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DEALER:
MOBILE MODULAR
PROJECT:
HAVEN HOUSE OF MONTROSE
(DAYCARE - 2026)
(90' X 48')
#19474-82

[X] APPROVED
[ ] APPROVED EXCEPT AS NOTED
[ ] REVISE AND RESUBMIT

BY: Phil Motley DATE: 9/8/26

"PLEASE REVIEW DRAWINGS AND SPECIFICATIONS CAREFULLY. WHILE EVERY EFFORT IS MADE TO ASSURE THE DRAWINGS REFLECT THE EXPECTATIONS AND QUOTATION, THE FINAL CONSTRUCTION WILL BE BASED SOLELY ON THE SPECIFICATIONS. DRAWINGS APPROVED AND THE MANUFACTURE'S LIMITED WARRANTY."

FRAME / CHASSIS:

Frame Type: Perimeter
Quantity: (9) EA
Size: 10'-0" X 48'-0"
Type: C-channel perimeter w/ C-purlin cross members & w/ C-channels @ wheel wells.
Spacing: 16" o.c. (Min. 36 KSI)
C-purlin: (1/2" x 2 1/2" x 8" x 2 1/2" x 1/2" x 14 ga. Min.)
C-channel: (1 1/2" x 3" x 1 1/2" Channel)
Beam Size: 12" C-channel (C12 x 20.7#) (Axle Beams to be @ XX o.c. per 10'-0" frames)
Axles: 6000# rated underslung with (5) brake (Floors D, G & H)
6000# rated underslung with (4) brake (@ Remaining)
Hitch: Detachable with standard hitch
Tires: 8x14.5 14 ply rated

Additional Frame / Chassis Items Included in Quoted Price:

Item 1: Hitch to be bolt-on type & removable.
Item 2: Install all axles/hangers to be bolt-on and removable per "crane-set" at site.)
Item 3: Install box-outs at water closets and C-purlins adjusts per plumbing fixtures. (See Sheet 13).
Item 4: Install 2"x2" angles as required for attaching 30 ga. bottom board. (Factory standard).
(Bottom board to be full Length of floor and breaks at longer framing members.)
Item 5: Weld & bolt-on 1/4" plates to C-Channel perimeter frame for bolt-on axles. (See Sheet 17)
Item 6: Weld rolled C-Channel at ALL exterior wall tie-down locations. (See Sheet 2)
(Coordinate w/ Floor shop and install after exterior walls are set).
Item 7: Install custom fenders as required over wheels to cover during transportation. (1 per side)

FLOOR CONSTRUCTION:

Floor Joist: C-PURLINS
Framing: Transverse
Joist: 16" O.C.
Floor Decking: Single layer 1 1/8" T&G Sturd-I-Floor. Hold back decking (2") at each side of mateline.
Insulation: R-30C unfaced fiberglass batt
Bottom: 30 ga. galvanized bottom board or equal

Additional Floor Items Included in Quoted Price:

Item 1: See Sheet 13 for chassis framing and frame-outs for plumbing fixtures.
Item 2: Install 2x12 treated nailer to outside of perimeter frame with TEK screws. (Full Perimeter)
Item 3: Floor decking to be mechanically fastened to frame with TEK screws. (See Detail 1/8.)

EXTERIOR WALL CONSTRUCTION:

Framing: Stud: 2X6 #2 SYP equal or better @ 16" O.C.
Top Plate: Double 2X6 #2 SYP equal or better top plate
Bottom Plate: Single 2X6 #2 SYP or better bottom plate.
Header: (3) 2X6 header with (2) 1/2" shim at all exterior openings

Wall Sheathing: NONE

Insulation 1: R-21 Kraft back fiberglass batt (Kraft paper to face the interior of the building)

Siding Type: 4'x9'x7/16" LP Smartside panel vertical siding w/ 8" grooves over house wrap
Sidewall Height: See cross section for heights

Additional Exterior Wall Items Included in Quoted Price:

Item 1: VCG hold back to first stud at mateline(s) - (NO).
Item 2: Install 2X Blocking at storefront door per future awning. (See Sheets 2 & 3)
(Customer to verify location of 2x blocking and provide spec for future awning.)
Item 3: 2x4 Plumbing/Chase wall at sinks in Classrooms 101 & 102. (See floor plan and hatch legend).

SKIRTING:

Skirting: None

INTERIOR WALL CONSTRUCTION:

Framing: Stud: 2X4 #2 SYP equal or better @ 24" O.C. @ Fire-rated partition walls
2X4 #2 SYP equal or better @ 16" O.C. @ Remaining
Top Plate: Double 2X4 #2 SYP equal or better top plate
Bottom Plate: Single 2X4 #2 SYP or better bottom plate.
Wall height: Full height to roof deck (deck-to-deck) @ Fire-rated partitions ONLY
(9'-3" & pony wall to roof deck) (See Detail 5/8)
9'-3" @ Remaining walls
Insulation: R-11 unfaced fiberglass batt (8'-0" @ ALL walls)

Additional Interior Wall Items Included in Quoted Price:

Item 1: VCG hold back to first stud at mateline(s) - (NO).
Item 2: 2x4 & 2x6 Plumbing/Chase walls at various locations. (See floor plan & hatch legend).
Item 3: One hour fire rated partitions are to extend to underside of roof decking.
(See Sheet 8 for fire partition assembly & construction).
Item 4: Install 5/8" DensGlass (Type-X - Sheathing Grade) as filler to NON-rated walls at the intersections of the Fire Partitiond. (Installed to complete fire-rated assembly - See Sheet 8).

ROOF CONSTRUCTION:

Roof Type: Transverse Ridge
Slope: 1/4" on 12"
Rafter size: 2X8 #2 SYP equal or better
Spacing: 16" O.C.
(Roof diaphragm chord strap 'HTT4' at rafters installed on-site, see 3/2)
Mate Beam: Multi-layer laminated plywood
Height: 33" to 39" to 33" (Various Beams - See Sheet 10)
Length: 48'
No. of Layers: 3
No. of Beams: 16
Insulation: R-38C unfaced fiberglass batt with plastic support netting
Sheathing: 7/16" OSB decking for Class C roofing or equal
Roofing: 45 mil Black single ply fully adhered EPDM
CCRR - 1078 Table 1: Mule-Hide - FR Adhesive Roof System

Additional Roof Items Included in Quoted Price:

Item 1: Drip Rail / J-Rail (No seams above doors and windows)
Item 2: Gutters and downspouts are to be provided by and installed by others onsite.
Item 3: Ship loose washers, nuts, bolts, and all-thread to tie buildings together w/ 'HTT4'.
Item 4: Install Seismic Braces to rafters each side of all columns. Typical at both roofs and all columns.
(Extra bracing required at columns along with the typical seismic bracing.) (Detail 3/8 & Sheet 14).
Item 5: Install double 2x6 rafters/blocking with 1/2" CDX filler at fire-rated partitions. (See Sheets 9 & 14)
Item 6: All matebeams to have holes for flex duct crossovers. (See Sheet 10).
Item 7: One hour fire rated partitions are to extend to underside of roof decking.
(See Sheet 8 for fire partition assembly & construction).
(Double layer of gypsum to underside of rafters not required per 2024 IBC - 708.4)

EXTERIOR/INTERIOR DOORS:

(SEE DOOR SCHEDULE)

WINDOWS:

(SEE WINDOW SCHEDULE)

CLOSEUP:

Type: CO Closeup (Straps 4' O.C. vertically and horizontally)
Notes: Module WILL exceed 10'-0" (Including door hardware and lights)
Dealer Signs: Provided by Dealer and installed at factory.
Ship Loose: Ship loose Cove Base 2, ...T.B.D.

ACCESSORIES:

Cabinets: See Sheet 3 and Additional Items schedule.
Countertops: See Sheet 3 and Additional Items schedule.
Desktops: See Sheet 3 and Additional Items schedule.
Gutters & Downspouts: None

FINISHES:

FLOOR COVERING:
Type 1: .080 Commercial grade vinyl rolled goods with welded seams and 6" self-cove wall base.
Location: (All Restrooms & Utility Closet)
Color to be: (See Color Selections)
Type 2: Flooring supplied and installed at site by others.
Location: (Remainder)
Color to be: (Bare Floor)

BASE:
Cove Base 1: 6" Self-Cove wall base (Included with vinyl rolled goods)
Location: (All Restrooms & Utility Closet)
Color to be: (See Color Selections)
Cove Base 2: 4" Rubber cove
Location: (Remainder)
Color to be: (See Color Selections)
(Ship loose and to be installed by others at site)

WALLS:
Covering 1: 1/2" Vinyl covered gypsum w/ wrapped battens
Location: (Exterior Walls ONLY)
Covering height: 9'
Color to be: (See Color Selections)
Hold Back VCG: Hold back VCG at matelines to first stud (NO)
Covering 2: 5/8" Vinyl covered gypsum w/ wrapped battens
Location: (Remaining)
Covering height: 9'
Color to be: (See Color Selections)
Hold Back VCG: Hold back VCG at matelines to first stud (NO)
Covering 3: 5/8" Type X Vinyl covered gypsum w/ wrapped battens (Fire caulk / tape as required)
Location: (1-Hour rated walls)
Covering height: 9'
Color to be: (See Color Selections)
Note: Extended to roof deck / offset seams
Hold Back VCG: Hold back VCG at matelines to first stud (NO)
Covering 4: Standard FRP (Class C) panels on all walls.
Location: (Child Restrooms)
Covering height: 4'
Color to be: (See Color Selections)
Hold Back VCG: Hold back VCG at matelines to first stud (NO)
Covering 5: Standard FRP (Class C) panels behind and along side of water closets.
Location: (Adult Restrooms)
Covering height: 4'
Color to be: (See Color Selections)
Hold Back VCG: Hold back VCG at matelines to first stud (NO)

BLOCKING:
Blocking 1: 2x Blocking required at storefront door per future awning. (1 - location) (See Sheets 2 & 3)
(Customer to verify location of 2x blocking and provide spec for future awning.)
Blocking 2: 2x Blocking required for future changing stations. (3 - locations) (See Sheets 2 & 3)

INTERIOR TRIM:
Wall Trim 1: Vinyl covered battens
Color to be: (Match VCG)
Wall Trim 2: FRP trim
Color to be: (Match FRP)

CEILING:
Type 1: 2'x4' Standard T-Grid (Armstrong Mineral Fiber Tile # 769 or equal)
Height: 8'-10"
Location: (Throughout)
Installed at factory, held back at module lines.
Completion of ceiling installation on-site by others; not in Amtex's scope.

EXTERIOR:
Siding body: Color: (See Color Selections) 9' Sheets
False Mansard: Color: (____)
4" Corner trim @ Body: Color: (____)
4" Corner trim @ False Mansard: Color: (____)
4" Door & Window trim: Color: (____)
4" Bottom horizontal trim: Color: (____)
4" Intermediate horizontal trim: Color: (____)
4" Top horizontal trim: Color: (____)
8" Mateline trim @ Body: Color: (____)
8" Mateline trim @ False Mansard: Color: (____)

All paint to be: Satin Finish (Sherwin Williams)

MANUFACTURER:

MANUFACTURE & ADDRESS: AMTEX CORP.
832 EAST WALNUT ST.
GARLAND, TX. 75040
(SEE WEBSITE FOR WARRANTY INFORMATION)

JOB SITE INFORMATION:

JOB SITE ADDRESS: HAVEN HOUSE OF MONTROSE
4806 N. RIVER RD.
OLATHE, CO 81425

DESIGN CRITERIA / LOADS:

NO OF MODULES: 9
BUILDING SQ.FT: 4320
TYPE OF CONSTRUCTION: VB
OCCUPANCY USE GROUP: I-4 (Classroom: Ages 0-5 yrs.)
OCCUPANCY LOAD: 87
FLOOR LIVE LOAD: 125 psf (2000 lb concentrated)

ROOF LIVE LOAD: 20 psf
ROOF DEAD LOAD: 10 psf
GROUND SNOW LOAD: 69.2 psf
ROOF SNOW LOAD: 57.2 psf (.7S = 40 psf (ASD))
SOLAR PANEL ALLOWANCE: 5 psf
WIND LOAD: IBC-93 MPH (VASD) EXP. C
IBC-120 MPH (V) EXP. C
OCCUPANCY/RISK CATG: II
SEISMIC DESIGN CATEGORY: C (Ss = 0.4) (S1 = 0.1)
PERMISSIBLE GAS TYPE: N/A
SPRINKLER SYSTEM: N/A

NAME AND DATE OF CODES:

CO.: 2024 IBC W/ CO Administrative Rule Amendments,
2024 IPC W/ CO Administrative Rule Amendments,
2024 IMC W/ CO Administrative Rule Amendments,
2024 IECC W/ CO Administrative Rule Amendments,
2024 IFGC W/ CO Administrative Rule Amendments,
2023 NEC W/ 8 CCR 1302-14 CO Administrative Rule Amendments,
CO MODEL SOLAR AND ELECTRIC READY CODE,
ICC A117.1-2017 ACCESSIBILITY CODE.

SPECIAL CONDITIONS AND / OR LIMITATIONS:

MANUFACTURE'S OBLIGATIONS ARE CONTAINED IN THE TERMS OF IT'S ONE YEAR MANUFACTURED BUILDING LIMITED WARRANTY.

THE OWNER SHALL BE RESPONSIBLE TO INSTALL AN APPROVED AND LISTED COMPONENT IN ACCORDANCE WITH ASTM E 1996 OR ASTM E 1866 FOR THE PROTECTION OF ALL EXTERIOR OPENINGS (WINDOWS, DOORS AND LOUVERS) WHEN THIS STRUCTURE IS LOCATED IN A WIND BORNE DEBRIS REGION IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE SECTION 1609.1.2. PRIOR TO FINAL INSPECTION AND OCCUPANCY.

BUILDING IS DESIGNED FOR SEISMIC "A, B & C" AREAS ONLY. BUILDING IS NOT TO BE PLACED IN SEISMIC AREA'S OF "D" OR GREATER.

BUILDING IS DESIGNED FOR CLIMATE ZONES:
5b ONLY.

BUILDING IS WUI COMPLIANT: (NO)

NOT INCLUDED IN SCOPE OF WORK:

1. PORCHES, STEPS, AND RAMPS TO BE SUPPLIED AND INSTALLED BY OTHERS IN ACCORDANCE WITH THE IBC.
2. PORTABLE FIRE EXTINGUISHERS TO BE SUPPLIED AND INSTALLED ON SITE BY OWNER IN ACCORDANCE WITH SECTION 906 OF THE IBC.
3. PROVIDE PLUMBING FIXTURES REQUIRED PER TABLE-403.1 OF THE IPC AND LOCATED WITHIN 500 FEET OF THIS BUILDING PER SECTION 2902.3.3 OF THE 2024 IBC.
4. ANY REQUIRED FIRE/SMOKE DETECTION AND/OR SUPPRESSION TO BE INSTALLED BY OTHERS ON SITE IN ACCORDANCE WITH THE IBC AND THE IFC.
5. MOBILE MODULAR TO SITE CONSTRUCT DRAFT STOP IN ACCORDANCE WITH THE IBC WHERE REQUIRED.
6. MANUAL FIRE ALARM SYSTEM SHALL BE SUPPLIED AND INSTALLED AT SITE BY OTHERS IN ACCORDANCE WITH THE NFPA 72.
7. THE BUILDING OWNER IS RESPONSIBLE FOR THE DEVELOPMENT & DESIGN OF ALL SITE REQUIRED ACCESSIBILITY ELEMENTS. THESE ELEMENTS ARE NOT INCLUDED IN THE SCOPE OF THIS DESIGN. SUBMITTALS ARE REQUIRED BY OWNER THROUGH THEIR DESIGN PROFESSIONAL.
8. INSTALLATION AND COMPLETE WATERTIGHT WEATHER SEALING IS THE RESPONSIBILITY OF THE PURCHASER. SPECIAL CONSIDERATIONS SHOULD BE GIVEN TO LOCAL, COASTAL OR EXTREME WEATHER LOCATIONS.
9. THE BUILDING OWNER IS RESPONSIBLE FOR THE FOUNDATION PLAN. FOUNDATION LAYOUT AND CALCULATIONS TO BE COMPLETED DONE BY A LICENSED PROFESSIONAL ENGINEER. CURRENT LAYOUT IS FOR SUGGESTION / REFERENCE PURPOSES ONLY.
10. FINAL BALANCING OF THE HVAC SYSTEM TO BE COMPLETED BY OTHERS AT SITE.
11. ALL FINAL PLUMBING CONNECTIONS/MAIN SEWER MANIFOLD/INTER CONNECTIONS OF PIPING.
12. ALL FINAL ELECTRICAL CONNECTIONS INCLUDING SERVICE TO BUILDING.

IDENTIFICATION:

NOTE:. DATA PLATE, THIRD PARTY LABEL AND MBI SEAL SHALL BE PLACED ON THE INTERIOR SIDE OF THE EXTERIOR WALL @ THE HITCH END ABOVE THE T-GRID LOCATION. ALL STATE DECALS TO BE LOCATED ON PANEL BOX DOOR.

NOTES:

1. SITE PLAN NOT AVAILABLE AT THIS TIME. BUILDING DESIGNED TO HAVE FIRE SEPARATION DISTANCE GREATER THAN 10 FT. IN ACCORDANCE WITH THE IBC.
2. BUILDING WILL NOT BE LOCATED IN A FLOOD HAZARD AREA.
3. BUILDING SHALL NOT BE SITED WHERE LOCAL CONDITIONS EXCEED THE DESIGN PARAMETERS.
4. PLAN MAY BE MIRRORED AND/OR REVERSED.
5. SEE STRUCTURAL PACKAGE FOR ALL STRUCTURAL STANDARDS AND DETAILS FOR FRAMES.
6. SEE DESIGN MANUAL FOR ALL FASTENING STANDARDS AND DETAILS FOR WOOD FRAMING.
7. IBC COMPLIANCE FOR INTERIOR WALL PARTITIONS 2024 IBC - 1607.16 Interior Walls & Partitions.
8. A MINIMUM OF 40% SOLAR-READY ZONE AREA OF 1728 SQ. FT. IS PROVIDED AS REQUIRED BY COLORADO MODEL SOLAR AND ELECTRIC READY CODE.
9. BUILDING PARKING IS NOT WITHIN THE SCOPE OF THIS DESIGN. EV PARKING TO BE ON SITE BY OTHERS; REVIEWED, INSPECTED AND APPROVED BY THE LOCAL JURISDICTION HAVING AUTHORITY.
10. RACEWAYS AND WIRING FOR EV CHARGING STATION TO BE ON SITE BY OTHERS. INSTALLATION REVIEW, INSPECTION AND APPROVAL BY LOCAL JURISDICTION HAVING AUTHORITY.

2024 ENERGY DESIGN INFORMATION: CO.

CLIMATE ZONE: 5b window and glazed door area 10 percent or less

1. R-VALUES TO COMPLY WITH 2024 IECC TABLE: C402.1.3 AND/OR DOE'S BUILDING ENERGY CODE PROGRAM.
2. SWITCHING SCHEMES SHALL BE PER ELECTRICAL PLAN.
3. EQUIPMENT EFFICIENCIES: HVAC MUST COMPLY WITH C403.3.2 AND TABLE C403.3.2(1) OF THE 2024 IECC.
4. WATER HEATING COMPONENTS SHALL BE PER SECTION C404 OF THE 2024 IECC TO BE CONSISTENT WITH THE NATIONAL APPLIANCE ENERGY CONSERVATION ACT OF 1987.
5. SYSTEM CONTROLS: HEATING AND COOLING SYSTEMS SHALL BE PROVIDED WITH PROGRAMMABLE THERMOSTAT PER SECTION C403.4.1 OF THE 2024 IECC.
6. OUTDOOR AIR VENTILATION RATES SHALL COMPLY WITH TABLE 403.3 OF THE 2024 IMC.
5*(5/1000)*4320)+4320*0.06=367 CFM
7. DUCT INSULATION SHALL COMPLY WITH SECTION C403.12.1 OF THE 2024 IECC:
R-6 INSULATION WHEN LOCATED IN UNCONDITIONED SPACE.
R-12 INSULATION WHEN LOCATED OUTSIDE BUILDING ENVELOPE.
8. DUCT SEALING MUST COMPLY WITH SECTION C403.12.1 OF THE 2024 IMC.

AMTEX
832 EAST WALNUT ST. - GARLAND, TX 75040
PH 972-276-7626 - FAX 972-526-0457
SUNBELT MODULAR, INC.

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DEALER: MOBILE MODULAR

PROJECT: HAVEN HOUSE OF MONTROSE (DAYCARE - 2026)

PROJECT #: MM9052-1

STATES: CO.

