

Monday, November 23, 2020

St. Margaret of Scotland Catholic – Temp Facility

2510 Enterprise Blvd., Lake Charles, LA 70601

ADDENDUM NO. **One (1)**

To the drawings and specifications dated **2020-10-22**:

NOTE:

1. This Addendum shall be considered as part of the original Contract Documents for the above-mentioned Project as though it had been issued at the same time and incorporated integrally therewith. All changes to the work and/or additional work contained herein shall be governed by the requirements of the Contract Documents. Where provisions of the following supplementary data differ from those of the original Contract Documents, this Addendum shall govern and take precedence.
2. Bidders are hereby notified that they shall make any necessary adjustments in their bid price on account of this Addendum. It must be acknowledged on the bid form that each bidder's proposal is submitted with full knowledge of all modifications and supplemental data specified herein.
3. Although additional may have been discussed during bidding, only items which have been adjusted, added, or removed via addenda are to be made part of the Construction Documents. This includes correspondence made via email. In the absence of changes by Addenda, the provisions of the originally issued construction documents will be required and enforced. If there are any outstanding issues which the bidder feels were discussed and should be added herein, the bidder is encouraged to point these issues out to the Architect prior to the bid date so that action may be considered.

ARCHITECTURAL

ADA1.1 SHEET A1.01 - ARCHITECTURAL SITE PLAN

Replace sheet A1.01 with sheet A1.01R1. General Notes change.

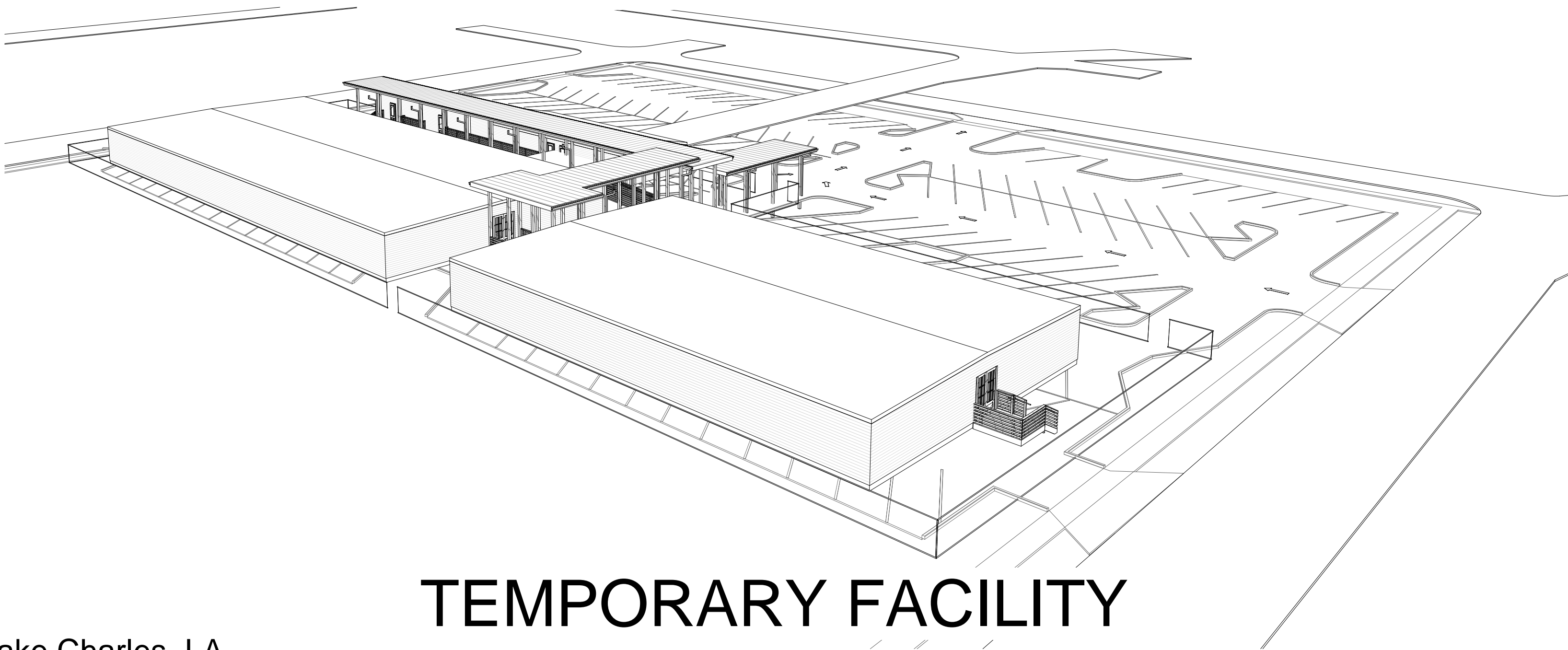
PLUMBING

ADP1.1 SHEET P1.01 – PLUMBING SITE PLAN

Replace sheet P1.01 with sheet P12.01R1. Revised water and sewer locations.

Diocese of Lake Charles

St. Margaret of Scotland Catholic



Lake Charles, LA

Graphic Symbols

	SPECIFICATION SECTION	ARCHITECTURAL KEYNOTE
	KEYNOTE REFERENCE	
	SPECIFICATION SECTION	TYPICAL REFERENCE NUMBER
	SHEET NUMBER	
		SECTION OR DETAIL REFERENCE
		DETAIL REFERENCE
		DOOR MARK AND NUMBER
		WINDOW MARK AND NUMBER
		PARTITION REFERENCE
		EXISTING SPOT ELEVATION
		NEW SPOT ELEVATION
		INTERIOR ELEVATION
		EXTERIOR ELEVATION

Project Directory

PROJECT ADDRESS
ST MARGARET CATHOLIC SCHOOL
2510 ENTERPRISE BLVD
LAKE CHARLES, LOUISIANA
70601
PHONE (337)-436-7959

OWNER
DIOCESE OF LAKE CHARLES

PROJECT CONTACT PERSON(S)
OWNERS REP:
LEMOINE DISASTER RECOVERY
PH: (337)-896-7720

ARCHITECT:
ACSW ARCHITECTS
115 E MAIN STREET
LAFAYETTE, LA 70501
PH: (337)-237-2211
FAX: (337)-237-2213

MECHANICAL AND ELECTRICAL ENGINEER
ASSOCIATED DESIGN GROUP, INC.
3909 W CONGRESS STREET
SUITE #201
LAFAYETTE, LA
70506
PH: (337) 234-5710

Vicinity Map



NOTE TO GENERAL CONTRACTOR:
NO SURVEY WAS AVAILABLE TO THE ARCHTIECT FOR THE PRODUCTION OF THESE DOCUMENTS. AS SUCH, IT WILL BE UP TO GC TO VERIFY ALL PROPERTY LINES, SETBACKS, EASEMENTS, SERVITUDE, ETC. ON PROPOSED SITE AS REQUIRED TO INSTALL THE WORK. SHOULD ANY CONFLICTS BE IDENTIFIED, GC WILL COORDINATE ALL WORK WITH OWNER'S PROJECT MANAGER AND ARCHITECT.

SHEET INDEX

GENERAL	GENERAL
A0.00	GENERAL
ARCHITECTURAL	ARCHITECTURAL
D1.01	ARCHITECTURAL
ARCHITECTURAL	ARCHITECTURAL
A1.01	ARCHITECTURAL
A1.02	ARCHITECTURAL
A1.03	ARCHITECTURAL
A6.01	ARCHITECTURAL
A6.02	ARCHITECTURAL
A6.03	ARCHITECTURAL
TEMP BLDG	TEMP BLDG
MP1.01	TEMP BLDG
MP1.02	TEMP BLDG
MP1.03	TEMP BLDG
MP2.01	TEMP BLDG
MP3.01	TEMP BLDG
ELECTRICAL	ELECTRICAL
E1.01	ELECTRICAL
E2.01	ELECTRICAL
E2.02	ELECTRICAL
E2.03	ELECTRICAL
E3.01	ELECTRICAL
E3.02	ELECTRICAL
FIRE ALARM	FIRE ALARM
FA1.01	FIRE ALARM
PLUMBING	PLUMBING
P1.01	PLUMBING
P2.01	PLUMBING

Project Data

ZONING
CITY OF LAKE CHARLES
ZONING NEIGHBORHOOD

APPLICABLE CODES
NATIONAL ELECTRIC CODE - NFPA 70, 2014 ED.
INTERNATIONAL BUILDING CODE (IBC), 2015 ED.
STANDARD TYPES OF BUILDING CONSTRUCTION - NFPA 220, LATEST ED.
INTERNATIONAL MECHANICAL CODE, 2015 ED.
INTERNATIONAL PLUMBING CODE, 2015 WITH AMENDMENTS
LIFE SAFETY CODE (LSC) - NFPA 101, 2015 EDITION

PROJECT DESCRIPTION
PROVIDE POWER, WATER, SEWER, AND LOCATION TO TEMPORARY BUILDINGS FOR SCHOOL CAMPUS.

BUILDING RISK CATEGORY
SEE ATTACHED TEMPORARY BUILDING DOCUMENTS

BUILDING WIND SPEED
SEE ATTACHED TEMPORARY BUILDING DOCUMENTS

OCCUPANCY CLASSIFICATION
SEE ATTACHED TEMPORARY BUILDING DOCUMENTS

CONSTRUCTION TYPES
• IBC - SEE ATTACHED TEMPORARY BUILDING DOCUMENTS
• NFPA - SEE ATTACHED TEMPORARY BUILDING DOCUMENTS

BUILDING HEIGHT
• ALLOWED SEE ATTACHED TEMPORARY BUILDING DOCUMENTS
• PROVIDED SEE ATTACHED TEMPORARY BUILDING DOCUMENTS

BUILDING AREA
• ALLOWED SEE ATTACHED TEMPORARY BUILDING DOCUMENTS
• PROVIDED SEE ATTACHED TEMPORARY BUILDING DOCUMENTS

OCCUPANCY LOAD
SEE ATTACHED TEMPORARY BUILDING DOCUMENTS

PLUMBING REQUIREMENTS
SEE ATTACHED TEMPORARY BUILDING DOCUMENTATION

PARKING
PER CONVERSATION WITH LAKE CHARLES PLANNING DEPARTMENT, USE OF TEMPORARY BUILDINGS ON TOP OF CURRENT PARKING LOT (REDUCING TOTAL NUMBER OF AVAILABLE SPACES) WILL BE PERMITTED FOR ONE YEAR.



KEY PLAN

Construction Documents

No.	Description	Date

St. Margaret of Scotland Catholic - Temp Facilities

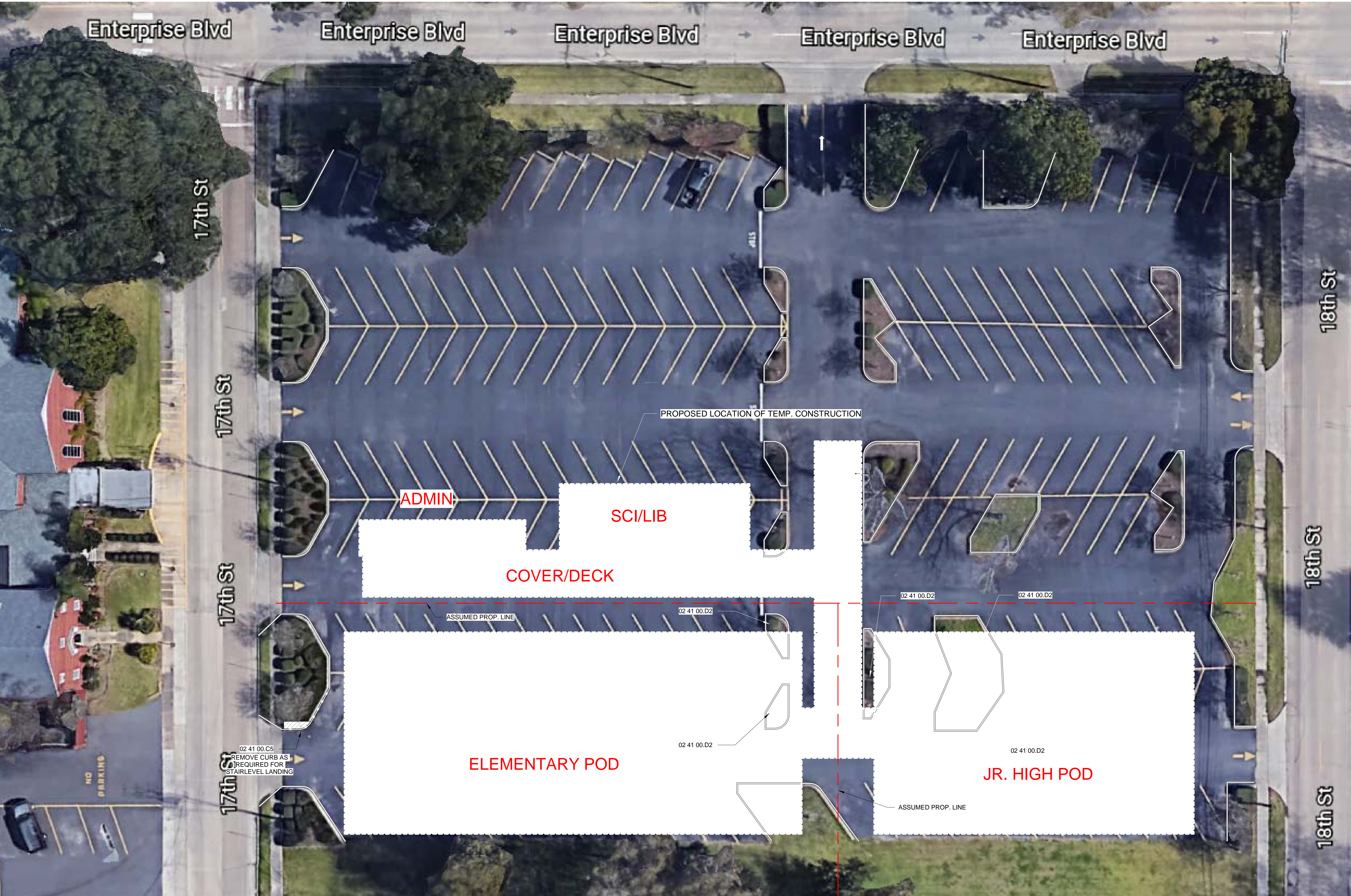
COVER SHEET

Copyright 2020 ACSW

ACSW Project number	20010
Date	10-22-2020
Drawn by	Author
Checked by	Checker

A0.00

Scale	As indicated
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SITE PLAN - DEMO PLAN - NOT TO SCALE



ABELL+CROZIER • ARCHITECTS SOUTHWEST
PLANNING | ARCHITECTURE | INTERIORS

KEYNOTE EXPLANATION

02 41 00.C5	CONCRETE TO BE REMOVED
02 41 00.D2	REMOVE EXISTING TREES AND SHRUBS AS REQUIRED TO INSTALL NEW WORK

KEY PLAN

Construction Documents

No.	Description	Date



St. Margaret of Scotland
Catholic - Temp Facilities

SITE DEMO

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ACSW Project number	20042
Date	10-22-2020
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Checked by	Checker

D1.01

Scale	1/16" = 1'-0"
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KEYNOTE EXPLANATION

07 62 00.G4 3'X3' DOWNSPOUT
32 31 13.A4 6'-0" HIGH TEMPORARY CHAIN LINK FENCE
32 31 13.B2 CHAIN LINK GATE

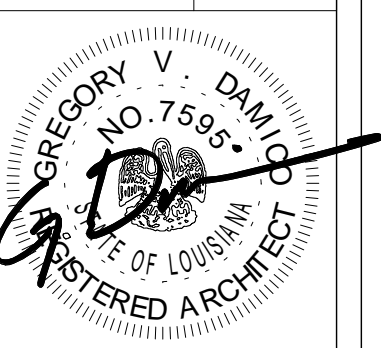
GENERAL NOTES:

- NO SURVEY WAS PROVIDED. GC TO VERIFY LIMITS OF PROPERTY, REQUIRED SETBACKS, EASEMENTS, UTILITY LINES, AND ANY OTHER CITY ORDINANCES REQUIRED.
- ALL FASTENERS TO BE APPROVED FOR USEAGE WITH TREATED WOOD.
- ALL WOOD TO BE #2 TREATED SOUTHERN YELLOW PINE.
- FINISH FLOOR IS SET TO 3'-0" A.F.F. IF IN-FIELD CONDITIONS VARY, IT WILL BE UP TO THE GC TO MODIFY ALL RAMPS AND STAIRS AS REQUIRED TO MEET CODE.
- GC SHALL BE RESPONSIBLE FOR LEVEL LANDINGS AT ALL STAIRS AND RAMPS AND SHALL ASSURE ALL THRESHOLDS AT DOORS MEET ADA STANDARDS.
- ALL WOOD FRAMING (WHETHER INDICATED OR NOT) SHALL BE TREATED.
- CONTRACTOR TO COORDINATE ALL SPECIAL SYSTEM AN ELECTRICAL CONDUITS PRIOR TO INSTALLING DECKING. REFERENCE SPECIAL SYSTEM DRAWINGS FOR MORE INFORMATION.
- ELEVATED DECKS, RAMPS, STAIRS, AND RAILINGS SHALL, INCLUDING FINAL DETAILING AND CONSTRUCTION, SHALL BE COORDINATED WITH THE TEMPORARY BUILDING PACKAGE.
- ALL RAMPS TO BE 1:12 SLOPE; ALL LANDINGS MAX 1:50 SLOPE.
- CONTRACTOR TO VERIFY ACCEPTABILITY OF REQUIRED BUILDING PENETRATIONS PRIOR TO PROCEEDING WITH WORK.
- REFERENCE ASSOCIATED DRAWINGS FROM MODULAR BUILDING SUPPLIER FOR BUILDING PLANS ASSOCIATED WITH THE TYPES OF STRUCTURES PROVIDED.
- AT CONTRACTORS OPTION, ENGINEERED STAIRS, RAMPS, CANOPIES AND/OR ELEVATED WALKWAYS MAY BE PROVIDED BY GC. ALL PROVIDED ITEMS MUST MEET CURRENT STATE AND LOCAL CODE REQUIREMENTS.
- ALL DECKING TO BE SNUG FIT WITH (2) #12'S AT EVERY SUPPORT.
- DECK PLANKS TO BE FULL LENGTH

KEY PLAN

Construction Documents

No.	Description	Date



St. Margaret of Scotland
Catholic - Temp Facilities

OVERALL SITE PLAN

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A1.01

Scale As indicated

Department Legend

- Admin
- Elementary
- Jr. High
- Library
- Science

17TH STREET

CAMPUS

18TH STREET

DROP OFF



KEYNOTE EXPLANATION

07 62 00.G4	3"X3" DOWNSPOUT
32 31 13.A4	6'-0" HIGH TEMPORARY CHAIN LINK FENCE
32 31 13.B2	CHAIN LINK GATE

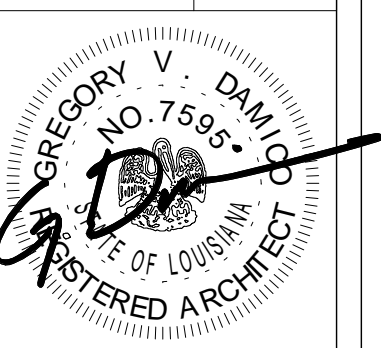
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- ALL DECKING TO BE SNUG FIT WITH (2) #12'S AT EVERY SUPPORT.
- DECK PLANKS TO BE FULL LENGTH.
- GC RESPONSIBLE FOR ANY COORDINATION AND PATCHING OF PAVING WHERE SUB-SURFACE WORK IS REQUIRED. PATCH OF WORK SHALL BE CONSISTENT WITH SURROUNDING PAVING AND EQUAL OR GREATER STANDARD.

KEY PLAN

Construction Documents

No.	Description	Date
1	Addenda 001	11-23-2020



St. Margaret of Scotland
Catholic - Temp Facilities

OVERALL SITE PLAN

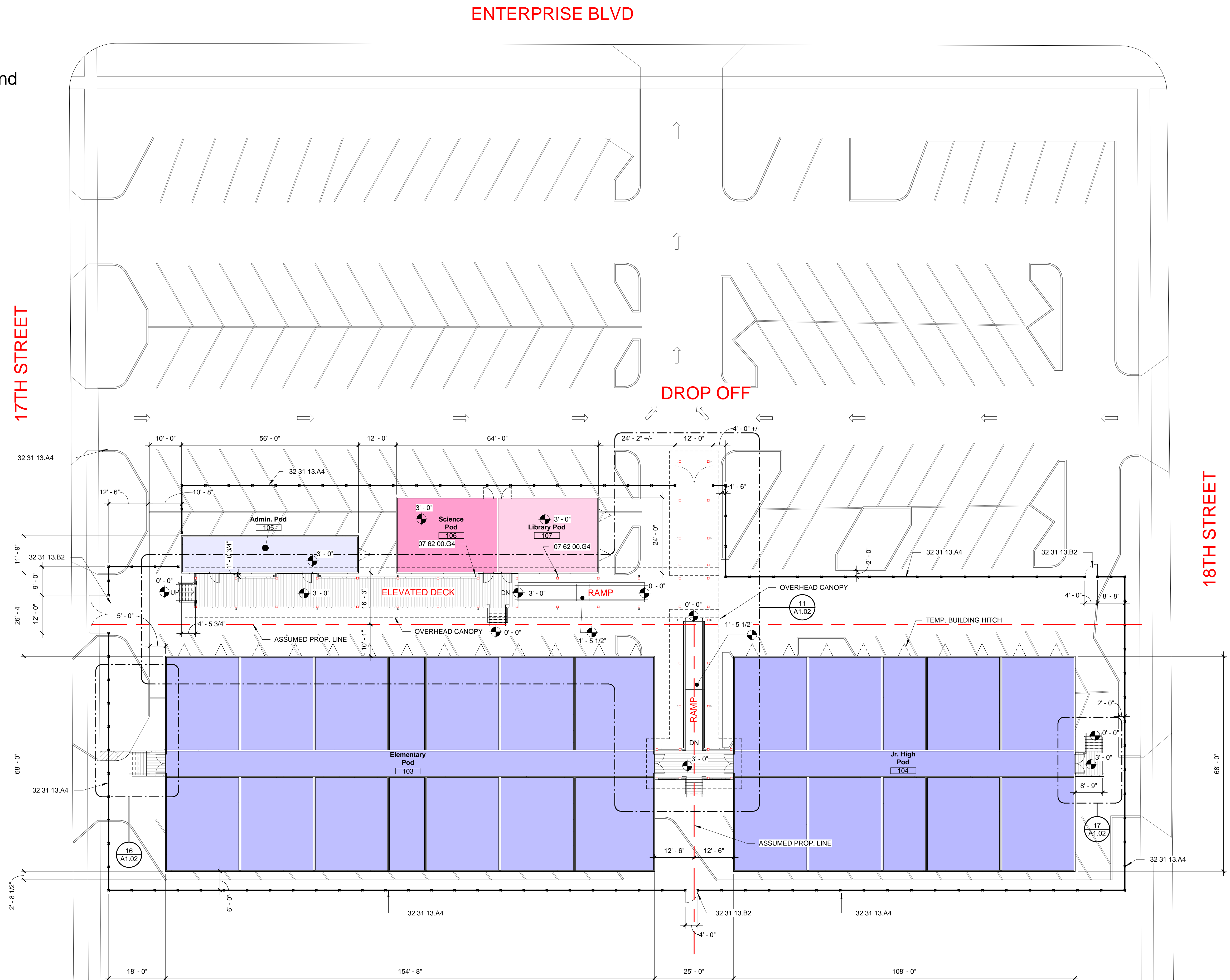
Copyright 2020 ACSW	
ACSW Project number	20010
Date	10-22-2020
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Checked by	Checker

A1.01R1

Scale	As indicated
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Department Legend

- Admin
- Elementary
- Jr. High
- Library
- Science



KEYNOTE EXPLANATION

05 52 00.A6	1-1/2" OUTSIDE DIAMETER CONTINUOUS HANDRAIL
06 13 23.X1	TREATED 8X8 POST; EXTENDING APPROX. 4' BELOW "GRADE". TOP OF POSTS TO BE SET AT SAME ELEV. REFERENCE SECTION OF ELEVATED DECK
06 20 00.D6	2X6 TREATED WOOD DECK
06 20 00.R3	TREATED WOOD RAILING SYSTEM
06 20 00.R4	TREATED WOOD RAMPLANDING AT GC'S OPTION
06 20 00.R5	TREATED WOOD ELEVATED DECK
06 20 00.S4	TREATED WOOD STAIR/LANDING AT GC'S OPTION
07 62 00.G4	3"X3" DOWNSPOUT
32 13 00.C2	4" CONCRETE PAVING WITH WWF 6 X 6 W1.4/W1.4 AT MID-DEPTH
32 31 13.A4	6'-0" HIGH TEMPORARY CHAIN LINK FENCE
32 31 13.B2	CHAIN LINK GATE

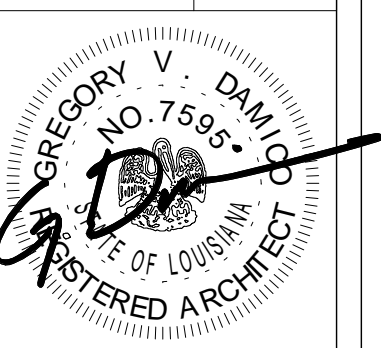
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KEY PLAN

Construction Documents

No.	Description	Date



St. Margaret of Scotland
Catholic - Temp Facilities

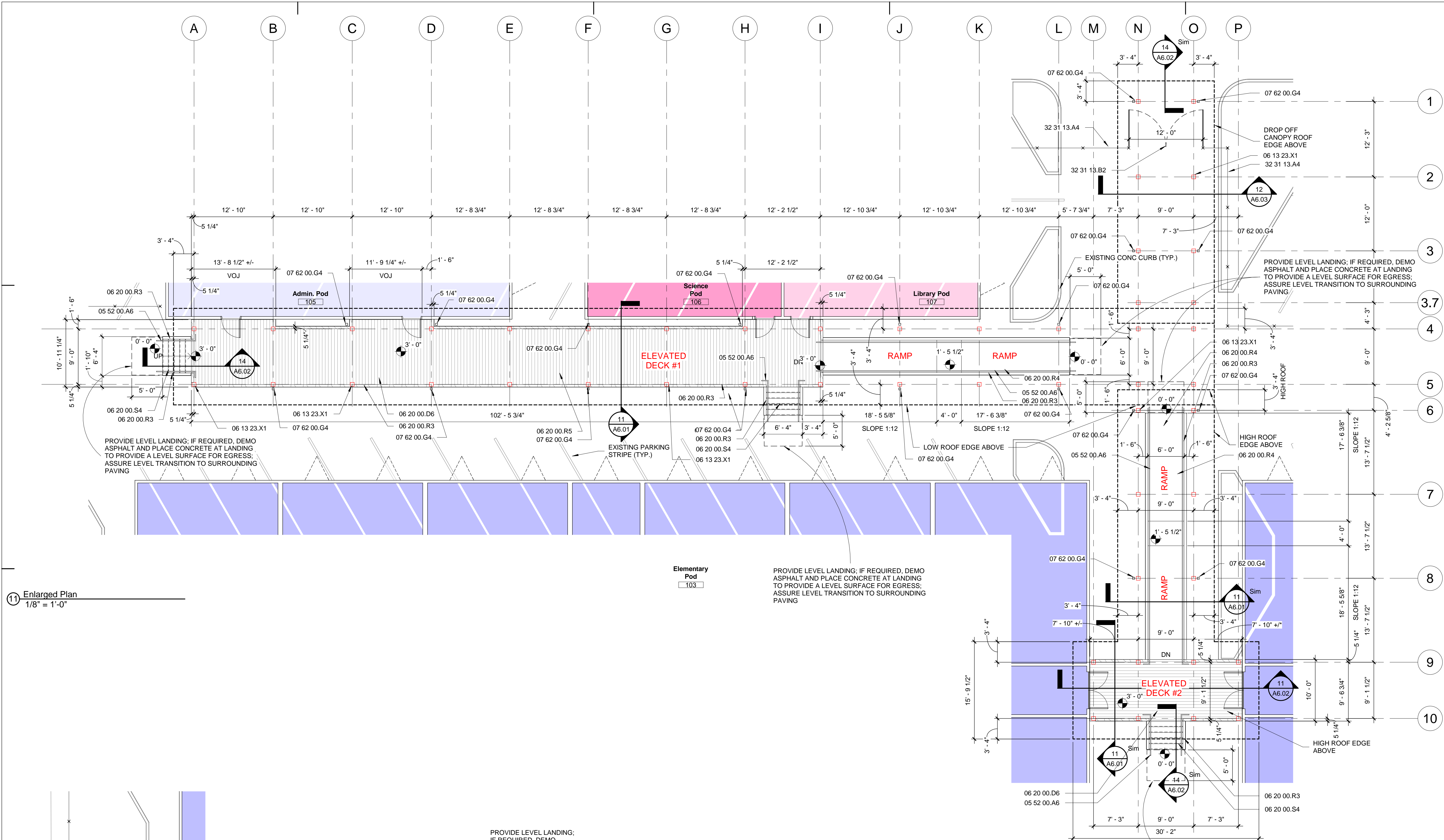
COVERED
WALKWAY PLAN

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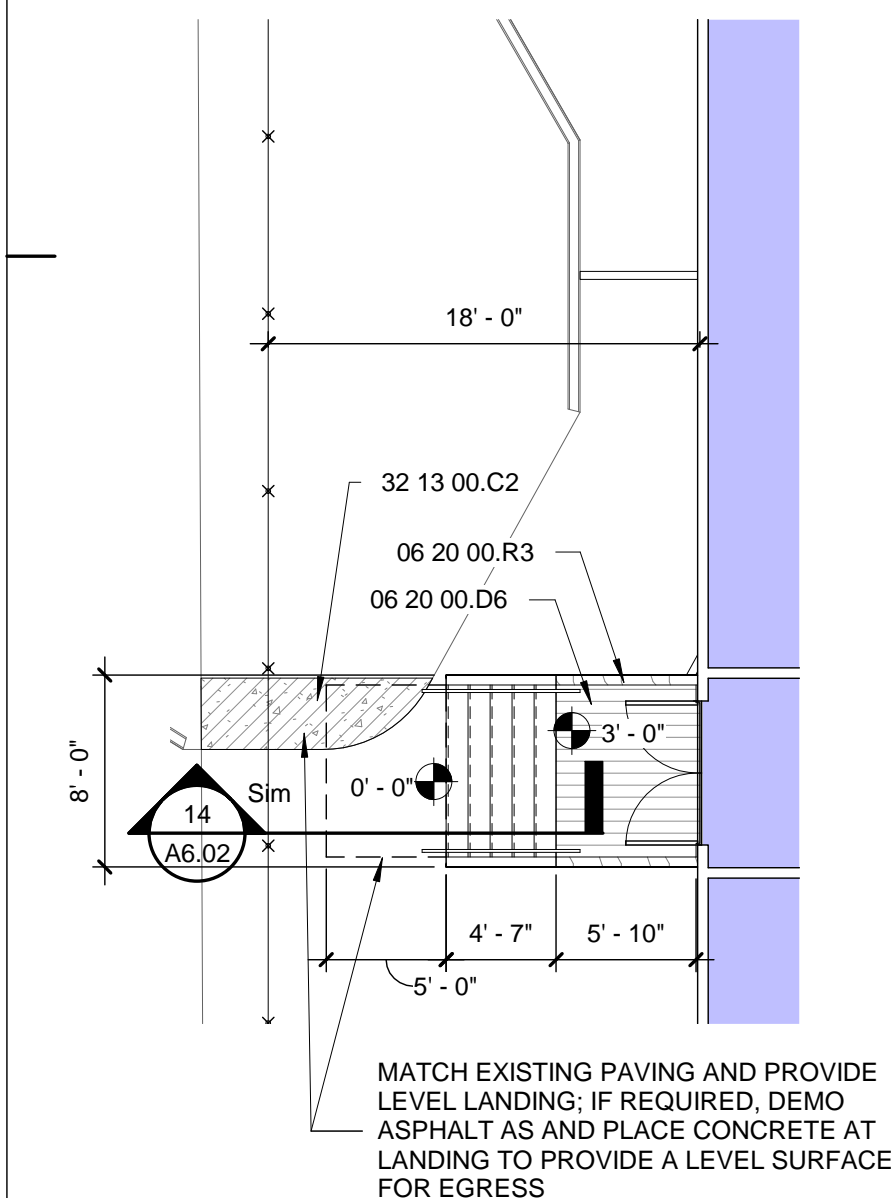
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Date	10-22-2020
Drawn by	Author
Checked by	Checker

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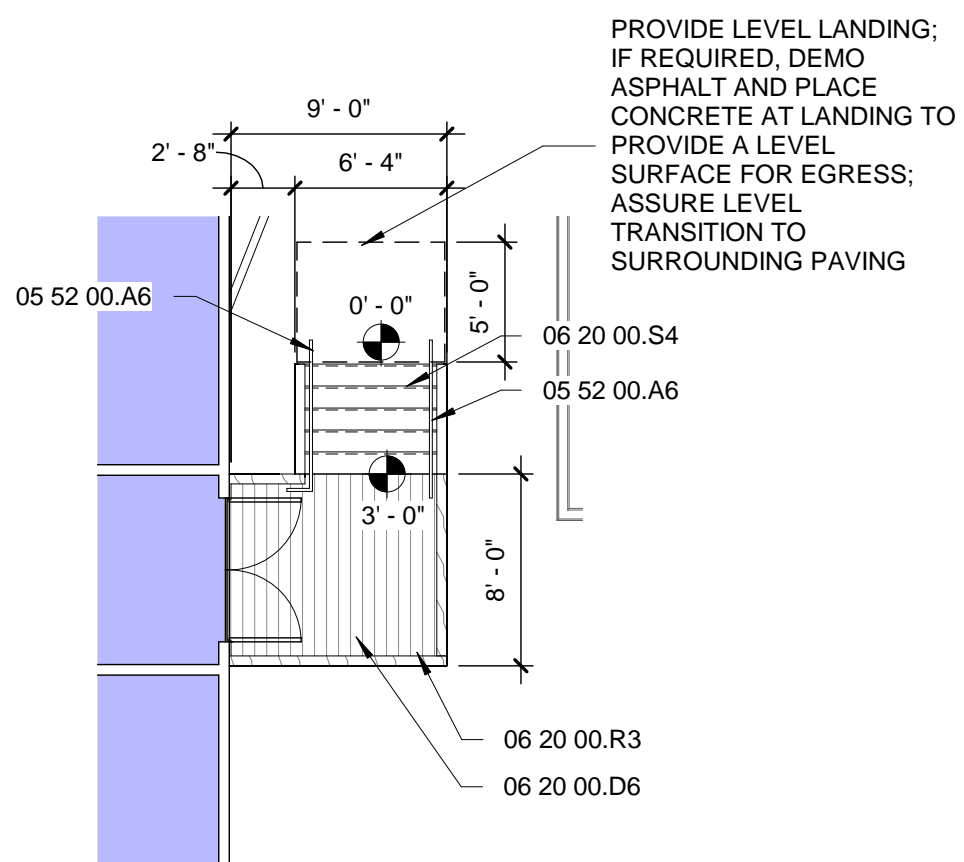
Scale As indicated



11 Enlarged Plan
1/8" = 1'-0"



16 Enlarged Plan at Stair
1/8" = 1'-0"



17 Enlarged Plan at Stair
1/8" = 1'-0"

Elementary
Pod
103

PROVIDE LEVEL LANDING; IF REQUIRED, DEMO ASPHALT AND PLACE CONCRETE AT LANDING TO PROVIDE A LEVEL SURFACE FOR EGRESS; ASSURE LEVEL TRANSITION TO SURROUNDING PAVING

PROVIDE LEVEL LANDING; IF REQUIRED, DEMO ASPHALT AND PLACE CONCRETE AT LANDING TO PROVIDE A LEVEL SURFACE FOR EGRESS; ASSURE LEVEL TRANSITION TO SURROUNDING PAVING

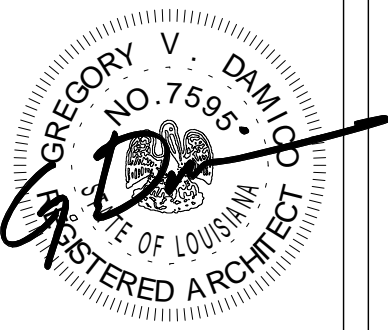
KEYNOTE EXPLANATION

07 40 00.G9	GALVALUME R-PANEL ROOF; AT LAPPED JOINTS PROVIDE COMPATIBLE ROOF SEALANT BETWEEN PANELS
07 62 00.H3	6" X 6" BOX GUTTER

KEY PLAN

Construction Documents

No.	Description	Date



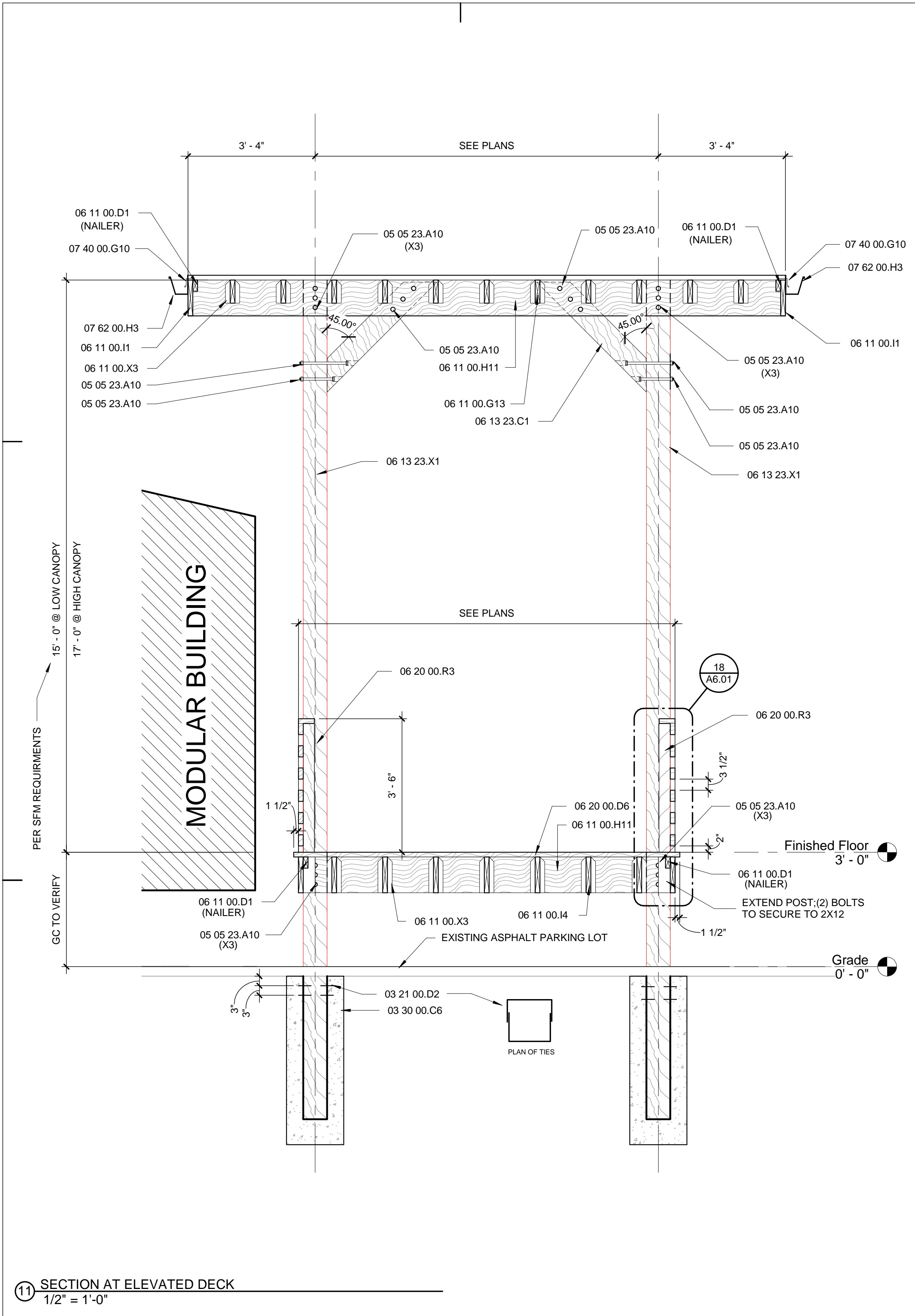
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COVERED WALK
ROOF PLAN

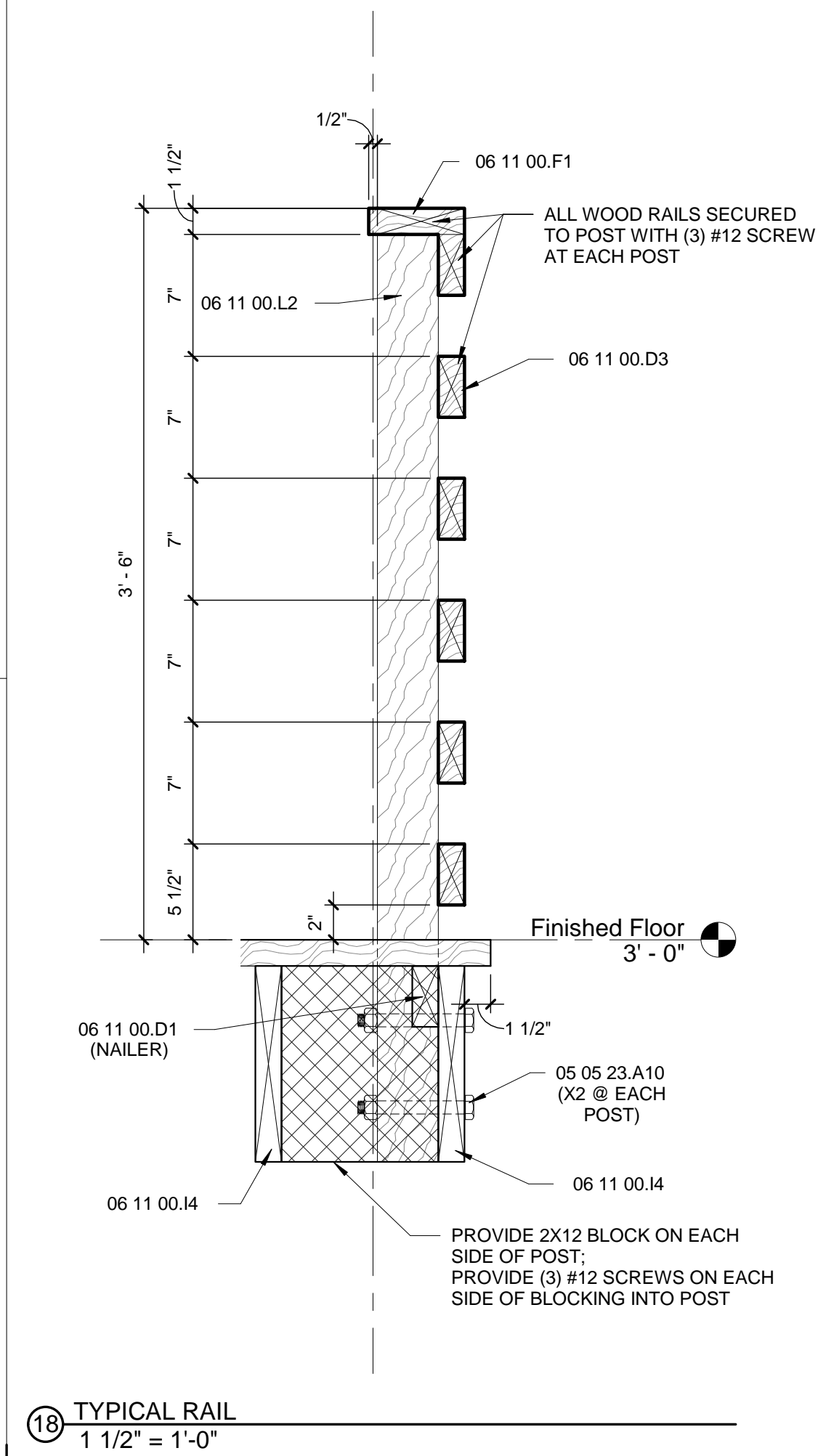
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Date	10-22-2020
Drawn by	Author
Checked by	Checker

A1.03

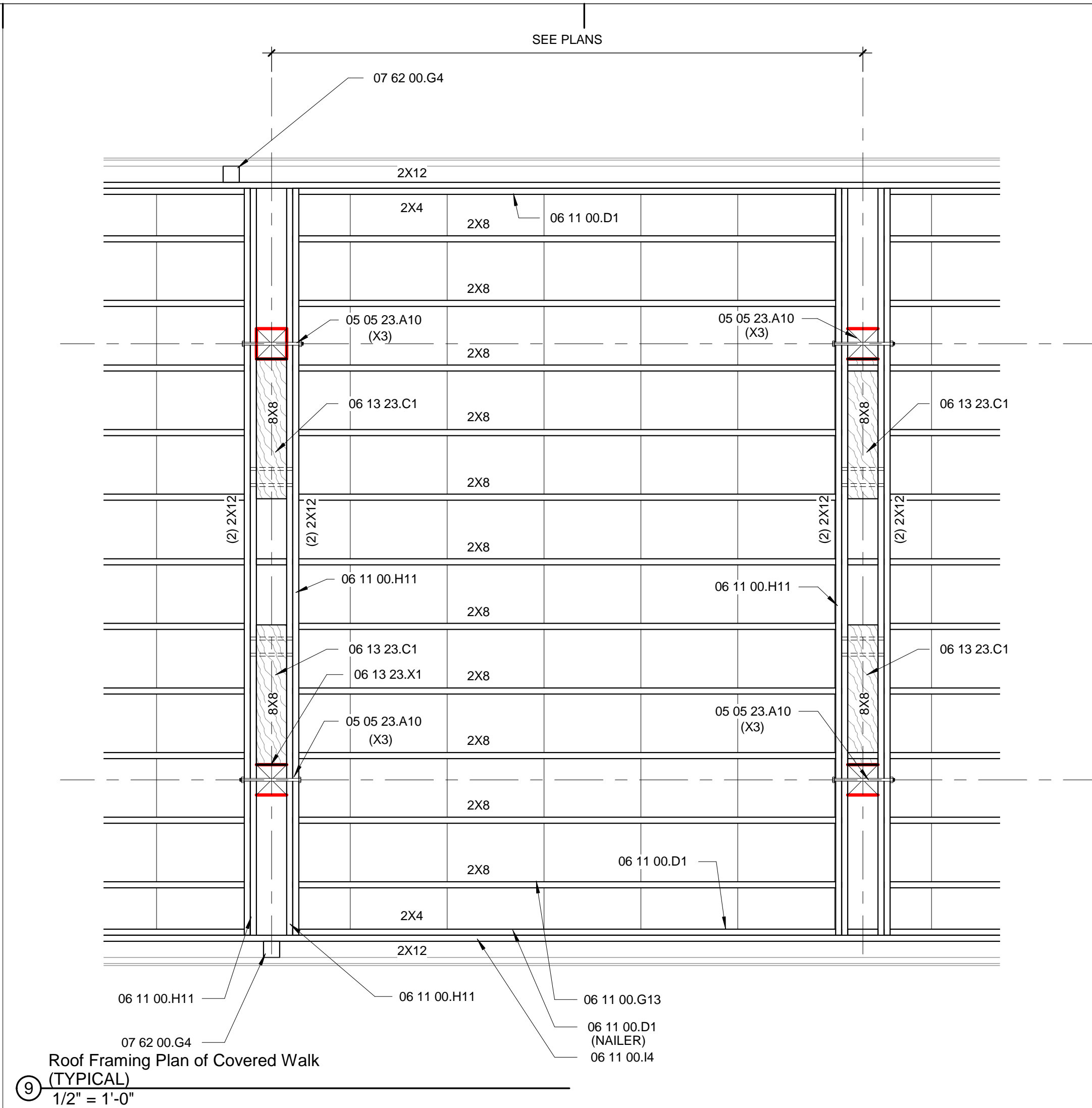
Scale	1/16" = 1'-0"
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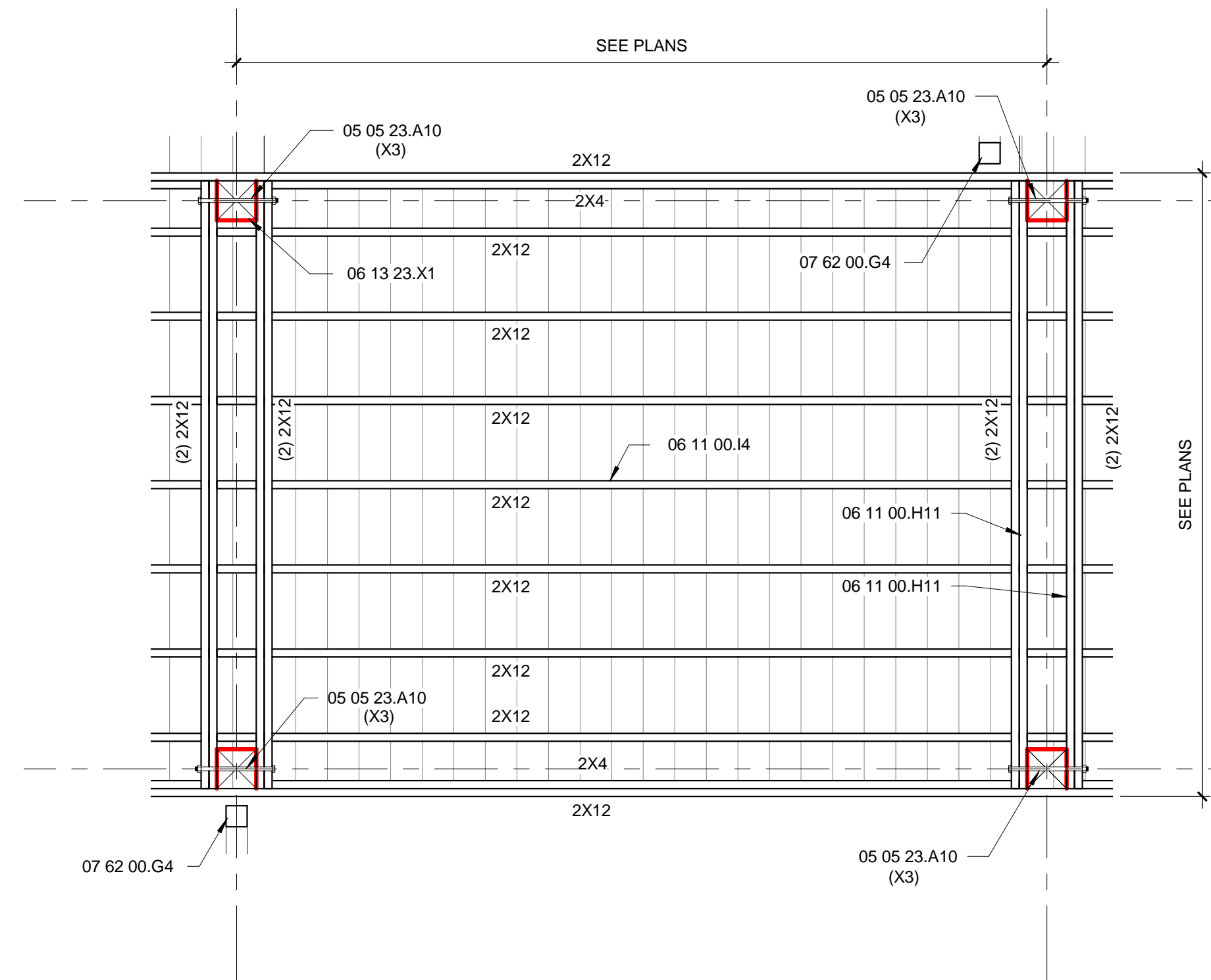
11 SECTION AT ELEVATED DECK
1/2" = 1'-0"



18 TYPICAL RAIL
1 1/2" = 1'-0"



9 Roof Framing Plan of Covered Walk
(TYPICAL)
1/2" = 1'-0"



19 Deck Framing Plan of Elevated Deck
(TYPICAL)
1/2" = 1'-0"



KEYNOTE EXPLANATION

03 21 00.D2	#3 TIES
03 30 00.C6	18" DIAMETER POST FOOTINGS EXTENDING A MINIMUM OF 5'-0" BELOW GRADE
05 05 23.A10	3/4" A307 BOLTS; 3" APART
06 11 00.D1	2X4
06 11 00.D3	2X4 FRAMING
06 11 00.F1	2X8
06 11 00.G13	2X8 RAFTERS @ 16" O.C.
06 11 00.H11	(2) 2X12; FASTEN DOUBLE 2X TOGETHER WITH TWO ROWS (1 TOP, 1 BOTTOM) OF #12 X 3" LONG WOOD SCREW AT 12" O.C.
06 11 00.I4	2X12
06 11 00.L2	2X12 JOISTS @ 16" O.C.
06 11 00.L3	4X4 POST
06 11 00.X3	JOIST HANGER AT EACH JOIST
06 13 23.C1	8X8 HEAVY TIMBER
06 13 23.X1	TREATED 8X8 POST; EXTENDING APPROX. 4' BELOW 'GRADE'; TOP OF POSTS TO BE SET AT SAME ELEV., REFERENCE SECTION OF ELEVATED DECK
06 20 00.D6	2X6 TREATED WOOD DECK
06 20 00.R3	TREATED WOOD RAILING SYSTEM
07 40 00.G10	GALVALUME DRIP EDGE
07 62 00.G4	3'X3' DOWNSPOUT
07 62 00.H3	6" X 6" BOX GUTTER

GENERAL NOTES:

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KEY PLAN

Construction Documents

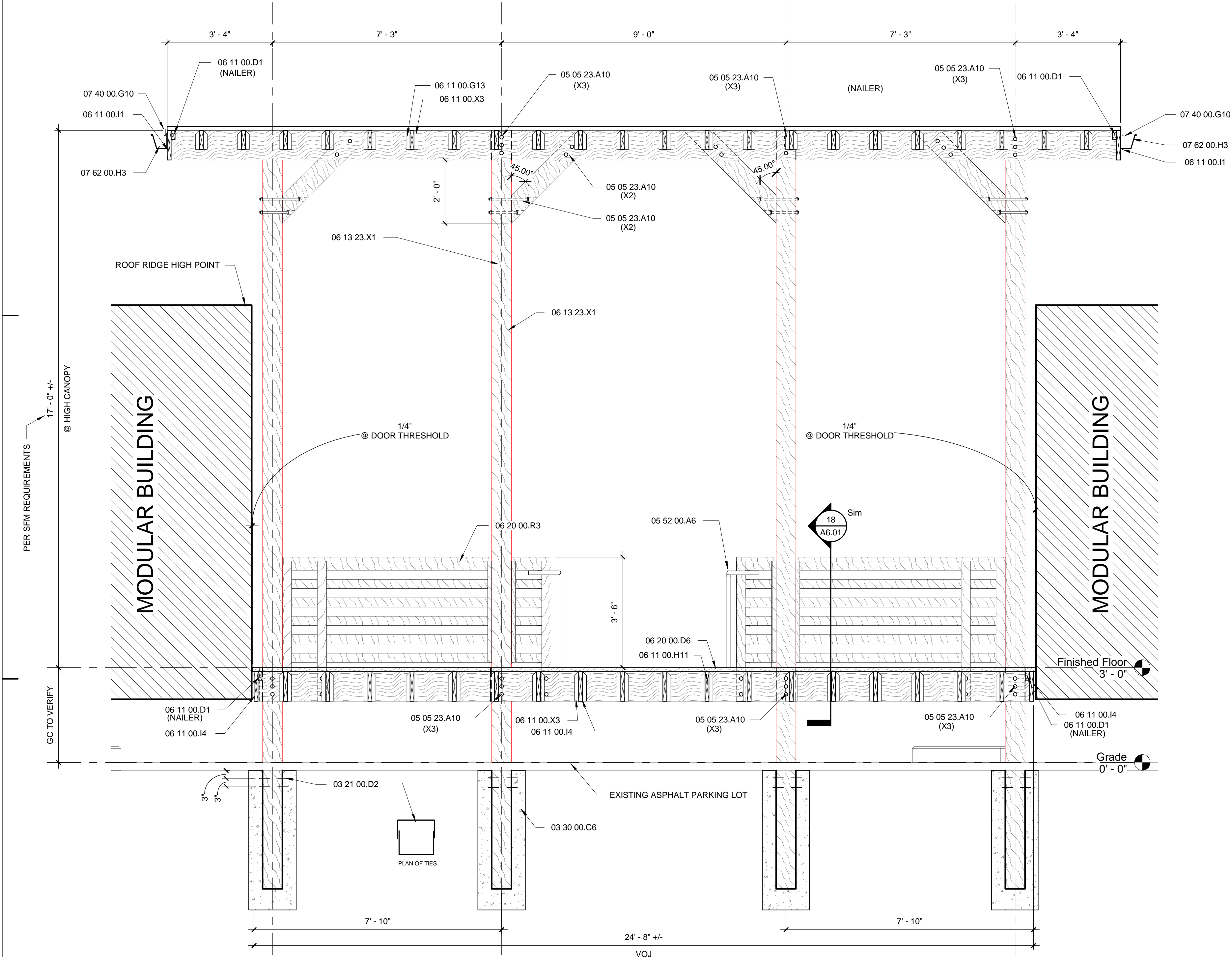
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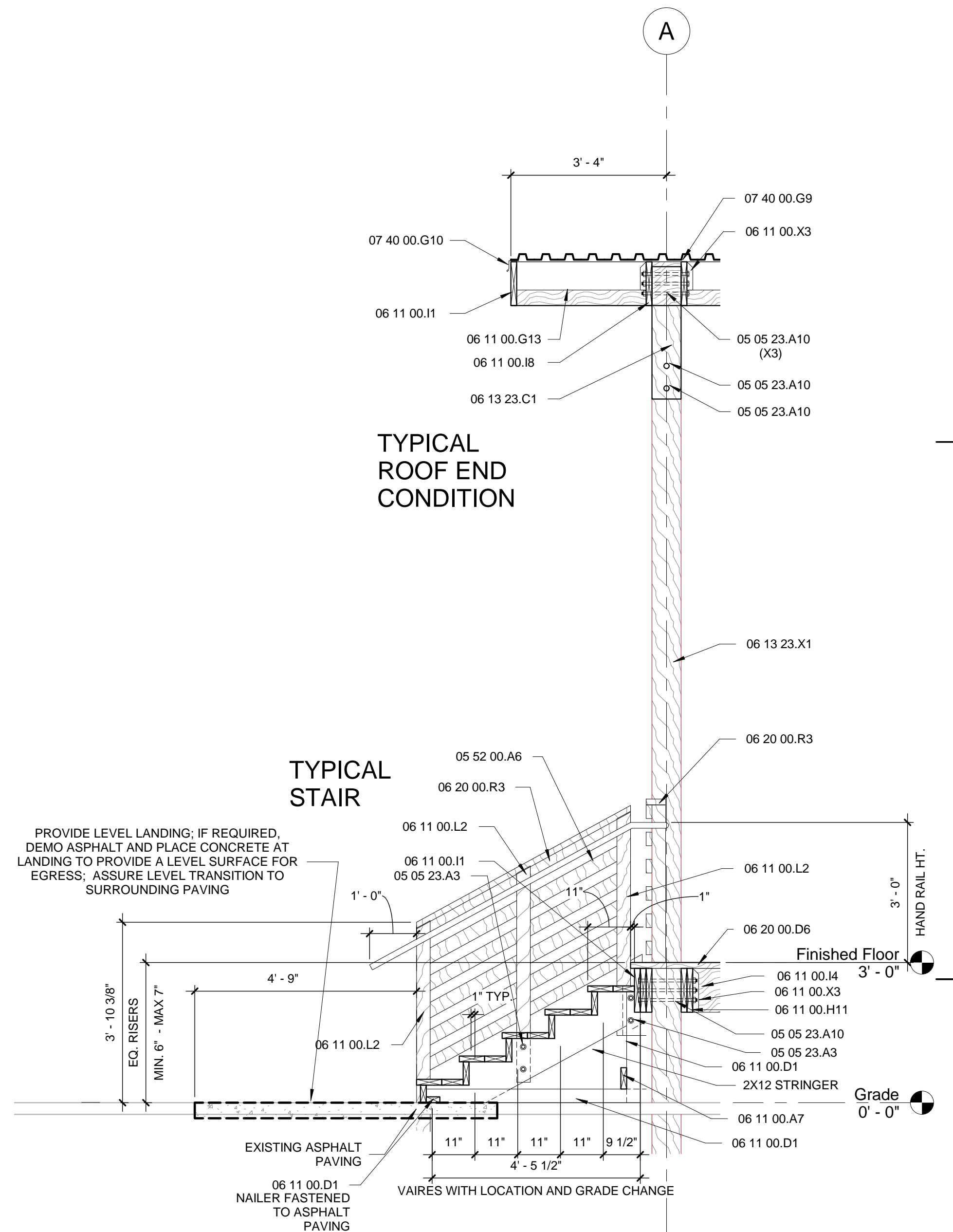
St. Margaret of Scotland
Catholic - Temp Facilities

WALL SECTIONS

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ACSW Project number	20010
Date	10-22-2020
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A6.01	
Scale	As indicated



11 ELEVATED DECK #2
1/2" = 1'-0"



14 TYPICAL STAIR
1/2" = 1'-0"

KEYNOTE EXPLANATION	
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03 30 00.C6	18" DIAMETER POST FOOTINGS EXTENDING A MINIMUM OF 5'-0" BELOW GRADE
05 05 23.A3	3/4" A307 BOLT
05 05 23.A10	3/4" A307 BOLTS; 3" APART
05 52 00.A6	1-1/2" OUTSIDE DIAMETER CONTINUOUS HANDRAIL
06 11 00.A7	WOOD SHIM OR BLOCKING, SIZE AS REQUIRED, CONTINUOUS WHERE INDICATED, TREATED
06 11 00.D1	2X4
06 11 00.G13	2X8 RAFTERS @ 16" O.C.
06 11 00.H11	(2) 2X12; FASTEN DOUBLE 2X TOGETHER WITH TWO ROWS (1 TOP, 1 BOTTOM) OF #12 X 3' LONG WOOD SCREW AT 12" O.C.
06 11 00.I1	2X12
06 11 00.I4	2X12 JOISTS @ 16" O.C.
06 11 00.I8	(2) 2X12 STUDS; SECURE 2X12 TO EACH SIDE OF COLUMN
06 11 00.L2	4X4 POST
06 11 00.X3	JOIST HANGER AT EACH JOIST
06 13 23.C1	8X8 HEAVY TIMBER
06 13 23.X1	TREATED 8X8 POST; EXTENDING APPROX. 4' BELOW 'GRADE'. TOP OF POSTS TO BE SET AT SAME ELEV. REFERENCE SECTION OF ELEVATED DECK
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5. GC SHALL BE RESPONSIBLE FOR LEVEL LANDINGS AT ALL STAIRS AND RAMPS AND SHALL ASSURE ALL THRESHOLDS AT DOORS MEET ADA STANDARDS.
6. ALL WOOD FRAMING (WHETHER INDICATED OR NOT) SHALL BE TREATED
7. CONTRACTOR TO COORDINATE ALL SPECIAL SYSTEM AN ELECTRICAL CONDUITS PRIOR TO INSTALLING DECKING. REFERENCE SPECIAL SYSTEM DRAWINGS FOR MORE INFORMATION.
8. ELEVATED DECKS, RAMPS, STAIRS, AND RAILINGS SHALL, INCLUDING FINAL DETAILING AND CONSTRUCTION, SHALL BE COORDINATED WITH THE TEMPORARY BUILDING PACKAGE.
9. ALL RAMPS TO BE 1:12 SLOPE; ALL LANDINGS MAX 1:50 SLOPE.
10. CONTRACTOR TO VERIFY ACCEPTABILITY OF REQUIRED BUILDING PENETRATIONS PRIOR TO PROCEEDING WITH WORK
11. REFERENCE ASSOCIATED DRAWINGS FROM MODULAR BUILDING SUPPLIER FOR BUILDING PLANS ASSOCIATED WITH THE TYPES OF STRUCTURES PROVIDED
12. AT CONTRACTORS OPTION, ENGINEERED STAIRS, RAMPS, CANOPIES AND/OR ELEVATED WALKWAYS MAY BE PROVIDED BY GC. ALL PROVIDED ITEMS MUST MEET CURRENT STATE AND LOCAL CODE REQUIREMENTS.
13. ALL DECKING TO BE SNUG FIT WITH (2) #12'S AT EVERY SUPPORT.
14. DECK PLANKS TO BE FULL LENGTH

KEY PLAN

Construction Documents

No.	Description	Date



St. Margaret of Scotland
Catholic - Temp Facilities

WALL SECTIONS

Copyright 2020 ACSW	
ACSW Project number	20010
Date	10-22-2020
Drawn by	Author
Checked by	Checker
A6.02	
Scale	As indicated

KEYNOTE EXPLANATION

03 21 00.D2	#3 TIES
05 05 23.A10	3/4" A307 BOLTS, 3" APPART
06 11 00.D1	2X4
06 11 00.G13	2X8 RAFTERS @ 16" O.C.
06 11 00.H11	(2) 2X12, FASTEN DOUBLE 2X TOGETHER WITH TWO ROWS (1 TOP, 1 BOTTOM) OF #12 X 3' LONG WOOD SCREW AT 12" O.C.
06 11 00.I1	2X12
06 11 00.X3	JOIST HANGER AT EACH JOIST
06 13 23.X1	TREATED 8X8 POST, EXTENDING APPROX. 4' BELOW 'GRADE'. TOP OF POSTS TO BE SET AT SAME ELEV., REFERENCE SECTION OF ELEVATED DECK
07 40 00.G9	GALVALUME R-PANEL ROOF; AT LAPPED JOINTS PROVIDE COMPATIBLE ROOF SEALANT BETWEEN PANELS
07 40 00.G10	GALVALUME DRIP EDGE
07 62 00.H3	6" X 6" BOX GUTTER

GENERAL NOTES:

- NO SURVEY WAS PROVIDED. GC TO VERIFY LIMITS OF PROPERTY, REQUIRED SETBACKS, EASEMENTS, UTILITY LINES, AND ANY OTHER CITY ORDNNANCES REQUIRED.
- ALL FASTENERS TO BE APPROVED FOR USEAGE WITH TREATED WOOD.
- ALL WOOD TO BE #2 TREATED SOUTHERN YELLOW PINE.
- FINISH FLOOR IS SET TO 3'-0" A.F.F. IF IN-FIELD CONDITIONS VARY, IT WILL BE UP TO THE GC TO MODIFY ALL RAMPS AND STAIRS AS REQUIRED TO MEET CODE.
- GC SHALL BE RESPONSIBLE FOR LEVEL LANDINGS AT ALL STAIRS AND RAMPS AND SHALL ASSURE ALL THRESHOLDS AT DOORS MEET ADA STANDARDS.
- ALL WOOD FRAMING (WHETHER INDICATED OR NOT) SHALL BE TREATED
- CONTRACTOR TO COORDINATE ALL SPECIAL SYSTEM AN ELECTRICAL CONDUITS PRIOR TO INSTALLING DECKING. REFERENCE SPECIAL SYSTEM DRAWINGS FOR MORE INFORMATION.
- ELEVATED DECKS, RAMPS, STAIRS, AND RAILINGS SHALL, INCLUDING FINAL DETAILING AND CONSTRUCTION, SHALL BE COORDINATED WITH THE TEMPORARY BUILDING PACKAGE.
- ALL RAMPS TO BE 1:12 SLOPE; ALL LANDINGS MAX 1:50 SLOPE.
- CONTRACTOR TO VERIFY ACCEPTABILITY OF REQUIRED BUILDING PENETRATIONS PRIOR TO PROCEEDING WITH WORK
- REFERENCE ASSOCIATED DRAWINGS FROM MODULAR BUILDING SUPPLIER FOR BUILDING PLANS ASSOCIATED WITH THE TYPES OF STRUCTURES PROVIDED.
- AT CONTRACTORS OPTION, ENGINEERED STAIRS, RAMPS, CANOPIES AND/OR ELEVATED WALKWAYS MAY BE PROVIDED BY GC. ALL PROVIDED ITEMS MUST MEET CURRENT STATE AND LOCAL CODE REQUIREMENTS.
- ALL DECKING TO BE SNUG FIT WITH (2) #12'S AT EVERY SUPPORT.
- DECK PLANKS TO BE FULL LENGTH

KEY PLAN

Construction Documents

No.	Description	Date



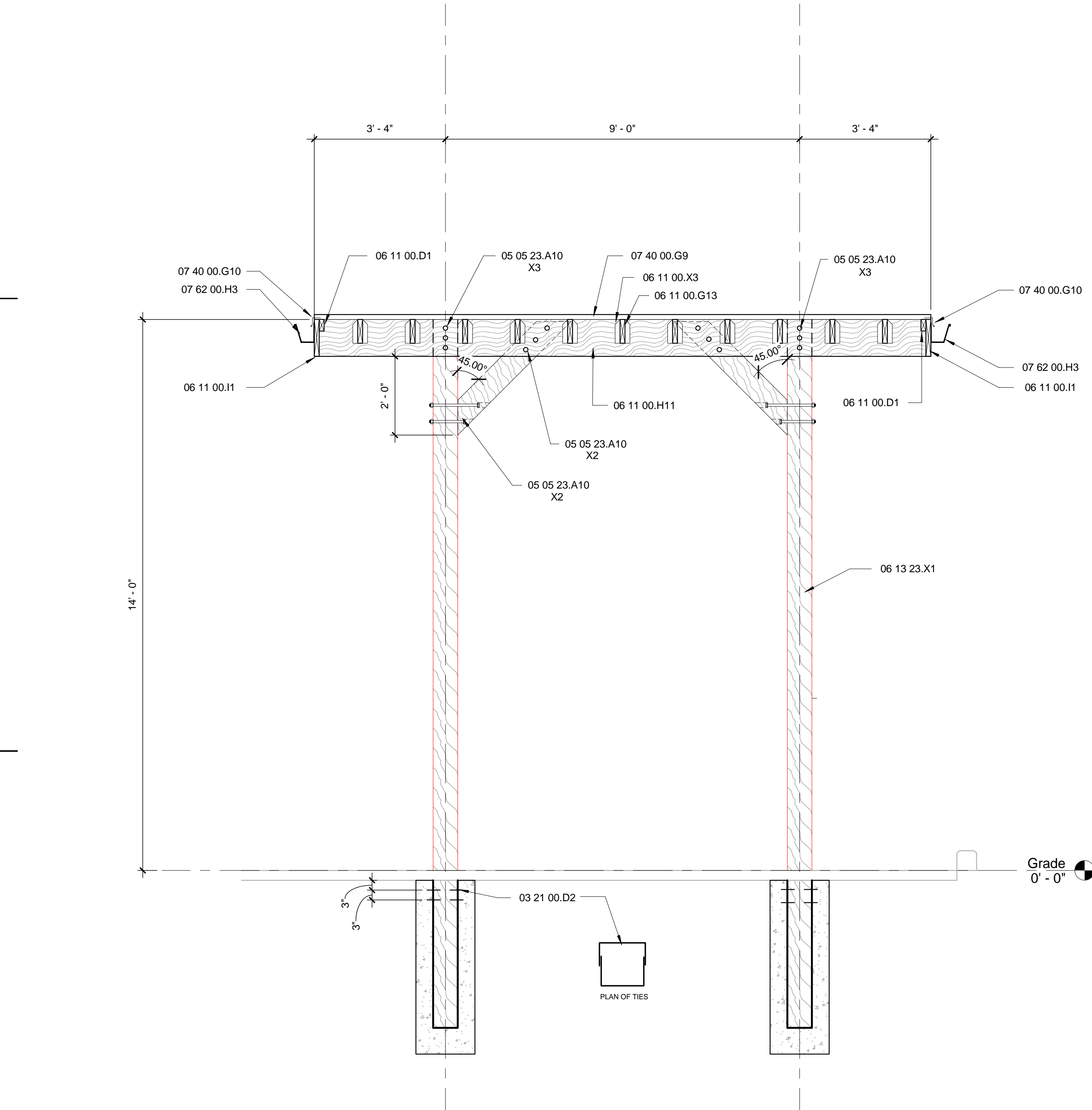
St. Margaret of Scotland
Catholic - Temp Facilities

WALL SECTIONS

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ACSW Project number	20010
Date	10-22-2020
Drawn by	Author
Checked by	Checker

A6.03

Scale	As indicated
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12 Drop Off Canopy
1/2" = 1'-0"

NOTES:
1. SITE PLAN NOT AVAILABLE AT THIS TIME. BUILDING DESIGNED TO HAVE FIRE SEPARATION DISTANCE GREATER THAN 10 FT. IN ACCORDANCE WITH TABLE 602 OF THE IBC.
2. PORCHES, STEPS, AND RAMPS TO BE SUPPLIED AND INSTALLED BY OTHERS IN ACCORDANCE WITH THE IBC.
3. PORTABLE FIRE EXTINGUISHERS TO BE SUPPLIED AND INSTALLED ON SITE BY OWNER IN ACCORDANCE WITH SECTION 906 OF THE IBC.
4. ANY REQUIRED FIRE/SMOKE DETECTION AND/OR SUPPESSION TO BE INSTALLED BY OTHERS ON SITE IN ACCORDANCE WITH THE IBC AND THE IFC.
5. MOBILE MODULAR MANAGEMENT TO SITE CONSTRUCT DRAFT STOP IN ACCORDANCE WITH THE IBC WHERE REQUIRED.

