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ALTERNATE CONDITIONS:

THE VARYING MAKEUP OF SOILS AND OCCURRENCE OF ROCK IN MANY MODOT DISTRICTS MAY REQUIRE CONSIDERABLE REDESIGN OF THE POST PLACEMENT BELOW GRADE FROM THAT SHOWN IN THESE DRAWINGS. THE BIDDER WILL BE RESPONSIBLE FOR OBTAINING ACCURATE INFORMATION FROM THE DISTRICTS FACILITIES MANAGER (I.E. DRILLINGS OR BORINGS INFORMATION 5'-0" DEEP AT EACH BUILDING CORNER AND AT LEAST ONE INTERMEDIATE SAMPLE TO THIS DEPTH ON THE LONG SIDES OF THE PROPOSED STRUCTURE) SO THAT THE BID WILL REFLECT ANY FOUNDATION REQUIREMENTS BEYOND THOSE SHOWN HERE. INFORMATION COULD INCLUDE PREVIOUS EXCAVATIONS THAT VERIFY FOOTING CONDITIONS THAT WILL BE ENCOUNTERED BY THIS CONTRACTOR.

MISSOURI DEPARTMENT OF TRANSPORTATION

Carrollton Mechanics & Cold Storage Building
Northwest District
215 South Mason, Carrollton, MO 64633
Carroll County

CODE REQUIREMENTS

BUILDING CODE - CURRENT IBC
MECHANICAL CODE - CURRENT N.E.C.
ELECTRICAL CODE - CURRENT N.E.C.

REQUIRED BUILDING ELEMENTS:

2 x 4 WALL GIRTS - #2 SYP OR EQUAL.
POSTS TO BE A MINIMUM OF 4'-0" BELOW GRADE IN COMPACTED SOIL.

FABRICATOR NOTES:

THESE DRAWINGS ARE FURNISHED AS A GUIDE TO BIDDERS IN SUBMITTING THE COMPLETE PACKAGE OF DETAILED DRAWINGS OF THEIR PROPOSED STRUCTURE TO BE SEALED BY AN ARCHITECT/ENGINEER. WHERE "AS REQUIRED" IS USED THE BIDDER MUST FURNISH A DETAILED DESCRIPTION OF THE BUILDING ELEMENT TO BE FURNISHED.

COVER SHEET

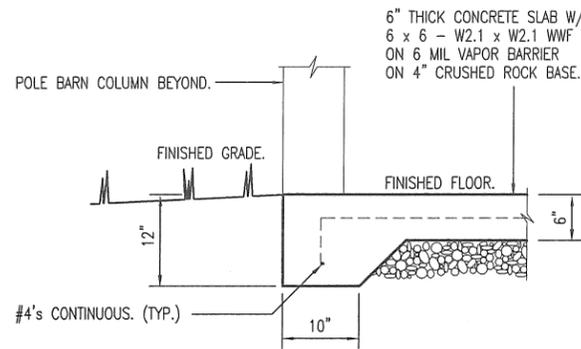
MISSOURI DEPARTMENT
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DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

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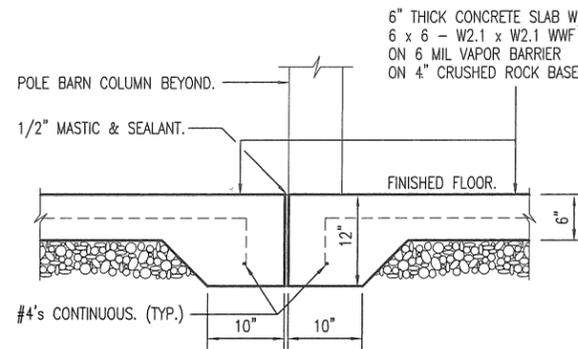
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CONCRETE NOTES

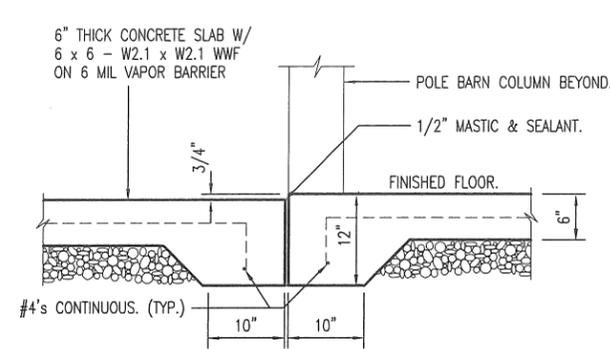
1. CONCRETE WORK SHALL BE EXECUTED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE AMERICAN CONCRETE INSTITUTE (A.C.I.) MANUAL OF CONCRETE PRACTICE.
2. FOUNDATION DESIGN IS BASED UPON AN ASSUMED SOIL BEARING CAPACITY OF 2,000 PSF. IF WET OR UNUSUAL SOIL CONDITIONS ARE ENCOUNTERED, NOTIFY THE DESIGNER AND CONSTRUCTION INSPECTOR BEFORE PROCEEDING WITH THE WORK.
3. IF CONDITIONS REQUIRING ROCK EXCAVATION ARE ENCOUNTERED, NOTIFY THE DESIGNER AND CONSTRUCTION INSPECTOR BEFORE PROCEEDING WITH THE WORK.
4. ALL CONCRETE SHALL BE TYPE 1 CEMENT WITH A COMPRESSIVE STRENGTH OF 4,000 PSI @ 28 DAYS AND NOT TO EXCEED 4" SLUMP.
5. FOUNDATION PIERS AND FOOTINGS SHALL BEAR A MINIMUM OF 12 INCHES INTO UNDISTURBED SOIL AND 36 INCHES MINIMUM BELOW FINISH GRADE.
6. DEFORMED STEEL REINFORCING BARS SHALL BE: #4 AND LARGER ASTM A615 GRADE 60.
7. SEE SPECIFICATION SECTION 03300 CONCRETE FOR ADDITIONAL INFORMATION.
8. CONCRETE EXPOSED TO THE EXTERIOR SHALL RECEIVE AIR ENTRAINMENT 6% +/- 2%.
9. PROVIDE CORNER REINFORCING BARS WITH 12" MINIMUM LAP EQUAL IN SIZE AND GRADE TO CONNECTING BARS.
10. EXTERIOR CONCRETE FLATWORK SHALL HAVE A LIGHT BROOM FINISH.
11. COORDINATE WORK OF OTHER TRADES REQUIRED TO BE INSTALLED IN, UNDER, OR THROUGH CONCRETE PRIOR TO PLACEMENT OF CONCRETE. INSTALL ALL ANCHORAGES AND SLEEVES REQUIRED FOR THE INSTALLATION OF WORK BY OTHER TRADES.
12. ENTIRE PERIMETER OF BUILDING TO RECEIVE 2" POLYISOCYANURATE RIGID INSULATION BOARD.
13. SAWED CONTROL JOINTS SHALL BE CLEANED FREE OF ALL DEBRIS AND FILLED WITH SEALANT. SEE SECTION 07900.
14. ALL EXPOSED INTERIOR CONCRETE FLOORS SHALL RECEIVE A CURING/SEALING FINISH PER SPECIFICATION SECTION 03346.
15. COPPER PIPING RUN THROUGH CONCRETE WORK SHALL BE RUN THROUGH PVC SLEEVES.
16. PROVIDE PRECAST TRENCH DRAIN & CATCH BASIN AS SPECIFIED. INSTALL AS RECOMMENDED BY THE MANUFACTURER. ACTUAL CONSTRUCTION AND INSTALLATION MAY REQUIRE SOME FIELD MODIFICATIONS. ANY DEVIATION FROM THE DRAWINGS AND SPECIFICATIONS SHALL HAVE PRIOR APPROVAL FROM THE ARCHITECT OR BUILDING INSPECTOR.
17. ALL CONCRETE STEM WALLS TO MONOLITHICALLY POURED.



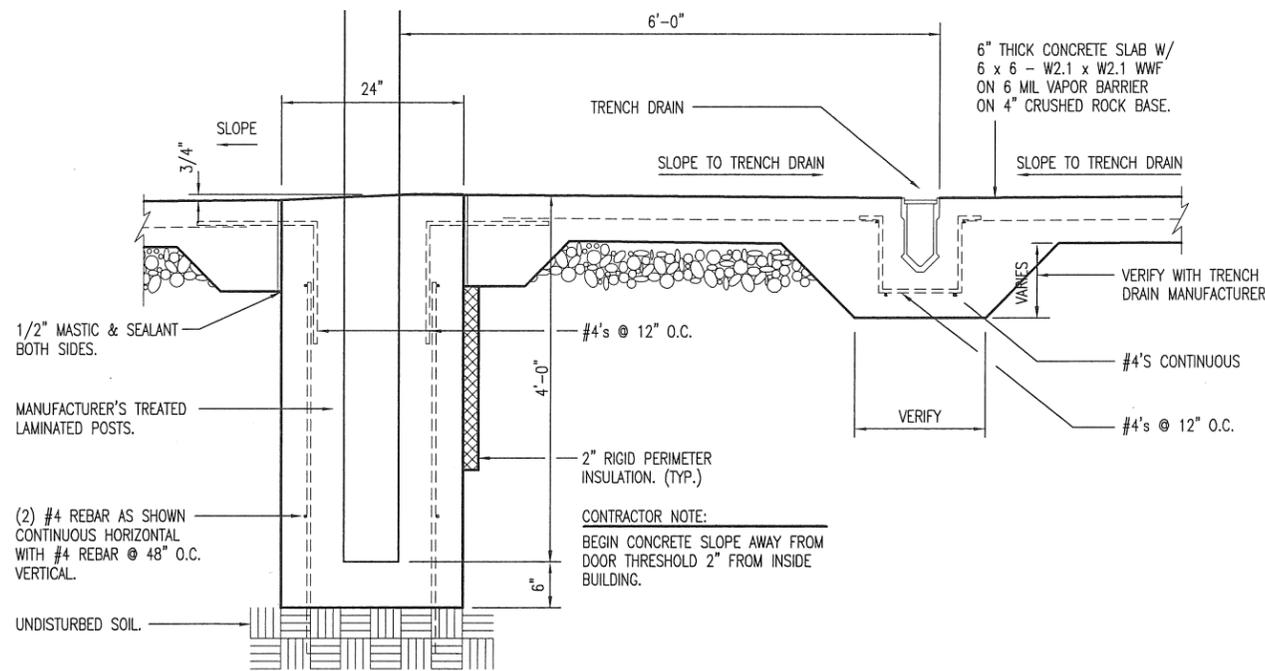
D
3
FLOOR SLAB EDGE
SCALE: 1/2" = 1'-0"



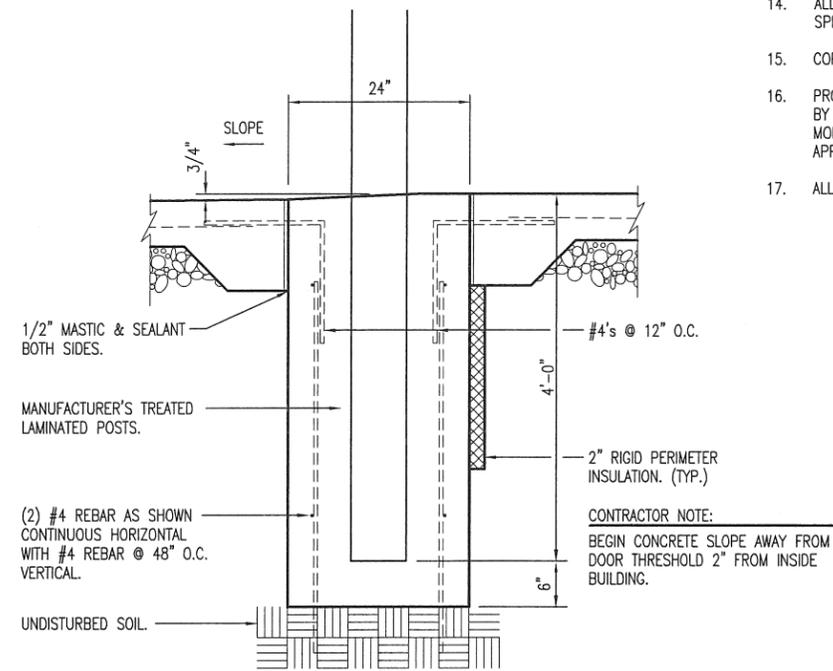
E
3
DOOR THRESHOLD
SCALE: 1/2" = 1'-0"



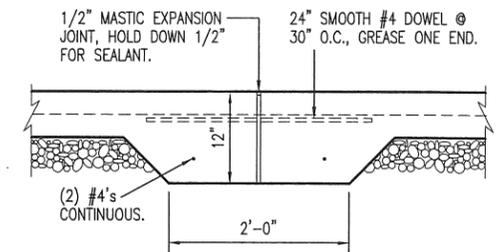
F
3
DOOR THRESHOLD
SCALE: 1/2" = 1'-0"



101 MECHANICS
A
3
GRADE BEAM
SCALE: 1/2" = 1'-0"



105 COLD STORAGE
B
3
GRADE BEAM
SCALE: 1/2" = 1'-0"



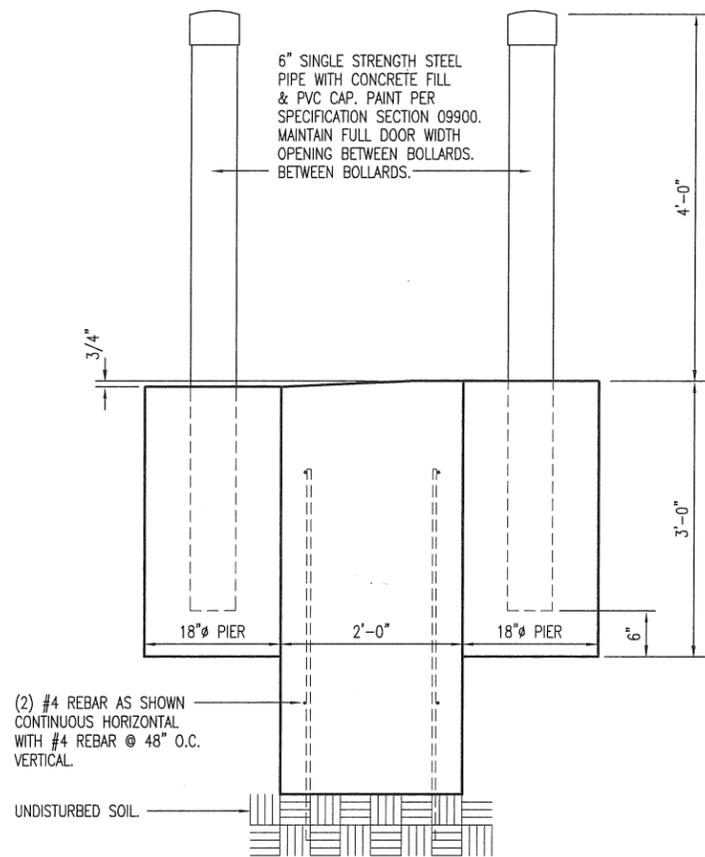
C
3
EXPANSION JOINT
SCALE: 1/2" = 1'-0"

FOUNDATION DETAILS

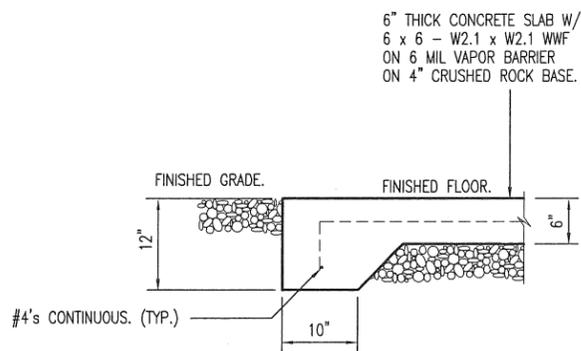
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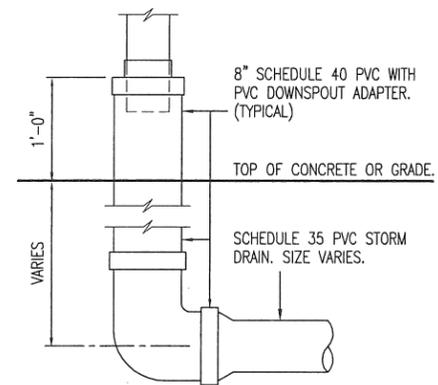
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101 MECHANIC
A BOLLARD ELEVATION
 4 SCALE: 1/2" = 1'-0"