SERIAL NUMBERS: #19474-82

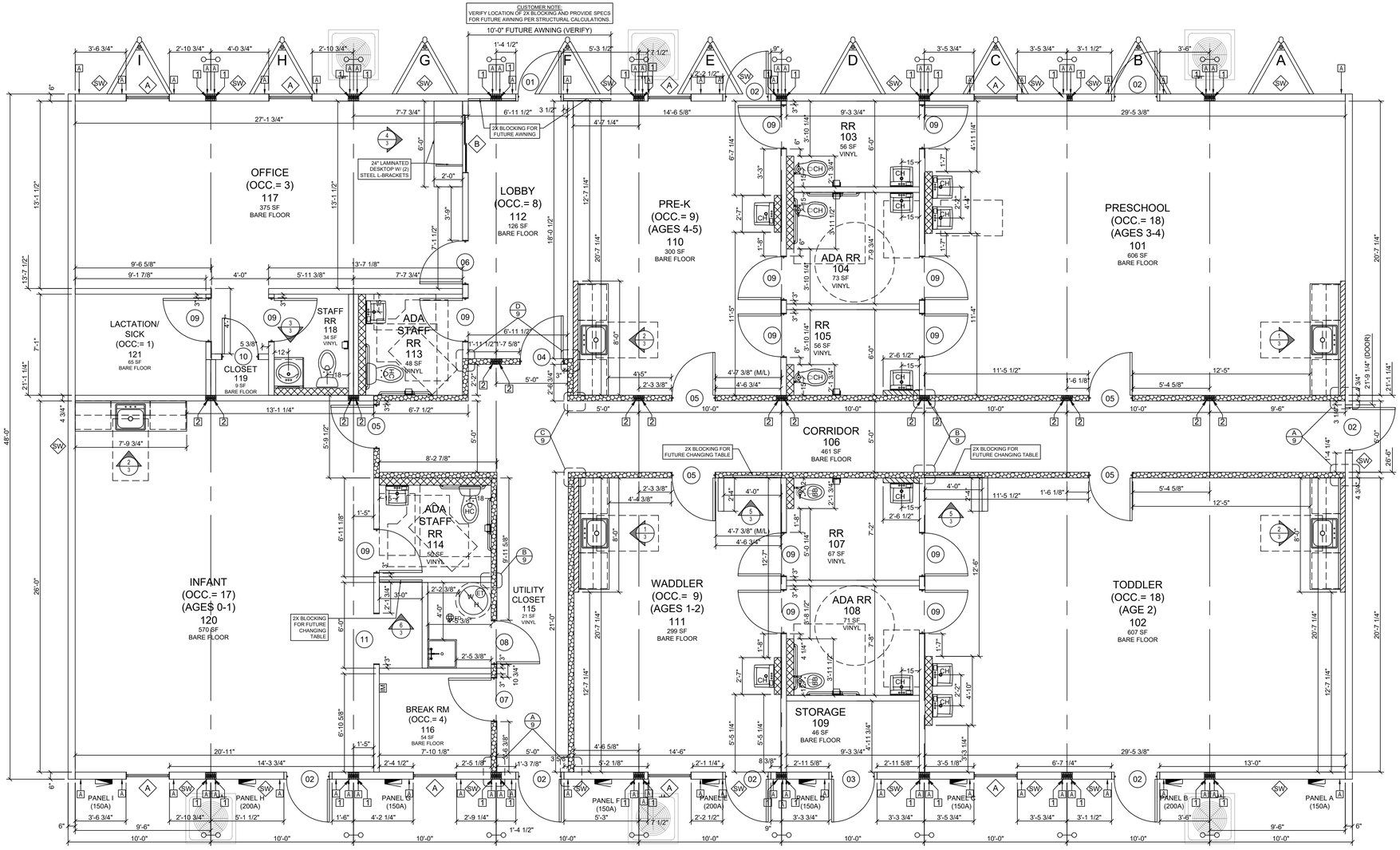
DRAWN BY: ELV

PLOT DATE: 7/24/2026

REV # / DATE:
06/23: PRELIM. BLKG.
07/24: DRAWINGS

SHAYLON VAUGHN, P.E.
CORPORATE ENGINEER
5301 W. MADISON ST.
PHOENIX, AZ 85043
(602) 447-6460

SHEET: 1 *OF* 18



1 FLOOR PLAN

1/4"=1'-0" SQUARE FOOTAGE - 4320 S.F.
OCCUPANCY LOAD = 87

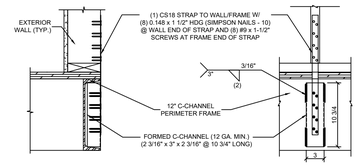
HATCHING LEGEND:

- FULL HEIGHT 1-HR. RATED 2X4 INTERIOR WALL W/ 5/8" VCG - TYPE X GYPSUM (BOTH SIDES). (9'-3" & PONY WALL) (FIRE TAPE & CAULK AS REQUIRED)
- 9'-3" HEIGHT 2X4 CHASE WALL W/ R-11 INSULATION.
- 9'-3" HEIGHT 2X6 CHASE WALL W/ R-11 INSULATION.
- 9'-3" HEIGHT 2X4 INTERIOR WALL W/ R-11 UNFACED INSULATION

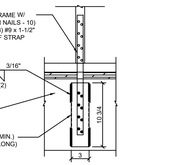
STRUCTURAL LEGEND

ALL INTERIOR DIMENSIONS ARE FROM FINISH TO FINISH & ALL EXTRIOR DIMENSIONS ARE FROM STUD TO STUD

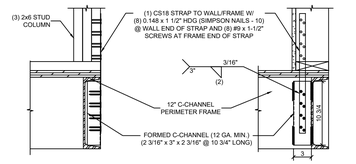
Symbol	Description	Qty
SW	SHEARWALL TAG (SEE CROSS SECTION FOR FASTENING)	TYP @ 20 LOCATIONS
A	HOLD DOWN STRAP (SEE DETAIL)	TYP @ 68 LOCATIONS
1	(3) 2x6 SYP #2 POST ON EACH SIDE OF MATELINE ATTACHED WITH (2) CS18 STRAPS TOP & BOTTOM FASTENED WITH (8) 10d NAILS AT EACH END OF STRAPS	TYP @ 33 LOCATIONS
2	(3) 2x4 SYP #2 POST ON EACH SIDE OF MATELINE ATTACHED WITH (2) CS18 STRAPS TOP & BOTTOM FASTENED WITH (8) 10d NAILS AT EACH END OF STRAPS	TYP @ 16 LOCATIONS
	DIAPHRAGM CHORD TIE SIMPSON 'HTT4' (SEE DETAIL 3/2)	TYP @ 16 LOCATIONS



A HOLD DOWN STRAP 1" = 1'-0"



A1 HOLD DOWN STRAP 1" = 1'-0"



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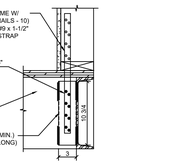

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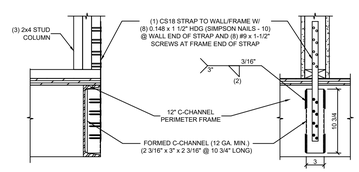

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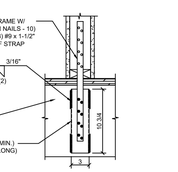

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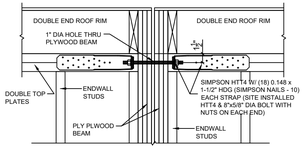

3 ROOF DIAPHRAGM MATELINE CHORD TIE

N.T.S.

2 TILE PATTERN (VCT)

N.T.S. (SEE COLOR SELECTIONS)

DOORS:

Qty	NO.	Type	Jamb	Wall Thickness	Glazing	Size	Rough Opening	U-Factor	Color	Closer	Deadbolt	Hardware	Fire Rating	Keying	Notes
1	01	MEDIUM STYLE STOREFRONT	BRONZE	6 7/16"	DUAL GLAZED, LOW E	3/0X7/0	40" x 86"	TBD	BRONZE OR CLEAR ANODIZE	HYDRAULIC	SINGLE CYLINDER	STD. PUSH / PULL	NONE	SEPERATE & MASTER KEY	DRIP CAP, (3) STOREFRONT HINGES, WEATHERSTRIPPING, THRESHOLD, & DOOR SWEEP (AMTEX DOES NOT WARRANTY STOREFRONT DOORS AGAINST WATER INTRUSION OR RESULTING WATER DAMAGES) (INCLUDE SIGN: "THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED")
7	02	COMMERCIAL STEEL, INSULATED 18 GA.	16 GA.	6 7/16"	SNG GLAZE CLEAR 1/4X24X24 TEMPERED PANE (43" MAX TO BTM.)	3/0X6/8	40 1/2" x 82 1/2"	0.35	SW COLOR (SEE SELECTIONS) (DOOR/JAMB B.S.)	HYDRAULIC	NONE	EXIT DEVICE (PANIC) TELL 8300B SERIES W/ ENTRY TRIM CTL881 (LEVER)	NONE	SEPERATE & MASTER KEY	DRIP CAP, HINGES, WEATHERSTRIPPING, THRESHOLD, & DOOR SWEEP
1	03	COMMERCIAL STEEL, INSULATED 18 GA.	16 GA.	6 7/16"	NONE	3/0X6/8	40 1/2" x 82 1/2"	0.35	SW COLOR (SEE SELECTIONS) (DOOR/JAMB B.S.)	HYDRAULIC	SINGLE CYLINDER, TELL GRADE 2	PASSAGE LEVER, TELL GRADE 2	NONE	SEPERATE & MASTER KEY	DRIP CAP, HINGES, WEATHERSTRIPPING, THRESHOLD, & DOOR SWEEP
1	04	LEGACY SOLID CORE	TIMELY METAL FRAME BROWNTONE	4 3/4"	1/4" X 6" X 16" FIRE-LITE (MAX.: 100 SQ. IN.) (43" MAX TO BTM.)	3/0X6/8	37 1/4" x 81"	N/A	OAK OR WALNUT	HYDRAULIC	NONE	EXIT DEVICE (PANIC) TELL 8300B SERIES W/ ENTRY TRIM CTL881 (LEVER)	20 MIN.	N/A	HINGES, FLOOR MOUNT STOPS, & SMOKE SEALS
5	05	LEGACY SOLID CORE	TIMELY METAL FRAME BROWNTONE	4 3/4"	1/4" X 6" X 16" FIRE-LITE (MAX.: 100 SQ. IN.) (43" MAX TO BTM.)	3/0X6/8	37 1/4" x 81"	N/A	OAK OR WALNUT	HYDRAULIC	NONE	CLASSROOM LOCK LEVER, TELL GRADE 2	20 MIN.	SEPERATE & MASTER KEY	HINGES, FLOOR MOUNT STOPS, & SMOKE SEALS
1	06	LEGACY SOLID CORE	TIMELY METAL FRAME BROWNTONE	4 3/4"	1/4" X 6" X 27" TEMPERED PANE (43" MAX TO BTM.)	3/0X6/8	37 1/4" x 81"	N/A	OAK OR WALNUT	NONE	NONE	LOCK LEVER, TELL GRADE 2	NONE	SEPERATE & MASTER KEY	HINGES & FLOOR MOUNT STOPS
1	07	LEGACY SOLID CORE	TIMELY METAL FRAME BROWNTONE	4 3/4"	NONE	3/0X6/8	37 1/4" x 81"	N/A	OAK OR WALNUT	HYDRAULIC	NONE	PASSAGE LEVER, TELL GRADE 2	20 MIN.	NONE	HINGES, FLOOR MOUNT STOPS, & SMOKE SEALS
1	08	LEGACY SOLID CORE	TIMELY METAL FRAME BROWNTONE	4 3/4"	NONE	3/0X6/8	37 1/4" x 81"	N/A	OAK OR WALNUT	HYDRAULIC	NONE	STORE ROOM LEVER, TELL GRADE 2	45 MIN.	NONE	HINGES, FLOOR MOUNT STOPS, & SMOKE SEALS
14	09	LEGACY SOLID CORE	TIMELY METAL FRAME BROWNTONE	4 3/4"	NONE	3/0X6/8	37 1/4" x 81"	N/A	OAK OR WALNUT	NONE	NONE	PRIVACY LEVER, TELL GRADE 2	NONE	NONE	HINGES & FLOOR MOUNT STOPS
1	10	LEGACY SOLID CORE	TIMELY METAL FRAME BROWNTONE	4 3/4"	NONE	2/6X6/8	37 1/4" x 81"	N/A	OAK OR WALNUT	NONE	NONE	PASSAGE LEVER, TELL GRADE 2	NONE	NONE	HINGES & FLOOR MOUNT STOPS
1	11	FINISHED OPENING	5/8" VCG	4 3/4"	N/A	3/6X6/8	43 1/4" x 80 5/8"	N/A	VCG	N/A	N/A	N/A	N/A	N/A	NONE

WINDOWS:

Qty	NO.	Type	Glazing	Size	Rough Opening	U-Factor	SHGC	Mini-Blind	Notes
8	A	VINYL VERTICAL SLIDER (CLAY OR WHITE)	CLEAR, DUAL GLAZED, LOW-E	3/0X5/0	36 1/2" x 60 1/2"	0.34	0.23	34 1/2" X 60" HORIZONTAL ALUMINUM, COLOR: (SEE COLOR SELECTIONS)	HEADER AT 80" AFF
1	B	INT. SLIDING GLASS (MILL FINISH)	CLEAR, DUAL GLAZED, TEMPERED	4/0X3/0	48 1/2" x 36 1/2"	N/A	N/A	NONE	HEADER AT 70" AFF GLASS SIZE: (2) 24 5/8" X 45 3/4"

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832 EAST WALNUT ST. - GARLAND, TX 75040
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SUNBELT MODULAR, INC.

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DEALER: MOBILE MODULAR

PROJECT: HAVEN HOUSE OF MONTROSE (DAYCARE - 2026)

PROJECT #: MM9052-1

STATES: CO.

SERIAL NUMBERS: #19474-82

DRAWN BY: ELV

PLOT DATE: 7/24/2026

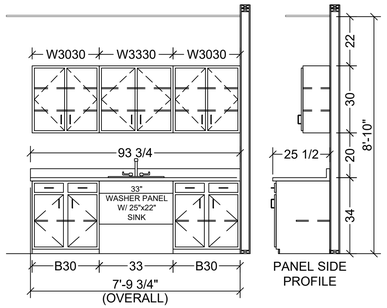
REV # / DATE:
06/23: PRELIM. BLKG.
07/24: DRAWINGS

SHAYLON VAUGHN, P.E.
CORPORATE ENGINEER
5301 W. MADISON ST.
PHOENIX, AZ 85043
(602) 447-6460

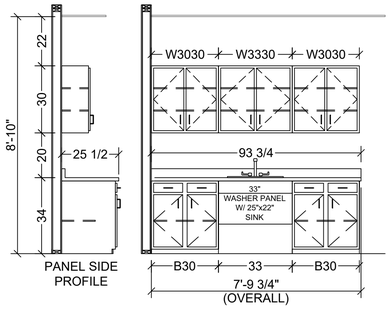
SHEET: 2 *OF* 18

ADDITIONAL ITEMS:

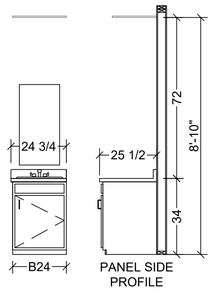
Symbol	Type	Qty	Note	Description
	Base Cabinet	1	(1) @ 24" Drop-in Lavy	Laminated base cabinets with wire pulls and (1) adjustable shelf. (Color to be: See Color Selections) Cabinets for 34" countertops. Wire pulls to be Satin. (Factory standard)
	Base Cabinet	10	(10) @ 30"	Laminated base cabinets with wire pulls and (1) adjustable shelf. (Color to be: See Color Selections) Cabinets for 34" countertops. Wire pulls to be Satin. (Factory standard)
	ADA Sink Apron	5	33"	ADA sink apron. Color to match base cabinets. (Factory standard)
	Wall Cabinet	15	(5) @ 33" (10) @ 30"	Laminated wall cabinets w/ wire pulls & (2) adjustable shelves. (Color to be: See Color Selections). Wire pulls to be Satin. (Factory standard)
	Laminate	1	72 in. (No Backsplash)	24" Laminated desktop w/ no backsplash mtd. 30" a.f.f. Color to be: (See Color Selections) (Factory standard)
	Laminate	6	(5) @ 93 3/4" (1) @ 24 3/4"	25 1/2" Laminated counertop w/ 4" backsplash. Color to be: (See Color Selections). Countertop for 34" base cabinets. (Factory standard)
	L-Brackets	2	Black	Steel L-Brackets (heavy duty) for desk-top support. Install (2) brackets per desktop.
	Blocking	1	Future Awning	2X Blocking required at storefront door for future awning. (Awning to be supplied and installed at site by others.) (Factory standard)
	Blocking	3	Classrooms 102, 111 & 120	2X Blocking required for future changing tables. (Changing tables to be supplied and installed at site by others. (Factory standard)



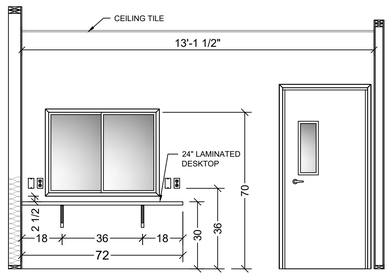
1 CABINETS @ CLASSROOMS
3/8"=1'-0" (2) REQUIRED AS SHOWN (CLASSROOMS 101 & 111)

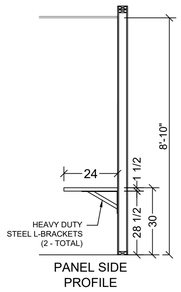


2 CABINETS @ CLASSROOMS
3/8"=1'-0" (3) REQUIRED AS SHOWN (CLASSROOMS 102, 110 & 120)

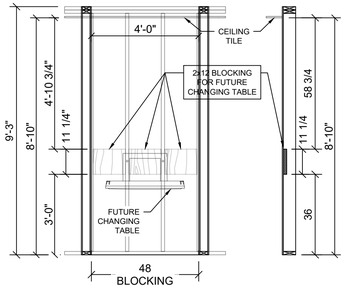


3 CABINET @ NON-ADA STAFF RR
3/8"=1'-0" (1) REQUIRED AS SHOWN (NON-ADA STAFF RESTROOM 11X)

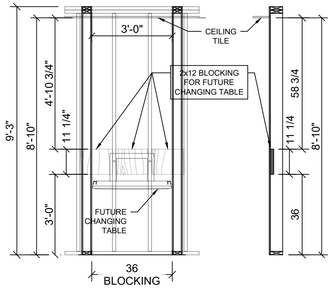




4 DESKTOP @ OFFICE
3/8"=1'-0" (1) REQUIRED AS SHOWN (DESKTOP & BRACES @ OFFICE 118)



5 FUTURE CHANGING TABLE
3/8"=1'-0" (2) REQ'D AS SHOWN (2 - LOCATIONS) (CLASSROOMS 102 & 111)

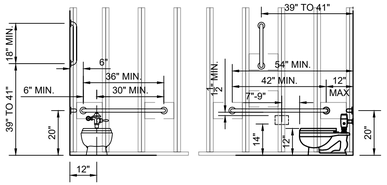


6 FUTURE CHANGING TABLE
3/8"=1'-0" (1) REQ'D AS SHOWN (1 - LOCATION) (CLASSROOMS 102 & 111)

PLUMBING:

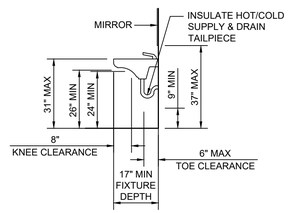
Symbol	Type	Qty	Note	Description
	Water Closet	2	ADA	Floor mtd. ADA elongated tank type with shut off valve / flush handle to be on open side of r.r. (Factory standard)
	Water Closet	1		Floor mtd. elongated tank type with shut off valve (Factory standard)
	Water Closet	3	K-96059 Juvinile Ultra Low Flow 110/111 XL Flush Valve EZ-FLO #65914 Seat or equals	Floor mtd. ADA elongated child height with flush valve and shut off valve / flush handle to be on open side of r.r. (Factory standard)
	Water Closet	2		Floor mtd. ADA baby bowl elongated tank type and shut off valve / flush handle to be on open side of r.r. (Factory standard)
	Grab Bars	2	Child	Set(s) with (1) each 42", 36" horizontal, and 18" vertical. Install double studs & 2X blocking at all grab bar connections within 2x4 walls. (Factory standard)
	Grab Bars	2		Set(s) with (1) each 42", 36" horizontal, and 18" vertical. Install double studs & 2X blocking at all grab bar connecitons within 2x4 walls. (Factory standard)
	Paper Holder	3		Single roll wall mount toilet paper holder mtd. ADA height. (Factory standard)
	Paper Holder	5	Child	Single roll chrome wall mount toilet paper holder mtd. ADA height ABOVE horizontal grab bar. (Factory standard)
CH	Lavatory	11	Mixing Valve Req'd (Child Ht.)	19" X 17" White vitreous wall hung with ADA handles and shut off valves, and ASSE-1070 3/8" temperate mixing valve mtd. 31" to top of lavy. (Factory standard)
	Lavatory	2	Mixing Valve Req'd	19" X 17" White vitreous wall hung with ADA handles and shut off valves w/ ASSE-1070 3/8" temperate mixing valve. (Factory standard)
	Lavatory	1		20" X 17" Lay-in procelain lavy with standard faucet, ADA handles, shut off valves, and ASSE-1070 3/8" temperate mixing valve. 29" Space under rim for handicap accessibility. (Factory standard)
	Sink	5		25" X 22" Stainless steel single bowl sink with single faucet, ADA handle, and shut off valves (Factory standard)
	Sink	1	Access Panel	24x24 Floor mounted mop sink with wall mounted faucet, threaded spigot for hose, hose and mop bracket, access panel and shut off valves. Access panel placed directly to the right and a max of 17" from the faucet. (Factory standard)
	Access Panel	1	Mop Sink	12" x 12" Access panel for shut off vavles at mop sink. (Factory standard)
	Mirror	3	Adult RR Lavy's	18"x36" Pencil-edge w/ clips mtd. 38" to bottom edge. (Factory standard)
	Mirror	5	Child RR Lavy's	18"x36" Pencil-edge w/ clips mtd. 34" to bottom edge. (Factory standard)
FD	2" Floor Drain	1	Utility Closet	Floor drain with trap guard. (Factory standard)
IM	Valves	1	Breakroom	Valve box for ice maker mtd. 12" a.f.f. (Factory standard) (Ice maker by others)
WH	Water Heater	1	80 Gallon	240v (4500w) 80 gal. Electric water heater with relief valve, water tight drain pan (3/4" drain), and pipe insulation (non-simulataneous operation). (Factory standard)
	Mixing Valve	13	Lavy's	ASSE-1070 3/8" temperate mixing valve installed at ALL lavatories. (Factory standard)
	Water Hammer	5	1"	Water hammer arrestor for flush valve water closets. (Factory standard)
	Recirculation Pump	1		Recirculation pump with timer and aqua stat. Supply and return piping to be insulated (R-3.7 min.) (Factory standard)
ET	Expansion Tank	1	4.5 Gallons	PLT-12 expansion tank. (Factory standard)
	In-line Strainer	1	1 1/2" - Brass	Brass strainer at supply inlet. (Factory standard)
	Supply	1	1 1/2" Inlet Overhead as Req'd	Pex with copper inlet and 1 1/2" pipe insulation as required. (Factory standard)
	DWV System	1		PVC Schedule 40 (Manifold is by others)