MOBILE MODULAR MANAGEMENT MOD POD 'A & B' VARIABLE UNIT COMPLEX

THE FOLLOWING UNITS ARE TO BE CONSTRUCTED INDIVIDUALLY BY THE FACTORY:
"A&B" UNIT-OUTSIDE UNIT W/TWO CLASSROOMS "C&D" UNIT-MIDDLE UNIT W/TWO CLASSROOMS
"E" UNIT-MIDDLE UNIT W/RESTROOMS "F&G" UNIT-OUTSIDE UNIT W/TWO CLASSROOMS

NOTE: FOR A TYPE VB GROUP B OR E BUILDING THE MAXIMUM SQUARE FOOTAGE ANY COMBINATION OF UNITS SHALL BE 9,000 SQ. FT. ADDITIONAL SITE INSTALLED EGRESS ELEMENTS MAY BE NECESSARY DEPENDING UPON THE LAYOUT AND CONFIGURATION. AREA INCREASE CALCULATION PROVIDED FOR CONFIGURATIONS EXCEEDING 9,000 SQ. FT. ON CONFIGURATION SHEET.

ADDITIONAL NOTE FOR CONFIGURATIONS: MOD POD UNITS ARE DESIGNED TO BE MANUFACTURED INDIVIDUALLY. MODULES ARE DESIGNED TO ALLOW SEVERAL DIFFERENT COMPLEX CONFIGURATIONS IN THE FIELD WITH A MINIMUM OF 7 UNITS (6 CLASSROOMS) AND A MAXIMUM OF 13 UNITS (12 CLASSROOMS). NO MORE THAN 8 MODULES BETWEEN SIDEWALL SHEARWALLS OR FULL HEIGHT BEARING WALL SHEARWALLS. CONFIGURATIONS OF ANY COMPLEX SHALL NOT EXCEED SQUARE FOOTAGE LIMITATIONS SET FORTH IN "TABLE 503" (use group B or E, type VB) OF THE 2015 Ed. IBC AND NFPA 101-2015. EGRESS REQUIREMENTS MUST BE MET IN ALL CONFIGURATIONS IN ACCORDANCE WITH CHAPTER 10 OF THE 2015 Ed. OF THE IBC AND NFPA 101-2015. THE MINIMUM REQUIRED PLUMBING FIXTURES MUST BE OBTAINABLE IN ALL CONFIGURATIONS ACCORDING TO THE 2015 Ed. IPC W/ AMENDMENTS.

General Construction Specifications (MODULES A & B)

Frame Construction:

Frame Type: Outrigger
Quantity: (2) EA
Size: 126812
Type: Outrigger and crossmember @ 48 in. O.C.
Main beams to be 99 1/2 in. O.C.
Beam Size: 12 1/2 in. Jr. I-beam
Axles: Five 6000# rated with (3) brake (2) tag
Hitch: Detachable underslung
Tires: 8x14.5 14 ply rated

Additional Frame Items Included in Quoted Price:

Item 1: 2 EA. tail lights.

Floor Construction:

Floor Joist: 2x8 #2 SYP equal or better
Framing: Transverse
Joist: 16 in. O.C.
Floor: Single layer 3/4 in. Advantech decking. Attach using liquid nails adhesive and 2 3/8" x .113" ring shank nails. (Ship loose 5/8 in. filler and Armstrong S-194) fast setting patch. Hold back decking (2 1/4) inches at each side of mateline.
Insulation: R-30 unfaced fiberglass batt (2-layers of R-15)
Bottom: Mobiflex or equal

Floor Covering Type 1

1/8in. commercial grade tile. Tile to be checkerboard and 50% offset at Corridor and Classrooms. Hold back tile (11 1/2" @ Modules A & B matelines) (9 1/2" @ Module A exterior sidewalk and module B load bearing wall). Color to be: (S1858 SANDRIFT WHITE)

Additional Floor Items Included in Quoted Price:

Item 1: All outer perimeter rails to be treated lumber and Fortifiber moist stop PF at all perimeter rails 12 in. up from bottom of rails.

Exterior Wall Construction:

Framing: 2x6 #2 SYP equal or better @ 16 in. O.C. w/double 2x6 #2 SYP equal or better top plate and single 2x6 #2 SYP or better bottom plate. (3-2x6 header with (2) 1/2 in. shim at all exterior openings unless otherwise noted)
Wall Sheathing: 7/16 in. OSB on entire perimeter
Insulation: R-21 Kraft back fiberglass batt.
Siding Type: 7/16 in. LP Stucco panel vertical siding w/house wrap underlayment
Siding body color: (LIGHT STONE - KWAL SEMI GLOSS)
6 in. corner trim color: (CAMEL - KWAL SEMI GLOSS)
4 in. door & window trim color: (CAMEL - KWAL SEMI GLOSS)
8 in. bottom trim color: (LIGHT STONE - KWAL SEMI GLOSS)
4 in. intermediate horizontal trim color: (LIGHT STONE - KWAL SEMI GLOSS)
8 in top horizontal trim color: (CAMEL - KWAL SEMI GLOSS)
Covering height: 9 ft.
Wall Covering 1: 5/8 in. Type-X vinyl covered gypsum with wrapped battens with 5/8 in. unfinished Type-X gypsum above ceiling. Color to be: (HAMPTON GRAY)
Wall Covering 2: Standard White FRP panels pre-laminated over 5/8 in. Type-X gypsum board @ Corridor. (Use V-45 trim and V-121 inside corner trim)
Sidewall Height: See cross section for heights

Additional Exterior Wall Items Included in Quoted Price:

Item 1: Siding and trim installed on full height load bearing wall on module B.
Item 2: Kwal paint custom colors.
Item 3: No holdback on exterior top trim - holdback splice and bottom trim 3 3/4 in. from each side of mateline.
Item 4: Ship loose 8 in. LP trim for exterior matelines.

Interior Wall Construction:

Framing: 2x4 #2 SYP equal or better @ 16 in. o.c. w/double 2x4 #2 SYP equal or better top plate and single 2x4 #2 SYP or better bottom plate
Overall height: 8 ft.

Insulation: R-11 unfaced battens for sound attenuation @ all walls
Wall Covering 1: 5/8 in. Type-X vinyl covered gypsum with wrapped battens with 5/8 in. unfinished Type-X gypsum above ceiling. Color to be: (HAMPTON GRAY)
Covering height: 8 ft.
Wall Covering 2: Standard White FRP panels pre-laminated over 5/8 in. gypsum board @ Corridor. (Use V-45 trim)
Covering height: 8 ft.
Base Trim: 4 in. vinyl cove. Color to be: (CB-67 DOVE GRAY) (holdback base cove)
Trim Package: Interior trim color to be: (HAMPTON GRAY)
Inside corners: 4 in. tri-mold VC batten
Outside corners: 4 in. tri-mold VC batten
Window trim: color to be: (4993-1695 GRAY)
Hold Backs: Hold back of gypsum and FRP at matelines. (see holdback details on sheet 2)

Additional Interior Wall Items Included in Quoted Price:

Item 1: Corridor walls are extended to the bottom of rafters and are one hour fire rated.
Item 2: 68 LF of mateline wall to be 2x6 with R-21 kraft back insulation and 7/16 in. OSB sheathing.

Roof Construction:

Design Load: 20 p.s.f live load
Roof Type: Transverse ridge
Rafter size: 2x8 #2 SYP equal or better
Spacing: 16 in. O.C.
Mate Beam: Multi-layer laminated plywood
Height: 24 in. to 32 1/2 in. to 24 in.
Length: 68 ft.
No. of Layers: 3
No. of Beams: 2

Ceiling: 1870 SF 2 ft. x 4 ft. @ 7"-10" (Armstrong Prelude XL White T-Grid with Armstrong #2910 tiles) installed at factory, held back at matelines. Completion of ceiling installation on-site by MMMC; not in Indicom's scope.
Insulation: R-38HD unfaced fiberglass batt with support netting (2-layers of R-15 at fire rated Corridor)
Sheathing: 7/16 in. Mulehide Class C FR Deck
Roofing: 45 mil WHITE single ply EPDM (material warranty certificate)

Additional Roof Items Included in Quoted Price:

Item 1: 2x4 horizontal fire rated ceiling at Corridor with 5/8 in. Type-X gypsum board installed on both sides of horizontal ceiling.
Item 2: Triple 2x8 header with 1/2 in. CDX plywood spacer at 8'-1" at mateline Corridor opening.
Item 3: Corridor matebeams will be wrapped with 1-layer of 5/8 in. Type-X gypsum and taped only below horizontal fire rated ceiling. Completion of the bottom of matebeams to be on-site by MMMC.
Item 4: Draft stop if required on-site by MMMC.
Item 5: 11'-5" long aluminum 5 in. gutters with end caps on each end of module stopped 2 in. from sidewall and matelines color to be: (CAMEL - KWAL SEMI GLOSS). (1) aluminum downspout per end color to be: (LIGHT STONE - KWAL SEMI GLOSS).
Item 6: Roofing to fold over matelines and exterior side wall side approx. 5 in. with tapered 2x4. Ship loose 12 in. mateline tape for matelines.

Exterior/Interior Doors:

(SEE DOOR SCHEDULE)

Windows:

(SEE WINDOW SCHEDULE)

Electrical Schedule			
Type	Qty	Note	Description
ELEC SERVICE	1		120/240V. 60 HZ. SINGLE PHASE
ELEC PANEL	2	125 AMP	1 PH W/125 MAIN BREAKER. EXTERIOR MOUNT NEMA 3R (CUTLER HAMMER) (20 IN. TO THE BOTTOM OF PANEL)
ELEC RACEWAY	1		E.M.T. THIN WALL CONDUIT WITH SEPARATE GREEN GROUND
LIGHTS	1		COMPACT FLUORESCENT EXTERIOR WITH PHOTOCELL
LIGHTS	12	(4000 LUMENS)	48 IN. DIFFUSED LED RECESSED LAY-IN (LITHONIA 26TL4 40L LP840)
LIGHTS	2	2-LAMPS	48 IN. DIFFUSED FLUORESCENT RECESSED LAY-IN WITH ELECTRONIC BALLAST & T-8 LAMPS
EXIT SIGN	1		115V WITH BATTERY BACKUP
EMERG. LIGHT	1		EXTERIOR REMOTE HEAD
EMERG. LIGHT	1	WITH REMOTE	INTERIOR DOUBLE HEAD BATTERY PACK
RECEPTACLE	1		20A/125V GFCI PROTECTED WITH WEATHERPROOF IN-USE COVER
RECEPTACLE	17		20A/125V DUPLEX
RECEPTACLE	2		20A/125V CEILING RECEPTACLE (WHITE)
PHONE/COMM.	8	3/4 IN.	4X4 J-BOX WITH SINGLE GANG MUD RING STUBBED ABOVE CEILING AND DOWN BELOW FLOOR WITH EMT CONDUIT
J-BOX	1		EMPTY 4X4 J-BOX AND A SINGLE GANG MUD RING STUBBED UP ABOVE T-GRID AT EXTERIOR FOR ON-SITE CARD READER
J-BOX	1		POWERED 4X4 J-BOX ABOVE T-GRID FOR ON-SITE CARD READER
J-BOX	4		J-BOX ABOVE T-GRID FOR FIELD CROSSOVER CONNECTIONS (PLUG-IN CONNECTORS)
J-BOX	3		4X4 EMPTY J-BOX WITH 2 GANG MUD RING STUBBED UP FOR HORN-STROBE BY OTHERS
J-BOX	1		2X4 EMPTY J-BOX STUBBED UP FOR FULL STATION BY OTHERS
J-BOX	6		POWERED J-BOX ABOVE T-GRID FOR FUTURE USE
J-BOX	2		POWERED J-BOX ABOVE T-GRID FOR FIRE/SMOKE DAMPERS
OCCUPANCY SENSOR	2		CEILING MOUNTED OCCUPANCY SENSOR (WATTSTOPPER CI-305 W/ 8250 POWER PAK)
DEVICE COLOR	1		COLOR TO BE: (WHITE)

Additional Electrical Items Included in Quoted Price:

Item 1: All ceiling lights are supported at all 4 corners with wires.
Item 2: (2) spare 3/4 in. conduits from each panel to above ceiling terminating in J-box.

PLUMBING:

NONE

HVAC Schedule			
Type	Qty	Note	Description
HVAC UNIT TYPE	2	3 TON COOLING WITH 10-KW ELECTRIC	END MOUNT UNIT WITH ERV AND DEHUMIDIFICATION (MODEL BARD - W36A10R0P) (EXTEND CONDENSATE TO BELOW BOTTOM TRIM) COLOR TO BE: (BEIGE)
T-STAT	2		PROGRAMMABLE T-STAT(S) (BARD COMPLETESTAT -CS98-THO) WITH LOCKING COVERS (BEXO - BT0A2)
HEAT DUCT	1	11x9, 18x9, 22x9 AND 30x9	FOIL FACED FIBERGLASS, 1-1/2 IN. THICK
SUPPLY BOOT	1	SB-12	FIRST 4 FT. TO BE METAL WITH INSULATION WRAP
DIFFUSERS	7		24 IN. x 24 IN. 4-WAY LAY-IN WITH ADJUSTABLE DAMPERS
R/A GRILLS	3		24 IN. x 24 IN. PERFORATED LAY-IN
DUCT SYSTEM	1		DUCTED SUPPLY WITH (1) FULLY DUCTED RETURN AND (1) WALL JUMP RETURN AIR TO PLENUM WALL
DAMPERS	2	FIRE/SMOKE	DAMPERS IN THE FIRE RATED AREAS PER PLAN

Additional HVAC Items Included in Quoted Price:

Item 1: 2x2 galvanized or alum. flashing above each HVAC unit (puddy tape on backside edge and edge touching A/C).
Item 2: (2) 8 in. round 90° elbow.

Cabinet:

(2) 4 ft. X 3 ft. Tack Boards
(2) 8 ft. X 4 ft. Marker Boards

Skirting:

NONE

State Labels:

Third party plan review and state IBC certification to be included

Additional Label Items Included in Quoted Price:

Item 1: Texas & Louisiana label / 20 lb roof load / 2009 IBC - 130 MPH (ASD) EXP. C Oklahoma and Arkansas engineered seated drawings.

Clarifications/Notes:

Item 1: Fire/smoke dampers are to be connected to owner provided duct detector on-site by MMMC.
Item 2: All required crossovers to be completed on-site by MMMC.
Item 3: All mate-line connections to be completed on-site by MMMC.
Item 4: All shipping walls installed with 1/4 in. x 3 in. lag screws (no nails allowed).
Item 5: White poly close-up.

DATA PLATE

MANUFACTURE & ADDRESS
(FOR WARRANTY INFORMATION)
INDICOM BUILDING, INC.
721 N. Burleson Blvd.
BURLESON, TX. 76028
IHM - 47
LAIB-M00002

DRAT AGENCY:
PFS Corporation
SERIAL NO.
DECAL NO.
FIRE MARSHAL PLAN REVIEW NO.
DATE OF MFG.
OCCUPANT LOAD.
FLOOR LIVE LOAD.
WIND LOAD (V3s).
ROOF SNOW LOAD.
ROOF LIVE LOAD.
ROOF DEAD LOAD.
TYPE OF CONSTRUCTION.
OCCUPANCY USE GROUP.
APPROVED FOR FLOOD ZONE USAGE: NO FLOOD ZONE INDICATED
PERMISSABLE GAS (for equip.) N/A
NAME AND DATE OF CODES:
LA: 2015 IBC, 2015 IPC, 2015 IMC, 2014 NEC, 2015 IFGC, NFPA 101-2015, 2010 ADAAG, ASHRAE 90.1-2007

ADDRESS:
Cottage Grove, Wl.

50 psf. (2000 lb concentrated)
(100 psf. @ corridor)

2015 IBC - 170 MPH (ULT) EXP. C,
132 MPH (ASD) EXP. C,
OCCUPANCY CATEGORY II AND III

15 psf.

20 psf.

10 psf.

VB

SUITABLE FOR USE WITH E OR B CLASSROOMS

SPECIAL CONDITIONS/LIMITATIONS: 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.

HEATING EQUIP. MFG.
HEATING MODEL
SEISMIC DESIGN CATEGORY. C

NOTE: DATA PLATE TO BE LOCATED ON PANEL BOX DOOR OR SHALL BE PLACED ON THE INTERIOR SIDE OF THE EXTERIOR WALL @ THE HITCH END ABOVE THE T-GRID LOCATION.

DRAWING INDEX

SHEET 1: MOD POD A&B, C&D, E, F&G SPECIFICATIONS AND CONDITIONS
SHEET 2: MOD POD A&B, C&D, E, F&G FLOOR PLAN, FLR PLAN LEGEND, PLUMBING SCHEMATICS
SHEET 3: MOD POD A&B, C&D, E, F&G ELECTRICAL PLAN, ELECTRICAL, LEGEND, ELECTRICAL CALCS AND ELECTRICAL NOTES
SHEET 4: MOD POD, C&D, E, F&G HVAC PLAN AND REFLECTED CEILING PLAN
SHEET 5: BLD. CROSS-SECTION, ELEVELS & DETAILS
SHEET 6: DETAILS
SHEET 7: DETAILS
SHEET 8: DETAILS
SHEET 9: DETAILS
SHEET 10: SUGGESTED BLKG PLAN (6 CLASSROOMS)
SHEET 11: SUGGESTED BLKG PLAN (8 CLASSROOMS)
SHEET 12: SUGGESTED BLKG PLAN (10 CLASSROOMS)
SHEET 13: SUGGESTED BLKG PLAN (12 CLASSROOMS)

INDICOM BUILDINGS, INC.

INDUSTRIALIZED COMMERCIAL BUILDINGS
721 N. BURLESON BLVD - BURLESON, TX 76028
817-447-1213 FAX 817-447-2751

THESE DRAWINGS REMAIN THE PROPERTY OF INDICOM BUILDINGS INC. AND ARE NOT TO BE USED IN ANYWAY WITHOUT WRITTEN PERMISSION.

DEALER: MOBILE MODULAR MANAGEMENT HOUSTON

PROJECT: VARIABLE UNIT COMPLEX

MOD POD

PROJECT NUMBER: -----

SCALE: AS NOTED

PLOT DATE:
5/9/2018

SALESMAN: RP

DRAWN BY: ----

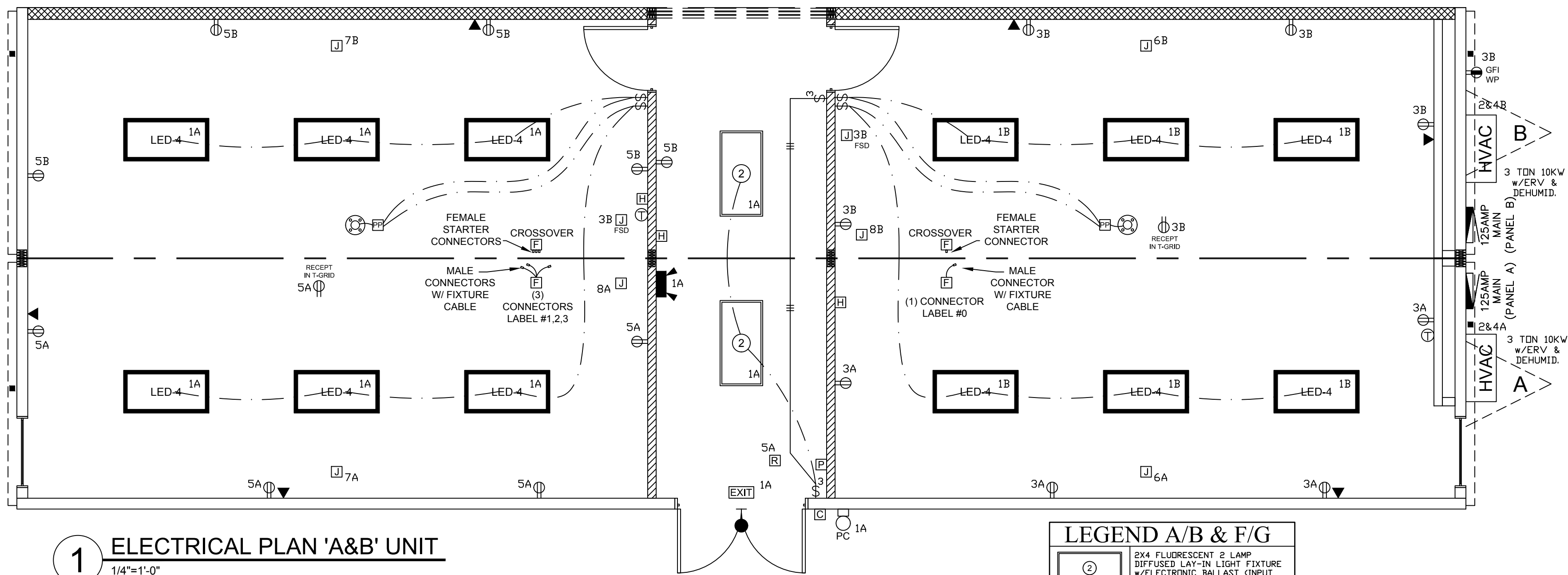
STATES:
TXLAOKAR

SERIAL NUMBERS:

REVISIONS:

SHEET:

1 OF 13



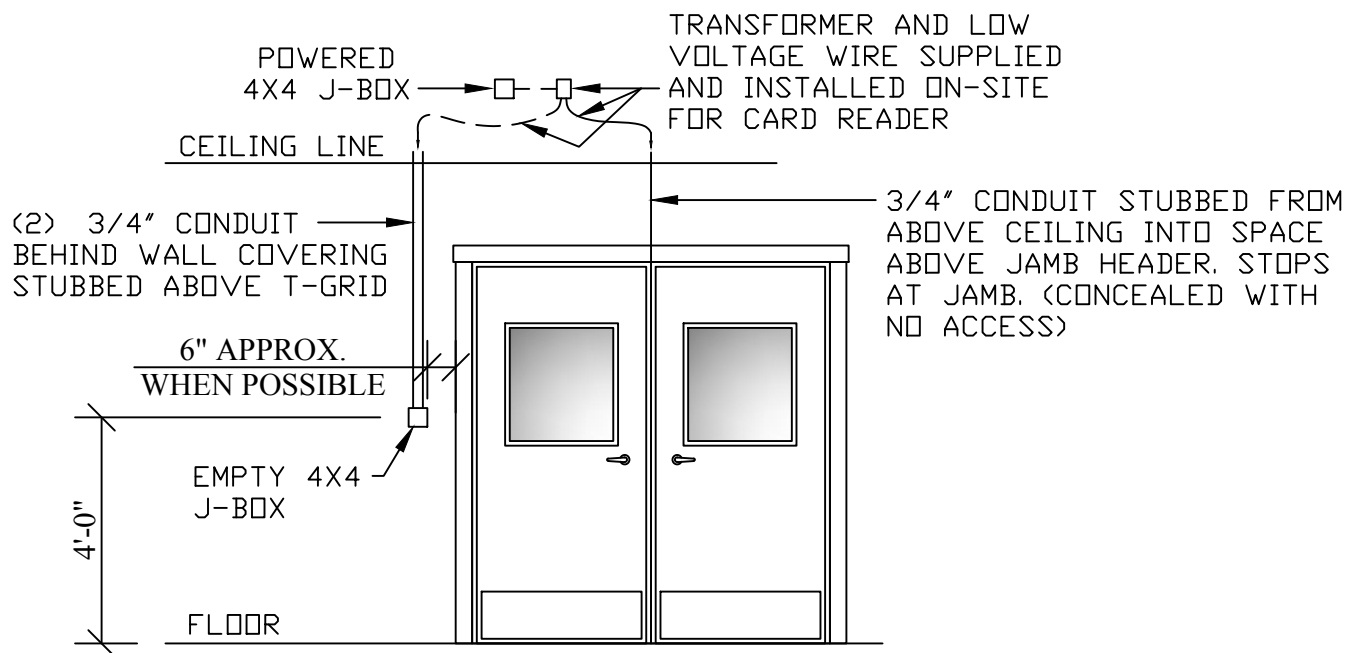
1 ELECTRICAL PLAN 'A&B' UNIT
1/4"=1'-0"

125 AMP 120/240 1 PHASE									
PANEL WITH 125 AMP MAIN BREAKER (NEMA 3R)									
WS	Description	Circuit	BRK	A	B	BRK	Circuit	Description	WS
1	Main Breaker		125	6670		60	2	HVAC Unit 3 Ton w/10KW 60A	6
1	Main Breaker		2		6670	2	4		6
12	Lights	1	20	543		20	6	Powered J-Box Above T-Grid	12
12	Receptacles	3	20	1800	720	20	8	Powered J-Box Above T-Grid	12
12	Receptacles	5	20	1080	1800	0	10		###
12	Powered J-Box Above T-Grid	7	20	0	1800	0	12	Space	###
				10093	10990	Total			
ELECTRICAL CALCULATION:									
GENERAL LIGHTING:									
543 LIGHTS x 125% = 678.8 watts									
10 RECEPTACLES = 1800 watts									
1 HVAC UNITS = 13340 watts									
3 PWRD J-BOXES = 5400 watts									
0 = 0 watts									
0 = 0 watts									
0 = 0 watts									
0 = 0 watts									
21219 watts divide by 240volts = 88.41 AMPS TOTAL									
PANEL A									
TYPE OF PANEL: LOAD CENTER									

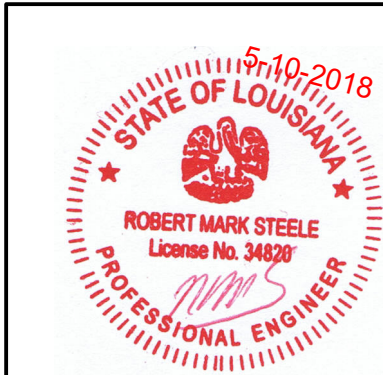
125 AMP 120/240 1 PHASE									
PANEL WITH 125 AMP MAIN BREAKER (NEMA 3R)									
WS	Description	Circuit	BRK	A	B	BRK	Circuit	Description	WS
1	Main Breaker		125	6670		60	2	HVAC Unit 3 Ton w/10KW 60A	6
1	Main Breaker		2		6670	2	4		6
12	Lights	1	20	360		20	6	Powered J-Box Above T-Grid	12
12	Receptacles	3	20		1080	20	8	Powered J-Box Above T-Grid	12
				1800					
12	Receptacles	5	20	900		0		Space	###
				0			10		###
12	Powered J-Box Above T-Grid	7	20		1800	0		Space	###
					0		12		###
				9730	11350	Total			
ELECTRICAL CALCULATION:									
GENERAL LIGHTING:									
360 LIGHTS x 125% = 450 watts									
11 RECEPTACLES = 1980 watts									
1 HVAC UNITS = 13340 watts									
3 PWRD J-BOXES = 5400 watts									
0 = 0 watts									
0 = 0 watts									
0 = 0 watts									
0 = 0 watts									
21170 watts divide by 240volts = 88.21 AMPS TOTAL									
TYPE OF PANEL: LOAD CENTER									

LEGEND A/B & F/G	
②	2X4 FLUORESCENT 2 LAMP DIFFUSED LAY-IN LIGHT FIXTURE w/ELECTRONIC BALLAST (INPUT WATTAGE=52)
LED-4	2X4 LED (6400 LUMENS) DIFFUSED LAY-IN LIGHT FIXTURE
PC	COMPACT FLUORESCENT EXTERIOR LIGHT WITH PHOTOCELL (INPUT WATTAGE = 13)
\$	LIGHT SWITCH @ 46" AFF
\$3	THREE WAY LIGHT SWITCH @ 46" AFF
FB-3	CEILING OCCUPANCY SENSORS WITH POWER PACK MOUNTED AT DROP CEILING
EXIT	BATTERY BACKUP EXIT SIGN
⌂	INTERIOR DOUBLE HEAD BATTERY PACK WITH REMOTE
⌂	EXTERIOR REMOTE HEAD EMERGENCY LIGHT
⌂	SINGLE PHASE PANEL BOX (EXTERIOR MOUNT) SEE PLANS AND PANEL SCHEDULES FOR SIZES (20" AFF)
⌂	20a/125v DUPLEX RECEPTACLE @ 15" AFF
⌂	20a/125v GFCI 'WR' RATED EXT. RECEPTACLE w/WEATHERPROOF 'EXTRA DUTY IN USE' COVER @ 15" AFF
▼	4X4 J-BOX WITH SINGLE GANG MUD RING AND 3/4" CONDUIT STUBBED ABOVE T-GRID AND BELOW FLOOR FOR PHONE/DATA JACK BY OTHERS @ 15" AFF
⌂	PROGRAMMABLE THERMOSTAT WITH LOCKING COVER MOUNTED @ 48" AFF TO CENTER
⌂	EMPTY 2X4 J-BOX 46" AFF TO BOTTOM WITH 3/4" CONDUIT STUBBED UP FOR PULL STATION BY ALARM PROVIDER
⌂	EMPTY 4X4 J-BOX WITH 2-GANG MUD RING 80" AFF TO BOTTOM WITH 3/4" CONDUIT STUBBED UP FOR HORN STRIKE BY ALARM PROVIDER
⌂	EMPTY 4X4 J-BOX AND A SINGLE GANG MUD RING WITH (2) 3/4" EMT CONDUIT STUBBED UP ABOVE T-GRID FOR ON-SITE CARD READER (SEE DETAIL ON ELEC. PLAN)
⌂	POWERED 4x4 J-BOX ABOVE T-GRID FOR ON-SITE CARD READER
⌂	2X4 POWERED J-BOX ABOVE T-GRID FOR FUTURE USE
⌂	POWERED 2X4 J-BOX ABOVE T-GRID FOR FIRE/SMOKE DAMPERS
⌂	J-BOX ABOVE T-GRID WITH PLUG-IN CONNECTORS FOR ON-SITE CROSSEDERS. 4X4 BOX @ (1) CONNECTOR 6X6 BOX @ (3) CONNECTORS

NOTE: ALL AFF DIMENSIONS ARE TO THE BOTTOM OF THE DEVICE BOX UNLESS NOTED 'TO CENTER'



PFS REVIEWED BY
Date: 5/16/18
PFS CORPORATION
Cottage Grove, WI



INDICOM BUILDINGS, INC.
INDUSTRIALIZED COMMERCIAL BUILDINGS
721 N. BURLESON BLVD - BURLESON, TX 76028
817-447-1213 FAX 817-447-2751

THESE DRAWINGS REMAIN THE PROPERTY OF INDICOM BUILDINGS INC. AND ARE NOT TO BE USED IN ANYWAY WITHOUT WRITTEN PERMISSION.

DEALER: MOBILE MODULAR MANAGEMENT
HOUSTON
PROJECT: VARIABLE UNIT COMPLEX
MOD POD
PROJECT NUMBER: _____

SCALE: AS NOTED

PLOT DATE:
5/9/2018

SALESMAN: RP

DRAWN BY: ----

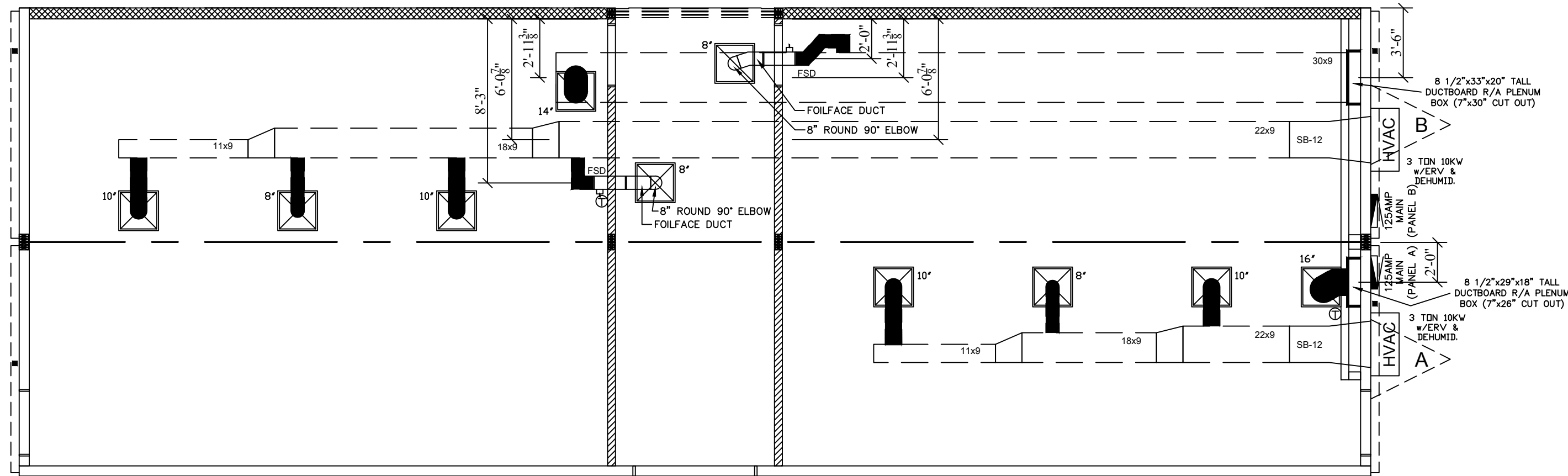
STATES:
TXLAOKAR

SERIAL NUMBERS:

REVISIONS:

SHEET:

3 OF 13



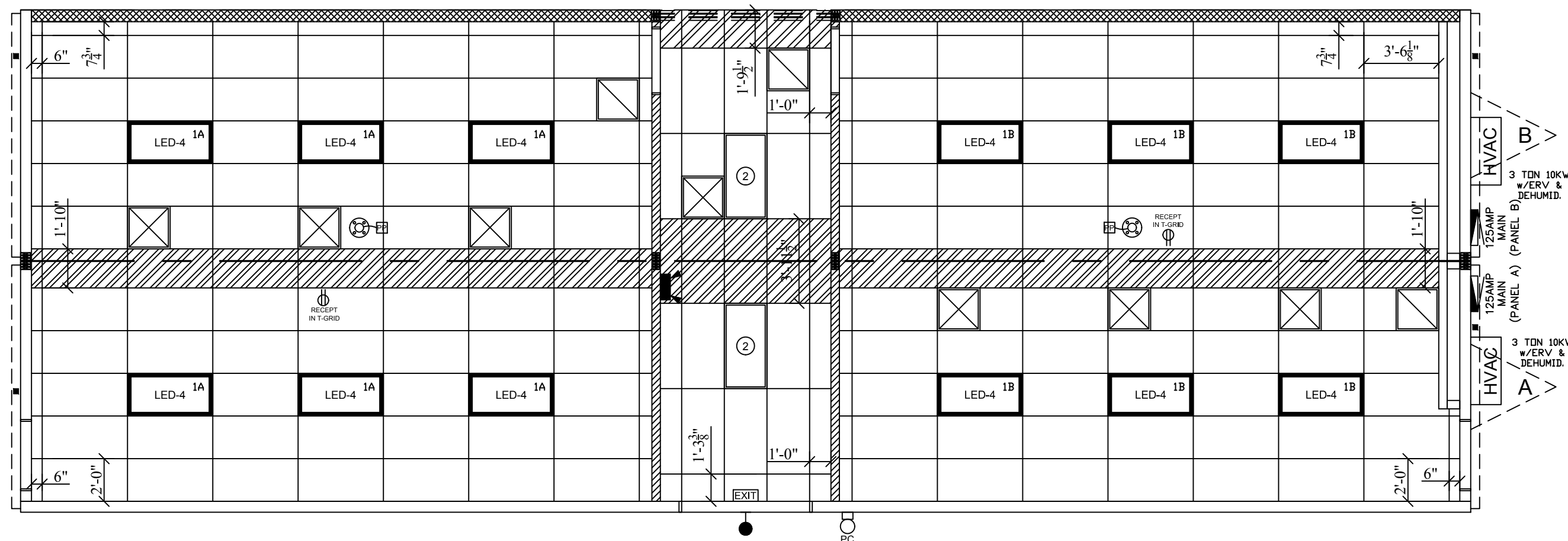
2 HVAC PLAN 'A&B' UNIT
3/16"=1'-0"

HVAC LEGEND	
HVAC	BARD HVAC UNIT WITH ELECTRIC HEAT STRIP (SEE HVAC PLAN FOR SIZES)
	FLEX DUCT
	FOILFACE DUCT
	24X24 4-WAY LAY-IN DIFFUSER W/ R-42 RADIAL DAMPER
	24X24 PERFORATED LAY-IN R/A GRILLE
	FIRE/SMOKE DAMPER

MECHANICAL VENTILATION			
$Vbz = (Rp P2) + (Ra Az)$			
AREA (Az)	ROOM CLASSROOM	653	S.F.
OCCUPANCY DENSITY LOAD #/1000 SQFT (P2)		23	
OUTSIDE AIR REQUIRED (Rp)	10 CFM X 23 (P2)	229	CFM
AREA OUTDOOR AIRFLOW RATE (Ra)	0.12 X (Az)	78	CFM
AIRFLOW RATE (Vbz)		307	CFM
TOTAL CFM AVAILABLE		1100	CFM
FRESH AIR DAMPER SETTING	307 / 1100	28%	

STANDARD WITH BARD UNIT IS A BAROMETRIC DAMPER WHICH PROVIDES UP TO 25% OF OUTSIDE FRESH AIR. A ERV REPLACES THE BAROMETRIC DAMPER AND THE ERV PROVIDES UP TO 200 TO 450 CFM'S OF OUTSIDE AIR.

*MECHANICAL VENTILATION SHALL BE PROVIDED AS REQ'D. IN ACCORDANCE WITH TABLE 403.3 OF THE IMC CODE OR NATURAL MEANS OF VENTILATION SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 402 OF THE IMC CODE.



3 REFLECTED CEILING PLAN 'A&B' UNIT
3/16"=1'-0"

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

PFS REVIEWED BY
Date: 5/16/18
PFS CORPORATION
Cottage Grove, WI

5-10-2018
STATE OF LOUISIANA
ROBERT MARK STEELE
License No. 34820
PROFESSIONAL ENGINEER

INDICOM BUILDINGS, INC.
INDUSTRIALIZED COMMERCIAL BUILDINGS
721 N. BURLESON BLVD - BURLESON, TX 76028
817-447-1213 FAX 817-447-2751

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DEALER: MOBILE MODULAR MANAGEMENT
HOUSTON
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REVISIONS:

SHEET:
4 OF 13

NOTES:
1. SITE PLAN NOT AVAILABLE AT THIS TIME. BUILDING DESIGNED TO HAVE FIRE SEPARATION DISTANCE GREATER THAN 10 FT. IN ACCORDANCE WITH TABLE 602 OF THE IBC.
2. PORCHES, STEPS, AND RAMPS TO BE SUPPLIED AND INSTALLED BY OTHERS IN ACCORDANCE WITH THE IBC.
3. PORTABLE FIRE EXTINGUISHERS TO BE SUPPLIED AND INSTALLED ON SITE BY OWNER IN ACCORDANCE WITH SECTION 906 OF THE IBC.
4. ANY REQUIRED FIRE/SMOKE DETECTION AND/OR SUPPESSION TO BE INSTALLED BY OTHERS ON SITE IN ACCORDANCE WITH THE IBC AND THE IFC.
5. MOBILE MODULAR MANAGEMENT TO SITE CONSTRUCT DRAFT STOP IN ACCORDANCE WITH THE IBC WHERE REQUIRED.

MOBILE MODULAR MANAGEMENT MOD POD 'C & D' VARIABLE UNIT COMPLEX

THE FOLLOWING UNITS ARE TO BE CONSTRUCTED INDIVIDUALLY BY THE FACTORY:
"A&B" UNIT-OUTSIDE UNIT W/TWO CLASSROOMS "C&D" UNIT-MIDDLE UNIT W/TWO CLASSROOMS
"E" UNIT-MIDDLE UNIT W/RESTROOMS "F&G" UNIT-OUTSIDE UNIT W/TWO CLASSROOMS

NOTE: FOR A TYPE VB GROUP B OR E BUILDING THE MAXIMUM SQUARE FOOTAGE ANY COMBINATION OF UNITS SHALL BE 9,000 SQ. FT. ADDITIONAL SITE INSTALLED EGRESS ELEMENTS MAY BE NECESSARY DEPENDING UPON THE LAYOUT AND CONFIGURATION. AREA INCREASE CALCULATION PROVIDED FOR CONFIGURATIONS EXCEEDING 9,000 SQ. FT. ON CONFIGURATION SHEET.

ADDITIONAL NOTE FOR CONFIGURATIONS: MOD POD UNITS ARE DESIGNED TO BE MANUFACTURED INDIVIDUALLY. MODULES ARE DESIGNED TO ALLOW SEVERAL DIFFERENT COMPLEX CONFIGURATIONS IN THE FIELD WITH A MINIMUM OF 7 UNITS (6 CLASSROOMS) AND A MAXIMUM OF 13 UNITS (12 CLASSROOMS). NO MORE THAN 8 MODULES BETWEEN SIDEWALL SHEARWALLS OR FULL HEIGHT BEARING WALL SHEARWALLS. CONFIGURATIONS OF ANY COMPLEX SHALL NOT EXCEED SQUARE FOOTAGE LIMITATIONS SET FORTH IN "TABLE 503" (use group B or E, type VB) OF THE 2015 Ed. IBC AND NFPA 101-2015. EGRESS REQUIREMENTS MUST BE MET IN ALL CONFIGURATIONS IN ACCORDANCE WITH CHAPTER 10 OF THE 2015 Ed. OF THE IBC AND NFPA 101-2015. THE MINIMUM REQUIRED PLUMBING FIXTURES MUST BE OBTAINABLE IN ALL CONFIGURATIONS ACCORDING TO THE 2015 Ed. IPC W/ AMENDMENTS.

General Construction Specifications (MODULES C & D)

Frame Construction:

Frame Type: Outrigger
Quantity: (2) EA
Size: 126812
Type: Outrigger and crossmember @ 48 in. O.C.
Main beams to be 99 1/2 in. O.C.
Beam Size: 12 1/2 in. Jr. I-beam
Axles: Five 6000# rated with (3) brake (2) tag
Hitch: Detachable underslung
Tires: 8x14.5 14 ply rated

Additional Frame Items Included in Quoted Price:

Item 1: 2 EA. tail lights.

Floor Construction:

Floor Joist: 2x8 #2 SYP equal or better
Framing: Transverse
Joist: 16 in. O.C.
Floor: Single layer 3/4 in. Advantech decking. Attach using liquid nails adhesive and 2 3/8" x .113" ring shank nails. (Ship loose 5/8 in. filler and Armstrong S-194) fast setting patch. Hold back decking (2 1/4) inches at each side of mateline.
Insulation: R-30 unfaced fiberglass batt (2-layers of R-13)
Bottom: Mobilflex or equal

Floor Covering Type 1:

1/8in. commercial grade tile. Tile to be checkerboard and 50% offset at Corridor and Classrooms. Hold back tile (11 1/2" @ Modules C & D matelines) (9 1/2" @ Modules C & D load bearing wall).
Color to be: (51858 SANDRIFT WHITE)

Additional Floor Items Included in Quoted Price:

Item 1: All outer perimeter rails to be treated lumber and Fortifiber moist stop PF at all perimeter rails 12 in. up from bottom of rails.

Exterior Wall Construction:

Framing: 2x6 #2 SYP equal or better @ 16 in. o.c. w/double 2x6 #2 SYP equal or better top plate and single 2x6 #2 SYP or better bottom plate. (3-2x6 header with (2) 1/2 in. shim at all exterior openings unless otherwise noted)
Wall Sheathing: 7/16 in. OSB on entire perimeter
Insulation: R-21 Kraft back fiberglass batt.
Siding Type: 7/16 in. LP Stucco panel vertical siding w/house wrap underlayment
Siding body color: (LIGHT STONE - KWAL SEMI GLOSS)
4 in. door & window trim color: (CAMEL - KWAL SEMI GLOSS)
8 in. bottom trim color: (LIGHT STONE - KWAL SEMI GLOSS)
4 in. intermediate horizontal trim color: (LIGHT STONE - KWAL SEMI GLOSS)
8 in top horizontal trim color: (CAMEL - KWAL SEMI GLOSS)
Covering height: 9 ft.
Wall Covering 1: 5/8 in. Type-X vinyl covered gypsum with wrapped battens. Color to be: (HAMPTON GRAY)
Wall Covering 2: Standard White FRP panels pre-laminated over 5/8 in. Type-X gypsum board @ Corridor. (Use V-45 trim)
Sidewall Height: See cross section for heights

Additional Exterior Wall Items Included in Quoted Price:

Item 1: Siding and trim installed on full height load bearing wall on modules C&D.
Item 2: Kwal paint custom colors.
Item 3: No holdback on exterior top trim - holdback splice and bottom trim 3 3/4 in. from each side of mateline.
Item 4: Ship loose 8 in. LP trim for exterior matelines.

Interior Wall Construction:

Framing: 2x4 #2 SYP equal or better @ 16 in. o.c. w/double 2x4 #2 SYP equal or better top plate and single 2x4 #2 SYP or better bottom plate
Overall height: 8 ft.
Insulation: R-11 unfaced battens for sound attenuation @ all walls
Wall Covering 1: 5/8 in. Type-X vinyl covered gypsum with wrapped battens. Color to be: (HAMPTON GRAY)
Covering height: 8 ft.

Wall Covering 2: Standard White FRP panels pre-laminated over 5/8 in. gypsum board @ Corridor. (Use V-45 trim)
Covering height: 8 ft.
Base Trim: 4 in. vinyl cove. Color to be: (CB-67 DOVE GRAY) (holdback base cove)
Trim Package: Interior trim color to be: (HAMPTON GRAY)
Inside corners: 4 in. tri-mold VC batten
Outside corners: 4 in. tri-mold VC batten
Window trim: color to be: (4993-1695 GRAY)
Hold Backs: Hold back of gypsum and FRP at matelines. (see holdback details on sheet 2)

Additional Interior Wall Items Included in Quoted Price:

Item 1: Corridor walls are extended to the bottom of rafters and are one hour fire rated.
Item 2: 136 LF of mateline wall to be 2x6 with R-21 kraft back insulation and 7/16 in. OSB sheathing.

Roof Construction:

Design Load: 20 p.s.f live load
Roof Type: Transverse ridge
Rafter size: 2x8 #2 SYP equal or better
Spacing: 16 in. O.C.
Mate Beam: Multi-layer laminated plywood
Height: 24 in. to 32 1/2 in. to 24 in.
Length: 68 ft.
No. of Layers: 3
No. of Beams: 2
Ceiling: 1870 SF 2 ft. x 4 ft. @ 7"-10" (Armstrong Prelude XL White T-Grid with Armstrong #2910 tiles) installed at factory, held back at matelines. Completion of ceiling installation on-site by MMMC; not in Indicom's scope.
Insulation: R-38HD unfaced fiberglass batt with support netting
Sheathing: 7/16 in. Mulehide Class C FR Deck
Roofing: 45 mil WHITE single ply EPDM (material warranty certificate)

Additional Roof Items Included in Quoted Price:

Item 1: 2x4 horizontal fire rated ceiling at Corridor with 5/8 in. Type-X gypsum board installed on both sides of horizontal ceiling.
Item 2: Triple 2x8 header with 1/2 in. CDX plywood spacer at 8"-1" at mateline Corridor opening.
Item 3: Corridor matebeams will be wrapped with 1-layer of 5/8 in. Type-X gypsum and taped only below horizontal fire rated ceiling. Completion of the bottom of matebeams to be on-site by MMMC.
Item 4: Draft stop if required on-site by MMMC.
Item 5: 11'-5" long aluminum 5 in. gutters with end caps on each end of module stopped 2 in. from sidewall and matelines color to be: (CAMEL - KWAL SEMI GLOSS). (1) aluminum downspout per end color to be: (LIGHT STONE - KWAL SEMI GLOSS).
Item 6: Roofing to fold over matelines side approx. 5 in. with tapered 2x4. Ship loose 12 in. mateline tape.

Exterior/Interior Doors: (SEE DOOR SCHEDULE)

Windows: (SEE WINDOW SCHEDULE)

Electrical Schedule			
Type	Qty	Note	Description
ELEC SERVICE	1		120/240V, 60 HZ, SINGLE PHASE
ELEC PANEL	2	125 AMP	1 P4 W/125 MAIN BREAKER, EXTERIOR MOUNT NEMA 3R (CUTLER HAMMER) (20 IN. TO THE BOTTOM OF PANEL)
ELEC RACEWAY	1		E.M.T. THIN WALL CONDUIT WITH SEPARATE GREEN GROUND
LIGHTS	12	(4000 LUMENS)	48 IN. DIFFUSED LED RECESSED LAY-IN (LITHONIA 20TL4 40L LP840)
LIGHTS	2	2-LAMPS	48 IN. DIFFUSED FLUORESCENT RECESSED LAY-IN WITH ELECTRONIC BALLAST & T-8 LAMPS
EMERG. LIGHT	1		INTERIOR DOUBLE HEAD BATTERY PACK
RECEPTACLE	2		20A/125V CEILING RECEPTACLE (WHITE)
RECEPTACLE	1		20A/125V GFCI PROTECTED WITH WEATHERPROOF IN-USE COVER
RECEPTACLE	17		20A/125V DUPLEX
PHONE/COMM.	6	3/4 IN.	4X4 J-BOX WITH SINGLE GANG MUD RING STUBBED ABOVE CEILING AND DOWN BELOW FLOOR WITH EMT CONDUIT
J-BOX	6		POWERED J-BOX ABOVE T-GRID FOR FUTURE USE
J-BOX	3		4X4 EMPTY J-BOX WITH 2 GANG MUD RING STUBBED UP FOR HORN-STROBE BY OTHERS
J-BOX	4		J-BOX ABOVE T-GRID FOR FIELD CROSSOVER CONNECTIONS (PLUG-IN CONNECTORS)
OCCUPANCY SENSOR	2		CEILING MOUNTED OCCUPANCY SENSOR (WATTSTOPPER CI-305 W/ BZ50 POWER PAK)
DEVICE COLOR	1		COLOR TO BE: (WHITE)

Additional Electrical Items Included in Quoted Price:

Item 1: All ceiling lights are supported at all 4 corners with wires.
Item 2: (2) spare 3/4 in. conduits from each panel to above ceiling terminating in J-box.

PLUMBING: NONE

HVAC Schedule			
Type	Qty	Note	Description
HVAC UNIT TYPE	2	3 TON COOLING WITH 10-KW ELECTRIC	END MOUNT UNIT WITH ERV AND DEHUMIDIFICATION (MODEL BARD - W86A10RPA) (EXTEND CONDENSATE TO BELOW BOTTOM TRIM) COLOR TO BE: (BEIGE)
T-STAT	2		PROGRAMMABLE T-STAT(S) (BARD COMPLETESTAT -CS9B-THO) WITH LOCKING COVERS (BEKO - BTQK2)
HEAT DUCT	1	11x9, 18x9, 22x9 AND 30x9	FOIL FACED FIBERGLASS, 1-1/2 IN. THICK
DIFFUSERS	6		24 IN. x 24 IN. 4-WAY LAY-IN WITH ADJUSTABLE DAMPERS
R/A GRILLS	2		24 IN. x 24 IN. PERFORATED LAY-IN
DUCT SYSTEM	1		DUCTED SUPPLY WITH (1) FULLY DUCTED RETURN AND (1) WALL JUMP RETURN AIR TO PLENUM WALL

Additional HVAC Items Included in Quoted Price:

Item 1: 2x2 galvanized or alum. flashing above each HVAC unit (puddy tape on backside edge and edge touching A/C).

Cabinet:

(2) 4 ft. x 3 ft. Tack Boards
(2) 8 ft. x 4 ft. Marker Boards

Skirting:

NONE

State Labels:

Third party plan review and state IBC certification to be included

Additional Label Items Included in Quoted Price:

Item 1: Texas & Louisiana label / 20 lb roof load / 2009 IBC - 130 MPH (ASD) EXP. C Oklahoma and Arkansas engineered sealed drawings.

Clarifications/Notes:

Item 1: All required crossovers to be completed on-site by MMMC.
Item 2: All mate-line connections to be completed on-site by MMMC.
Item 3: All shipping walls installed with 1/4 in. x 3 in. lag screws (no nails allowed).
Item 4: White poly close-up.

DATA PLATE

MANUFACTURE & ADDRESS (FOR WARRANTY INFORMATION): INDICOM BUILDING, INC. 721 N. Burleson Blvd. BURLESON, TX. 76028 IHM - 47 LAIB-M00002
DRAT AGENCY: PFS Corporation ADDRESS: Cottage Grove, WI.
SERIAL NO.
DECAL NO.
FIRE MARSHAL PLAN REVIEW NO.
DATE OF MFG.
OCCUPANT LOAD: 65
FLOOR LIVE LOAD: 50 psf. (2000 lb concentrated) (100 psf. @ corridor)
WIND LOAD (V3s): 2015 IBC - 170 MPH (ULT) EXP. C, 132 MPH (ASD) EXP. C, OCCUPANCY CATEGORY II AND III
ROOF LIVE LOAD: 20 psf.
ROOF DEAD LOAD: 10 psf.
TYPE OF CONSTRUCTION: VB
OCCUPANCY USE GROUP: SUITABLE FOR USE WITH E OR B CLASSROOMS
APPROVED FOR FLOOD ZONE USAGE: NO FLOOD ZONE INDICATED
PERMISSIBLE GAS (for equip.): N/A
NAME AND DATE OF CODES:

LA: 2015 IBC, 2015 IPC, 2015 IMC, 2014 NEC, 2015 IFGC, NFPA 101-2015, 2010 ADAAG, ASHRAE 90.1-2007

SYSTEMS COMPLETED AT FACTORY:
STRUCTURAL (X) ELECTRICAL (X) PLUMBING (X) HVAC (X)

SPECIAL CONDITIONS/LIMITATIONS: 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.

HEATING EQUIP. MFG.
HEATING MODEL
SEISMIC DESIGN CATEGORY: C

NOTE: DATA PLATE TO BE LOCATED ON PANEL BOX DOOR OR SHALL BE PLACED ON THE INTERIOR SIDE OF THE EXTERIOR WALL @ THE HITCH END ABOVE THE T-GRID LOCATION.