B FLOOR SLAB EDGE
 4 SCALE: 1/2" = 1'-0"



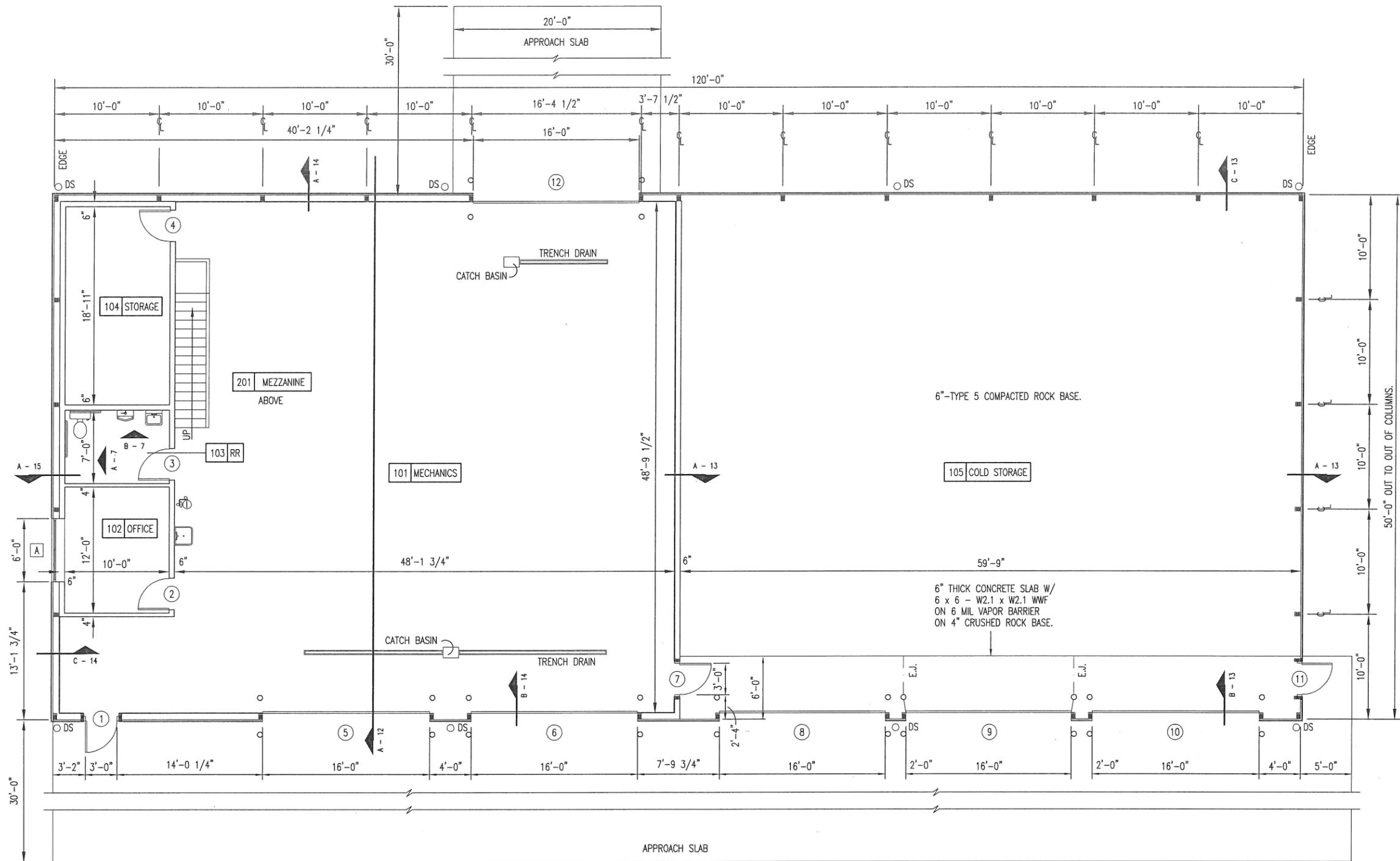
DOWNSPOUT
C ADAPTER
 4 SCALE: N.T.S.

FOUNDATION DETAILS

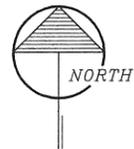
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A
5 FLOOR PLAN
SCALE: 3/32" = 1'-0"



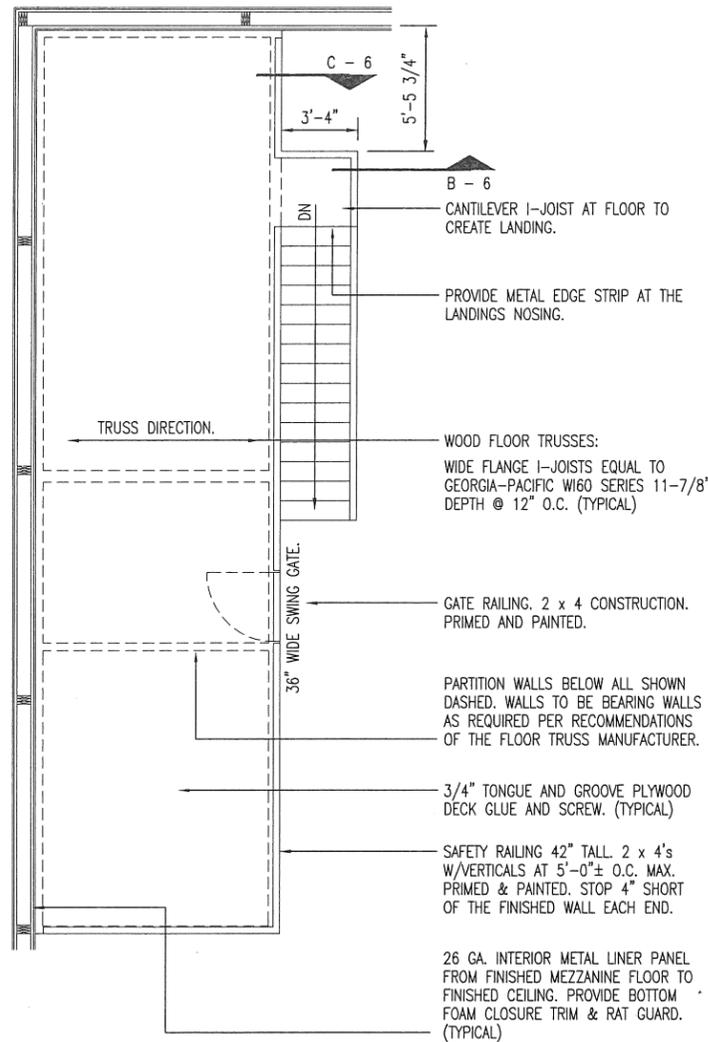
CONTRACTOR NOTE:
COLUMNS TO BE LAMINATED
TREATED (3) 2 x 8's. (TYP.)

FLOOR PLAN

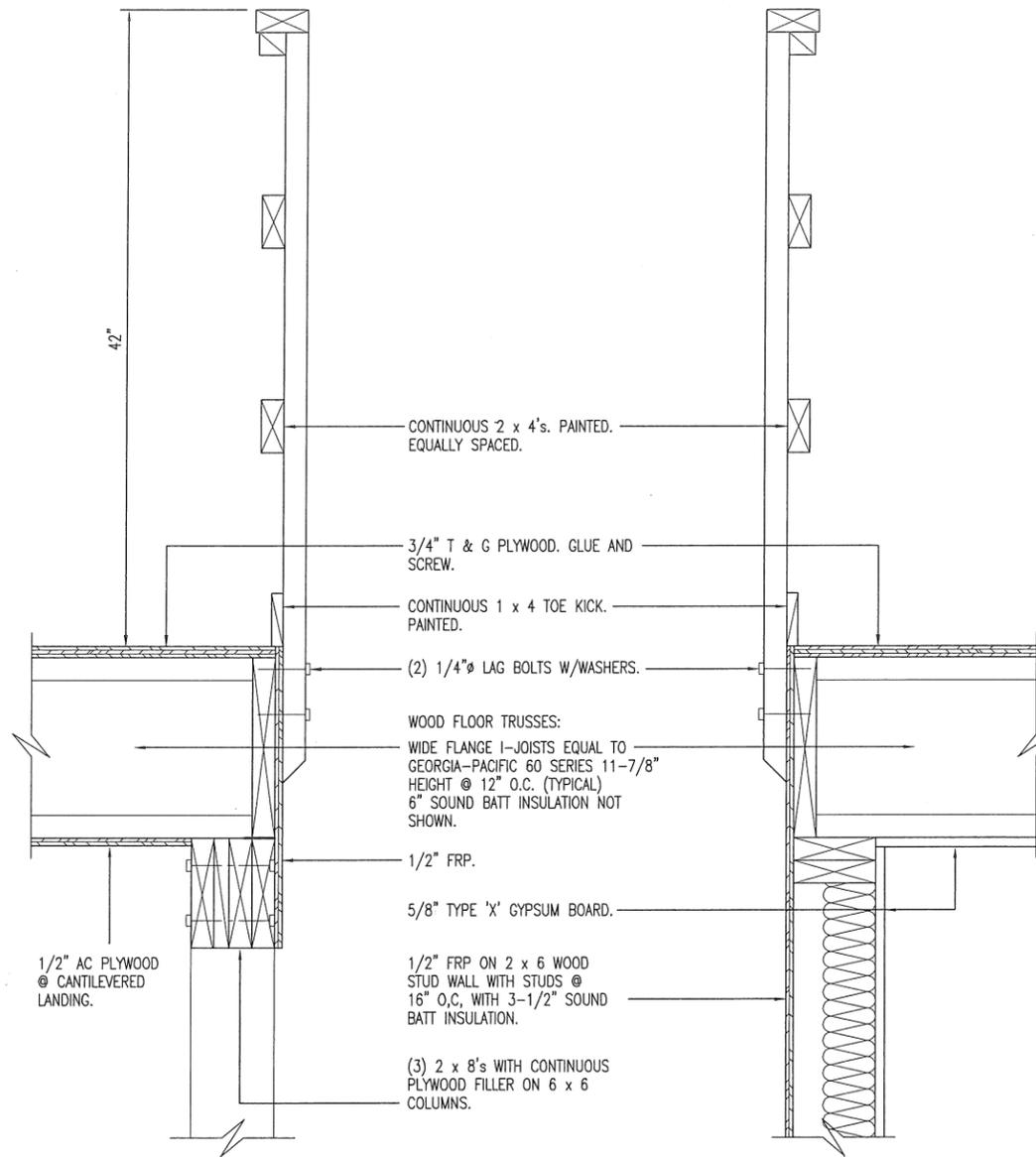
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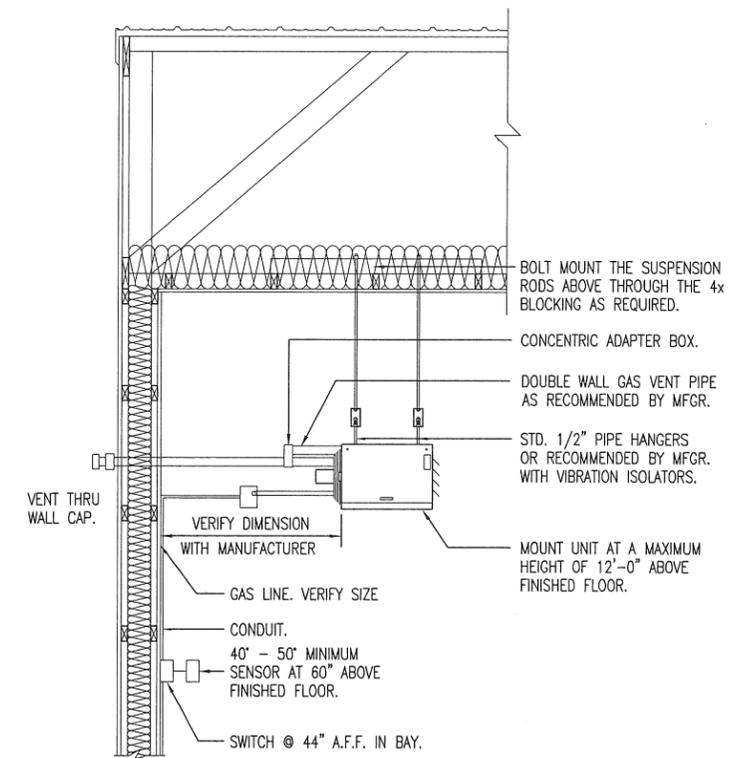


A MEZZANINE PLAN
6 SCALE: 1/8" = 1'-0"



B DETAIL
6 SCALE: 1" = 1'-0"

C DETAIL
6 SCALE: 1" = 1'-0"



D UNIT HEATER INSTALLATION
6 NOT TO SCALE

MEZZANINE PLAN

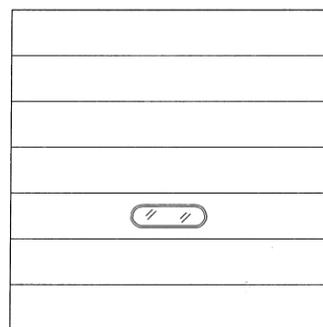
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DOOR SCHEDULE

NO.	SIZE	SWING	DR. TYPE	FRM. TYPE	DETAIL	DEPTH	HDWR. GRP.
1	3'-0" x 7'-0" x 1-3/4"	LHR	A	I	F-10	6-1/2"	1
2	3'-0" x 7'-0" x 1-3/4"	LH	C	I	H-10	7-5/8"	3
3	3'-0" x 7'-0" x 1-3/4"	LH	B	I	H-10	7-5/8"	2
4	3'-0" x 7'-0" x 1-3/4"	RH	B	I	E-10	7-1/2"	3
5	16'-0" x 14'-0" x 2"	-	D	-	A & C-10	-	-
6	16'-0" x 14'-0" x 2"	-	D	-	A & C-10	-	-
7	3'-0" x 7'-0" x 1-3/4"	RHR	A	I	C-11	6-1/2"	1
8	16'-0" x 14'-0" x 2"	-	D	-	B & G-10	-	-
9	16'-0" x 14'-0" x 2"	-	D	-	B & G-10	-	-
10	16'-0" x 14'-0" x 2"	-	D	-	B & G-10	-	-
11	3'-0" x 7'-0" x 1-3/4"	RHR	A	I	D-10	6-1/2"	1
12	16'-0" x 14'-0" x 2"	-	D	-	A & G-10	-	-



16'-0" x 14'-0" x 2"
2" THICK, R-17.5, INSULATED
PREFINISHED .016" METAL
GARAGE DOOR WITH ONE
INSULATED GLASS VIEW
WINDOW. 26 GA. STEEL
BACK COVER. WHITE BAKED
ON POLYESTER TOP COAT
PAINT ON BOTH SIDES.
(TYPICAL)

TYPE D

3'-0" x 7'-0" x 1-3/4"
INSULATED HOLLOW METAL
DOOR W/11" x 11" x 3/4"
INSUL. TEMPERED GLASS.
REINFORCED FOR CLOSER.

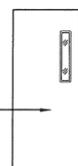


TYPE A

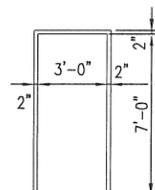


TYPE B

3'-0" x 7'-0" x 1-3/4"
HOLLOW METAL DOOR W/
1/4" TEMPERED GLASS.
SIZE 4" x 25". PAINTED.



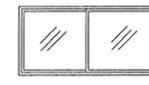
TYPE C



TYPE I

16 GA. WELDED
H.M. FRAME
PAINTED.

WINDOW SCHEDULE



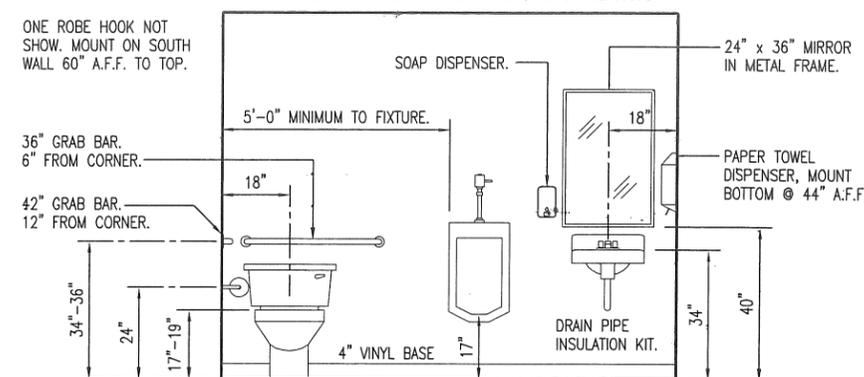
6'-0" x 3'-0"
ALUMINUM DOUBLE
HORIZONTAL SLIDER
WITH SECURITY SCREEN.