INSTALL DOUBLE STUDS & 2X BLOCKING @ ALL GRAB BAR CONNECTIONS WITHIN 2X4 INTERIOR WALLS. (SINGLE STUDS @ EXTERIOR WALLS IF 2X6 & GREATER)

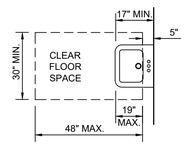


HANDICAPPED WATER CLOSET SIDE VIEW (BABY BOWL / AGES: 3 & 4)

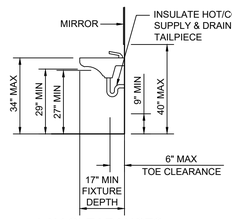
HANDICAPPED WATER CLOSET SIDE VIEW (BABY BOWL / AGES: 3 & 4)



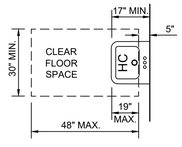
LAV CLEARANCES (AGES 3 THRU 4)



CLEAR FLOOR SPACE AT LAVATORIES (AGES 3 THRU 4)

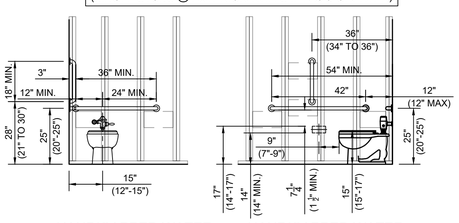


LAV CLEARANCES



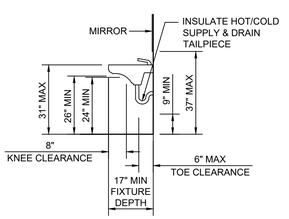
CLEAR FLOOR SPACE AT COUNTERTOP LAVATORIES

INSTALL DOUBLE STUDS & 2X BLOCKING @ ALL GRAB BAR CONNECTIONS WITHIN 2X4 INTERIOR WALLS. (SINGLE STUDS @ EXTERIOR WALLS IF 2X6 & GREATER)

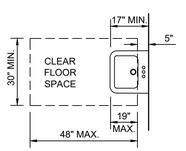


HANDICAPPED WATER CLOSET FRONT VIEW (AGES 5 THRU 8)

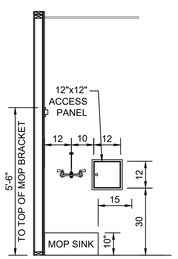
HANDICAPPED WATER CLOSET SIDE VIEW (AGES 5 THRU 8)



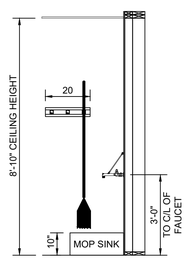
LAV CLEARANCES (AGES 5 THRU 8)



CLEAR FLOOR SPACE AT LAVATORIES (AGES 5 THRU 8)

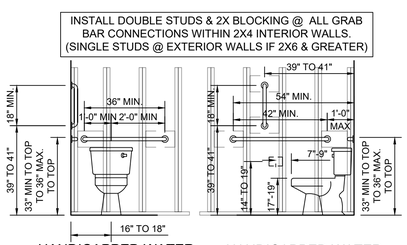


MOP/BROOM HOLDER (3 HOLDERS) FRONT VIEW



MOP/BROOM HOLDER (3 HOLDERS) SIDE VIEW

INSTALL DOUBLE STUDS & 2X BLOCKING @ ALL GRAB BAR CONNECTIONS WITHIN 2X4 INTERIOR WALLS. (SINGLE STUDS @ EXTERIOR WALLS IF 2X6 & GREATER)



HANDICAPPED WATER CLOSET FRONT VIEW (ADULT HT.)

HANDICAPPED WATER CLOSET SIDE VIEW (ADULT HT.)

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DEALER:
MOBILE MODULAR

PROJECT:
HAVEN HOUSE OF MONTROSE (DAYCARE - 2026)

PROJECT #:
MM9052-1

STATES:
CO.

SERIAL NUMBERS:
#19474-82

DRAWN BY:
ELV

PLOT DATE:
7/24/2026

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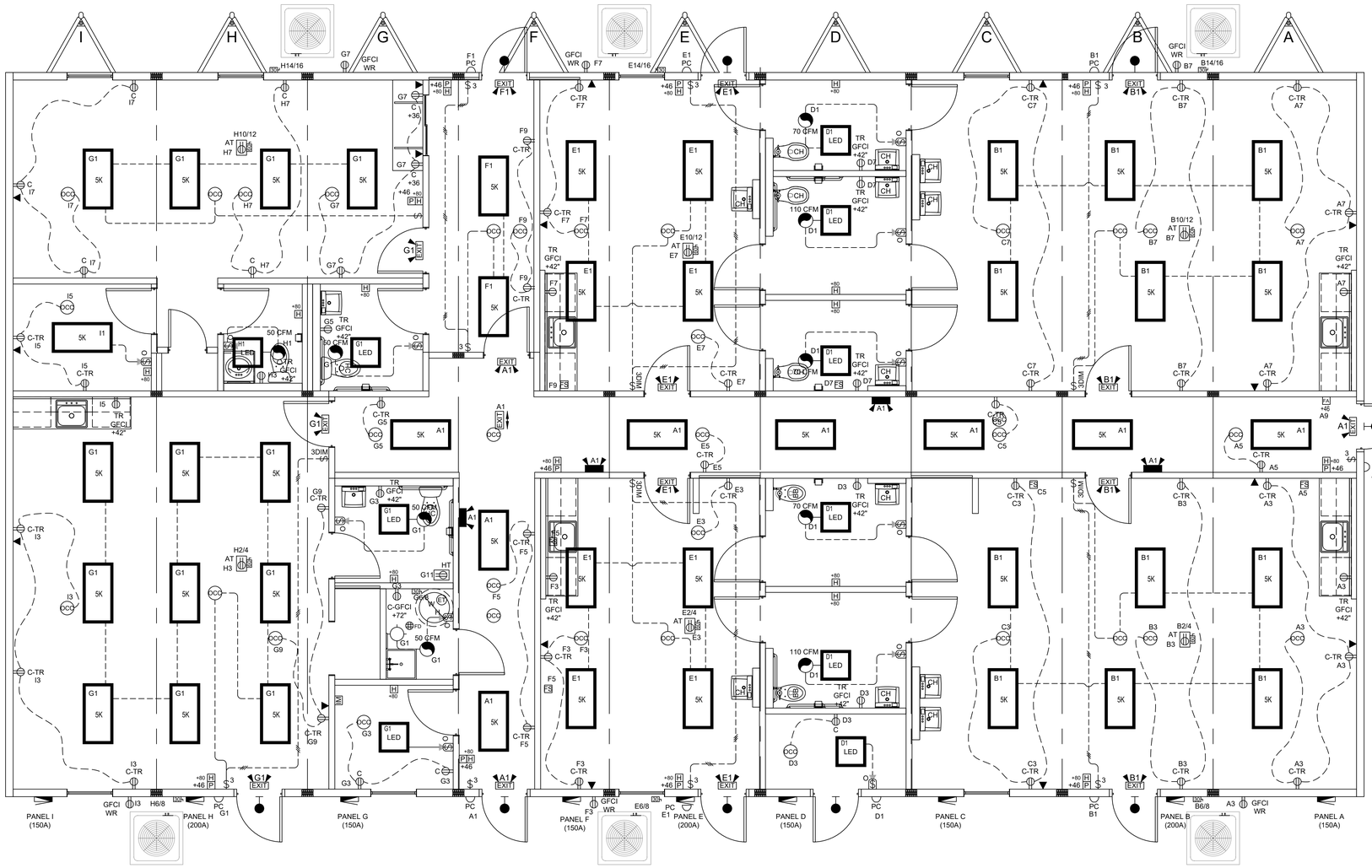
SHEET:
3
OF
18



1 ELECTRICAL PLAN
1/4"=1'-0"

PANEL GROUNDING	
PANEL:	GRND:
100A:	#8
125A:	#6
150A:	#6
200A:	#4
300A:	#2
400A:	#1/0
600A:	#2/0

NOTE:
1. ALL A.F.F. DIMENSIONS ARE TO THE BOTTOM OF THE DEVICE BOX UNLESS NOTED OTHERWISE (REFER TO SCHEDULE AND PLANS FOR HEIGHTS).
2. ALL ELECTRICAL ITEMS ARE FACTORY STANDARD UNLESS NOTED OTHERWISE.
3. BLANK COVERS WILL BE PROVIDED ON J-BOXES UNLESS NOTED OTHERWISE.
4. ALL EXTERIOR ELECTRICAL DEVICES TO BE WEATHERPROOF.
5. ELECTRICAL DEVICE UNOBSTRUCTED REACH HEIGHT(S):
   5.1. ADULTS: 15" MIN. TO 48" MAX

ELECTRICAL:

Symbol	Type	Qty	Note	Description
	Elec Service	1		120/240V 60 HZ. single phase
	Elec Raceway	1		MC Cable/flex with min. #12 THWN wire
	Elec Panel	6	150 Amp (Remainder)	120/240v 1 PH 150 Amp panel w/ 150 Amp main breaker. Exterior NEMA 3R mounted 15" a.f.f. (60" above grade) to top of main breaker. (Grade assumed to be 36" to finished floor). (Factory standard)
	Elec Panel	3	200 Amp (Floors B, E & H)	120/240v 1 PH 200 Amp panel w/ 200 Amp main breaker. Exterior NEMA 3R mounted 15" a.f.f. (60" above grade) to top of main breaker. (Grade assumed to be 36" to finished floor). (Factory standard)
30	Elec. Disconnect	4	Condensor	30a/240v Non-fused exterior NEMA-3R electrical disconnect mtd. 15" a.f.f. for condensor unit. (Factory standard)
30	Elec. Disconnect	2	Condensor Floor E (Hitch & Rear)	30a/240v Non-fused exterior NEMA-3R electrical disconnect mtd. 6" a.f.f. for condensor unit. (Factory standard)
30	Elec. Disconnect	1	Water Heater	30a/240v Non-fused exterior NEMA-3R electrical disconnect mtd. 60" a.f.f. for condensor unit. (Factory standard)
60	Elec. Disconnect	6	Air-Handler (Attic)	60a/240v Non-fused exterior NEMA-3R electrical disconnect mtd. to rafters for air handler. (Factory standard)
5K	Lights	44	5000 Lumen	2'x4' Flat Panel LED recessed lay-in with dimmable electronic ballast and adjustable lumen selector (4K, 5K or 6K) (Factory standard) (Input wattage=50)

ELECTRICAL:

Symbol	Type	Qty	Note	Description
LED	Lights	10	4000 Lumen	2'x2' Flat Panel LED recessed lay-in with dimmable electronic ballast. (Factory standard) (Input wattage=40)
PC	Exterior Lights	9		12W LED porch light with photocell mtd. 86" a.f.f. (Factory standard)
	Lights	1	Utility Closet	11W Surface mounted 1100 lumen LED light. (Factory standard)
EXIT	Emerg. Light	15	Green lens	Combo dual emergency light/exit sign with battery backup mtd. 88" a.f.f. (Factory standard)
	Emerg. Light	9		Exterior remote head mtd. 90" a.f.f. (Factory standard)
EXIT	Exit Sign	1	Green lens	120v with battery backup. (Factory standard)
	Emerg. Light	4		Interior double head battery pack mtd. 88" a.f.f. (Factory standard)
$	Switch	1	Office	20a/120v Standard single toggle w/ cover plate mtd. 42" a.f.f. (Factory standard)
$3	Switch	9	(5) @ Classroom (4) @ Exits	20a/120v 3-Way wall mtd. single toggle w/ cover plate mtd. 42" a.f.f. (Factory standard)
$	Switch	12		20a/120v Wall mtd. occupancy / vacancy sensor w/ cover plate mtd. 42" a.f.f.. (Factory standard)
$3DIM	Switch	5	Classrrom	Wall mtd. 3-way dimming w/ cover plate mtd. 42" a.f.f. (Factory standard)
OCC	Occupancy Sensor	34	(7) @ Lights (23) @ Receps	Ceiling mounted occupancy sensor. (Factory standard)

ELECTRICAL:

Symbol	Type	Qty	Note	Description
C	Receptacle	2	Controlled (Office)	20a/125v Controlled duplex receptacle w/ cover plate mtd. 36" a.f.f.. (Bottom outlet to be regular & Top outlet to be controled). (Factory standard)
C	Receptacle	9	Controlled (Office, Breakroom & Storage)	20a/125v Controlled duplex receptacle w/ cover plate mtd. 15" a.f.f.. (Bottom outlet to be regular & Top outlet to be controled). (Factory standard)
GFCI WR	Receptacle	6	Condensor	20a/120v GFCI 'WR' rated exterior receptacle with weatherproof extra duty in-use cover mtd. 15" a.f.f. (Factory standard)
TR-C	Receptacle	35	Controlled & Tamper Resis.	20a/120v Controled-Tamper resistant duplex w/ cover plate mtd. 15" a.f.f. (Bottom outlet to be regular & Top outlet to be controled.) (Factory standard)
TR GFCI	Receptacle	13		20a/120v GFCI - Tamper resistant duplex w/ cover plate mtd. 42" a.f.f. (Factory standard)
TR GFCI	Receptacle	1	Recirc. Pump	20a/120v GFCI Tamper resistant duplex w/ cover plate mtd. 72" a.f.f. (Factory standard)
AT	Receptacle	6	Air-Handler (Attic)	20a/120v GFCI 'WR' rated exterior receptacle with weatherproof extra duty in-use cover mtd. to rafter in attic for service receptacle at air-handler. (Factory standard)
HT	Receptacle	1	Supply Inlet	20a/120v GFCI protected 'WR' rated weatherproof heat tape receptacle below unit. (GFCI breaker at panel). (Factory standard)
	J-Box	14	3/4" ENT stubbed above ceiling & below floor	2x4 Empty box w/ blank cover plate mtd. 15" a.f.f. for future phone/date (Factory standard)

ELECTRICAL:

Symbol	Type	Qty	Note	Description
	J-Box	2	3/4" ENT stubbed above ceiling & below floor (Office)	2x4 Empty box w/ blank cover plate mtd. 36" a.f.f. for future phone/date (Factory standard)
FA	J-Box	1	Side Entrance	20a/120v 4x4 Wired j-box w/ sng gang mud ring, and cover plate mtd. 46" a.f.f. for future fire alarm control panel provided by fire alarm installer (Factory standard)
P	J-Box	10	3/4" ENT stubbed above ceiling ONLY	4X4 Empty J-box w/ sng gang mud ring, cover plate and 3/4" EMT stubbed above ceiling mtd. 46" a.f.f. for pull station by alarm provider (Factory standard)
H	J-Box	20	3/4" ENT stubbed above ceiling ONLY	4X4 Empty J-box w/ extension ring, cover plate and 3/4" EMT stubbed above ceiling mtd. 80" a.f.f. for horn / strobe by alarm provider (Factory standard)
FS	J-Box	6	For fire/smoke dampers	20a/120v 4x4 Wired box w/ sng gang mud ring and cover plate mtd. to rafters (Factory standard)
	Exhaust Fan	3		70 CFM Ceiling mounted / vent thru roof. (Factory standard)
	Exhaust Fan	4		50 CFM Ceiling mounted / vent thru roof. (Factory standard)
	Exhaust Fan	2		110 CFM Ceiling mounted / vent thru roof with humidity sensor. (Factory standard)
	Device Color	1		Color to be: (T.B.D. @ VCG & T.B.D. @ FRP) / Exterior device(s) and mansonry boxes with metal cover plate as applicable.

AMTEX
632 EAST WALNUT ST. - GARLAND, TX 75040
PH 972-276-7626 - FAX 972-526-0457
SUNBELT MODULAR, INC.

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DEALER:
MOBILE MODULAR

PROJECT:
HAVEN HOUSE OF MONTROSE (DAYCARE - 2026)

PROJECT #:
MM9052-1

STATES:
CO.

SERIAL NUMBERS:
#19474-82

DRAWN BY:
ELV

PLOT DATE:
7/24/2026

REV # / DATE:
06/23: PRELIM. BLKG.
07/24: DRAWINGS

SHAYLON VAUGHN, P.E.
CORPORATE ENGINEER
5301 W. MADISON ST.
PHOENIX, AZ 85043
(602) 447-6460

Main Breaker: 22kAIC — **150 AMP 120/240V 1 PHASE** — **EXTERIOR: NEMA 3R**
Branch Breakers: 10kAIC — **PANEL WITH 150 AMP MAIN BREAKER**

WS	Description	Circuit	BRK	A	B	BRK	Circuit	Description	WS
12	**Lights @ Corridor**	1	20	414			2		
12	**Controlled Receps @ Classroom 102**	3	20		900		4		
12	**Controlled Recep @ Cor. 106 & Fire/Smoke Damper**	5	20	360			6		
12	**Controlled Receps @ Classroom 101**	7	20		720		8		
12	**F.A.C.P.**	9	20	144			10		
		11					12		
		13				60	14	**Ded. 60Amp Breaker (Future Solar Power)**	6
		15				2	16		
		17				60	18	**Ded. 60Amp Breaker (Future EV Parking)**	6
		19		7200		2	20		
				8118	8820	Total			
				68	74				

ELECTRICAL CALCULATION: — **PANEL A**

GENERAL LIGHTING:

461	SQ. FT. x 1.3	= 599	watts
0	SQ. FT. x 1.3	= 0	watts
0	HVAC UNITS	= 0	watts
0	W.H. x 125%	= 0	watts
11	RECEPS	= 1980	watts
1	Alarm Panel	= 144	watts
1	Future EV Parking (	= 14400	watts
1	Future Solar Power	= 0	watts
		17123	watts

TYPE OF PANEL: **LOAD CENTER**

divide by 240 volts= 71 AMPS TOTAL

Circuit	QTY	ITEM		WATTS	TOTAL
-	0	2x2 LED	x	40	0 watts
1	8	**2x4 4.9K LED**	x	40	320 watts
-	0	2x4 5.5K LED	x	50	0 watts
1	2	**28W LED Porch Light**	x	26	52 watts
-	0	Exhaust Fan & Light	x	216	0 watts
-	0	Exhaust Fan 110 cfm	x	156	0 watts
-	0	Exhaust Fan 300 cfm	x	212	0 watts
3	5	**Recept Duplex**	x	180	900 watts
5	2	**Recept Duplex**	x	180	360 watts
7	4	**Recept Duplex**	x	180	720 watts
-	0	**Recept Duplex**	x	180	0 watts
-	0	**Recept Duplex**	x	180	0 watts
-	0	**Recept Duplex**	x	180	0 watts
-	0	40 Gal Water Heater	x	5625	0 watts
-	0	Res. Microwave	x	1350	0 watts
-	0	Res. Microwave	x	1350	0 watts
14,16	1	**Future Solar Power (240)**	x	0	0 watts
18,20	1	**Future EV Parking (240)**	x	14400	14400 watts
1	6	**Emergency / Exit**	x	5	30 watts
-	1	**Alarm Panel**	x	144	144 watts
-	0	3 Ton AC Unit w/ 15KW	x	16320	0 watts
-	0	4 Ton AC Unit w/ 10KW	x	11328	0 watts
-	0	5 Ton AC Unit w/ 10KW	x	11520	0 watts
-	0	3 Ton AC Unit w/ 5KW	x		w atts
-	0	3 Ton AC Unit w/ 10KW	x		w atts
-	0	4 Ton AC Unit w/ 10KW	x		w atts
-	0	3 Ton Unit w/ 10KW	x		w atts
-	0	3 Ton Unit w/ 10KW	x		w atts
-	0	5 Ton Unit w/ 10KW	x		w atts
-	0	9K BTU Single Zone Minisplit Unit	x	1920	0 w atts
-	0	24K BTU Multi Zone Minisplit Unit	x	3264	0 w atts
			Total Watts:		16938
		PANEL A	Total Amps:		**71**

Main Breaker: 22kAIC — **200 AMP 120/240V 1 PHASE** — **EXTERIOR: NEMA 3R**
Branch Breakers: 10kAIC — **PANEL WITH 200 AMP MAIN BREAKER**

WS	Description	Circuit	BRK	A	B	BRK	Circuit	Description	WS
12	**Lights**	1	20	408			2	**Air Handler (3-ton) (240v)**	6
12	**Controlled Receps @ Classroom 102**	3	20	6240	540		4		
		5			6240	2	6	**Condensor (3-ton) (240v)**	10
12	**Controlled Receps @ Classroom 101**	7	20	1872	720		8		
		9			1872	2	10	**Air Handler (3-ton) (240v)**	6
		11		6240			12		
		13			6240	2	14	**Condensor (3-ton) (240v)**	10
		15		1872			16		
		17			1872	2	18		
		19					20		
				16632	17484	Total			
				139	146				

ELECTRICAL CALCULATION: — **PANEL B**

GENERAL LIGHTING:

1213	SQ. FT. x 1.3	= 1577	watts
0	SQ. FT. x 1.3	= 0	watts
4	HVAC UNITS	= 32448	watts
0	W.H. x 125%	= 0	watts
7	RECEPS	= 1260	watts
0		= 0	watts
0		= 0	watts
0		= 0	watts
35285			watts