DRAWING INDEX

SHEET 1: MOD POD A&B, C&D, E, F&G SPECIFICATIONS AND CONDITIONS
SHEET 2: MOD POD A&B, C&D, E, F&G FLOOR PLAN, FLR PLAN LEGEND, PLUMBING SCHEMATICS
SHEET 3: MOD POD A&B, C&D, E, F&G ELECTRICAL PLAN, ELECTRICAL, LEGEND, ELECTRICAL CALCS AND ELECTRICAL NOTES
SHEET 4: MOD POD, C&D, E, F&G HVAC PLAN AND REFLECTED CEILING PLAN
SHEET 5: BLD. CROSS-SECTION, ELEVS & DETAILS
SHEET 6: DETAILS
SHEET 7: DETAILS
SHEET 8: DETAILS
SHEET 9: DETAILS
SHEET 10: SUGGESTED BLKG PLAN (6 CLASSROOMS)
SHEET 11: SUGGESTED BLKG PLAN (8 CLASSROOMS)
SHEET 12: SUGGESTED BLKG PLAN (10 CLASSROOMS)
SHEET 13: SUGGESTED BLKG PLAN (12 CLASSROOMS)

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PROJECT: VARIABLE UNIT COMPLEX MOD POD

PROJECT NUMBER: -----

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SALESMAN: RP

DRAWN BY: -----

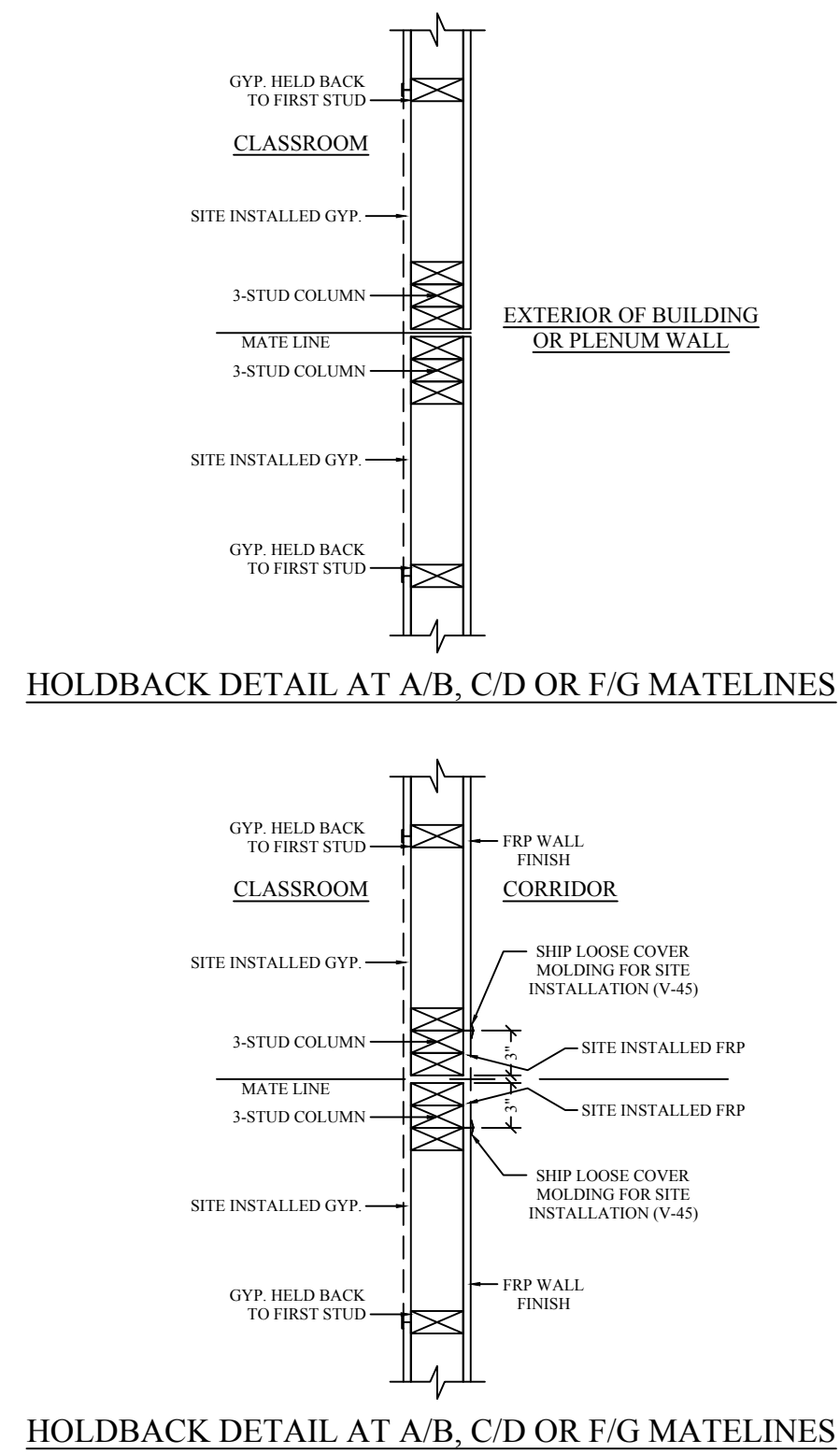
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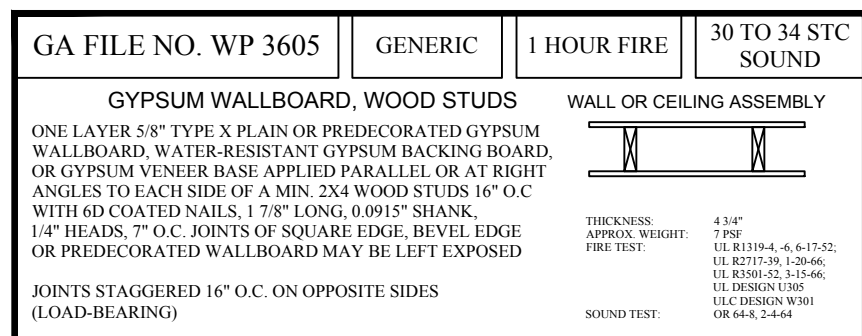
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CLASSROOM FUNCTION LOCKS TO BE
KEYED SEPARATE AND ALSO
KEYED TO MMMC MASTER

Window Schedule								
Qty	NO.	Type	Glazing	Size	U-Factor	SHGC	Mini-Blind	Notes
2	A	VINYL VERTICAL SLIDER WITH 28 IN SASH (EGRESS) COLOR TO BE: (CLAY)	CLEAR, DUAL GLAZED, LOW-E WITH ARGON AND TEMPERED GLASS	40"x60"	.33	.22	THIN LINE METAL MINI-BLINDS, COLOR TO BE: (ALABASTER)	WINDOWS INSTALLED WITH 1 5/8" ZINC DECK SCREWS, VINYL COVERED PAINTING WINDOW RETURNS, MINI-GUTTERS INSTALLED ABOVE TOP TRIM, WINDOW FLASHING TAPE AT ALL EXT. WINDOWS.

FLOOR PLAN LEGEND	
	INDICATES 1 HOUR FIRE RATED (WP3605) FULL HEIGHT WALL
	INDICATES FULL HEIGHT LOAD BEARING WALL TO BOTTOM OF RAFTERS



DEALER: MOBILE MODULAR MANAGEMENT
HOUSTON

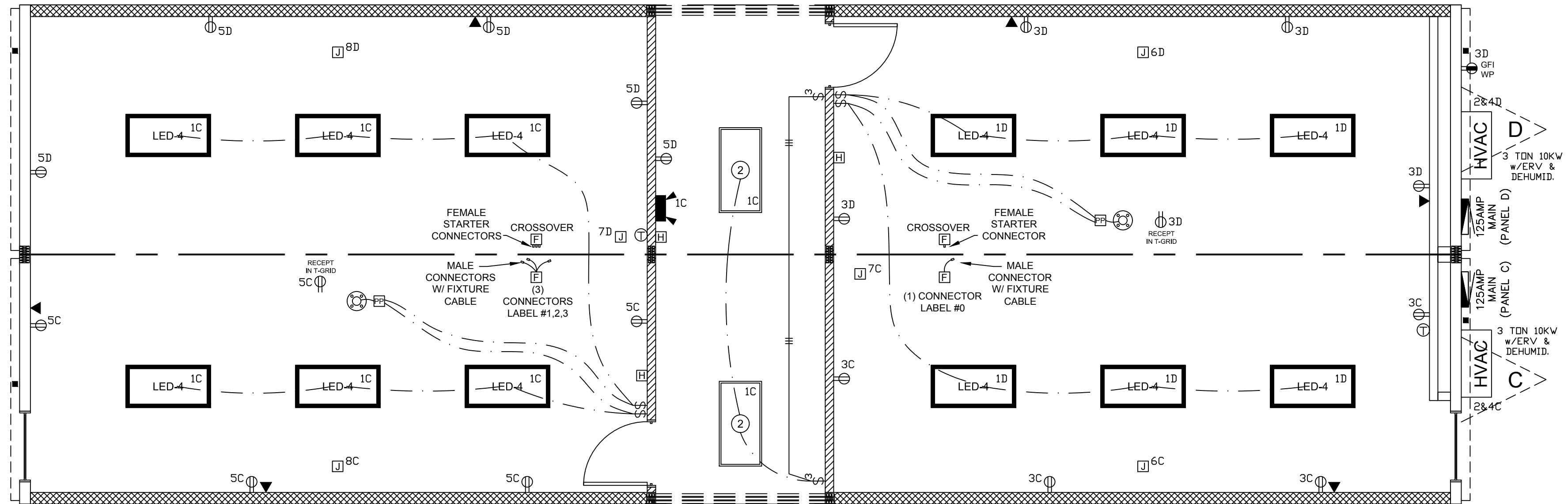
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STATES:	TXLAOKAR
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REVISIONS:	

SHEET:
2 OF 13

REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: JOHN L. WHITAKER, ARCHITECT
John L. Whitaker



1 ELECTRICAL PLAN 'C&D' UNIT
1/4"=1'-0"

125 AMP 120/240 1 PHASE									
PANEL WITH 125 AMP MAIN BREAKER (NEMA 3R)									
WS	Description	Circuit	BRK	A	B	BRK	Circuit	Description	WS
1	Main Breaker		125	6670		60	2	HVAC Unit 3 Ton w/10KW 60A	6
1	Main Breaker		2		6670	2	4		6
12	Lights	1	20	491 1800		20	6	Powered J-Box Above T-Grid	12
12	Receptacles	3	20		720 1800	20	8	Powered J-Box Above T-Grid	12
12	Receptacles	5	20	1080 0		0	10	Space	###
12	Powered J-Box Above T-Grid	7	20		1800 0	0	12	Space	###
				10041	10990	Total			
<u>ELECTRICAL CALCULATION:</u>									
GENERAL LIGHTING:									
491 LIGHTS x 125%		=		613.8 watts					
10 RECEPTACLES		=		1800 watts					
1 HVAC UNITS		=		13340 watts					
3 PWRD J-BOXES		=		5400 watts					
0		=		0 watts					
0		=		0 watts					
0		=		0 watts					
0		=		0 watts					
				<hr/> 21154 watts divide by 240volts = 88.14 AMPS TOTAL <hr/>					
PANEL C									
TYPE OF PANEL: LOAD CENTER									

125 AMP 120/240 1 PHASE									
PANEL WITH 125 AMP MAIN BREAKER (NEMA 3R)									
WS	Description	Circuit	BRK	A	B	BRK	Circuit	Description	WS
1	Main Breaker		125	6670		60	2	HVAC Unit 3 Ton w/10KW 60A	6
1	Main Breaker		2		6670	2	4		6
12	Lights	1	20	360 1800		20	6	Powered J-Boxes Above T-Grid	12
12	Receptacles	3	20		1080 1800	20	8	Powered J-Boxes Above T-Grid	12
12	Receptacles	5	20	900 2400		20	10	Optional M20L Insta Water Heater 20A	12
12	Powered J-Box Above T-Grid	7	20		1800 2400	2	12		12
				12130	13750	Total			

ELECTRICAL CALCULATION:
GENERAL LIGHTING:

360 LIGHTS x 125% = 450 watts

11 RECEPTACLES = 1980 watts

1 HVAC UNITS = 13340 watts

3 PWRD J-BOXES = 5400 watts

1 WATER HEATER = 4800 watts

0 = 0 watts

0 = 0 watts

0 = 0 watts

25970 watts divide by 240volts = 108.2 AMPS TOTAL

PANEL D
TYPE OF PANEL: LOAD CENTER

LEGEND C/D	
②	2X4 FLUORESCENT 2 LAMP DIFFUSED LAY-IN LIGHT FIXTURE W/ELECTRONIC BALLAST (INPUT WATTAGE=52)
LED-4	2X4 LED (6400 LUMENS) DIFFUSED LAY-IN LIGHT FIXTURE
\$	LIGHT SWITCH @ 46" AFF
\$3	THREE WAY LIGHT SWITCH @ 46" AFF
Ⓢ	CEILING OCCUPANCY SENSORS WITH POWER PACK MOUNTED AT DROP CEILING
Ⓢ	INTERIOR DOUBLE HEAD BATTERY PACK
Ⓢ	SINGLE PHASE PANEL BOX (EXTERIOR MOUNT) SEE PLANS AND PANEL SCHEDULES FOR SIZES (20" AFF)
Ⓢ	20a/125v GFCI 'WR' RATED EXT. RECEPTACLE w/WEATHERPROOF 'EXTRA DUTY IN USE' COVER @ 15" AFF
Ⓢ	20a/125v GFCI 'WR' RATED EXT. RECEPTACLE w/WEATHERPROOF 'EXTRA DUTY IN USE' COVER @ 15" AFF
Ⓢ	4X4 J-BOX WITH SINGLE GANG MUD RING AND 3/4" CONDUIT STUBBED ABOVE T-GRID FOR PHONE/DATA JACK BY OTHERS @ 15" AFF
Ⓢ	PROGRAMMABLE THERMOSTAT WITH LOCKING COVER MOUNTED @ 48" AFF TO CENTER
Ⓢ	EMPTY 4X4 J-BOX WITH 2-GANG MUD RING 80" AFF TO BOTTOM WITH 3/4" CONDUIT STUBBED UP FOR HORN STROBE BY ALARM PROVIDER
Ⓢ	2X4 POWERED J-BOX ABOVE T-GRID FOR FUTURE USE
Ⓢ	POWERED 2X4 J-BOX ABOVE T-GRID FOR FIRE/SMOKE DAMPERS
Ⓢ	J-BOX ABOVE T-GRID WITH PLUG-IN CONNECTORS FOR ON-SITE CROSSTOVERS. 4X4 BOX @ (1) CONNECTOR 6X6 BOX @ (2) CONNECTORS

NOTE: ALL AFF DIMENSIONS ARE TO THE BOTTOM OF THE DEVICE BOX UNLESS NOTED 'TO CENTER'

PFS REVIEWED BY
Date: 5/16/18
PFS CORPORATION
Cottage Grove, WI

5-10-2018
STATE OF LOUISIANA
ROBERT MARK STEELE
License No. 34820
PROFESSIONAL ENGINEER

INDICOM BUILDINGS, INC.
INDUSTRIALIZED COMMERCIAL BUILDINGS
721 N. BURLESON BLVD - BURLESON, TX 76028
817-447-1213 FAX 817-447-2751

THESE DRAWINGS REMAIN THE PROPERTY OF INDICOM BUILDINGS INC. AND ARE NOT TO BE USED IN ANYWAY WITHOUT WRITTEN PERMISSION.

DEALER: MOBILE MODULAR MANAGEMENT
HOUSTON
PROJECT: VARIABLE UNIT COMPLEX
MOD POD
PROJECT NUMBER: _____

SCALE: AS NOTED

PLOT DATE:
5/9/2018

SALESMAN: RP

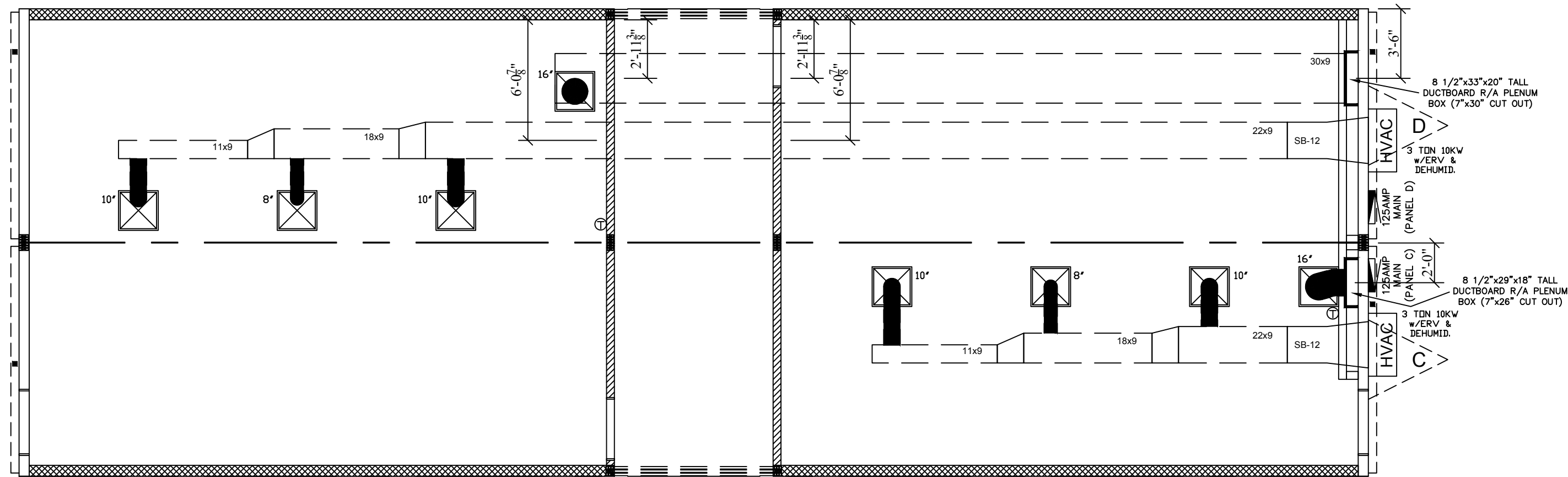
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STATES:
TXLAOKAR

SERIAL NUMBERS:

REVISIONS:

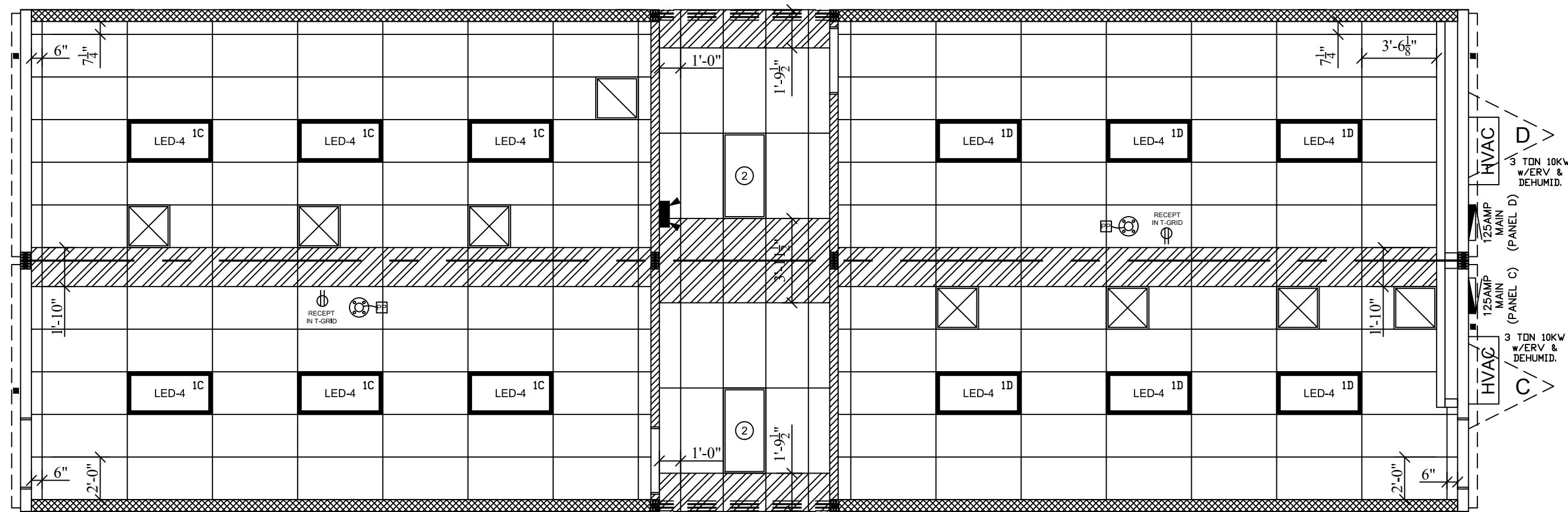
SHEET:
3 OF 13



HVAC LEGEND	
	BARD HVAC UNIT WITH ELECTRIC HEAT STRIP (SEE HVAC PLAN FOR SIZES)
	FLEX DUCT
	24X24 4-WAY LAY-IN DIFFUSER W/ R-42 RADIAL DAMPER
	24X24 PERFORATED LAY-IN R/A GRILLE

MECHANICAL VENTILATION			
Vbz = (Rp P2) + (Ra Az)			
AREA (Az)	ROOM CLASSROOM		653 S.F.
OCCUPANCY DENSITY LOAD #/1000 SQFT (P2)			23
OUTSIDE AIR REQUIRED (Rp)	10 CFM X 23 (P2)		229 CFM
AREA OUTDOOR AIRFLOW RATE (Ra)	0.12 X (Az)		78 CFM
AIRFLOW RATE (Vbz)			307 CFM
TOTAL CFM AVAILABLE			1100 CFM
FRESH AIR DAMPER SETTING	307 / 1100		28%
STANDARD WITH BARD UNIT IS A BAROMETRIC DAMPER WHICH PROVIDES UP TO 25% OF OUTSIDE FRESH AIR. A ERV REPLACES THE BAROMETRIC DAMPER AND THE ERV PROVIDES UP TO 200 TO 450 CFM'S OF OUTSIDE AIR.			
*MECHANICAL VENTILATION SHALL BE PROVIDED AS REQ'D. IN ACCORDANCE W/ TABLE 403.3 OF THE IMC CODE OR NATURAL MEANS OF VENTILATION SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 402 OF THE IMC CODE.			

2 HVAC PLAN 'C&D' UNIT
3/16"=1'-0"



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

3 REFLECTED CEILING PLAN 'C&D' UNIT
3/16"=1'-0"

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DEALER: MOBILE MODULAR MANAGEMENT
HOUSTON
PROJECT: VARIABLE UNIT COMPLEX
MOD POD
PROJECT NUMBER: _____

SCALE: AS NOTED
PLOT DATE: 5/9/2018
SALESMAN: RP
DRAWN BY: ----
STATES: TX/LAOKAR
SERIAL NUMBERS: ----
REVISIONS:

SHEET: 4 OF 13

PFS REVIEWED BY
Date: 5/16/18
PFS CORPORATION
Cottage Grove, WI

5-10-2018
STATE OF LOUISIANA
ROBERT MARK STEELE
License No. 34820
PROFESSIONAL ENGINEER

REVIEWED FOR
STAT - FINE-MARCHAL
AS PER REVIEW LETTER
BY JOHN L. WHITAKER ARCHITECT
John L. Whitaker

NOTES:
1. SITE PLAN NOT AVAILABLE AT THIS TIME. BUILDING DESIGNED TO HAVE FIRE SEPARATION DISTANCE GREATER THAN 10 FT. IN ACCORDANCE WITH TABLE 602 OF THE IBC.
2. PORCHES, STEPS, AND RAMPS TO BE SUPPLIED AND INSTALLED BY OTHERS IN ACCORDANCE WITH THE IBC.
3. PORTABLE FIRE EXTINGUISHERS TO BE SUPPLIED AND INSTALLED ON SITE BY OWNER IN ACCORDANCE WITH SECTION 906 OF THE IBC.
4. ANY REQUIRED FIRE/SMOKE DETECTION AND/OR SUPPESSION TO BE INSTALLED BY OTHERS ON SITE IN ACCORDANCE WITH THE IBC AND THE IFC.
5. MOBILE MODULAR MANAGEMENT TO SITE CONSTRUCT DRAFT STOP IN ACCORDANCE WITH THE IBC WHERE REQUIRED.



MOBILE MODULAR MANAGEMENT MOD POD 'E' VARIABLE UNIT COMPLEX

THE FOLLOWING UNITS ARE TO BE CONSTRUCTED INDIVIDUALLY BY THE FACTORY:
"A&B" UNIT-OUTSIDE UNIT W/TWO CLASSROOMS "C&D" UNIT-MIDDLE UNIT W/TWO CLASSROOMS
"E" UNIT-MIDDLE UNIT W/RESTROOMS "F&G" UNIT-OUTSIDE UNIT W/TWO CLASSROOMS

NOTE: FOR A TYPE VB GROUP B OR E BUILDING THE MAXIMUM SQUARE FOOTAGE ANY COMBINATION OF UNITS SHALL BE 9,000 SQ. FT. ADDITIONAL SITE INSTALLED EGRESS ELEMENTS MAY BE NECESSARY DEPENDING UPON THE LAYOUT AND CONFIGURATION. AREA INCREASE CALCULATION PROVIDED FOR CONFIGURATIONS EXCEEDING 9,000 SQ. FT. ON CONFIGURATION SHEET.

ADDITIONAL NOTE FOR CONFIGURATIONS: MOD POD UNITS ARE DESIGNED TO BE MANUFACTURED INDIVIDUALLY. MODULES ARE DESIGNED TO ALLOW SEVERAL DIFFERENT COMPLEX CONFIGURATIONS IN THE FIELD WITH A MINIMUM OF 7 UNITS (6 CLASSROOMS) AND A MAXIMUM OF 13 UNITS (12 CLASSROOMS). NO MORE THAN 8 MODULES BETWEEN SIDEWALL SHEARWALLS OR FULL HEIGHT BEARING WALL SHEARWALLS. CONFIGURATIONS OF ANY COMPLEX SHALL NOT EXCEED SQUARE FOOTAGE LIMITATIONS SET FORTH IN "TABLE 503" (use group B or E, type VB) OF THE 2015 Ed. IBC AND NFPA 101-2015. EGRESS REQUIREMENTS MUST BE MET IN ALL CONFIGURATIONS IN ACCORDANCE WITH CHAPTER 10 OF THE 2015 Ed. OF THE IBC AND NFPA 101-2015. THE MINIMUM REQUIRED PLUMBING FIXTURES MUST BE OBTAINABLE IN ALL CONFIGURATIONS ACCORDING TO THE 2015 Ed. IPC W/ AMENDMENTS.

General Construction Specifications (MODULE E)

Frame Construction:

Frame Type	Outrigger
Quantity:	(1) EA
Size:	126812
Type:	Outrigger and crossmember @ 48 in. O.C. Main beams to be 99 1/2 in. O.C.
Beam Size:	12 1/2 in. Jr. I-beam
Axles:	Six 6000# rated with (3) brake (3) tag
Hitch:	Detachable underslung
Tires:	8x14.5 14 ply rated

Additional Frame Items Included in Quoted Price:

Item 1: 1 EA. tail lights.

Floor Construction:

Floor Joist:	2x8 #2 SYP equal or better
Framing:	Transverse
Joist:	16 in. O.C.
Floor:	Single layer 3/4 in. Advantech decking. Attach using liquid nails adhesive and 2 3/8" x .113" ring shank nails. (Ship loose 5/8 in. filler and Armstrong S-194) fast setting patch. Hold back decking (2 1/4) inches at each side of mateline.
Insulation:	R-30 unfaced fiberglass batt (2-layers of R-13)
Bottom:	Mobilflex or equal

Floor Covering Type 1

1/8in. commercial grade tile. Tile to be checkerboard and 50% offset at Corridor and Classrooms. Hold back tile (10 1/2" @ Module F load bearing wall). Color to be: (51858 SANDRIFT WHITE)

Additional Floor Items Included in Quoted Price:

Item 1: All outer perimeter rails to be treated lumber and Fortifiber moist stop PF at all perimeter rails 12 in. up from bottom of rails.

Exterior Wall Construction:

Framing:	2x6 #2 SYP equal or better @ 16 in. O.C. w/double 2x6 #2 SYP equal or better top plate and single 2x6 #2 SYP or better bottom plate. (3-2x6 header with (2) 1/2 in. shim at all exterior openings unless otherwise noted)
Wall Sheathing:	7/16 in. OSB on entire perimeter
Insulation:	R-21 Kraft back fiberglass batt.
Siding Type:	7/16 in. LP Stucco panel vertical siding w/house wrap underlayment Siding body color: (LIGHT STONE - KWAL SEMI GLOSS) 4 in. door & window trim color: (CAMEL - KWAL SEMI GLOSS) 8 in. bottom trim color: (LIGHT STONE - KWAL SEMI GLOSS) 4 in. intermediate horizontal trim color: (LIGHT STONE - KWAL SEMI GLOSS) 8 in top horizontal trim color: (CAMEL - KWAL SEMI GLOSS) Covering height: 9 ft.
Wall Covering 1:	Standard White FRP panels pre-laminated over 5/8 in. Type-X gypsum board @ Restrooms, Janitor's Room and Corridor (Use V-45 trim, V-121 inside corner trim and V-123 outside corner trim) Covering height: 8 ft.
Sidewall Height:	See cross section for heights

Additional Exterior Wall Items Included in Quoted Price:

Item 1: Siding and trim installed on full height load bearing wall on module E.
Item 2: Kwal paint custom colors.
Item 3: No holdback on exterior top trim - holdback splice and bottom trim 3 3/4 in. from each side of mateline.
Item 4: Ship loose 8 in. LP trim for exterior matelines.

Interior Wall Construction:

Framing:	2x4 #2 SYP equal or better @ 16 in. o.c. w/double 2x4 #2 SYP equal or better top plate and single 2x4 #2 SYP or better bottom plate Overall height: 8 ft.
Insulation:	R-11 unfaced battens for sound attenuation @ all walls

Wall Covering 1:	Standard White FRP panels pre-laminated over 5/8 in. gypsum board @ Restrooms, Janitor's Room and Corridor (Use V-45 trim) Covering height: 8 ft.
Base Trim:	4 in. vinyl cove. Color to be: (CB-67 DOVE GRAY) (holdback base cove)
Trim Package:	Interior trim color to be: (HAMPTON GRAY) Inside corners: 4 in. tri-mold VC batten Outside corners: 4 in. tri-mold VC batten Window trim: color to be: (4993-1695 GRAY)
Hold Backs:	Hold back of FRP at matelines (see holdback details on sheet 2)

Additional Interior Wall Items Included in Quoted Price:

Item 1: Corridor walls are extended to the bottom of rafters and are one hour fire rated.
Item 2: 136 LF of mateline wall to be 2x6 with R-21 kraft back insulation and 7/16 in. OSB sheathing.

Roof Construction:

Design Load:	20 p.s.f live load
Roof Type:	Transverse ridge
Rafter size:	2x8 #2 SYP equal or better
Spacing:	16 in. O.C.
Ceiling:	799 SF 2 ft. x 4 ft. @ 7"-10" (Armstrong Prelude XL White T-Grid with Armstrong #2910 tiles) installed at factory.
Insulation:	R-38HD unfaced fiberglass batt with support netting (2-layers of R-15 at fire rated Corridor)
Sheathing:	7/16 in. Mulehide Class C FR Deck
Roofing:	45 mil WHITE single ply EPDM (material warranty certificate)

Additional Roof Items Included in Quoted Price:

Item 1: 2x4 horizontal fire rated ceiling at Corridor with 5/8 in. Type-X gypsum board installed on both sides of horizontal ceiling.
Item 2: Triple 2x8 header with 1/2 in. CDX plywood spacer at 8'-1" at mateline Corridor opening.
Item 3: Draft stop if required on-site by MMMC.
Item 6: 11'-5" long aluminum 5 in. gutters with end caps on each end of module stopped 2 in. from sidewall and matelines color to be: (CAMEL - KWAL SEMI GLOSS). (1) aluminum downspout per end. Color to be: (LIGHT STONE - KWAL SEMI GLOSS).
Item 7: Roofing to fold over matelines side approx. 5 in. with tapered 2x4. Ship loose 12 in. mateline tape.

Exterior/Interior Doors:

(SEE DOOR SCHEDULE)

Windows:

(SEE WINDOW SCHEDULE)

Electrical Schedule			
Type	Qty	Note	Description
ELEC SERVICE	1		120/240V. 60 HZ. SINGLE PHASE
ELEC PANEL	1	125 AMP	1 PH W/100 MAIN BREAKER. EXTERIOR MOUNT NEMA 3R (CUTLER HAMMER) (20 IN. TO THE BOTTOM OF PANEL)
ELEC RACEWAY	1		E.M.T. THIN WALL CONDUIT WITH SEPARATE GREEN GROUND
LIGHTS	4	(4000 LUMENS)	48 IN. DIFFUSED LED RECESSED LAY-IN (LITHONIA 2GTL4 40L LP840)
LIGHTS	5	2-LAMPS	48 IN. DIFFUSED FLUORESCENT RECESSED LAY-IN WITH ELECTRONIC BALLAST & T-8 LAMPS
EXIT SIGN	1		115V WITH BATTERY BACKUP
EMERG. LIGHT	3		INTERIOR DOUBLE HEAD BATTERY PACK
RECEPTACLE	1		20A/125V DUPLEX
RECEPTACLE	1		20A/125V GFCI PROTECTED WITH WEATHERPROOF IN-USE COVER
RECEPTACLE	1		20A/125V GFCI PROTECTED HEAT TAPE BELOW UNIT
RECEPTACLE	7		20A/125V GFCI PROTECTED
RECEPTACLE	2	DEDICATED	20A/125V GFCI PROTECTED
PHONE/COMM.	2	3/4 IN.	4X4 J-BOX WITH SINGLE GANG MUD RING STUBBED ABOVE CEILING WITH EMT CONDUIT
J-BOX	2		4X4 EMPTY J-BOX WITH 2 GANG MUD RING STUBBED UP FOR HORN-STROBE BY OTHERS
J-BOX	1		EMPTY J-BOX STUBBED UP FOR HORN-STROBE BY OTHERS
SWITCHES	4		WALL OCCUPANCY OR VACANCY SENSOR SWITCH AT DOOR (SENSORSWITCH WSD) (INDICOM FACTORY SET TO MANUAL ON - AUTO OFF)
DEVICE COLOR	1		COLOR TO BE: (WHITE)

Additional Electrical Items Included in Quoted Price:

Item 1: All ceiling lights are supported at all 4 corners with wires.
Item 2: (2) spare 3/4 in. conduits from each panel to above ceiling terminating in J-box.

Plumbing Schedule			
Type	Qty	Note	Description
SUPPLY	1		TYPE L HARD COPPER
STUB-OUTS	1		CAP OFF IN WALL (1) 1/2 IN. COLD WATER LINE AND 1 1/2 IN. DRAIN LINE FOR FUTURE DRINKING FOUNTAIN
DNV SYSTEM	1		POLY VINYL CHLORIDE SCHEDULE 40
WATER CLOSET	5	(VORTENS)	HANDICAP ELONGATED TANK TYPE WITH SHUT OFF VALVE
WATER CLOSET	5	(VORTENS)	ELONGATED TANK TYPE WITH SHUT OFF VALVE
URINAL	3	(ZURN)	WALL HUNG WHITE VITREOUS WITH COMMERCIAL GRADE FLUSH VALVE
LAVATORY	11	(ZURN)	19 IN. x 17 IN. WHITE VITREOUS WALL HUNG WITH ADA HANDLES
WATER HEATER	1	20 GAL.	ELECTRIC WITH VACUUM RELIEF AND DRAIN PAN (RHEEM)
PAPER HOLDER	10	SINGLE ROLL	CHROME WALL MOUNT
GRAB BARS	4		42 IN. GRAB BARS
GRAB BARS	3		SET(S) WITH BLOCKING FOR FUTRE VERTICAL GRAB BAR WHEN REQUIRED
MIRROR	11		24 IN. x 36 IN. WITH STAINLESS STEEL FRAME
MODESTY	10		ENAMELED STEEL. COLOR TO BE: (SAND)
URINAL SCREEN	2		ENAMELED STEEL. COLOR TO BE: (SAND)
WATER COOLER	1		WALL HUNG SPLIT-LEVEL HANDICAP REFRIGERATED WITH CANE APRON
SINK TYPE	1	24 IN. x 24 IN.	MOLDED MOP BASIN WITH WALL MOUNTED FAUCET
FLOOR DRAIN	3	SIZE - 2"	FLOOR DRAIN WITH TRAP GUARD
SINK TYPE	2		FROST PROOF HOSE BIBB
VALVES	2	370 (5 LAVS)	LEONARD MIXING VALVE
VALVES	1	170 (1 LAV)	LEONARD MIXING VALVE
ARRESTOR	2	SIZE - 3/4"	WATER HAMMER ARRESTOR FOR FAST CLOSING DEVICES

HVAC Schedule			
Type	Qty	Note	Description
HVAC UNIT TYPE	1	3 TON COOLING WITH 10-KW ELECTRIC	END MOUNT UNIT WITH CRV AND DEHUMIDIFICATION. - WITH MOTORIZED DAMPER (NO RELIEF) AND THE DAMPER IS INTERLOCKED WITH RESTROOM FAN (MODEL BARD - W36ADA10RPX) (EXTEND CONDENSATE TO BELOW BOTTOM TRIM) COLOR TO BE: (BEIGE)
T-STAT	1		PROGRAMMABLE T-STAT(S) (BARD COMPLETESTAT -CS9B-THO) WITH LOCKING COVERS (BEKO - BT5GK2)
EXHAUST FAN	2	350 CFM	CEILING MOUNTED
EXHAUST FAN	4	110 CFM	CEILING MOUNTED
HEAT DUCT	1	11x9, 18x9 AND 22x9	FOIL FACED FIBERGLASS, 1-1/2 IN. THICK
SUPPLY BOOT	1	SB-12	FIRST 4 FT. TO BE METAL WITH INSULATION WRAP
DIFFUSERS	6		24 IN. x 24 IN. 4-WAY LAY-IN WITH ADJUSTABLE DAMPERS
R/A GRILLS	4		24 IN. x 24 IN. PERFORATED LAY-IN
DUCT SYSTEM	1		PLENUM WALLS WITH FULLY DUCTED SUPPLY AND RETURN AIR

Additional HVAC Items Included in Quoted Price:

Item 1: 2x2 galvanized or alum. flashing above each HVAC unit (puddy tape on backside edge and edge touching A/C).
Item 2: Exhaust fans ducted through roof with flexible metal duct.
Item 3: Metal duct at fire rated Corridor (see HVAC plan for locations).

Cabinet:

NONE

Skirting:

NONE

State Labels:

Third party plan review and state IBC certification to be included

Additional Label Items Included in Quoted Price:

Item 1: Texas & Louisiana label / 20 lb roof load / 2009 IBC - 130 MPH (ASD) EXP. C Oklahoma and Arkansas engineered sealed drawings.

Clarifications/Notes:

Item 1: All required crossovers to be completed on-site by MMMC.
Item 2: All mate-line connections to be completed on-site by MMMC.
Item 3: All shipping walls installed with 1/4 in. x 3 in. lag screws (no nails allowed).
Item 4: White poly close-up.

DATA PLATE

MANUFACTURE & ADDRESS (FOR WARRANTY INFORMATION)	INDICOM BUILDING, INC. 721 N. Burleson Blvd. BURLESON, TX. 76028 IHM - 47 LAIB-M00002
DRAT AGENCY: PFS Corporation	ADDRESS: Cottage Grove, WI.
SERIAL NO.	
DECAL NO.	
FIRE MARSHAL PLAN REVIEW NO.	
DATE OF MFG.	
OCCUPANT LOAD.	8
FLOOR LIVE LOAD.	50 psf. (2000 lb concentrated) (100 psf. @ corridor)
WIND LOAD (V3s).	2015 IBC - 170 MPH (ULT) EXP. C, 132 MPH (ASD) EXP. C, OCCUPANCY CATEGORY II AND III
ROOF LIVE LOAD.	20 psf.
ROOF DEAD LOAD.	10 psf.
TYPE OF CONSTRUCTION.	VB
OCCUPANCY USE GROUP.	SUITABLE FOR USE WITH E OR B CLASSROOMS
APPROVED FOR FLOOD ZONE USAGE:	NO FLOOD ZONE INDICATED
PERMISSIBLE GAS (for equip.)	N/A
NAME AND DATE OF CODES:	

LA: 2015 IBC, 2015 IPC, 2015 IMC, 2014 NEC,
2015 IFGC, NFPA 101-2015, 2010 ADAAG,
ASHRAE 90.1-2007

SYSTEMS COMPLETED AT FACTORY:
STRUCTURAL (X) ELECTRICAL (X) PLUMBING (X) HVAC (X)

SPECIAL CONDITIONS/LIMITATIONS: 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.

HEATING EQUIP. MFG.
HEATING MODEL
SEISMIC DESIGN CATEGORY. C

NOTE: DATA PLATE TO BE LOCATED ON PANEL BOX DOOR OR SHALL BE PLACED ON THE INTERIOR SIDE OF THE EXTERIOR WALL @ THE HITCH END ABOVE THE T-GRID LOCATION.

DRAWING INDEX

SHEET 1:	MOD POD A&B, C&D, E, F&G SPECIFICATIONS AND CONDITIONS
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SHEET 3:	MOD POD A&B, C&D, E, F&G ELECTRICAL PLAN, ELECTRICAL, LEGEND, ELECTRICAL CALCS AND ELECTRICAL NOTES
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SHEET 13:	SUGGESTED BLKG PLAN (12 CLASSROOMS)



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DEALER: MOBILE MODULAR MANAGEMENT HOUSTON

PROJECT: VARIABLE UNIT COMPLEX

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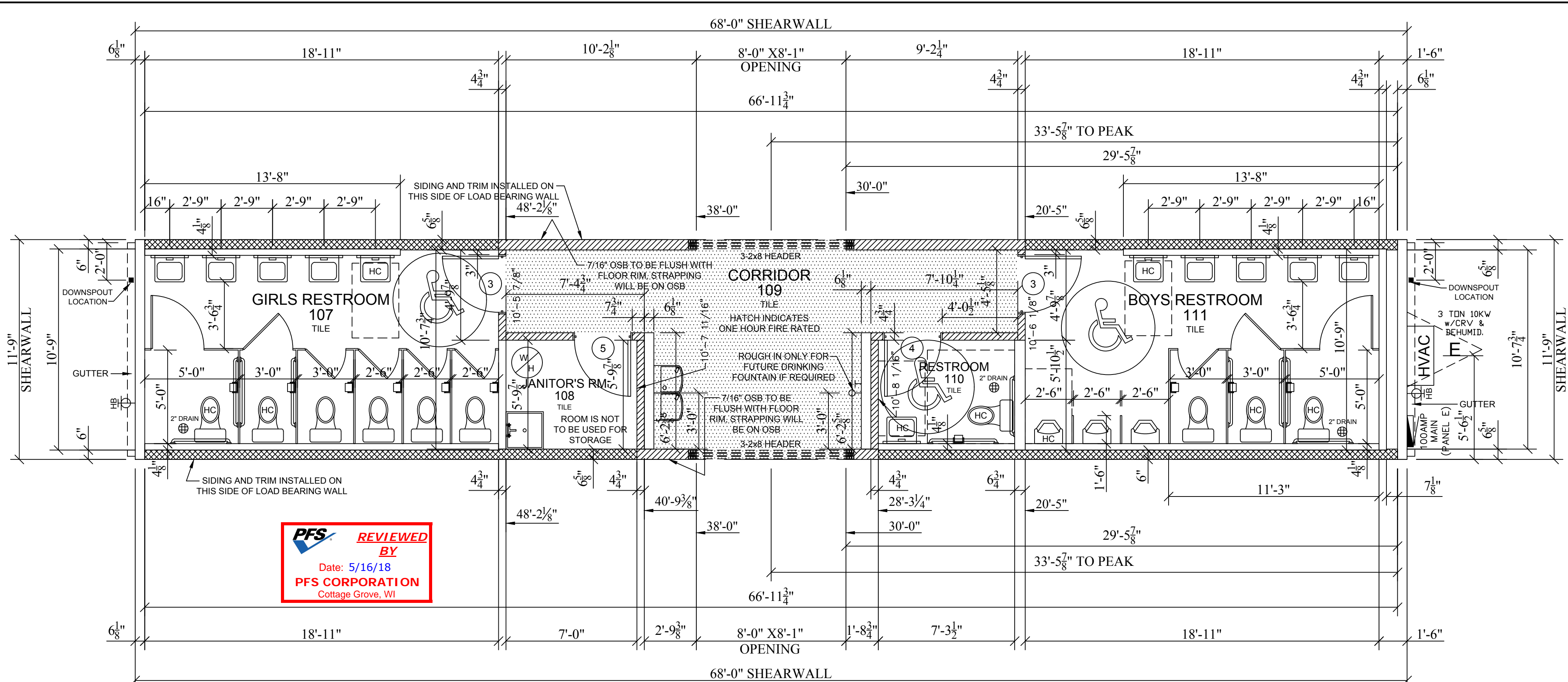
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REVISIONS:

SHEET:

1 OF 13

John L. Whitaker

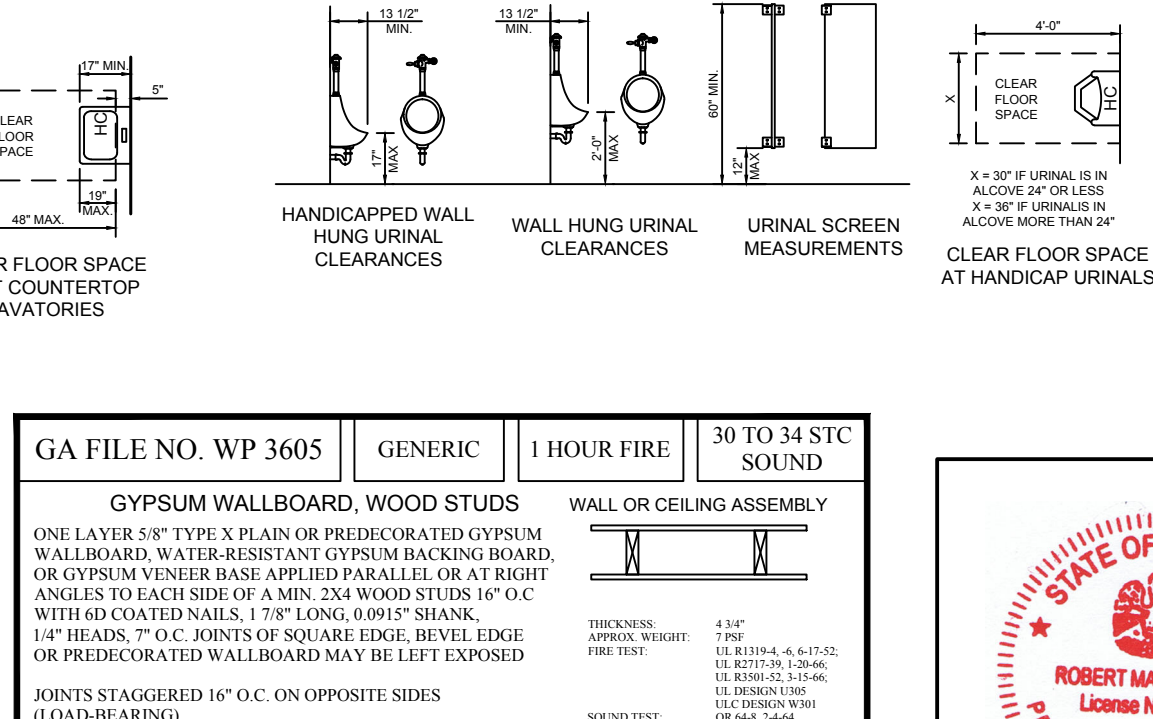
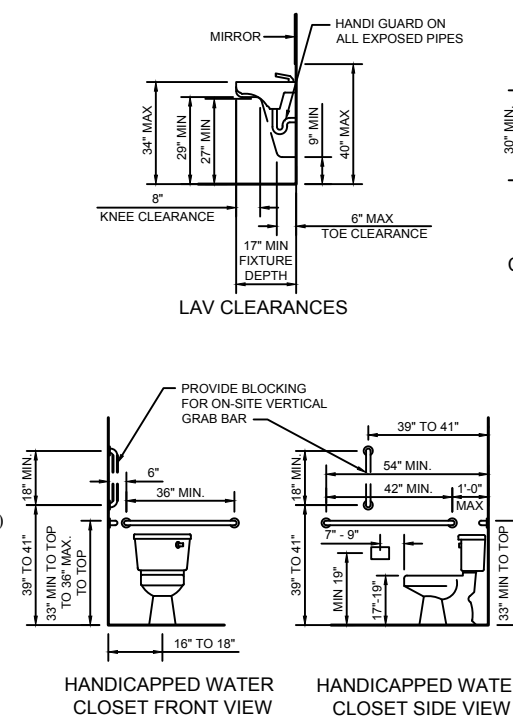
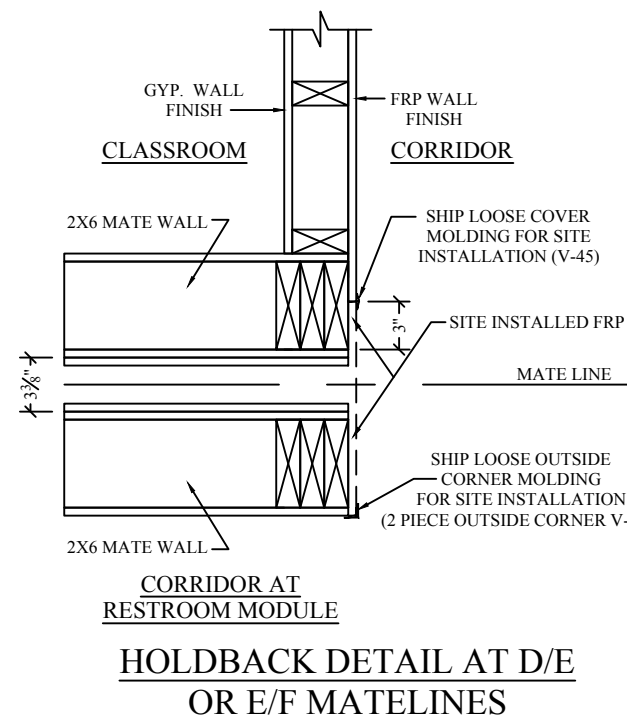


1 FLOOR PLAN 'E' UNIT
1/4"=1'-0" SQUARE FOOTAGE - 799 S.F.
OCCUPANT LOAD - 8

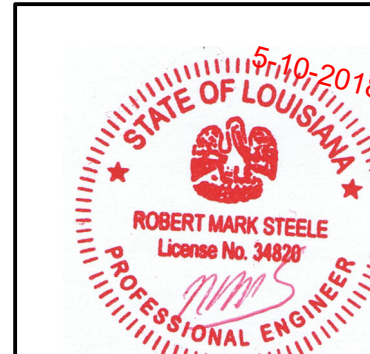
NOTE: THIS PLAN MAY BE BUILT
AS A MIRROR IMAGE

FLOOR PLAN LEGEND	
	INDICATES 1 HOUR FIRE RATED (WP3605) FULL HEIGHT WALL
	INDICATES FULL HEIGHT LOAD BEARING WALL TO BOTTOM OF RAFTERS
	HANDICAP ELONGATED TANK TYPE WATER CLOSET WITH SHUT OFF VALVE
	ELONGATED TANK TYPE WATER CLOSET WITH SHUT OFF VALVE
	36" GRAB BAR
	42" GRAB BAR
	TOILET PAPER DISPENSER
	LAVATORY 19" X 17" WHITE VITREOUS WALL HUNG W/ADA HANDLES
	24" X 24" MOLDED MDP BASIN WITH WALL MOUNTED FAUCET
	WALL HUNG SPLIT-LEVEL HANDICAP REFRIGERATED WATER COOLER W/APRON
	WALL HUNG WHITE VITREOUS WITH COMMERCIAL GRADE FLUSH VALVE
	MODESTY PARTITIONS OR URINAL SCREEN
	FROST PROOF HOSE BIBB WITH BACK FLOW PREVENTER
	20 GALLON ELECTRIC WATER HEATER W/VACUUM RELIEF AND DRAIN PAN

FASTENING SCHEDULE		
LOCATIONS	TYPE	FASTENING
SIDEWALLS (SHEARWALLS)	7/16" OSB	(2 3/8"x0.113" DIA. NAL) @ 6" O.C. AT STUDS AND 6" O.C. AT INTERMEDIATE STUDS
ENDWALLS (SHEARWALLS)	7/16" OSB	(2 3/8"x0.113" DIA. NAL) @ 3" O.C. AT STUDS AND 6" O.C. AT INTERMEDIATE STUDS
SIDEWALL AT ENDWALLS (SHEARWALLS)	7/16" OSB	(2 3/8"x0.113" DIA. NAL) @ 6" O.C. AT STUDS AND 6" O.C. AT INTERMEDIATE STUDS
ROOF DECKING	7/16" FR DECK	(UNBLOCKED ROOF) (2 3/8"x0.113" DIA. NAL) @ 6" O.C. AT SUPPORTED EDGES AND 6" O.C. AT INTERMEDIATE RAFTERS
SIDING (SIDEWALLS)	7/16" LP STUCCO PANEL VERTICAL SDNG	(2 1/4"x0.099" DIA. NAL) @ 6" O.C. AT STUDS AND 6" O.C. AT INTERMEDIATE STUDS
SIDING (ENDWALLS)	7/16" LP STUCCO PANEL VERTICAL SDNG	(2 1/4"x0.099" DIA. NAL) @ 6" O.C. AT STUDS AND 6" O.C. AT INTERMEDIATE STUDS



GA FILE NO. WP 3605	GENERIC	1 HOUR FIRE	30 TO 34 STC SOUND
GYPSUM WALLBOARD, WOOD STUDS			
ONE LAYER 5/8" TYPE X PLAIN OR PREDECORATED 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 16" O.C. WITH 6D COATED NAILS, 1-7/8" LONG, 0.0915" SHANK, 1/4" HEADS, 7" O.C. JOINTS OF SQUARE EDGE, BEVEL EDGE OR PREDECORATED WALLBOARD MAY BE LEFT EXPOSED			
JOINTS STAGGERED 16" O.C. ON OPPOSITE SIDES (LOAD-BEARING)			



REF: 2009 IBC SECTION 709 (FIRE PARTITION)

Door Schedule											
Qty	NO.	Type	Jamb	Glazing	Size	Color	Closer	Deadbolt	Hardware	Fire Rating	Notes
2	3	IMPERIAL OAK PREFINISHED SOLID CORE	WITH METAL JAMB	NONE	36 x 80	N/A	HYDRAULIC CLOSER (12641)	NONE	PASSAGE LEVER, TELL BRAND, GRADE 2 (LC2475CTL)	20 MINUTE LABEL	FLOOR MOUNT STOPS WITH DOOR SWEEPS AND SMOKE SEALS
1	4	IMPERIAL OAK PREFINISHED SOLID CORE	WITH METAL JAMB	NONE	36 x 80	N/A	HYDRAULIC CLOSER (12641)	NONE	PRIVACY LEVER, TELL BRAND, GRADE 2 (LC2476CTL)	20 MINUTE LABEL	FLOOR MOUNT STOPS WITH DOOR SWEEPS AND SMOKE SEALS
1	5	IMPERIAL OAK PREFINISHED SOLID CORE	WITH METAL JAMB	NONE	36 x 80	N/A	HYDRAULIC CLOSER (12641)	NONE	LEVER LOCKSET, TELL BRAND, GRADE 2 (LC2481CTL)	20 MINUTE LABEL	FLOOR MOUNT STOPS WITH DOOR SWEEPS AND SMOKE SEALS

CLASSROOM FUNCTION LOCKS TO BE KEYED
SEPARATE AND ALSO KEYED TO MMMC MASTER

INDICOM BUILDINGS, INC.
INDUSTRIALIZED COMMERCIAL BUILDINGS
721 N. BURLESON BLVD - BURLESON, TX 76028
817-447-1213 FAX 817-447-2751

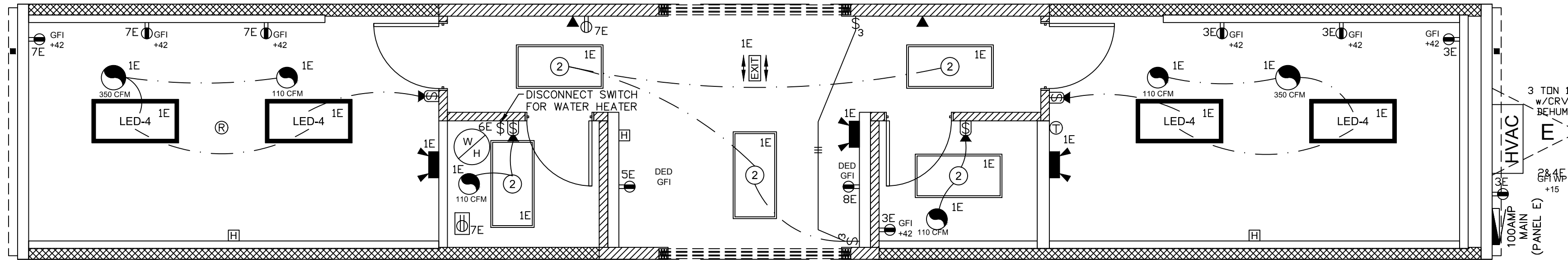
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DEALER: MOBILE MODULAR MANAGEMENT
HOUSTON
PROJECT: VARIABLE UNIT COMPLEX
MOD POD
PROJECT NUMBER: _____

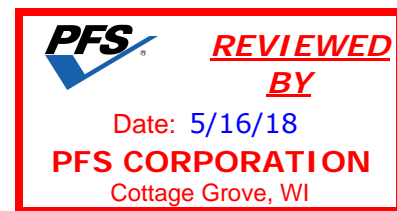
SCALE: AS NOTED
PLOT DATE:
5/9/2018
SALESMAN: RP
DRAWN BY: ----
STATES:
TXLAOKAR
SERIAL NUMBERS:

REVISIONS:

SHEET:
2 OF 13



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



HVAC LEGEND	
HVAC	BARO HVAC UNIT WITH ELECTRIC HEAT STRIP (SEE HVAC PLAN FOR SIZES)
	FLEX DUCT
	24X24 4-WAY LAY-IN DIFFUSER W/ R-42 RADIAL DAMPER
	24X24 PERFORATED LAY-IN R/A GRILLE

125 AMP 120/240 1 PHASE									
PANEL WITH		100 AMP MAIN BREAKER (NEMA 3R)		Description					
WS	Description	Circuit	BRK	A	B	BRK	Circuit	Description	WS
3	Main Breaker		100	5564		60	2	HVAC Unit 3 Ton w/10KW 60A	6
3	Main Breaker		2		5564	2	4		6
12	Lights	1	20	1300 2000		25	6	20 Gal Water Heater 25A	10
12	GFCI Receptacles	3	20	900 410	410	20	8	DED Receptacle for Drinking Fountain	12
12	DED Receptacle for Drinking Fountain	5	20	410 0		0	10	Space	###
12	GFCI Receptacles	7	20	900 0		0	12	Space	###
			9274		7774		Total		

ELECTRICAL CALCULATION:

GENERAL LIGHTING:

1300 LIGHTS x 125% = 1625 watts

10 RECEPTACLES = 1800 watts

1 HVAC UNITS = 11128 watts

1 WATER HEATER = 2000 watts

1 DRINKING FOUNT. = 820 watts

0 = 0 watts

0 = 0 watts

0 = 0 watts

17373 watts divide by 240volts = 72.39 AMPS TOTAL

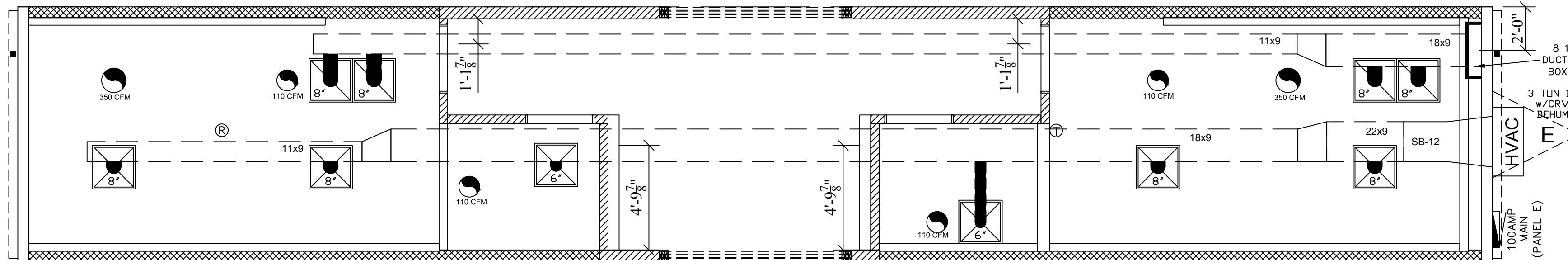
TYPE OF PANEL: LOAD CENTER

PANEL E

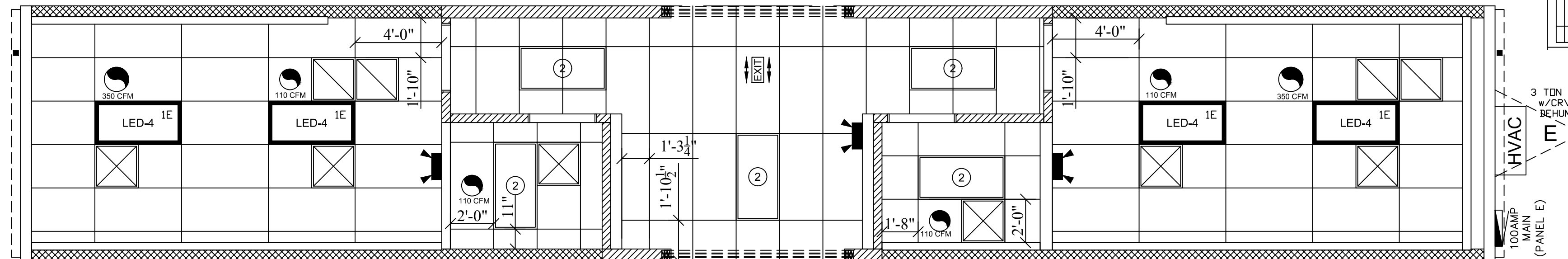
LEGEND E	
	24X4 FLUORESCENT 2 LAMP DIFFUSED LAY-IN LIGHT FIXTURE W/ELECTRONIC BALLAST (INPUT VATTAGE=52)
	24X4 LED (6400 LUMENS) DIFFUSED LAY-IN LIGHT FIXTURE
	LIGHT SWITCH @ 46" AFF
	THREE WAY LIGHT SWITCH @ 46" AFF
	INTERIOR DOUBLE HEAD BATTERY PACK
	SINGLE PHASE PANEL BOX (EXTERIOR MOUNT) SEE PLANS AND PANEL SCHEDULES FOR SIZES (20" AFF)
	20a/125v DUPLEX RECEPTACLE @ 15" AFF
	20a/125v GFCI 'WR' RATED EXT. RECEPTACLE W/WEATHERPROOF 'EXTRA DUTY IN USE' COVER @ 15" AFF
	4X4 J-BOX WITH SINGLE GANG MUD RING AND 3/4" CONDUIT STUBBED ABOVE T-GRID FOR PHONE/DATA JACK BY OTHERS @ 15" AFF
	PROGRAMMABLE THERMOSTAT WITH LOCKING COVER MOUNTED @ 48" AFF TO CENTER
	THERMOSTAT REMOTE SENSOR MOUNTED IN CEILING
	EMPTY 4X4 J-BOX WITH 2-GANG MUD RING 80" AFF TO BOTTOM WITH 3/4" CONDUIT STUBBED UP FOR HORN STROBE BY ALARM PROVIDER
	24X J-BOX ABOVE T-GRID FOR FUTURE USE
	OCCUPANCY SENSORS SWITCH @ 46" AFF
	115V BATTERY BACKUP
	INTERIOR DOUBLE HEAD BATTERY PACK
	180 & 350 CFM EXHAUST FAN
	20a/125v GFCI PROTECTED DUPLEX RECEPTACLE
	20a/125v GFCI PROTECTED 'WR' RATED WEATHERPROOF HEAT TAPE RECEPTACLE BELOW UNIT

NOTE: ALL AFF DIMENSIONS ARE TO THE BOTTOM OF THE DEVICE BOX UNLESS NOTED 'TO CENTER'

RUN EXHAUST FAN VENTS TOWARDS THE ENDWALLS TO AVOID TALLER SHIPPING HEIGHTS

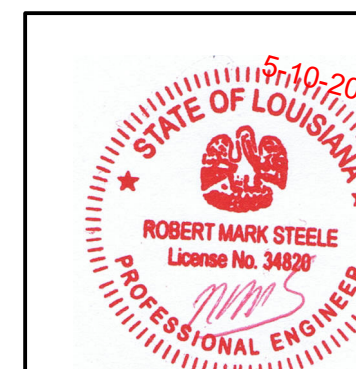


2 HVAC PLAN 'E' UNIT
1/4"=1'-0"



3 REFLECTED CEILING PLAN 'E' UNIT
1/4"=1'-0"

CEILING LEGEND	
	INDICATES T-GRID SUSPENDED CEILING INSTALLED @ FACTORY



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DEALER: MOBILE MODULAR MANAGEMENT
HOUSTON
PROJECT: VARIABLE UNIT COMPLEX
MOD POD
PROJECT NUMBER: _____

SCALE: AS NOTED
PLOT DATE: 5/9/2018
SALESMAN: RP
DRAWN BY: ----
STATES: TX/LAOKAR
SERIAL NUMBERS: ----
REVISIONS: _____

SHEET: 3 OF 13

NOTES:
1. SITE PLAN NOT AVAILABLE AT THIS TIME. BUILDING DESIGNED TO HAVE FIRE SEPARATION DISTANCE GREATER THAN 10 FT. IN ACCORDANCE WITH TABLE 602 OF THE IBC.
2. PORCHES, STEPS, AND RAMPS TO BE SUPPLIED AND INSTALLED BY OTHERS IN ACCORDANCE WITH THE IBC.
3. PORTABLE FIRE EXTINGUISHERS TO BE SUPPLIED AND INSTALLED ON SITE BY OWNER IN ACCORDANCE WITH SECTION 906 OF THE 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 MANAGEMENT TO SITE CONSTRUCT DRAFT STOP IN ACCORDANCE WITH THE IBC WHERE REQUIRED.