SEE DETAILS
A & B-11.



SILL HEIGHT:
48" A.F.F.

PROVIDE BLOCKING FOR ALL ACCESSORIES
COMPLY WITH 2010 ADA MOUNTING HEIGHTS



REST ROOM ELEVATION

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

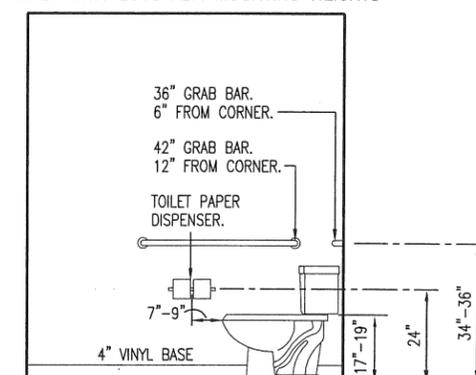
FINISH SCHEDULE

NO.	ROOM	FLOOR	WALLS										BASE	CEILING						
			3/4" T & G PLYWOOD.	CURE AND SEALER ON CONCRETE.	6" COMPACTED TYPE 5 ROCK.	26 GA. EXTERIOR PANELS.	26 GA. INTERIOR PANELS.	1/2" FRP ON EXTERIOR OF OFFICE RR OR STORAGE.	5/8" GYPSUM BOARD.	5/8" GREEN GYP. BD.	PAINTED ON PLYWOOD.	PAINT.			26 GA. INTERIOR PANEL WEST WALL.	1/2" AC PLYWOOD ON EAST WALL PAINTED.	4" VINYL.	4" VINYL ON EXTERIOR OF OFFICE RR OR MECHANICAL.	NONE	26 GA. CEILING PANELS.
101	MECHANICS																			
102	OFFICE																			
103	REST ROOM (RR)																			
104	STORAGE																			
105	COLD STORAGE																			
201	MEZZANINE																			

HVAC SCHEDULE

SYM.	UNIT	MANUFACTURER	BTU OUTPUT	FUEL	VOLTAGE	REMARKS
A	36" X 36" SHUTTER MOUNT EXHAUST FAN W/WEATHERHOOD	DAYTON 1HLB6 & 1WBW2 OR EQUAL 6.4 AMPS	6,480 CFM	ELECTRIC	120	COMMERCIAL TYPE BELT DRIVE WALL EXHAUST FAN INCLUDING OSHA GUARD AND SHUTTER.
B	MOTORIZED DAMPER WITH WEATHERHOOD	DAYTON MODEL 3C728 & 1WBW1 OR EQUAL .37 AMPS	--	ELECTRIC	115	30" MEDIUM GRADE, MOTORIZED, GALVANIZED STEEL DAMPER WITH 1HP MOTOR. WIRE TO OPEN WHEN EXHAUST FAN IS TURNED ON.
C	GAS FIRED UNIT HEATER	REZNR MODEL UDAP 200 OR EQUAL	166,000	PROPANE	115	SINGLE BURNER COMBUSTION, 4.6 AMPS, DITECT SPARK IGNITION, 100% LOCK-OUT & CL-1 STANDARD HEATING ONLY THERMOSTAT.
D	CARBON MONOXIDE EXHAUST SYSTEM	CAR-MON MODELS SERIES BA AND CMW-9 OR EQUAL	--	ELECTRIC	115	INCLUDE HOSE, BALANCER, DUCTING, EXTERIOR WALL HOOD AND FLANGE MOUNTED EXHAUST FAN, 3/4 HP MOTOR, 13.8 AMPS.
E	PTAC UNIT	FRIEDRICH MODEL PDH07K OR EQUAL	COOL 6.3K HEAT 7.7K	ELECTRIC	208/230	EER 12. INCLUDE PDXWSA WALL SLEEVE, PDXDEA LATERAL DUCT KIT & PXGA EXTERIOR GRILL.

PROVIDE BLOCKING FOR ALL ACCESSORIES
COMPLY WITH 2010 ADA MOUNTING HEIGHTS



REST ROOM ELEVATION

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

GENERAL NOTES:

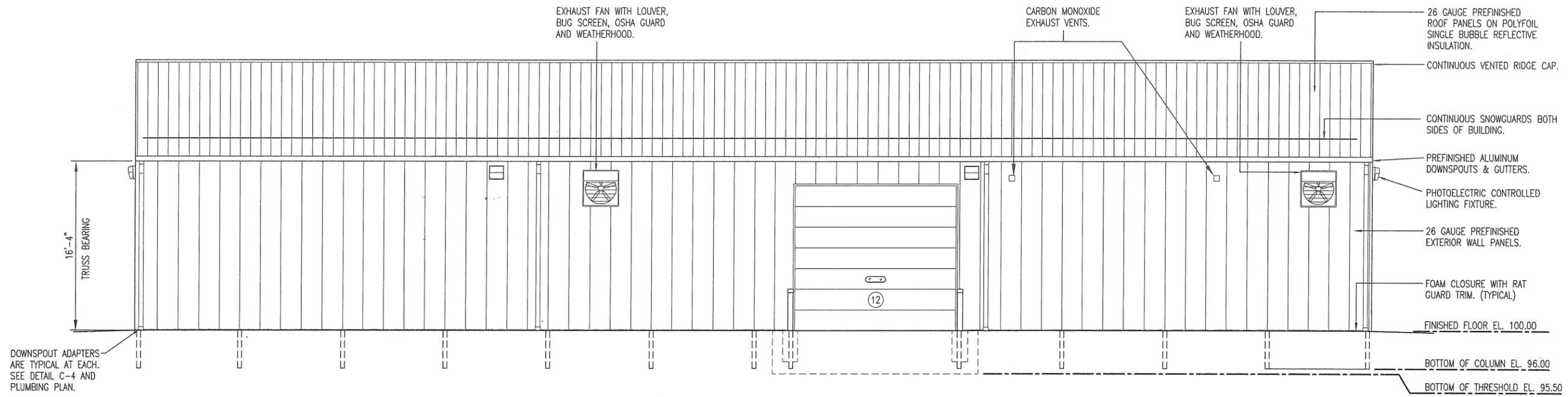
BUILDING MANUFACTURER TO FURNISH ALL NECESSARY FLASHING AND TRIM TO PROVIDE A NEAT, WEATHERPROOF FIT AT ALL DOORS, COLUMNS AND ANY LOCATION WHERE THE METAL PANELS MAY BE CUT.

SCHEDULES

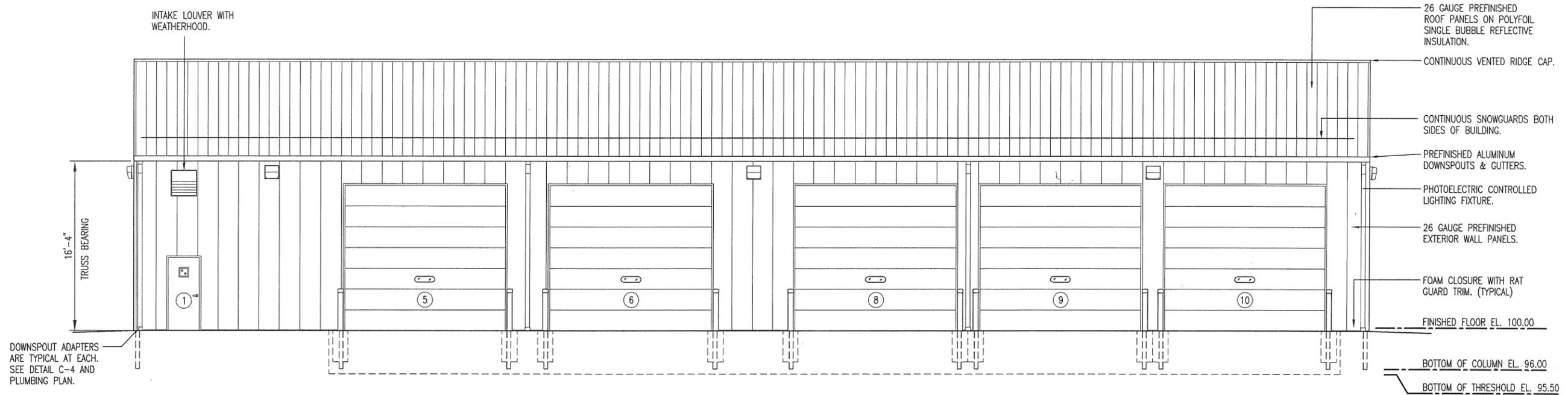
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B
8
NORTH ELEVATION
 SCALE: 3/32" = 1'-0"



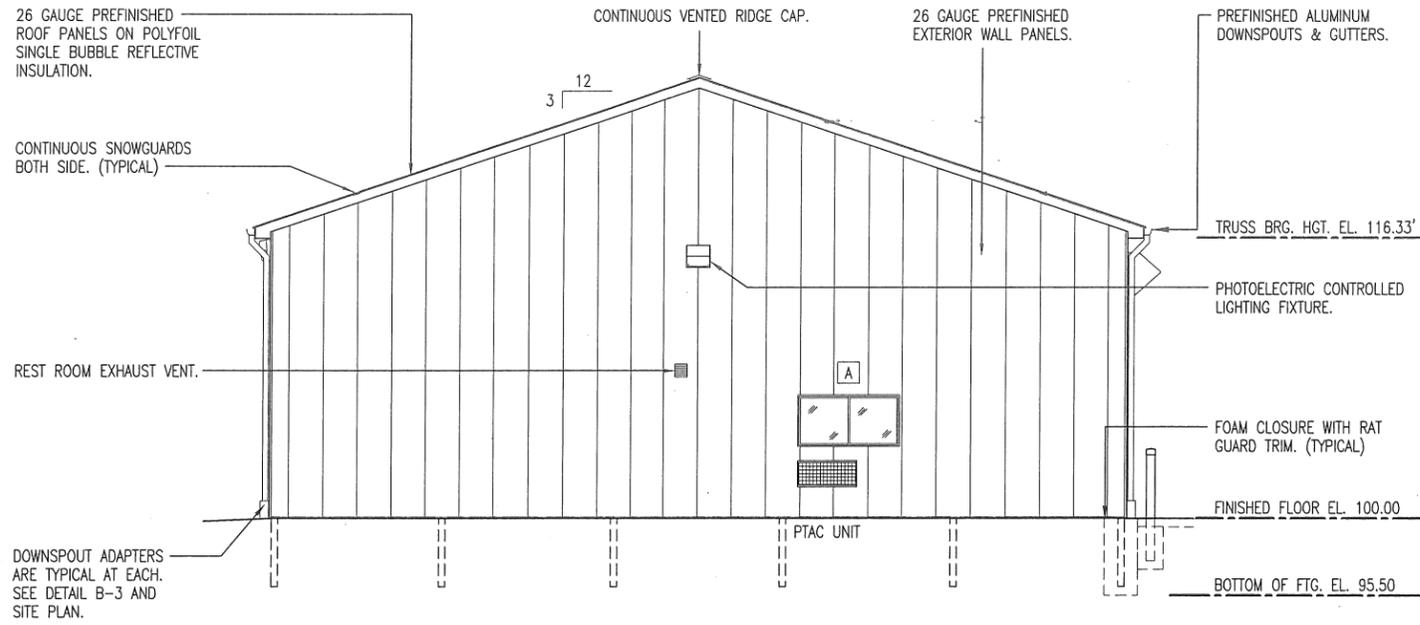
A
8
SOUTH ELEVATION
 SCALE: 3/32" = 1'-0"

NORTH & SOUTH ELEVATIONS

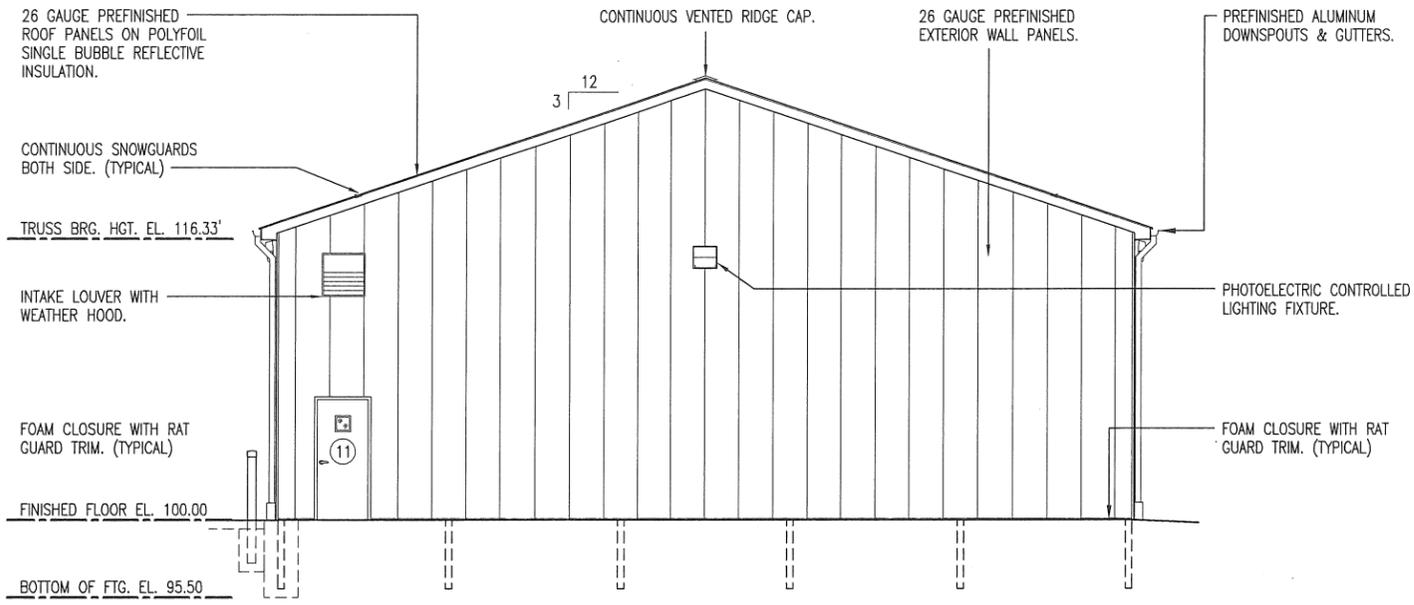
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B
9
WEST ELEVATION
 SCALE: 3/32" = 1'-0"
 INTAKE LOUVER WITH WEATHERHOOD.