TYPE OF PANEL: **LOAD CENTER**

divide by 240 volts= 147 AMPS TOTAL

Circuit	QTY	ITEM		WATTS	TOTAL
-	0	2x4 4.4K LED	x	30	0 watts
1	12	**2x4 4.4K LED**	x	30	360 watts
-	0	LED Dome Light	x	24	0 watts
1	2	**12W LED Porch Light**	x	13	26 watts
-	0	12W LED Porch Light	x	13	0 watts
-	0	Exhaust Fan 70 cfm	x	138	0 watts
-	0	Exhaust Fan 150 cfm	x	180	0 watts
3	3	**Recept Duplex**	x	180	540 watts
-	0	Recept Duplex	x	180	0 watts
7	4	**Recept Duplex**	x	180	720 watts
-	0	Recept Duplex	x	180	0 watts
-	0	Recept Duplex	x	180	0 watts
-	0	Recept Duplex	x	180	0 watts
-	0	06 Gal Water Heater	x	2062.5	0 watts
-	0	CMT-2.5 Gal Mini Tank Water Heater	x	1440	0 watts
Varies	2	**Air Handler (3-ton) (240v)**	x	12480	24960 watts
Varies	2	**Condensor (3-ton) (240v)**	x	3744	7488 watts
-	0	Res. Range Hood	x	300	0 watts
1	2	**Emergency / Exit W Remote Head**	x	6	12 watts
1	2	**Emergency / Exit**	x	5	10 watts
-	0	Smoke & Heat Detectors	x	6	0 watts
-	0	3 Ton AC Unit w/ 10KW	x	11328	0 watts
-	0	4 Ton AC Unit w/ 10KW	x	11328	0 watts
-	0	5 Ton AC Unit w/ 10KW	x	11520	0 watts
-	0	3 Ton AC Unit w/ 5KW	x		w atts
-	0	3 Ton AC Unit w/ 10KW	x		w atts
-	0	4 Ton AC Unit w/ 10KW	x		w atts
-	0	3 Ton Unit w/ 10KW	x		w atts
-	0	3 Ton Unit w/ 10KW	x		w atts
-	0	5 Ton Unit w/ 10KW	x		w atts
-	0	9K BTU Single Zone Minisplit Unit	x	1920	0 w atts
-	0	24K BTU Multi Zone Minisplit Unit	x	3264	0 w atts
			Total Watts:		34116
			0 Total Amps:		**142**

Main Breaker: 22kAIC — **150 AMP 120/240V 1 PHASE** — **EXTERIOR: NEMA 3R**
Branch Breakers: 10kAIC — **PANEL WITH 150 AMP MAIN BREAKER**

WS	Description	Circuit	BRK	A	B	BRK	Circuit	Description	WS
		1		99			2		
12	**Controlled Receps @ Classroom 102**	3	20		360		4		
12	**Controlled Recep @ Cor. 106 & Fire/Smoke Damper**	5	20	360			6		
12	**Controlled Receps @ Classroom 101**	7	20		360		8		
		9					10		
		11					12		
		13				60	14	**Ded. 60Amp Breaker (Future Solar Power)**	6
		15				2	16		
		17		7200		60	18	**Ded. 60Amp Breaker (Future EV Parking)**	6
		19				2	20		
				7560	7920	Total			
				63	66				

ELECTRICAL CALCULATION: — **PANEL C**

GENERAL LIGHTING:

0	SQ. FT. x 1.3	= 0	watts
0	SQ. FT. x 1.3	= 0	watts
0	HVAC UNITS	= 0	watts
0	W.H. x 125%	= 0	watts
6	RECEPS	= 1080	watts
0		= 0	watts
1	Future EV Parking (	= 14400	watts
1	Future Solar Power	= 0	watts
15480			watts

TYPE OF PANEL: **LOAD CENTER**

divide by 240 volts= 65 AMPS TOTAL

Circuit	QTY	ITEM		WATTS	TOTAL
-	0	2x2 LED	x	40	0 w atts
1	1	**2x4 4.9K LED**	x	40	80 w atts
-	0	2x4 5.5K LED	x	50	0 w atts
1	1	**12W LED Porch Light**	x	13	13 watts
-	0	Exhaust Fan 70 cfm	x	138	0 w atts
-	0	Exhaust Fan 110 cfm	x	156	0 w atts
-	0	Exhaust Fan 300 cfm	x	212	0 w atts
3	4	**Recept Duplex**	x	180	720 watts
5	4	**Recept Duplex**	x	180	720 watts
7	4	**Recept Duplex**	x	180	720 watts
9	3	**Recept Duplex**	x	180	540 watts
-	0	Recept Duplex	x	180	0 w atts
-	0	Recept Duplex	x	180	0 w atts
-	0	40 Gal Water Heater	x	5625	0 w atts
-	0	Res. Microwave	x	1350	0 w atts
-	0	Res. Microwave	x	1350	0 w atts
14,16	1	**Future Solar Power (240)**	x	0	0 w atts
18,20	1	**Future EV Parking (240)**	x	14400	14400 w atts
-	0	Emergency / Exit W Remote Head	x	6	0 w atts
-	0	Emergency / Exit	x	5	0 w atts
-	0	Alarm Panel	x	144	0 w atts
-	0	3 Ton AC Unit w/ 15KW	x	16320	0 w atts
-	0	4 Ton AC Unit w/ 10KW	x	11328	0 w atts
-	0	5 Ton AC Unit w/ 10KW	x	11520	0 w atts
-	0	3 Ton AC Unit w/ 5KW	x		w atts
-	0	3 Ton AC Unit w/ 10KW	x		w atts
-	0	4 Ton AC Unit w/ 10KW	x		w atts
-	0	3 Ton Unit w/ 10KW	x		w atts
-	0	3 Ton Unit w/ 10KW	x		w atts
-	0	5 Ton Unit w/ 10KW	x		w atts
-	0	9K BTU Single Zone Minisplit Unit	x	1920	0 w atts
-	0	24K BTU Multi Zone Minisplit Unit	x	3264	0 w atts
			Total Watts:		15480
		PANEL C	Total Amps:		**65**

VOLTAGE DROP CALCULATIONS:

MM9052-1, Custom Daycare (CO - I-4) (Wet - 2026), (#19474-82)

Conductor Type (@ 75 degrees C): Copper

I = Current in Conductor (Amperes)
L = One-way length of Circuit (Feet)
Cm = Cross Section Area of Conductor (Circular Mills)
K = Resistance in Ohms of 1 circular Mill Foot of Conductor
K = 12.9

Formula (For Single Phase): $Vd = \frac{2K \times L \times I}{Cm}$

Formula (For Three Phase): $Vd = \frac{1.73K \times L \times I}{Cm}$

Calc 1: Circuit #:

Circuit Phase:	Wire Size:	Length of Wire (L):	Amps of Circuit (I):
240V 1P	6	25	47.2

2 X 12.9 X 25 X 47.2 = 1.16 Volts
26240

Percentage Drop:
1.16 / 240 = 0.48342 %, (Vd) less than 3% drop therefore OK

Calc 2: Circuit #:

Circuit Phase:	Wire Size:	Length of Wire (L):	Amps of Circuit (I):
240V 1P	8	50	44.2

2 X 12.9 X 50 X 44.2 = 3.45 Volts
16510

Percentage Drop:
3.45 / 240 = 1.43898 %, (Vd) less than 3% drop therefore OK

Calc 3: Circuit #:

Circuit Phase:	Wire Size:	Length of Wire (L):	Amps of Circuit (I):
120V 1P	12	117	6

2 X 12.9 X 117 X 6 = 2.77 Volts
6530

Percentage Drop:
2.77 / 120 = 2.31133 %, (Vd) less than 3% drop therefore OK

Calc 4: Circuit #:

Circuit Phase:	Wire Size:	Length of Wire (L):	Amps of Circuit (I):
240V 1P	10	50	23.5

2 X 12.9 X 50 X 23.5 = 2.92 Volts
10380

Percentage Drop:
2.92 / 240 = 1.21688 %, (Vd) less than 3% drop therefore OK

Main Breaker: 22kAIC — **150 AMP 120/240V 1 PHASE** — **EXTERIOR: NEMA 3R**
Branch Breakers: 10kAIC — **PANEL WITH 150 AMP MAIN BREAKER**

WS	Description	Circuit	BRK	A	B	BRK	Circuit	Description	WS
12	**Lights**	1	20	985			2		
12	**Ctrld Recep & GFCI @ RR's (Rear Half)**	3	20		540		4		
		5					6		
12	**GFCI @ RR's & Fire/Smoke Damper (Hitch Half)**	7	20		720		8		
		9					10		
		11					12		
		13				60	14	**Ded. 60Amp Breaker (Future Solar Power)**	6
		15				2	16		
		17		7200		60	18	**Ded. 60Amp Breaker (Future EV Parking)**	6
		19				2	20		
				8185	8460	Total			
				68	71				

ELECTRICAL CALCULATION: — **PANEL D**

GENERAL LIGHTING:

359	SQ. FT. x 1.3	= 467	watts
0	SQ. FT. x 1.3	= 0	watts
0	HVAC UNITS	= 0	watts
0	W.H. x 125%	= 0	watts
7	RECEPS	= 1260	watts
0		= 0	watts
1	Future EV Parking (	= 14400	watts
1	Future Solar Power	= 0	watts
16127			watts

TYPE OF PANEL: **LOAD CENTER**

divide by 240 volts= 67 AMPS TOTAL

Circuit	QTY	ITEM		WATTS	TOTAL
1	6	**2x2 LED**	x	40	240 watts
-	0	2x4 4.9K LED	x	40	0 w atts
-	0	2x4 5.5K LED	x	50	0 w atts
1	1	**12W LED Porch Light**	x	13	13 w atts
1	3	**Exhaust Fan 70 cfm**	x	138	414 watts
1	2	**Exhaust Fan 110 cfm**	x	156	312 watts
-	0	Exhaust Fan 300 cfm	x	212	0 w atts
3	3	**Recept Duplex**	x	180	540 watts
-	0	Recept Duplex	x	180	0 w atts
7	4	**Recept Duplex**	x	180	720 watts
-	0	Recept Duplex	x	180	0 w atts
-	0	Recept Duplex	x	180	0 w atts
-	0	Recept Duplex	x	180	0 w atts
-	0	40 Gal Water Heater	x	5625	0 w atts
-	0	Res. Microwave	x	1350	0 w atts
-	0	Res. Microwave	x	1350	0 w atts
14,16	1	**Future Solar Power (240)**	x	0	0 w atts
18,20	1	**Future EV Parking (240)**	x	14400	14400 w atts
1	1	**Emergency / Exit W Remote Head**	x	6	6 w atts
-	0	Emergency / Exit	x	5	0 w atts
-	0	Alarm Panel	x	144	0 w atts
-	0	3 Ton AC Unit w/ 15KW	x	16320	0 w atts
-	0	4 Ton AC Unit w/ 10KW	x	11328	0 w atts
-	0	5 Ton AC Unit w/ 10KW	x	11520	0 w atts
-	0	3 Ton AC Unit w/ 5KW	x		w atts
-	0	3 Ton AC Unit w/ 10KW	x		w atts
-	0	4 Ton AC Unit w/ 10KW	x		w atts
-	0	3 Ton Unit w/ 10KW	x		w atts
-	0	3 Ton Unit w/ 10KW	x		w atts
-	0	5 Ton Unit w/ 10KW	x		w atts
-	0	9K BTU Single Zone Minisplit Unit	x	1920	0 w atts
-	0	24K BTU Multi Zone Minisplit Unit	x	3264	0 w atts
			Total Watts:		23500
		PANEL G	Total Amps:		**98**

Main Breaker: 22kAIC — **200 AMP 120/240V 1 PHASE** — **EXTERIOR: NEMA 3R**
Branch Breakers: 10kAIC — **PANEL WITH 200 AMP MAIN BREAKER**

WS	Description	Circuit	BRK	A	B	BRK	Circuit	Description	WS
12	**Lights**	1	20	103			2	**Air Handler (3-ton) (240v)**	6
12	**Recep @ Air-Handler & GFCI @ RR**	3	20	6240	360		4		
		5			6240	2	6	**Condensor (3-ton) (240v)**	10
12	**Ctrld Receps @ Office 117 & Air-Handler**	7	20	1872	540		8		
		9			1872	2	10	**Air Handler (3-ton) (240v)**	6
		11		6240			12		
		13			6240	2	14	**Condensor (3-ton) (240v)**	10
		15		1872			16		
		17			1872	2	18		
		19					20		
				16327	17124	Total			
				136	143				

ELECTRICAL CALCULATION: — **PANEL H**

GENERAL LIGHTING:

34	SQ. FT. x 1.3	= 44	watts
0	SQ. FT. x 1.3	= 0	watts
4	HVAC UNITS	= 32448	watts
0	W.H. x 125%	= 0	watts
5	RECEPS	= 900	watts
0		= 0	watts
0		= 0	watts
0		= 0	watts
33392			watts

TYPE OF PANEL: **LOAD CENTER**

divide by 240 volts= 139 AMPS TOTAL

Circuit	QTY	ITEM		WATTS	TOTAL
-	0	2x4 4.4K LED	x	30	0 watts
1	8	**2x4 4.4K LED**	x	30	240 watts
-	0	LED Dome Light	x	24	0 watts
1	2	**12W LED Porch Light**	x	13	26 watts
-	0	12W LED Porch Light	x	13	0 watts
-	0	Exhaust Fan 70 cfm	x	138	0 watts
-	0	Exhaust Fan 150 cfm	x	180	0 watts
3	2	**Recept Duplex**	x	180	360 watts
5	1	**Recept Duplex**	x	180	180 watts
7	2	**Recept Duplex**	x	180	360 watts
-	0	Recept Duplex	x	180	0 watts
-	0	Recept Duplex	x	180	0 watts
-	0	Recept Duplex	x	180	0 watts
-	0	06 Gal Water Heater	x	2062.5	0 watts
-	0	CMT-2.5 Gal Mini Tank Water Heater	x	1440	0 watts
Varies	2	**Air Handler (3-ton) (240v)**	x	12480	24960 watts
Varies	2	**Condensor (3-ton) (240v)**	x	3744	7488 watts
-	0	Res. Range Hood	x	300	0 watts
1	2	**Emergency / Exit W Remote Head**	x	6	12 watts
1	2	**Emergency / Exit**	x	5	10 watts
-	0	Smoke & Heat Detectors	x	6	0 watts
-	0	3 Ton AC Unit w/ 10KW	x	11328	0 watts
-	0	4 Ton AC Unit w/ 10KW	x	11328	0 watts
-	0	5 Ton AC Unit w/ 10KW	x	11520	0 watts
-	0	3 Ton AC Unit w/ 5KW	x		w atts
-	0	3 Ton AC Unit w/ 10KW	x		w atts
-	0	4 Ton AC Unit w/ 10KW	x		w atts
-	0	3 Ton Unit w/ 10KW	x		w atts
-	0	3 Ton Unit w/ 10KW	x		w atts
-	0	5 Ton Unit w/ 10KW	x		w atts
-	0	9K BTU Single Zone Minisplit Unit	x	1920	0 watts
-	0	24K BTU Multi Zone Minisplit Unit	x	3264	0 watts
			Total Watts:		33421
			0 Total Amps:		**139**

Main Breaker: 22kAIC — **150 AMP 120/240V 1 PHASE** — **EXTERIOR: NEMA 3R**
Branch Breakers: 10kAIC — **PANEL WITH 150 AMP MAIN BREAKER**

WS	Description	Circuit	BRK	A	B	BRK	Circuit	Description	WS
12	**Lights @ Lobby 112**	1	20	99			2		
12	**Controlled Receps @ Classroom 111**	3	20		720		4		
12	**Controlled Recep @ Cor. 106 & Fire/Smoke Damper**	5	20	720			6		
12	**Controlled Receps @ Classroom 110**	7	20		720		8		
12	**Controlled Receps @ Lobby 112 & Fire/Smoke D**	9	20	540			10		
		11					12		
		13				60	14	**Ded. 60Amp Breaker (Future Solar Power)**	6
		15				2	16		
		17		7200		60	18	**Ded. 60Amp Breaker (Future EV Parking)**	6
		19				2	20		
				8559	8640	Total			
				71	72				

ELECTRICAL CALCULATION: — **PANEL F**

GENERAL LIGHTING:

126	SQ. FT. x 1.3	= 164	watts
0	SQ. FT. x 1.3	= 0	watts
0	HVAC UNITS	= 0	watts
0	W.H. x 125%	= 0	watts
15	RECEPS	= 2700	watts
0		= 0	watts
1	Future EV Parking (	= 14400	watts
1	Future Solar Power	= 0	watts
17264			watts

TYPE OF PANEL: **LOAD CENTER**

divide by 240 volts= 72 AMPS TOTAL

Circuit	QTY	ITEM		WATTS	TOTAL
-	0	2x2 LED	x	40	0 w atts
1	1	**2x4 4.9K LED**	x	40	40 w atts
-	0	2x4 5.5K LED	x	50	0 w atts
-	0	26W LED Porch Light	x	26	0 w atts
-	0	Exhaust Fan & Light	x	216	0 w atts
-	0	Exhaust Fan 110 cfm	x	156	0 w atts
-	0	Exhaust Fan 300 cfm	x	212	0 w atts
3	4	**Recept Duplex**	x	180	720 watts
5	3	**Recept Duplex**	x	180	540 w atts
7	3	**Recept Duplex**	x	180	540 w atts
-	0	Recept Duplex	x	180	0 w atts
-	0	Recept Duplex	x	180	0 w atts
-	0	Recept Duplex	x	180	0 w atts
-	0	40 Gal Water Heater	x	5625	0 w atts
-	0	Res. Microwave	x	1350	0 w atts
-	0	Res. Microwave	x	1350	0 w atts
14,16	1	**Future Solar Power (240)**	x	0	0 w atts
18,20	1	**Future EV Parking (240)**	x	14400	14400 w atts
-	0	Emergency / Exit W Remote Head	x	6	0 w atts
-	0	Emergency / Exit	x	5	0 w atts
-	0	Alarm Panel	x	144	0 w atts
-	0	3 Ton AC Unit w/ 15KW	x	16320	0 w atts
-	0	4 Ton AC Unit w/ 10KW	x	11328	0 w atts
-	0	5 Ton AC Unit w/ 10KW	x	11520	0 w atts
-	0	3 Ton AC Unit w/ 5KW	x		w atts
-	0	3 Ton AC Unit w/ 10KW	x		w atts
-	0	4 Ton AC Unit w/ 10KW	x		w atts
-	0	3 Ton Unit w/ 10KW	x		w atts
-	0	3 Ton Unit w/ 10KW	x		w atts
-	0	5 Ton Unit w/ 10KW	x		w atts
-	0	9K BTU Single Zone Minisplit Unit	x	1920	0 w atts
-	0	24K BTU Multi Zone Minisplit Unit	x	3264	0 w atts
			Total Watts:		17199
		PANEL F	Total Amps:		**72**

Main Breaker: 22kAIC — **150 AMP 120/240V 1 PHASE** — **EXTERIOR: NEMA 3R**
Branch Breakers: 10kAIC — **PANEL WITH 150 AMP MAIN BREAKER**

WS	Description	Circuit	BRK	A	B	BRK	Circuit	Description	WS
12	**Lights @ Lac/Sick 121**	1	20	40			2		
12	**Controlled Receps @ Classroom 120 & GFCI**	3	20		720		4		
12	**Cntrld Receps @ Lac/Sick 121 & GFCI**	5	20	540			6		
12	**Controlled Receps @ Office 117**	7	20		540		8		
		9					10		
		11					12		
		13				60	14	**Ded. 60Amp Breaker (Future Solar Power)**	6
		15				2	16		
		17		7200		60	18	**Ded. 60Amp Breaker (Future EV Parking)**	6
		19				2	20		
				7780	8460	Total			
				65	71				

ELECTRICAL CALCULATION: — **PANEL I**

GENERAL LIGHTING:

65	SQ. FT. x 1.3	= 85	watts
0	SQ. FT. x 1.3	= 0	watts
0	HVAC UNITS	= 0	watts
0	W.H. x 125%	= 0	watts
10	RECEPS	= 1800	watts
0		= 0	watts
1	Future EV Parking (	= 14400	watts
1	Future Solar Power	= 0	watts
16285			watts

TYPE OF PANEL: **LOAD CENTER**

divide by 240 volts= 68 AMPS TOTAL

Circuit	QTY	ITEM		WATTS	TOTAL
-	0	2x2 LED	x	40	0 w atts
1	1	**2x4 4.9K LED**	x	40	40 w atts
-	0	2x4 5.5K LED	x	50	0 w atts
-	0	26W LED Porch Light	x	26	0 w atts
-	0	Exhaust Fan & Light	x	216	0 w atts
-	0	Exhaust Fan 110 cfm	x	156	0 w atts
-	0	Exhaust Fan 300 cfm	x	212	0 w atts
3	4	**Recept Duplex**	x	180	720 watts
5	3	**Recept Duplex**	x	180	540 w atts
7	3	**Recept Duplex**	x	180	540 w atts
-	0	Recept Duplex	x	180	0 w atts
-	0	Recept Duplex	x	180	0 w atts
-	0	Recept Duplex	x	180	0 w atts
-	0	40 Gal Water Heater	x	5625	0 w atts
-	0	Res. Microwave	x	1350	0 w atts
-	0	Res. Microwave	x	1350	0 w atts
14,16	1	**Future Solar Power (240)**	x	0	0 w atts
18,20	1	**Future EV Parking (240)**	x	14400	14400 w atts
-	0	Emergency / Exit W Remote Head	x	6	0 w atts
-	0	Emergency / Exit	x	5	0 w atts
-	0	Alarm Panel	x	144	0 w atts
-	0	3 Ton AC Unit w/ 15KW	x	16320	0 w atts
-	0	4 Ton AC Unit w/ 10KW	x	11328	0 w atts
-	0	5 Ton AC Unit w/ 10KW	x	11520	0 w atts
-	0	3 Ton AC Unit w/ 5KW	x		w atts
-	0	3 Ton AC Unit w/ 10KW	x		w atts
-	0	4 Ton AC Unit w/ 10KW	x		w atts
-	0	3 Ton Unit w/ 10KW	x		w atts
-	0	3 Ton Unit w/ 10KW	x		w atts
-	0	5 Ton Unit w/ 10KW	x		w atts
-	0	9K BTU Single Zone Minisplit Unit	x	1920	0 w atts
-	0	24K BTU Multi Zone Minisplit Unit	x	3264	0 w atts
			Total Watts:		16240
		PANEL I	Total Amps:		**68**

1 ELECTRICAL PANELS & CALC'S
N.T.S.

PANEL GROUNDING	
PANEL:	GRND:
100A:	#8
125A:	#6
150A:	#6
200A:	#4
300A:	#2
400A:	#1/0
600A:	#2/0

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SUNBELT MODULAR, INC.