MOBILE MODULAR MANAGEMENT MOD POD 'F & G' VARIABLE UNIT COMPLEX

THE FOLLOWING UNITS ARE TO BE CONSTRUCTED INDIVIDUALLY BY THE FACTORY:
"A&B" UNIT-OUTSIDE UNIT W/TWO CLASSROOMS "C&D" UNIT-MIDDLE UNIT W/TWO CLASSROOMS
"E" UNIT-MIDDLE UNIT W/RESTROOMS "F&G" UNIT-OUTSIDE UNIT W/TWO CLASSROOMS

NOTE: FOR A TYPE VB GROUP B OR E BUILDING THE MAXIMUM SQUARE FOOTAGE ANY COMBINATION OF UNITS SHALL BE 9,000 SQ. FT. ADDITIONAL SITE INSTALLED EGRESS ELEMENTS MAY BE NECESSARY DEPENDING UPON THE LAYOUT AND CONFIGURATION. AREA INCREASE CALCULATION PROVIDED FOR CONFIGURATIONS EXCEEDING 9,000 SQ. FT. ON CONFIGURATION SHEET.

ADDITIONAL NOTE FOR CONFIGURATIONS: MOD POD UNITS ARE DESIGNED TO BE MANUFACTURED INDIVIDUALLY. MODULES ARE DESIGNED TO ALLOW SEVERAL DIFFERENT COMPLEX CONFIGURATIONS IN THE FIELD WITH A MINIMUM OF 7 UNITS (6 CLASSROOMS) AND A MAXIMUM OF 13 UNITS (12 CLASSROOMS). NO MORE THAN 8 MODULES BETWEEN SIDEWALL SHEARWALLS OR FULL HEIGHT BEARING WALL SHEARWALLS. CONFIGURATIONS OF ANY COMPLEX SHALL NOT EXCEED SQUARE FOOTAGE LIMITATIONS SET FORTH IN "TABLE 503" (use group B or E, type VB) OF THE 2015 Ed. IBC AND NFPA 101-2015. EGRESS REQUIREMENTS MUST BE MET IN ALL CONFIGURATIONS IN ACCORDANCE WITH CHAPTER 10 OF THE 2015 Ed. OF THE IBC AND NFPA 101-2015. THE MINIMUM REQUIRED PLUMBING FIXTURES MUST BE OBTAINABLE IN ALL CONFIGURATIONS ACCORDING TO THE 2015 Ed. IPC W/ AMENDMENTS.

General Construction Specifications (MODULES F & G)

Frame Construction:

Frame Type: Outrigger
Quantity: (2) EA
Size: 126812
Type: Outrigger and crossmember @ 48 in. O.C.
Main beams to be 99 1/2 in. O.C.
Beam Size: 12 1/2 in. Jr. I-beam
Axes: Five 6000# rated with (3) brake (2) tag
Hitch: Detachable underslung
Tires: 8x14.5 14 ply rated

Additional Frame Items Included in Quoted Price:

Item 1: 2 EA. tail lights.

Floor Construction:

Floor Joist: 2x8 #2 SYP equal or better
Framing: Transverse
Joist: 16 in. O.C.
Floor: Single layer 3/4 in. Advantech decking. Attach using liquid nails adhesive and 2 3/8" x .113" ring shank nails. (Ship loose 5/8 in. filler and Armstrong S-194) fast setting patch. Hold back decking (2.1/4) inches at each side of mateline.
Insulation: R-30 unfaced fiberglass batt (2-layers of R-13)
Bottom: Mobilflex or equal

Floor Covering Type 1

1/8in. commercial grade tile. Tile to be checkerboard and 50% offset at Corridor and Classrooms. Hold back tile (11 1/2" @ Modules F & G matelines) (8 1/2" @ Module G exterior sidewall and module F load bearing wall). Color to be: (51858 SANDRIFT WHITE)

Additional Floor Items Included in Quoted Price:

Item 1: All outer perimeter rails to be treated lumber and Fortifiber moist stop PF at all perimeter rails 12 in. up from bottom of rails.

Exterior Wall Construction:

Framing: 2x6 #2 SYP equal or better @ 16 in. O.C. w/double 2x6 #2 SYP equal or better top plate and single 2x6 #2 SYP or better bottom plate. (3-2x6 header with (2) 1/2 in. shim at all exterior openings unless otherwise noted)
7/16 in. OSB on entire perimeter
Wall Sheathing: R-21 Kraft back fiberglass batt.
Insulation: 7/16 in. LP Stucco panel vertical siding w/house wrap underlayment
Siding Type: Siding body color: (LIGHT STONE - KWAL SEMI GLOSS)
6 in. corner trim color: (CAMEL - KWAL SEMI GLOSS)
4 in. door & window trim color: (CAMEL - KWAL SEMI GLOSS)
8 in. bottom trim color: (LIGHT STONE - KWAL SEMI GLOSS)
4 in. intermediate horizontal trim color: (LIGHT STONE - KWAL SEMI GLOSS)
8 in top horizontal trim color: (CAMEL - KWAL SEMI GLOSS)
Covering height: 9 ft.
Wall Covering 1: 5/8 in. Type-X vinyl covered gypsum with wrapped battens. Color to be: (HAMPTON GRAY)
Wall Covering 2: Standard White FRP panels pre-laminated over 5/8 in. Type-X gypsum board @ Corridor. (Use V-45 trim and V-121 inside corner trim)
Sidewall Height: See cross section for heights

Additional Exterior Wall Items Included in Quoted Price:

Item 1: Siding and trim installed on full height load bearing wall on module F.
Item 2: Kwal paint custom colors.
Item 3: No holdback on exterior top trim - holdback splice and bottom trim 3 3/4 in. from each side of mateline.
Item 4: Ship loose 8 in. LP trim for exterior matelines.

Interior Wall Construction:

Framing: 2x4 #2 SYP equal or better @ 16 in. o.c. w/double 2x4 #2 SYP equal or better top plate and single 2x4 #2 SYP or better bottom plate
Overall height: 8 ft.

Insulation: R-11 unfaced battens for sound attenuation @ all walls
Wall Covering 1: 5/8 in. Type-X vinyl covered gypsum with wrapped battens. Color to be: (HAMPTON GRAY) Covering height: 8 ft.
Wall Covering 2: Standard White FRP panels prelaminated over 5/8 in. gypsum board @ Corridor. (Use V-45 trim)
Covering height: 8 ft.
Base Trim: 4 in. vinyl cove. Color to be: (CB-67 DOVE GRAY) (holdback base cove)
Trim Package: Interior trim color to be: (HAMPTON GRAY)
Inside corners: 4 in. tri-mold VC batten
Outside corners: 4 in. tri-mold VC batten
Window trim: color to be: (4993-1695 GRAY)
Hold back of gypsum and FRP at matelines. (see holdback details on sheet 2)

Additional Interior Wall Items Included in Quoted Price:

Item 1: Corridor walls are extended to the bottom of rafters and are one hour fire rated.
Item 2: 68 LF of mateline wall to be 2x6 with R-21 kraft back insulation and 7/16 in. OSB sheathing.

Roof Construction:

Design Load: 20 p.s.f live load
Roof Type: Transverse ridge
Rafter size: 2x8 #2 SYP equal or better
Spacing: 16 in. O.C.
Mate Beam: Multi-layer laminated plywood
Height: 24 in. to 32 1/2 in. to 24 in.
Length: 68 ft.
No. of Layers: 3
No. of Beams: 2
Ceiling: 1870 SF 2 ft. x 4 ft. @ 7"-10" (Armstrong Prelude XL White T-Grid with Armstrong #2910 tiles) installed at factory, held back at matelines. Completion of ceiling installation on-site by MMC; not in Indicom's scope.
Insulation: R-38HD unfaced fiberglass batt with support netting (2-layers of R-15 at fire rated Corridor)
Sheathing: 7/16 in. Mulehide Class C FR Deck
Roofing: 45 mil WHITE single ply EPDM (material warranty certificate)

Additional Roof Items Included in Quoted Price:

Item 1: 2x4 horizontal fire rated ceiling at Corridor with 5/8 in. Type-X gypsum board installed on both sides of horizontal ceiling.
Item 2: Triple 2x8 header with 1/2 in. CDX plywood spacer at 8'-1" at mateline Corridor opening.
Item 3: Corridor matebeams will be wrapped with 1-layer of 5/8 in. Type-X gypsum and taped only below horizontal fire rated ceiling. Completion of the bottom of matebeams to be on-site by MMC.
Item 4: Draft stop if required on-site by MMC.
Item 5: 11'-5" long aluminum 5 in. gutters with end caps on each end of module stopped 2 in. from sidewall and matelines color to be: (CAMEL - KWAL SEMI GLOSS). (1) aluminum downspout per end color to be: (LIGHT STONE - KWAL SEMI GLOSS).
Item 6: Roofing to fold over matelines and exterior side wall side approx. 5 in. with tapered 2x4. Ship loose 12 in. mateline tape for matelines.

Exterior/Interior Doors: (SEE DOOR SCHEDULE)

Windows: (SEE WINDOW SCHEDULE)

Electrical Schedule			
Type	Qty	Note	Description
ELEC SERVICE	1		120/240V, 60 HZ, SINGLE PHASE
ELEC PANEL	2	125 AMP	1 PH W/125 MAIN BREAKER, EXTERIOR MOUNT NEMA 3R (OUTLER HAMMER) (20 IN. TO THE BOTTOM OF PANEL)
ELEC RACEWAY	1		E.M.T. THIN WALL CONDUIT WITH SEPARATE GREEN GROUND
LIGHTS	1		COMPACT FLUORESCENT EXTERIOR WITH PHOTOCELL
LIGHTS	12	(4000 LUMENS)	48 IN. DIFFUSED LED RECESSED LAY-IN (LITHONIA 20TL4 40L LP840)
LIGHTS	2	2-LAMPS	48 IN. DIFFUSED FLUORESCENT RECESSED LAY-IN WITH ELECTRONIC BALLAST & T-8 LAMPS
EXIT SIGN	1		115V WITH BATTERY BACKUP
EMERG. LIGHT	1		EXTERIOR REMOTE HEAD
EMERG. LIGHT	1	WITH REMOTE	INTERIOR DOUBLE HEAD BATTERY PACK
RECEPTACLE	1		20A/125V GFI PROTECTED WITH WEATHERPROOF IN-USE COVER
RECEPTACLE	17		20A/125V DUPLEX
RECEPTACLE	2		20A/125V CEILING RECEPTACLE (WHITE)
PHONE/COMM.	6	3/4 IN.	4X4 J-BOX WITH SINGLE GANG MUD RING STUBBED ABOVE CEILING AND DOWN BELOW FLOOR WITH EMT CONDUIT
J-BOX	1		EMPTY 4X4 J-BOX AND A SINGLE GANG MUD RING STUBBED UP ABOVE T-GRID AT EXTERIOR FOR ON-SITE CARD READER
J-BOX	1		POWERED 4X4 J-BOX ABOVE T-GRID FOR ON-SITE CARD READER
J-BOX	4		J-BOX ABOVE T-GRID FOR FIELD CROSSOVER CONNECTIONS (PLUG-IN CONNECTORS)
J-BOX	3		4X4 EMPTY J-BOX WITH 2 GANG MUD RING STUBBED UP FOR HORN-STROBE BY OTHERS
J-BOX	1		EMPTY J-BOX STUBBED UP FOR PULL STATION BY OTHERS
J-BOX	6		POWERED J-BOX ABOVE T-GRID FOR FUTURE USE
J-BOX	2		POWERED J-BOX ABOVE T-GRID FOR FIRE/SMOKE DAMPERS
OCCUPANCY SENSOR	2		CEILING MOUNTED OCCUPANCY SENSOR (WATTSTOPPER CI-305 W/ B250 POWER PAK)
DEVICE COLOR	1		COLOR TO BE: (WHITE)

Additional Electrical Items Included in Quoted Price:

Item 1: All ceiling lights are supported at all 4 corners with wires.
Item 2: (2) spare 3/4 in. conduits from each panel to above ceiling terminating in J-box.

PLUMBING: NONE

HVAC Schedule			
Type	Qty	Note	Description
HVAC UNIT TYPE	2	3 TON COOLING WITH 10-KW ELECTRIC	END MOUNT UNIT WITH ERY AND DEHUMIDIFICATION (MODEL BARD - W36AATORP) (EXTEND CONDENSATE TO BELOW BOTTOM TRIM) COLOR TO BE: (BEIGE)
T-STAT	2		PROGRAMMABLE T-STAT(S) (BARD COMPLETESTAT -CS9B-TH0) WITH LOCKING COVERS (BEKO - BT0UK2)
HEAT DUCT	1	11x9, 18x9, 22x9 AND 30x9	FOIL FACED FIBERGLASS, 1-1/2 IN. THICK
SUPPLY BOOT	2	SB-12	FIRST 4 FT. TO BE METAL WITH INSULATION WRAP
DIFFUSERS	7		24 IN. x 24 IN. 4-WAY LAY-IN WITH ADJUSTABLE DAMPERS
R/A GRILLS	3		24 IN. x 24 IN. PERFORATED LAY-IN
DUCT SYSTEM	1		DUCTED SUPPLY WITH (1) FULLY DUCTED RETURN AND (1) WALL JUMP RETURN AIR TO PLENUM WALL
DAMPERS	2	FIRE/SMOKE	DAMPERS IN THE FIRE RATED AREAS PER PLAN

Additional HVAC Items Included in Quoted Price:

Item 1: 2x2 galvanized or alum. flashing above each HVAC unit (puddy tape on backside edge and edge touching A/C).
Item 2: (2) 8 in. round 90° elbow.

Cabinet:
(2) 4 ft. x 3 ft. Tack Boards
(2) 8 ft. x 4 ft. Marker Boards

Skirting: NONE

State Labels: Third party plan review and state IBC certification to be included

Additional Label Items Included in Quoted Price:

Item 1: Texas & Louisiana label / 20 lb roof load / 2009 IBC - 130 MPH (ASD) EXP. C Oklahoma and Arkansas engineered sealed drawings.

Clarifications/Notes:

Item 1: Fire/smoke dampers are to be connected to owner provided duct detector on-site by others.
Item 2: All required crossovers to be completed on-site by MMC.
Item 3: All mate-line connections to be completed on-site by MMC.
Item 4: All shipping walls installed with 1/4 in. x 3 in. lag screws (no nails allowed).
Item 5: White poly close-up.

DATA PLATE

MANUFACTURE & ADDRESS (FOR WARRANTY INFORMATION): INDICOM BUILDING, INC. 721 N. Burleson Blvd. BURLESON, TX. 76028 IHM - 47 LAIB-MD0002
DRAT AGENCY: PFS Corporation ADDRESS: Cottage Grove, Wl.
SERIAL NO.
DECAL NO.
FIRE MARSHAL PLAN REVIEW NO.
DATE OF MFG.
OCCUPANT LOAD: 65
FLOOR LIVE LOAD: 50 psf. (2000 lb concentrated) (100 psf. @ corridor)
WIND LOAD (V3s): 2015 IBC - 170 MPH (ULT) EXP. C, 132 MPH (ASD) EXP. C, OCCUPANCY CATEGORY II AND III
ROOF LIVE LOAD: 20 psf.
ROOF DEAD LOAD: 10 psf.
TYPE OF CONSTRUCTION: VB
OCCUPANCY USE GROUP: SUITABLE FOR USE WITH E OR B CLASSROOMS
APPROVED FOR FLOOD ZONE USAGE: NO FLOOD ZONE INDICATED
PERMISSIBLE GAS (for equip.): N/A
NAME AND DATE OF CODES:

LA: 2015 IBC, 2015 IPC, 2015 IMC, 2014 NEC, 2015 IFGC, NFPA 101-2015, 2010 ADAAG, ASHRAE 90.1-2007

SYSTEMS COMPLETED AT FACTORY:
STRUCTURAL (X) ELECTRICAL (X) PLUMBING (X) HVAC (X)

SPECIAL CONDITIONS/LIMITATIONS: 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.

HEATING EQUIP. MFG.
HEATING MODEL
SEISMIC DESIGN CATEGORY: C

NOTE: DATA PLATE TO BE LOCATED ON PANEL BOX DOOR OR SHALL BE PLACED ON THE INTERIOR SIDE OF THE EXTERIOR WALL @ THE HITCH END ABOVE THE T-GRID LOCATION.

DRAWING INDEX

SHEET 1: MOD POD A&B, C&D, E, F&G SPECIFICATIONS AND CONDITIONS
SHEET 2: MOD POD A&B, C&D, E, F&G FLOOR PLAN, FLR PLAN LEGEND, PLUMBING SCHEMATICS
SHEET 3: MOD POD A&B, C&D, E, F&G ELECTRICAL PLAN, ELECTRICAL, LEGEND, ELECTRICAL CALCS AND ELECTRICAL NOTES
SHEET 4: MOD POD, C&D, E, F&G HVAC PLAN AND REFLECTED CEILING PLAN
SHEET 5: BLD. CROSS-SECTION, ELEVVS & DETAILS
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SHEET 8: DETAILS
SHEET 9: DETAILS
SHEET 10: SUGGESTED BLKG PLAN (6 CLASSROOMS)
SHEET 11: SUGGESTED BLKG PLAN (8 CLASSROOMS)
SHEET 12: SUGGESTED BLKG PLAN (10 CLASSROOMS)
SHEET 13: SUGGESTED BLKG PLAN (12 CLASSROOMS)



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DEALER: MOBILE MODULAR MANAGEMENT HOUSTON

PROJECT: VARIABLE UNIT COMPLEX MOD POD

PROJECT NUMBER: -----

SCALE: AS NOTED

PLOT DATE: 5/9/2018

SALESMAN: RP

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STATES: TX/LA/OKAR

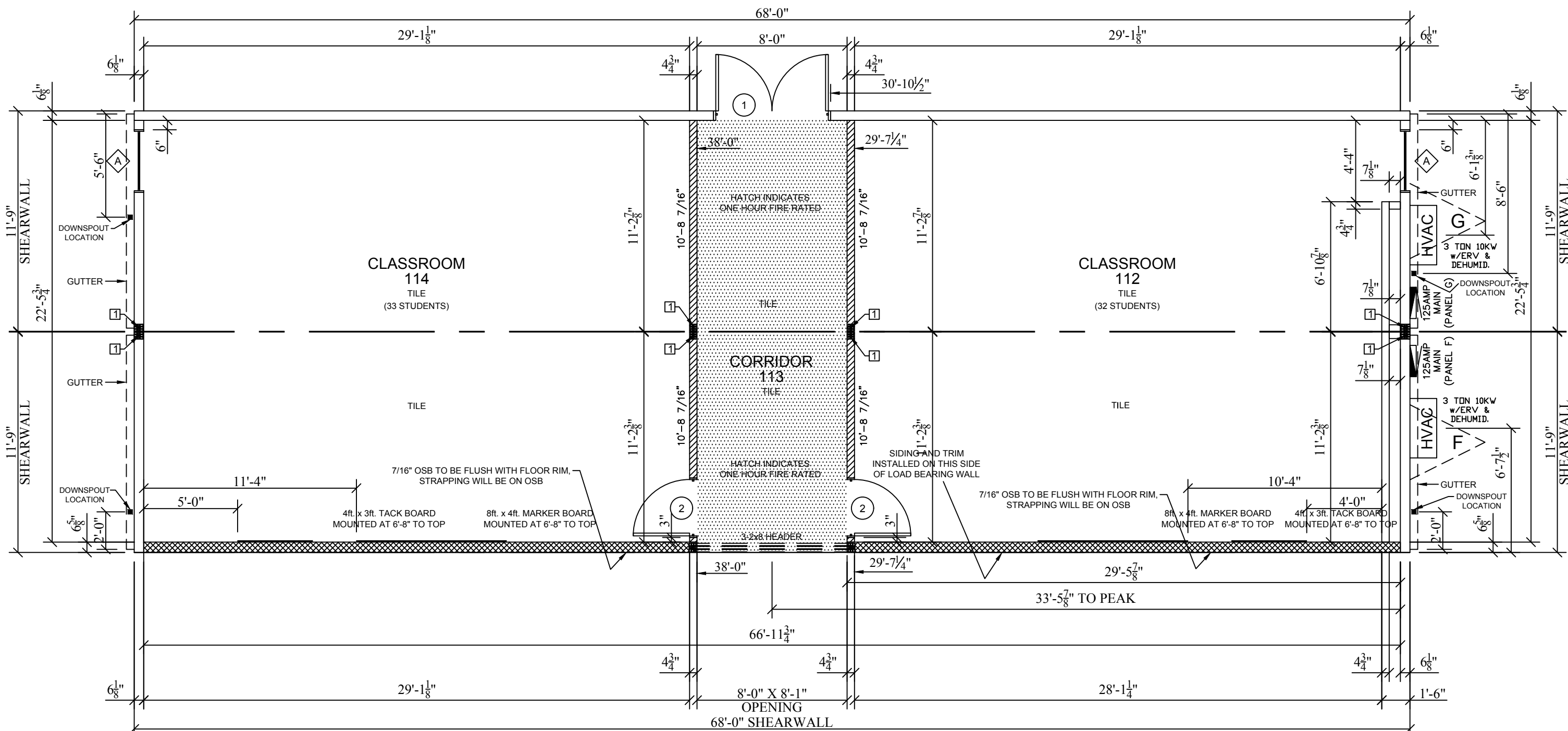
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1 OF 13

John L. Whitaker



1 FLOOR PLAN 'F&G' UNIT
3/16"=1'-0" SQUARE FOOTAGE - 1598 S.F.
OCCUPANT LOAD - 65

NOTE: THIS PLAN MAY BE BUILT AS A MIRROR IMAGE

CLASSROOM FUNCTION LOCKS TO BE KEYED SEPARATE AND ALSO KEYED TO MMMC MASTER

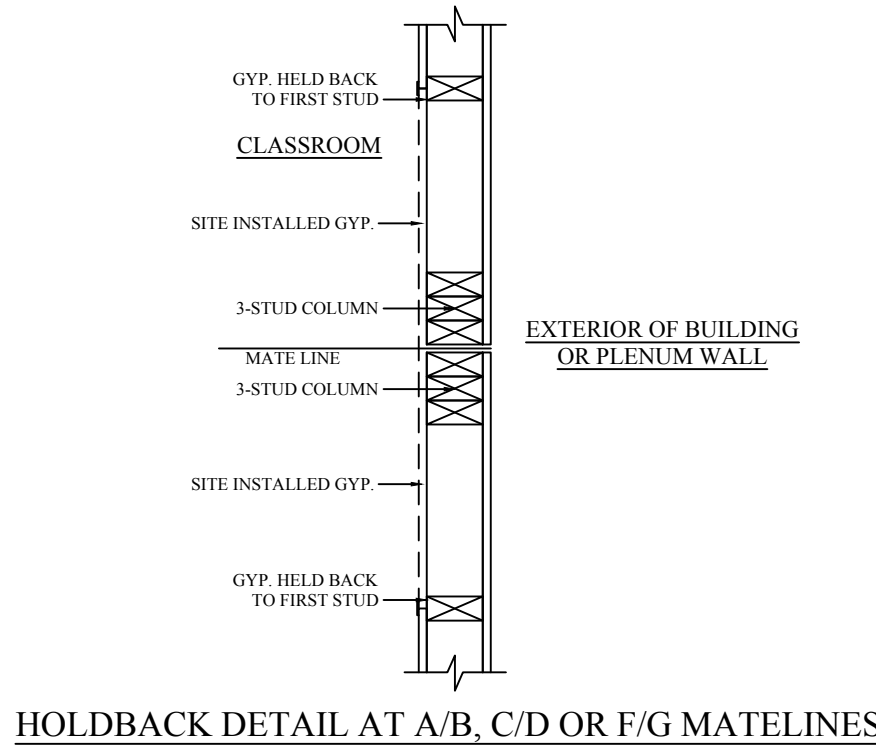
Door Schedule											
Qty	NO.	Type	Jamb	Glazing	Size	Color	Closer	Deadbolt	Hardware	Fire Rating	Notes
1	1	COMMERCIAL DBL. STEEL WITH CENTER MULLION, INSULATED 18 GA.	16 GA.	24x30 HALF LITE WINDOW (BOTTOM OF GLAZING REQUIRED TO BE AT 43" AFF)	72 x 80	COLOR TO BE: (TIOGA BRONZE)	HYDRAULIC CLOSER (12641)	NONE	PANIC HARDWARE, TELL BRAND 9500 WITH KEYED LEVER TRIM	NONE	10 IN. x 34 IN. STAINLESS STEEL KICK PLATES ON BOTH SIDES OF DOOR, MINI-GUTTER INSTALLED ABOVE TOP TRIM, MMM TRIM DETAILS AND PROVIDE 2 KEYS PER LOCK
1	2	IMPERIAL OAK PREFINISHED SOLID CORE	WITH METAL JAMB	7x22 PENCIL WINDOW (20 MINUTE) (BOTTOM OF GLAZING REQUIRED TO BE AT 43" AFF)	36 x 80	N/A	HYDRAULIC CLOSER (12641)	NONE	LEVER LOCKSET, CLASSROOM FUNCTION, TELL BRAND, GRADE 2 (LC2484CTL)	20 MINUTE LABEL	FLOOR MOUNT STOPS WITH DOOR SWEEPS AND SMOKE SEALS

Window Schedule									
Qty	NO.	Type	Glazing	Size	U-Factor	SHGC	Mini-Blind	Notes	
2	A	VINYL VERTICAL SLIDER WITH 28 IN SASH (EGRESS) COLOR TO BE: (CLAY)	CLEAR, DUAL GLAZED, LOW-E WITH ARGON AND TEMPERED GLASS	40"x60"	.33	.22	THIN LINE METAL MINI-BLINDS. COLOR TO BE: (ALABASTER)	WINDOWS INSTALLED WITH 1 5/8" ZINC DECK SCREWS, VINYL COVERED PANELING WINDOW RETURNS, MINI-GUTTERS INSTALLED ABOVE TOP TRIM, WINDOW FLASHING TAPE AT ALL EXT. WINDOWS.	

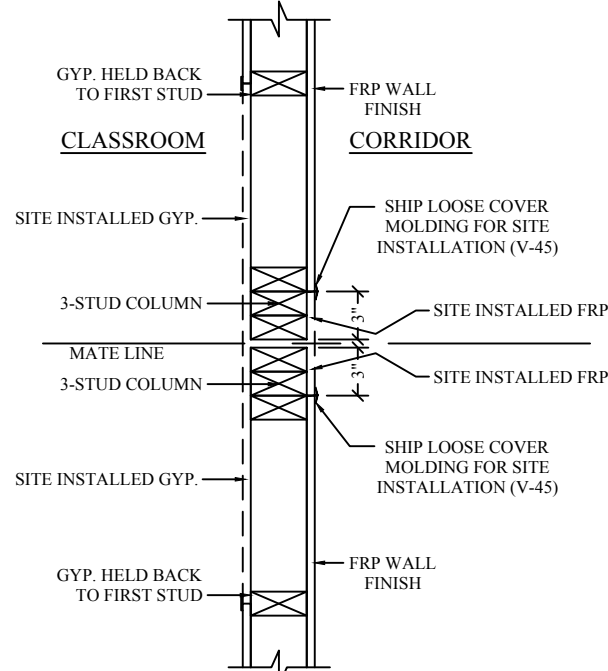
FLOOR PLAN LEGEND	
	INDICATES 1 HOUR FIRE RATED (WP3605) FULL HEIGHT WALL
	INDICATES FULL HEIGHT LOAD BEARING WALL TO BOTTOM OF RAFTERS

GA FILE NO. WP 3605	GENERIC	1 HOUR FIRE	30 TO 34 STC SOUND
GYPSUM WALLBOARD, WOOD STUDS			
ONE LAYER 5/8" TYPE X PLAIN OR PREDECORATED 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 16" O.C. WITH 6D COATED NAILS, 1 7/8" LONG, 0.0915" SHANK, 1/4" HEADS, 7" O.C. JOINTS OF SQUARE EDGE, BEVEL EDGE OR PREDECORATED WALLBOARD MAY BE LEFT EXPOSED			
JOINTS STAGGERED 16" O.C. ON OPPOSITE SIDES (LOAD-BEARING)			
WALL OR CEILING ASSEMBLY			
THICKNESS: 4 3/4" APPROX. WEIGHT: 7 PSF FIRE TEST: UL R119.4, 4, 6-17-52; UL R217.39, 1-20-66; UL R360-23, 3-15-66; UL DESIGN U105 UL DESIGN W901 SOUND TEST: OR 64-8, 2-64			

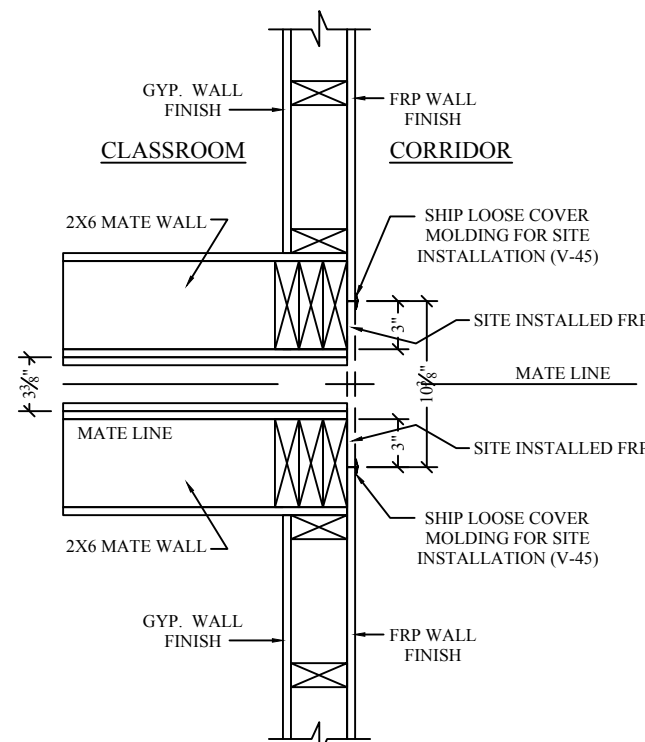
REF: 2009 IBC SECTION 709 (FIRE PARTITION)



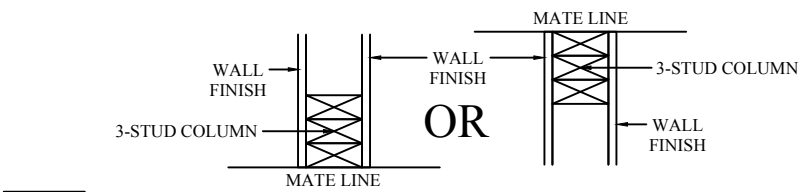
HOLDBACK DETAIL AT A/B, C/D OR F/G MATELINES



HOLDBACK DETAIL AT A/B, C/D OR F/G MATELINES

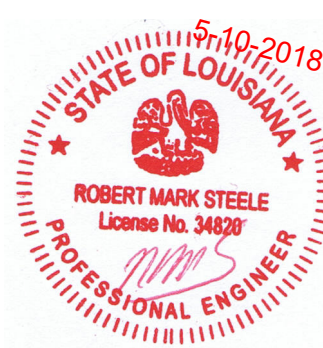


HOLDBACK DETAIL AT B/C OR D/F MATELINES



1 COLUMN
1" = 1'-0"

3-STUD COLUMN CONSTRUCTION:
(3) 2X4 OR (3) 2X6 #2 SYP STUDS ATTACHED TO BEAM AND FLOOR WITH (2) CS16 STRAPS WITH (10) #8 x 2" SCREWS AT EACH END



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PROJECT: VARIABLE UNIT COMPLEX
MOD POD
PROJECT NUMBER: _____

SCALE: AS NOTED

PLOT DATE:
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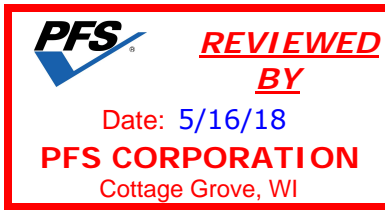
STATES:
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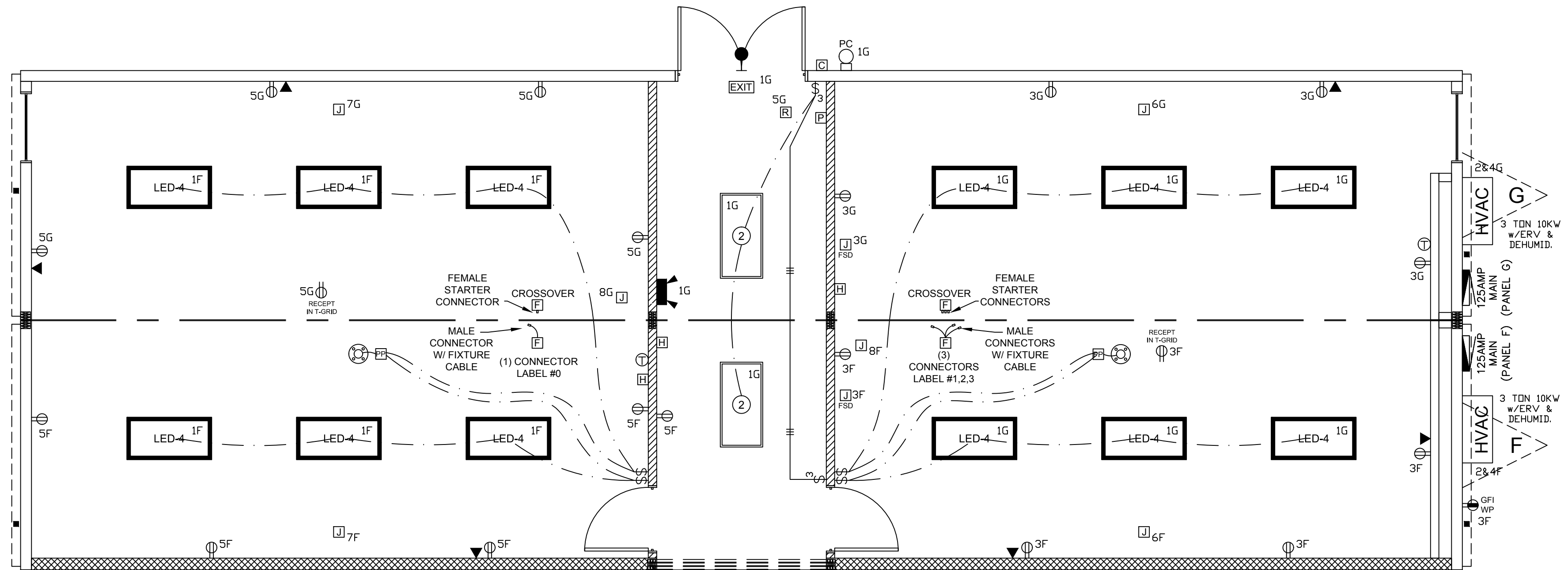
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1 ELECTRICAL PLAN 'F&G' UNIT

1/4"=1'-0"

125 AMP 120/240 1 PHASE									
PANEL WITH 125 AMP MAIN BREAKER (NEMA 3R)									
WS	Description	Circuit	BRK	A	B	BRK	Circuit	Description	WS
1	Main Breaker		125	6670		80	2	HVAC Unit 3 Ton w/10KW 60A	6
1	Main Breaker		2		6670	2	4		6
12	Lights	1	20	360 1800		20	6	Powered J-Box Above T-Grid	12
12	Receptacles	3	20		1080 1800	20	8	Powered J-Box Above T-Grid	12
12	Receptacles	5	20	900 0		0	10	Space	###
12	Powered J-Box Above T-Grid	7	20		1800 0	0	12	Space	###
				9730	11350	Total			
<u>ELECTRICAL CALCULATION:</u>									
GENERAL LIGHTING:									
360 LIGHTS x 125% = 450 watts									
11 RECEPTACLES = 1980 watts									
1 HVAC UNITS = 13340 watts									
3 PWRD J-BOXES = 5400 watts									
0 = 0 watts									
0 = 0 watts									
0 = 0 watts									
0 = 0 watts									
21170 watts divide by 240volts = 88.21 AMPS TOTAL									
TYPE OF PANEL: LOAD CENTER									

125 AMP 120/240 1 PHASE									
PANEL WITH 125 AMP MAIN BREAKER (NEMA 3R)									
WS	Description	Circuit	BRK	A	B	BRK	Circuit	Description	WS
1	Main Breaker		125	6670		80	2	HVAC Unit 3 Ton w/10KW 60A	6
1	Main Breaker		2		6670	2	4		6
12	Lights	1	20	517 1800		20	6	Powered J-Box Above T-Grid	12
12	Receptacles	3	20		720 1800	20	8	Powered J-Box Above T-Grid	12
12	Receptacles	5	20	1080 0		0	10	Space	###
12	Powered J-Box Above T-Grid	7	20		1800 0	0	12	Space	###
				10067	10990	Total			

ELECTRICAL CALCULATION:

GENERAL LIGHTING:

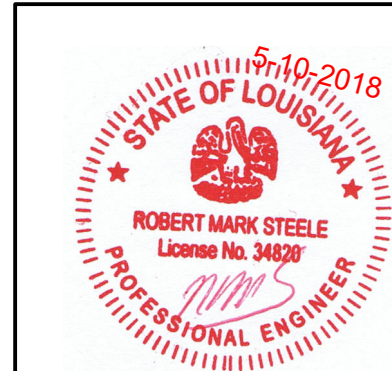
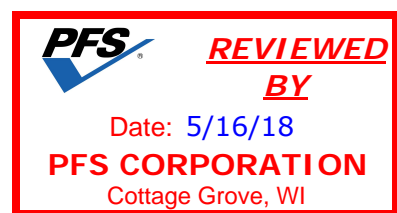
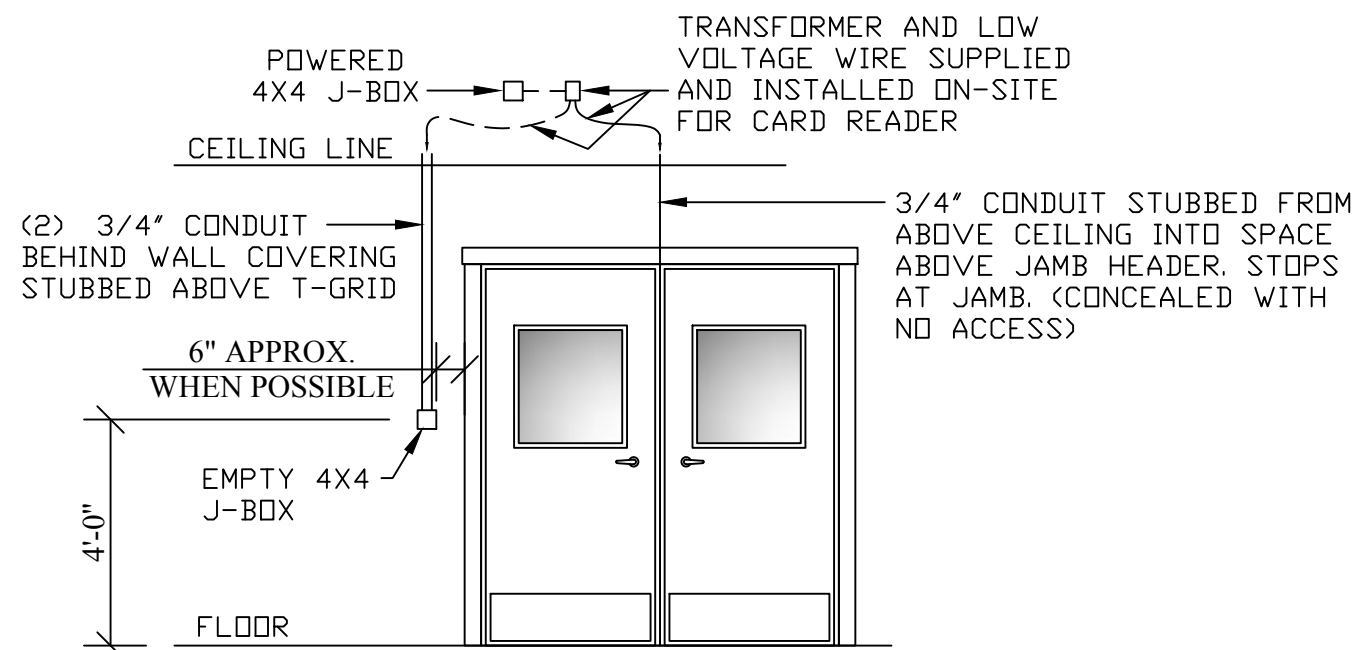
517 LIGHTS x 125%	=	646.3 watts
10 RECEPTACLES	=	1800 watts
1 HVAC UNITS	=	13340 watts
3 PWRD J-BOXES	=	5400 watts
0	=	0 watts
0	=	0 watts
0	=	0 watts
0	=	0 watts

21186 watts divide by 240volts = 88.28 AMPS TOTAL

PANEL G

TYPE OF PANEL: LOAD CENTER

LEGEND A/B & F/G	
②	2X4 FLUORESCENT 2 LAMP DIFFUSED LAY-IN LIGHT FIXTURE w/ELECTRONIC BALLAST (INPUT WATTAGE=52)
LED-4	2X4 LED (6400 LUMENS) DIFFUSED LAY-IN LIGHT FIXTURE
PC	COMPACT FLUORESCENT EXTERIOR LIGHT WITH PHOTOCELL (INPUT WATTAGE = 13)
\$	LIGHT SWITCH @ 46" AFF
\$3	THREE WAY LIGHT SWITCH @ 46" AFF
Ⓢ	CEILING OCCUPANCY SENSORS WITH POWER PACK MOUNTED AT DROP CEILING
EXIT	BATTERY BACKUP EXIT SIGN
Ⓢ	INTERIOR DOUBLE HEAD BATTERY PACK WITH REMOTE
Ⓢ	EXTERIOR REMOTE HEAD EMERGENCY LIGHT
Ⓢ	SINGLE PHASE PANEL BOX (EXTERIOR MOUNT) SEE PLANS AND PANEL SCHEDULES FOR SIZES (20" AFF)
Ⓢ	20a/125v DUPLEX RECEPTACLE @ 15" AFF
Ⓢ	20a/125v GFCI 'WR' RATED EXT. RECEPTACLE w/WEATHERPROOF "EXTRA DUTY IN USE" COVER @ 15" AFF
▼	4X4 J-BOX WITH SINGLE GANG MUD RING AND 3/4" CONDUIT STUBBED ABOVE T-GRID AND BELOW FLOOR FOR PHONE/DATA JACK BY OTHERS @ 15" AFF
Ⓢ	PROGRAMMABLE THERMOSTAT WITH LOCKING COVER MOUNTED @ 48" AFF TO CENTER
Ⓢ	EMPTY 2X4 J-BOX 46" AFF TO BOTTOM WITH 3/4" CONDUIT STUBBED UP FOR PULL STATION BY ALARM PROVIDER
Ⓢ	EMPTY 4X4 J-BOX WITH 2-GANG MUD RING 80" AFF TO BOTTOM WITH 3/4" CONDUIT STUBBED UP FOR HORN STROBE BY ALARM PROVIDER
Ⓢ	EMPTY 4X4 J-BOX AND A SINGLE GANG MUD RING WITH (2) 3/4" ENT CONDUIT STUBBED UP ABOVE T-GRID FOR ON-SITE CARD READER (SEE DETAIL ON ELEC PLAN)
Ⓢ	POWERED 4X4 J-BOX ABOVE T-GRID FOR ON-SITE CARD READER
Ⓢ	2X4 POWERED J-BOX ABOVE T-GRID FOR FUTURE USE
Ⓢ	POWERED 2X4 J-BOX ABOVE T-GRID FOR FIRE/SMOKE DAMPERS
Ⓢ	J-BOX ABOVE T-GRID WITH PLUG-IN CONNECTORS FOR ON-SITE CROSSOVERS. 4X4 BOX @ (1) CONNECTOR 6X6 BOX @ (3) CONNECTORS



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PROJECT: VARIABLE UNIT COMPLEX

MOD POD

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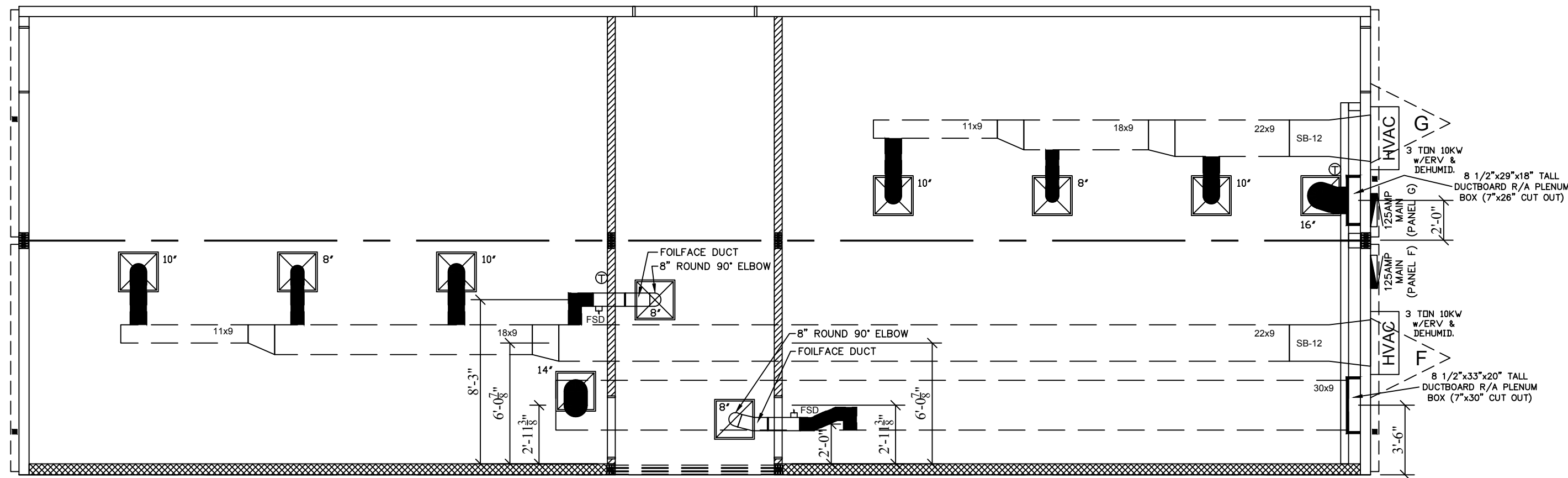
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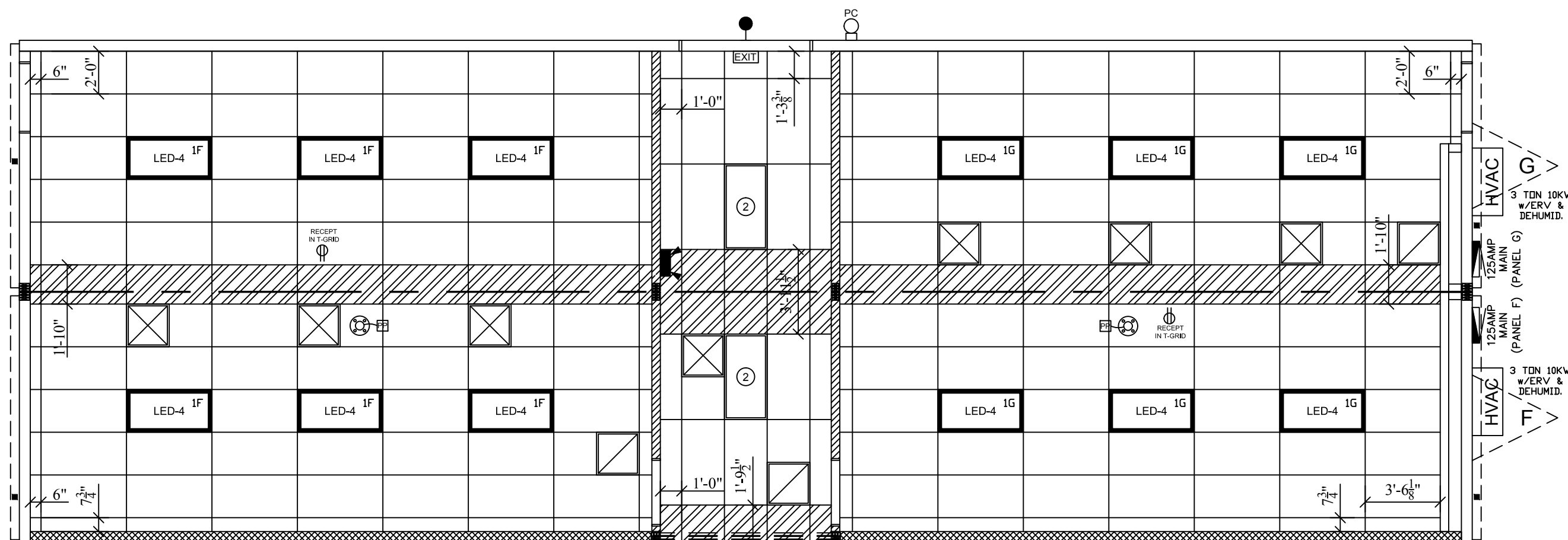
2 HVAC PLAN 'F&G' UNIT
3/16"=1'-0"

HVAC LEGEND	
	BARD HVAC UNIT WITH ELECTRIC HEAT STRIP (SEE HVAC PLAN FOR SIZES)
	FLEX DUCT
	FOILFACE DUCT
	24X24 4-WAY LAY-IN DIFFUSER W/ R-42 RADIAL DAMPER
	24X24 PERFORATED LAY-IN R/A GRILLE
	FIRE/SMOKE DAMPER

MECHANICAL VENTILATION	
Vbz = (Rp Pz) + (Ra Az)	
AREA (Az)	ROOM CLASSROOM 653 S.F.
OCCUPANCY DENSITY LOAD #/1000 SQFT (Pz)	23
OUTSIDE AIR REQUIRED (Rp)	10 CFM X 23 (Pz) 229 CFM
AREA OUTDOOR AIRFLOW RATE (Ra)	0.12 X (Az) 78 CFM
AIRFLOW RATE (Vbz)	307 CFM
TOTAL CFM AVAILABLE	1100 CFM
FRESH AIR DAMPER SETTING	307 / 1100 28%

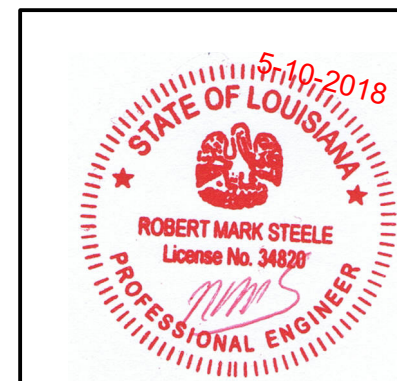
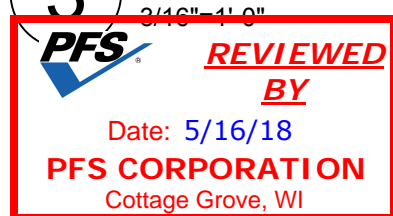
STANDARD WITH BARD UNIT IS A BAROMETRIC DAMPER WHICH PROVIDES UP TO 25% OF OUTSIDE FRESH AIR. A ERV REPLACES THE BAROMETRIC DAMPER AND THE ERV PROVIDES UP TO 200 TO 450 CFMS OF OUTSIDE AIR.

*MECHANICAL VENTILATION SHALL BE PROVIDED AS REQD. IN ACCORDANCE w/TABLE 403.3 OF THE IMC CODE OR NATURAL MEANS OF VENTILATION SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 402 OF THE IMC CODE.



3 REFLECTED CEILING PLAN 'F&G' UNIT
3/48"=1'-0"

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



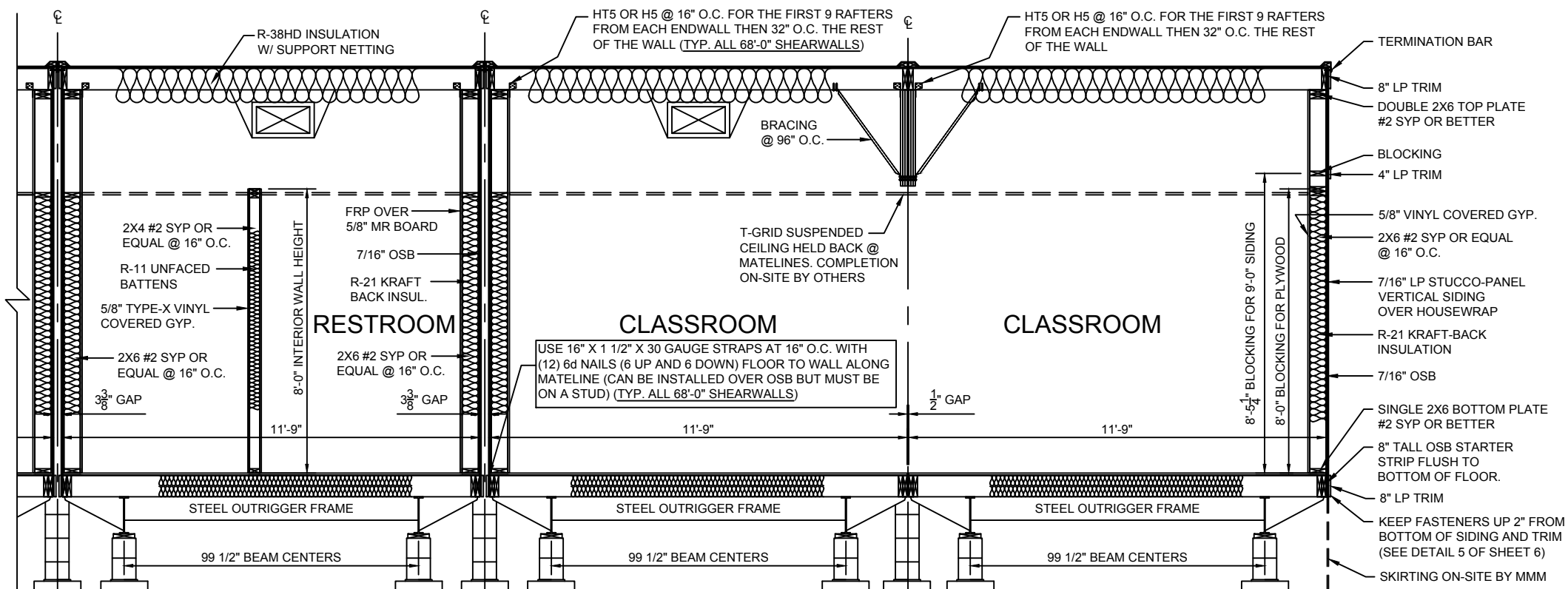
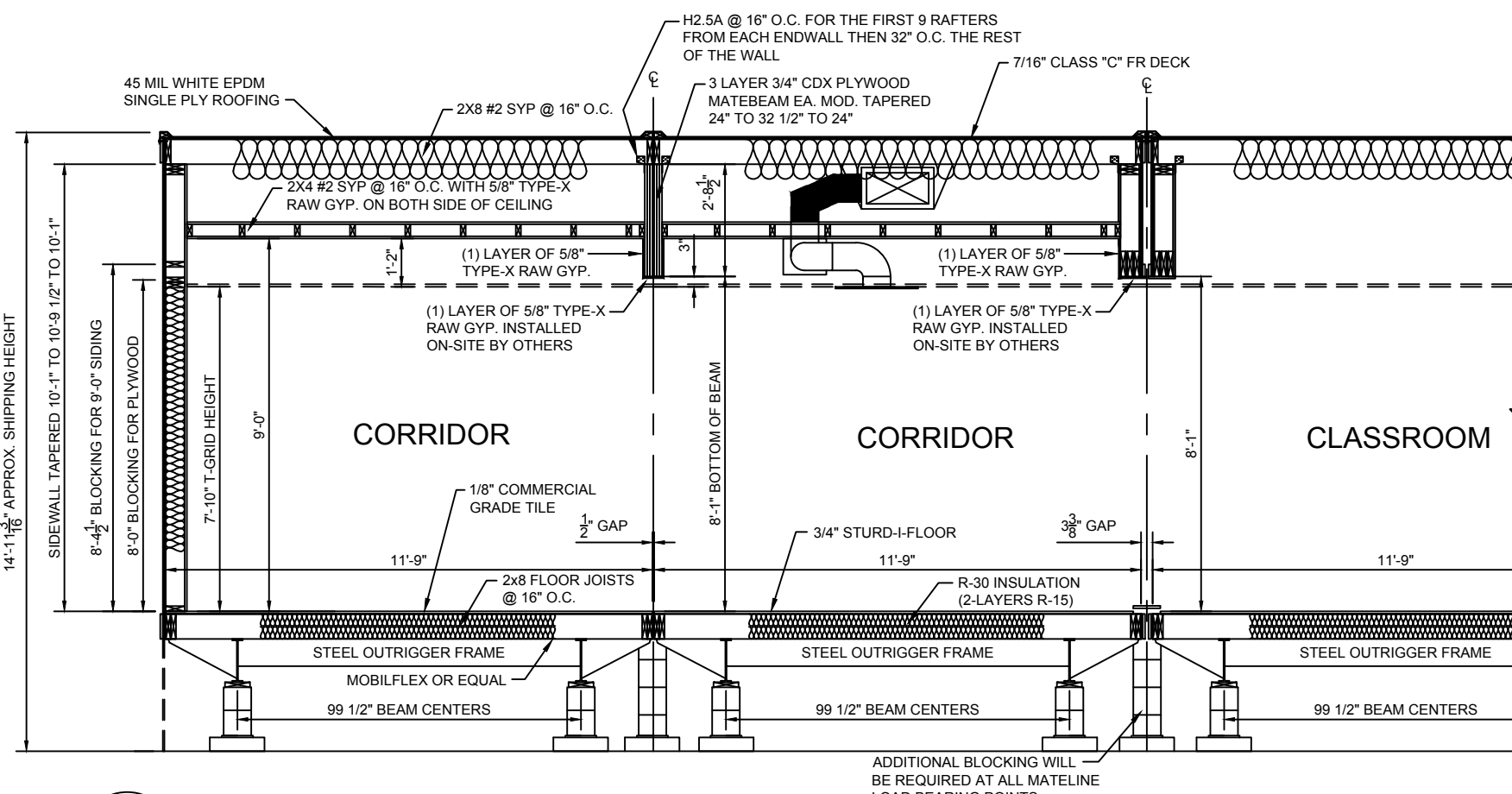
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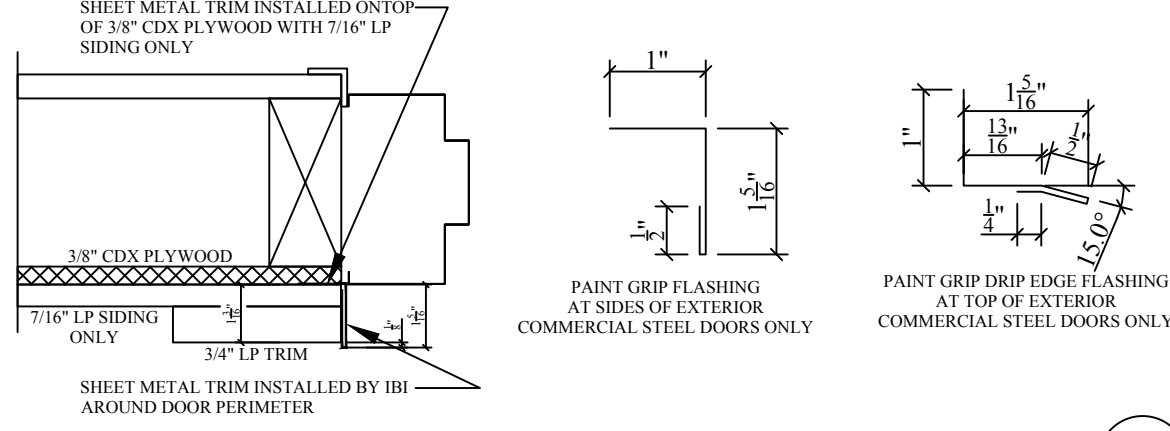
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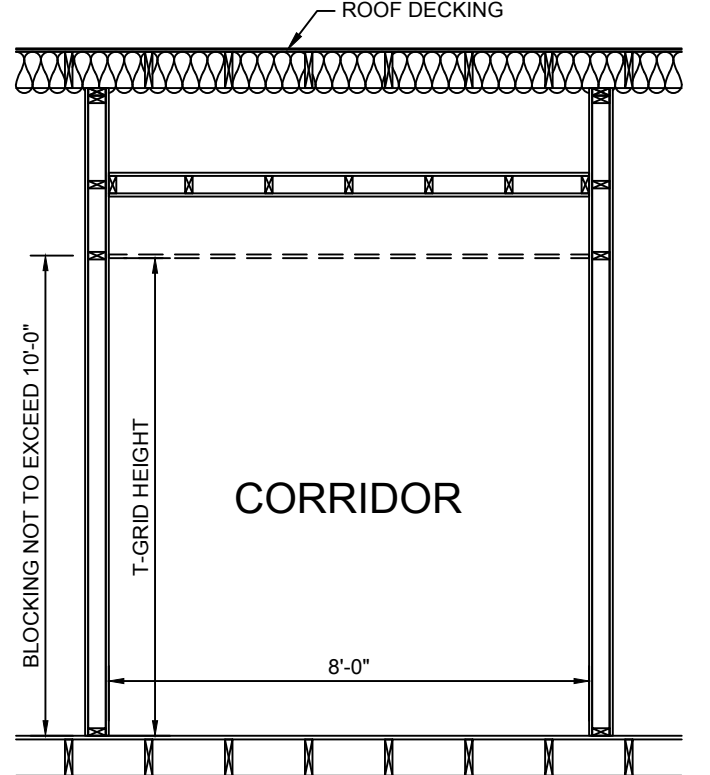
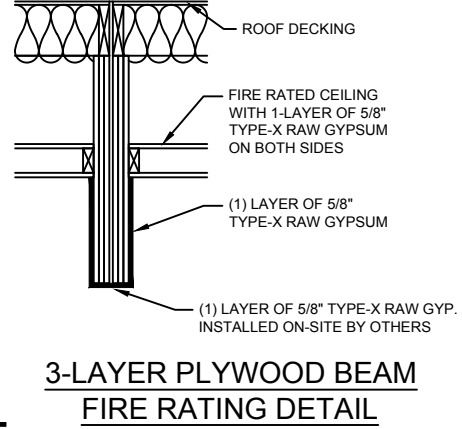