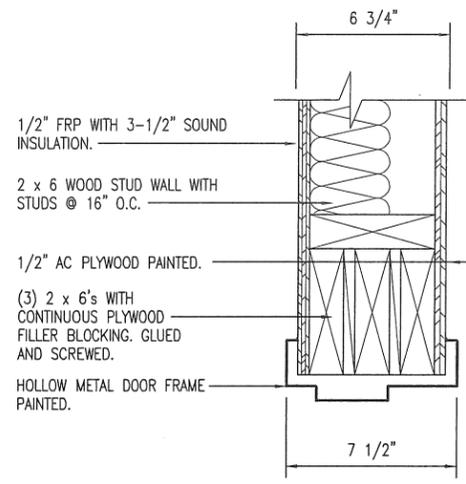
A
9
EAST ELEVATION
 SCALE: 3/32" = 1'-0"

EAST & WEST ELEVATIONS

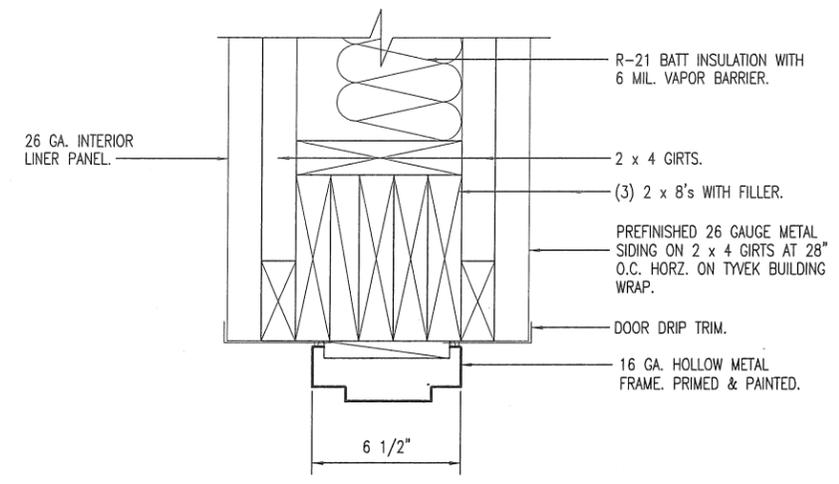
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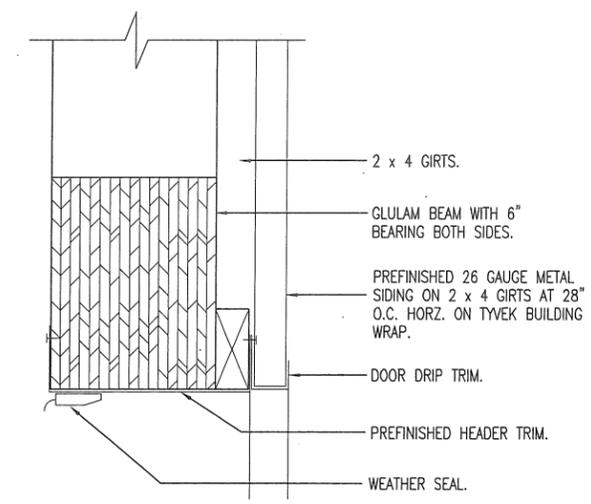
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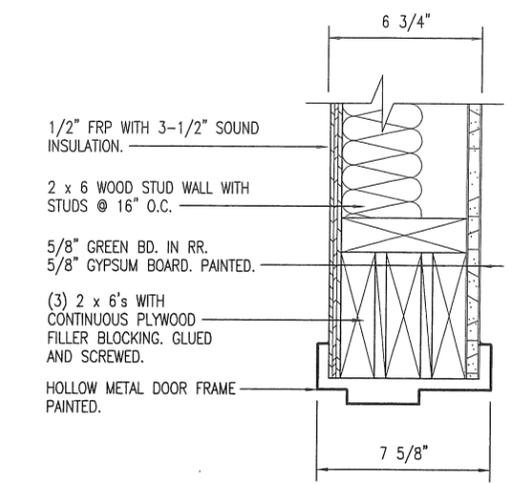
E DOOR HEAD
 JAMB SIMILAR
 SCALE: 1-1/2" = 1'-0"



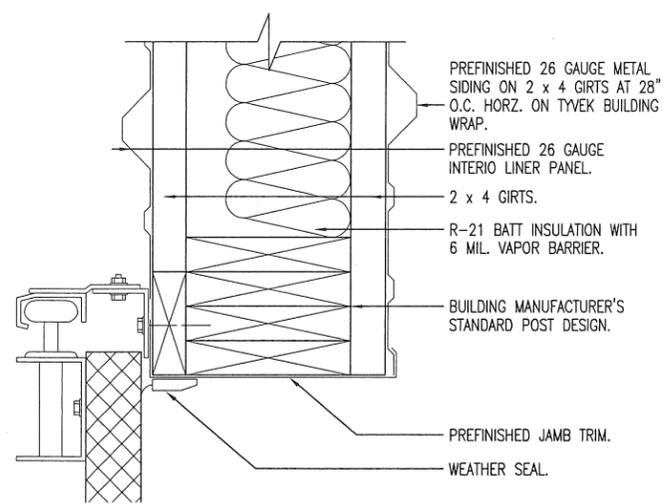
F DOOR HEADER/JAMB
 SCALE: 1-1/2" = 1'-0"



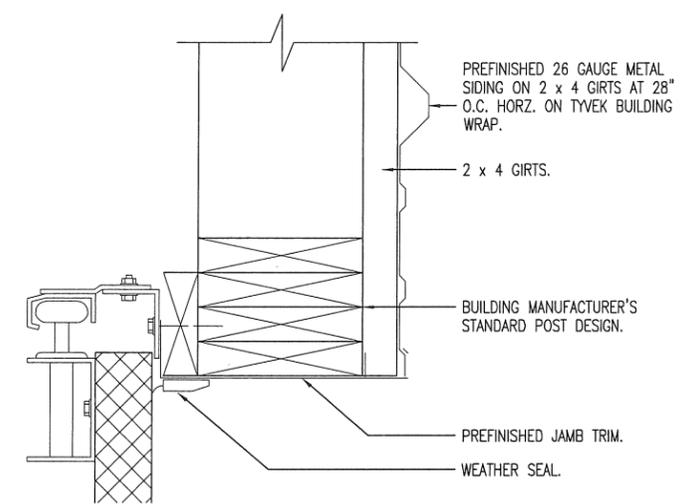
G GARAGE DOOR HEAD
 SCALE: 1-1/2" = 1'-0"



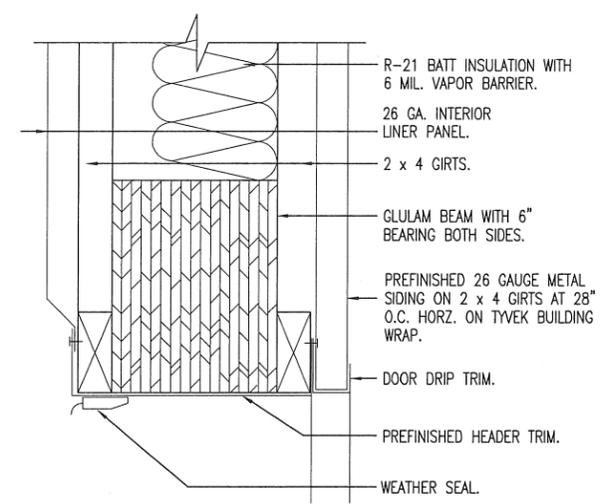
H DOOR HEAD
 JAMB SIMILAR
 SCALE: 1-1/2" = 1'-0"



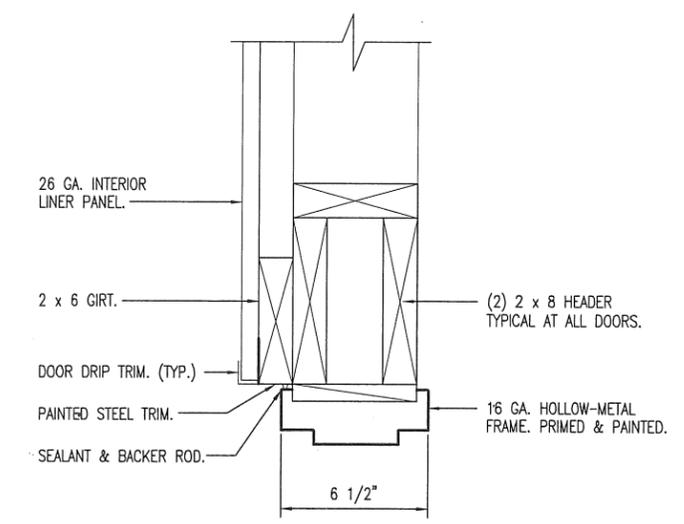
A GARAGE DOOR JAMB
 SCALE: 1-1/2" = 1'-0"



B GARAGE DOOR JAMB
 SCALE: 1-1/2" = 1'-0"



C GARAGE DOOR HEAD
 SCALE: 1-1/2" = 1'-0"



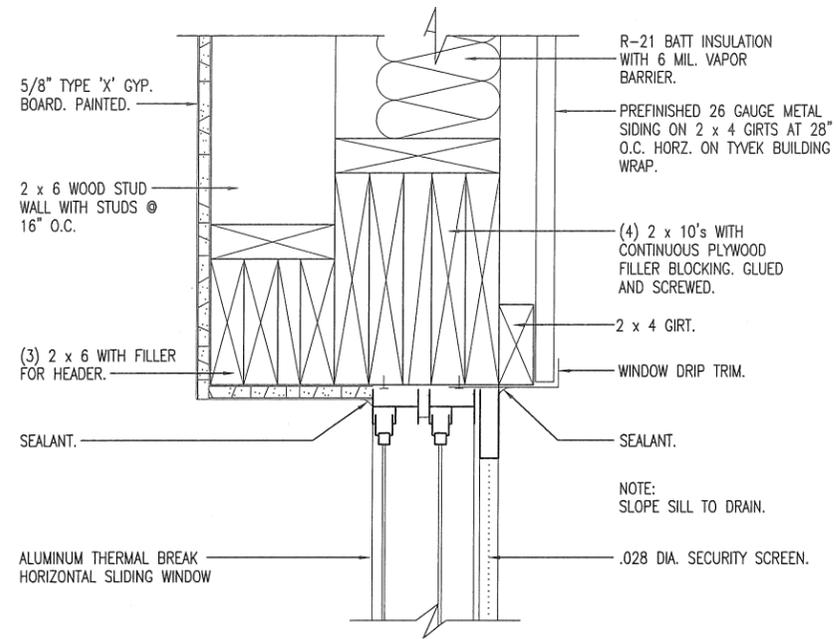
D DOOR HEADER/JAMB
 SCALE: 1-1/2" = 1'-0"

HEAD & JAMB DETAILS

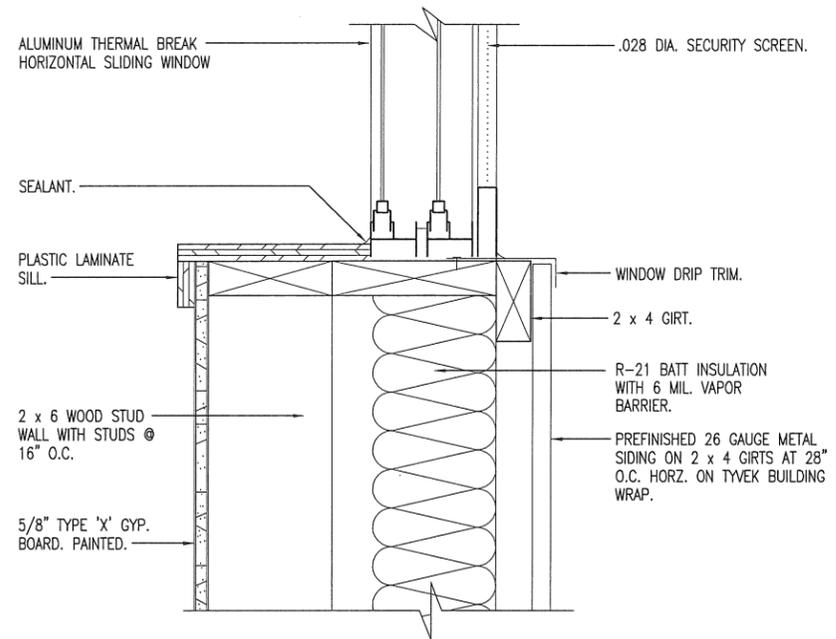
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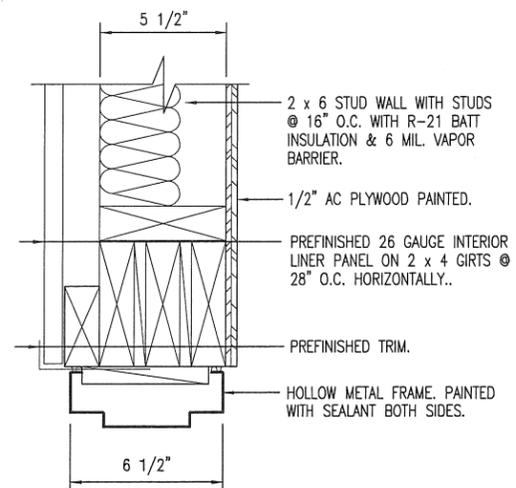
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B WINDOW HEAD
 11 SCALE: 1-1/2" = 1'-0"



A WINDOW SILL
 11 SCALE: 1-1/2" = 1'-0"



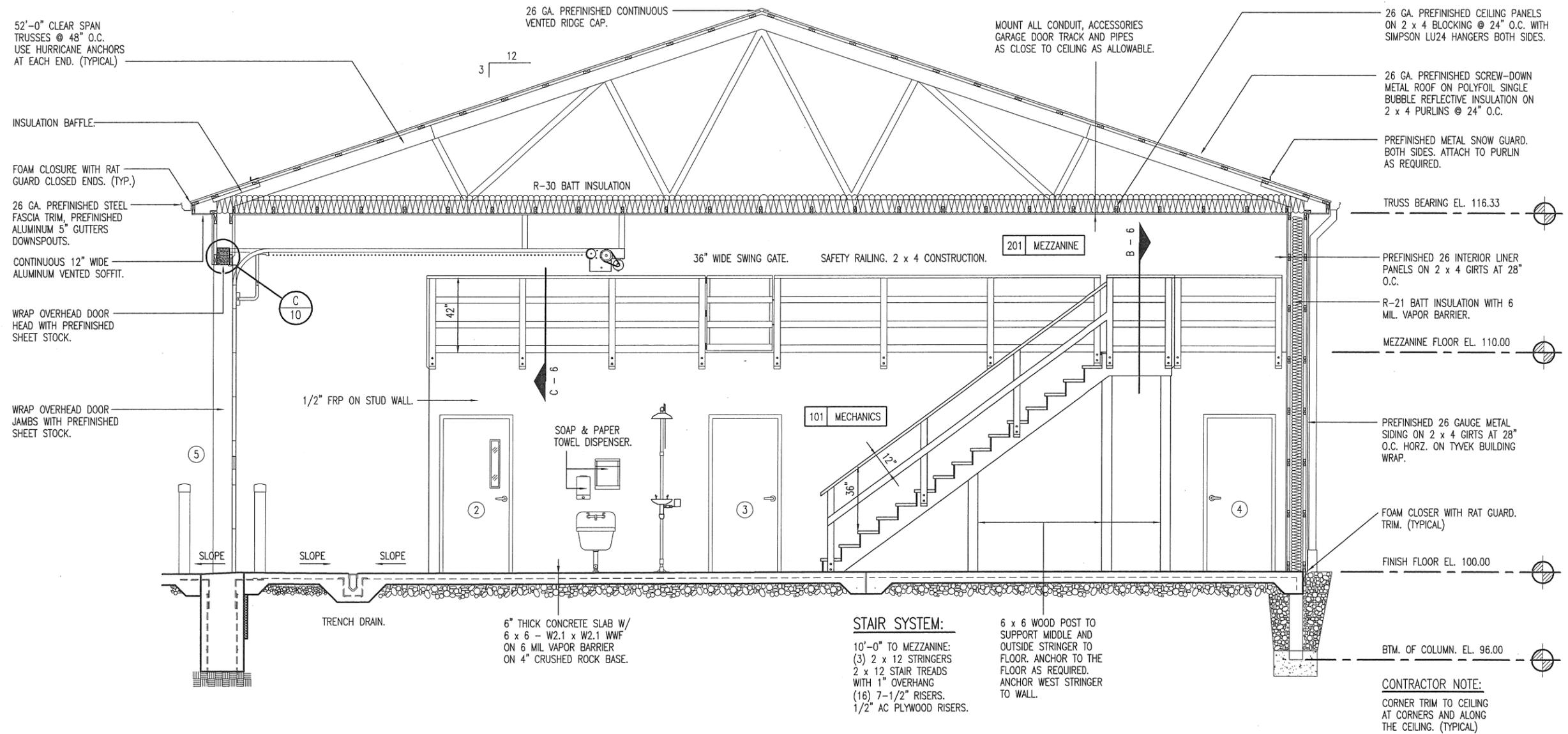
C JAMB SIMILAR DOOR HEAD
 11 SCALE: 1-1/2" = 1'-0"

HEAD & JAMB DETAILS

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52'-0" CLEAR SPAN
TRUSSES @ 48" O.C.
USE HURRICANE ANCHORS
AT EACH END. (TYPICAL)

INSULATION BAFFLE.

FOAM CLOSURE WITH RAT
GUARD CLOSED ENDS. (TYP.)

26 GA. PREFINISHED STEEL
FASCIA TRIM, PREFINISHED
ALUMINUM 5" GUTTERS
DOWNSPOUTS.

CONTINUOUS 12" WIDE
ALUMINUM VENTED SOFFIT.

WRAP OVERHEAD DOOR
HEAD WITH PREFINISHED
SHEET STOCK.