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DEALER: MOBILE MODULAR

PROJECT: HAVEN HOUSE OF MONTROSE (DAYCARE - 2026)

PROJECT #: MM9052-1

STATES: CO.

SERIAL NUMBERS: #19474-82

DRAWN BY: ELV

PLOT DATE: 7/24/2026

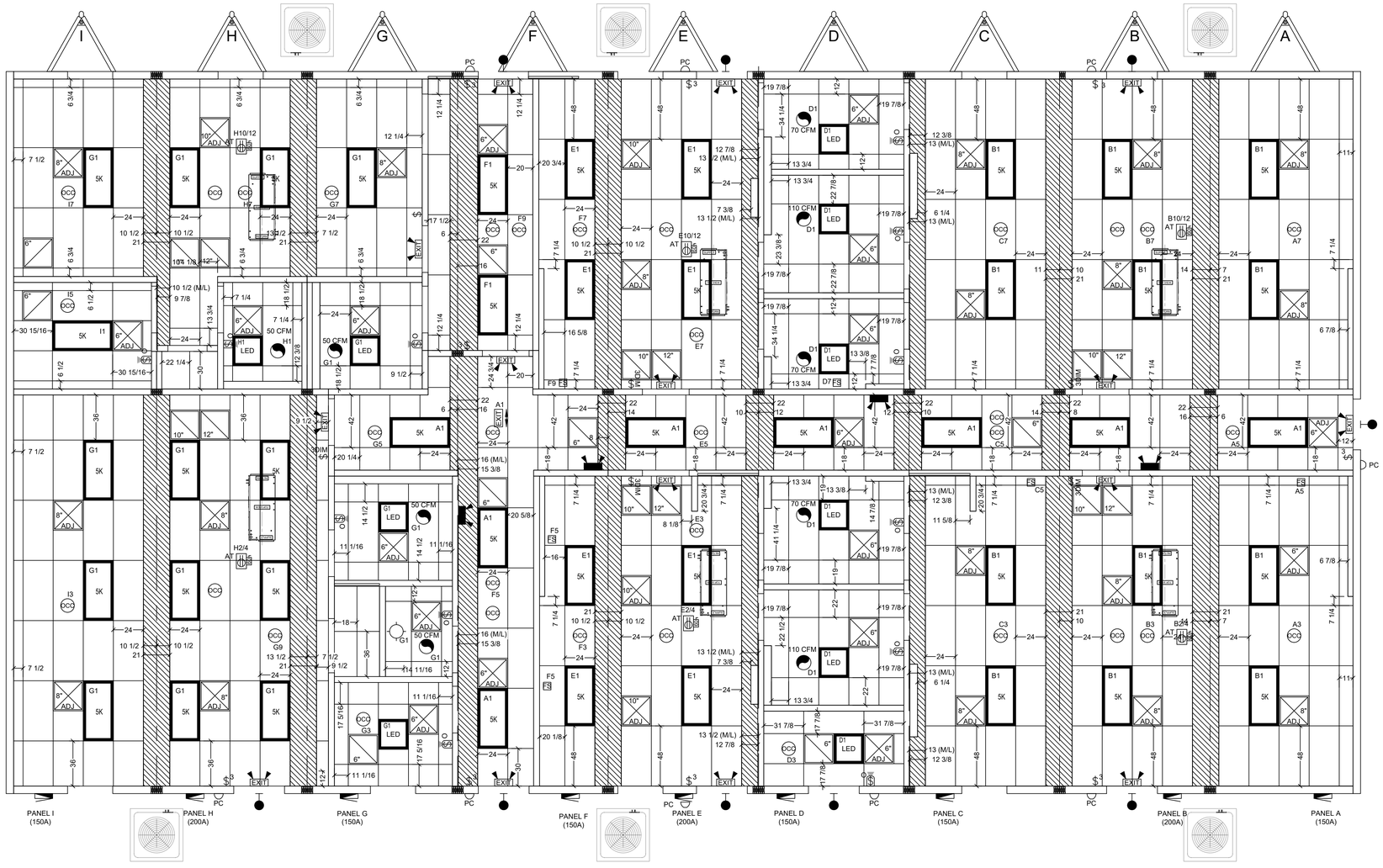
REV # / DATE:
06/23: PRELIM. BLKG.
07/24: DRAWINGS

SHAYLON VAUGHN, P.E.
CORPORATE ENGINEER
5301 W. MADISON ST.
PHOENIX, AZ 85043
(602) 447-6460

SHEET: 5 *OF* 18

CEILING LEGEND

	INDICATES T-GRID SUSPENDED CEILING INSTALLED @ FACTORY
	INDICATES SUSPENDED CEILING HOLD-BACK @ MATELINES, TO BE COMPLETED ON-SITE BY OTHERS



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

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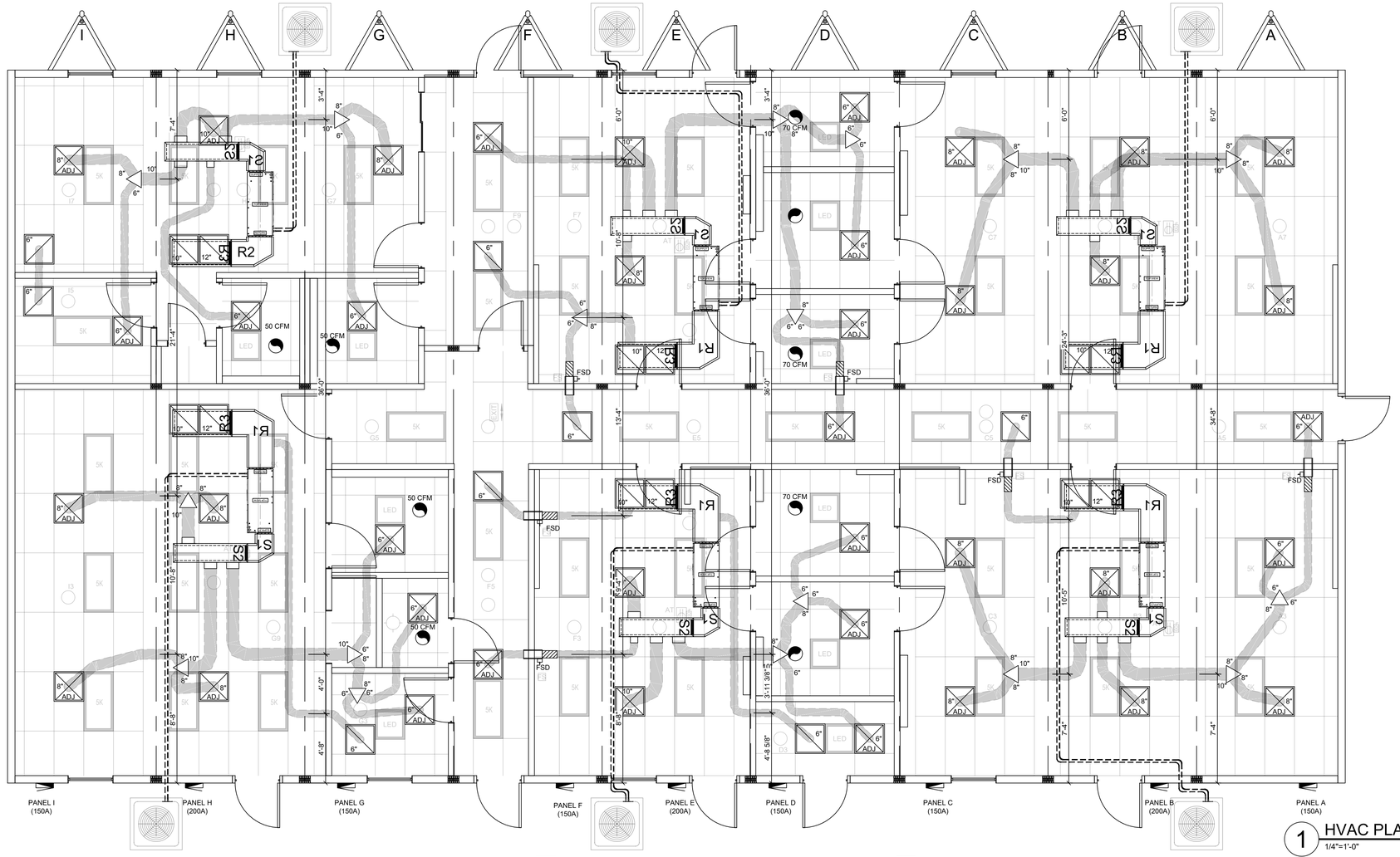
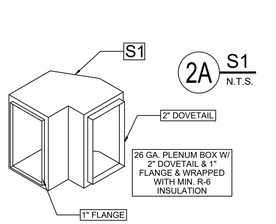
18



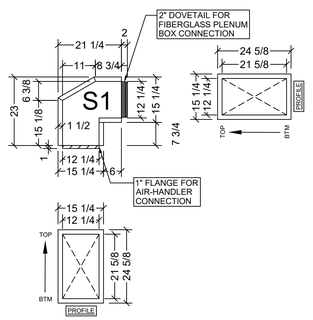
1 HVAC PLAN
1/4"=1'-0"

HVAC:

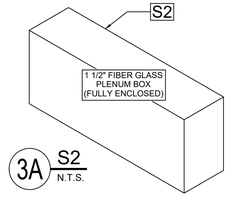
Symbol	Type	Qty	Note	Description
	HVAC Air-Handler	6	Trane Air-Handler: 5TEM4B04AC31S or equal	208-230/1/60 - 3-Ton-10KW Air-Handler Split system mouted horizontally in attic with supply / return plenum closures and boxes, drain pan, line set, vertical filter rack and (1) 60A/240 non-fused disconnect and service receptacle. (Amtex to install electrical items.)
	HVAC - Condensor	6	Trane Condensor: 5TTR4036A1 or equal	208/230/1/60 - 3-Ton Condensor unit w/ (1) 40A/240V non-fused disconnect and GFCI service receptacle. (Amtex to install electrical items.) (Condensor to be shipped loose in original packaging and to be installed at site by others.)
R3	Fiberglass Duct	6	Return (R3)	21 7/8" x 24 7/8" x 48" Fiberglass plenum box. (Box to be completely sealed and holes to be cut at time of installation per unit.) (See Detail 6/7).
S2	Fiberglass Duct	6	Supply (S2)	15 1/4" x 24 5/8" x 60" Fiberglass plenum box. (Box to be completely sealed and holes to be cut at time of installation per unit.) (See Detail 3/7).
R1	Galvanized Duct	5	Return (R1)	47" x 33 7/8" x 24 7/8" Fiberglass plenum closure lined w/ min. 26ga Galvanized sleeve/liner. (Closure to include 1" flange to connect to handler and 2" dove tail to connect to R3). (See Detail 4/7).
S1	Galvanized Duct	6	Supply (S1)	23" x 21 1/4" x 24 5/8" Fiberglass plenum closure lined w/ min. 26ga Galvanized sleeve/liner. (Closure to include 1" flange to connect to handler and 2" dove tail to connect to S2). (See Detail 2/7).
R2	Galvanized Duct	1	Return (R2)	24" x 33 7/8" x 24 7/8" Fiberglass plenum closure lined w/ min. 26ga Galvanized sleeve/liner. (Closure to include 1" flange to connect to handler and 2" dove tail to connect to R3). (See Detail 5/7).
	Supply Diffusers	18	8"	24" x 24" 4-way lay-in w/ radial damper, collar w/ scoop, and flex (Factory standard)
	Supply Diffusers	4	10"	24" x 24" 4-way lay-in w/ radial damper, collar w/ scoop, and flex (Factory standard)
	Supply Diffusers	17	6"	24" x 24" 4-way lay-in w/ radial damper, collar w/ scoop, and flex (Factory standard)
	R/A Grille	1	6"	(2) 24" x 24" Perforated lay-in with collar and flex (Factory standard)
	R/A Grille	6	6"	24" x 24" Perforated lay-in with start collar, collar, and flex (Factory standard)
	R/A Grille	6	10"	24" x 24" Perforated lay-in with start collar, collar, and flex (Factory standard)
	R/A Grille	6	12"	24" x 24" Perforated lay-in with start collar, collar, and flex (Factory standard)
	Damper	3	6"	Non- Ajustable damper. (Factory standard)
	Damper	15	10"	Non- Ajustable damper. (Factory standard)
	Damper	5	8"	Non- Ajustable damper. (Factory standard)
FSD	Combination Damper(s)	6	Size: 6" Round	Fire / Smoke combination damper at rated wall(s) w/ Intergral Smoke Detector. (Factory standard)
	Transistion Box	17	Various Sizes	Fiberglass Transition box. (Various sizes - See HVAC layout). (Factory standard)
	Access Pipe	6	6"	Galvanized pipe @ 12" long with 6" x 6" access door. (Factory standard)
	Smoke Detector	6	Inside HVAC's	Smoke detector to be installed in each air-handler. (Factory standard)
	Duct type	1		R-6 Fiberglass insulation. Flex duct not limited in length and supported @ a max of 48" o.c. (Factory standard)
	Duct System	1		Plenum wall(s) with fully ducted supply and return air. (Factory standard)
	Misc	1		HVAC ventilation system(s) shall be balanced at site by others. (Factory standard)



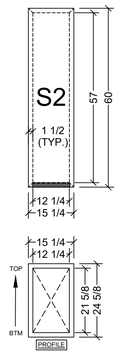
2A S1 N.T.S.



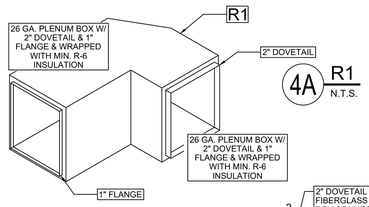
2 PLENUM BOX (S1)
1/2"=1'-0" S1: (6) REQ'D AS SHOWN



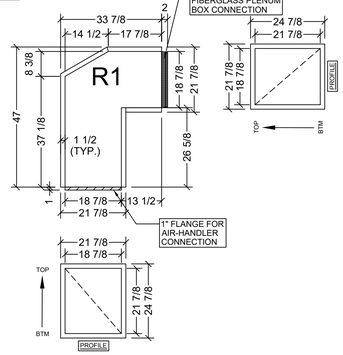
3A S2 N.T.S.



3 PLENUM BOX (S2)
1/2"=1'-0" S2: (6) REQ'D AS SHOWN

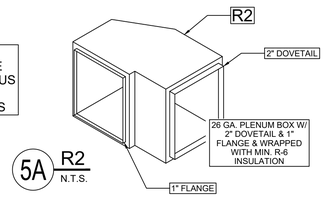


4A R1 N.T.S.

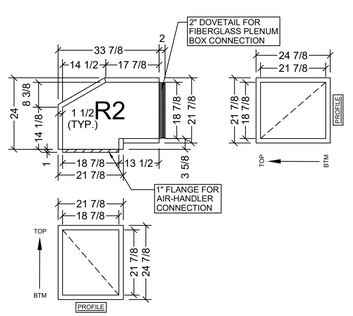


4 PLENUM BOX (R1)
1/2"=1'-0" R1: (5) REQ'D AS SHOWN

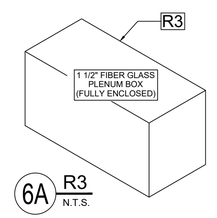
PRODUCTION NOTE:
ALL PENETRATIONS TO BE DONE DURING INSTALLATION PER VARIOUS LOCATIONS/HEIGHTS AND ADJUSTMENTS OF AIR-HANDLERS



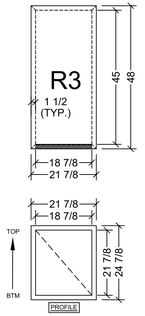
5A R2 N.T.S.



5 PLENUM BOX (R2)
1/2"=1'-0" R2: (1) REQ'D AS SHOWN



6A R3 N.T.S.



6 PLENUM BOX (R3)
1/2"=1'-0" R3: (6) REQ'D AS SHOWN

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DEALER:
MOBILE MODULAR

PROJECT:
HAVEN HOUSE OF MONTROSE
(DAYCARE - 2026)

PROJECT #:
MM9052-1

STATES:
CO.

SERIAL NUMBERS:
#19474-82

DRAWN BY:
ELV

PLOT DATE:
7/24/2026

REV # / DATE:
06/23: PRELIM. BLKG.
07/24: DRAWINGS

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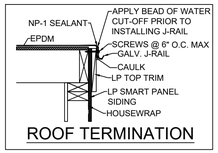
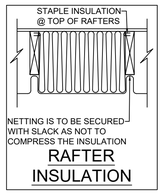
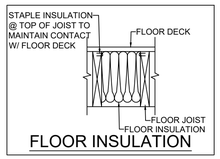
OF
18



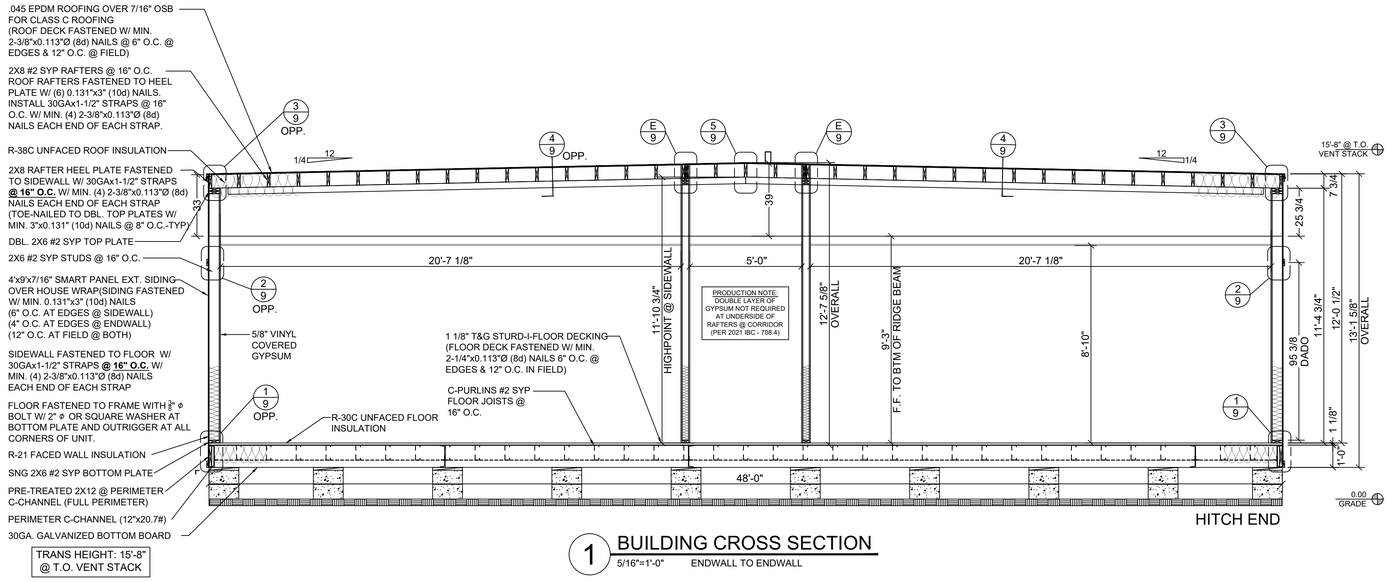
ROOF TERMINATION



RAFTER INSULATION

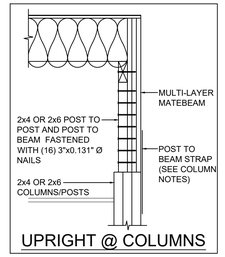


FLOOR INSULATION

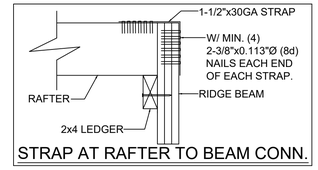


1 BUILDING CROSS SECTION

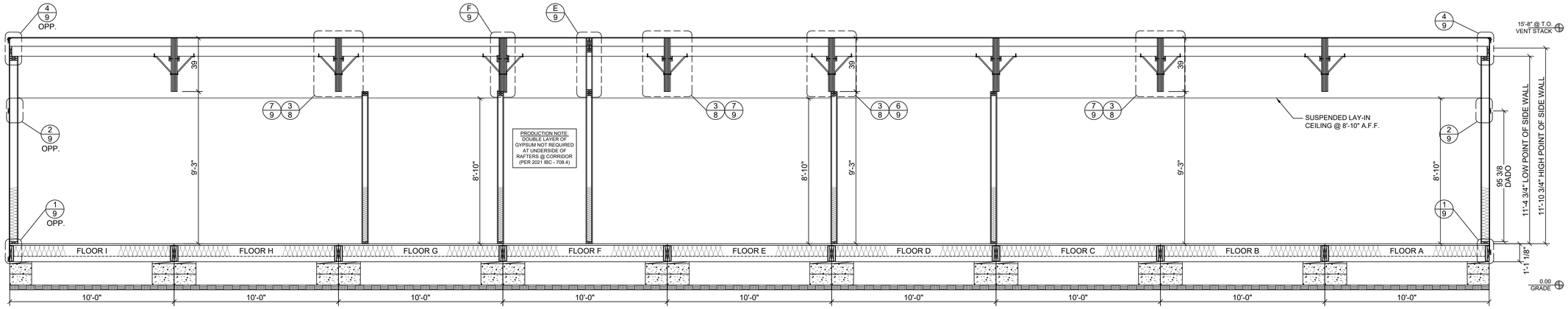
5/16"=1'-0" ENDWALL TO ENDWALL



UPRIGHT @ COLUMNS

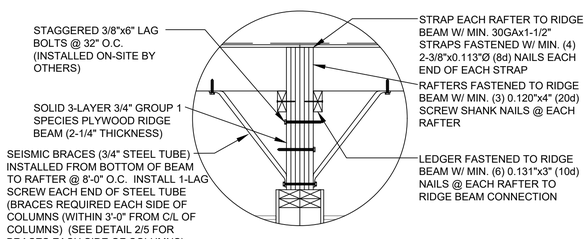


STRAP AT RAFTER TO BEAM CONN.