1 BUILDING CROSS SECTION
1/4"=1'-0"

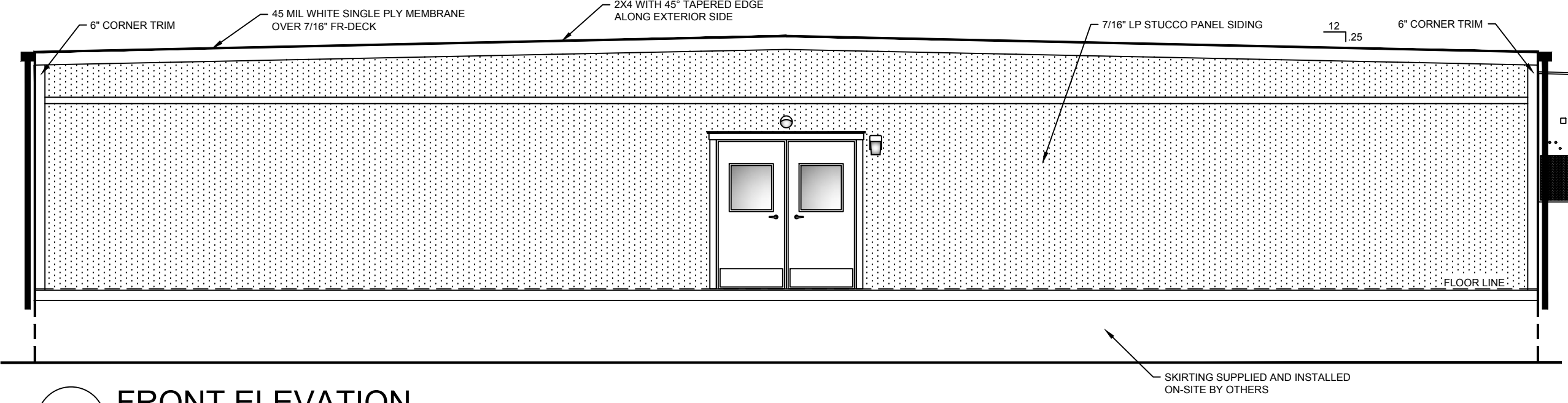
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Date: 5/16/18
PFS CORPORATION
Cottage Grove, WI



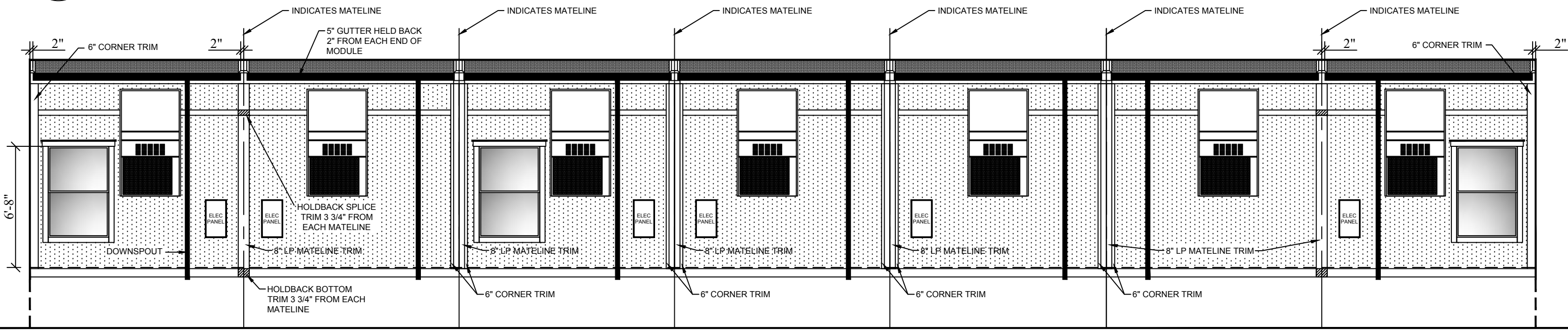
4 WINDOW & TRIM INSTALLATION DETAIL
NTS



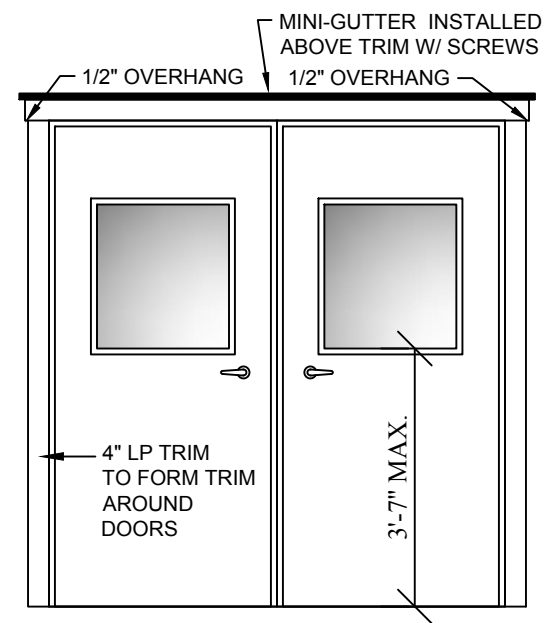
5 FIRE RATED CORRIDOR DETAIL
NTS



2 FRONT ELEVATION
3/16"=1'-0"



3 ENDWALL ELEVATION 7 UNIT
3/16"=1'-0"



6 DOOR & TRIM INSTALLATION DETAIL
NTS

5-10-2018
STATE OF LOUISIANA
ROBERT MARK STEELE
License No. 34820
PROFESSIONAL ENGINEER

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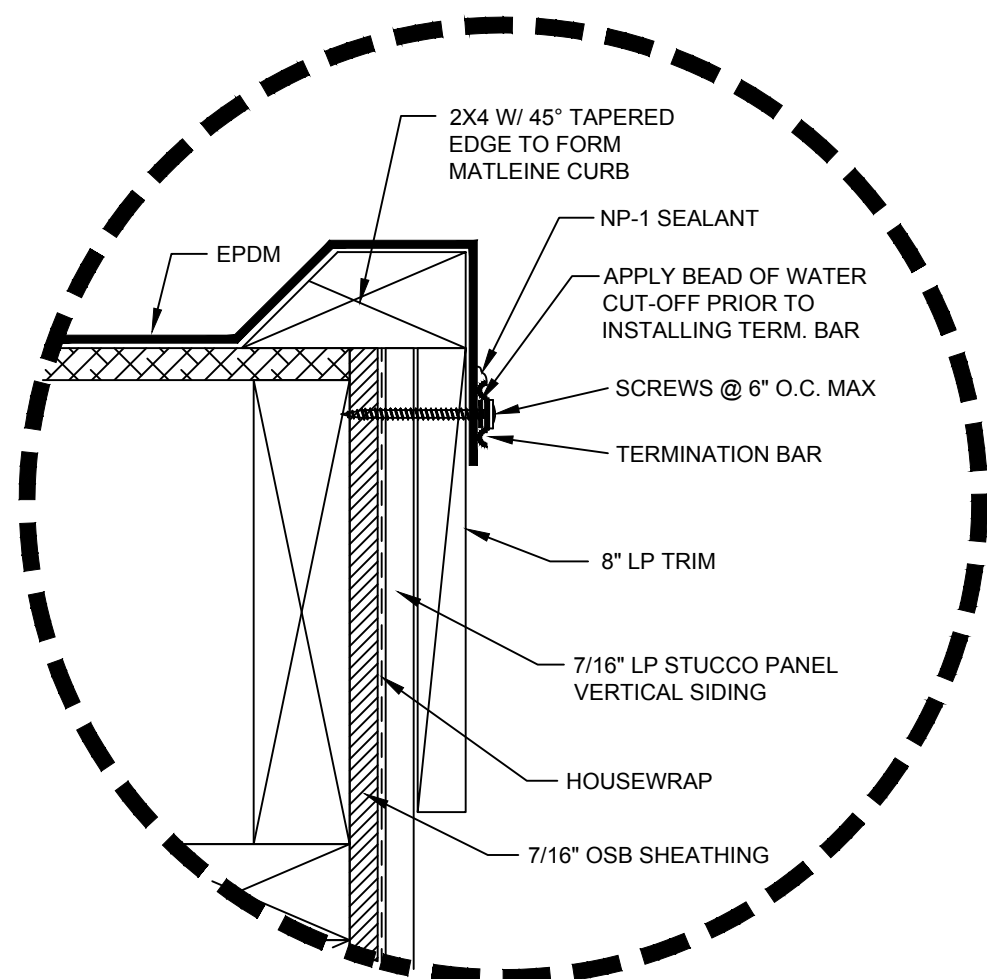
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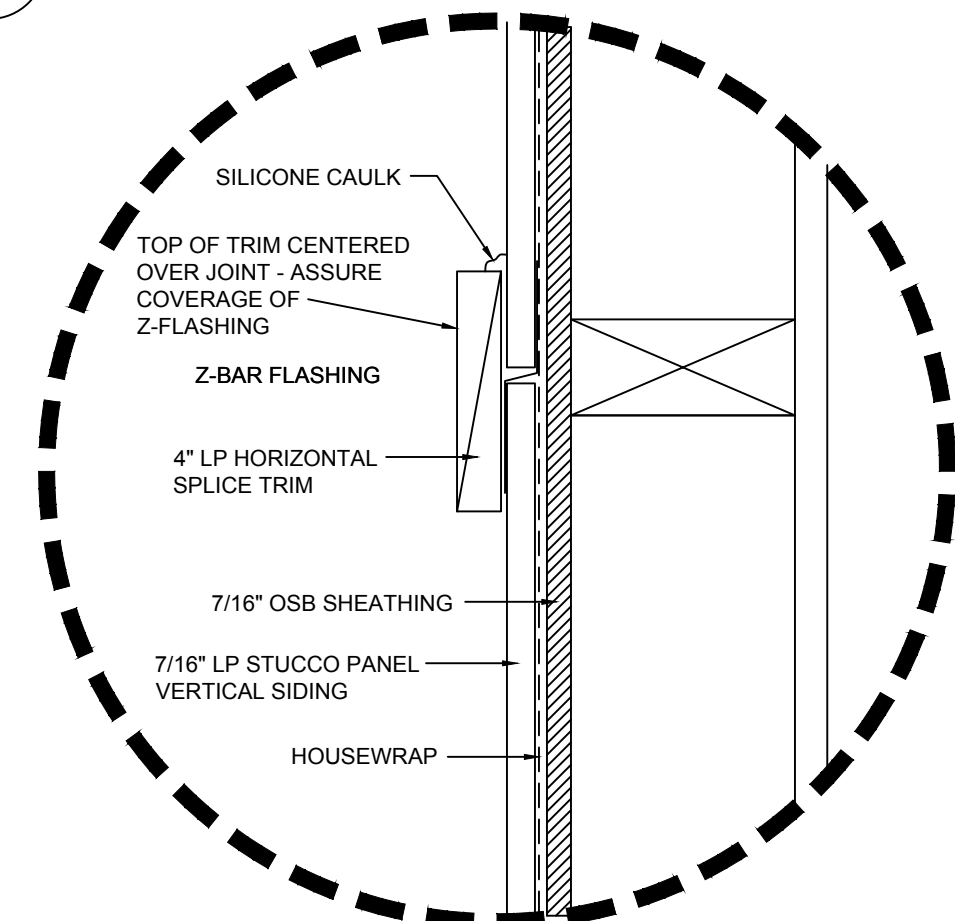
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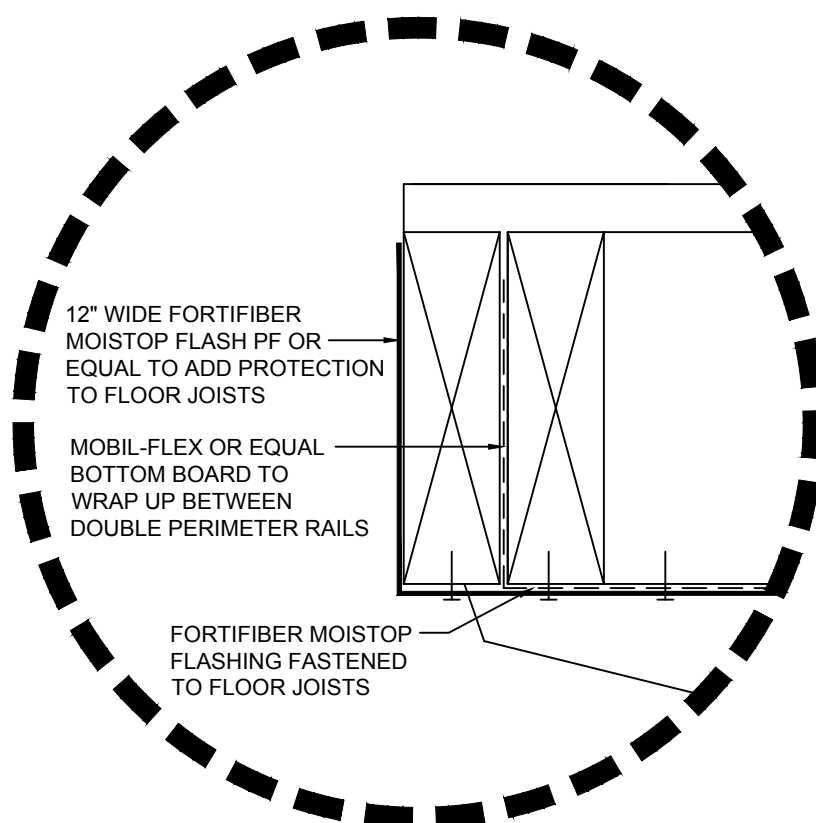
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STATE OF LOUISIANA
AS PER REVIEW LETTER
BY JOHN L. WHITAKER, ARCHITECT
John L. Whitaker



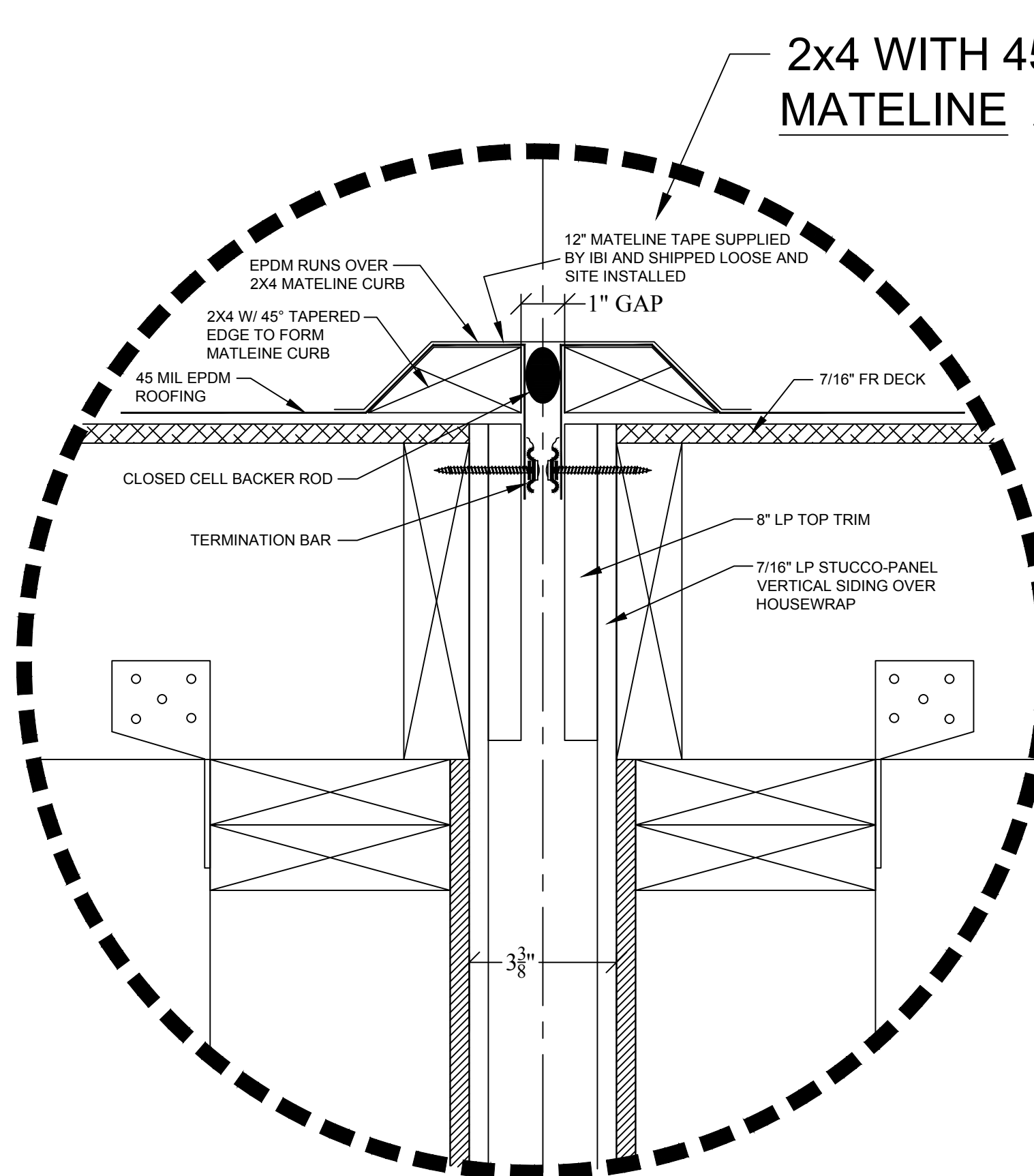
1 SIDEWALL ROOF TERMINATION DETAIL
NTS



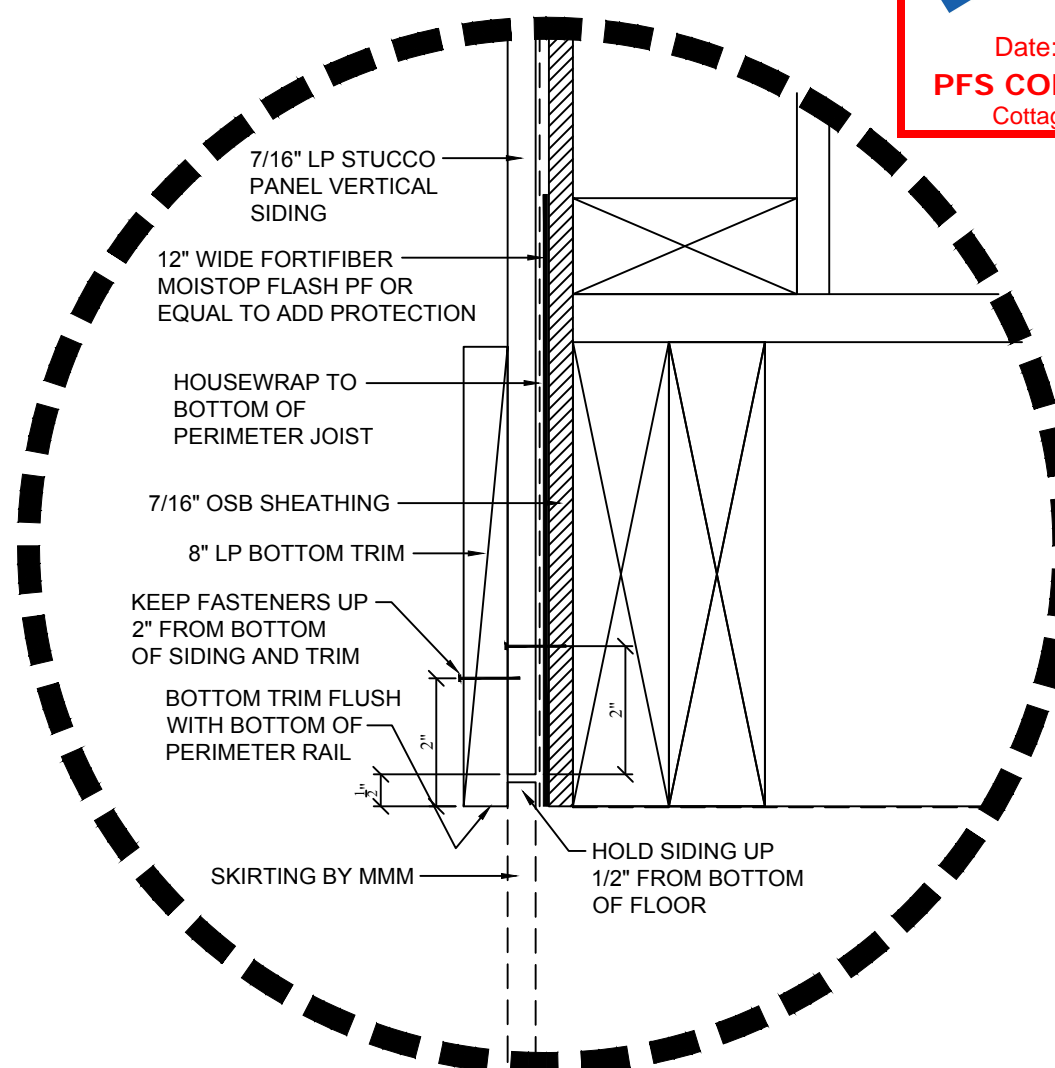
2 HORIZONTAL SPLICE TRIM DETAIL
NTS



5 BRICK FLASH AT MATELINE DETAIL
NTS

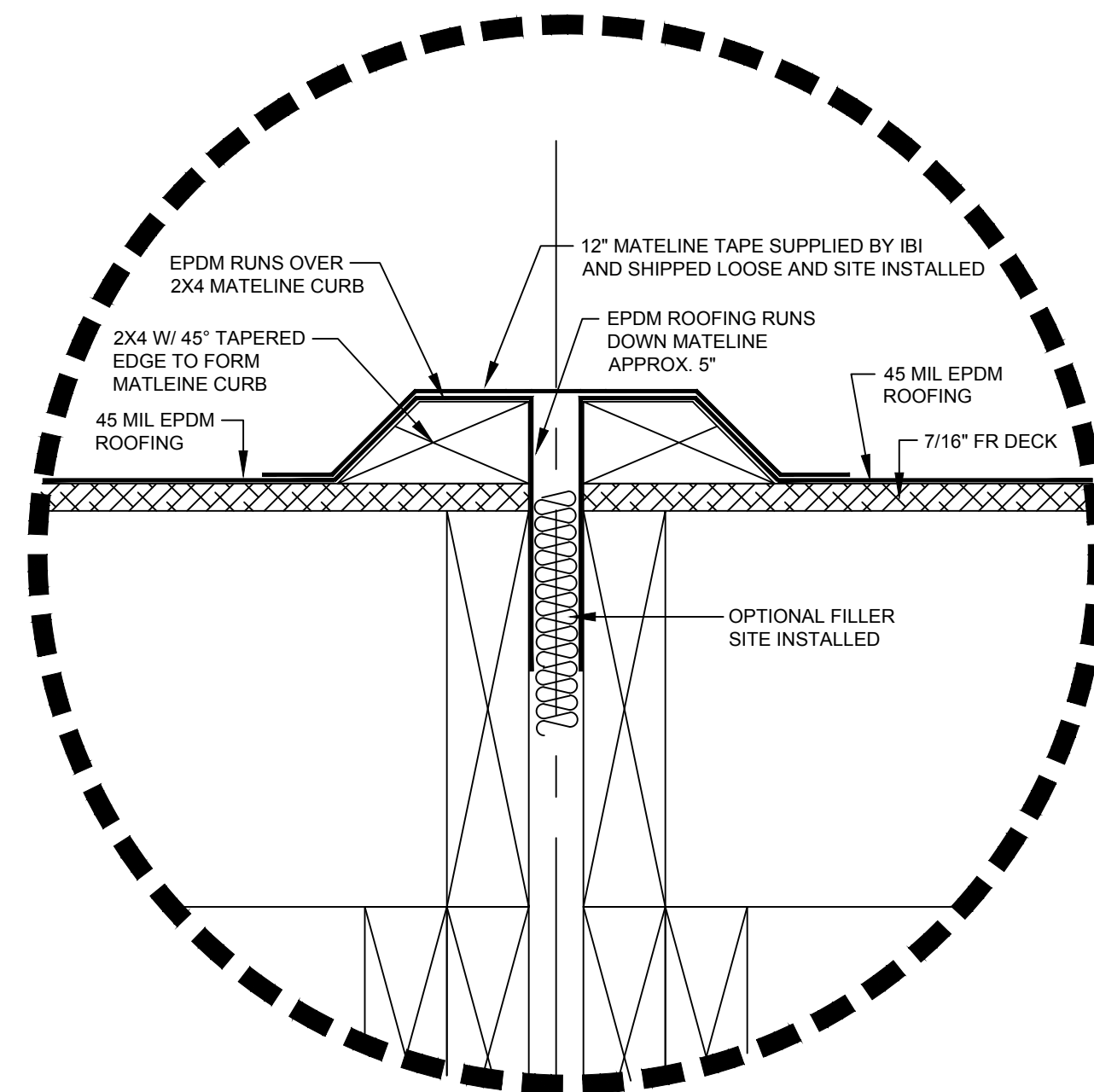


3 ROOF MATELINE FLASHING DETAIL AT SIDING
NTS

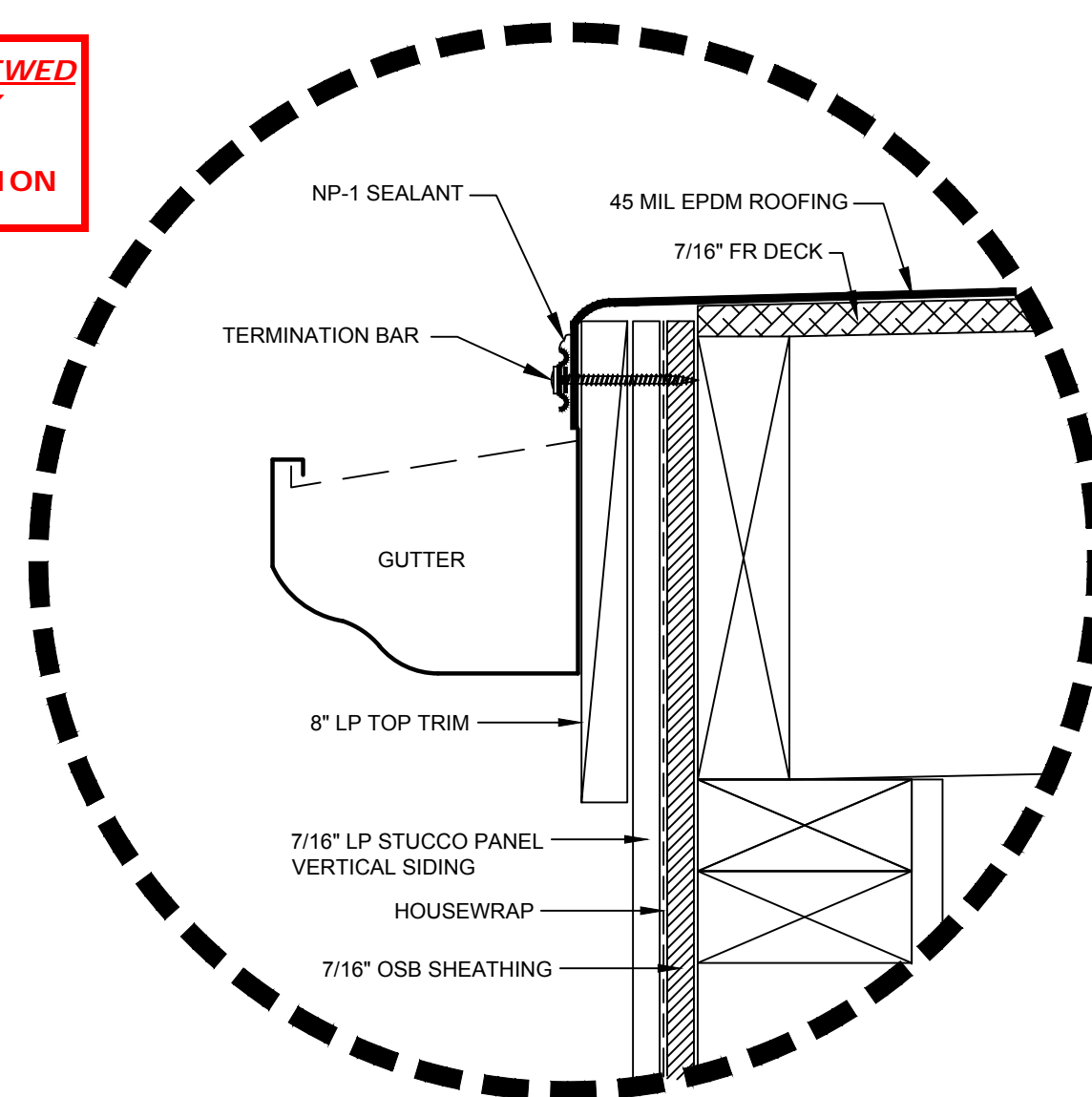


6 BOTTOM TRIM DETAIL
NTS

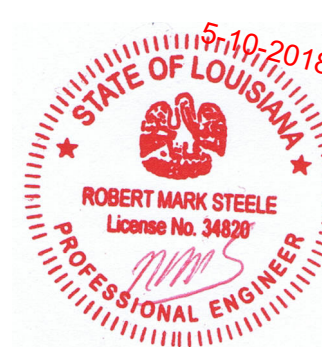
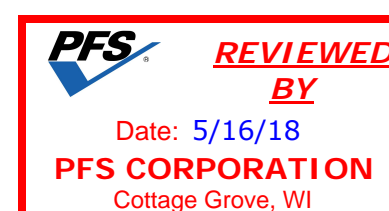
2x4 WITH 45° TAPERED EDGE AT EACH MATELINE AND SIDEWALL OF MODULES



4 ROOF MATELINE FLASHING DETAIL
NTS



7 ENDWALL TOP TRIM/GUTTER DETAIL
NTS



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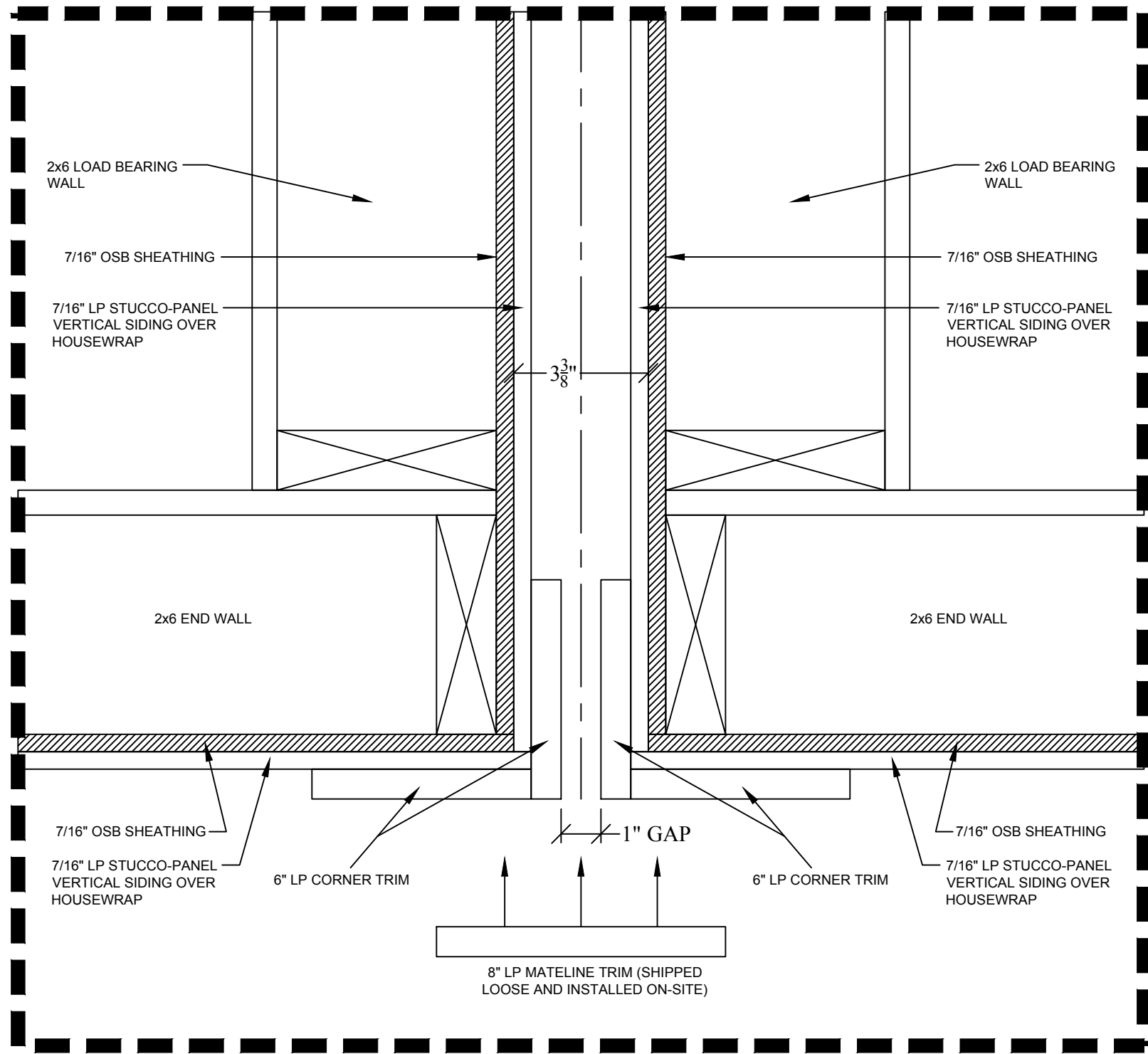
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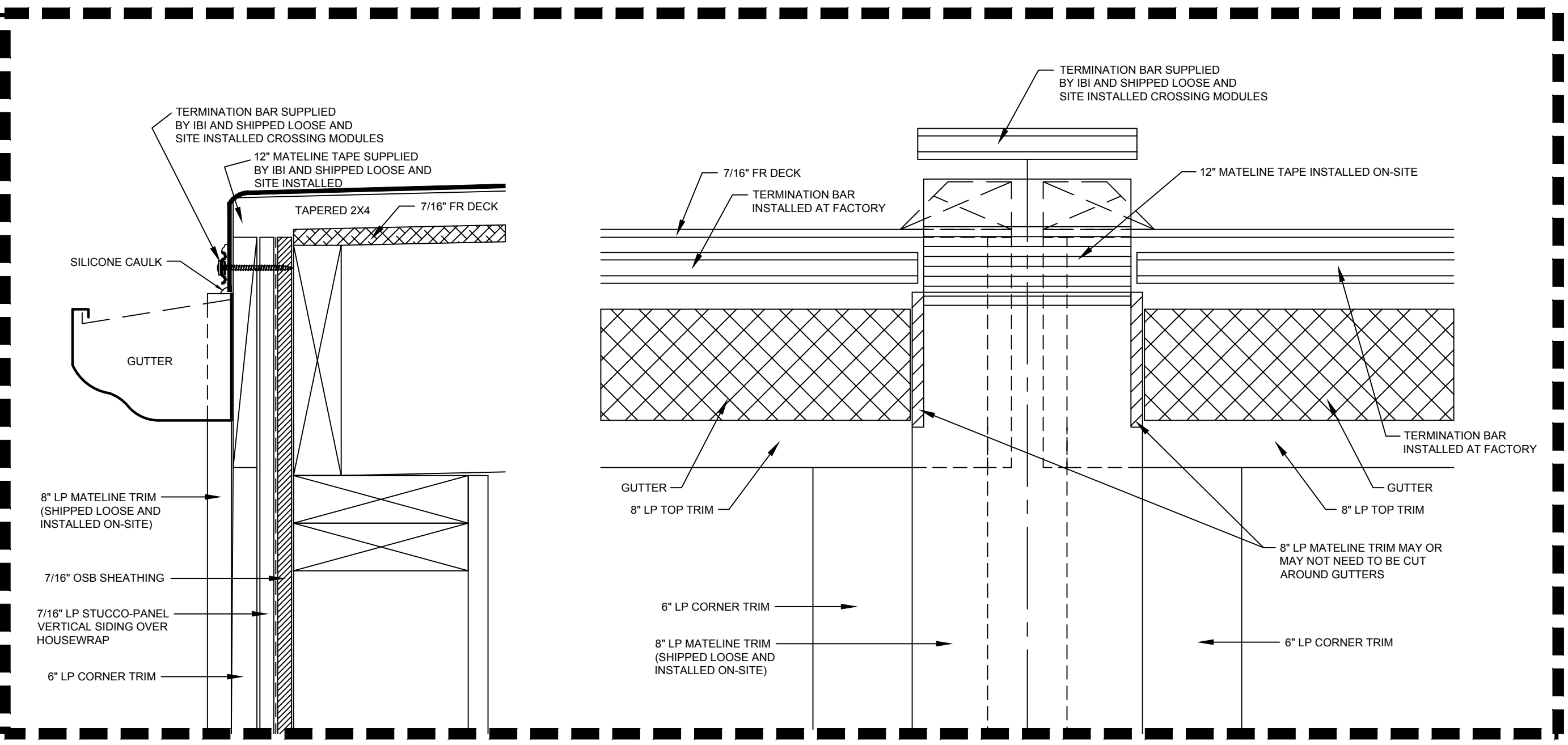
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PFS **REVIEWED**
BY
 Date: 5/16/18
PFS CORPORATION
 Cottage Grove, WI

1 **8" TRIM DETAIL AT LOAD BEARING MATELINE WALLS**
 NTS



2 **8" TRIM DETAIL AT LOAD BEARING MATELINE WALLS**
 NTS

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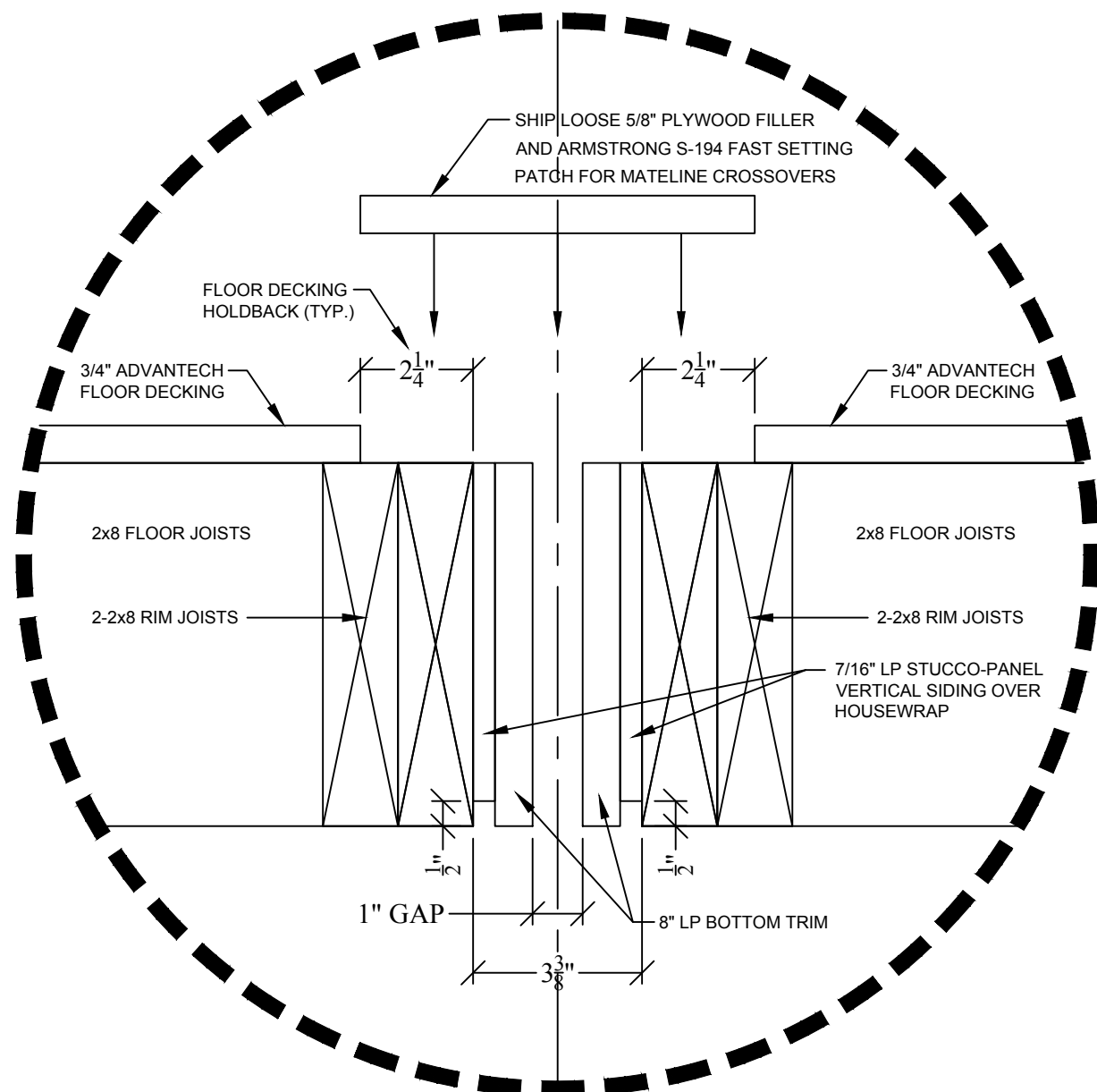
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 DRAWN BY: ----
 STATES:
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 SERIAL NUMBERS:

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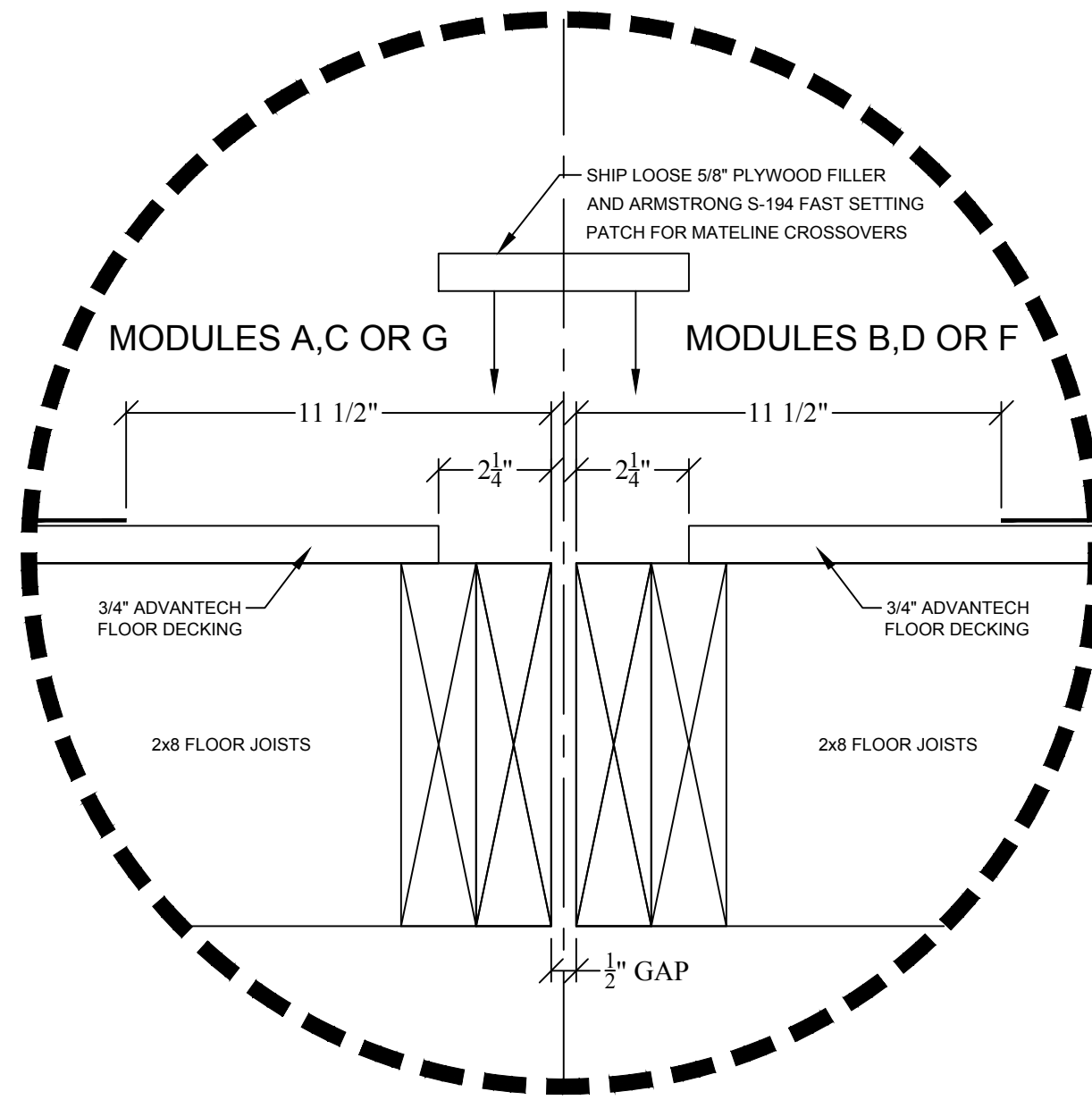
SHEET:
7 OF **13**



REVIEWED FOR
 STATE ENGINE-MARKING
 AS PER REVIEW LETTER
 BY: JOHN L. WHITAKER, ARCHITECT

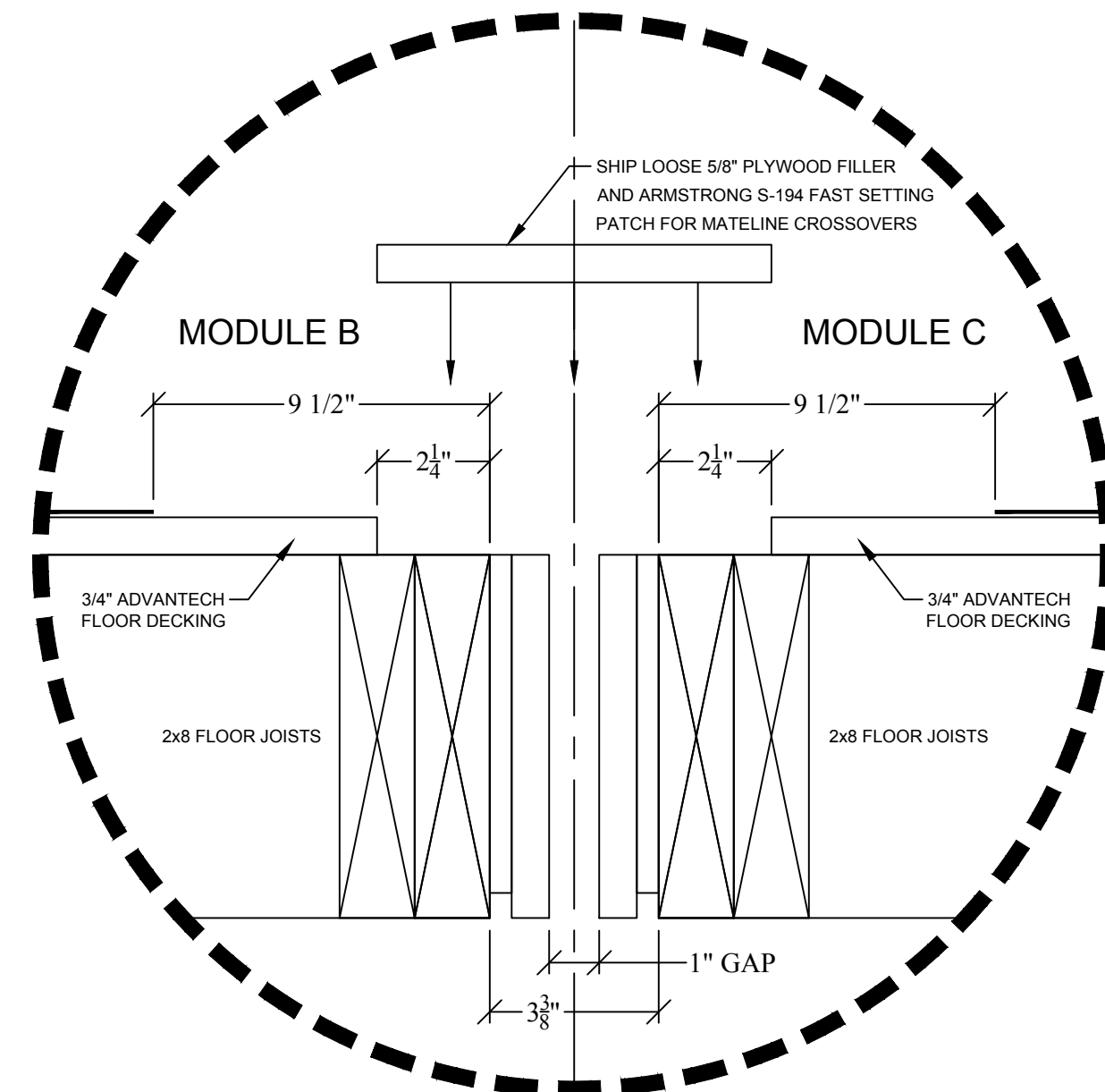


1 FLOOR DECKING HOLDBACKS
NTS



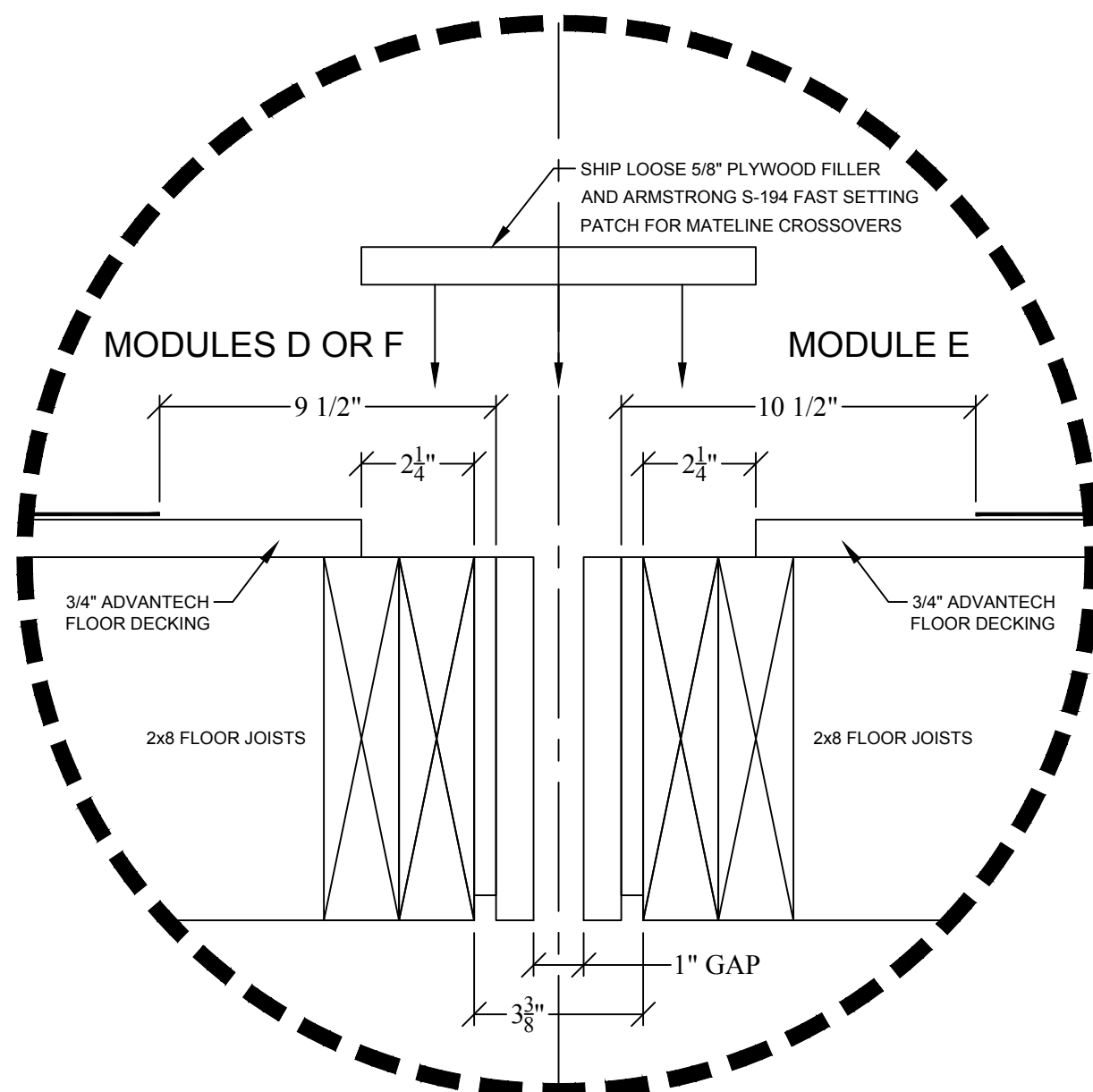
MODULES A&B, C&D OR F&G

2 FLOOR TILE HOLDBACKS
NTS



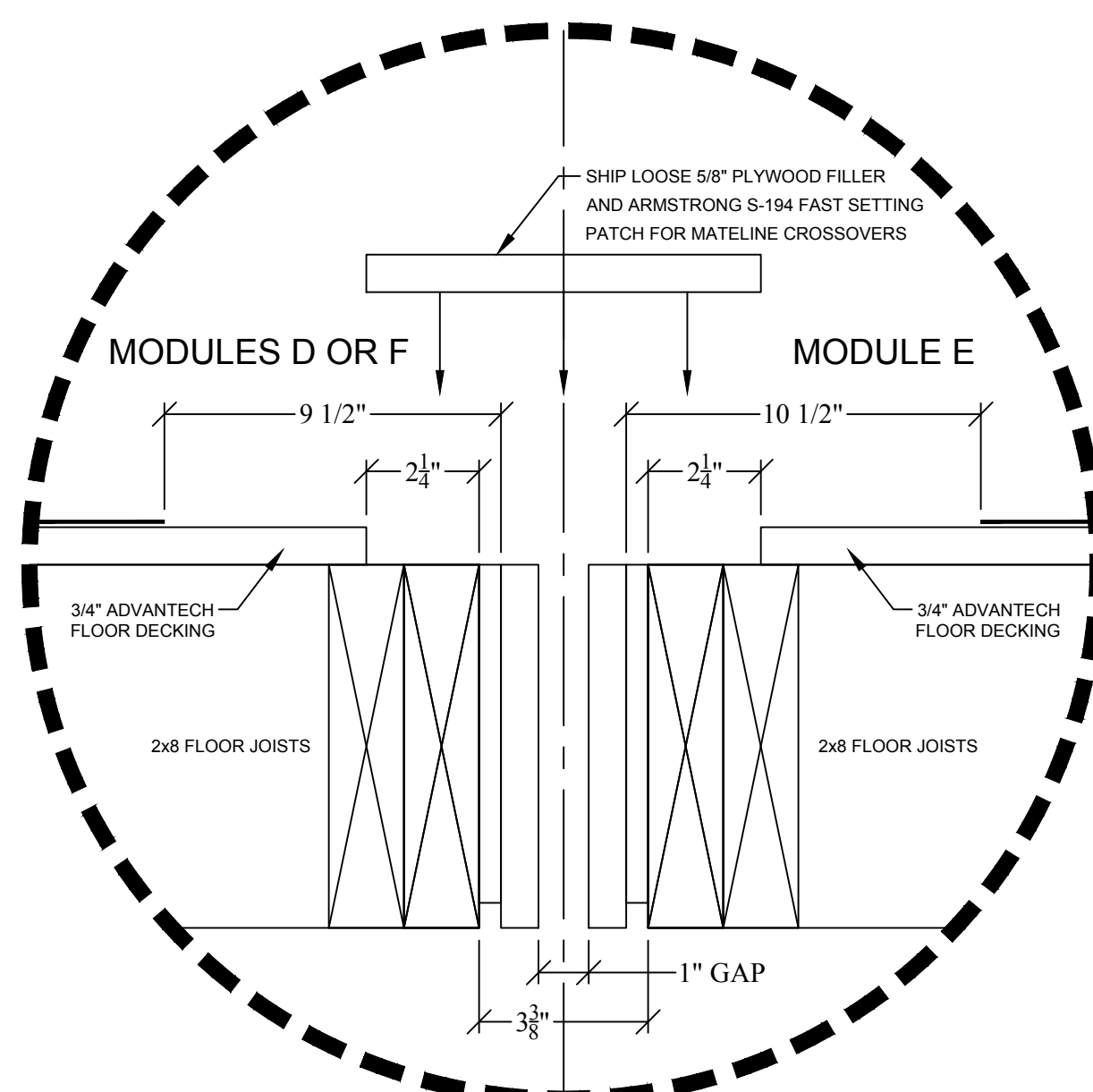
MODULES B&C

3 FLOOR TILE HOLDBACKS
NTS



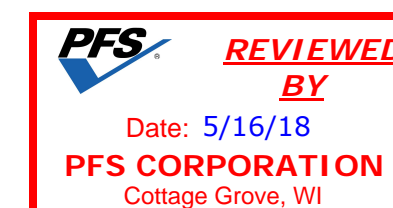
MODULES D OR F WITH E

4 FLOOR TILE HOLDBACKS
NTS



MODULES D OR F WITH E

5 FLOOR TILE HOLDBACKS
NTS



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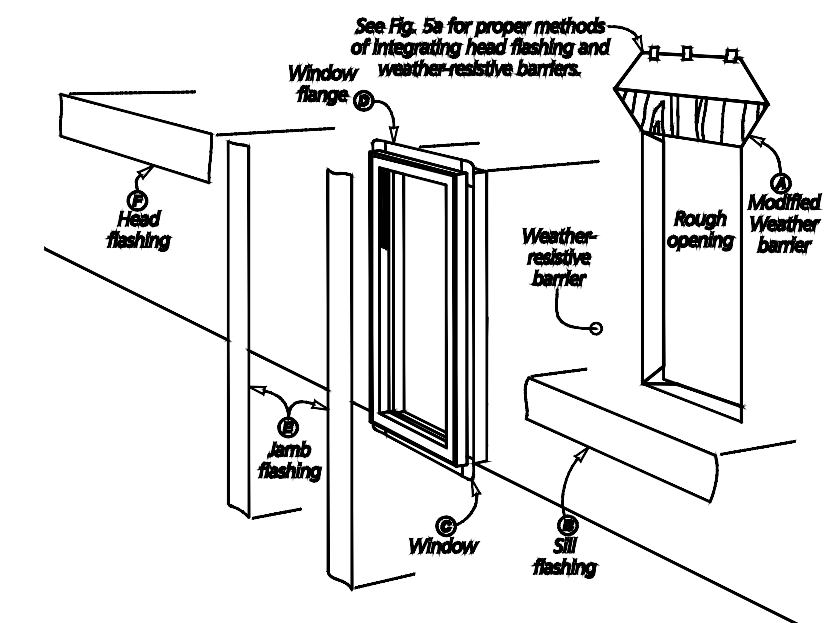
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HOUSTON
PROJECT: VARIABLE UNIT COMPLEX
MOD POD
PROJECT NUMBER: _____

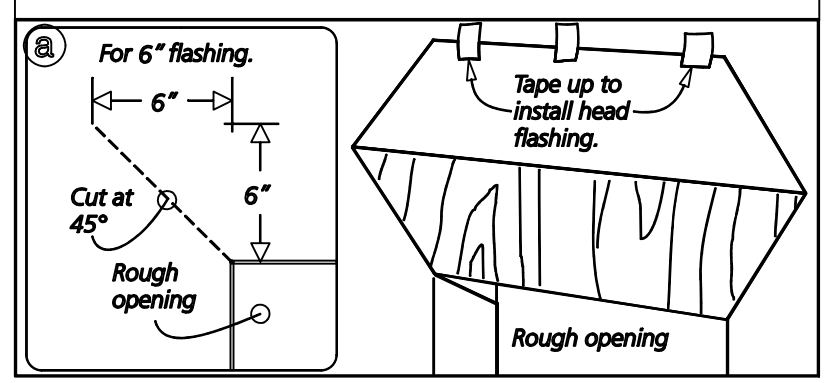
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SERIAL NUMBERS: ----
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SHEET:
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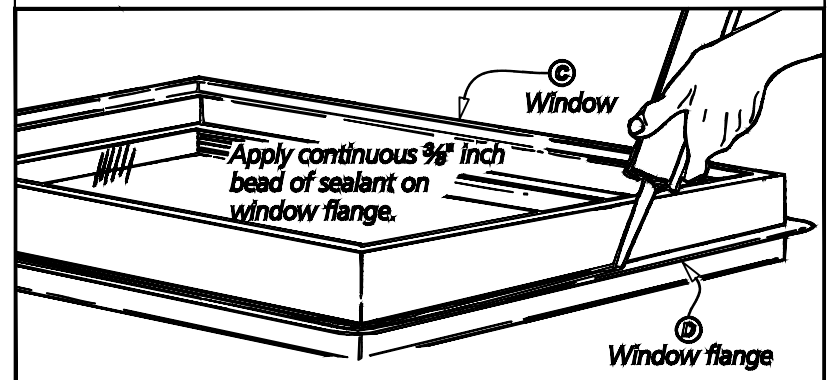
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STATE OF LOUISIANA
AS PER REVIEW LETTER
BY JOHN L. WHITAKER, ARCHITECT
John L. Whitaker



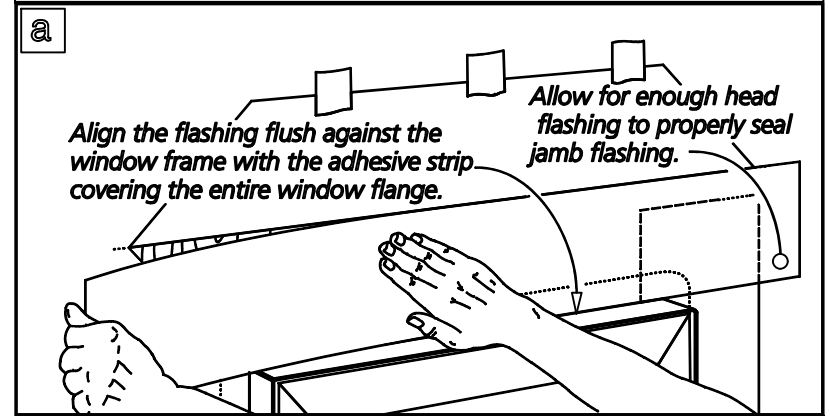
1 MODIFY WEATHER-RESISTIVE BARRIER



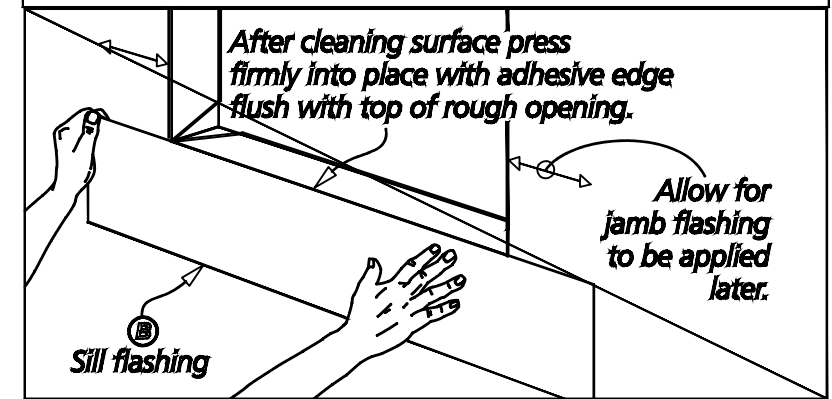
3 WINDOW INSTALLATION



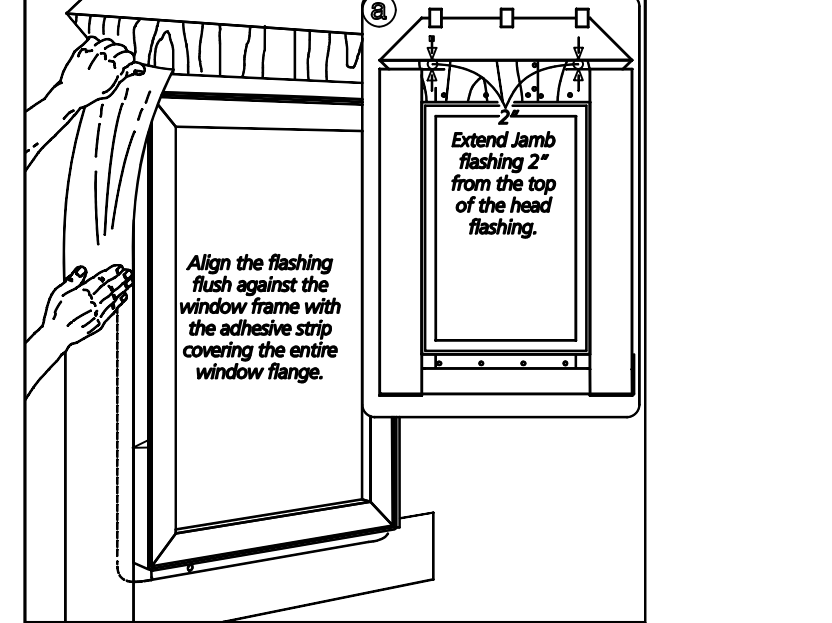
5 HEAD FLASHING



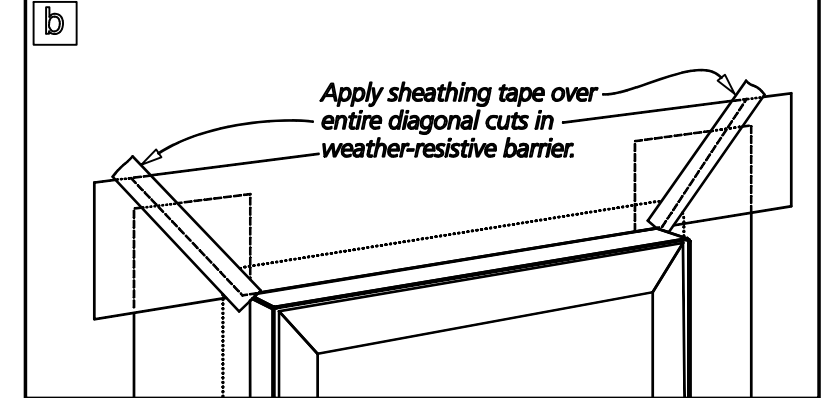
2 SILL FLASHING



4 JAMB FLASHING

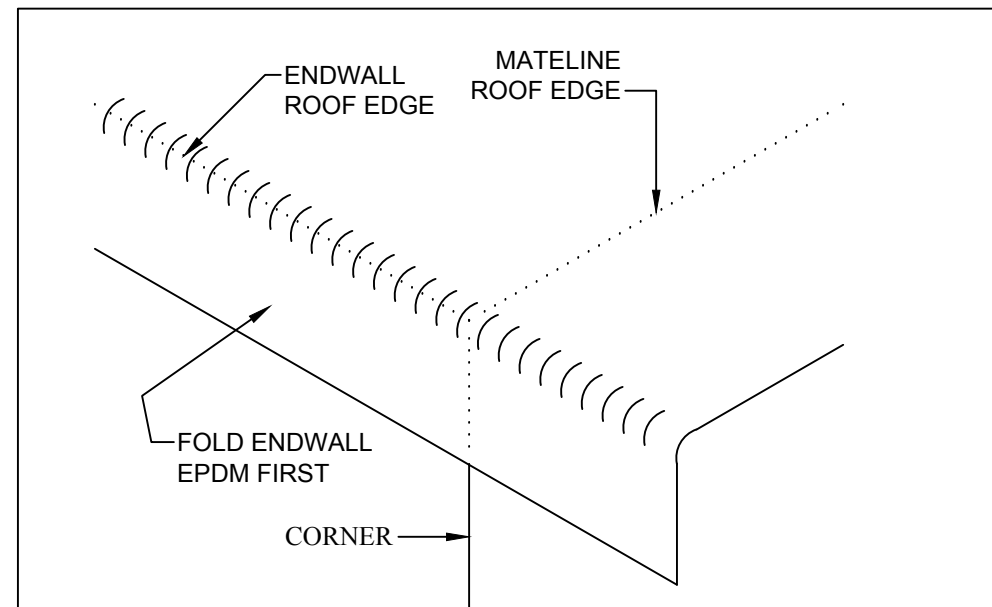


5 HEAD FLASHING

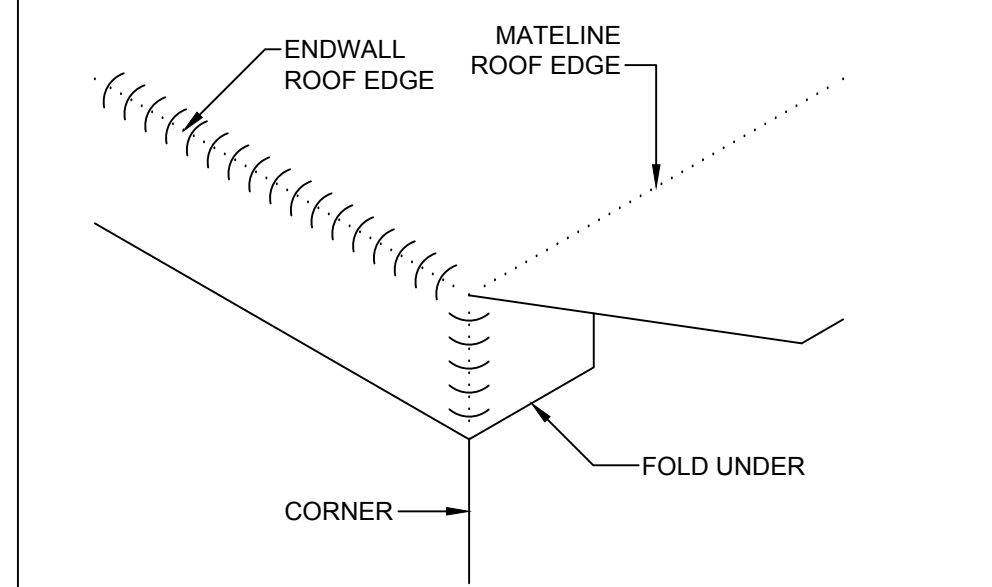


1 WINDOW FLASHING DETAIL - SELF ADHESIVE

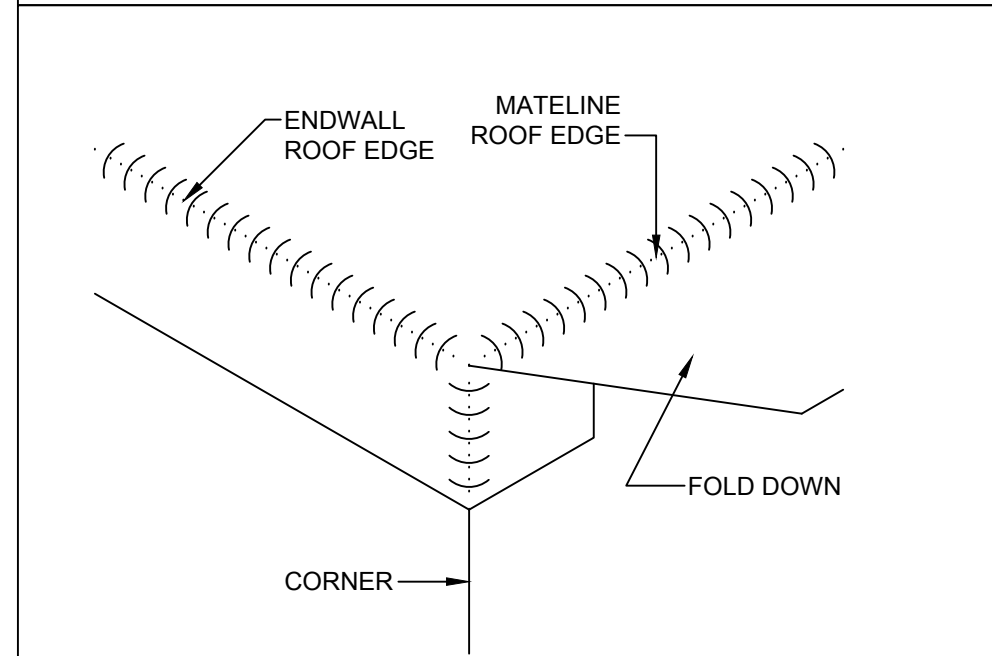
NTS



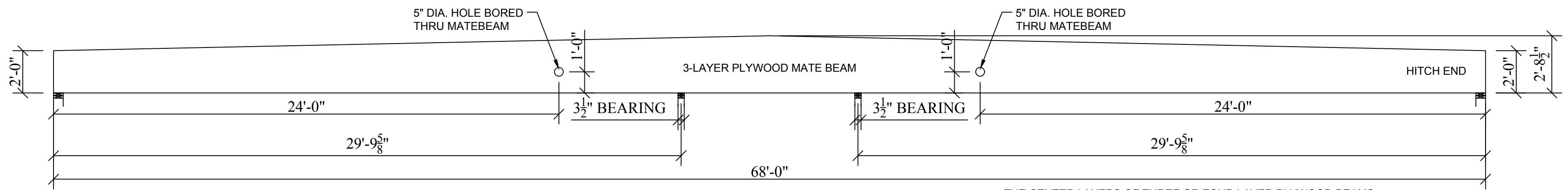
1. FOLD DOWN ENDWALL



2. FOLD UNDER



3. FOLD DOWN MATELINE



2 PLYWOOD BEAM DETAIL

NTS

THE CENTER LAYERS OF THREE OR FOUR LAYER PLYWOOD BEAMS MAY BE SPICED HORIZONTALLY WITH ONE HORIZONTAL SPLICE PER LAYER. THE SPLICE MUST BE NO LESS THAN 8 inch FROM THE TOP OR BOTTOM EDGE OF THE BEAM. THE TWO OUTSIDE LAYERS SHALL NOT CONTAIN A HORIZONTAL SPLICE.