WRAP OVERHEAD DOOR
JAMBS WITH PREFINISHED
SHEET STOCK.

26 GA. PREFINISHED CONTINUOUS
VENTED RIDGE CAP.

MOUNT ALL CONDUIT, ACCESSORIES
GARAGE DOOR TRACK AND PIPES
AS CLOSE TO CEILING AS ALLOWABLE.

26 GA. PREFINISHED CEILING PANELS
ON 2 x 4 BLOCKING @ 24" O.C. WITH
SIMPSON LU24 HANGERS BOTH SIDES.

26 GA. PREFINISHED SCREW-DOWN
METAL ROOF ON POLYFOIL SINGLE
BUBBLE REFLECTIVE INSULATION ON
2 x 4 PURLINS @ 24" O.C.

PREFINISHED METAL SNOW GUARD.
BOTH SIDES. ATTACH TO PURLIN
AS REQUIRED.

TRUSS BEARING EL. 116.33

PREFINISHED 26 INTERIOR LINER
PANELS ON 2 x 4 GIRTS AT 28"
O.C.

R-21 BATT INSULATION WITH 6
MIL. VAPOR BARRIER.

MEZZANINE FLOOR EL. 110.00

PREFINISHED 26 GAUGE METAL
SIDING ON 2 x 4 GIRTS AT 28"
O.C. HORZ. ON TYVEK BUILDING
WRAP.

FOAM CLOSURE WITH RAT GUARD.
TRIM. (TYPICAL)

FINISH FLOOR EL. 100.00

BTM. OF COLUMN. EL. 96.00

CONTRACTOR NOTE:
CORNER TRIM TO CEILING
AT CORNERS AND ALONG
THE CEILING. (TYPICAL)

BUILDING SECTION

SCALE: 3/16" = 1'-0"

STAIR SYSTEM:

10'-0" TO MEZZANINE:
(3) 2 x 12 STRINGERS
2 x 12 STAIR TREADS
WITH 1" OVERHANG
(16) 7-1/2" RISERS.
1/2" AC PLYWOOD RISERS.

6 x 6 WOOD POST TO
SUPPORT MIDDLE AND
OUTSIDE STRINGER TO
FLOOR. ANCHOR TO THE
FLOOR AS REQUIRED.
ANCHOR WEST STRINGER
TO WALL.

6" THICK CONCRETE SLAB W/
6 x 6 - W2.1 x W2.1 WWF
ON 6 MIL VAPOR BARRIER
ON 4" CRUSHED ROCK BASE.

TRENCH DRAIN.

SLOPE SLOPE SLOPE

1/2" FRP ON STUD WALL.

C 10

5

2

3

4

101 MECHANICS

201 MEZZANINE

36" WIDE SWING GATE. SAFETY RAILING. 2 x 4 CONSTRUCTION.

R-30 BATT INSULATION

12

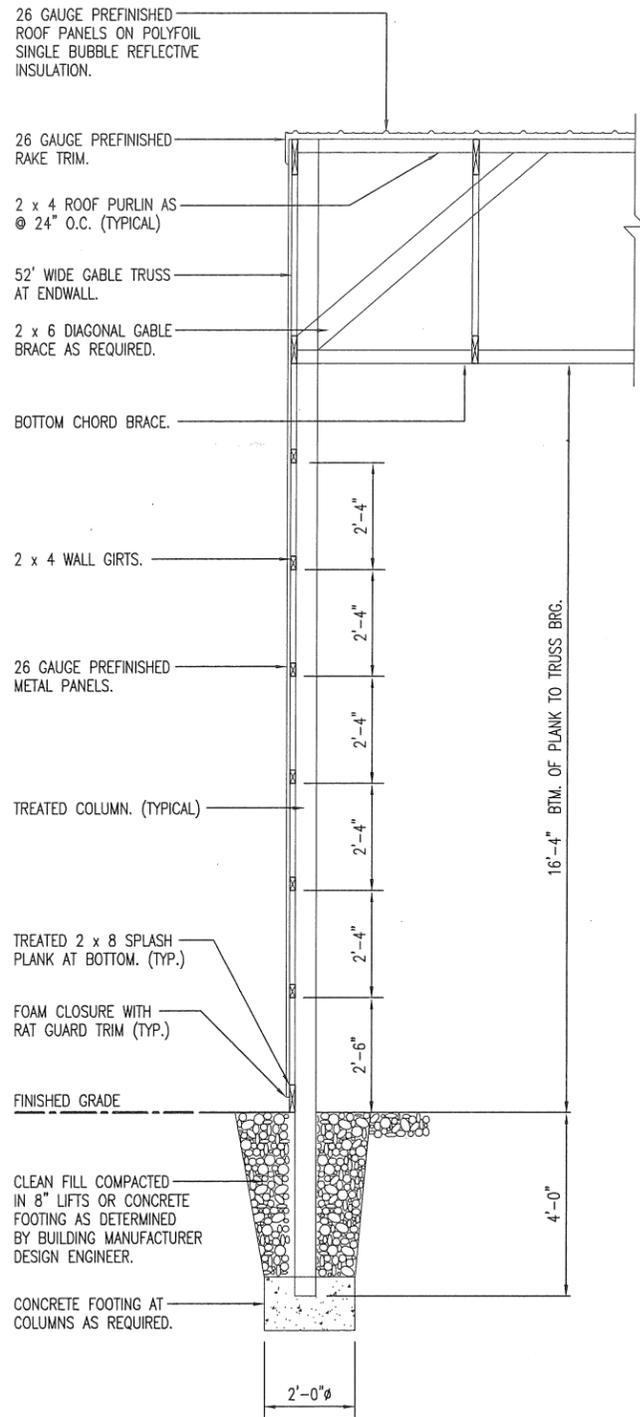
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12

BUILDING SECTION

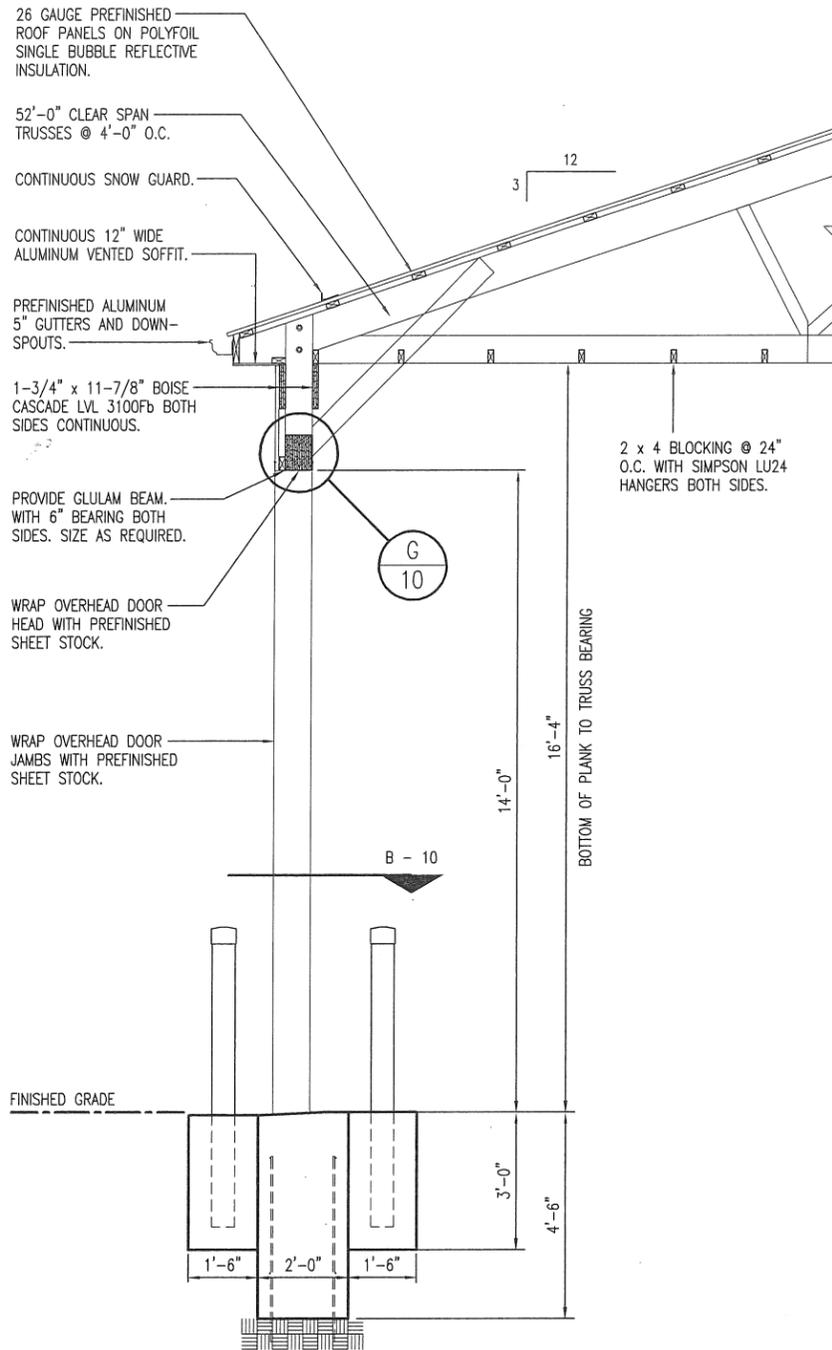
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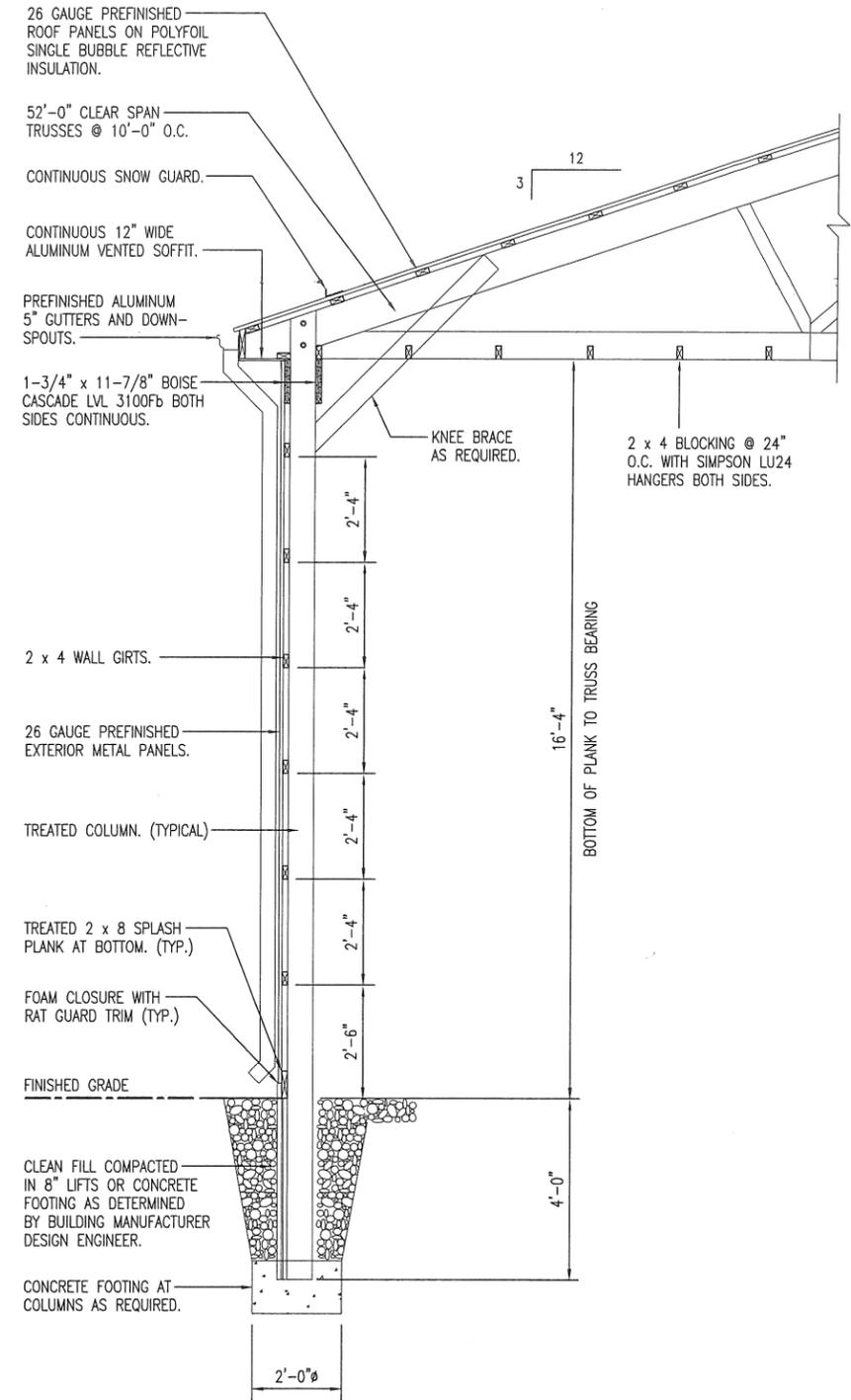
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A ENDWALL SECTION
 13 SCALE: 1/4" = 1'-0"



B OPEN OVERHEAD DOOR SECTION
 13 SCALE: 1/4" = 1'-0"



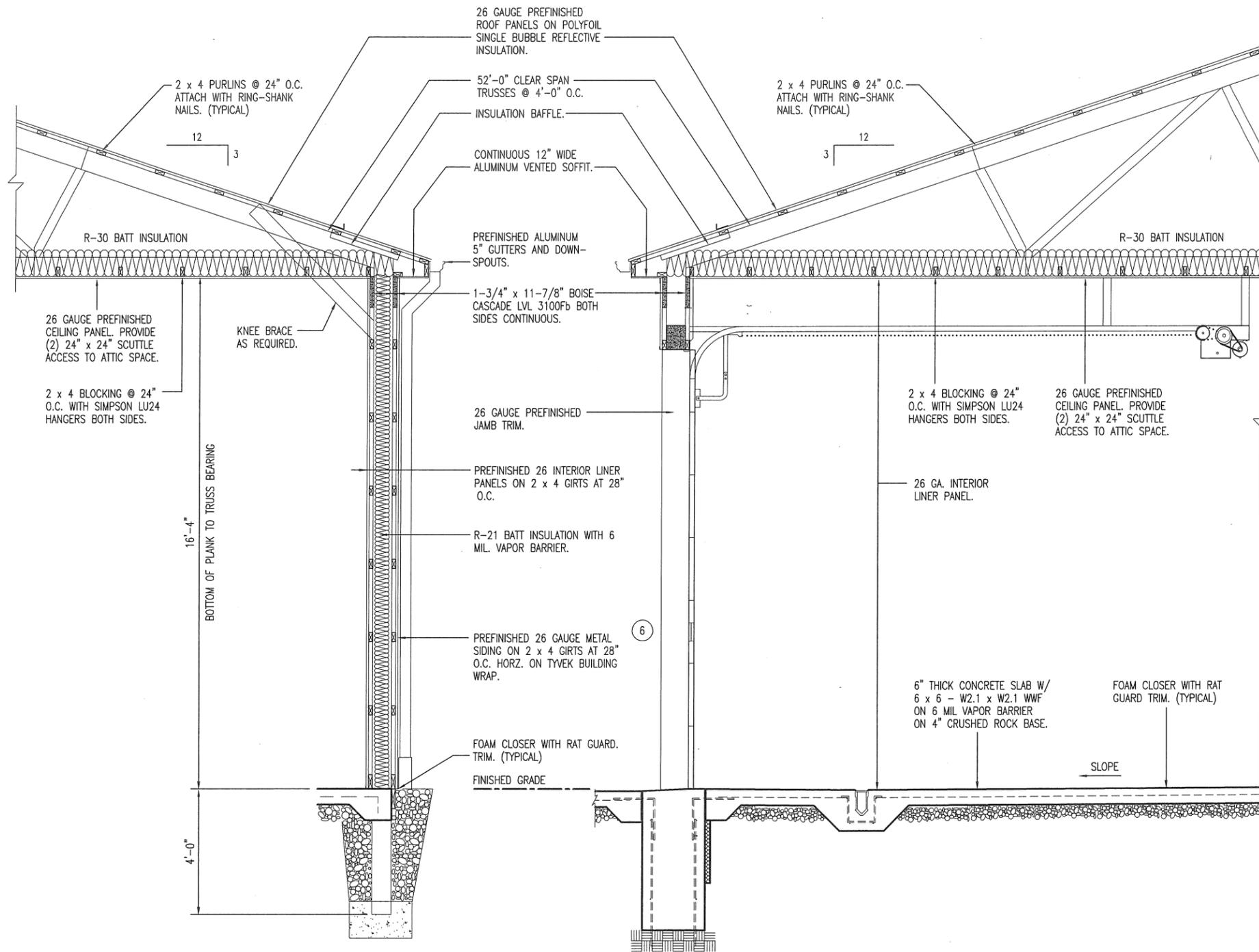
C SIDEWALL SECTION
 13 SCALE: 1/4" = 1'-0"