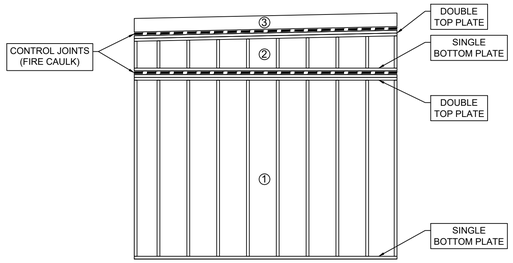
2 BUILDING CROSS SECTION

1/4"=1'-0" SIDEWALL TO SIDEWALL



3 RAFTER-MATEBEAM

N.T.S. RAFTER TO MATEBEAM CONNECTION



5 FIRE PARTITION WALL CONSTRUCTION

N.T.S. CONTROL JOINTS REQUIRED BETWEEN 1 & 2, AND 2 & 3 (TYPICAL FOR FLAT AND SLOPED ROOFS)

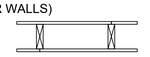
#6 BUGLE HEAD COARSE THREAD DRYWALL SCREWS ARE AN ACCEPTABLE REPLACEMENT FASTENER.

GA FILE NO. WP 3520 DESIGN # UL U305	GENERIC	1 HOUR FIRE	30 TO 34 STC SOUND

GYPSUM WALLBOARD, WOOD STUDS (INTERIOR WALLS)

ONE LAYER 5/8" TYPE X PLAIN OR PRE-DECORATED GYPSUM WALLBOARD, WATER-RESISTANT GYPSUM BACKING BOARD, OR GYPSUM VENEER BASE APPLIED PARALLEL OR AT RIGHT ANGLES TO EACH SIDE OF A MIN. 2X4 WOOD STUDS 24" O.C WITH 6d CEMENT COATED NAILS, 1 7/8" LONG, 0.0915" SHANK, 1/4" HEADS, 7" O.C. @ JOINTS AND TOP AND BOTTOM PLATES AND 3/8" BEADS OF ADHESIVE AT INTERMEDIATE STUDS. (PRE-DECORATED WALLBOARD MAY BE LEFT EXPOSED) (ALTERNATE FASTENER, #6 BUGLE HEAD DRYWALL SCREWS, 1-7/8" LONG, 1/4" HEAD, MEETING ASTM C1002).

JOINTS STAGGERED 24" O.C. ON OPPOSITE SIDES (LOAD-BEARING)



THICKNESS:	4 3/4"
APPROX. WEIGHT:	7 PSF
FIRE TEST:	UL R1319-4, -6, 6-17-52; UL R2717-39, 1-20-66; UL R3501-52, 3-15-66; UL DESIGN U305 ULC DESIGN W301
SOUND TEST:	OR 64-8, 2-4-64

4 FIRE RATING @ INTERIOR WALL

N.T.S. FIRE RATED PARTITION AT CORRIDORS

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DEALER:
MOBILE MODULAR

PROJECT:
HAVEN HOUSE OF MONTROSE (DAYCARE - 2026)

PROJECT #:
MM9052-1

STATES:
CO.

SERIAL NUMBERS:
#19474-82

DRAWN BY:
ELV

PLOT DATE:
7/24/2026

REV # / DATE:
06/23: PRELIM. BLKG.
07/24: DRAWINGS

SHAYLON VAUGHN, P.E.
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OF
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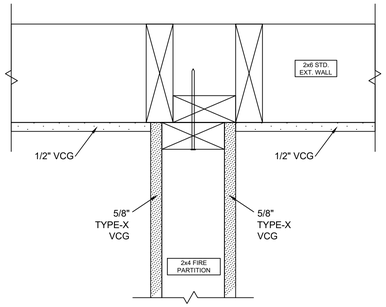
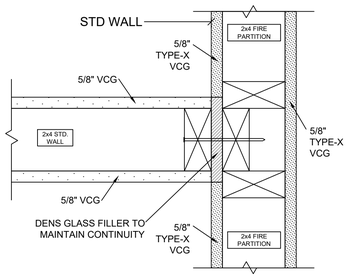
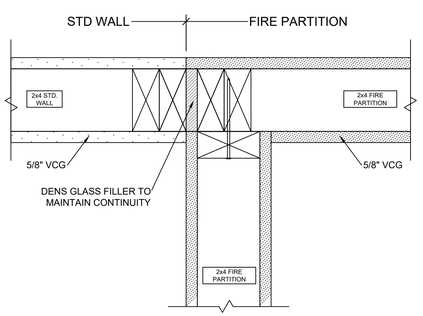


A FIRE PARTITION @ EXT. WALL
3"=1'-0" TYP. @ EXTERIOR WALLS
(FIRE TAPE & CAULK AS REQUIRED)

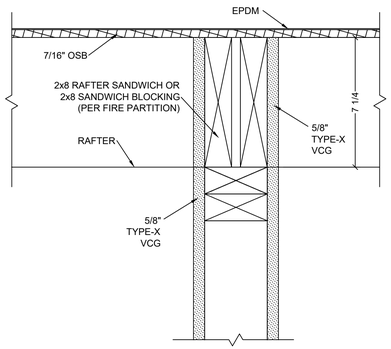


B FIRE PARTITION @ STD. WALL
3"=1'-0" TYP. @ FIRE PARTITION INTERSECTIONS
(FIRE TAPE & CAULK AS REQUIRED)

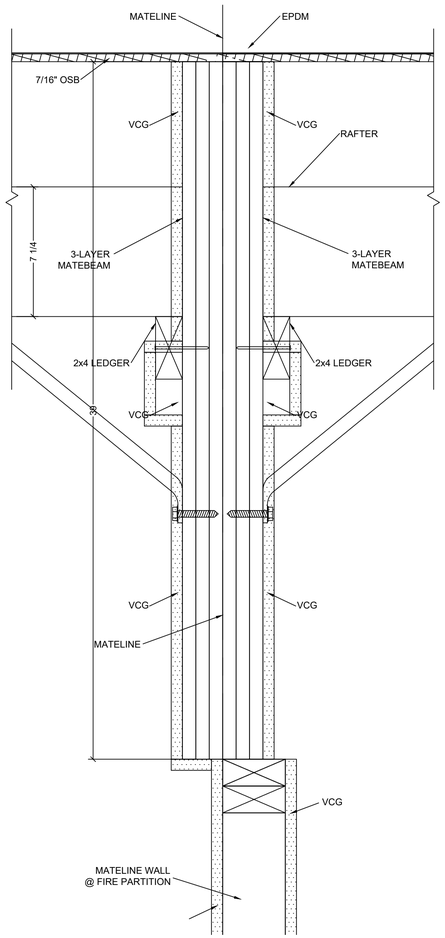
C FIRE PARTITION @ STD. WALL
3"=1'-0" TYP. @ FIRE PARTITION INTERSECTIONS
(FIRE TAPE & CAULK AS REQUIRED)



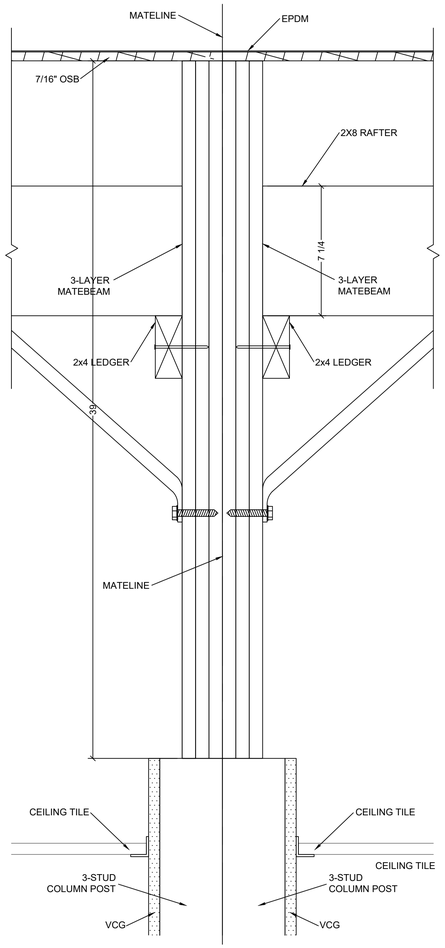
D FIRE PARTITION @ EXT. WALL / M/L
3"=1'-0" TYP. @ EXTERIOR WALL / MATELINE
(FIRE TAPE & CAULK AS REQUIRED)



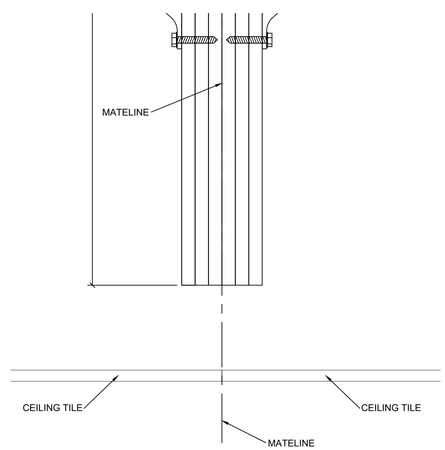
E FIRE PARTITION @ EXT. WALL
3"=1'-0" TYP. @ EXTERIOR WALLS
(FIRE TAPE & CAULK AS REQUIRED)



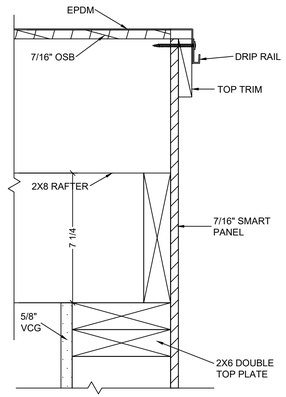
F FIRE PARTITION @ CORRIDOR
3"=1'-0" EXTERIOR WAL @ CORRIDOR (FLOOR D)
(FIRE TAPE & CAULK AS REQUIRED)



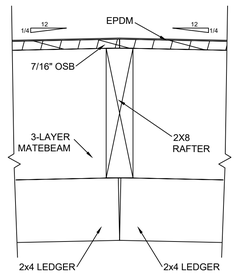
6 MATEBEAM @ COLUMN
3"=1'-0" TYPICAL AT MATELINE WALL



7 MATEBEAM @ OPEN AREAS
3"=1'-0" TYPICAL AT OPEN AREAS

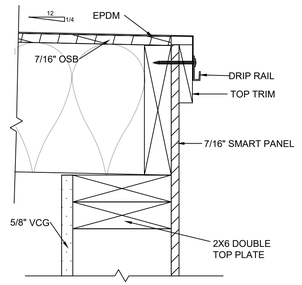


4 RAKE DETAIL
3"=1'-0"

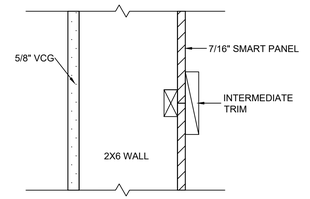


5 PEAK DETAIL
3"=1'-0"

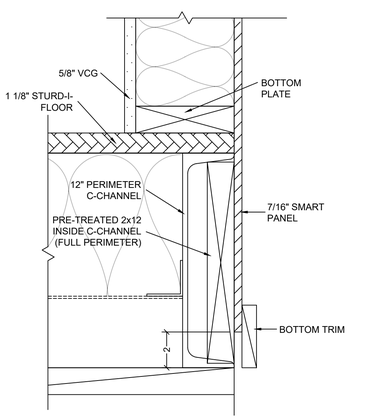
8 NOT USED



3 EAVE DETAIL
3"=1'-0" STANDARD CONSTRUCTION



2 INTERMEDIATE TRIM
3"=1'-0"



1 FLOOR DETAIL (TYP.)
3"=1'-0"

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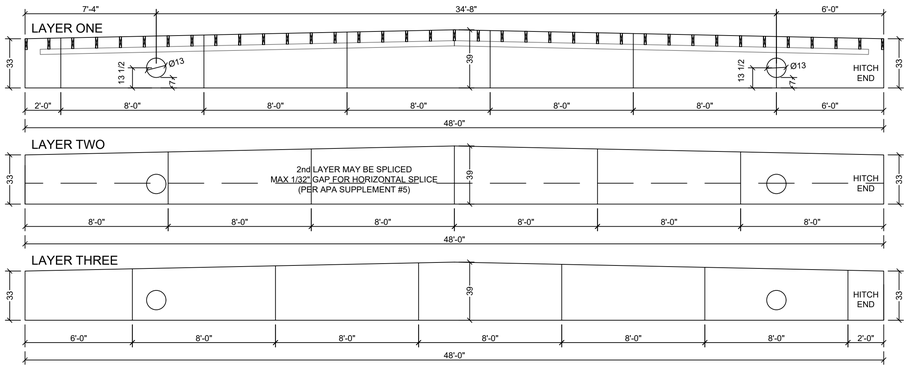
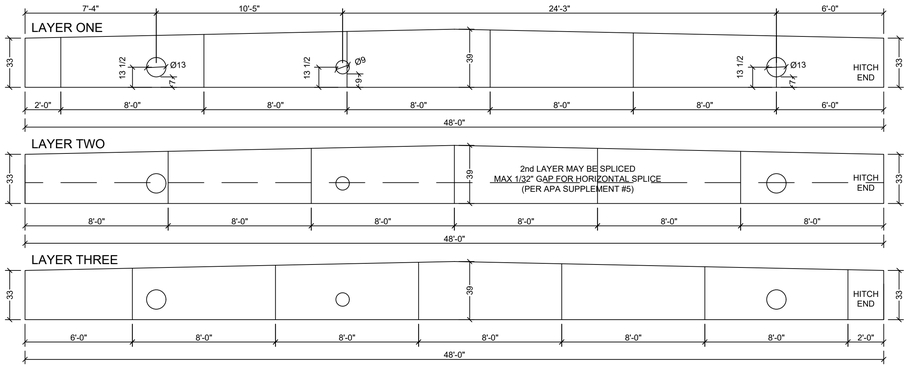
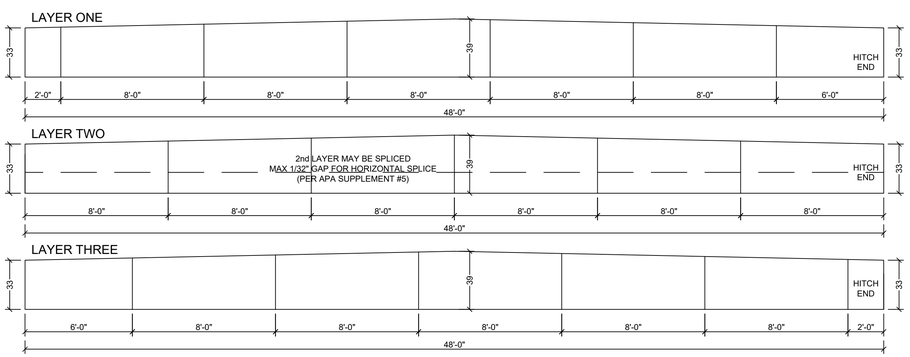


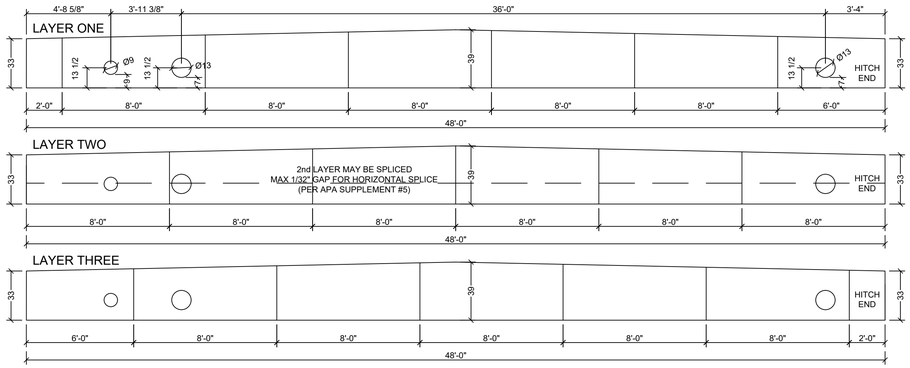
1 RIDGE BEAM (RB1)
1/4"=1'-0" RB1: (2) REQ'S AS SHOWN @ MATELINE A-B



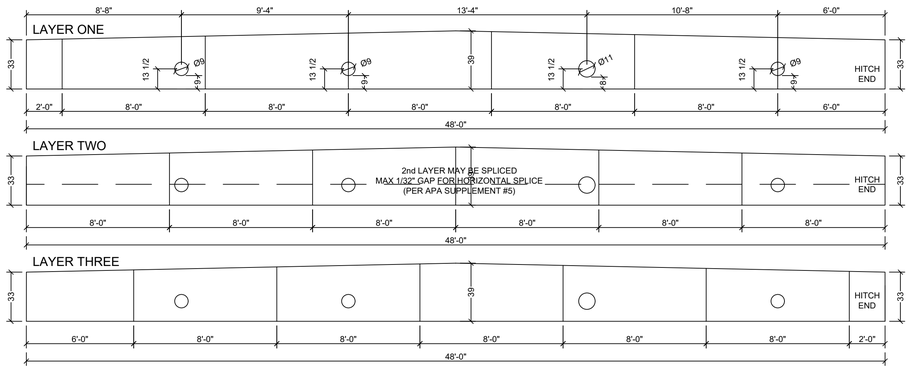
2 RIDGE BEAM (RB2)
1/4"=1'-0" RB2: (2) REQ'S AS SHOWN @ MATELINE B-C



3 RIDGE BEAM (RB3)
1/4"=1'-0" RB3: (4) REQ'S AS SHOWN (NO HOLES) @ MATELINE C-D & F-G

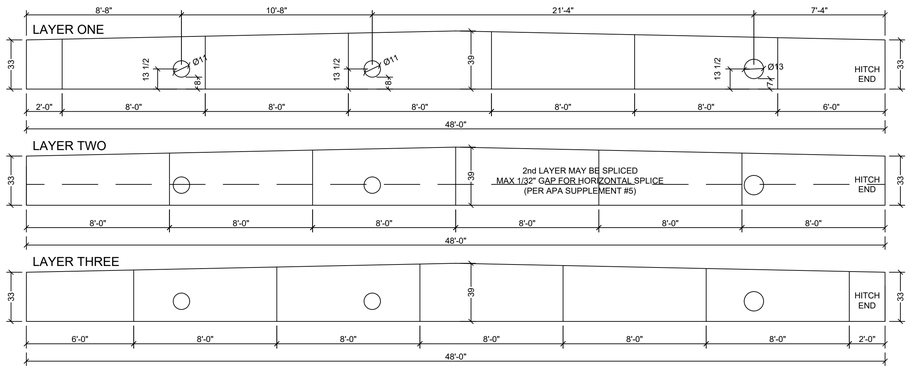


4 RIDGE BEAM (RB4)
1/4"=1'-0" RB4: (4) REQ'S AS SHOWN @ MATELINE D-E & G-H



5 RIDGE BEAM (RB5)
1/4"=1'-0" RB5: (2) REQ'S AS SHOWN @ MATELINE E-F

RIDGE BEAM NOTES:
1. RIDGE BEAM CONSTRUCTION IS THE SAME FOR BOTH SIDES OF UNIT (MIRRORED).
2. RIDGE BEAM CONSTRUCTED WITH 3/4" 5-PLY, 5-LAYER GROUP 1 SPECIES PLYWOOD.
3. PLYWOOD GRAIN TO BE RAN SAME DIRECTION.