A&B
C&D
F&G



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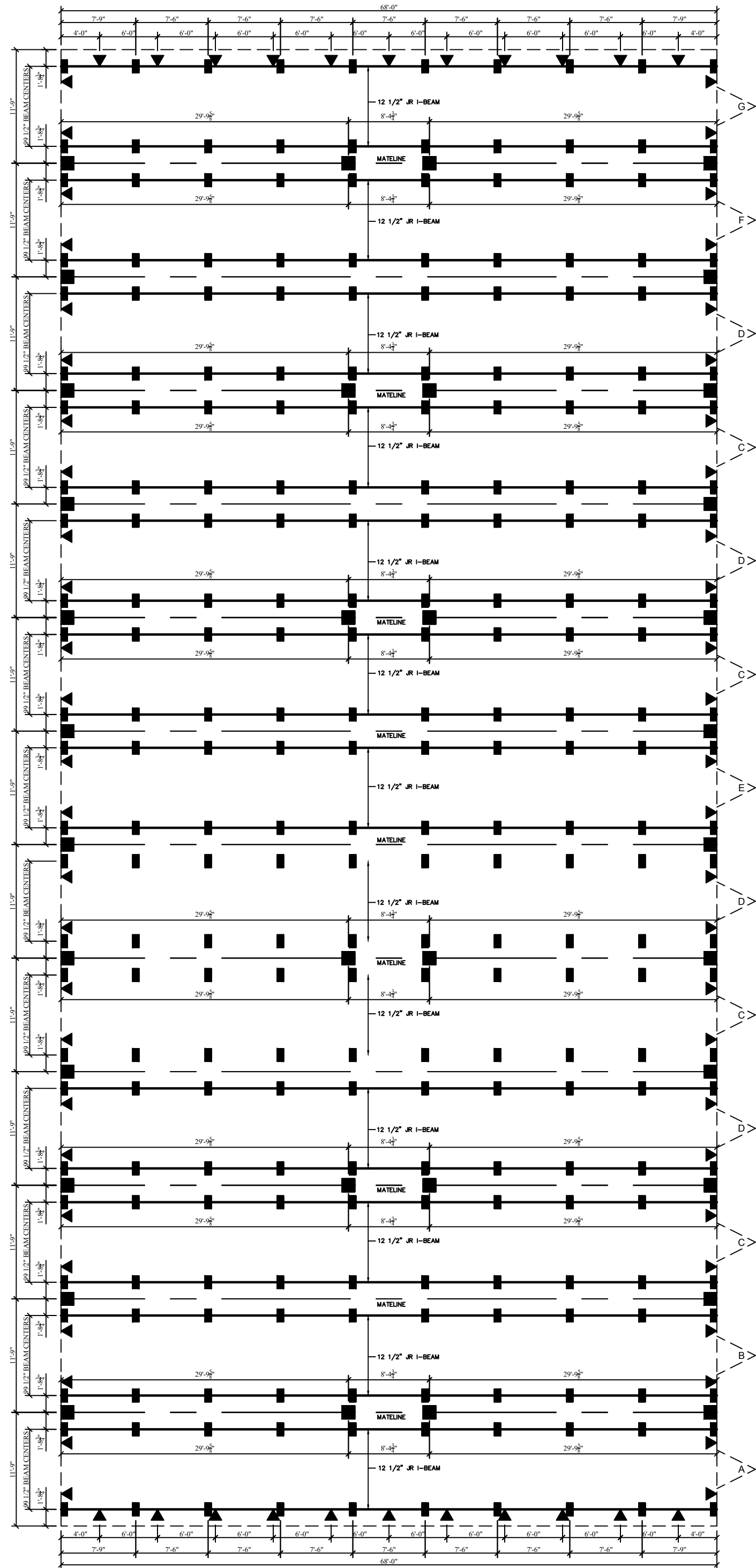
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HOUSTON
PROJECT: VARIABLE UNIT COMPLEX
MOD. POD
PROJECT NUMBER: _____

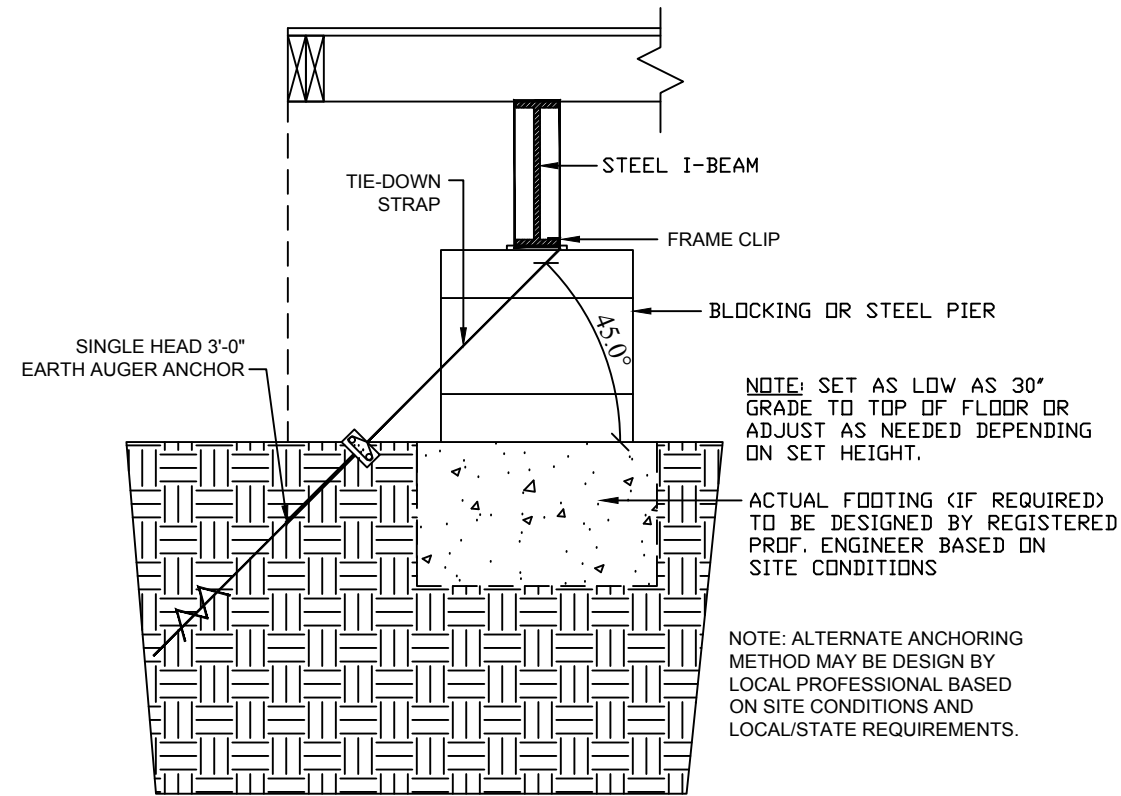
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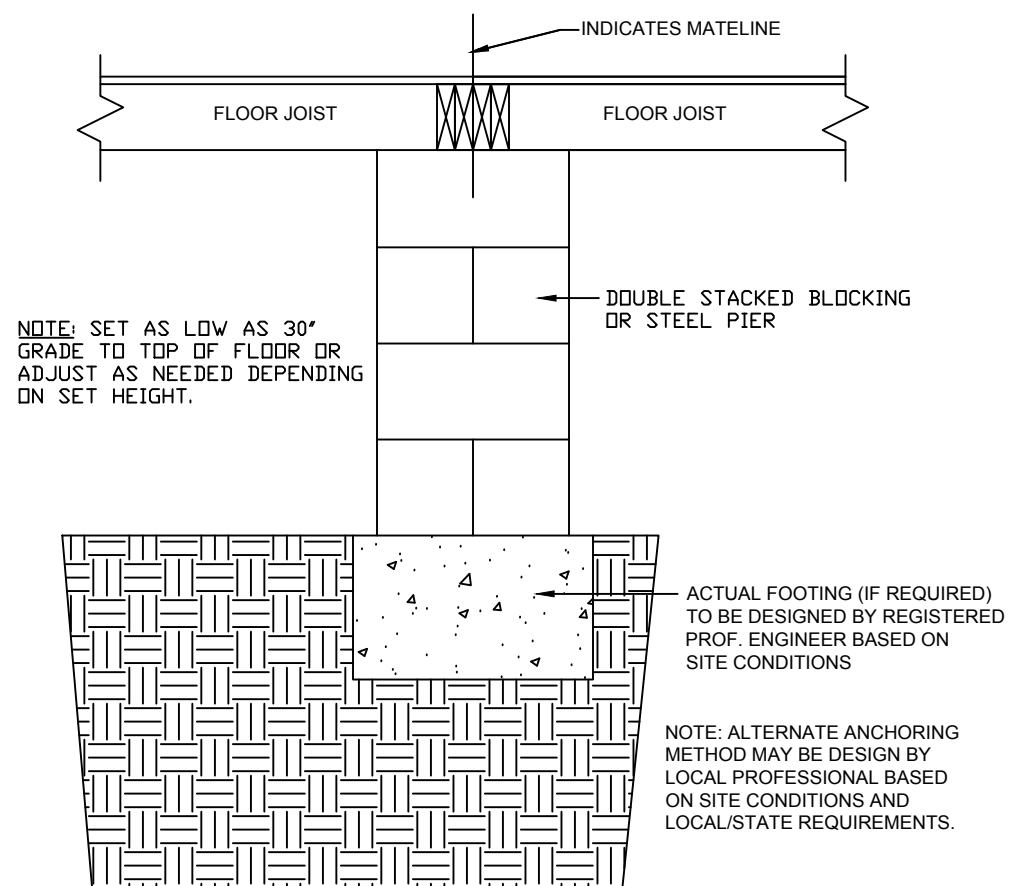
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1 SUGGESTED BLOCKING PLAN - (12 CLASSROOMS)
3/32"=1'-0"

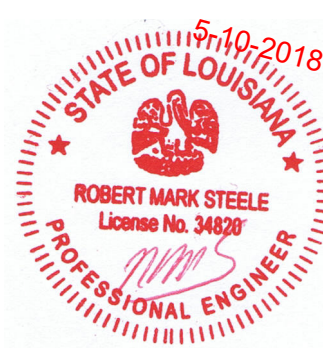
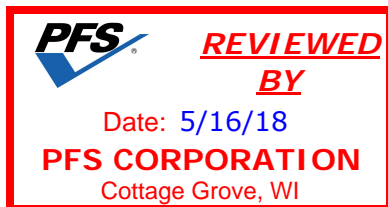


2 SUGGESTED ANCHORING METHOD
3/4"=1'-0"



3 SUGGESTED BLOCKING @ MATELINE
3/4"=1'-0"

- INDICATES SUGGESTED MAXIMUM I-BEAM BLOCKING SPACING - PIERS AND FOOTINGS DESIGNED BY LOCAL PROFESSIONAL IN ACCORD. WITH ALL LOCAL AND STATE REQUIREMENTS BASED ON SITE CONDITIONS.
- INDICATES REQUIRED MATELINE BLOCKING LOCATION - PIERS AND FOOTINGS DESIGNED BY LOCAL PROFESSIONAL IN ACCORD. WITH ALL LOCAL AND STATE REQUIREMENTS BASED ON SITE CONDITIONS.
- INDICATES REQUIRED FRAME-TIE GROUND ANCHOR (MIN. 4725 LBS. HOLDING STRENGTH) LOCATION FOR ALL WIND LOADS - NOTE: ALTERNATE ANCHORING DESIGN MAY BE MADE BY REGISTERED PROFESSIONAL ENGINEER.



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13 OF 13

NOTES:
1. SITE PLAN NOT AVAILABLE AT THIS TIME. BUILDING DESIGNED TO HAVE FIRE SEPARATION DISTANCE GREATER THAN 10 FT. IN ACCORDANCE WITH TABLE 602 OF THE IBC.
2. PORCHES, STEPS, AND RAMPS TO BE SUPPLIED AND INSTALLED BY OTHERS IN ACCORDANCE WITH THE IBC.
3. PORTABLE FIRE EXTINGUISHERS TO BE SUPPLIED AND INSTALLED ON SITE BY OWNER IN ACCORDANCE WITH SECTION 906 OF THE 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 MANAGEMENT TO SITE CONSTRUCT DRAFT STOP IN ACCORDANCE WITH THE IBC WHERE REQUIRED.

THE FOLLOWING UNITS ARE TO BE CONSTRUCTED INDIVIDUALLY BY THE FACTORY:
"A&B" UNIT-OUTSIDE UNIT W/TWO CLASSROOMS
"C&D" UNIT-MIDDLE UNIT W/TWO CLASSROOMS
"E" UNIT-MIDDLE UNIT W/RESTROOMS
"F&G" UNIT-OUTSIDE UNIT W/TWO CLASSROOMS

NOTE: FOR A TYPE VB GROUP B OR E BUILDING THE MAXIMUM SQUARE FOOTAGE ANY COMBINATION OF UNITS SHALL BE 9,000 SQ. FT. ADDITIONAL SITE INSTALLED EGRESS ELEMENTS MAY BE NECESSARY DEPENDING UPON THE LAYOUT AND CONFIGURATION. AREA INCREASE CALCULATION PROVIDED ON CONFIGURATIONS EXCEEDING 9,000 SQ. FT. ON CONFIGURATION SHEET.

ADDITIONAL NOTE FOR CONFIGURATIONS:MOD POD UNITS ARE DESIGNED TO BE MANUFACTURED INDIVIDUALLY. MODULES ARE DESIGNED TO ALLOW SEVERAL DIFFERENT COMPLEX CONFIGURATIONS IN THE FIELD WITH A MINIMUM OF 7 UNITS (6 CLASSROOMS) AND A MAXIMUM OF 13 UNITS (12 CLASSROOMS). NO MORE THAN 8 MODULES BETWEEN SIDEWALL SHEARWALLS OR FULL HEIGHT INTERIOR BEARING WALL SHEARWALLS. CONFIGURATIONS OF ANY COMPLEX SHALL NOT EXCEED SQUARE FOOTAGE LIMITATIONS SET FORTH IN "TABLE 503" (use group B or E, type VB) OF THE 2012 Ed. IBC AND NFPA 101-2012. EGRESS REQUIREMENTS MUST BE MET IN ALL CONFIGURATIONS IN ACCORDANCE WITH CHAPTER 10 OF THE 2012 Ed. OF THE IBC AND NFPA 101-2012. THE MINIMUM REQUIRED PLUMBING FIXTURES MUST BE OBTAINABLE IN ALL CONFIGURATIONS ACCORDING TO THE 2012 Ed. IPC AND THE 2013 LSPC.

MOBILE MODULAR MANAGEMENT MOD POD (12 CLASSROOMS) NOMINAL SIZE 156 X 72 (68)

FRONTAGE INCREASE CALCULATION

BUILDING SQFT = 10415 / 9000 ALLOWABLE SQFT

$$I_f = [F / P - 0.25] W / 30$$

$$I_f = [200 / 445 - 0.25] 30 / 30$$

$$I_f = [.20] 1$$

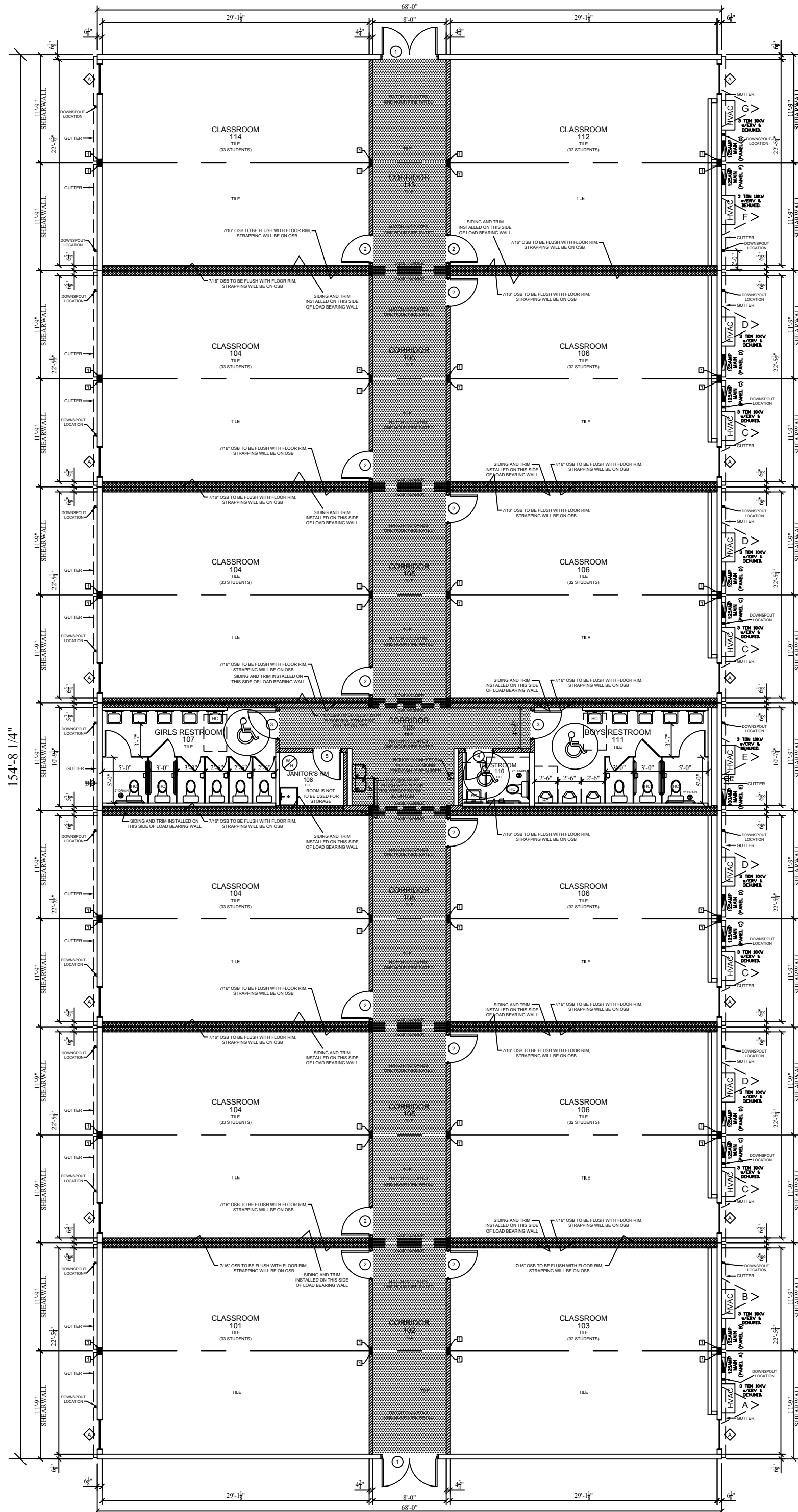
BUILDING AREA INCREASE CALCULATION

$$A_a = \{ A_t + [A_t \times I_f] + [A_t \times I_s] \}$$

$$A_a = \{ 9000 + [9000 \times .20] + [9000 \times 0] \}$$

$$9000 + 1800 + 0$$

$$A_a = 10800 \text{ SQFT}$$



1 FLOOR PLAN
3/32"=1'-0" SQUARE FOOTAGE: 10415 SF
OCCUPANCY LOAD: 398

DATA PLATE

MANUFACTURE & ADDRESS (FOR WARRANTY INFORMATION) INDICOM BUILDING, INC. 721 N. Burleson Blvd. BURLESON, TX. 76028 IHM - 47 LAIB-M00002

DRAT AGENCY: PFS Corporation ADDRESS: Cottage Grove, WI.

SERIAL NO.

DECAL NO.

FIRE MARSHAL PLAN REVIEW NO.

DATE OF MFG.

NO OF MODULES.

FLOOR LIVE LOAD. 50 psf. (2000 lb concentrated) (100 psf. @ corridor)

WIND LOAD (V3s). 2012 IBC - 170 MPH (ULT) EXP. C OCCUPANCY CATEGORY II AND III

ROOF LIVE LOAD. 20 psf.

ROOF DEAD LOAD. 10 psf.

TYPE OF CONSTRUCTION. VB

OCCUPANCY USE GROUP. SUITABLE FOR USE WITH E OR B CLASSROOMS

APPROVED FOR FLOOD ZONE USAGE: NO FLOOD ZONE INDICATED

PERMISSABLE GAS (for equip.) N/A

NAME AND DATE OF CODES:

LA: 2012 IBC, 2013 LSPC, 2012 IMC, 2011 NEC, 2012 IFGC, NFPA 101-2012, 2010 ADAAG, ASHRAE 90.1-2007

SYSTEMS COMPLETED AT FACTORY:
STRUCTURAL (X) ELECTRICAL (X) PLUMBING (X) HVAC (X)

SPECIAL CONDITIONS/LIMITATIONS: 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.

HEATING EQUIP. MFG.

HEATING MODEL.

SEISMIC DESIGN CATEGORY. C

NOTE: DATA PLATE TO BE LOCATED ON PANEL BOX DOOR OR SHALL BE PLACED ON THE INTERIOR SIDE OF THE EXTERIOR WALL @ THE HITCH END ABOVE THE T-GRID LOCATION.

FLOOR PLAN LEGEND

	INDICATES 1 HOUR FIRE RATED (WP3605) FULL HEIGHT WALL
	INDICATES FULL HEIGHT LOAD BEARING WALL TO BOTTOM OF RAFTERS
	HANDICAP ELONGATED TANK TYPE WATER CLOSET WITH SHUT OFF VALVE
	ELONGATED TANK TYPE WATER CLOSET WITH SHUT OFF VALVE
	36" GRAB BAR
	42" GRAB BAR
	TOILET PAPER DISPENSER
	LAVATORY 19" X 17" WHITE VITREOUS WALL HUNG w/ADA HANDLES
	24" X 24" MOLDED MDP BASIN WITH WALL MOUNTED FAUCET
	WALL HUNG SPLIT-LEVEL HANDICAP REFRIGERATED WATER COOLER w/APRON
	WALL HUNG WHITE VITREOUS WITH COMMERCIAL GRADE FLUSH VALVE
	MODESTY PARTITIONS OR URINAL SCREEN
	FROST PROOF HOSE BIBB WITH BACK FLOW PREVENTER
	20 GALLON ELECTRIC WATER HEATER w/VACUUM RELIEF AND DRAIN PAN



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PROJECT: VARIABLE UNIT COMPLEX MOD POD
PROJECT NUMBER: _____

SCALE: AS NOTED
PLOT DATE: 5/9/2018
SALESMAN: RP
DRAWN BY: ----
STATES: TX/LA/OKAR
SERIAL NUMBERS: ----
REVISIONS:

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INDICOM BUILDINGS, INC.

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BURLESON, TX 76028

STRUCTURAL CALCULATIONS
COVER SHEET

Job Name or Description: **MOD POD Classroom Complexes**

<u>Page #:</u>	<u>Description:</u>
1	Texas Roof Snow Loads
2	Rafters
3, 4	Studs
5	Sidewall Uplift
6, 7	Headers
8	Plywood Modline Beam
9	Modline Posts
10	Post Uplift
11, 12, 13	Floor Joists
14 thru 18	Lateral Analysis



All calculations are done in compliance with the requirements of the 2012 International Building Code and it's applicable referenced standards.

DESIGN LOADS: Roof Snow Load: 15 psf
Roof Live Load: 20 psf
Floor Live Load: 50/100 psf (2000# Concentrated)
Wind Load: 170 mph Exp C
Seismic: Ss = 0.5
S1 = 0.236
Site Class: D
Risk Category: II and III (Less than or greater that 250 occ)
Seismic Design Category: C

A handwritten signature in red ink, appearing to read "John L. Whitaker".

①

GROUND SNOW LOADS

Design Ground Snow Load, p_g =	15	psf	(Figure 7-1, ASCE 7-10)
Exposure, C_e =	1		(Partial Exposure, Terrain Category B or C)
Thermal Factor, C_t =	1		(Typical)
Importance Factor, I =	1		
Roof Snow Load, p_f =	10.5	psf	$(p_g \times C_e \times C_t \times I \times 0.7 = p_f)$
Min. Roof Snow Load, p_m =	15	psf	
Use Roof Snow Load =	15	psf	

Rain on Snow Surcharge:

Rain on snow surcharge only applies to 20 psf or less roof snow load buildings when the roof slope in degrees is greater than $W/50$. A 1/4 on 12 pitched roof would have to have over a 59' slope length for this to happen. This only occurs on the rare module single sloped roof.



RAFTERS

5/10/2018

Roof Snow Load =	15	psf	Member: <div>3</div>	OK	
Roof Live Load =	20	psf	Try: 2"x8"		
Roof Dead Load =	10	psf			
Wind Speed =	170	mph			
Exposure =	C		Load Duration, Cd =	1.25 (Vertical)	
Assumed Rafter Length =	11.75	ft.	Cd =	1.6 (Wind)	
Spacing Zone 1 (Field) =	16	inches o.c.	b =	1.5 inches	
Spacing Zone 2 (Edge) =	16	inches o.c.	d =	7.25 inches	
Spacing Zone 3 (Corner) =	16	inches o.c.	S =	13.14 in3	
Roof Pitch =	0	:12	l =	47.63 in4	
Importance Factor, I =	1	(1.0 most bldgs, 1.15 essential or high occupancy buildings)			
Overhang?	No	(Yes or No)			
Effective Wind Area =	46	ft2	2	20	50
Roof Slope =	0.00	degrees	0		
Exposure Coefficient =	1.21				
Zone 1 (Field) Wind Factor =	-50.85	-49.05	(Figure 6-3)	Zone 1 Wind Load =	-59.6 psf
Zone 2 (Edge) Wind Factor =	-78.2	-65.9	(Figure 6-3)	Zone 2 Wind Load =	-81.7 psf
Zone 3 (Corner) Wind Factor =	-109.1	-79.2	(Figure 6-3)	Zone 3 Wind Load =	-100.6 psf

Critical Load Combinations:

D + S =	33.33	plf
D + L =	40.00	plf
0.6D + W1 =	39.71	plf (Zone 1 - Field)-ASD
0.6D + W2 =	57.37	plf (Zone 2 - Edge)-ASD
0.6D + W3 =	72.50	plf (Zone 3 - Corners)-ASD
0.5D+L =	33.33	plf (Deflection Only)
W1 =	26.67	plf (Deflection Only)
S =	20	plf (Deflection Only)

Grade: 12	Try:	2x8SYP#2	1
Fb =	925	psi	Cf = 1
E =	1400000	psi	Cr = 1.15
Fv =	175	psi	

Checking Bending:

	Actual		Allowed		
Snow Load Only:	fb = 525	psi	Fb = 1330	psi	OK 0.395
Live Load Only:	fb = 630	psi	Fb = 1330	psi	OK 0.474
Wind Zone 1:	fb = 626	psi	Fb = 1702	psi	OK
Wind Zone 2:	fb = 904	psi	Fb = 1702	psi	OK
Wind Zone 3:	fb = 1143	psi	Fb = 1702	psi	OK

Checking Shear:

	Actual		Allowed		
Snow Load Only:	fv = 24	psi	Fv = 219	psi	OK
Live Load Only:	fv = 29	psi	Fv = 219	psi	OK
Wind Zone 1:	fv = 29	psi	Fv = 280	psi	OK
Wind Zone 2:	fv = 42	psi	Fv = 280	psi	OK
Wind Zone 3:	fv = 53	psi	Fv = 280	psi	OK

Checking Deflection:

	Actual		Allowed		
Snow Load:	d = 0.129	in	D = 0.588	in	OK
Vertical Total Load:	d = 0.214	in	D = 0.783	in	OK
Vertical Live Load:	d = 0.171	in	D = 0.588	in	OK
Wind Zone 1:	d = 0.107	in	D = 0.588	in	OK
Wind Zone 2:	d = 0.155	in	D = 0.588	in	OK
Wind Zone 3:	d = 0.196	in	D = 0.588	in	OK

USE: 2"x8"	2x8SYP#2	OK
@	16 inches o.c.	(FIELD)
@	16 inches o.c.	(EDGE)
@	16 inches o.c.	(CORNER)

- Note #1: Make sure the member size which appears in cell E31 for SYP matches the member size in cell G7
- Note #2: Above shown rafter length must be greater than the actual module width minus 4".
- Note #3: The roof dead load is the weight of the materials used to make up the roof. I.e.- rafters, decking, finished roofing, suspended ceiling.
- Standard 20 or 30 psf roof live load: 8 psf
 - 40 to 60 psf Snow Loads: 12 psf
 - 80 to 100 psf Snow Load: 15 psf
 - Add 3 psf for each layer of drywall on the roof

John L. Whitaker

EXTENSION WALLS

(3)

STUD CALCULATIONS

5/10/2018

Member: 2
Grade: 11

Try: 2"x6"
Try: 2x6SYP#2

OK
OK
OK

Roof Snow Load = 15 psf
Roof Live Load = 20 psf
Roof Dead Load = 10 psf
Wind Speed = 170 mph
Wind Exposure = C
Importance Factor, I = 1
Stud Spacing (Zone 4) = 16 in. o.c.
Stud Spacing (Zone 5) = 16 in. o.c.
Stud Length = 129.5 in.
Assumed Rafter Span = 11.75 ft.

b = 1.5 in.
d = 5.5 in.
A = 8.25 in²
S = 7.56 in³
I = 20.80 in⁴

Fb = 1000 psi
E = 1400000 psi
Fc = 1400 psi
Bending, Cd = 1.6
Compression, Cd = 1.25
Bending, Cf = 1
Compression, Cf = 1
Cr = 1.15
Bending Cr = 1.15
Emin = 510000 psi
c = 0.8
L/d = 23.55
Fce = 756 psi
Fc* = 1750 psi
Cp = 0.384

Effective Wind Area = 38.8 ft²
Exposure Coefficient = 1.21
Zone 4 Wind Factor = -54.25 (Table 1609.6.2.1(2))
Zone 5 Wind Factor = -65.15 (Table 1609.6.2.1(2))

Field Wind Load, W4 = -52.5 plf - ASD
Corner Wind Load, W5 = -63.1 plf - ASD
Top Plate Total Load (4) = 235 lbs.
0.6 x DL (Zone 4) = 47 lbs.
Top Plate Total Load (5) = 235 lbs.
0.6 x DL (Zone 5) = 47 lbs.

Zone 4 Field Studs:

Zone 5 Field Studs:

Bending: fb = 1213 psi OK
Fb' = 1840 psi

Bending: fb = 1457 psi OK
Fb' = 1840 psi

Compression: fc = 28 psi OK
DL/S fc = 6 psi
Fc' = 672 psi

Compression: fc = 28 psi OK
DL/S fc = 6 psi
Fc' = 672 psi

Adjustment for shortest
Duration Factor: Fc* = 2240 psi
Cp = 0.310
Fc' = 694 psi

Adjustment for shortest
Duration Factor: Fc* = 2240 psi
Cp = 0.310
Fc' = 694 psi

COMBINED STRESS = 0.687 (Zone 4)
OK

COMBINED STRESS = 0.824 (Zone 5)
OK

MAXIMUM LENGTH = 129.5 inches

Deflection Check: Actual Deflection = 0.463 OK
Allowed L/120 = 1.079

Combined Deflection:

Siding Thickness = 0.375 inches
Trib. Width = 16 inches
Neutral Axis = 1.888 in. from top

Check Shear Flow: V = 340 lbs
Q = 10.20394737
I = 50.84 in⁴
q = 68.30 plf

6d box nails at 6" o.c. = 102 plf - OK

Combined I = 15.94 in⁴
Actual Deflection = 0.862 < 1.079
OK

USE: 2"x6"
2x6SYP#2
AT: 16 o.c. IN ZONE 4
AND: 16 o.c. IN ZONE 5

John L. Whitaker

INTERIOR MODULINE WALLS (BEARING)

4

STUD CALCULATIONS

5/10/2018

Member: 2
Grade: 11

Try: 2"x6"
Try: 2x6SYP#2

OK
OK
OK

Roof Snow Load = 15 psf
Roof Live Load = 20 psf
Roof Dead Load = 10 psf
Wind Speed = 0 mph
Wind Exposure = C
Importance Factor, I = 1
Stud Spacing (Zone 4) = 16 in. o.c.
Stud Spacing (Zone 5) = 16 in. o.c.
Stud Length = 129.5 in.
Assumed Rafter Span = 11.75 ft.

b = 1.5 in.
d = 5.5 in.
A = 8.25 in²
S = 7.56 in³
I = 20.80 in⁴

Fb = 1000 psi
E = 1400000 psi
Fc = 1400 psi
Bending, Cd = 1.6
Compression, Cd = 1.25
Bending, Cf = 1
Compression, Cf = 1
Cr = 1.15
Bending Cr = 1.15
Emin = 510000 psi
c = 0.8 (0.8 lumber, 0.9 GL)
L/d = 23.55 OK
Fce = 756 psi
Fc* = 1750 psi
Cp = 0.384

Effective Wind Area = 38.8 ft²
Exposure Coefficient = 1.21
Zone 4 Wind Factor = 0 (Table 1609.6.2.1(2))
Zone 5 Wind Factor = 0 (Table 1609.6.2.1(2))

Field Wind Load, W4 = 0.0 plf - ASD
Corner Wind Load, W5 = 0.0 plf - ASD
Top Plate Total Load (4) = 235 lbs.
0.6 x DL (Zone 4) = 47 lbs.
Top Plate Total Load (5) = 235 lbs.
0.6 x DL (Zone 5) = 47 lbs.

Zone 4 Field Studs:

Bending: fb = 0 psi OK
Fb' = 1840 psi

Compression: fc = 28 psi OK
DL/S fc = 6 psi
Fc' = 672 psi

Adjustment for shortest
Duration Factor: Fc* = 2240 psi
Cp = 0.310
Fc' = 694 psi

Zone 5 Field Studs:

Bending: fb = 0 psi OK
Fb' = 1840 psi

Compression: fc = 28 psi OK
DL/S fc = 6 psi
Fc' = 672 psi

Adjustment for shortest
Duration Factor: Fc* = 2240 psi
Cp = 0.310
Fc' = 694 psi

COMBINED STRESS = 0.002 (Zone 4)
OK

MAXIMUM LENGTH = 129.5 inches

COMBINED STRESS = 0.002 (Zone 5)
OK

Deflection Check: Actual Deflection = 0.000 OK
Allowed L/120 = 1.079

Combined Deflection:
Siding Thickness = 0.375 inches
Trib. Width = 16 inches
Neutral Axis = 1.888 in. from top

Check Shear Flow: V = 0 lbs
Q = 10.20394737
I = 50.84 in⁴
q = 0.00 plf
6d box nails at 6" o.c. = 102 plf - OK

Combined I = 15.94 in⁴
Actual Deflection = 0.000 < 1.079
OK

USE: 2"x6"
2x6SYP#2
AT: 16 o.c. IN ZONE 4
AND: 16 o.c. IN ZONE 5

John L. Whitaker

SIDEWALL UPLIFT

5/10/2018

Wind Speed =	170	mph	Roof Slope =	5	0
Exposure =	C	1.21	Single Wide?	No	
Roof Dead Load =	10	psf			
Module Width =	11.75	ft			
Importance Factor =	1				
Zone E Load =	-55.25	psf	a =	6	ft
Zone G Load =	-38.5	psf	2a =	12	ft
Zone E, Load to Sidewall =	-200.4	plf - ASD			
Zone G, Load to Sidewall =	-128.96	plf - ASD			

Use 1-1/2" x 30 ga. Strap with 6 - 6d box nails (2"x0.099" diam)

Check Strap Strength:	Ps =	466	lbs. (Max)
Staple Strength:	Pnails =	351	lbs. (44 lbs/nail)
Assume Strap Value =		351	lbs.

Zone E Spacing =	1.75	ft o.c.	Standard 16" o.c. - OK ✓
Zone G Spacing =	2.72	ft o.c.	

Rafter to Beam at Modline using ITW HT5 or Simpson 2.5A Connectors

	Pu =	455	lbs (Max)	
Zone E Spacing =	27.24	inches o.c.	Use at 16 inches o.c. - OK ✓	
Zone G Spacing =	42.34	inches o.c.	Use at 32 inches o.c. - OK	

EXTERIOR WALL HEADER

6

HEADER WITHOUT OVERHANG

5/10/2018

(Determines the Maximum Span Length of a Certain Size Header)

Roof Snow Load = 15
Roof Live Load = 20 psf
Roof Dead Load = 10 psf
Module Width = 11.75 ft.
Overhang Length = 0 inches
Deflection Criteria, L/ 240 (L/240 when supporting drywall ceiling)

Member: 19
Try: 3 - 2"x6"
b = 4.5 inches
d = 5.5 inches

w = 176.25 plf

Grade: 25 Try: 3-2X6SYP#2 1
Fb = 1000 psi Cf = 1
E = 1400000 psi Cfu = 1
Fv = 175 psi Cd = 1.25

Maximum Bending Length, Lb = 10.36 ft
Maximum Shear Length, Lv = 41.77 ft
Maximum Deflection Length, Ld = 10.33 ft

Maximum Header Span = 10.33 ft.

> 4'0" OK

HEADER WITH OVERHANG

(Determines the Maximum Span Length of a Certain Size Header)

Roof Snow Load = 15 psf
Roof Live Load = 20 psf
Roof Dead Load = 10 psf
Module Width = 11.75 ft.
Overhang Length = 12 inches
Deflection Criteria, L/ 240 (L/240 when supporting drywall ceiling)

Member: 19
Try: 3 - 2"x6"
b = 4.5 inches
d = 5.5 inches

w = 206.25 plf

Try: 3 - 2"x6" 3-2X6SYP#2
Fb = 1000 psi Cf = 1
E = 1400000 psi Cfu = 1
Fv = 175 psi Cd = 1.25

Maximum Bending Length, Lb = 9.57 ft
Maximum Shear Length, Lv = 35.83 ft
Maximum Deflection Length, Ld = 9.80 ft

Maximum Header Span = 9.57 ft.

John L. Whitaker

HEADER WITHOUT OVERHANG

5/10/2018

(Determines the Maximum Span Length of a Certain Size Header)

Roof Snow Load = 15
Roof Live Load = 20 psf
Roof Dead Load = 10 psf
Member: 20
Try: 3-2"x8"
b = 4.5 inches
d = 7.25 inches
Module Width = 11.75 ft.
Overhang Length = 0 inches
Deflection Criteria, L/ 240 (L/240 when supporting drywall ceiling)

w = 176.25 plf

Grade: 27 Try: 3-2x8SYP#2 1
Fb = 925 psi Cf = 1
E = 1400000 psi Cfu = 1
Fv = 175 psi Cd = 1.25

Maximum Bending Length, Lb = 13.13 ft
Maximum Shear Length, Lv = 55.06 ft
Maximum Deflection Length, Ld = 13.61 ft

Maximum Header Span = 13.13 ft.

7' 8" 0/16

HEADER WITH OVERHANG

(Determines the Maximum Span Length of a Certain Size Header)

Roof Snow Load = 15 psf
Roof Live Load = 20 psf
Roof Dead Load = 10 psf
Member: 20
Try: 3-2"x8"
b = 4.5 inches
d = 7.25 inches
Module Width = 11.75 ft.
Overhang Length = 12 inches
Deflection Criteria, L/ 240 (L/240 when supporting drywall ceiling)

w = 206.25 plf

Try: 3-2"x8" 3-2x8SYP#2
Fb = 925 psi Cf = 1
E = 1400000 psi Cfu = 1
Fv = 175 psi Cd = 1.25

Maximum Bending Length, Lb = 12.14 ft
Maximum Shear Length, Lv = 47.23 ft
Maximum Deflection Length, Ld = 12.92 ft

Maximum Header Span = 12.14 ft.

8

PLYWOOD BEAMS SPAN CALCULATIONS (no flanges)
APA SUPPLEMENT #5

5/10/2018

Proposed Span =	29.83	ft.	Wind Speed =	170	MPH	29
Module Width =	11.75	ft.	Wind Exposure =	C		0
Roof Snow Load =	15	psf				
Roof Live Load =	20	psf				
Roof Dead Load =	10	psf	Beam Slope =	0.25	:12	3
Wind Uplift =	-66.8525	psf	Slope Type:	C	C = Complex	2
Beam Heel Depth =	24	in.	Importance Factor =	1	S = Single Slope	
Beam Layers =	3	1	Module Length =	68	ft.	

3/4 INCH 48/24 RATED SHEATHING 5L/5P PLYWOOD

tb=	0.352	in.	Lb=	31.77	ft.
ts=	0.739	in.	Lv=	95.52	ft.
Fb=	3300	psi	Lb/180=	2.12	in.
Fv=	190	psi	Actual=	1.75	in.
E=	1980000		Lv/180=	6.37	in.
G=	82000		Actual=	137.61	in.
LDF=	1.25		If L =	29.83	ft.
Wind, w =	236	plf -ASD	1.37	= L/	262
Live, w =	176	plf	0.68	= L/	523
Snow, w =	147	plf			
Effective, w =	147	plf (w/LDF)	0.7	0.96	= L/ 372
c=	12	in.			
ln=	811	in.4			
lt=	1217	in.4			
Q=	76				
K=	1.2				
As=	53.21	in.2			

MAXIMUM RIDGE BEAM SPAN:
31.77 ft.
Peak Depth = 32.5 inches

OK

DEFLECTION CRITERIA:
262 >= 180
523 >= 240
372 >= 240

OK

OK

OK

Note #1: Above plywood values assume the use of - 1/2" Struct. I, 5 layer, 5 ply plywood for Phoenix.

- 23/32" APA Rated Sheathing, 48/24, 5 layer / 5 ply for all Texas Plants (Group 1 species lumber)

Note #2: The roof dead load is the weight of the materials used to make up

the roof. I.e.- rafters, decking, finished roofing, beam, suspended ceiling.

- Standard 20 or 30 psf roof live load: 10 psf
- 40 to 60 psf Snow Loads: 14 psf
- 80 to 100 psf Snow Load: 18 psf
- Add 3 psf for each layer of drywall on the roof

	w =	147	plf							
	R =	2197	lbs							
Distance from Post (ft)	Beam Depth (in)	Shear Area (in)	S (in3)	I (in4)	V (lbs.)	fv (psi)	M (lbs-in)	fb (psi)		
1	24.25	53.76	69.0	1255	2049	38.12	25477	369	OK	
2	24.5	54.32	70.4	1294	1902	35.02	49187	698	OK	
3	24.75	54.87	71.9	1334	1755	31.98	71130	990	OK	
4	25	55.43	73.3	1375	1608	29.01	91305	1245	OK	
5	25.25	55.98	74.8	1417	1460	26.09	109712	1467	OK	
6	25.5	56.53	76.3	1459	1313	23.23	126352	1656	OK	
7	25.75	57.09	77.8	1502	1166	20.42	141225	1815	OK	
8	26	57.64	79.3	1547	1018	17.67	154331	1946	OK	
9	26.25	58.20	80.9	1592	871	14.97	165668	2049	OK	
10	26.5	58.75	82.4	1638	724	12.32	175239	2127	OK	
11	26.75	59.30	84.0	1684	577	9.72	183042	2180	OK	
12	27	59.86	85.5	1732	429	7.17	189078	2211	OK	
13	27.25	60.41	87.1	1781	282	4.67	193346	2219	OK	
14	27.5	60.97	88.7	1830	135	2.21	195847	2207	OK	
15	27.75	61.52	90.4	1880	13	0.20	196581	2176	OK	
16	28	62.08	92.0	1932	160	2.57	195547	2126	OK	
17	28.25	62.63	93.6	1984	307	4.90	192745	2058	OK	
18	28.5	63.18	95.3	2037	454	7.19	188176	1974	OK	
19	28.75	63.74	97.0	2091	602	9.44	181840	1875	OK	
20	29	64.29	98.7	2146	749	11.65	173737	1761	OK	
21	29.25	64.85	100.4	2202	896	13.82	163866	1632	OK	
22	29.5	65.40	102.1	2259	1044	15.96	152227	1491	OK	
23	29.75	65.96	103.8	2317	1191	18.05	138821	1337	OK	
24	30	66.51	105.6	2376	1338	20.12	123648	1171	OK	

Snow, w =	146.9	plf				
LDF =	1.6		fv max =	38.12	fb max =	2219
Center =	14.915	in	Fv =	238	Fb =	4125
As =	88.7	in2		OK		OK
lt =	1830	in4				
L.L. Deflection at Center =	0.97	in	= L/	367	OK	
S.L. Deflection at Center =	0.49	in	= L/	735	OK	

REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: JOHN L. WHITAKER, ARCHITECT

John L. Whitaker

9

RIDGE BEAM POSTS

(No Lateral Loading)

5/10/2018

COLUMN FORMULAS COMPLY WITH THE 2015 NDS REQUIREMENTS.
SPREADSHEET CALCULATES THE MAXIMUM COLUMN LOAD.

Member: 13
Grade: 18
b = 4.5
d = 3.5
Orientation = 2 (1 = parallel, 2 = perpendicular)
Fc = 1450 psi
E = 1400000 psi
(Least Radius) d = 3.5 inches
b = 4.5 inches
Length Factor = 1
Le = 97 inches
Kf = 1
L/d = 27.71
Fce = 546
Fc* = 1668 psi
Try: 3 - 2"x4"
Try: 3-2x4SYP#2
Length = 97 inches
Snow?: Y
Cd = 1.15
Cm = 1 (Usually 1.0)
Ct = 1 (Usually 1.0)
Cf = 1
Emin = 510000
c = 0.8 (Usually 0.3, 0.418 for glulams)
(0.8 for lumber, 0.9 for glulam)
Cp = 0.3013
Allowable Fc' = 502 psi
Pall = 7914 lbs.

Bearing Stresses (If Applicable):

Plywood or Sill Plate Bearing? 2 (1 = Plywood, 2 = Sill Plate)
Sill Plate Grade = 8 2x4SYP#2
Allowable Plywood Bearing = 340 psi
Fcp = 585 psi
Area = 15.75 in2
Cb = 1.08
Allowable Bearing Load = 9982 lbs.

ALLOWABLE LOAD = 7914 LBS.

> 5779# MAX. ✓

Tributary Ridge Beam Span:

Assumed Roof Dead Load = 10 psf

Module Widths	Roof Live Load	
	20 psf	30 psf
10 ft.	52.76 ft.	39.57 ft.
11.75 ft.	44.90 ft.	33.68 ft.
13.75 ft.	38.37 ft.	28.78 ft.
15 ft.	35.17 ft.	26.38 ft.

$\frac{30' + 8'}{2} = 19' < 44.90'$
OK

- Note #1: When using SYP lumber, make sure the member size in cell F8 matches the member size in F7.
- Note #2: The post orientation as determined by cell C11 is critical. The user of this spreadsheet must understand which orientation is critical for the post location under consideration. Post normally will buckle in the direction of the least dimension. The orientation should be changed so that the smallest number appears in cell C14. However, when the least dimension runs parallel to a wall in which the post is located, the least radius will then be the larger number.
- Note #3: For roof loads other than those shown above, use the below equation:

$$(\text{Allowable Load}) \times 2 / (\text{Module Width}) / (\text{Roof Live Load} + \text{Dead Load})$$

- Note #4: The tributary ridge beam span is equal to the sum of the spans along the ridge beam on each side of the post under consideration divided by 2.

John L. Whitaker

(10)

POST UPLIFT LOADS

5/10/2018

Wind Speed = 170 mph
 Exposure = C 1.21
 Roof Dead Load = 10 psf
 Module Width = 11.75 ft
 Wind Importance = 1
 Zone E Load = -55.25 psf
 Zone G Load = -38.5 psf
 Roof Slope = 5 0
 a = 6 ft
 2a = 12 ft
 Zone E, Load to Beam = -200.4 plf - ASD
 Zone G, Load to Beam = -128.96 plf - ASD

Post Locations	Spacing Between Posts, ft		
1	29.83	-2608	lbs.
2	8.34	-2634	lbs.
3	29.83	-2461	lbs.
4	0	-2608	lbs.
5	0	0	lbs.
6	0	0	lbs.
7	0	0	lbs.
Total =	68	ft	

			<u># of Straps</u>	<u># of #8 Screws</u>	
Post #1 =	-2608	lbs.	2	10	(2) CS16 straps w/ 10-#8
Post #2 =	-2634	lbs.	2	10	(2) CS16 straps w/ 10-#8
Post #3 =	-2461	lbs.	2	10	(2) CS16 straps w/ 10-#8
Post #4 =	-2608	lbs.	2	10	(2) CS16 straps w/ 10-#8
Post #5 =	0	lbs.	0	0	
Post #6 =	0	lbs.	0	0	
Post #7 =	0	lbs.	0	0	

Simpson CS Coil Straps = 1705 lbs (CS20 = 1030#, CS18 = 1370#, CS16 = 1705#, Alpine 1-1/4"x18 Ga = 1003# HRS12 = 1415#)

#8 Screw Capacity = 157 lbs each (200# for #10 screws in 16 ga. strap)

Uplift Capacity

	1 Strap	2 Straps	3 Straps	4 Straps
5-#8 screw	785	1570	2355	3140
6-#8 screw	942	1884	2826	3768
7-#8 screw	1099	2198	3297	4396
8-#8 screw	1256	2512	3768	5024
9-#8 screw	1413	2826	4239	5652
10-#8 screw	1570	3140	4710	6280
11-#8 screw	1705	3410	5115	6820



50 psf

(11)

I-BEAM CHASSIS FLOOR JOIST

5/10/2018

LOAD PROPERTIES

Building Width =	11.75	ft.	Floor L.L. =	50	psf
I-Beam Spacing =	99.5	inches	Floor D.L. =	10	psf
Roof L.L. =	20	psf	Partition Load =	15	psf
Roof D.L. =	10	psf	Concentrated Load =	2000	lbs.
Wall D.L. =	10	psf	# of Effective Joists =	3	(Under Conc. Load)
Wall Height =	11	ft.	Joist Spacing =	16	in. o.c.

OK

Sim-U	OK
Sim-C	OK
OH-U	OK
OH-C	OK

1

JOIST PROPERTIES

Member:	3	Try:	2"x8"	2x8SYP#2
Grade:	12	at	16	in. o.c.
b =	1.50	in.	Fb =	925 psi
d =	7.25	in.	Fv =	175 psi
A =	10.88	in ²	E =	1400000 psi
S =	13.14	in ³	Cf =	1
I =	47.63	in ⁴	Cr =	1.15

Methodology assumes simply supported center span and fixed end supported cantilevered span.

SIMPLE SPAN**UNIFORM LOADING ONLY**

	w =	100	plf				
Bending:	M =	10313	in-lbs				
	fb =	785	psi	<	1064	psi	OK 0.738
Shear:	V =	354	lbs				
	fv =	49	psi	<	175	psi	OK 0.279
T.L. Deflection, d =	0.159	in.	= L/	624		OK	
L.L. Deflection, d =	0.106	in.	= L/	936		OK	

CONCENTRATED LOAD


	w =	22	pli				
Bending:	M =	14083	in-lbs				
	fb =	1072	psi	<	Fb = 1064	psi	OK 1.008
Shear:	V =	333	lbs				
	fv =	69	psi	<	Fv = 175	psi	OK 0.394

CANTILEVERED SPANS**UNIFORM LOADING ONLY**

	w =	100	plf				
	P =	382	lbs.				
Overhang Length =	20.75	inches					
Bending:	M =	9046	psi				
	fb =	688	psi	<	Fb = 1064	psi	OK 0.647
Shear:	V =	494	lbs				
	fv =	68	psi	<	Fv = 175	psi	OK 0.389
T.L. Deflection, d =	0.011	in.	= L/	1857		OK	
L.L. Deflection, d =	0.011	in.	= L/	1833		OK	

CONCENTRATED LOAD

	w =	22	pli				
	PdI =	225	lbs				
Bending:	M =	7581	in-lbs				
	fb =	577	psi	<	Fb = 1064	psi	OK 0.542
Shear:	V =	447	lbs				
	fv =	62	psi	<	Fv = 175	psi	OK 0.352



100 psf

(12)

I-BEAM CHASSIS FLOOR JOIST

5/10/2018

LOAD PROPERTIES

Building Width =	11.75	ft.	Floor L.L. =	100	psf
I-Beam Spacing =	99.5	inches	Floor D.L. =	10	psf
Roof L.L. =	20	psf	Partition Load =	0	psf
Roof D.L. =	10	psf	Concentrated Load =	2000	lbs.
Wall D.L. =	10	psf	# of Effective Joists =	3	(Under Conc. Load)
Wall Height =	11	ft.	Joist Spacing =	16	in. o.c.

JOIST PROPERTIES

Member:	3	Try:	2"x8"	2x8SYP#2
Grade:	12	at	16	in. o.c.
b =	1.50	in.	Fb =	925 psi
d =	7.25	in.	Fv =	175 psi
A =	10.88	in2	E =	1400000 psi
S =	13.14	in3	Cf =	1
I =	47.63	in4	Cr =	1.15

Sim-U	NG
Sim-C	OK
OH-U	OK
OH-C	OK

1

Methodology assumes simply supported center span and fixed end supported cantilevered span.

SEE Pg. (13)

SIMPLE SPAN**UNIFORM LOADING ONLY**

	w =	147	plf				
Bending:	M =	15125	in-lbs				
	fb =	1151	psi	<	1064	psi	NG
Shear:	V =	519	lbs				
	fv =	72	psi	<	175	psi	OK
T.L. Deflection, d =	0.234	in.	= L/	425			OK
L.L. Deflection, d =	0.213	in.	= L/	468			OK

CONCENTRATED LOAD

	w =	22	pli				
Bending:	M =	14083	in-lbs				
	fb =	1072	psi	<	Fb =	1064	psi
Shear:	V =	333	lbs				
	fv =	69	psi	<	Fv =	175	psi
							OK
							1.008
							0.394

CANTILEVERED SPANS**UNIFORM LOADING ONLY**

	w =	147	plf				
	P =	382	lbs.				
Overhang Length =	20.75	inches					
Bending:	M =	9883	psi				
	fb =	752	psi	<	Fb =	1064	psi
Shear:	V =	547	lbs				
	fv =	75	psi	<	Fv =	175	psi
T.L. Deflection, d =	0.012	in.	= L/	1755			OK
L.L. Deflection, d =	0.012	in.	= L/	1695			OK

CONCENTRATED LOAD

	w =	22	pli				
	PdI =	225	lbs				
Bending:	M =	7581	in-lbs				
	fb =	577	psi	<	Fb =	1064	psi
Shear:	V =	447	lbs				
	fv =	62	psi	<	Fv =	175	psi
							OK
							0.542
							0.352



100psf (cont.)

(13)

STRESS SKIN PANEL FLOORS

Design according to APA Plywood Design Specification, Supplement 3.

At the very least, the plywood decking on top of the wood floor joist changes the location of the bending neutral axis as the floor system bends and deflects with the decking attached. This calculation attempts to verify the impact of this change in the axis of bending and it's changes to the extreme bending fiber locations.

Floor Joist Info:

Member: 3 2"x8"
 Grade: 12 2x8SYP#2
 16 in o.c. (effective)
 b = 1.5 inches
 d = 7.25 inches
 A = 10.875 in²
 I = 47.635 in⁴
 E = 1400000 psi

Plywood Top Skin

23/32 STURD-I-FLOOR (APA - PDS)
 A II = 2.715 in²/ft
 I II = 0.193 in⁴/ft
 I perp = 0.032 in⁴/ft
 t = 0.719 in
 L = 99.5 inches

Fb = 1650 psi
 Ft = 1650 psi
 Fc = 1540 psi
 E = 1800000 psi

Neutral Axis for Deflection:

	E	A II	A II x E	y bottom	A II x E x y
Top Skin	1800000	3.620	6516000	7.610	49583502
Stringer	1400000	10.875	15225000	3.625	55190625
		14.495	21741000		104774127

y = 4.819 inches from bottom

Stiffness:

	E	I	A II	d	d ²	A II x d ²	I + A II x d ²
Top Skin	1800000	0.2573	2.816	2.7903	7.786	10.601	10.859
Stringer	1400000	47.63	10.875	1.1942	1.426	12.301	59.94

I_g = 70.795 in⁴

S top = 22.476 in³
 S bottom = 14.690 in³
 Q = 14.533 in³
 I = 70.795 in⁴
 q = 2028.73 plf

Bending Between Mailrails:

1
 M = 15125 in-lbs 800
 Sadj = 14.69 in³ 1.1
 f_b = 1030 psi
 F_b = 1064 psi OK

Bending at Outriggers:

M = 9883 in-lbs
 S = 13.14 in³
 f_b = 752 psi
 F_b = 1064 psi OK

OK

Note: No increase in section properties for bending at outrigger

Bending at Outrigger (panel edge blocking required)

M = 9883 in-lbs
 S = 22.48 in³
 f_b = 440 psi
 F_b = 1064 psi OK

These values can only be used when glue blocking is added to all panel edges above the outrigger area.