WALL SECTIONS

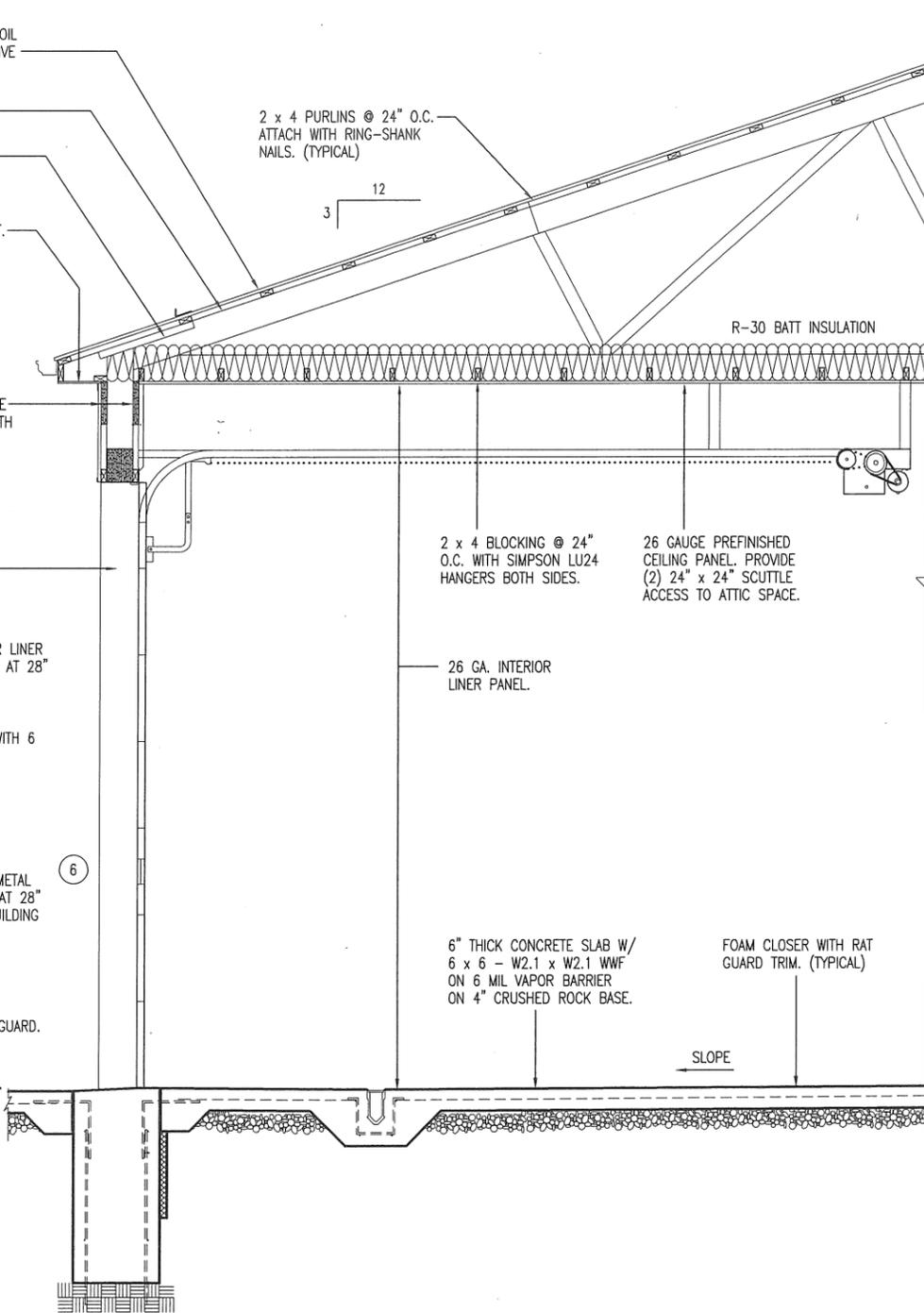
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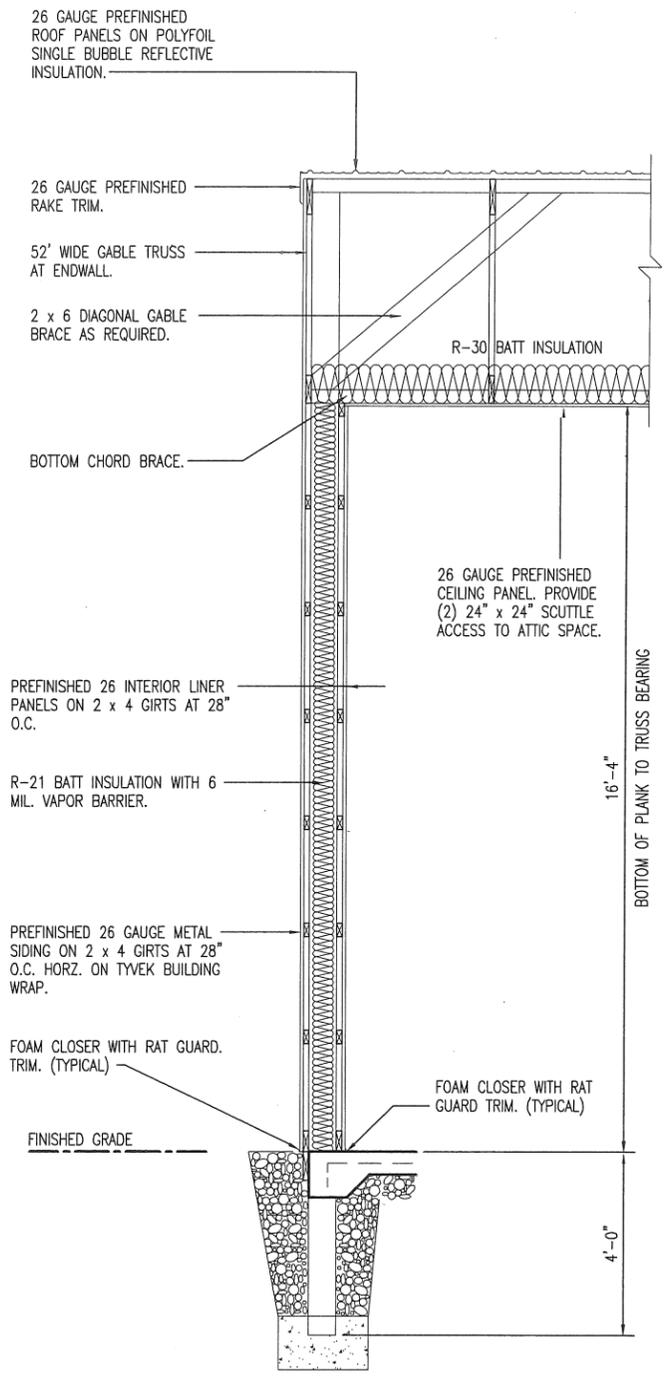
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A **SIDEWALL SECTION**
 14 SCALE: 1/4" = 1'-0"



B **OVERHEAD DOOR SECTION**
 14 SCALE: 1/4" = 1'-0"



C **ENDWALL SECTION**
 14 SCALE: 1/4" = 1'-0"

WALL SECTIONS

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ROOF FRAMING NOTES

1. DESIGN LOADING FOR ROOF TRUSSES SHALL MEET THE FOLLOWING CRITERIA:

ROOF LIVE LOAD	25 PSF
ROOF DEAD LOAD	4 PSF
BOTTOM CHORD DEAD LOAD	5 PSF
EARTHQUAKE	ZONE 1, LATEST EDITION IBC
WIND	90 MPH, EXPOSURE B
DEFLECTION	L/360
SPACING	AS REQUIRED.

2. TRUSS DESIGN SUBMITTALS SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MISSOURI.

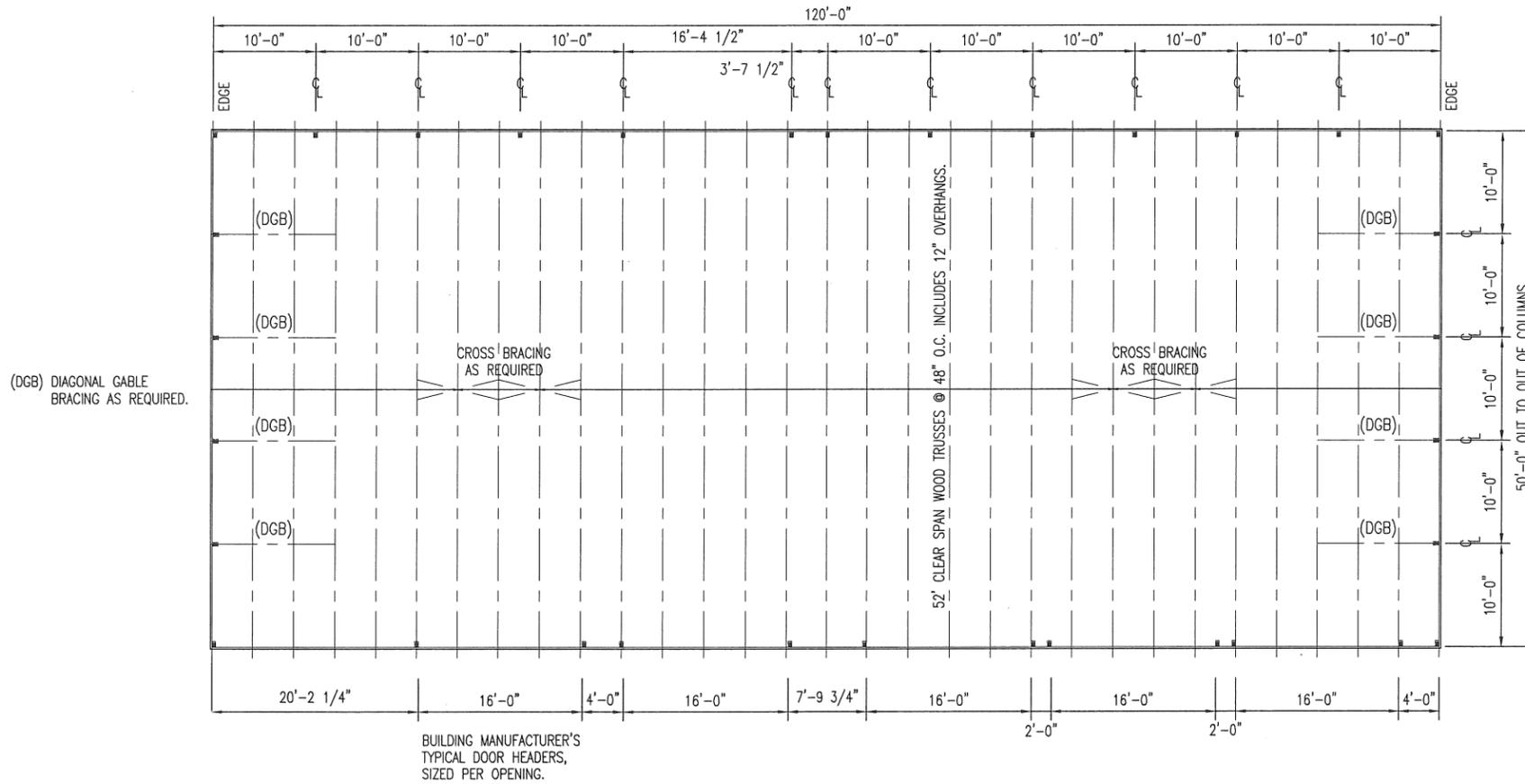
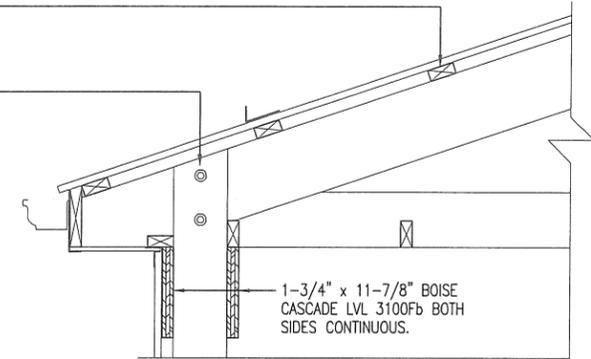
3. ROOF TRUSSES AND BOTTOM CHORDS 2x's SHALL BE ANCHORED TO THE TOP PLATE OF INTERIOR LOAD BEARING WALLS WITH SEISMIC AND HURRICANE ANCHORS EQUAL TO SIMPSON STRONG TIE #H1 ANCHORS WHEN ENCOUNTERED.

4. ROOF TRUSSES TO BE EACH CENTERED IN A POCKET WHICH IS THE DEPTH OF THE BOTTOM CHORD, MINIMUM, ON THE BACK WALL LAMINATED 2x POST(S) THAT ARE 10'-0" O.C. (TYPICAL) SEE DETAIL B-16.

2 x 4 PURLINS @ 24" O.C. ATTACH WITH RING-SHANK NAILS.

TRUSS SECURED IN COLUMN POCKET WITH (2) 1/2" x 5-1/2" M BOLTS & (8) 16d THS NAILS. TRUSS SITS IN CENTER OF (3) LAMINATED 2 x 6's. OR (3) 2 x 8's [VERIFY] USE (8) 16d THS NAILS. TYPICAL AT BOTH ENDS OF TRUSS.

B TRUSS POCKET
16 SCALE: 1/2" = 1'-0"



A ROOF FRAMING PLAN
16 SCALE: 1/16" = 1'-0"

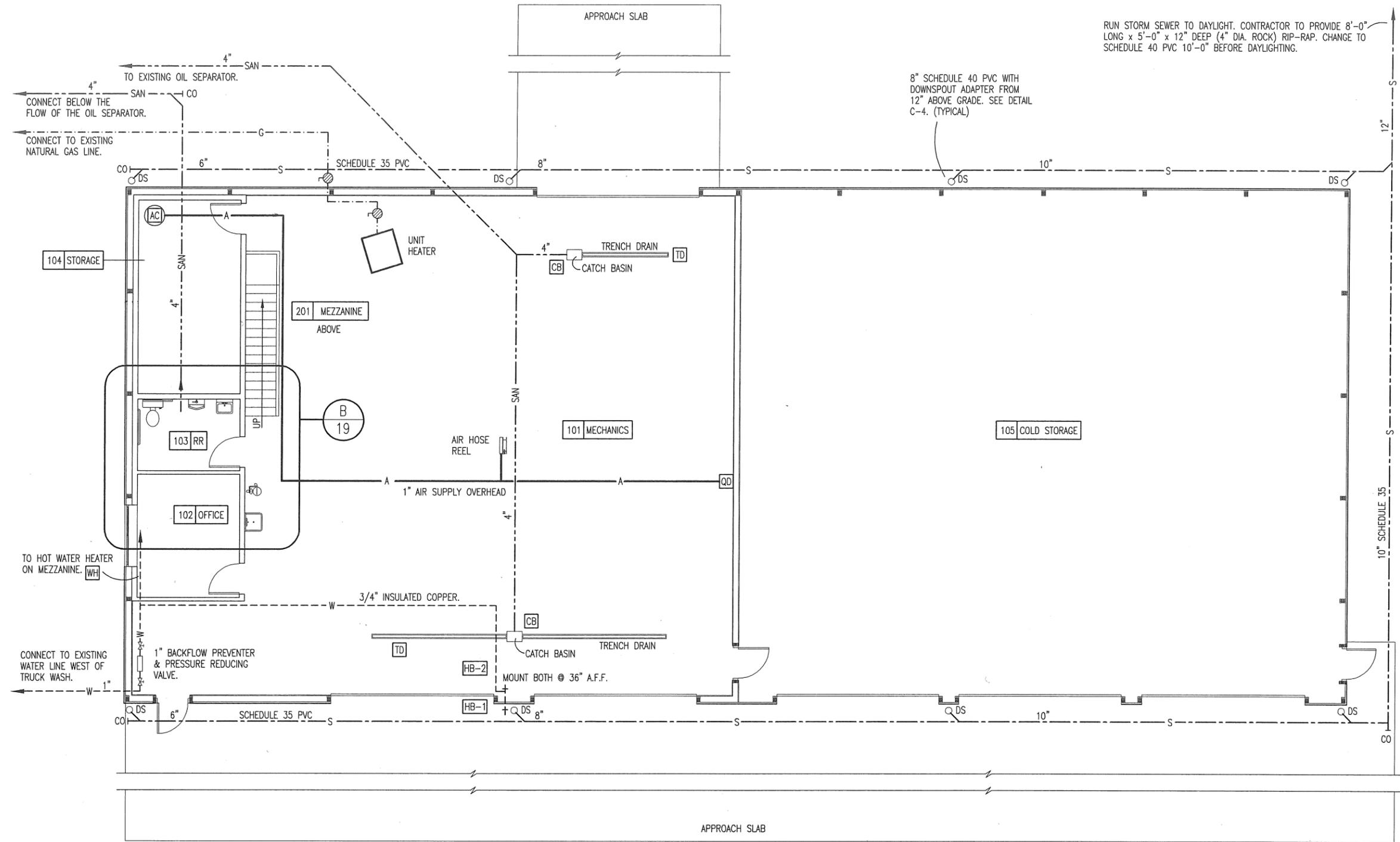


ROOF FRAMING PLAN

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RUN STORM SEWER TO DAYLIGHT. CONTRACTOR TO PROVIDE 8'-0" LONG x 5'-0" x 12" DEEP (4" DIA. ROCK) RIP-RAP. CHANGE TO SCHEDULE 40 PVC 10'-0" BEFORE DAYLIGHTING.