6 RIDGE BEAM (RB6)
1/4"=1'-0" RB6: (2) REQ'S AS SHOWN @ MATELINE H-I

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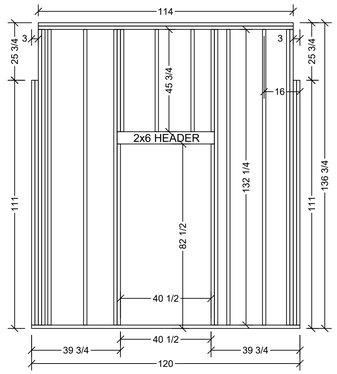
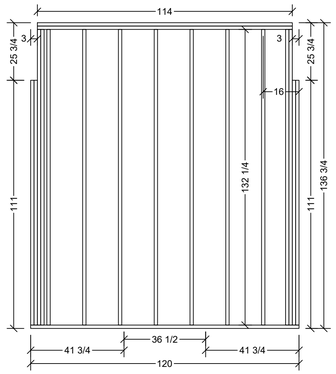
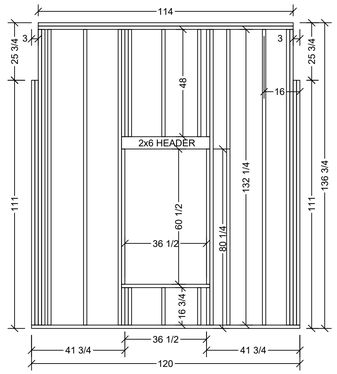


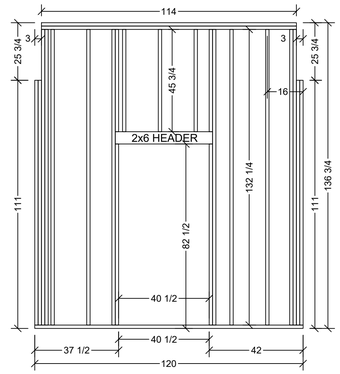
5 ENDWALL (FLOOR D)
3/8"=1'-0" EW7: (1) REQ'D AS SHOWN (REAR)



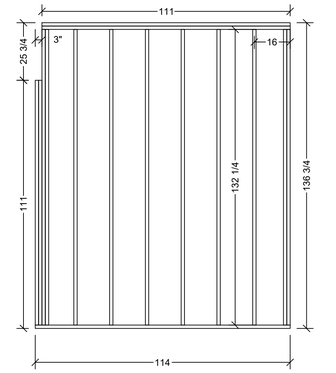
4 ENDWALL (FLOOR D)
3/8"=1'-0" EW6: (1) REQ'D AS SHOWN (HITCH)



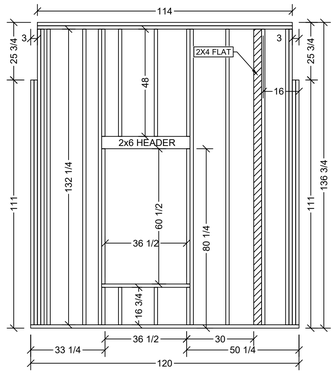
3 ENDWALLS (FLOOR C)
3/8"=1'-0" EW5: (2) REQ'D AS SHOWN (BOTH)



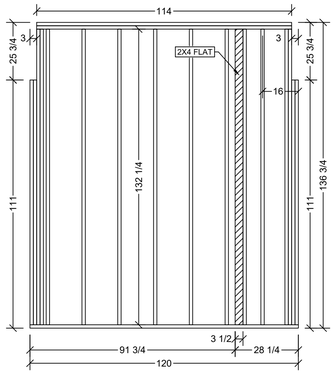
2 ENDWALLS (FLOOR B)
3/8"=1'-0" EW3: (1) REQ'D AS SHOWN (HITCH)
EW4: (1) REQ'D OPPOSITE HAND (REAR)



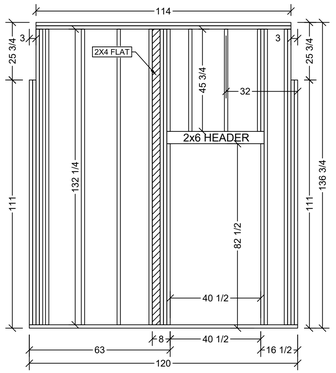
1 ENDWALLS (FLOOR A)
3/8"=1'-0" EW1: (1) REQ'D AS SHOWN (HITCH)
EW2: (1) REQ'D OPPOSITE HAND (REAR)



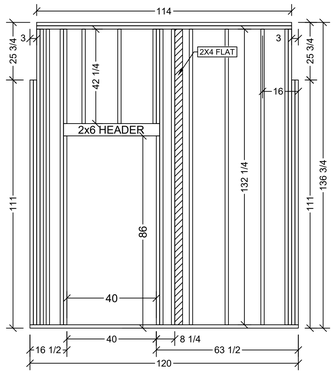
10 ENDWALL (FLOOR G)
3/8"=1'-0" EW13: (1) REQ'D AS SHOWN (REAR)



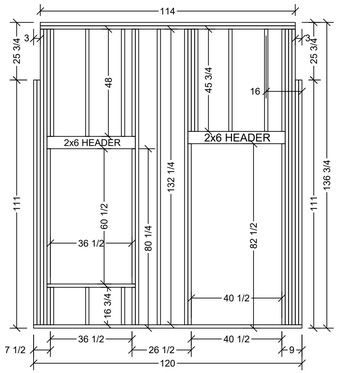
9 ENDWALL (FLOOR G)
3/8"=1'-0" EW12: (1) REQ'D AS SHOWN (HITCH)



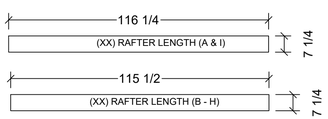
8 ENDWALL (FLOOR F)
3/8"=1'-0" EW11: (1) REQ'D AS SHOWN (REAR)



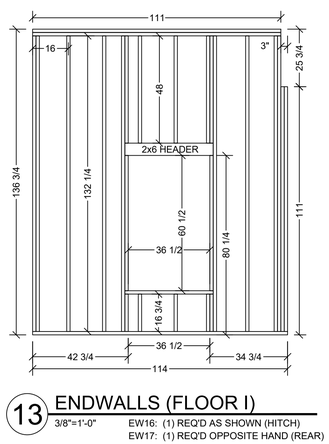
7 ENDWALL (FLOOR F)
3/8"=1'-0" EW10: (1) REQ'D AS SHOWN (HITCH)



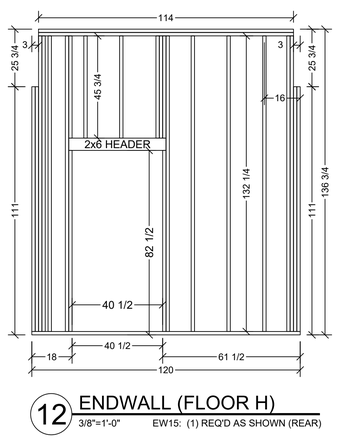
6 ENDWALLS (FLOOR E)
3/8"=1'-0" EW8: (1) REQ'D AS SHOWN (HITCH)
EW9: (1) REQ'D OPPOSITE HAND (REAR)



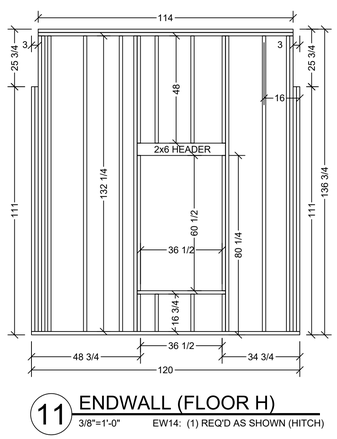
14 RAFTERS
3/8"=1'-0" R1: (XX) REQ'D AS SHOWN (FLOORS A & I)
R2: (XX) REQ'D AS SHOWN (FLOORS B-H)



13 ENDWALLS (FLOOR I)
3/8"=1'-0" EW16: (1) REQ'D AS SHOWN (HITCH)
EW17: (1) REQ'D OPPOSITE HAND (REAR)



12 ENDWALL (FLOOR H)
3/8"=1'-0" EW15: (1) REQ'D AS SHOWN (REAR)



11 ENDWALL (FLOOR H)
3/8"=1'-0" EW14: (1) REQ'D AS SHOWN (HITCH)

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PHOENIX, AZ 85043
(602) 447-6460

SHEET:
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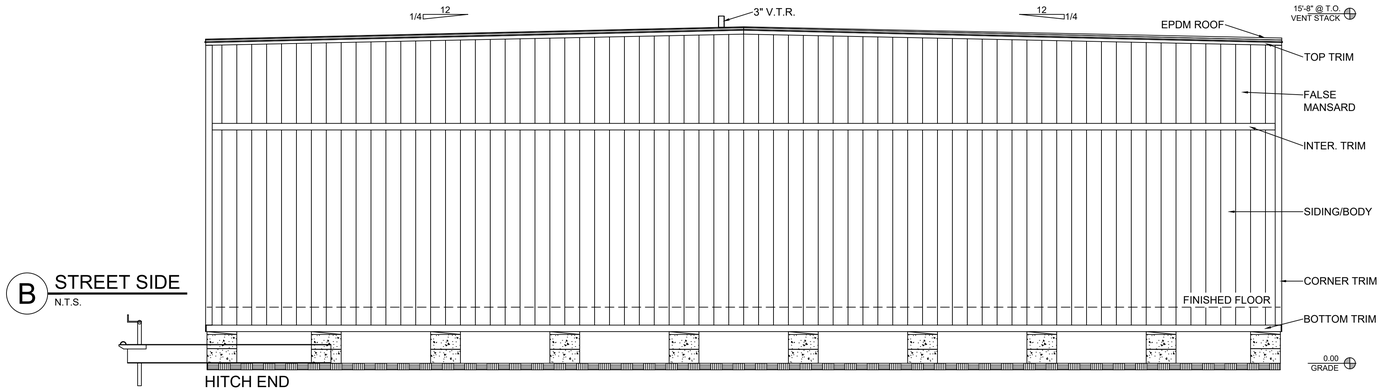
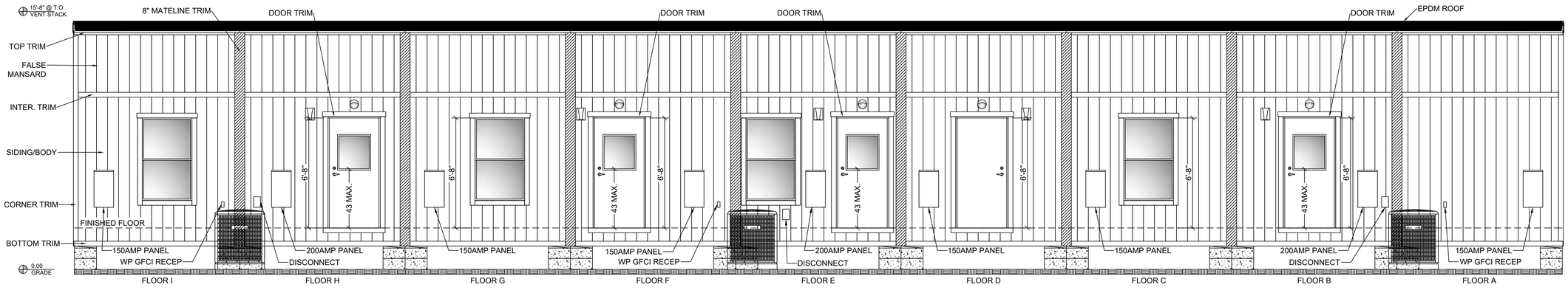
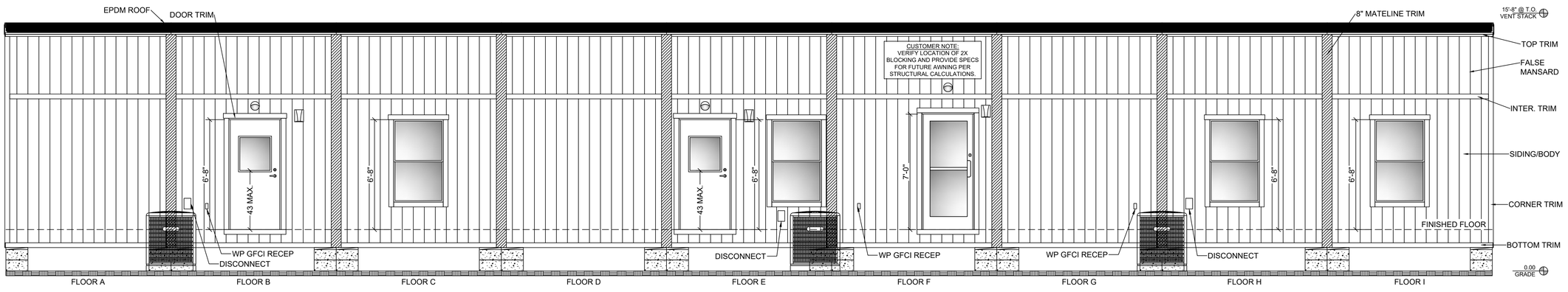
OF
18







EXTERIOR:

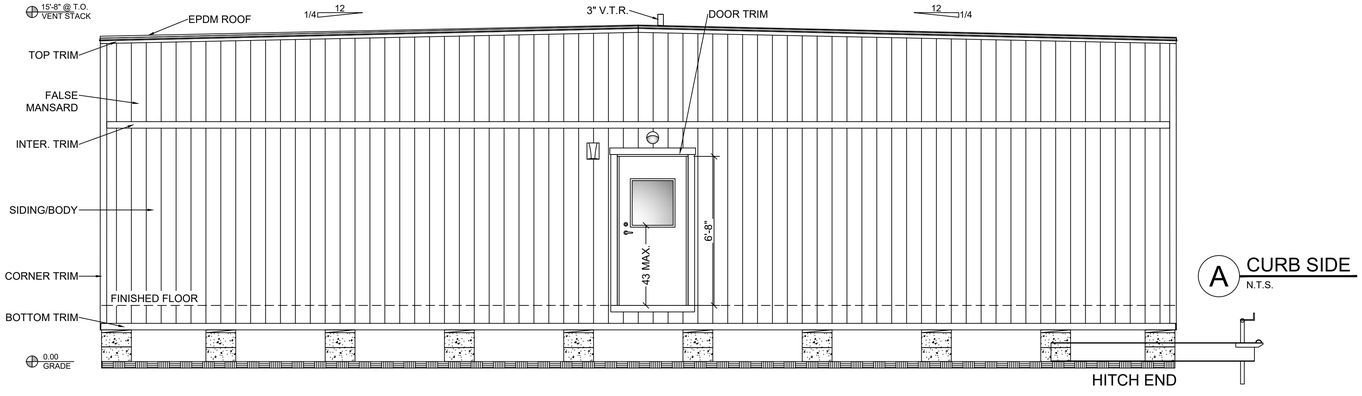
Siding body:	Color: (See Color Selections) 9' Sheets
False Mansard:	Color: (____)
4" Corner trim @ Body:	Color: (____)
4" Corner trim @ False Mansard:	Color: (____)
4" Door & Window trim:	Color: (____)
4" Bottom horizontal trim:	Color: (____)
4" Intermediate horizontal trim:	Color: (____)
4" Top horizontal trim:	Color: (____)
8" Mateline trim @ Body:	Color: (____)
8" Mateline trim @ False Mansard:	Color: (____)
All paint to be:	Satin Finish (Sherwin Williams)

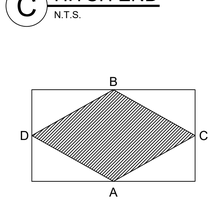
CLOSEUP:

Type:	CO Closeup (Straps 4' O.C. vertically and horizontally)
Notes:	Module WILL exceed 10'-0" (Including door hardware and lights)
Dealer Signs:	Provided by Dealer and installed at factory.
Ship Loose:	Ship loose Cove Base 2, ...T.B.D.

SKIRTING:

Skirting:	None





SIGN — DEALER SIGN (PROVIDED BY DEALER & INSTALLED @ FACTORY)

HATCHING DENOTES SHIPLOOSE TRIM

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SUNBELT MODULAR, INC.

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DEALER:
MOBILE MODULAR

PROJECT:
HAVEN HOUSE OF MONTROSE (DAYCARE - 2026)

PROJECT #:
MM9052-1

STATES:
CO.

SERIAL NUMBERS:
#19474-82

DRAWN BY:
ELV

PLOT DATE:
7/24/2026

REV # / DATE:
06/23: PRELIM. BLKG.
07/24: DRAWINGS

SHAYLON VAUGHN, P.E.
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SHEET:
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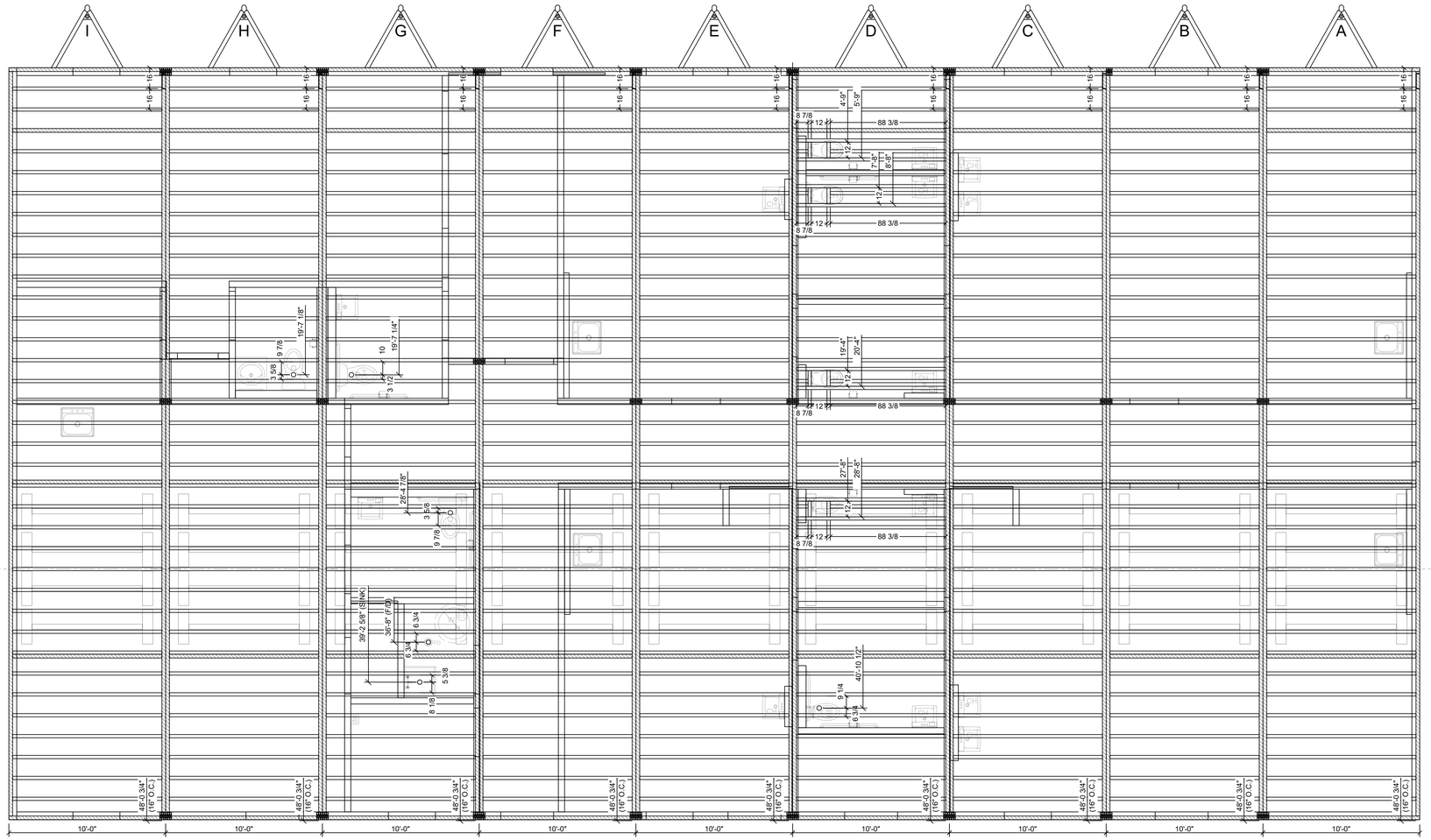
OF
18



1 FLOOR FRAMING
1/4"=1'-0"

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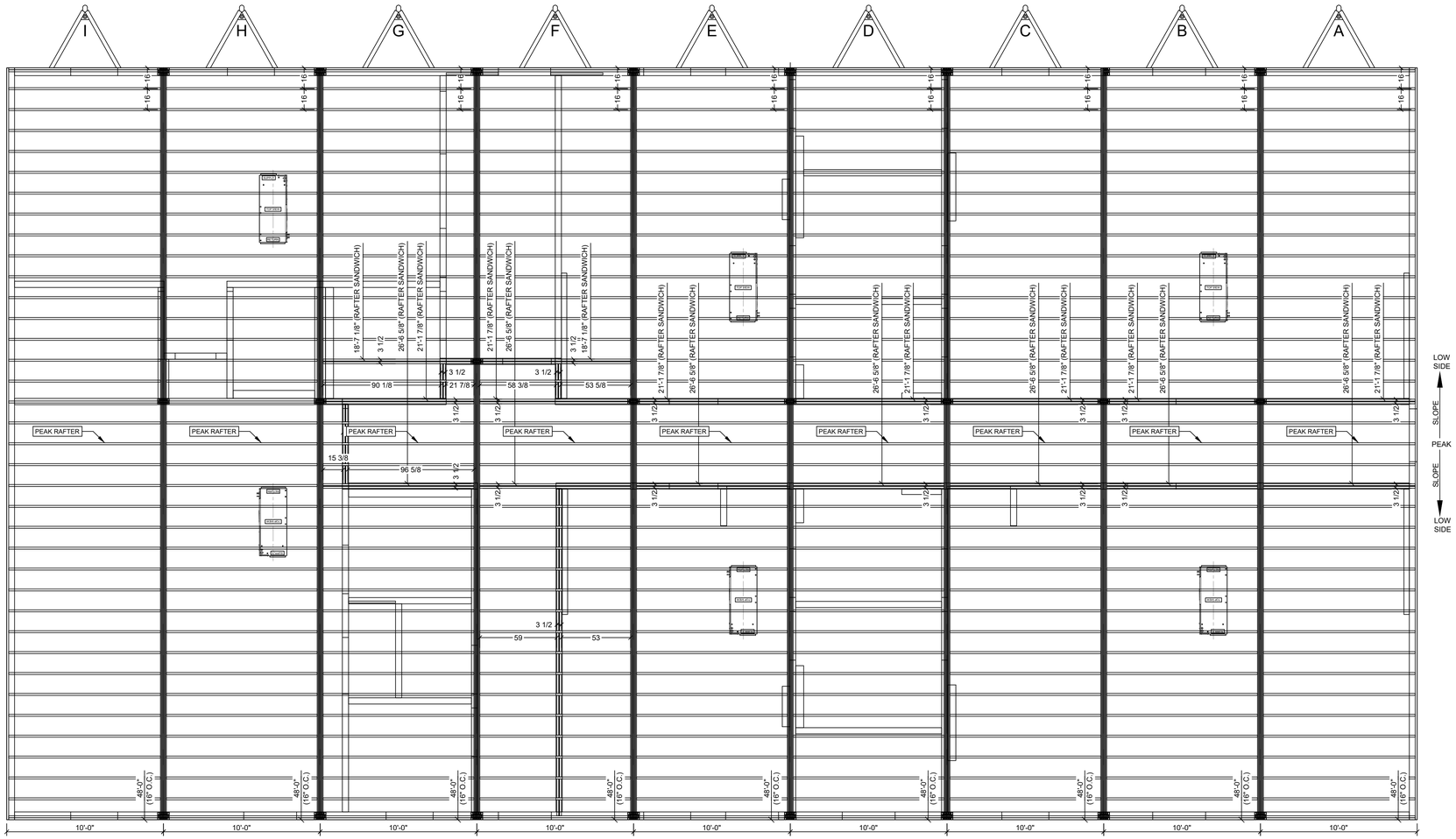

1 ROOF FRAMING
1/4"=1'-0"

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SHEET:
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OF
18