COMMERCIAL MODULAR LATERAL ANALYSIS

DOUBLE
WIDE

5/10/2018

14

Building Properties:

Number of Modules:	2
Module Width:	11.75 ft.
Module Length:	68 ft.
Sidewall Height:	11.25 ft.
Parapet Height:	0 ft.
Roof Slope:	0 :12 inches
Roof Dead Load:	10 psf
Roof Live Load:	20 psf
Ext. Wall Dead Load:	10 psf
Endwall Overhang:	0 inches
Sidewall Overhang:	0 inches

Design Loads:

Basic Wind Speed:	170	29
Exposure:	C	1.21
Importance Factor:	1	Wind
	1.25	Seismic
State:	10	
Coverage:	Most	(Most, All)
Box or Rigid Frame?	Box	
Occupancy Category:	3	(1,2, or 3)

Roof Diaphragm Info

Sheathing:	0.5 in. thick	-17.9
	(.4375" OR 0.5")	
	3	4

Shearwall Lengths:

Endwall 1:	19 ft.	N	1
Endwall 2:	13.62 ft.	N	1
Sidewall 1:	60 ft.	N	1
Sidewall 2:	60 ft.	N	1

Double Sided Shearwall?

Exterior Siding Code:

- 2
- 3
- 1 3/8" Plywood or OSB
- 3 7/16" Plywood or OSB
- 5 15/32" Plywood or OSB
- 7 3/8" LP Smartside Siding
- 9 7/16" LP Smartside Siding

Wind Design

Roof Slope =	0.00	degrees	0
Peak Roof Height =	11.25	ft.	
Peak Wall Height =	11.25	ft.	
Roof Ext. Height =	0.00	ft.	
Exposure Factor =	1.21		
Risk Factor =	1		
Least Bldg. Dim =	23.5	ft.	
	2.35	3	
a =	3	ft.	
End Zone Size =	6.0	ft.	
Sidewall:			
Int. Zone, W _i =	125	plf-ASD	
End Zone, W _e =	188	plf-ASD	
Load to Shearwall =	4598	lbs.	
Min. Load to SW =	1913	lbs.	
Endwall:			
Int. Zone, W _i =	125	plf-ASD	
End Zone, W _e =	188	plf-ASD	
Load to Shearwall =	1795	lbs.	
Min. Load to SW =	661	lbs.	

Seismic Design (ASD)

S _s =	0.5	
S ₁ =	0.236	
R =	6.5	
Roof Diaphragm Dead Load, W =	26274	lbs.
Seismic Response Coefficient, C _s =	0.0897	x W _d
A.S.D. - 0.7xQ _E =	0.063	x W _d
Total Seismic Load, E _h =	1651	lbs.

F _a =	1.40	(Assume Site Class D)
F _v =	1.8	
S _{ds} =	0.467	C 3
S _{d1} =	0.283	D 4
T _a =	0.152	<12.8-3 0.238 OK
C _u =	1.5	>12.8-5 0.01 OK
T =	0.229	>12.8-6 0.0227 OK
Adj. S _{ds} =	0.467	

SEISMIC DESIGN CATEGORY C

Wind Design Intermediate Values

End Zone Wall (A) =	46	psf
End Zone Roof (B) =	0	psf
Int. Zone Wall (C) =	30.5	psf
Int. Zone Roof (D) =	0	psf
End Zone Uplift (E) =	-55.25	psf
End Zone Uplift (F) =	-31.4	psf
Int. Zone Uplift (G) =	-38.5	psf
Int. Zone Uplift (H) =	-24.35	psf

Total Wind Shear at Shearwall:

At Endwall, V _x =	4598	lbs.
At Sidewall, V _y =	1795	lbs.

Total Seismic Shear at Shearwall:

At Endwall, V _x =	825	lbs.
At Sidewall, V _y =	825	lbs.

9284.2338
156060
-501722.1
-86252.05
441198.35
7353.3058

Roof Diaphragm:

Diaphragm Unit Shear:

Seismic:	vx =	35	plf	1
	vy =	12	plf	1
Wind:	vx =	196	plf	1
	vy =	26	plf	1

Diaphragm Chord Tie:

Worst Case Location:	33.87	ft. from endwall
Sidewall Tie: T _{yy} =	3088	lbs.
Worst Case Location:	10.75	ft. from sidewall
Endwall Tie: T _{xx} =	135	lbs.

ROOF DIAPHRAGM NAILING: 6" o.c. Edge and 6" o.c. Field
UNBLOCKED DIAPHRAGM
2-1/4" x 0.113" Nails (min.)

Shearwalls:

Endwalls 1:

Seismic Load =	825	lbs.
Seismic Unit Shear =	49	plf
Wind Load =	4598	plf
Wind Unit Shear =	273	

Sidewalls 1:

Seismic Load =	825	lbs.
Seismic Unit Shear =	14	plf
Wind Load =	1795	lbs.
Wind Unit Shear =	30	plf

Shearwall Type: 4" o.c. Edge
6" o.c. Field

Shearwall Type: 6" o.c. Edge
6" o.c. Field

Endwalls 2:

Seismic Load =	825	lbs.
Seismic Unit Shear =	68	plf
Wind Load =	4598	plf
Wind Unit Shear =	381	

Sidewalls 2:

Seismic Load =	825	lbs.
Seismic Unit Shear =	14	plf
Wind Load =	1795	lbs.
Wind Unit Shear =	30	plf

Shearwall Type: 3" o.c. Edge
6" o.c. Field

Shearwall Type: 6" o.c. Edge
6" o.c. Field

Min. Endwall Shearwall Width, w =	4.54	ft.	h/w	2.26	2w/h	0.886	Endwall
Effective Endwall Height, h =	10.25	ft.					
Min. Sidewall Shearwall Width, w =	5.5	ft.	h/w	1.91	2w/h	1.000	Sidewalls
Effective Sidewall Height, h =	10.5	ft.					

Assumed Nail Size: 2" x 0.113" Nails Min.

SHEARWALL NOTES:

- Effective shearwall must have a height to width ratio of 3.5 to 1 or less. Only effective shearwalls should be used in the above shearwall lengths. Wall sections 3'-0" or greater shall be assumed as meeting this requirement.
- When 3/8" plywood is installed on the inside of the shearwall, enter "Y" in the Double Sided Shearwall section above.
- Wind analysis assumes enclosed buildings. This requires that buildings in Wind Borne Debris Regions (110 mph or greater) have opening protections. Either impact resistant glazing or approved impact resistant coverings.

DOUBLE WIDE CLASSROOM
MODULES ARE STRUCTURALLY
INDEPENDENT.

REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: JOHN L. WHITAKER, ARCHITECT

John L. Whitaker

COMMERCIAL MODULAR LATERAL ANALYSIS

7 MODULES

5/10/2018

15

6 CLASS ROOMS

Building Properties:

Number of Modules:	7
Module Width:	11.75 ft.
Module Length:	68 ft.
Sidewall Height:	11.25 ft.
Parapet Height:	0 ft.
Roof Slope:	0 :12 inches
Roof Dead Load:	10 psf
Roof Live Load:	20 psf
Ext. Wall Dead Load:	10 psf
Endwall Overhang:	0 inches
Sidewall Overhang:	0 inches

Design Loads:

Basic Wind Speed:	170	29
Exposure:	C	1.21
Importance Factor:	1	Wind
	1.25	Seismic
State:	10	
Coverage:	Most	(Must, All)
Box or Rigid Frame?	Box	
Occupancy Category:	3	(1,2, or 3)

Shearwall Lengths:

Endwall 1:	64.25 ft.	N	1
Endwall 2:	45.4 ft.	N	1
Sidewall 1:	62 ft.	N	1
Sidewall 2:	62 ft.	N	1

Double Sided Shearwall?

Exterior Siding Code:

- 3/8" Plywood or OSB
- 3/16" Plywood or OSB
- 15/32" Plywood or OSB
- 3/8" LP SmartSide Siding
- 9/16" LP SmartSide Siding

Wind Design

Roof Slope =	0.00	degrees	0
Peak Roof Height =	11.25	ft.	
Peak Wall Height =	11.25	ft.	
Roof Ext. Height =	0.00	ft.	
Exposure Factor =	1.21		
Risk Factor =	1		
Least Bldg. Dim =	68	ft.	
	5.7		
a =	5.7	ft.	
End Zone Size =	11.4	ft.	
Sidewall:			
Int. Zone, W _i =	125	plf-ASD	
End Zone, W _e =	188	plf-ASD	
Load to Shearwall =	4896	lbs.	
Min. Load to SW =	1913	lbs.	
Endwall:			
Int. Zone, W _i =	125	plf-ASD	
End Zone, W _e =	188	plf-ASD	
Load to Shearwall =	5794	lbs.	
Min. Load to SW =	2313	lbs.	

Seismic Design (ASD)

S _s =	0.5
S _i =	0.236
R =	6.5
Roof Diaphragm Dead Load, W =	72833 lbs.
Seismic Response Coefficient, C _s =	0.0897 x W _d
A.S.D. - 0.7xQ _E =	0.063 x W _d
Total Seismic Load, E _h =	4575 lbs.

F _a =	1.40	(Assume Site Class D)
F _v =	1.8	
S _{ds} =	0.467	C 3
S _{d1} =	0.283	D 4
T _a =	0.152	<12.8-3 0.238 OK
C _u =	1.5	>12.8-5 0.01 OK
T =	0.229	>12.8-6 0.0227 OK
Adj. S _{ds} =	0.467	

SEISMIC DESIGN CATEGORY C

Wind Design Intermediate Values

End Zone Wall (A) =	46	psf
End Zone Roof (B) =	0	psf
Int. Zone Wall (C) =	30.5	psf
Int. Zone Roof (D) =	0	psf

End Zone Uplift (E) =	-55.25	psf
End Zone Uplift (F) =	-31.4	psf
Int. Zone Uplift (G) =	-38.5	psf
Int. Zone Uplift (H) =	-24.35	psf

Total Wind Shear at Shearwall:

At Endwall, V _x =	4896	lbs.
At Sidewall, V _y =	5794	lbs.

Total Seismic Shear at Shearwall:

At Endwall, V _x =	2288	lbs.
At Sidewall, V _y =	2288	lbs.

Roof Diaphragm:

Diaphragm Unit Shear:

Seismic:	v _x =	28	plf	1
	v _y =	34	plf	1
Wind:	v _x =	60	plf	1
	v _y =	85	plf	1

Diaphragm Chord Tie:

Worst Case Location:	33.51	ft. from endwall
Sidewall Tie: T _{yy} =	900	lbs.
Worst Case Location:	38.79	ft. from sidewall
Endwall Tie: T _{xx} =	1576	lbs.

ROOF DIAPHRAGM NAILING: 6" o.c. Edge and 6" o.c. Field
UNBLOCKED DIAPHRAGM
2-1/4" x 0.113" Nails (min.)

Shearwalls:

Endwalls 1:

Seismic Load =	2288	lbs.
Seismic Unit Shear =	40	plf
Wind Load =	4896	plf
Wind Unit Shear =	86	plf

Sidewalls 1:

Seismic Load =	2288	lbs.
Seismic Unit Shear =	37	plf
Wind Load =	5794	plf
Wind Unit Shear =	93	plf

Shearwall Type: 6" o.c. Edge
6" o.c. Field

Shearwall Type: 6" o.c. Edge
6" o.c. Field

Endwalls 2:

Seismic Load =	2288	lbs.
Seismic Unit Shear =	57	plf
Wind Load =	4896	plf
Wind Unit Shear =	122	plf

Sidewalls 2:

Seismic Load =	2288	lbs.
Seismic Unit Shear =	37	plf
Wind Load =	5794	plf
Wind Unit Shear =	93	plf

Shearwall Type: 6" o.c. Edge
6" o.c. Field

Shearwall Type: 6" o.c. Edge
6" o.c. Field

Min. Endwall Shearwall Width, w =	4.54	ft.	h/w	2.26	2w/h	0.886	Endwall
Effective Endwall Height, h =	10.25	ft.					
Min. Sidewall Shearwall Width, w =	5.5	ft.	h/w	1.91	2w/h	1.000	Sidewalls
Effective Sidewall Height, h =	10.5	ft.					

Assumed Nail Size: 2" x 0.113" Nails Min.

SHEARWALL NOTES:

- Effective shearwall must have a height to width ratio of 3.5 to 1 or less. Only effective shearwalls should be used in the above shearwall lengths. Wall sections 3'-0" or greater shall be assumed as meeting this requirement.
- When 3/8" plywood is installed on the inside of the shearwall, enter "Y" in the Double Sided shearwall section above.
- Wind analysis assumes enclosed buildings. This requires that buildings in Wind Borne Debris Regions (110 mph or greater) have opening protections. Either impact resistant glazing or approved impact resistant coverings.

REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: JOHN L. WHITAKER, ARCHITECT

John L. Whitaker

COMMERCIAL MODULAR LATERAL ANALYSIS

9 MODULES

5/10/2018

8 CLASS ROOMS

16

Building Properties:

Number of Modules:	9
Module Width:	11.75 ft.
Module Length:	68 ft.
Sidewall Height:	11.25 ft.
Parapet Height:	0 ft.
Roof Slope:	0 :12 inches
Roof Dead Load:	10 psf
Roof Live Load:	20 psf
Ext. Wall Dead Load:	10 psf
Endwall Overhang:	0 inches
Sidewall Overhang:	0 inches

Design Loads:

Basic Wind Speed:	170	29
Exposure:	C	1.21
Importance Factor:	1	Wind
	1.25	Seismic
State:	10	
Coverage:	Most	(Must, All)
Box or Rigid Frame?	Box	
Occupancy Category =	3	(1,2, or 3)

Roof Diaphragm Info

Sheathing:	0.5 in. thick	-17.9
	(.4375" OR 0.5")	
	3	4

Shearwall Lengths:

Endwall 1:	83.25 ft.	N	1
Endwall 2:	59.02 ft.	N	1
Sidewall 1:	62 ft.	N	1
Sidewall 2:	62 ft.	N	1

Double Sided Shearwall?

Exterior Siding Code:

- 3
1 3/8" Plywood or OSB
3 7/16" Plywood or OSB
5 15/32" Plywood or OSB
7 3/8" LP SmartSide Siding
9 7/16" LP SmartSide Siding

Wind Design

Roof Slope =	0.00 degrees	0
Peak Roof Height =	11.25 ft.	
Peak Wall Height =	11.25 ft.	
Roof Ext. Height =	0.00 ft.	
Exposure Factor =	1.21	
Risk Factor =	1	
Least Bldg. Dim =	68 ft.	
	5.7	3
a =	5.7 ft.	
End Zone Size =	11.4 ft.	

Sidewall:		
Int. Zone, W _i =	125 plf-ASD	
End Zone, W _e =	188 plf-ASD	
Load to Shearwall =	4896 lbs.	
Min. Load to SW =	1913 lbs.	
Endwall:		
Int. Zone, W _i =	125 plf-ASD	
End Zone, W _e =	188 plf-ASD	
Load to Shearwall =	7269 lbs.	
Min. Load to SW =	2974 lbs.	

Seismic Design (ASD)

S _s =	0.5	
S ₁ =	0.236	
R =	6.5	
Roof Diaphragm Dead Load, W =	91457 lbs.	
Seismic Response Coefficient, C _s =	0.0897	x W _d
A.S.D. - 0.7xQ _E =	0.063	x W _d
Total Seismic Load, E _h =	5745 lbs.	

F _a =	1.40	(Assume Site Class D)
F _v =	1.8	
S _{ds} =	0.467	C 3
S _{d1} =	0.283	D 4
T _a =	0.152	<12.8-3 0.238 OK
C _u =	1.5	>12.8-5 0.01 OK
T =	0.229	>12.8-6 0.0227 OK
Adj. S _{ds} =	0.467	

SEISMIC DESIGN CATEGORY C

Wind Design Intermediate Values

End Zone Wall (A) =	46 psf
End Zone Roof (B) =	0 psf
Int. Zone Wall (C) =	30.5 psf
Int. Zone Roof (D) =	0 psf

End Zone Uplift (E) =	-55.25 psf
End Zone Uplift (F) =	-31.4 psf
Int. Zone Uplift (G) =	-38.5 psf
Int. Zone Uplift (H) =	-24.35 psf

Total Wind Shear at Shearwall:

At Endwall, V _x =	4896 lbs.
At Sidewall, V _y =	7269 lbs.

Total Seismic Shear at Shearwall:

At Endwall, V _x =	2873 lbs.
At Sidewall, V _y =	2873 lbs.

32317.694
156060
-501722.1
-86252.05
464231.81
7737.1968

Roof Diaphragm:

Diaphragm Unit Shear:

Seismic:	vx =	27 plf	1
	vy =	42 plf	1
Wind:	vx =	46 plf	1
	vy =	107 plf	1

Diaphragm Chord Tie:

Worst Case Location:	33.51 ft. from endwall
Sidewall Tie: T _{yy} =	700 lbs.
Worst Case Location:	50.42 ft. from sidewall
Endwall Tie: T _{xx} =	2587 lbs.

ROOF DIAPHRAGM NAILING: 6" o.c. Edge and 6" o.c. Field
UNBLOCKED DIAPHRAGM
2-1/4" x 0.113" Nails (min.)

Shearwalls:

Endwalls 1:

Seismic Load =	2873 lbs.
Seismic Unit Shear =	39 plf
Wind Load =	4896 plf
Wind Unit Shear =	66

Sidewalls 1:

Seismic Load =	2873 lbs.
Seismic Unit Shear =	46 plf
Wind Load =	7269 lbs.
Wind Unit Shear =	117 plf

Shearwall Type: 6" o.c. Edge
6" o.c. Field

Shearwall Type: 6" o.c. Edge
6" o.c. Field

Endwalls 2:

Seismic Load =	2873 lbs.
Seismic Unit Shear =	55 plf
Wind Load =	4896 plf
Wind Unit Shear =	94

Sidewalls 2:

Seismic Load =	2873 lbs.
Seismic Unit Shear =	46 plf
Wind Load =	7269 lbs.
Wind Unit Shear =	117 plf

Shearwall Type: 6" o.c. Edge
6" o.c. Field

Shearwall Type: 6" o.c. Edge
6" o.c. Field

Min. Endwall Shearwall Width, w =	4.54 ft.	h/w	2.26	2w/h	0.886	Endwall
Effective Endwall Height, h =	10.25 ft.					
Min. Sidewall Shearwall Width, w =	5.5 ft.	h/w	1.91	2w/h	1.000	Sidewalls
Effective Sidewall Height, h =	10.5 ft.					

Assumed Nail Size: 2" x 0.113" Nails Min.

SHEARWALL NOTES:

- Effective shearwall must have a height to width ratio of 3.5 to 1 or less. Only effective shearwalls should be used in the above shearwall lengths. Wall sections 3'-0" or greater shall be assumed as meeting this requirement.
- When 3/8" plywood is installed on the inside of the shearwall, enter "Y" in the Double Sided shearwall section above.
- Wind analysis assumes enclosed buildings. This requires that buildings in Wind Borne Debris Regions (110 mph or greater) have opening protections. Either impact resistant glazing or approved impact resistant coverings.

REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: JOHN L. WHITAKER, ARCHITECT

John L. Whitaker

COMMERCIAL MODULAR LATERAL ANALYSIS

11 MODULES
10 CLASSROOMS

5/10/2018

17

Building Properties:

Number of Modules:	11
Module Width:	11.75 ft.
Module Length:	68 ft.
Sidewall Height:	11.25 ft.
Parapet Height:	0 ft.
Roof Slope:	0 :12 inches
Roof Dead Load:	10 psf
Roof Live Load:	20 psf
Ext. Wall Dead Load:	10 psf
Endwall Overhang:	0 inches
Sidewall Overhang:	0 inches

Design Loads:

Basic Wind Speed:	170	29
Exposure:	C	1.21
Importance Factor:	1	Wind
	1.25	Seismic
State:	10	
Coverage:	Most	(Most, All)
Box or Rigid Frame?	Box	
Occupancy Category =	3	(1,2, or 3)

Roof Diaphragm Info

Sheathing:	0.5 in. thick
	(.4375" OR 0.5")
	3 4
	-17.9

Shearwall Lengths:

Endwall 1:	102.25 ft.	N	1
Endwall 2:	72.64 ft.	N	1
Sidewall 1:	62 ft.	N	1
Sidewall 2:	62 ft.	N	1

Double Sided Shearwall?

Exterior Siding Code:

- 1 3/8" Plywood or OSB
3 7/16" Plywood or OSB
5 15/32" Plywood or OSB
7 3/8" LP Smartside Siding
9 7/16" LP Smartside Siding

Wind Design

Roof Slope =	0.00 degrees	0
Peak Roof Height =	11.25 ft.	
Peak Wall Height =	11.25 ft.	
Roof Ext. Height =	0.00 ft.	
Exposure Factor =	1.21	
Risk Factor =	1	
Least Bldg. Dim =	68 ft.	
	5.7	
a =	5.7 ft.	
End Zone Size =	11.4 ft.	

Sidewall:	
Int. Zone, W _i =	125 plf-ASD
End Zone, W _e =	188 plf-ASD
Load to Shearwall =	4896 lbs.
Min. Load to SW =	1913 lbs.
Endwall:	
Int. Zone, W _i =	125 plf-ASD
End Zone, W _e =	188 plf-ASD
Load to Shearwall =	8739 lbs.
Min. Load to SW =	3635 lbs.

Seismic Design (ASD)

S _s =	0.5
S ₁ =	0.236
R =	6.5
Roof Diaphragm Dead Load, W =	110081 lbs.
Seismic Response Coefficient, C _s =	0.0897 x W _d
A.S.D. - 0.7xQ _E =	0.063 x W _d
Total Seismic Load, E _h =	6915 lbs.

F _a =	1.40	(Assume Site Class D)
F _v =	1.8	
S _{ds} =	0.467	C 3
S _{d1} =	0.283	D 4
T _a =	0.152	<12.8-3 0.238 OK
C _u =	1.5	>12.8-5 0.01 OK
T =	0.229	>12.8-6 0.0227 OK
Adj. S _{ds} =	0.467	

SEISMIC DESIGN CATEGORY C

Wind Design Intermediate Values

End Zone Wall (A) =	46 psf	End Zone Uplift (E) =	-55.25 psf
End Zone Roof (B) =	0 psf	End Zone Uplift (F) =	-31.4 psf
Int. Zone Wall (C) =	30.5 psf	Int. Zone Uplift (G) =	-38.5 psf
Int. Zone Roof (D) =	0 psf	Int. Zone Uplift (H) =	-24.35 psf

Total Wind Shear at Shearwall:

At Endwall, V _x =	4896 lbs.
At Sidewall, V _y =	8739 lbs.

Total Seismic Shear at Shearwall:

At Endwall, V _x =	3458 lbs.
At Sidewall, V _y =	3458 lbs.

38898.682
156060
-501722.1
-86252.05
470812.79
7846.8799

Roof Diaphragm:

Diaphragm Unit Shear:

Seismic:	vx =	27 plf	1
	vy =	51 plf	1
Wind:	vx =	38 plf	1
	vy =	129 plf	1

Diaphragm Chord Tie:

Worst Case Location:	33.51 ft. from endwall
Sidewall Tie: T _{yy} =	573 lbs.
Worst Case Location:	62.10 ft. from sidewall
Endwall Tie: T _{xx} =	3850 lbs.

ROOF DIAPHRAGM NAILING: 6" o.c. Edge and 6" o.c. Field
UNBLOCKED DIAPHRAGM
2-1/4" x 0.113" Nails (min.)

Shearwalls:

Endwalls 1:	
Seismic Load =	3458 lbs.
Seismic Unit Shear =	38 plf
Wind Load =	4896 plf
Wind Unit Shear =	54

Sidewalls 1:

Seismic Load =	3458 lbs.
Seismic Unit Shear =	56 plf
Wind Load =	8739 lbs.
Wind Unit Shear =	141 plf

Shearwall Type: 6" o.c. Edge
6" o.c. Field

Shearwall Type: 6" o.c. Edge
6" o.c. Field

Endwalls 2:	
Seismic Load =	3458 lbs.
Seismic Unit Shear =	54 plf
Wind Load =	4896 plf
Wind Unit Shear =	76

Sidewalls 2:

Seismic Load =	3458 lbs.
Seismic Unit Shear =	56 plf
Wind Load =	8739 lbs.
Wind Unit Shear =	141 plf

Shearwall Type: 6" o.c. Edge
6" o.c. Field

Shearwall Type: 6" o.c. Edge
6" o.c. Field

Min. Endwall Shearwall Width, w =	4.54 ft.	h/w	2.26	2w/h	0.886	Endwall
Effective Endwall Height, h =	10.25 ft.					
Min. Sidewall Shearwall Width, w =	5.5 ft.	h/w	1.91	2w/h	1.000	Sidewalls
Effective Sidewall Height, h =	10.5 ft.					

Assumed Nail Size: 2" x 0.113" Nails Min.

SHEARWALL NOTES:

- Effective shearwall must have a height to width ratio of 3.5 to 1 or less. Only effective shearwalls should be used in the above shearwall lengths. Wall sections 3'-0" or greater shall be assumed as meeting this requirement.
- When 3/8" plywood is installed on the inside of the shearwall, enter "Y" in the Double Sided shearwall section above.
- Wind analysis assumes enclosed buildings. This requires that buildings in Wind Borne Debris Regions (110 mph or greater) have opening protections. Either impact resistant glazing or approved impact resistant coverings.

REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: JOHN L. WHITAKER, ARCHITECT

John L. Whitaker

COMMERCIAL MODULAR LATERAL ANALYSIS

13 MAPUES
12 CLASSROOMS
5/10/2018

18

Building Properties:

Number of Modules:	13
Module Width:	11.75 ft.
Module Length:	68 ft.
Sidewall Height:	11.25 ft.
Parapet Height:	0 ft.
Roof Slope:	0 :12 inches
Roof Dead Load:	10 psf
Roof Live Load:	20 psf
Ext. Wall Dead Load:	10 psf
Endwall Overhang:	0 inches
Sidewall Overhang:	0 inches

Design Loads:

Basic Wind Speed:	170	29
Exposure:	C	1.21
Importance Factor:	1	Wind
	1.25	Seismic
State:	10	
Coverage:	Most	(Most, All)
Box or Rigid Frame?	Box	
Occupancy Category:	3	(1,2, or 3)

Shearwall Lengths:

Endwall 1:	121.25 ft.	N	1
Endwall 2:	86.26 ft.	N	1
Sidewall 1:	62 ft.	N	1
Sidewall 2:	62 ft.	N	1

Double Sided Shearwall?

2
Exterior Siding Code: 3
1 3/8" Plywood or OSB
3 7/16" Plywood or OSB
5 15/32" Plywood or OSB
7 3/8" LP SmartSide Siding
9 7/16" LP SmartSide Siding

Wind Design

Roof Slope =	0.00	degrees	0
Peak Roof Height =	11.25	ft.	
Peak Wall Height =	11.25	ft.	
Roof Ext. Height =	0.00	ft.	
Exposure Factor =	1.21		
Risk Factor =	1		
Least Bldg. Dim =	68	ft.	
	5.7	3	
a =	5.7	ft.	
End Zone Size =	11.4	ft.	
Sidewall:			
Int. Zone, W _i =	125	plf-ASD	
End Zone, W _e =	188	plf-ASD	
Load to Shearwall =	4896	lbs.	
Min. Load to SW =	1913	lbs.	
Endwall:			
Int. Zone, W _i =	125	plf-ASD	
End Zone, W _e =	188	plf-ASD	
Load to Shearwall =	10208	lbs.	
Min. Load to SW =	4296	lbs.	

Roof Diaphragm Info

Sheathing:	0.5	in. thick
	(.4375" OR 0.5")	
	3	4

Seismic Design (ASD)

S _s =	0.5	
S _i =	0.236	
R =	6.5	
Roof Diaphragm Dead Load, W =	128704	lbs.
Seismic Response Coefficient, C _s =	0.0897	x W _d
A.S.D. - 0.7xQ _E =	0.063	x W _d
Total Seismic Load, E _h =	8085	lbs.

F _a =	1.40	(Assume Site Class D)
F _v =	1.8	
S _{ds} =	0.467	C 3
S _{d1} =	0.283	D 4
T _a =	0.152	<12.8-3 0.238 OK
C _u =	1.5	>12.8-5 0.01 OK
T =	0.229	>12.8-6 0.0227 OK
Adj. S _{ds} =	0.467	

SEISMIC DESIGN CATEGORY
C

Wind Design Intermediate Values

End Zone Wall (A) =	46	psf
End Zone Roof (B) =	0	psf
Int. Zone Wall (C) =	30.5	psf
Int. Zone Roof (D) =	0	psf
End Zone Uplift (E) =	-55.25	psf
End Zone Uplift (F) =	-31.4	psf
Int. Zone Uplift (G) =	-38.5	psf
Int. Zone Uplift (H) =	-24.35	psf

Total Wind Shear at Shearwall:

At Endwall, V _x =	4896	lbs.
At Sidewall, V _y =	10208	lbs.

Total Seismic Shear at Shearwall:

At Endwall, V _x =	4043	lbs.
At Sidewall, V _y =	4043	lbs.

45479.671
156060
-501722.1
-86252.05
477393.78
7956.5631

Roof Diaphragm:

Diaphragm Unit Shear:

Seismic:	vx =	26	plf	1
	vy =	59	plf	1
Wind:	vx =	32	plf	1
	vy =	150	plf	1

Diaphragm Chord Tie:

Worst Case Location:	33.51	ft. from endwall
Sidewall Tie: T _{yy} =	485	lbs.
Worst Case Location:	73.79	ft. from sidewall
Endwall Tie: T _{xx} =	5367	lbs.

ROOF DIAPHRAGM NAILING: 6" o.c. Edge and 6" o.c. Field
UNBLOCKED DIAPHRAGM
2-1/4" x 0.113" Nails (min.)

Shearwalls:

Endwalls 1:

Seismic Load =	4043	lbs.
Seismic Unit Shear =	38	plf
Wind Load =	4896	plf
Wind Unit Shear =	46	plf

Shearwall Type: 6" o.c. Edge
6" o.c. Field

Sidewalls 1:

Seismic Load =	4043	lbs.
Seismic Unit Shear =	65	plf
Wind Load =	10208	lbs.
Wind Unit Shear =	165	plf

Shearwall Type: 6" o.c. Edge
6" o.c. Field

Endwalls 2:

Seismic Load =	4043	lbs.
Seismic Unit Shear =	53	plf
Wind Load =	4896	plf
Wind Unit Shear =	64	plf

Shearwall Type: 6" o.c. Edge
6" o.c. Field

Sidewalls 2:

Seismic Load =	4043	lbs.
Seismic Unit Shear =	65	plf
Wind Load =	10208	lbs.
Wind Unit Shear =	165	plf

Shearwall Type: 6" o.c. Edge
6" o.c. Field

Min. Endwall Shearwall Width, w =	4.54	ft.	h/w	2.26	2w/h	0.886	Endwall
Effective Endwall Height, h =	10.25	ft.					
Min. Sidewall Shearwall Width, w =	5.5	ft.	h/w	1.91	2w/h	1.000	Sidewalls
Effective Sidewall Height, h =	10.5	ft.					

Assumed Nail Size: 2" x 0.113" Nails Min.

SHEARWALL NOTES:

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- When 3/8" plywood is installed on the inside of the shearwall, enter "Y" in the Double Sided shearwall section above.
- Wind analysis assumes enclosed buildings. This requires that buildings in Wind Borne Debris Regions (110 mph or greater) have opening protections. Either impact resistant glazing or approved impact resistant coverings.

REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: JOHN L. WHITAKER, ARCHITECT

John L. Whitaker

NOTES:

1. SITE PLAN NOT AVAILABLE AT THIS TIME. BUILDING DESIGNED TO HAVE FIRE SEPARATION DISTANCE GREATER THAN 10 FT. IN ACCORDANCE WITH TABLE 602 OF THE IBC.
2. PORCHES, STEPS, AND RAMPS TO BE SUPPLIED AND INSTALLED BY OTHERS IN ACCORDANCE WITH THE 2012 TAS AND THE IBC.
3. PORTABLE FIRE EXTINGUISHERS TO BE SUPPLIED AND INSTALLED ON SITE BY OWNER IN ACCORDANCE WITH SECTION 906 OF THE 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 MANAGEMENT TO SITE CONSTRUCT DRAFT STOP IN ACCORDANCE WITH THE IBC WHERE REQUIRED.
6. TULR BECA TO BE LOCATED ON HITCH END INTERIOR WALL ABOVE T-GRID.
7. DOOR CLOSERS SHALL COMPLY WITH THE REQUIREMENTS IN TAS 4.13.10 AND 4.13.11 FOR CLOSING SPEED AND OPENING FORCE.

THE FOLLOWING UNITS ARE TO BE CONSTRUCTED INDIVIDUALLY BY THE FACTORY:

- "A&B" UNIT-OUTSIDE UNIT W/TWO CLASSROOMS
- "C&D" UNIT-MIDDLE UNIT W/TWO CLASSROOMS
- "E" UNIT-MIDDLE UNIT W/RESTROOMS
- "F&G" UNIT-OUTSIDE UNIT W/TWO CLASSROOMS

NOTE: FOR A TYPE VB GROUP B OR E BUILDING THE MAXIMUM SQUARE FOOTAGE ANY COMBINATION OF UNITS SHALL BE 9,000 SQ. FT. ADDITIONAL SITE INSTALLED EGRESS ELEMENTS MAY BE NECESSARY DEPENDING UPON THE LAYOUT AND CONFIGURATION. AREA INCREASE CALCULATION PROVIDED FOR CONFIGURATIONS EXCEEDING 9,000 SQ. FT. ON CONFIGURATION SHEET.

ADDITIONAL NOTE: FOR CONFIGURATIONS: C-PLEX UNITS ARE DESIGNED TO BE MANUFACTURED INDIVIDUALLY. MODULES ARE DESIGNED TO ALLOW SEVERAL DIFFERENT COMPLEX CONFIGURATIONS IN THE FIELD WITH A MINIMUM OF 4 UNITS (4 CLASSROOMS) AND A MAXIMUM OF 13 UNITS (12 CLASSROOMS). CONFIGURATIONS OF ANY COMPLEX SHALL NOT EXCEED SQUARE FOOTAGE LIMITATIONS SET FORTH IN "TABLE 503" (use group B or E, type VB) OF THE 2009 Ed. IBC AND NFPA 101 - 2009. EGRESS REQUIREMENTS MUST BE MET IN ALL CONFIGURATIONS IN ACCORDANCE WITH CHAPTER 10 OF THE 2009 Ed. OF THE IBC. THE MINIMUM REQUIRED PLUMBING FIXTURES MUST BE OBTAINABLE IN ALL CONFIGURATIONS ACCORDING TO THE 2009 Ed. IPC.

TEXAS INDUSTRIALIZED BUILDING CODE COUNCIL

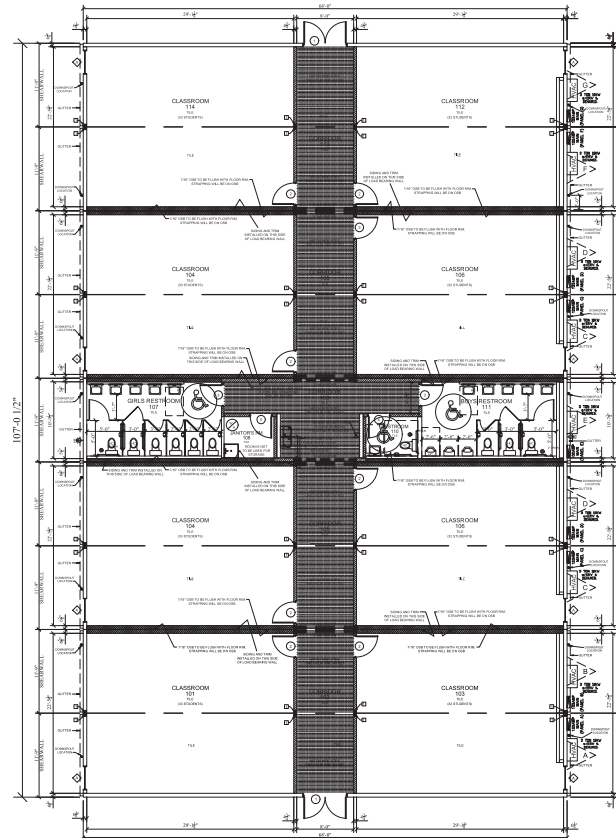
This document is approved pursuant to the Industrialized Housing and Buildings Act.

DRA No. 7 IBC X IRC
Date: 3/14/17

DRA Signature: _____



MOBILE MODULAR MANAGEMENT MOD POD (8 CLASSROOMS) NOMINAL SIZE 108 X 72 (68)



1 FLOOR PLAN
3/32"=1'-0" SQUARE FOOTAGE: 7214 SF
OCCUPANCY LOAD: 268

DATA PLATE

MANUFACTURE & ADDRESS (see summary worksheet)	INDICOM BUILDING, INC. 721 N. Burleson Blvd. BURLESON, TX 76028 HAM - 41 LAB-MOD002
DRAW AGENT: PFS Corporation	ADDRESS: Cottage Grove, W.
SERIAL NO.	
DECAL NO.	
FIRE MARSHAL PLAN REVIEW NO.	
DATE OF MFG.	
NO OF MODULES.	
FLOOR LIVE LOAD.	50 psf. (2000 lb concentrated) (100 psf. @ corridor)
WIND LOAD (V3s).	2009 IBC ~ 17500000 (4000000) IBC C OCCUPANCY CATEGORY III and III
ROOF LIVE LOAD.	20 psf.
ROOF DEAD LOAD.	10 psf.
TYPE OF CONSTRUCTION.	VB
OCCUPANCY USE GROUP.	SUITABLE FOR USE WITH E OR B CLASSROOMS
APPROVED FOR FLOOD ZONE USAGE: NO FLOOD ZONE INDICATED	
PERMISSIBLE GAS (for eqn. 6.1)	N/A
NAME AND DATE OF CODES:	
TX: 2009 IBC, 2009 IPC, 2009 IMC, 2009 IECC, 2011 NEC, 2012 TAS	

SYSTEMS COMPLETED AT FACTORY:
STRUCTURAL (X) ELECTRICAL (X) PLUMBING (X) HVAC (X)
SPECIAL CONDITIONS/LIMITATIONS: 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 LOADING) WHEN THIS STRUCTURE IS LOCATED IN A WIND Borne DEBRIS REGION IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE SECTION 1609.12 PRIOR TO FINAL INSPECTION AND OCCUPANCY.

HEATING EQUIP. MFG.
HEATING MODEL: _____
SOUND DESIGN CATEGORY: C

NOTE: DATA PLATE TO BE LOCATED ON PANEL BOX DOOR OR SHALL BE PLACED ON THE INTERIOR SIDE OF THE EXTERIOR WALL @ THE HITCH END ABOVE THE T-GRID LOCATION.

FLOOR PLAN LEGEND

	INDICATES 1 HOUR FIRE RATED (W/P3605) FULL HEIGHT WALL
	INDICATES FULL HEIGHT LOAD BEARING WALL TO BOTTOM OF RAFTERS
	HANDICAP ELONGATED TANK TYPE WATER CLOSET WITH SHUT OFF VALVE
	ELONGATED TANK TYPE WATER CLOSET WITH SHUT OFF VALVE
	36" GRAB BAR
	42" GRAB BAR
	TOILET PAPER DISPENSER
	LAVATORY 19" X 17" WHITE VITREOUS WALL HUNG W/ADA HANDLES
	24" X 24" HOLEBED MOP BASIN WITH WALL MOUNTED FAUCET
	WALL HUNG SPLIT-LEVEL HANDICAP REFRIGERATED WATER COOLER W/APRON
	WALL HUNG WHITE VITREOUS WITH COMMERCIAL GRADE FLUSH VALVE
	MODESTY PARTITIONS OR URINAL SCREEN
	FROST PROOF HOSE BIBB WITH BACK FLOW PREVENTER
	20 GALLON ELECTRIC WATER HEATER W/VACUUM RELIEF AND DRAIN PAN



INDICOM BUILDINGS, INC.
INDUSTRIALIZED COMMERCIAL BUILDINGS
721 N. BURLESON BLVD - BURLESON, TX 76028
817-447-1213 FAX 817-447-2751

THESE DRAWINGS REMAIN THE PROPERTY OF INDICOM BUILDINGS, INC. AND ARE NOT TO BE USED IN ANYWAY WITHOUT WRITTEN PERMISSION.

DEALER: MOBILE MODULAR MANAGEMENT
HOUSTON
PROJECT: VARIABLE UNIT COMPLEX
MOD POD
PROJECT NUMBER: _____

SCALE: AS NOTED

PLOT DATE: 3/6/2017

SALESMAN: RP

DRAWN BY: _____

STATES: TX/LAOKAR

SERIAL NUMBERS: _____

REVISIONS: _____

SHEET: 2 OF 7

NOTES:
 1. SITE PLAN NOT AVAILABLE AT THIS TIME. BUILDING DESIGNED TO HAVE FIRE SEPARATION DISTANCE GREATER THAN 10 FT. IN ACCORDANCE WITH TABLE 602 OF THE IBC.
 2. PORCHES, STEPS, AND RAMPS TO BE SUPPLIED AND INSTALLED BY OTHERS IN ACCORDANCE WITH THE 2012 TAS AND THE IBC.
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 6. TIDR DECAL TO BE LOCATED ON HITCH END INTERIOR WALL ABOVE T-GRID.
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 "A&B" UNIT-OUTSIDE UNIT W/TWO CLASSROOMS
 "C&D" UNIT-MIDDLE UNIT W/TWO CLASSROOMS
 "E" UNIT-MIDDLE UNIT W/RESTROOMS
 "F&G" UNIT-OUTSIDE UNIT W/TWO CLASSROOMS

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Texas Industrialized
Building Code Council

IBC ☒ IRC ☐

Approval Date:

3/14/17

APPROVED
PFS CORPORATION

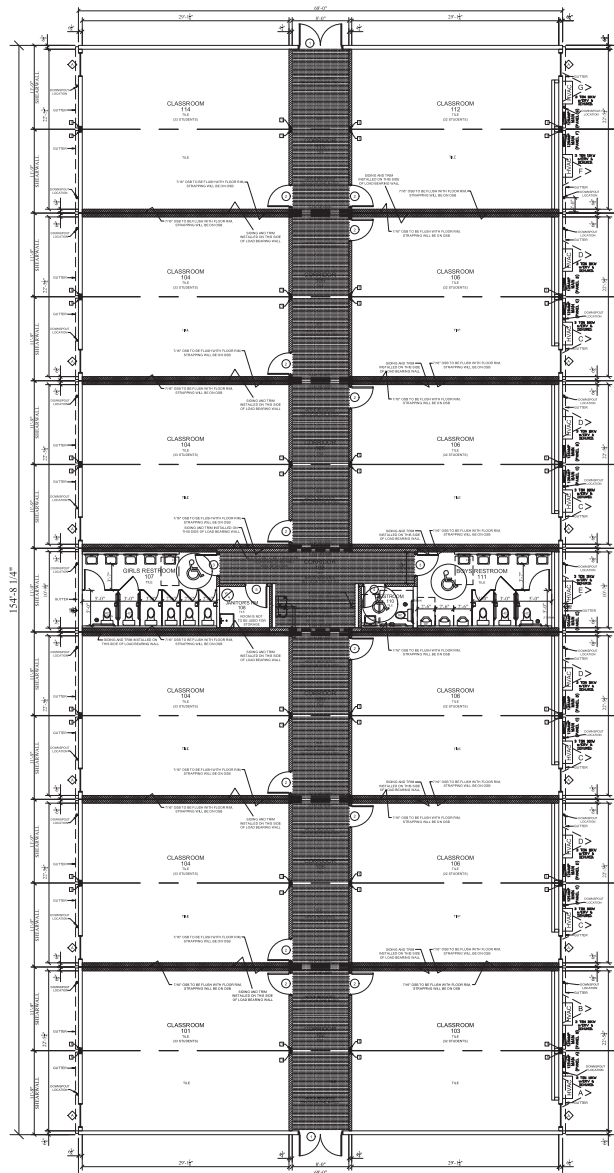
IHDRA- 7



MOBILE MODULAR MANAGEMENT MOD POD (12 CLASSROOMS) NOMINAL SIZE 156 X 72 (68)

FRONTAGE INCREASE CALCULATION
 BUILDING SQFT = 10415 / 9000 ALLOWABLE SQFT
 $I_f = [F / P - 0.25] W / 30$
 $I_f = [200 / 445 - 0.25] 30 / 30$
 $I_f = [.20] 1$

BUILDING AREA INCREASE CALCULATION
 $A_a = \{ A_i + [A_i \times I_f] + [A_i \times I_s] \}$
 $A_a = \{ 9000 + [9000 \times .20] + [9000 \times 0] \}$
 $9000 + 1800 + 0$
 $A_a = 10800 \text{ SQFT}$



1 FLOOR PLAN
 3/32"=1'-0" SQUARE FOOTAGE: 10415 SF
 OCCUPANCY LOAD: 398

DATA PLATE

MANUFACTURE & ADDRESS: INDICOM BUILDING, INC.
 721 N. Burleson Blvd.
 BURLESON, TX 76028
 PH - 41
 FAX - 817-447-2751

DRAFT AGENCY: PFS CORPORATION
 ADDRESS: Cottage Grove, W.

SERIAL NO.
 DECAL NO.
 FIRE MARSHAL PLAN REVIEW NO.
 DATE OF MFG.
 NO OF MODULES.
 FLOOR LIVE LOAD. 50 psf. (2000 lb concentrated)
 (100 psf. @ corridor)
 WIND LOAD (V3s). 2009 IBC - 130 MPH (ASD) EXP. C
 OCCUPANCY CATEGORY II AND III
 ROOF LIVE LOAD. 20 psf.
 ROOF DEAD LOAD. 10 psf.
 TYPE OF CONSTRUCTION. VB
 OCCUPANCY USE GROUP. SUITABLE FOR USE WITH E OR B
 CLASSROOMS.
 APPROVED FOR FLOOD ZONE USAGE: NO FLOOD ZONE INDICATED
 PERMISSIBLE GAS (for eqn. 6.1) N/A
 NAME AND DATE OF CODES:
 TX: 2009 IBC, 2009 IPC, 2009 IMC, 2009 IECC,
 2011 NEC, 2012 TAS

SYSTEMS COMPLETED AT FACTORY:
 STRUCTURAL (X) ELECTRICAL (X) PLUMBING (X) HVAC (X)
 SPECIAL CONDITIONS/LIMITATIONS: 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 1609.12 PRIOR TO FINAL INSPECTION AND OCCUPANCY.
 HEATING EQUIP. MFG.
 HEATING MODEL.
 SOUNDING DESIGN CATEGORY. C
 NOTE: DATA PLATE TO BE LOCATED ON PANEL BOX DOOR OR SHALL BE PLACED ON THE INTERIOR SIDE OF THE EXTERIOR WALL @ THE HITCH END ABOVE THE T-GRID LOCATION.

FLOOR PLAN LEGEND

	INDICATES 1 HOUR FIRE RATED (W/P3605) FULL HEIGHT WALL
	INDICATES FULL HEIGHT LOAD BEARING WALL TO BOTTOM OF RAFTERS
	HANDICAP ELONGATED TANK TYPE WATER CLOSET WITH SHUT OFF VALVE
	ELONGATED TANK TYPE WATER CLOSET WITH SHUT OFF VALVE
	36" GRAB BAR
	42" GRAB BAR
	TOILET PAPER DISPENSER
	LAVATORY 19" X 17" WHITE VITREOUS WALL HUNG W/ADA HANDLES
	24" X 24" MOLDED MDP BASIN WITH WALL MOUNTED FAUCET
	WALL HUNG SPLIT-LEVEL HANDICAP REFRIGERATED WATER COOLER w/APRON
	WALL HUNG WHITE VITREOUS WITH COMMERCIAL GRADE FLUSH VALVE
	MODESTY PARTITIONS OR URINAL SCREEN
	FIRST FLOOR HOSE BIBB WITH BACK FLOW PREVENTER
	20 GALLON ELECTRIC WATER HEATER w/VACUUM RELIEF AND DRAIN PAN



INDICOM BUILDINGS, INC.
 INDUSTRIALIZED COMMERCIAL BUILDINGS
 721 N. BURLESON BLVD - BURLESON, TX 76028
 817-447-1213 FAX 817-447-2751

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DEALER: MOBILE MODULAR MANAGEMENT HOUSTON
 PROJECT: VARIABLE UNIT COMPLEX MOD POD

PROJECT NUMBER: 1111111111

SCALE: AS NOTED

PLOT DATE: 3/6/2017

SALESMAN: RP

DRAWN BY: ---

STATES: TX/LAOKAR

SERIAL NUMBERS: ---

REVISIONS: ---

SHEET:

4 of 7

DESIGN CRITERIA:

PROJECT NAME: **MOBILE MODULAR - MM1260-2**
BUILDING SQ. FOOTAGE: 658 SQ. FT.
TX. & LA. OK. & MS. AR.
2002 NEC 1989 NEC 1999 NEC
2003 IBC 2003 IBC W/ MODS. 2000 IBC W/ STATE SUPP.
2003 IMC 2003 IMC 2000 IMC W/ STATE SUPP.
2003 IPC 2003 IPC 2000 IPC W/ STATE SUPP.
2003 IECC 2003 IECC 2003 IECC W/ STATE SUPP.
1984 TAS ADAAG ASHRAE STD. 90.1-2001
USE GROUP: B
CONSTRUCTION TYPE: IBC: V-B
OCCUPANT LOAD: 7
PERMISSIBLE GAS TYPE: ☐ LP ☐ NATURAL ☒ N/A

DESIGN LOADS:

ROOF LIVE LOAD: 20 PSF
FLOOR LIVE LOAD: 50 PSF
CONC. FLOOR LIVE LOAD: 2000 LBS
WIND LOAD: (130 MPH 3-SEC GUST)
EXPOSURE: B
SEISMIC DESIGN CATEGORY 1-B

SPECIAL CONDITIONS AND / OR LIMITATIONS:

- HANDICAP ACCESS & SIGNAGE TO BE PROVIDED AS REQUIRED BY OTHERS AS APPLICABLE.
- THE BUILDING IS TO BE LOCATED PER THE REQUIREMENTS OF TABLE 602 OF THE 2003 IBC
- FIRE EXTINGUISHER(S) SHALL BE INSTALLED ON-SITE BY OTHERS.
- ANY REQUIRED ALARM SYSTEM SHALL BE INSTALLED ON-SITE BY OTHERS.

FOUNDATION NOTES:

- FOUNDATION AND ANCHORING ARE SUBJECT TO ACCEPTANCE AND INSPECTION BY LOCAL AUTHORITY HAVING JURISDICTION.
- TIE-DOWN ANCHORING: SEE SHEET S-1
- CRAWL SPACE VENTILATION TO BE PROVIDED BY OTHERS ON-SITE PER 1203.3.1 OF THE 2003 IBC

SCOPE OF WORK

NOT INCLUDED IN THE SCOPE OF WORK

- UTILITIES AND UTILITY CONNECTIONS
- POURED CONCRETE (DRIVEWAY, SIDEWALK, SLABS, FOOTINGS, ETC).
- SITE PREPARATION
- TAX OF ANY KIND.
- BUILDING PERMITS.

SITE WORK

- OWNER IS TO EXAMINE THE SITE AND SHALL VERIFY ALL EXISTING CONDITIONS, NO PROVISION FOR SITE WORK HAS BEEN INCLUDED. IT IS PRESUMED THAT THE SITE WILL PROVIDE CLEAR ACCESS FOR TRUCKS AND MODULARS.

- ALL ELECTRICAL, PLUMBING, SEWER & GAS SERVICE CONNECTIONS AND ALL CONCRETE WORK AT THE SITE, TO INCLUDE POURED PIERS, FOUNDATIONS, SLABS, SIDEWALKS, DRIVEWAYS OF WHATEVER KIND ARE THE RESPONSIBILITY OF THE OWNER.

IDENTIFICATION:

STATE DECAL: **STATE DECAL AND DATA PLATE PLACED ABOVE CEILING ON FRONT ENDWALL [TX. / OK. / LA. / AR. / MS.]**
MM DECAL: **ON REAR ENDWALL**

FRAME / CHASSIS:

OUTRIGGERS: 48" O.C.
CROSSMEMBERS: 48" O.C.
BEAM: 12" JR. 1-BEAM
HITCH: DETACHABLE HITCH
AXLES: THREE W/ NEW BRAKES ON TWO AXLES
TIRES: E (10-PLY)
FRAME: MEDIUM
RUN WIRING FOR TAIL LIGHTS; AMTEX TO INSTALL TAIL LIGHTS

FLOOR:

BOTTOM BOARD: ROLL POLYETHYLENE FIBER MESH
INSULATION: R-11 UNFACED
JOISTS: 2x6 No. 2 SYP OR BTR. AT 16" O.C.
SIDEBOARD JOISTS: DOUBLE 2x6 SYP No. 2 OR EQUAL
RUN 10" GALV. FLASHING FLUSH W/ BOTTOM OF RIM JOISTS
DECKING: 3/4" T&G PLYWOOD (NO PARTICLE BOARD)
FLOOR COVER: 1/8" TILE #51858 - SAND DRIFT WHITE
ALL TILE TO BE RAN THE SAME DIRECTION; NOT STAGGERED
COVE BASE: 4" VINYL CB-67 - DOVE GRAY

EXTERIOR WALLS:

SIDEWALL HEIGHT: REFERENCE SHEET A-3
STUDS: 2x4 No. 2 SYP OR BTR AT 16" O.C.
BOTTOM PLATE: SNGL 2x4 SYP No. 2 OR BTR
TOP PLATE: DBL 2x4 SYP No. 2 OR BTR
HEADERS: DOUBLE 2x4 WITH 1/2" PLYWOOD FILLER
FIRE BLOCKS: 2x MIN. AT CLG LINE AS REQ'D.
INSULATION: R-11 FACED
SHEATHING: WEYERHAUSER HOUSE WRAP OR EQUAL & 3/8" CDX PLYWOOD ON ENDWALLS ONLY
SIDING: 7/16" LP SMART PANEL (8" GROOVES) **CAMEL**
HOLD SIDING UP 3/4" FROM FLOOR FRAMING BOTTOM EDGE
EXT TRIM: 7/16" LP SMART PANEL - 8" TOP & BOTTOM
4" WINDOWS, & DOORS **OXFORD**
4" CORNERS **CAMEL**
SKIRTING: NONE
CAULK ALL SEAMS!!

INTERIOR WALLS: OPTIONAL

WALL HEIGHT: 7'-11"
STUDS: 2x4 SYP No. 2 OR BTR AT 16" O.C.
BOTTOM PLATE: SNGL 2x4 SYP No. 2 OR BTR
TOP PLATE: DBL 2x4 SYP No. 2 OR BTR
HEADERS: SINGLE 2x4 FLAT
FIRE BLOCKS: 2x MIN. AT CLG LINE AS REQ'D.
COVERING: 1/4" V.C. PANELING **HAMPTON GRAY**
TRIM: STD. V.C.G. - 1-1/2" WIDTH @ TOP & WINDOWS
3" TRI-MOLD @ INSIDE/OUTSIDE CORNERS
1" BATT. @ VERTICAL JOINTS
INSTALL CEILING FLAT TRIM @ PARTITIONS
OPTIONAL FRP: 4' HT. - BEHIND & ALONG SIDE OF W.C.
INSULATION: N/A

WINDOWS:

SIZE/TYPE: [04] 46" X 39" H.S. BRONZE/TINTED
BRAND: PHILIPS
MISC: N/A
INSTALL W/ PUTTY TAPE & 1-5/8" DECK SCREWS
INSTALL PAINTED MINIGUTTER ABOVE TOP TRIM
NO NAILS ARE PERMITTED FOR WINDOW INSTALLATION

DOORS:

EXTERIOR: [02] 36"x80" ACTIVE RLC-1 - NO PANE & BOTTOM SWEEP (BRONZE FRAME)
DOOR COLOR: EXTERIOR: **CAFE** INTERIOR: **HONEY PECAN**
EXTERIOR HARDWARE
PASSAGE (SCHLAGE# F10ELA-626)
DEAD BOLT (SCHLAGE# BC-160P-626)
STORM CHAINS
SPECIAL CAP 3/4"x1-13/16"x3/4" W/ MINI GUTTER ABOVE CAP
INSTALL W/ PUTTY TAPE & 1-5/8" DECK SCREWS
EXT. DOORS INSTALLED W/ 1-5/8" ZINC DECK SCREWS
NO NAILS ARE PERMITTED FOR DOOR INSTALLATION
KEYED ALIKE W/ (2) KEYS PER LOCK
INTERIOR: [02] 36"x80" ACTIVE DOORS
HOLLOW CORE LEGACY WALNUT
INTERIOR HARDWARE
[02] PASSAGE (SCHLAGE F10ELA-626)
2-3/4" BACKSET IS CRITICAL FOR HARDWARE
TIMELY BROWNSTONE FRAME W/ HINGES
MISC: [02] WALL MTD. SCREW-ON DOOR STOPS

ROOF:

RAFTERS: 2x6 #2 SYP. OR BTR. @ 24" O.C. (SHED STYLE)
RIM MBR: SNGL 2x6 SYP #2
RIDGE BEAM: N/A
CEILING: 2"x4" ACOUSTIC TILE, LAYIN @ 7'-11" A.F.F.
ARMSTRONG #2910 RANDOM FISSURED
ARMSTRONG PRELUDE XL WHITE GRID
CEILING TO FLOAT OVER INTERIOR WALLS
MAIN TEES TO RUN FULL LENGTH OF UNIT @ 48" O.C.
INSULATION: R-19 UNFACED
SHEATHING: 1/2" CDX PLYWOOD W/ H-CLIPS & (1) LAYER 15# FELT OR EQUIV.
ROOFING: .0130 29GA HI-RIB STEEL (GALVALUME) (1 IN 12 PITCH)
3" OVERHANG @ REAR SIDEWALL ONLY
MANSARD: N/A

ELECTRICAL:

SERVICE: 120/240V SINGLE PHASE
LOAD CENTER: 200 AMP, EXT. MOUNT LOAD CTR. W/ 125 AMP MAIN (BW2125) **NEMA 3-R (UP 26" FROM BOTTOM OF BUILDING)**
MODEL: CUTLER HAMMER: BR1224N200R
ENTRANCE: ON-SITE BY OTHERS
WIRING: EMT W/ #12 WIRE W/ MC CABLE FIXTURE WHIPS
LIGHTS: [06] 48" T-8 4 TUBE FLOURESCENT TROFFERS W/ DIFFUSED LENS
NOTE: **ALL FOUR CORNERS OF TROFFERS TO BE INDIVIDUALLY SUPPORTED TO RAFTERS.**
[02] PORCH LT. W/ PHOTO-CELL FLOURESCENT
OPTIONAL FANS: [01] 80CFM EXHAUST FAN
RECEPTS: [13] STD. 120V DUPLEX RECEPTACLES **IVORY**
[01] W.P. EXT. GFCI 120V RECEPTACLE
SWITCHES: SEE SHEET E-1
J-BOXES: [02] W/ 3/4" EMT STUBBED UP & DOWN W/ BLANK COVER
[02] WIRED MOUNTED ABOVE CEILING
MISC: **THE GROUNDING ON-SITE IS TO BE IN ACCORDANCE WITH NEC 250-96.**

PLUMBING: OPTIONAL R.R.

WATER SUPPLY: TYPE 'L' COPPER
WASTE: PVC SCHEDULE 40 [SINGLE DROP]
WATER HEATER: [01] EEMAX SP-55
WATER CLOSET: [01] H.CAP ELONGATED BOWL W/ TANK **CRANE #3775**
LAVATORY: [01] WALL HUNG AT HANDICAP HT. W/ DUAL LEVER FAUCET. INSULATE HOT SUPPLY AND DRAIN TAILPIECE. **GERBER #12-654**
SINKS: [01] 15"x15" BAR SINK MTD. IN C. TOP @ H.C. HT. W/ DUAL LEVER FAUCET. INSULATE HOT SUPPLY AND DRAIN TAILPIECE
MISC: INSTALL 1-SET OF S.S. GRAB BARS
[01] T.P. HOLDER, [01] 18"x36" FRAMED MIRROR
RESTROOMS SHALL BE AVAILABLE ON-SITE IN ADJACENT BUILDING IF OPTIONAL RESTROOMS ARE NOT INSTALLED
A SERVICE SINK SHALL BE AVAILABLE ON-SITE OR BE INSTALLED AS REQUIRED BY LOCAL OFFICIALS.
BOTTLED WATER TO BE ON-SITE BY OTHERS.
ALL FIXTURE MOUNTING HEIGHTS PER T.A.S./ADAAG

HVAC:

HVAC: [01] 3-TON WALL MTD. WITH 10 KW HEAT STRIP -BARD- **BEIGE**
THERMOSTAT: [01] PROGRAMMABLE **ROBERTSHAW 9600**
DUCTS: FIBERGLASS **R-6**
SUPPLY: **24"x24" (4-WAY) ADJUSTABLE DAMPERS**
RETURN-AIR: THRU PLENUM WALL W/ DUCTED RETURN **PERFORATED RETURN AIR LAY-IN**
2x2 GALVANIZED/ALUMN. FLASHING ABOVE EACH HVAC UNIT (PUTTY TAPE ON BACKSIDE EDGE & EDGE TOUCHING HVAC)
EXTEND CONDENSATE DRAIN @ HVAC
ATTACH CONDENSATE DRAIN TO EXT. WALL
MISC: **FRESH AIR VENTILATION IS PROVIDED THRU MANUAL AIR DAMPER IN THE HVAC SYSTEM.**

FURNITURE OR MISC: OPTIONAL

COUNTERTOP: 4 L.F. OF POSTFORMED
CABINETS: [01] B18

DRAWING INDEX:

COVER SHEET / SPECIFICATIONS	A-1
ENERGY DESIGN INFORMATION	A-1.1
FLOOR PLAN	A-2
CROSS-SECTION	A-3
HVAC LAYOUT	M-1
ELECTRICAL CODE COUNCIL	E-1
PANEL BOX & ELEC. CALCS.	E-1.1
BLOCKING & TIEDOWN PLAN	S-1
HEAT LOSS CALCULATIONS	SEE ATTACHED

TEXAS INDUSTRIALIZED BUILDING CODE COUNCIL

This document is approved by the Texas Industrialized Building Act

Building Act

CEILING No. 7 IBC

DATE SEP 2 2006

DRA Signature

LAZENBY & ASSOCIATES, INC.
2000 NORTH 7th STREET
WEST MONROE, LA 71294
#(318) 387-2710

AMTEX

832 EAST WALNUT
GARLAND, TX 75040

528100 C/L
528101, 528102, 528103, 528104, 528105

LTR	REVISION	BY	DATE	DRAWN BY:	PROJECT:	TITLE:	DWG. NO.	SHEET
				M.L.S.	MOBILE MODULAR	COVER SHEET / SPECIFICATIONS	MM1260-2	A-1
			8/23/06		N.T.S.			

ENERGY DESIGN INFORMATION: TX.