8" SCHEDULE 40 PVC WITH DOWNSPOUT ADAPTER FROM 12" ABOVE GRADE. SEE DETAIL C-4. (TYPICAL)

A
17
PLUMBING PLAN
SCALE: 3/32" = 1'-0"



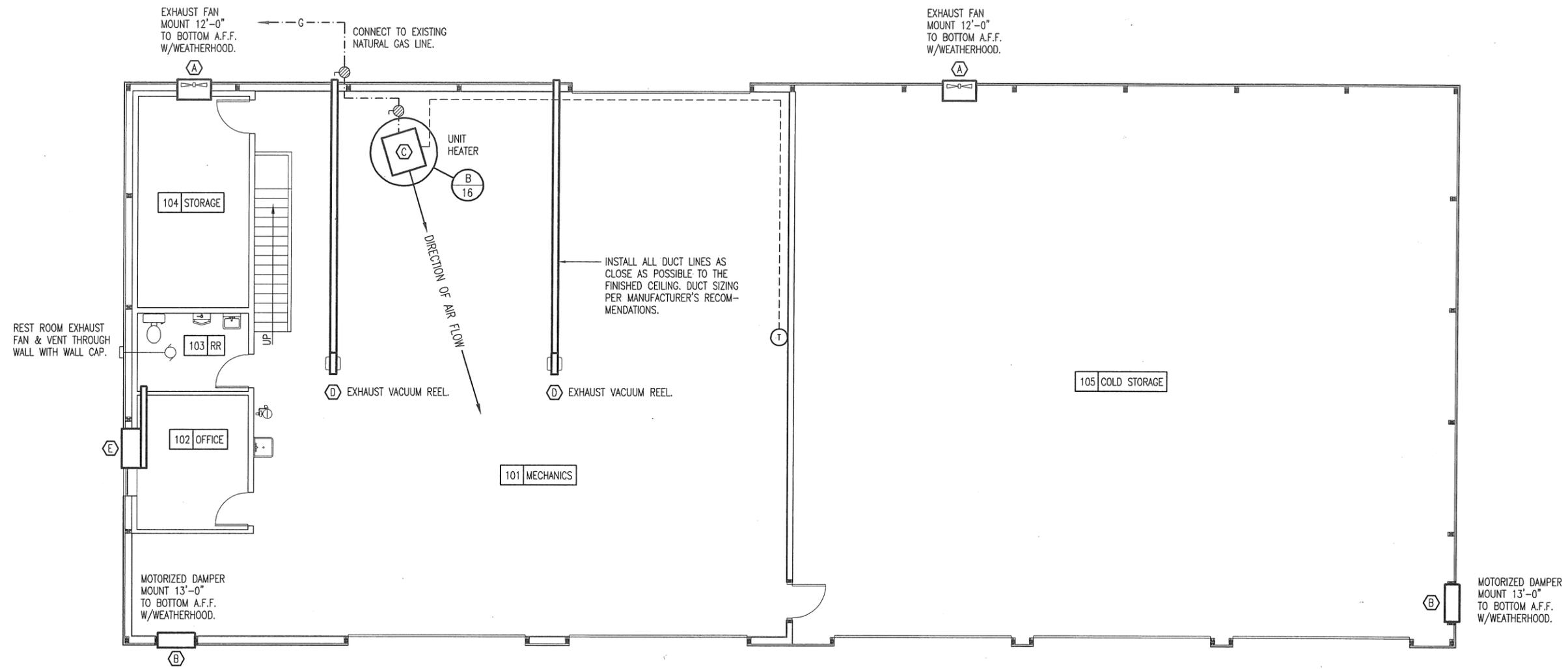
SEE SHEET 19 FOR PLUMBING SCHEDULE & NOTES.

PLUMBING PLAN

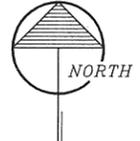
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A
18
MECHANICAL PLAN
SCALE: 3/32" = 1'-0"



SEE SHEET 7 FOR HVAC
FIXTURE SCHEDULE.

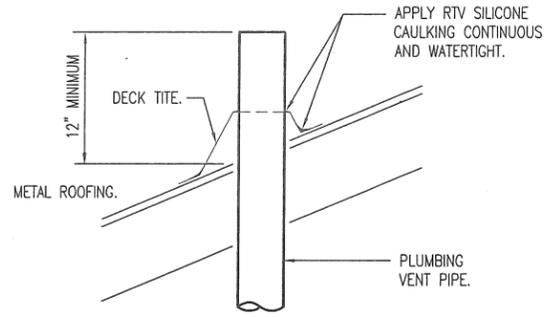
MECHANICAL PLAN

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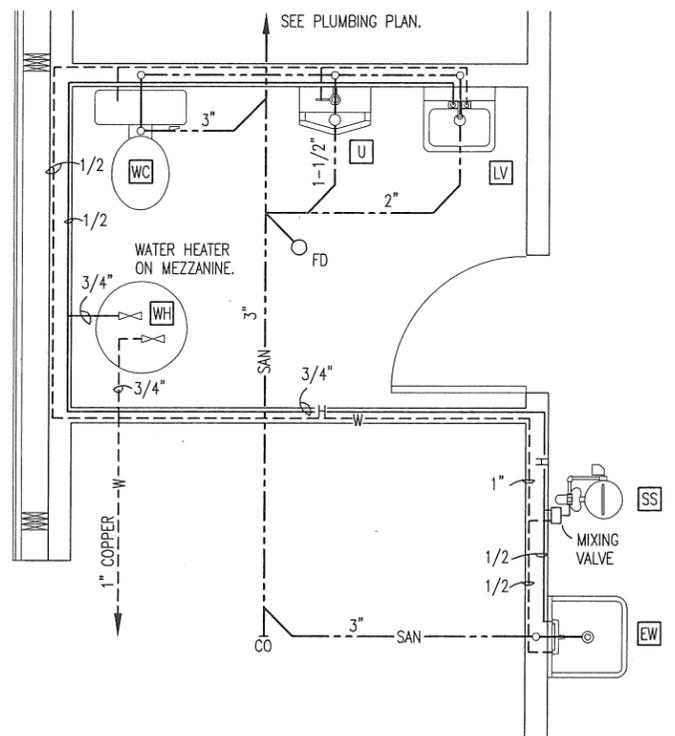
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PLUMBING SCHEDULE						
SYM.	FIXTURE	PIPE CONNECTION				REMARKS
		CW	HW	S&W	VENT	
WC	WATER CLOSET	1/2"		3"	2"	EQUAL TO AMERICAN STANDARD #2377.100 FLOOR MOUNT. PRESSURE ASSISTED, ELONGATED WATER-SAVER "CADET" WATER CLOSET. 16-1/2" HIGH 3109.016 BOWL, 4098.100 TANK. INCLUDE OPEN FRONT SEAT WITH LID. (WHITE)
U	URINAL	3/4"		1-1/2"	1-1/2"	EQUAL TO AMERICAN STANDARD #6601.021 "LYNBROOK" 1.0 GALLON URINAL WITH SLOAN ROYAL 180-1 FLUSH VALVE.
LV	LAVATORY	1/2"	1/2"	2"	2"	EQUAL TO AMERICAN STANDARD #4867.024, 20" x 18" ENAMELED, CAST IRON "REGALYN" WALL MOUNT LAVATORY WITH 4" CENTERSET SYMMONS SYMMETRIX S-20-2-BH SINGLE LEVER LAVATORY FAUCET. INCLUDE AN ADA APPROVED INSULATION KIT.
SS	SERVICE SINK	1/2"	1/2"	3"	2"	EQUAL TO AMERICAN STANDARD #7692.049, 22" x 18" ENAMELED, CAST IRON "LAKEWELL" SERVICE SINK W/ 8340.242 HERITAGE LEVEL HANDLE FAUCET, AND 7798.176 P-TRAP.
EW	EMERGENCY EYE WASH	1-1/4"	3/4"			EQUAL TO BRADLEY "MODEL S19-310" DRENCH SHOWER/EYE WASH UNIT SAFETY YELLOW. S19-2100 THERMOSTATIC MIXING VALVE.
WH	WATER HEATER	3/4"	3/4"			A.O. SMITH MODEL NUMBER EES-30 (2) 4500 WATT, 240 VOLT ELEMENTS, 30 GALLON ELECTRIC WITH PRESSURE RELIEF VALVE OR EQUAL. MOUNT ON MEZZANINE WITH DRAIN PAN.
HB-1	HOSE BIBB	3/4"				EXTERIOR - EQUAL TO WOODFORD MODEL 67 FREEZELESS WALL HYDRANT WITH 3/4" H.P.T. OUTLET, INTEGRAL VACUUM BREAKER-BACK FLOW PREVENTER. (N.I.C.)
HB-2	HOSE BIBB	3/4"				INTERIOR - EQUAL TO WOODFORD MODEL 26 WALL FAUCET WITH 3/4" H.P.T. OUTLET, INTEGRAL VACUUM BREAKER-BACKFLOW PREVENTER.
FD	FLOOR DRAIN			2"		PVC FLOOR DRAIN WITH P-TRAP, 6-1/2" DIA. NICKLE-BRONZE STRAINER, 2" FIP THREADED THROAT-BALL BACKWATER DEVICE. 1-1/2" PRE-INSTALLED FIP CLEAN-OUT THREADS.
CO	CLEAN OUT					BRASS WITH ADAPTER AND CAP EQUAL TO PIPE SIZE SHOWN.
AC	AIR COMPRESSOR					EQUAL TO INGERSOLL-RAND MODEL #2340, 28A, 5 HP, 60 GALLON VERTICAL, 2-STAGE. PROVIDE RUBBERIZED WASHERS AT EACH FLOOR MOUNT TO ACT AS A SHOCK ABSORBER. SIZE MOUNT AS REQUIRED. PROVIDE LINE FILTERS AS REQUIRED. 30A BREAKER.
AHR	AIR HOSE REEL					EQUAL TO REELCRAFT 7850 OLP 57 300 LOW PRESSURE HEAVY DUTY ALL STEEL CONSTRUCTION WITH ONE PIECE WRAP AROUND GUIDE ARM.
QD	QUICK DISCONNECT					VERIFY SIZE WITH MODOT MECHANIC. MOUNT AT 48" A.F.F. ATTACH RIGIDLY TO GIRTS.
TD	TRENCH DRAIN			4"		EQUAL TO ACO K100 CHANNEL SLOPE TRENCH DRAIN SYSTEM WITH TYPE 461Q DUCTILE QUICKLOC CAST IRON GRATE.
CB	CATCH BASIN			4"		EQUAL TO ACO K900 CATCH BASIN, WITH PLASTIC TRASH BUCKET WITH TYPE 461Q DUCTILE QUICKLOC CAST IRON GRATE FOR LID.



VENT THROUGH ROOF DETAIL

SCALE: NONE



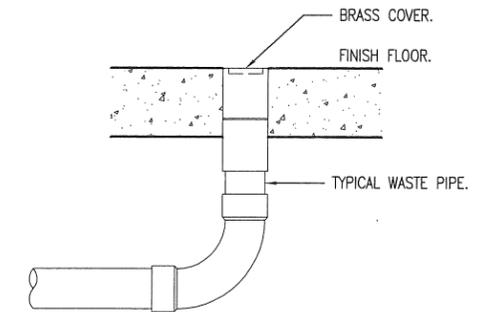
B REST ROOM (RR) PLUMBING PLAN
SCALE: 1/4" = 1'-0"

MECHANICAL NOTES

1. DRAWINGS AND DIAGRAMS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
2. MECHANICAL WORK SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE IBC MECHANICAL CODE.
3. PROVIDE EQUIPMENT AND APPURTENANCES NOT NECESSARILY SHOWN OR SPECIFIED BUT NEEDED FOR COMPLETE AND PROPER INSTALLATION.
4. ALL EQUIPMENT AND MATERIALS, IN PARTICULAR VALVES, FILTERS, MOTORS, AND CONTROLS SHALL BE ARRANGED TO PROVIDE PROPER CLEARANCE FOR SERVICE, MAINTENANCE AND INSPECTION.
5. MECHANICAL SUBCONTRACTOR SHALL FULLY COORDINATE ALL WORK WITH PLUMBING AND ELECTRICAL WORKERS PRIOR TO COMMENCING OF THE MECHANICAL INSTALLATION.
6. PROVIDE BLOCKING TO HVAC DEVICES AS REQUIRED FOR A SECURE APPLICATION.
7. MECHANICAL CONTRACTOR TO PROVIDE ALL DEVICES REQUIRED FOR A FUNCTIONAL SYSTEM.

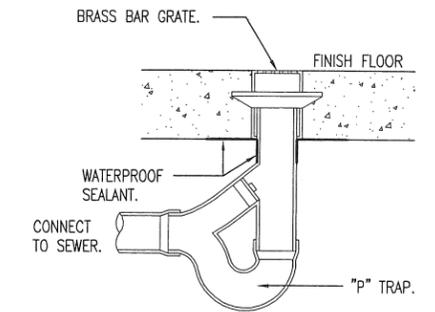
PLUMBING NOTES

1. DRAWINGS AND DIAGRAMS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
2. PLUMBING SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE INTERNATIONAL PLUMBING CODE.
3. PLUMBING SHALL BE LOCATED AND PLACED UNDER THE SLAB PRIOR TO POURING OF CONCRETE. PIPING SHALL BE RUN IN SAND FILLED TRENCH UNDER THE BASE ROCK AND SLEEVED WITH PVC WHENEVER RUN THROUGH CONCRETE.
4. PROVIDE PLUMBING EQUIPMENT AND ACCESSORIES REQUIRED FOR COMPLETE AND OPERATIONAL PLUMBING SYSTEMS AS REQUIRED BY MANUFACTURER'S INSTRUCTIONS AND DIRECTIONS FOR SYSTEMS SPECIFIED.
5. PLUMBING VENTS ARE NOT SHOWN ON THE PLANS. ALL FIXTURES SHALL BE PROPERLY VENTED AS PER IBC PLUMBING CODE.
6. ROOF VENTS SHALL BE COMBINED WHEREVER IN COMPLIANCE WITH THE NATIONAL PLUMBING CODE TO MINIMIZE ROOF PENETRATIONS.
7. PROVIDE SHUT OFF VALVES AT EACH FIXTURE.
8. PROVIDE SHOCK ABSORBERS AS REQUIRED AT EACH FAUCET.
9. SEE MECHANICAL PLAN FOR GAS PIPING AND MECHANICAL REQUIREMENTS.
10. CONTRACTOR TO PROVIDE CAST IRON VENT PIPING IN PLENUM AS REQUIRED BY CODE. SECURE AS REQUIRED.
11. EXTERIOR BELOW GROUND WATER DISTRIBUTION PIPING SHALL RUN A MINIMUM OF 36" BELOW FINISH GRADE.
12. CONTRACTOR TO PROVIDE 1" BACK FLOW PREVENTER & PRESSURE REDUCING VALVE IN 101 MECHANICS AS REQUIRED.
13. PROVIDE BLOCKING TO ALL FIXTURES AS REQUIRED FOR A SECURE APPLICATION.