SUPPLY LINE LEGEND

- 1/2" WATER LINE
- 3/4" WATER LINE
- 1" WATER LINE
- 1-1/2" WATER LINE

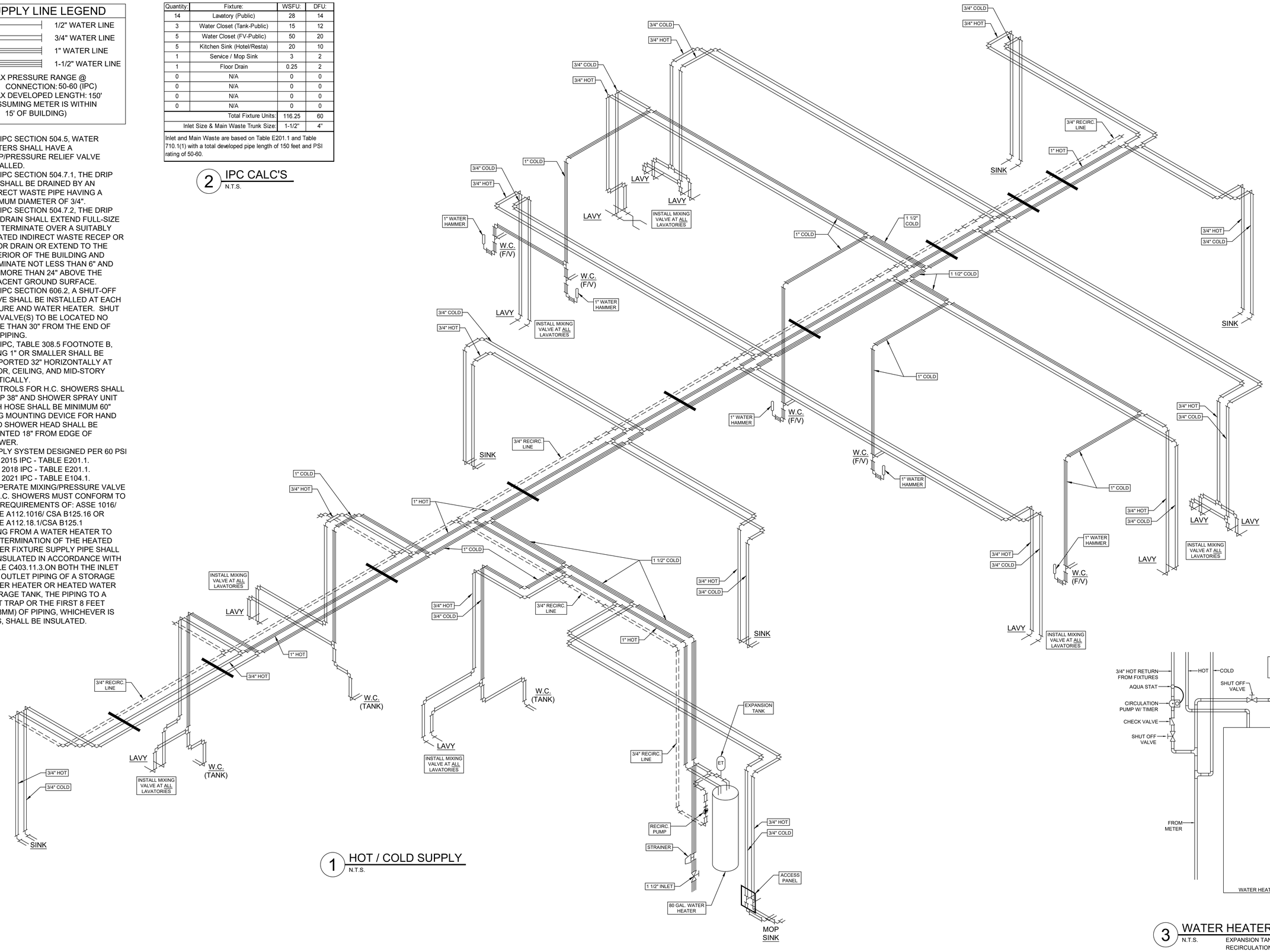
1. MAX PRESSURE RANGE @ CONNECTION: 50-60 (IPC)
2. MAX DEVELOPED LENGTH: 150' (ASSUMING METER IS WITHIN 15' OF BUILDING)

1. PER IPC SECTION 504.5, WATER HEATERS SHALL HAVE A TEMP/PRESSURE RELIEF VALVE INSTALLED.
2. PER IPC SECTION 504.7.1, THE DRIP PAN SHALL BE DRAINED BY AN INDIRECT WASTE PIPE HAVING A MINIMUM DIAMETER OF 3/4".
3. PER IPC SECTION 504.7.2, THE DRIP PAN DRAIN SHALL EXTEND FULL-SIZE AND TERMINATE OVER A SUITABLY LOCATED INDIRECT WASTE RECEP OR FLOOR DRAIN OR EXTEND TO THE EXTERIOR OF THE BUILDING AND TERMINATE NOT LESS THAN 6" AND NOT MORE THAN 24" ABOVE THE ADJACENT GROUND SURFACE.
4. PER IPC SECTION 606.2, A SHUT-OFF VALVE SHALL BE INSTALLED AT EACH FIXTURE AND WATER HEATER. SHUT OFF VALVE(S) TO BE LOCATED NO MORE THAN 30" FROM THE END OF THE PIPING.
5. PER IPC, TABLE 308.5 FOOTNOTE B, PIPING 1" OR SMALLER SHALL BE SUPPORTED 32" HORIZONTALLY AT FLOOR, CEILING, AND MID-STORY VERTICALLY.
6. CONTROLS FOR H.C. SHOWERS SHALL BE UP 38" AND SHOWER SPRAY UNIT WITH HOSE SHALL BE MINIMUM 60" LONG MOUNTING DEVICE FOR HAND HELD SHOWER HEAD SHALL BE MOUNTED 18" FROM EDGE OF SHOWER.
7. SUPPLY SYSTEM DESIGNED PER 60 PSI AND 2015 IPC - TABLE E201.1.
   2018 IPC - TABLE E201.1.
   2021 IPC - TABLE E104.1.
8. TEMPERATE MIXING/PRESSURE VALVE AT H.C. SHOWERS MUST CONFORM TO THE REQUIREMENTS OF: ASSE 1016/ ASME A112.1016/ CSA B125.16 OR ASME A112.18.1/CSA B125.1
9. PIPING FROM A WATER HEATER TO THE TERMINATION OF THE HEATED WATER FIXTURE SUPPLY PIPE SHALL BE INSULATED IN ACCORDANCE WITH TABLE C403.11.3.ON BOTH THE INLET AND OUTLET PIPING OF A STORAGE WATER HEATER OR HEATED WATER STORAGE TANK, THE PIPING TO A HEAT TRAP OR THE FIRST 8 FEET (2438MM) OF PIPING, WHICHEVER IS LESS, SHALL BE INSULATED.

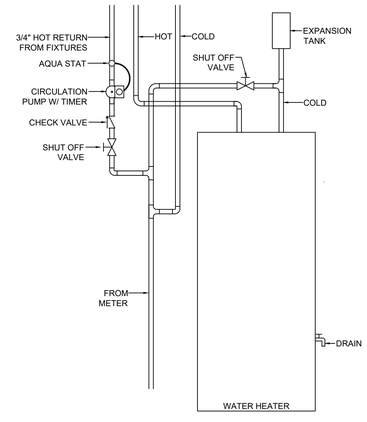
Quantity:	Fixture:	WSFU:	DFU:
14	Lavatory (Public)	28	14
3	Water Closet (Tank-Public)	15	12
5	Water Closet (FV-Public)	50	20
5	Kitchen Sink (Hotel/Resta)	20	10
1	Service / Mop Sink	3	2
1	Floor Drain	0.25	2
0	N/A	0	0
0	N/A	0	0
0	N/A	0	0
0	N/A	0	0
	Total Fixture Units:	116.25	60
	Inlet Size & Main Waste Trunk Size:	1-1/2"	4"

Inlet and Main Waste are based on Table E201.1 and Table 710.1(1) with a total developed pipe length of 150 feet and PSI rating of 50-60.

2 IPC CALC'S
N.T.S.



1 HOT / COLD SUPPLY
N.T.S.



3 WATER HEATER
N.T.S. EXPANSION TANK & RECIRCULATION PUMP

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MOBILE MODULAR

PROJECT:
HAVEN HOUSE OF MONTROSE
(DAYCARE - 2026)

PROJECT #:
MM9052-1

STATES:
CO.

SERIAL NUMBERS:
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DRAWN BY:
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PLOT DATE:
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SHEET:
15
OF
18

DRAIN/WASTE PIPING LEGEND

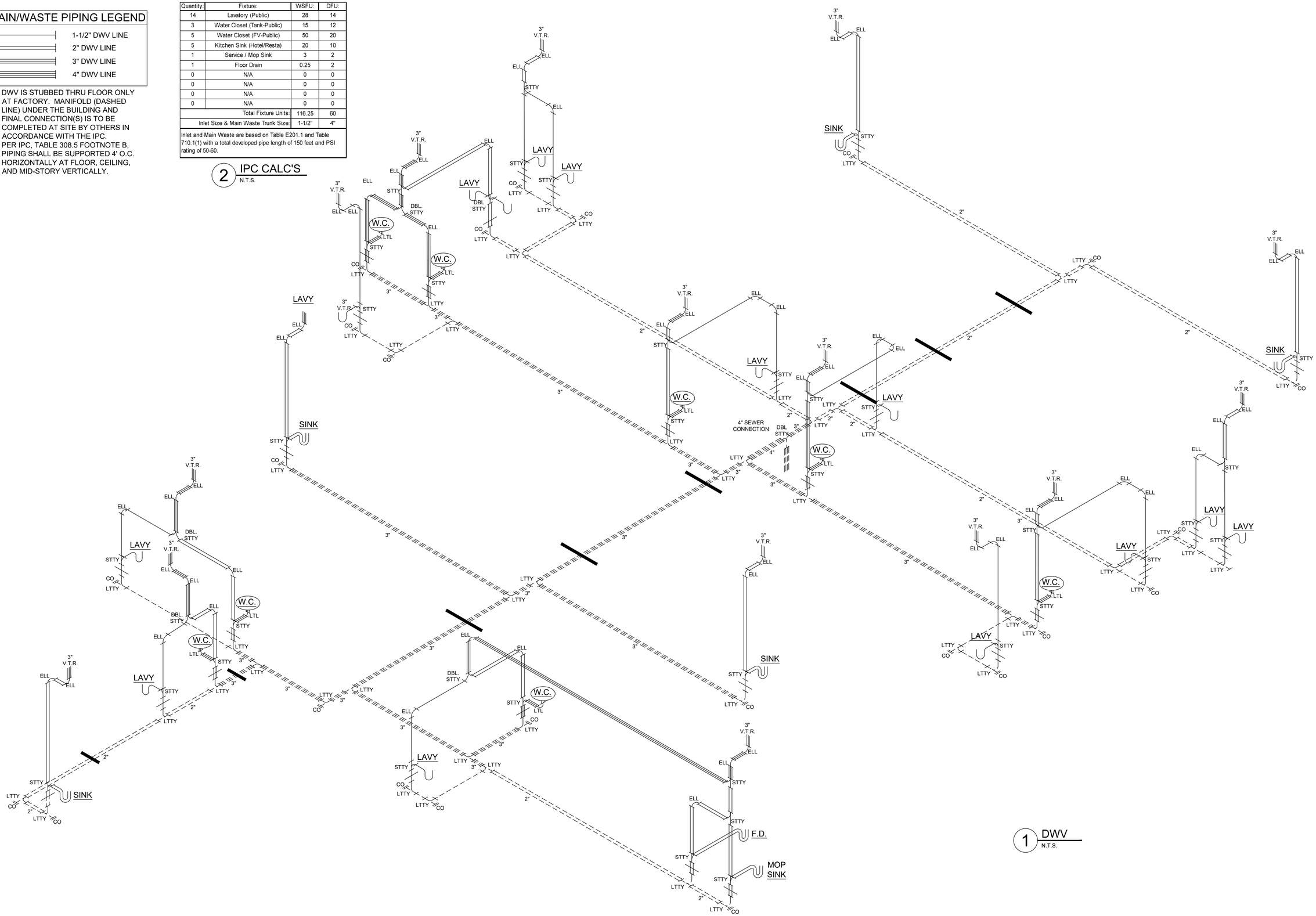
- 1-1/2" DWV LINE
- 2" DWV LINE
- 3" DWV LINE
- 4" DWV LINE

1. DWV IS STUBBED THRU FLOOR ONLY AT FACTORY. MANIFOLD (DASHED LINE) UNDER THE BUILDING AND FINAL CONNECTION(S) IS TO BE COMPLETED AT SITE BY OTHERS IN ACCORDANCE WITH THE IPC.
2. PER IPC, TABLE 308.5 FOOTNOTE B, PIPING SHALL BE SUPPORTED 4' O.C. HORIZONTALLY AT FLOOR, CEILING, AND MID-STORY VERTICALLY.

Quantity:	Fixture:	WSFU:	DFU:
14	Lavatory (Public)	28	14
3	Water Closet (Tank-Public)	15	12
5	Water Closet (FV-Public)	50	20
5	Kitchen Sink (Hotel/Resta)	20	10
1	Service / Mop Sink	3	2
1	Floor Drain	0.25	2
0	N/A	0	0
0	N/A	0	0
0	N/A	0	0
0	N/A	0	0
	Total Fixture Units:	116.25	60
	Inlet Size & Main Waste Trunk Size:	1-1/2"	4"

Inlet and Main Waste are based on Table E201.1 and Table 710.1(1) with a total developed pipe length of 150 feet and PSI rating of 50-60.

2 IPC CALC'S
N.T.S.



1 DWV
N.T.S.

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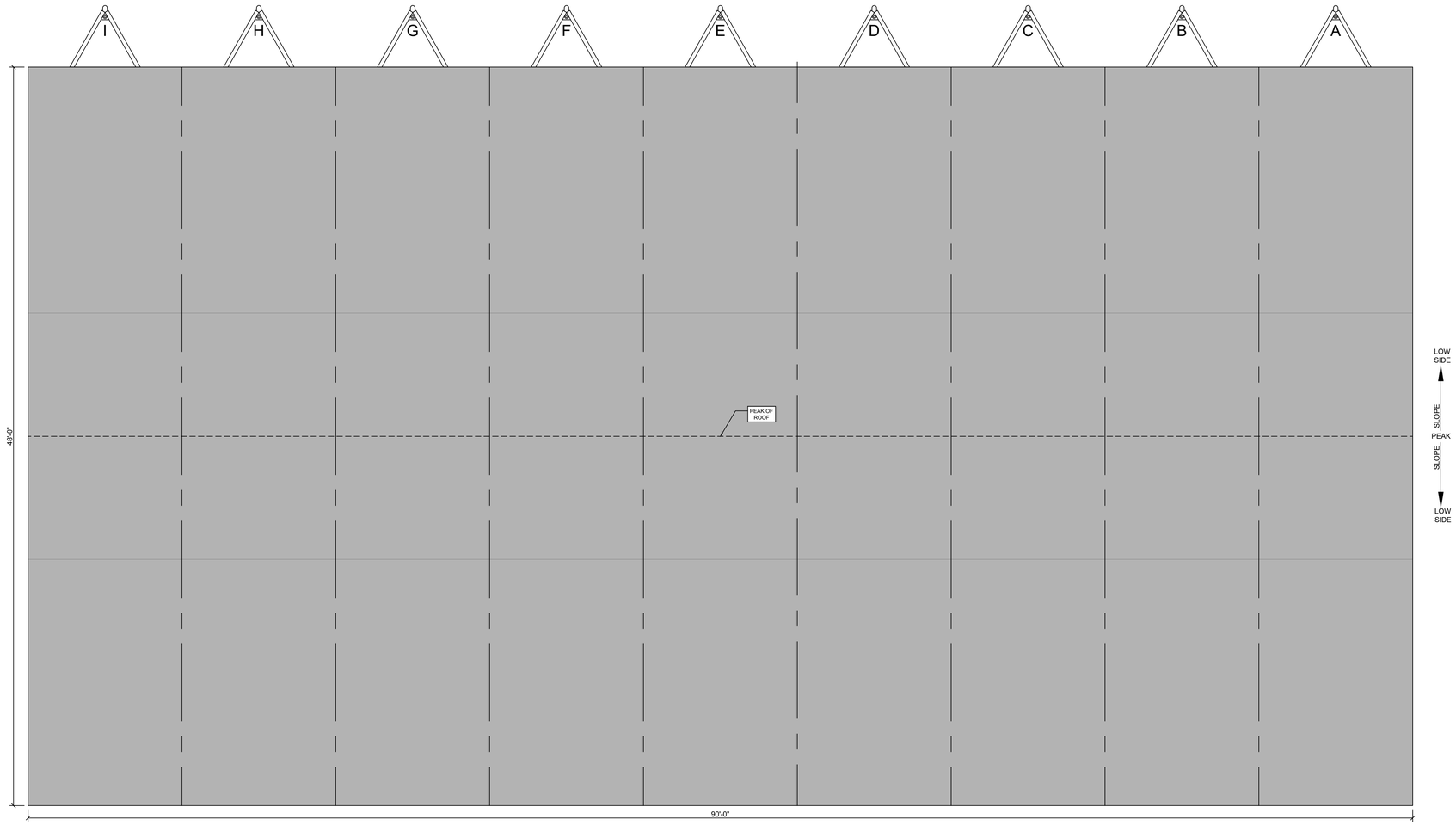
ROOF LEGEND

	INDICATES TOTAL SOLAR-READY ROOF AREA (MIN. 1728 SQ. FT.)



1 SOLAR-READY ROOF PLAN

1/4"=1'-0" TOTAL: 4320 SQ. FT.

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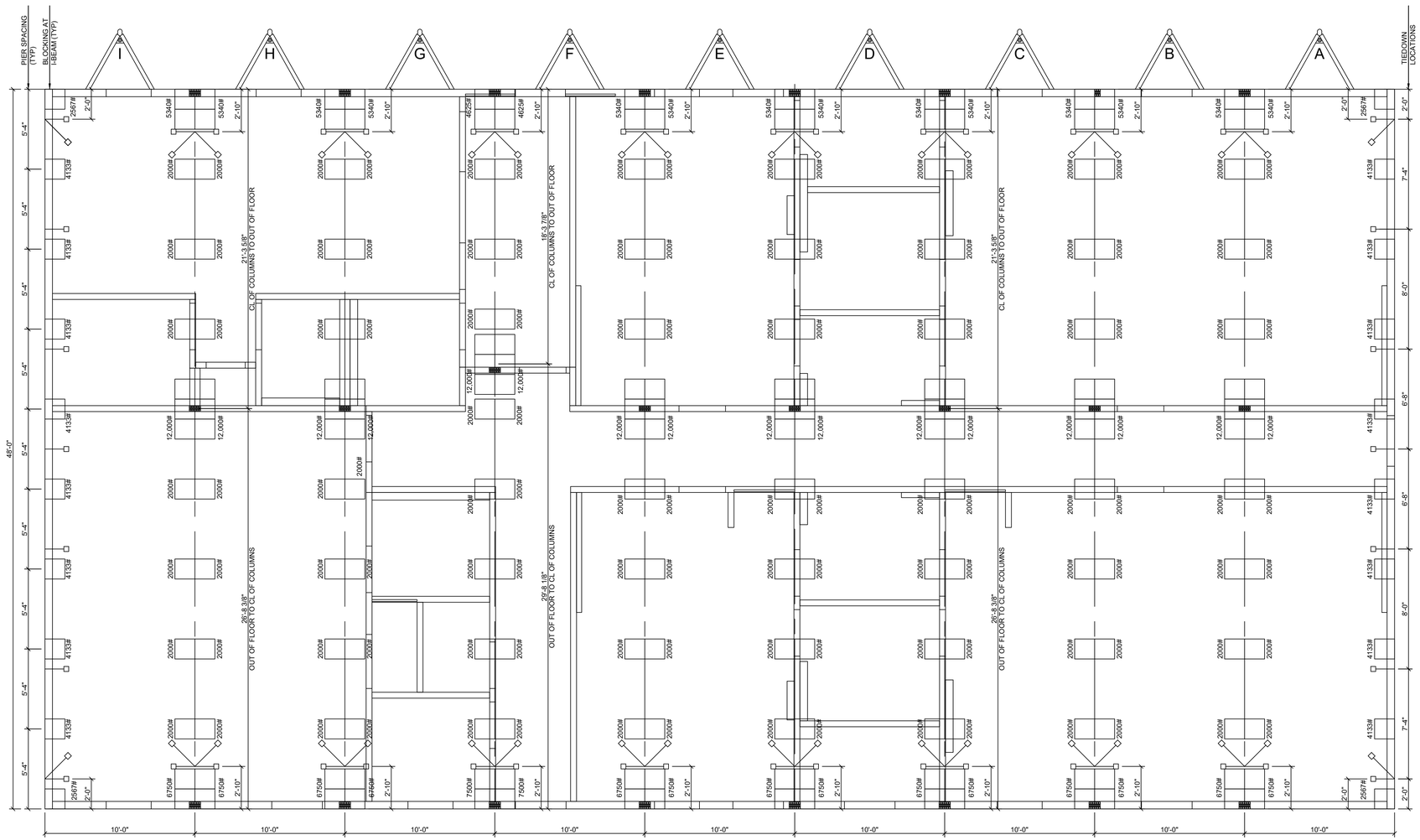

1 SUGGESTED BLOCKING PLAN

1/4"=1'-0" (NOT IN AMTEX SCOPE OF WORK)

THE SUGGESTED BLOCKING LAYOUT IS A RECOMMENDATION FOR THE LAYOUT OF THE FOUNDATION ELEMENTS. A LICENSED PROFESSIONAL ENGINEER(S) MUST BE RETAINED TO INVESTIGATE SOIL CONDITIONS, AND PROVIDE THE FINAL FOUNDATION DESIGN.

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