FLOOR CLEANOUT DETAIL

SCALE: NONE



FLOOR DRAIN DETAIL

SCALE: NONE

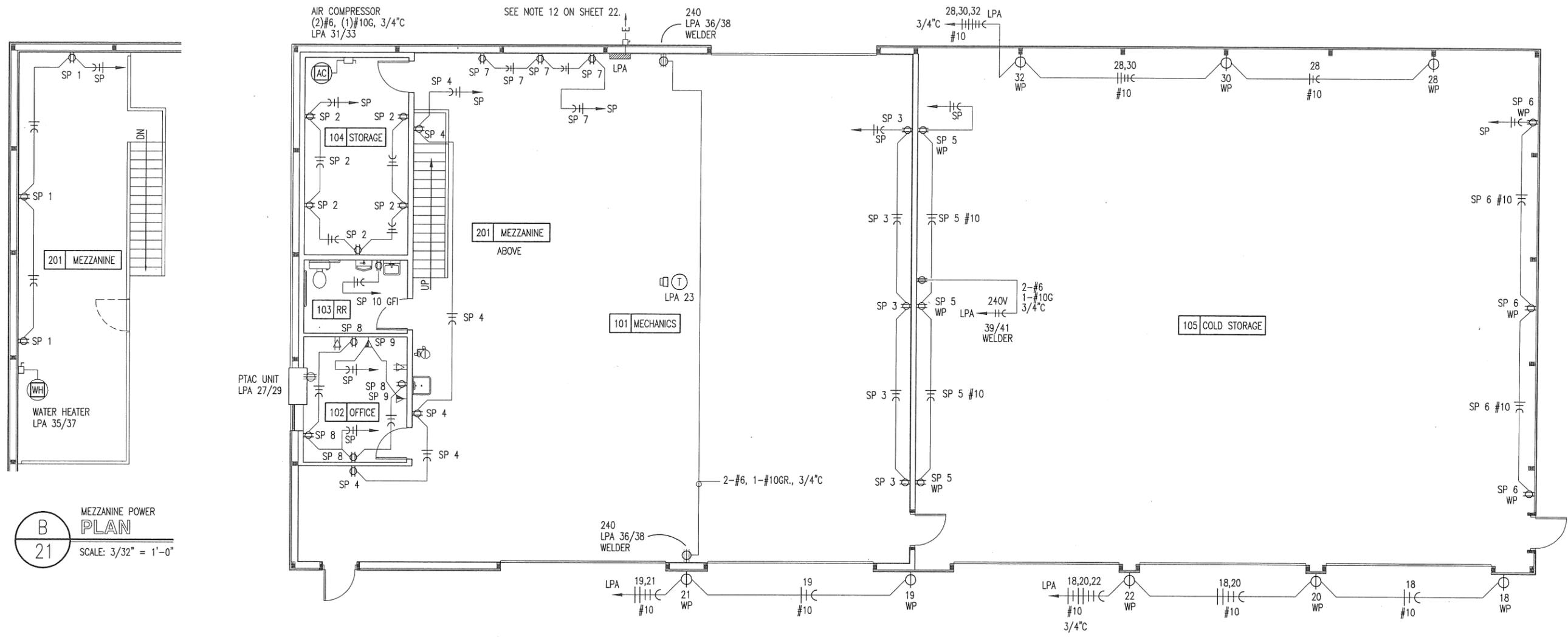
A PLUMBING & MECHANICAL NOTES
SCALE: NONE

PLUMBING & MECHANICAL NOTES

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MEZZANINE POWER PLAN
 B 21
 SCALE: 3/32" = 1'-0"

A POWER PLAN
 21
 SCALE: 3/32" = 1'-0"

SEE ELECTRICAL SCHEDULE & NOTES SHEET 22.

POWER PLAN

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ELECTRIC SCHEDULE

MANUF.	MODEL	#	LAMPS TYPE	W	MNT	REMARKS
	50G-S24-LED*UT 50/835-RPC12125-ED*UT-UNV		LED	51	CLG	24" x 48" STATIC TROFFER FIXTURE, HOUSING: 22 GAUGE DIE FORMED C.R.S. SHIELDING: FROSTED ACRYLIC, PATTERN #12.
	50G-S24-LED*UT 50/835-RPC12125-EM/BSL310-ED*UT-UNV		LED	51	CLG	24" x 48" STATIC TROFFER FIXTURE, HOUSING: 22 GAUGE DIE FORMED C.R.S. SHIELDING: FROSTED PATTERN #12 & EMERGENCY DRIVER.
	GRAINGER #4C772				CLG	80 CFM CEILING MOUNT BATHROOM VENTILATOR.
	50G-S22-LED*UT30/85-RPC12125-EM/BSL310-ED*UT-UNV		LED	25	CLG	24" x 24" STATIC TROFFER FIXTURE, HOUSING: 22 GAUGE DIE FORMED C.R.S. SHIELDING: FROSTED PATTERN #12 & EMERGENCY DRIVER.
	GL-4-L200/840-WG11-DRV-UNV		LED	174	CLG	14-3/16" x 48" DIE-FORMED ALUMINUM HOUSING WITH WIRE GUARD.
	GL-4-L200/840-EM/BSL310-WG11-DRV-UNV		LED	174	CLG	14-3/16" x 48" DIE-FORMED ALUMINUM HOUSING WITH WIRE GUARD. BACK MOUNTED EMERGENCY LED DRIVER.
	TWR1 LED 1 50K MVOLT	1	LED	35	WALL	RUGGED CAST ALUMINUM WITH BRONZE POWDER PAINT. ONE PIECE GASKET TO INHIBIT THE ENTRANCE OF EXTERNAL CONTAMINATES.
	TWR1LED 1 40K MVOLT		LED	33	WALL	EXTERIOR, SURFACE MOUNT LIGHT FIXTURE, WITH ALUMINUM HOUSING. PRISMATIC GLASS LENS.
	GRAINGER #5NPZ3				CLG	SINGLE-SPEED, 48" THREE-BLADE, HEAVY DUTY COMMERCIAL CEILING FAN.
	OVERHEAD DOOR OPERATOR				WALL	115V, 1-PH, TROLLEY TYPE. SEE SPECIFICATION SECTION 08720.
	LHQM P W3 R N				WALL	QUANTUM THERMOPLASTIC EXIT/UNIT COMBO (2) LED 5.4 KRYPTON LAMPS.
	2001				WALL	120V PHOTO ELECTRIC CONTROL OF EXTERIOR LIGHTS.
	GLN-8-L210/8400 WG11-DRV-UNV		LED	171	CLG	8-11/16" x 96" FIXTURE. HEAVY GAUGE ALUMINUM HOUSING WITH WIRE GUARDS.
	OVERHEAD DOOR CONTROL				WALL	THREE BUTTON OVERHEAD DOOR CONTROL AS SUPPLIED BY OVERHEAD DOOR MANUF. SEE SPECIFICATION SECTION 08720.
	L 4050 163 1				CLG	CEILING MOUNTED SPRING RETRACTABLE, ELECT. CORD REEL WITH INCANDESCENT LAMP & THREE PRONG OUTLET PLUG.
	WC-2-28-T5-A12-MVOLT-GEB10PS	2	FLUORESCENT	28	WALL	48" LENGTH x 4-5/8" WIDTH x 4-9/16" DEPTH, COMMERCIAL WALL BRACKET. PROVIDES UP/DOWN DISTRIBUTION. MOUNT 7'-0" A.F.F.
	75L-4-LED*PH50/835-A12125-ED*PH-UNV		LED	51	CLG	2-3/4" x 48" 22 GAUGE DIE-FORMED C.R.S. SHIELDING: ACRYLIC PATTERN #12, .125" THICK.

ELECTRICAL FIXTURES AND EQUIPMENT ARE SCHEDULED BY MANUFACTURER AND MODEL NUMBER FOR DESIGN INTENT ONLY, APPROVED EQUALS MAY BE SUBSTITUTED.

SERVICE PANEL LPA

MAIN BUS: 225A MLO VOLTS: 240/120, 1PH, 3-WIRE BUS MATERIAL: COPPER MOUNTING: SURFACE		SQUARE "D" NQOD OR EQUAL W/ NEUTRAL BUS & GROUNDING BUS CIRCUIT BREAKERS BOLT-IN 10000 AIC				CONNECTED LOAD A PHASE 31592 VA B PHASE 30904 VA TOTAL 62496 VA 260 A	
CIR	SERVICE	VA	BKR	BKR	VA	SERVICE	CIR
1	101 LIGHTS	1566	20A1P	A	20A1P	105 LIGHTS	2
3	105 LIGHTS	1031	20A1P	B	20A1P	201 LIGHTS	4
5	102, 103, 104 LIGHTS	178	20A1P	A	20A1P	EXTERIOR LIGHTS	6
7	EXTERIOR LIGHTS	99	20A1P	B	30A1P	GARAGE DOOR OPENERS	8
9	GARAGE DOOR OPENERS	2162	30A1P	A	20A1P	GARAGE DOOR OPENER	10
11	GARAGE DOOR OPENER	1081	20A1P	B	20A1P	CARBON MONOXIDE	12
13	CARBON MONOXIDE	1553	20A1P	A	20A1P	CEILING FANS	14
15	EXHAUST FAN & DAMPER	813	20A1P	B	20A1P	UNIT HEATER	16
17	EXHAUST FAN & DAMPER	813	20A1P	A	20A1P	EXTERIOR - RECEPTACLE	18
19	EXTERIOR - RECEPTACLE	1000	20A1P	B	20A1P	EXTERIOR - RECEPTACLE	20
21	EXTERIOR - RECEPTACLE	1000	20A1P	A	20A1P	EXTERIOR - RECEPTACLE	22
23	CORD REEL	540	20A1P	B		-	24
25	-			A		-	26
27	PTAC UNIT	1440	20A2P	B	20A1P	RECEPTACLES	28
29		1440		A	20A1P	RECEPTACLES	30
31	104 - AIR COMPRESSOR	3360	30A2P	B	20A1P	RECEPTACLES	32
33		3360		A		-	34
35	WATER HEATER	2600	30A2P	B	50A2P	101 WELDER	36
37		2600		A		4500	38
39	105 WELDER	4500	50A2P	B	50A2P	SUB-PANEL-SP	40
41		4500		A		2520	42

● CIRCUIT BREAKER SHALL BE GFI RATED

SUB-PANEL: SP

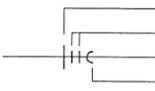
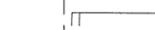
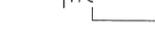
MAIN BUS: 100A MLO VOLTS: 240/120, 1PH, 3-WIRE BUS MATERIAL: COPPER MOUNTING: SURFACE		SQUARE "D" NQOD OR EQUAL				CONNECTED LOAD A PHASE 2700 VA B PHASE 2340 VA TOTAL 5040 VA 21 A	
CIR	SERVICE	VA	BKR	BKR	VA	SERVICE	CIR
1	201 RECEPTACLES	540	20A1P	A	20A1P	104 RECEPTACLES	2
3	101 RECEPTACLES	540	20A1P	B	20A1P	101 RECEPTACLES	4
5	105 RECEPTACLES	540	20A1P	A	20A1P	105 RECEPTACLES	6
7	101 RECEPTACLES	540	20A1P	B	20A1P	102 RECEPTACLES	8
9	102 DEDICATED RECEPTACLES	360	20A1P	A	20A1P	103 RR	10
11	-			B		-	12

● CIRCUIT BREAKER SHALL BE GFI RATED

ELECTRICAL NOTES

1. DRAWINGS AND DIAGRAMS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
2. ELECTRICAL WORK SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE (N.E.C.).
3. PROVIDE ELECTRICAL EQUIPMENT AND ACCESSORIES REQUIRED FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM AS REQUIRED BY MANUFACTURER'S INSTRUCTIONS AND DIRECTIONS FOR SYSTEMS SPECIFIED.
4. SWITCHES AND RECEPTACLES SHALL BE EQUAL TO THE AMPERE RATING SHOWN IN THE PANEL SCHEDULE. RECEPTACLES SHALL BE GROUND-FAULT INTERRUPTION TYPE WHERE SHOWN OR AS REQUIRED BY CODE.
5. ALL RECEPTACLES IN BAY AREA TO BE MOUNTED AT 48" A.F.F.
6. COORDINATE WORK WITH OTHER TRADES PRIOR TO COMMENCING WITH ELECTRICAL WORK.
7. CONDUCTOR AND BREAKER SIZE MAY VARY PER MANUFACTURER ON THE EQUIPMENT SPECIFIED. ELECTRIC CONTRACTOR TO VERIFY SIZES WITH EXACT EQUIPMENT ORDERED PRIOR TO PURCHASING ELECTRICAL SUPPLIES.
8. FIXTURE LOCATIONS ARE APPROXIMATE, EXACT LOCATIONS TO BE DETERMINED AFTER COLLABORATION WITH THE OWNER AND OTHER TRADES.
9. CONTRACTOR SHALL PROVIDE SERVICE DISCONNECTS AS REQUIRED AT EXTERIOR OF BUILDING.
10. PROVIDE BLOCKING FOR ELECTRICAL DEVICES AS REQUIRED FOR A SECURE APPLICATION.
11. SEE SPECIFICATION SECTION 16100 - ELECTRICAL FOR ADDITIONAL REQUIREMENTS.
12. CONTRACTOR TO INSTALL CONDUCTORS IN CONDUIT FROM POWER POLE UP TO SERVICE DISCONNECT ON BUILDING AND THEN TO INSIDE FOR A FUNCTIONAL SYSTEM. PROVIDE AND INSTALL METER AS/IF REQUIRED.

LEGEND

- \$ WP SINGLE POLE OR 3-WAY SWITCH, MOUNT IN FS BOX WITH HUBBELL HBL7420 COVER.
 - ⊕ WP DUPLEX RECEPTACLE MOUNTED IN FS BOX WITH HUBBELL HBL5221 COVER.
 - ⊙ WP SINGLE RECEPTACLE MOUNTED IN FS BOX WITH HUBBELL HBL7423 COVER.
 - \$ SINGLE POLE SWITCH, FLUSH MOUNTED IN FINISHED AREAS @ 48" A.F.F.
 - \$³ 3-WAY SWITCH, SURFACE MOUNTED IN UNFINISHED AREAS @ 48" A.F.F.
 - ⊕ DUPLEX RECEPTACLE FLUSH MOUNTED IN FINISHED AREAS @ 18" A.F.F. TO BOTTOM OF OUTLET.
 - ⊕ DUPLEX RECEPTACLE SURFACE MOUNTED IN UNFINISHED AREAS @ 42" A.F.F.
 - ⊕ WELDER RECEPTACLE SURFACE MOUNTED 42" A.F.F., MOUNT IN 4" SQUARE BOX WITH RAISED COVER.
 - ⊕ GFI DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPTER. PROVIDE SEPARATE GROUND PER CIRCUIT. TYPICAL.
 - JUNCTION BOX, SIZE FOR WIRE, FILL ACCORDING TO ARTICLE 314-16 OF THE N.E.C.
 - NON FUSED DISCONNECT SWITCH.
 - ⚡ DEDICATED RECEPTACLE FLUSH MOUNTED IN FINISHED AREAS @ 18" A.F.F. TO BOTTOM OF OUTLET.
 - ⚡ VOICE AND DATA OUTLET FLUSH MOUNTED IN FINISHED AREAS @ 18" A.F.F. TO BOTTOM OF OUTLET.
-  #12 COPPER NEUTRAL CONDUCTOR UNLESS NOTED.
 #12 COPPER PHASE CONDUCTORS UNLESS NOTED.
 1/2" EMT UNLESS NOTED.
 #12 COPPER GROUNDING CONDUCTOR UNLESS NOTED.

ELECTRICAL PANEL

**MISSOURI DEPARTMENT
OF TRANSPORTATION**
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

Carrollton Mechanics & Cold Storage Building
Northwest District - Carrollton County
215 South Mason, Carrollton, MO 64633

DRAWN BY: LARRY CARVER
CHECKED BY: GB
DATE: 7-31-15
Sheet
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