CLIMATE ZONE: 4b window and glazed door area 10 percent or less
HDD [HEATING DEGREE DAYS]: 1371
R-VALUES TO COMPLY WITH TABLE: 802.2(13)
ACTUAL INSULATION R-VALUES IN BUILDING:
CEILING: ALL WOOD JOIST / TRUSS - R-19
FLOOR: ALL WOOD JOIST / TRUSS - R-11
WALLS WOOD FRAME, ANY SPACING - R-11
WINDOW U-FACTOR: 1.13
WINDOW SHGC: 0.67
GLASS DOOR U-FACTOR: 0.00
GLASS DOOR SHGC: 0.00
SOLID DOOR U-FACTOR: 0.70
SWITCHING SCHEMES SHALL BE PER ELECTRICAL PLAN
LIGHT FIXTURES: 48" 4-TUBE T-8 W/ ELEC. BALLAST AT 122 WATTS
PORCH LIGHT FLUORESCENT W/ ELEC. BALLAST AT 13 WATTS

EQUIPMENT EFFICIENCIES: HVAC MUST COMPLY WITH SECTION 803 AND TABLE 803.2.2(1) OF THE 2003 IECC [MIN. 9.7 SEER].
WATER HEATING COMPONENTS SHALL BE PER SECTION 804 AND TABLE 804.2 OF THE 2003 IECC TO BE CONSISTENT WITH THE NATIONAL APPLIANCE ENERGY CONSERVATION ACT OF 1987.

SYSTEM CONTROLS: HEATING AND COOLING SYSTEMS SHALL BE PROVIDED WITH PROGRAMMABLE THERMOSTAT PER SECTION 803.2.3.1 OF THE 2003 IECC.

OUTDOOR AIR VENTILATION RATES SHALL COMPLY WITH TABLE 403.3 OF THE 2003 IMC: 20 CFM PER PERSON

DUCT INSULATION SHALL COMPLY WITH SECTION 803.2.8 OF THE 2003 IECC:
R-5 INSULATION WHEN LOCATED IN UNCONDITIONED SPACE
R-8 INSULATION WHEN LOCATED OUTSIDE BUILDING ENVELOPE

DUCT SEALING MUST COMPLY WITH SECTION 803.2.8 OF THE 2003 IECC.

ENERGY DESIGN INFORMATION: OK.

CLIMATE ZONE: 8 window and glazed door area 10 percent or less
HDD [HEATING DEGREE DAYS]: 3691
R-VALUES TO COMPLY WITH TABLE: 802.2(20)
ACTUAL INSULATION R-VALUES IN BUILDING:
CEILING: ALL WOOD JOIST / TRUSS - R-19
FLOOR: ALL WOOD JOIST / TRUSS - R-11
WALLS WOOD FRAME, ANY SPACING - R-11
WINDOW U-FACTOR: 1.13
WINDOW SHGC: 0.67
GLASS DOOR U-FACTOR: 0.00
GLASS DOOR SHGC: 0.00
SOLID DOOR U-FACTOR: 0.70
SWITCHING SCHEMES SHALL BE PER ELECTRICAL PLAN
LIGHT FIXTURES: 48" 4-TUBE T-8 W/ ELEC. BALLAST AT 122 WATTS
PORCH LIGHT FLUORESCENT W/ ELEC. BALLAST AT 13 WATTS

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R-5 INSULATION WHEN LOCATED IN UNCONDITIONED SPACE
R-8 INSULATION WHEN LOCATED OUTSIDE BUILDING ENVELOPE

DUCT SEALING MUST COMPLY WITH SECTION 803.2.8 OF THE 2003 IECC.

ENERGY DESIGN INFORMATION: LA.

CLIMATE ZONE: 4b window and glazed door area 10 percent or less
HDD [HEATING DEGREE DAYS]: 1810
R-VALUES TO COMPLY WITH TABLE: 802.2(13)
ACTUAL INSULATION R-VALUES IN BUILDING:
CEILING: ALL WOOD JOIST / TRUSS - R-19
FLOOR: ALL WOOD JOIST / TRUSS - R-11
WALLS WOOD FRAME, ANY SPACING - R-11
WINDOW U-FACTOR: 1.13
WINDOW SHGC: 0.67
GLASS DOOR U-FACTOR: 0.00
GLASS DOOR SHGC: 0.00
SOLID DOOR U-FACTOR: 0.70
SWITCHING SCHEMES SHALL BE PER ELECTRICAL PLAN
LIGHT FIXTURES: 48" 4-TUBE T-8 W/ ELEC. BALLAST AT 122 WATTS
PORCH LIGHT FLUORESCENT W/ ELEC. BALLAST AT 13 WATTS

EQUIPMENT EFFICIENCIES: HVAC MUST COMPLY WITH SECTION 803 AND TABLE 803.2.2(1) OF THE 2003 IECC [MIN. 9.7 SEER].
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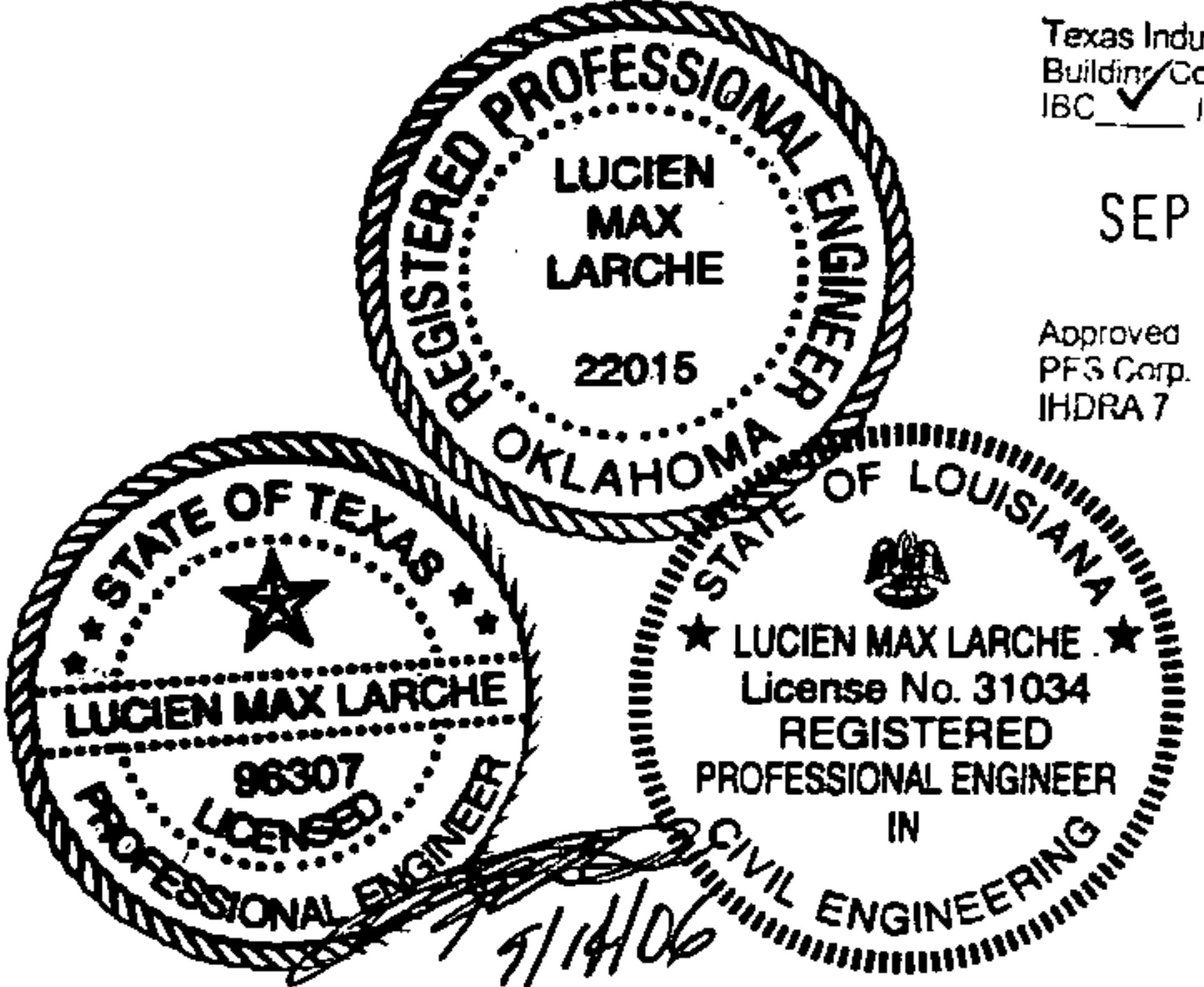
SYSTEM CONTROLS: HEATING AND COOLING SYSTEMS SHALL BE PROVIDED WITH PROGRAMMABLE THERMOSTAT PER SECTION 803.2.3.1 OF THE 2003 IECC.

OUTDOOR AIR VENTILATION RATES SHALL COMPLY WITH TABLE 403.3 OF THE 2003 IMC: 20 CFM PER PERSON

DUCT INSULATION SHALL COMPLY WITH SECTION 803.2.8 OF THE 2003 IECC:
R-5 INSULATION WHEN LOCATED IN UNCONDITIONED SPACE
R-8 INSULATION WHEN LOCATED OUTSIDE BUILDING ENVELOPE

DUCT SEALING MUST COMPLY WITH SECTION 803.2.8 OF THE 2003 IECC.

LAZENBY & ASSOCIATES, INC.
2000 North Seventh Street
P.O. Box 728
West Monroe, LA 71294-0728



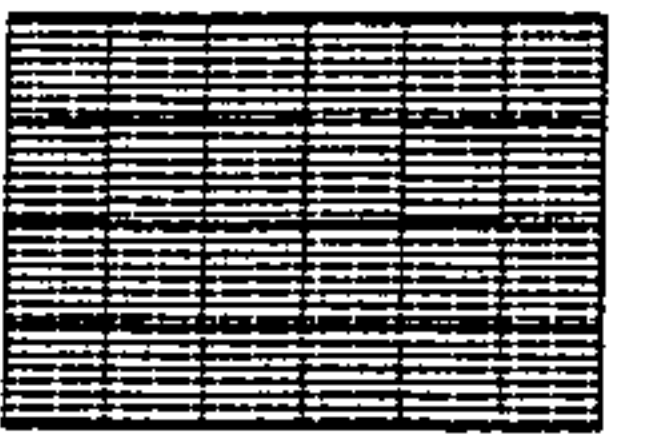
Texas Industrialized Building Code Council IBC IRC

SEP 20 2006

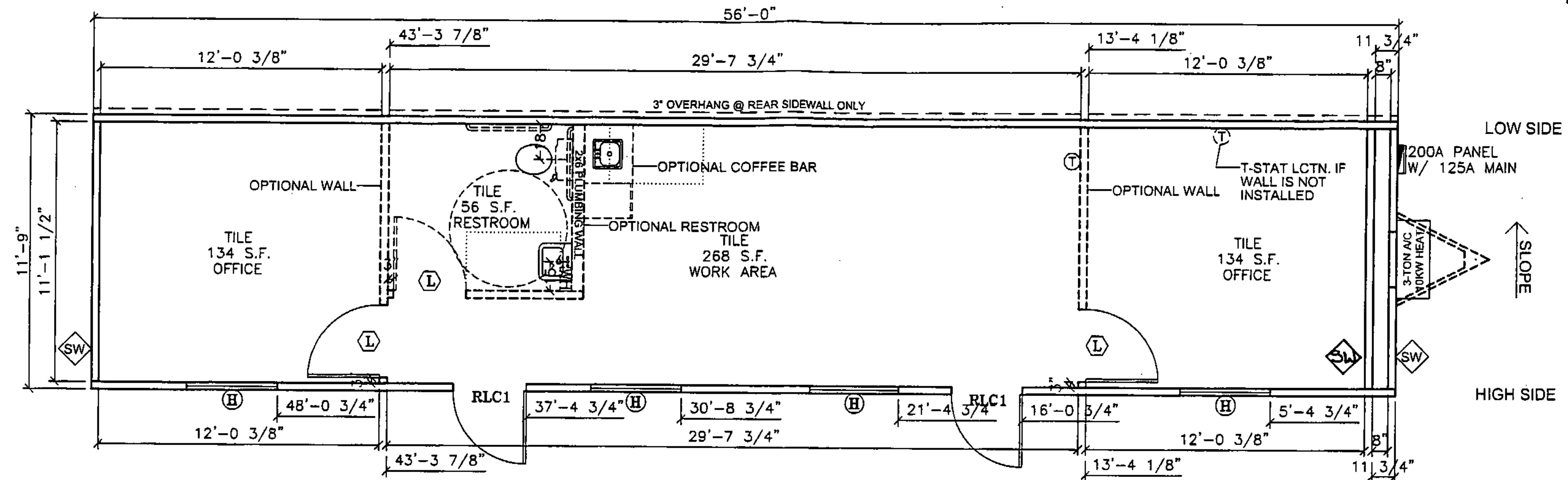
Approved PFS Corp. IHDR 7

LTR	REVISION	BY	DATE	DRAWN BY:	PROJECT:	TITLE:	AMT ^{EX} CORP. 832 EAST WALNUT GARLAND, TX 75040	
				M.L.S.	MOBILE MODULAR	ENERGY DESIGN INFORMATION		
				DATE:	SCALE:	DWG. NO.	SHEET	(972) 276-7626 FAX: (972) 276-5105 Email: engineering@amtexcorp.com
				8/23/06	N.T.S.	MM1260-2	A-1.1	

TILE RUN SAME DIRECTION
DO NOT STAGGER JOINTS



FLOOR TILE DETAIL



SCHEDULE \ LEGEND

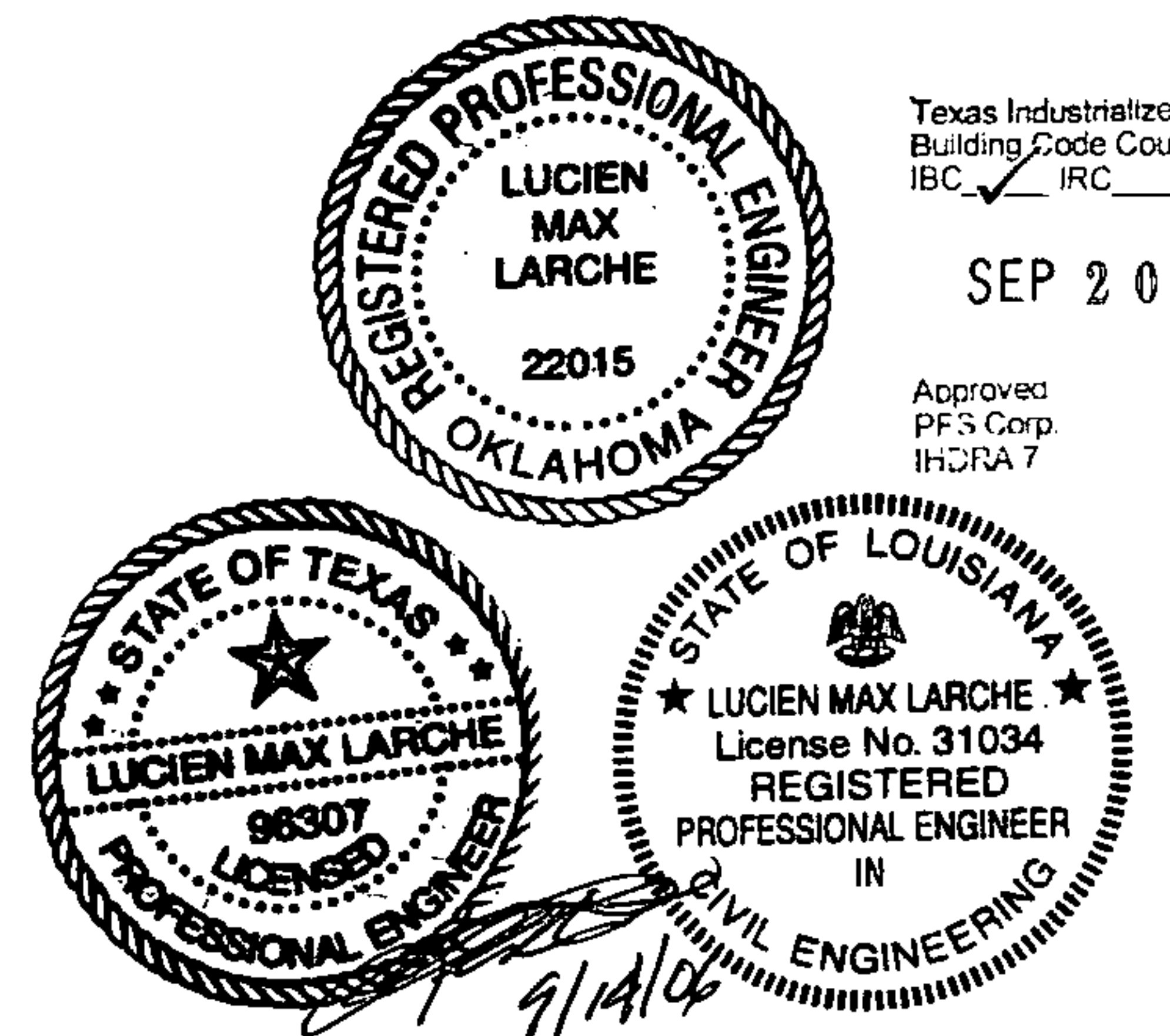
KEY	ITEM DESCRIPTION	SIZE	ROUGH OPENING
RLC1	36" X 80" RLC-1 ACTIVE - BLANK	36X80	37" X 81 1/4"
(L)	36" X 80" LEGACY WALNUT / TIMELY	36X80	37 1/4" X 81"
(H)	46" X 39" PHILIPS - H.S. BRONZE/TINTED	46X39	46 1/2" X 40" UP 41 1/4" HEADER @ 81-1/4"

SW = SHEARWALL (REF. AMTEX DESIGN MANUAL; SECTION 03.000 FOR FASTENING)

COLORS:
EXT. SIDING: CAMEL
EXT. TRIM: OXFORD

LTR	REVISION	BY	DATE	DRAWN BY:	PROJECT:	TITLE:	DWG. NO.	SHEET	AMTEX CORP.	832 EAST WALNUT GARLAND, TX 75040
				M.L.S.	MOBILE MODULAR	FLOOR PLAN	MM1260-2	A-2	(972) 276-7626 FAX: (972) 276-5105	Email: engineering@amtexcorp.com
			8/23/06		SCALE: 3/16"=1'-0"					

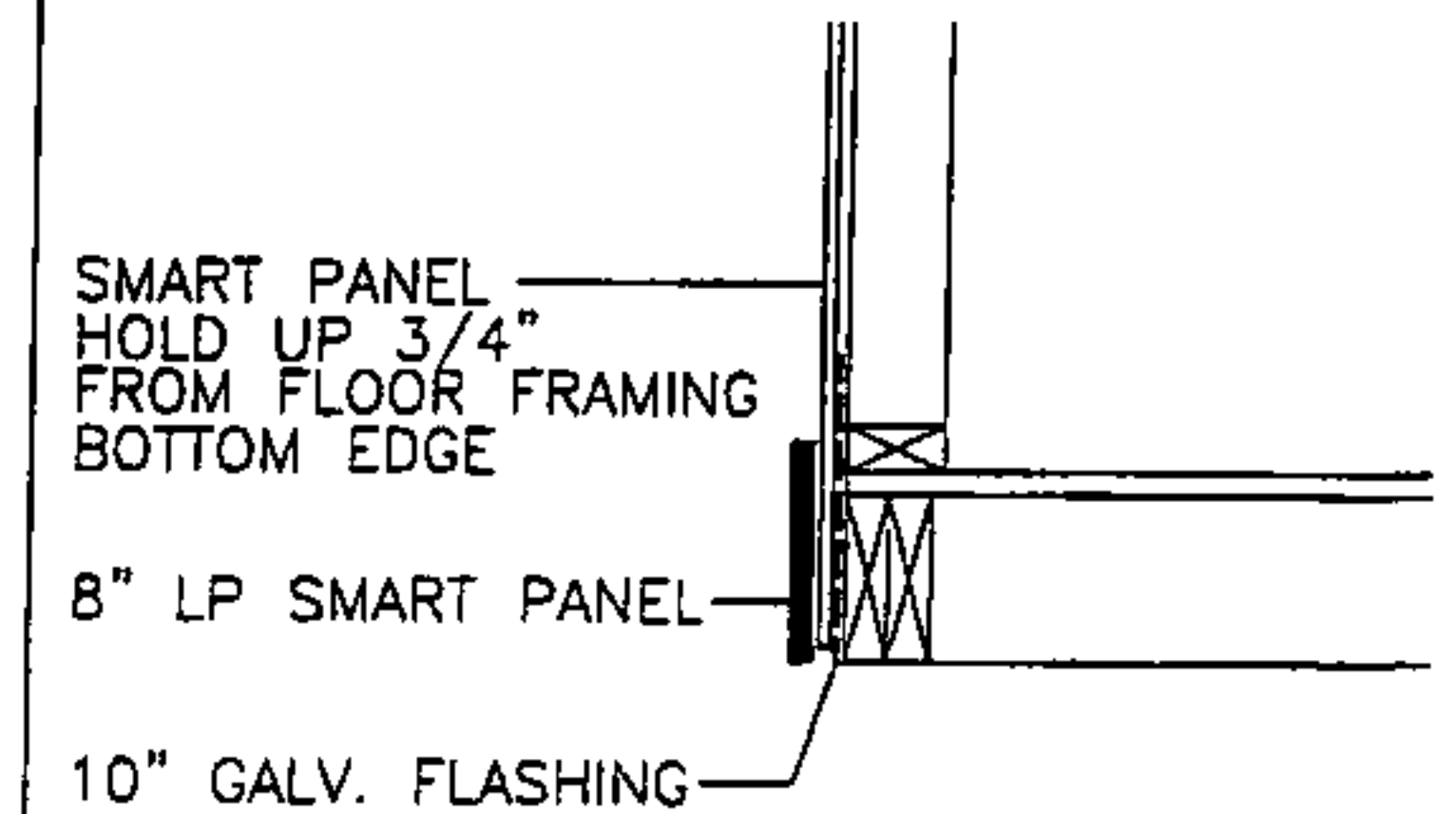
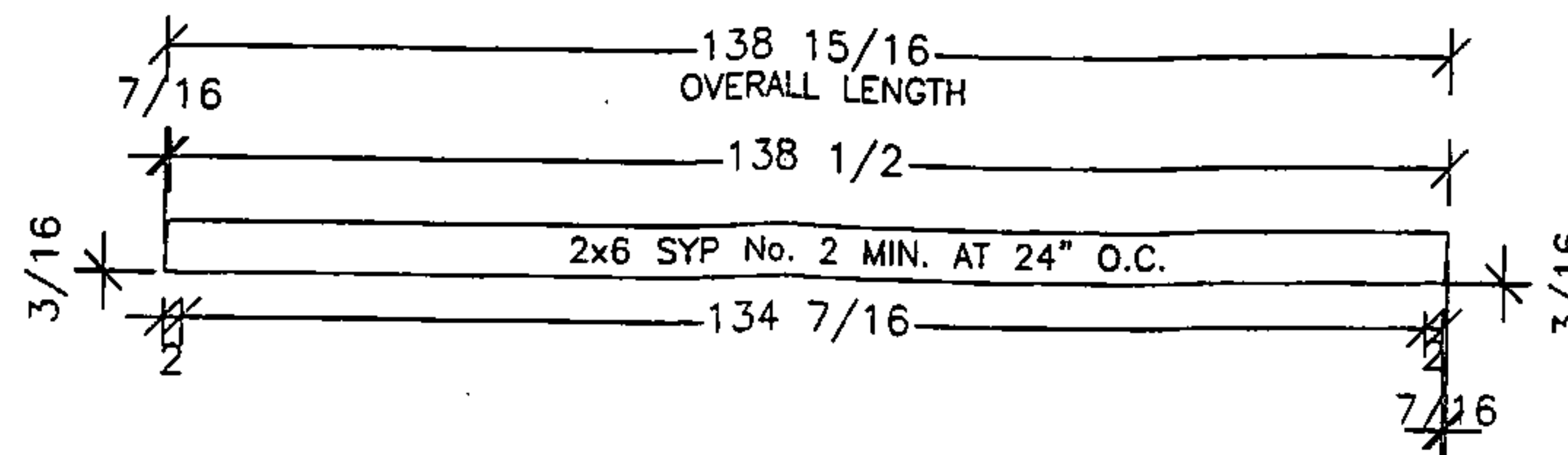
LAZENBY & ASSOCIATES, INC.
2000 North Seventh Street
P.O. Box 728
West Monroe, LA 71294-0728



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FLASHING / TRIM / SIDING

.0130 29GA HI-RIB STEEL ROOFING OVER
1/2" CDX PLYWOOD WITH H-CLIPS
& (1) LAYER 15# FELT OR EQUIV.

2x6 SYP No. 2 MIN. AT 24" O.C.

R-19 UNFACED INSULATION

ROOF RAFTERS SECURED TO SIDEWALL
WITH 30GA x 1-1/2" STRAP @ 24" O.C.
WITH 6-16GA STAPLES EACH END OF
EACH STRAP

2x6 RAFTER HEEL PLATE

2-2x4 TOP PLATE

2x4 No. 2 SYP OR BTR
STUDS AT 16" O.C.

SMART PANEL (8") EXT. SIDING
OVER WEYERHAUSER HOUSE WRAP
& 3/8" CDXPPLYWOOD ON ENDWALLS ONLY

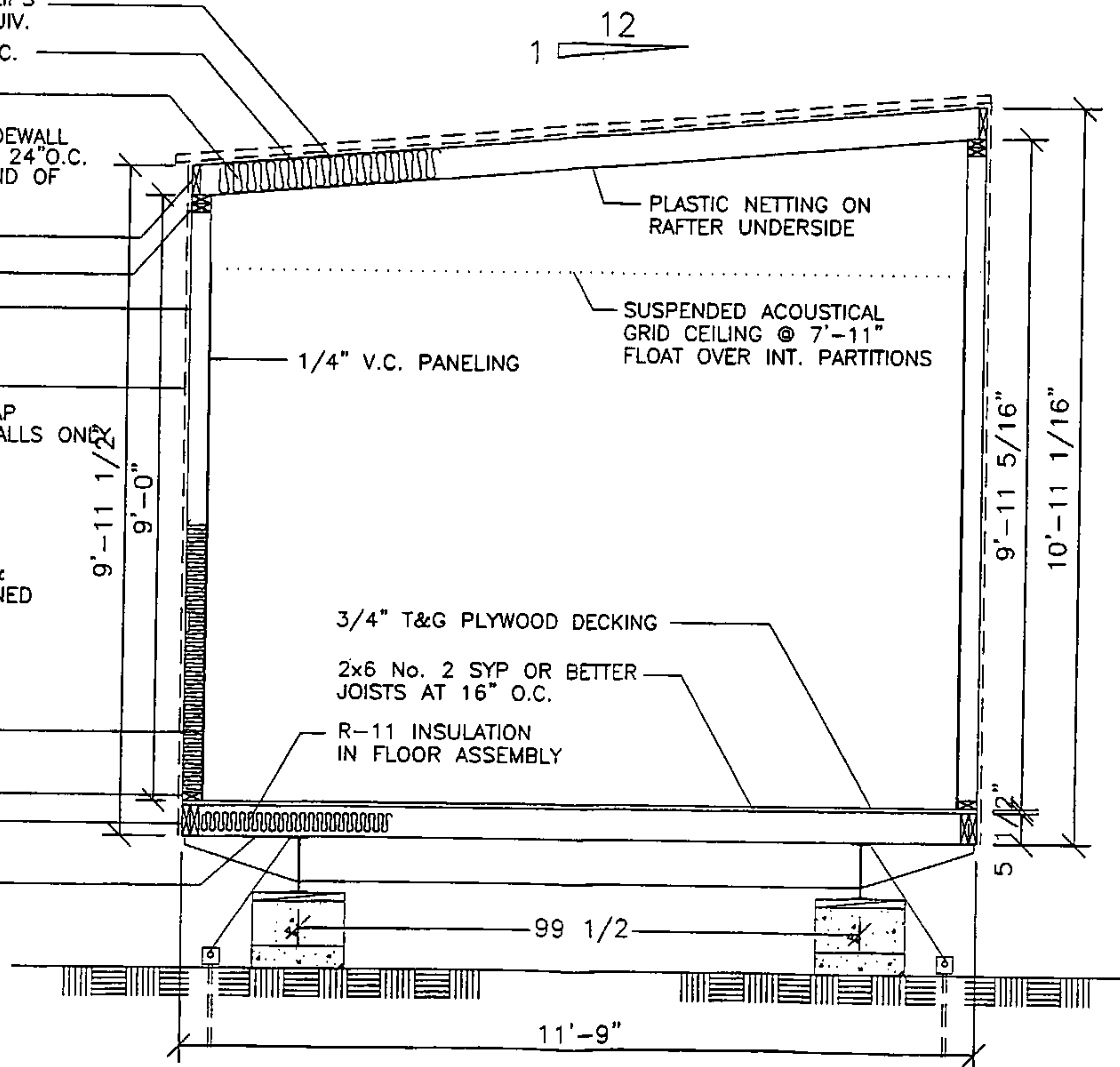
SIDEWALL STRAPPED TO FLOOR
WITH 1 1/2" X 30 GA. STRAPS
AT 6-STUDS FROM EACH END &
AT 32" O.C. THEREAFTER FASTENED
W/ 6-16GA STAPLES EACH END
OF EACH STRAP

R-11 FACED INSULATION

2x4 BOTTOM PLATE

2-2x6 No.2 SYP FLOOR
RIM JOIST

WOVEN POLYETHYLENE
BOTTOM BARRIER



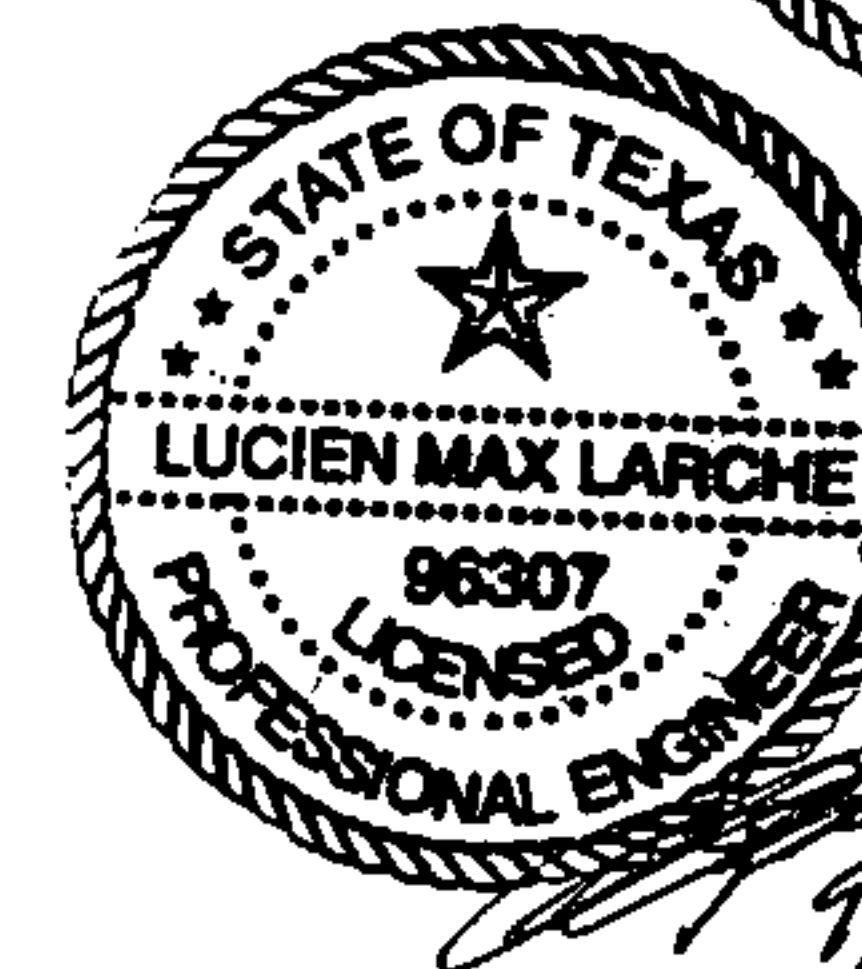
BACK VIEW

TRANSPORTATION HT.: 13'-10"

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2000 NORTH 7th STREET
WEST MONROE, LA 71294 # (318) 387-2710

AMTEX CORP.

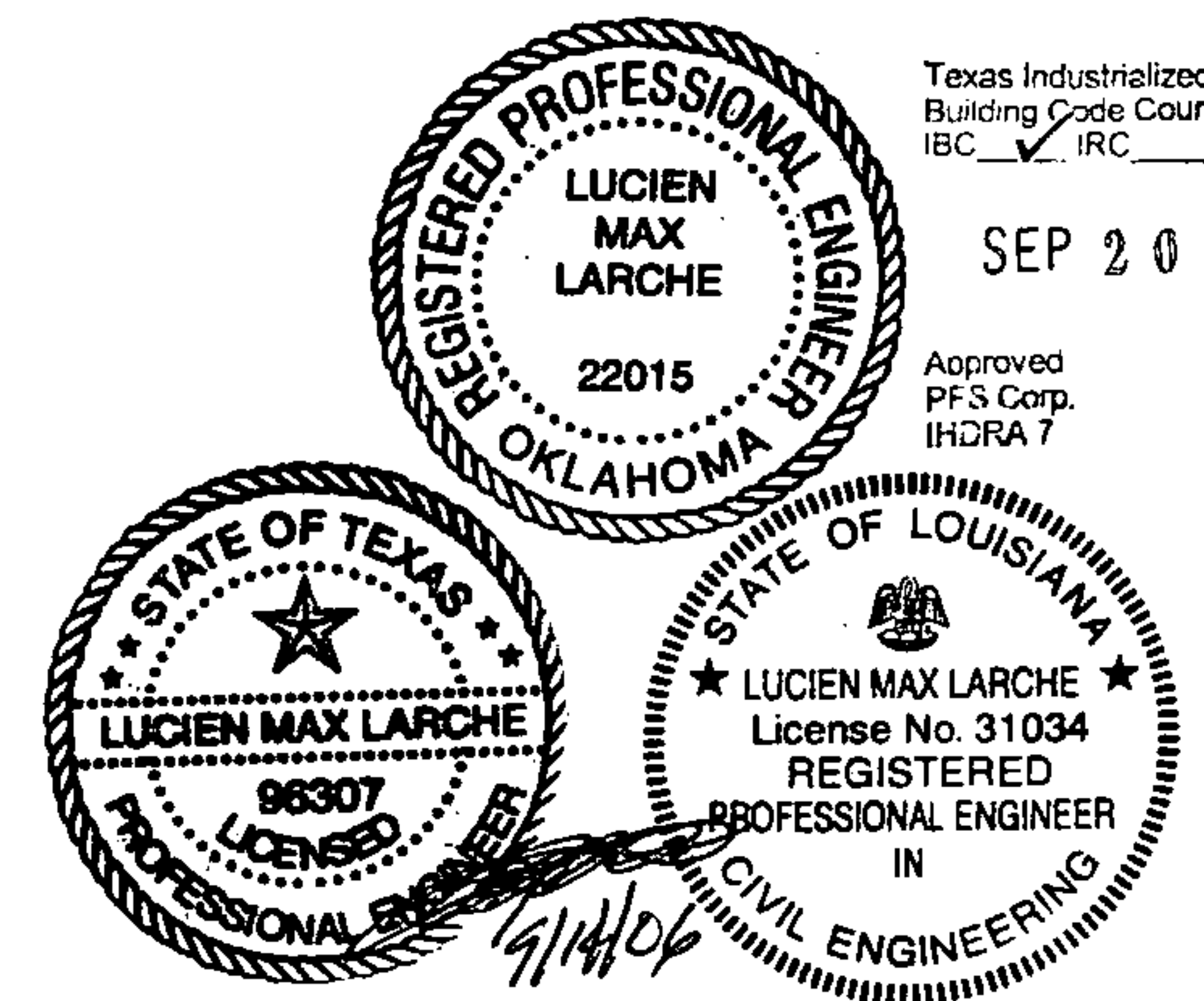
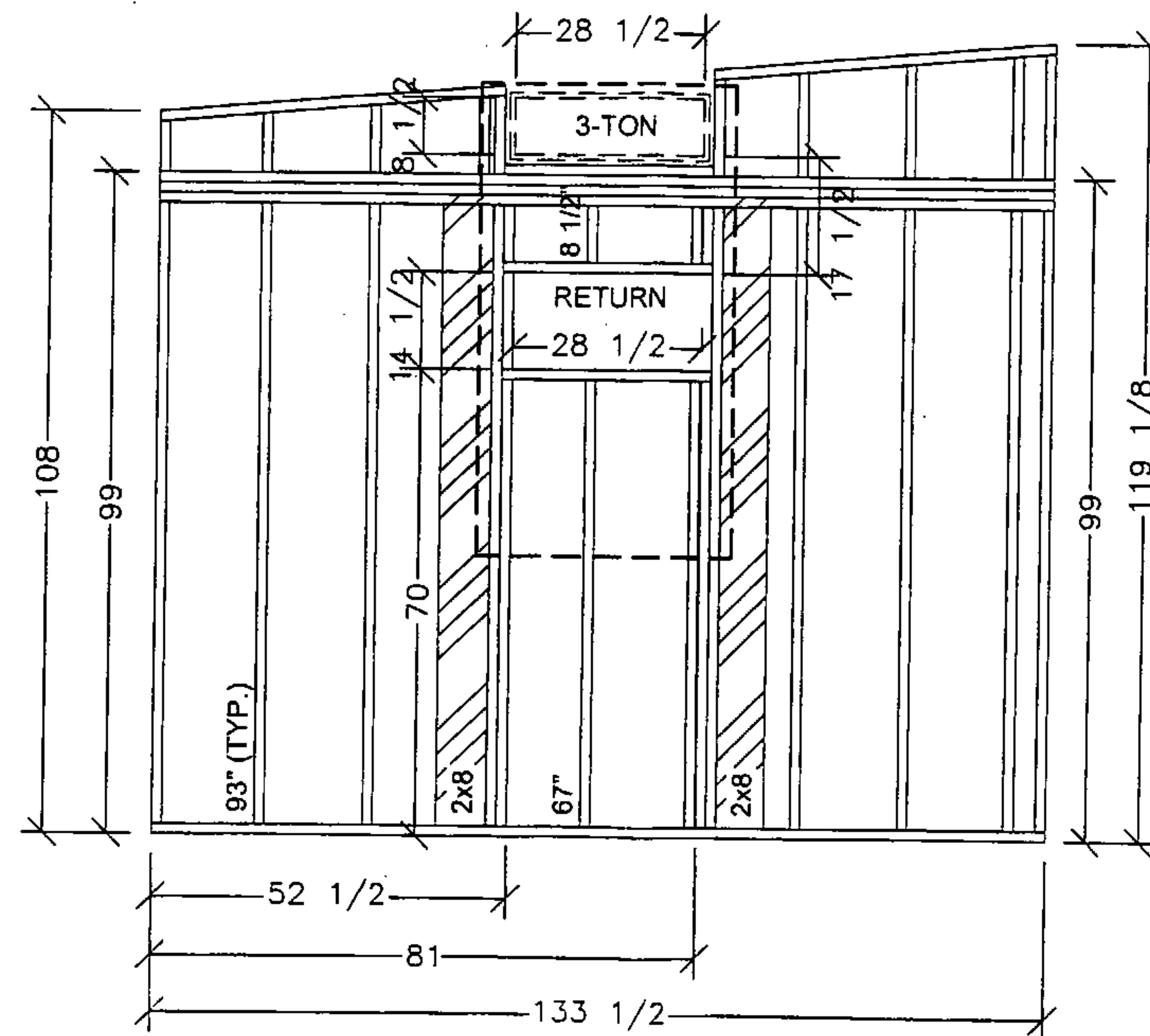
832 EAST WALNUT
GARLAND, TX 75040

(972) 276-7626 FAX: (972) 276-5105
Email: engineering@amtexcorp.com

LTR	REVISION	BY	DATE	DRAWN BY:	PROJECT:	TITLE:	SHEET
				M.L.S.	MOBILE MODULAR	CROSS SECTION	A-3
			8/23/06	DATE:	SCALE:	DWG. NO.	
					3/8"=1'-0"	MM1260-2	

MM1260-2
FRONT ENDWALL

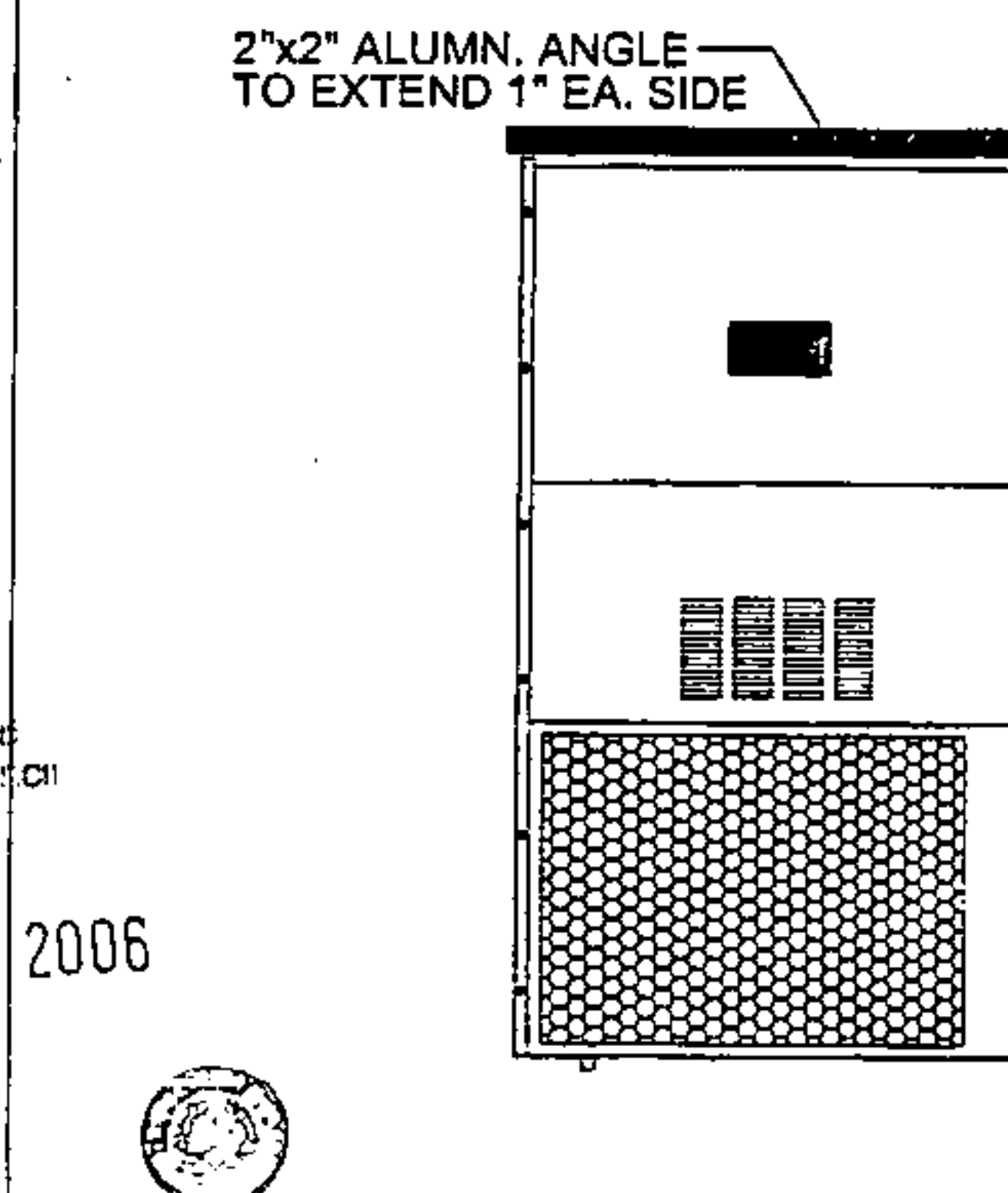
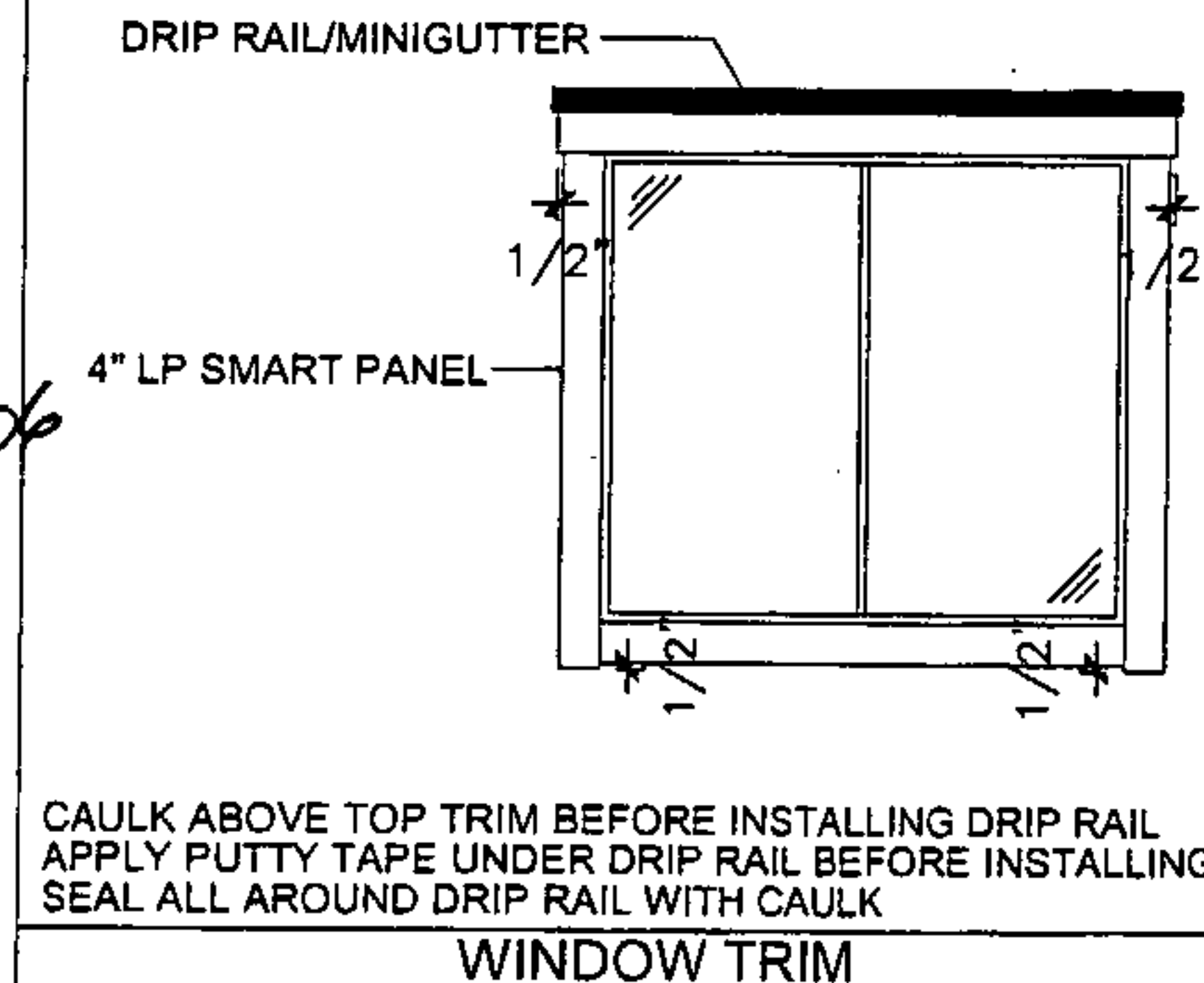
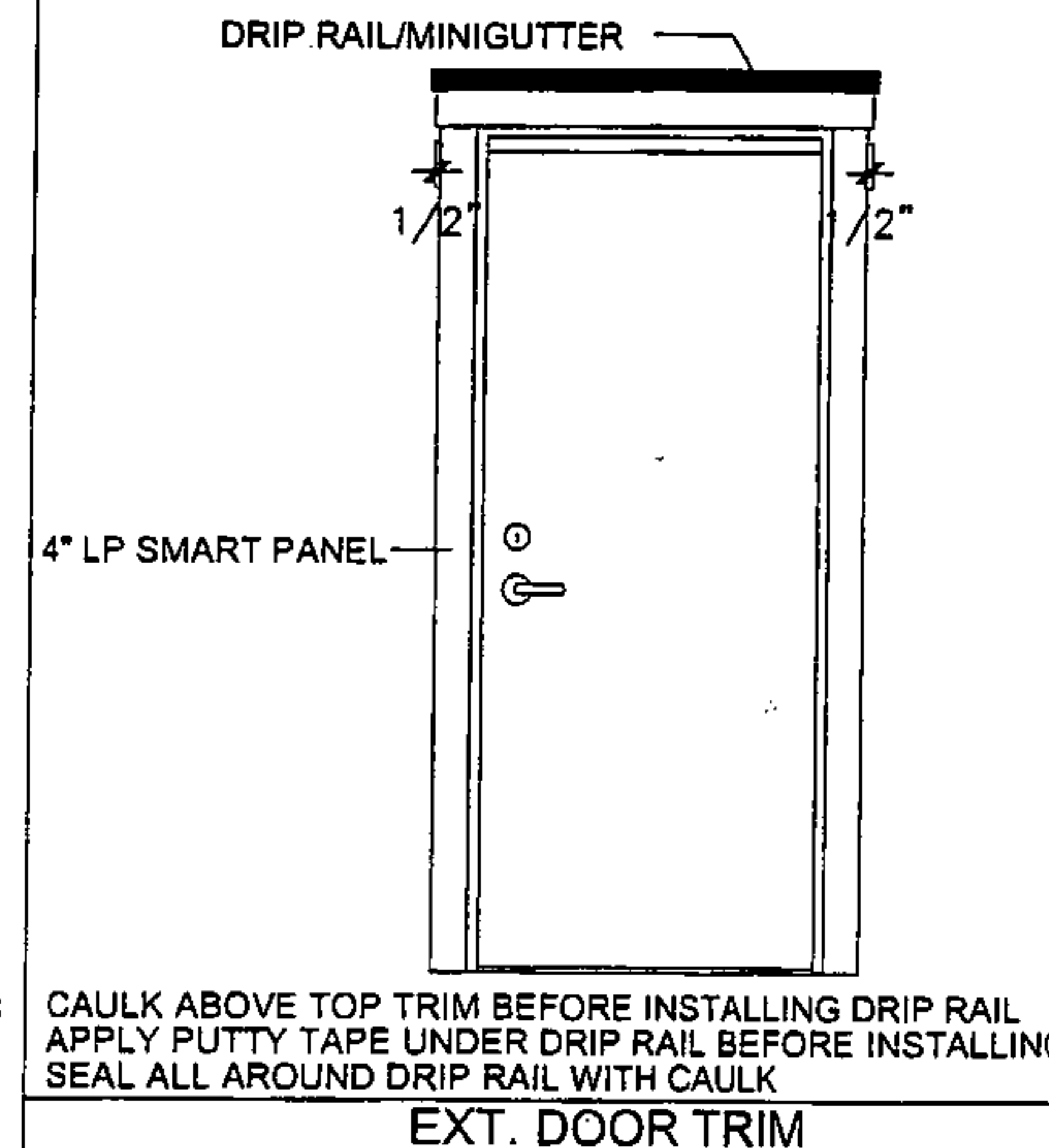
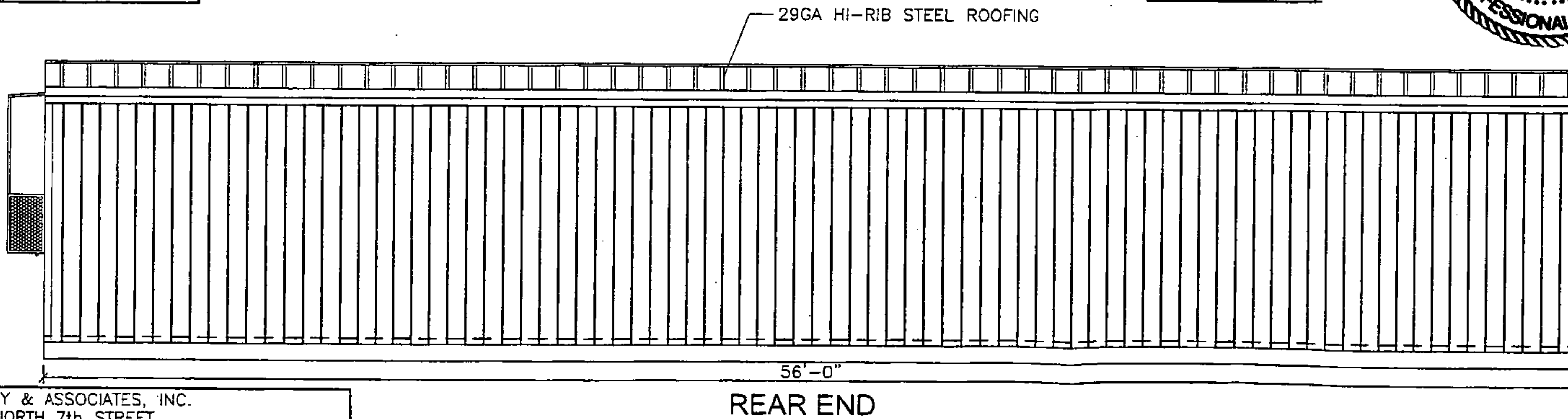
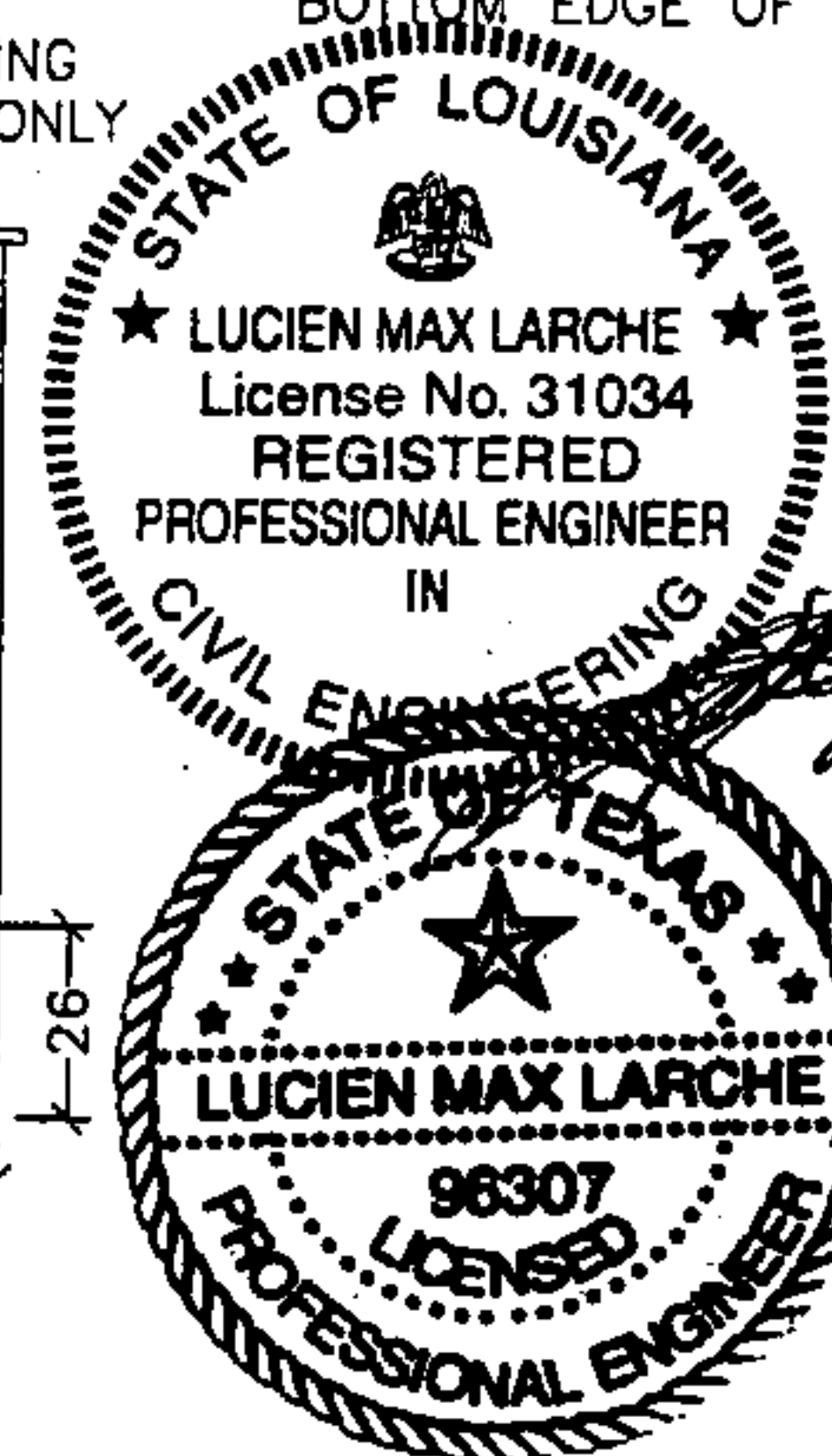
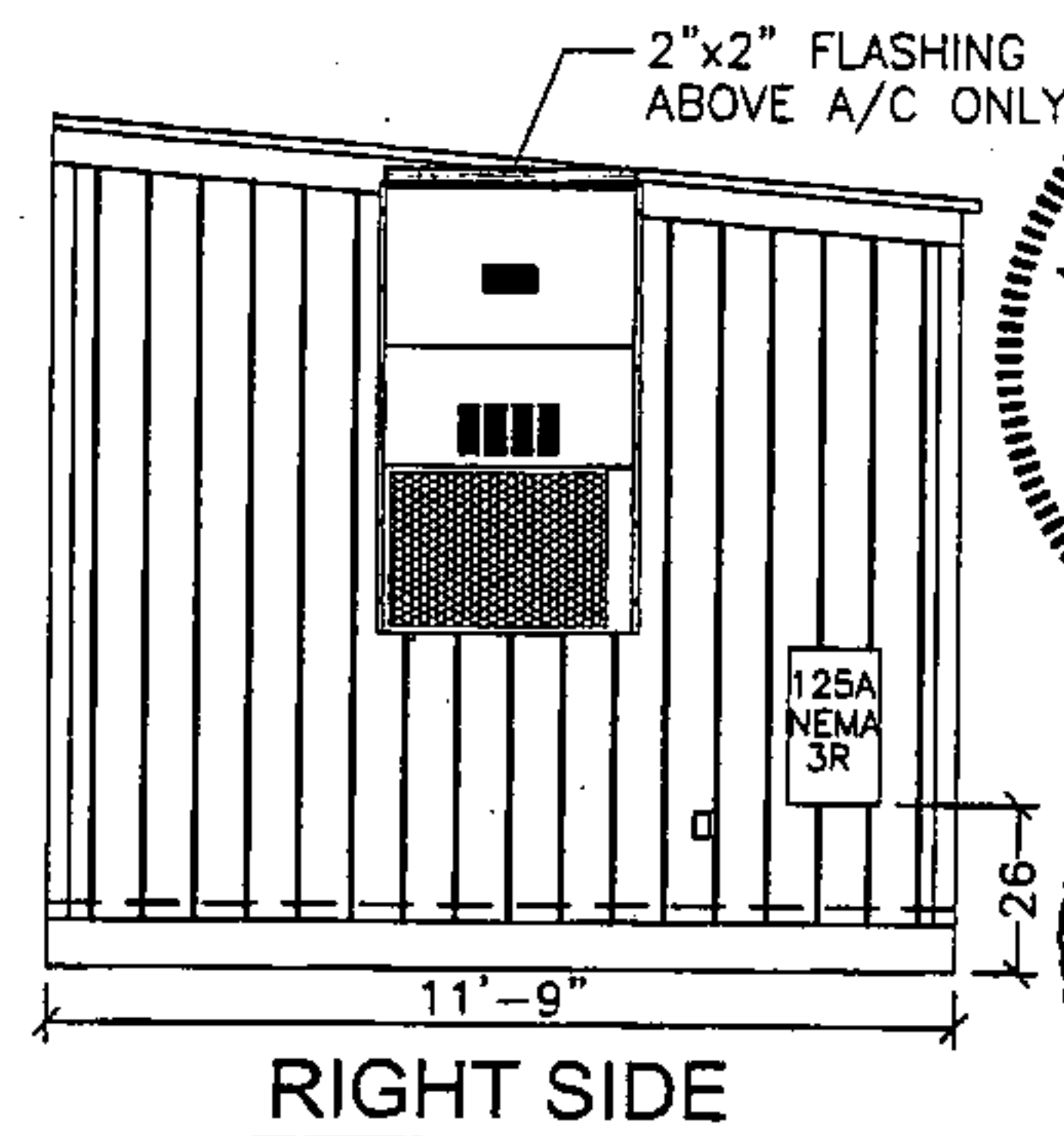
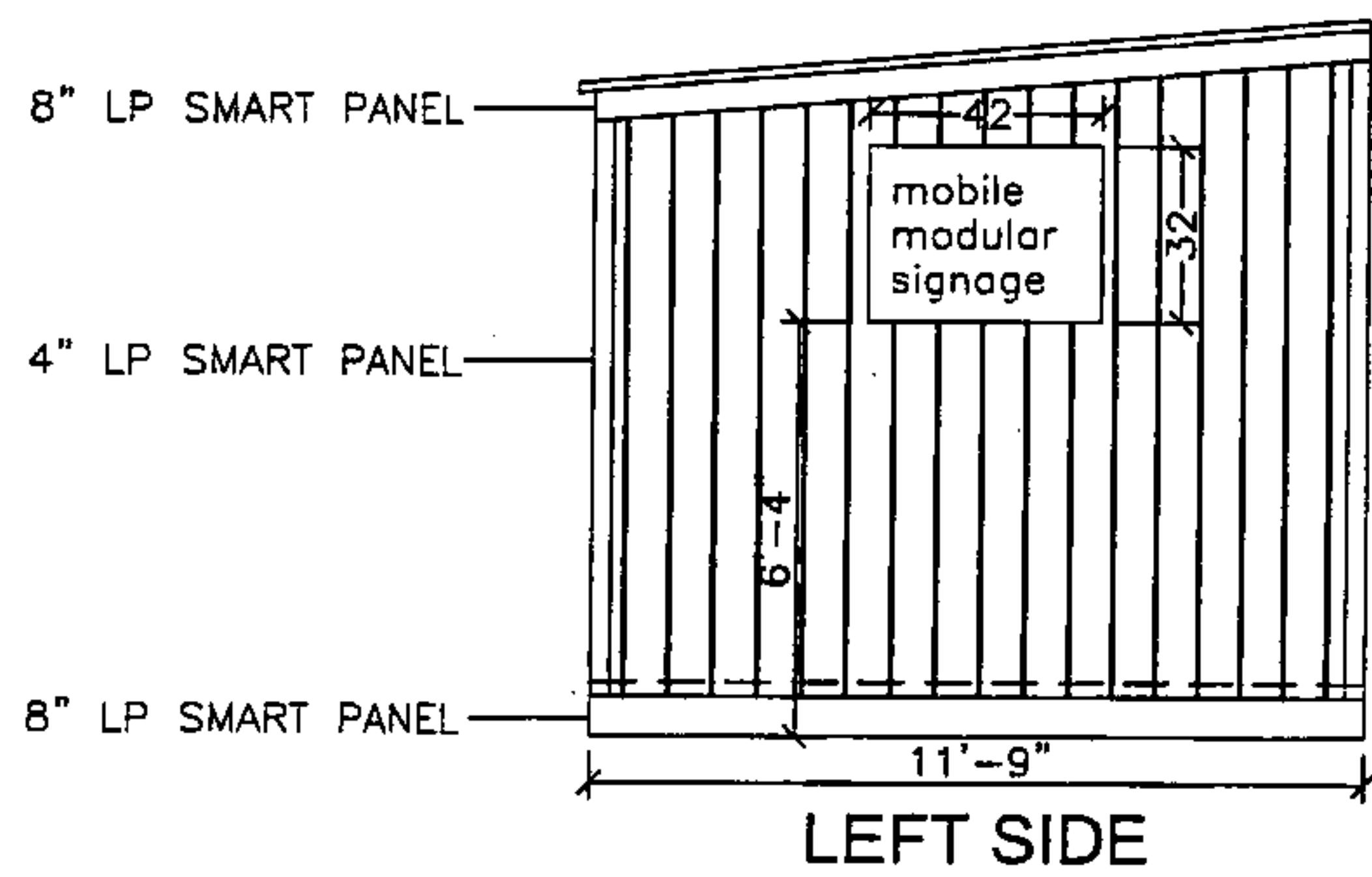
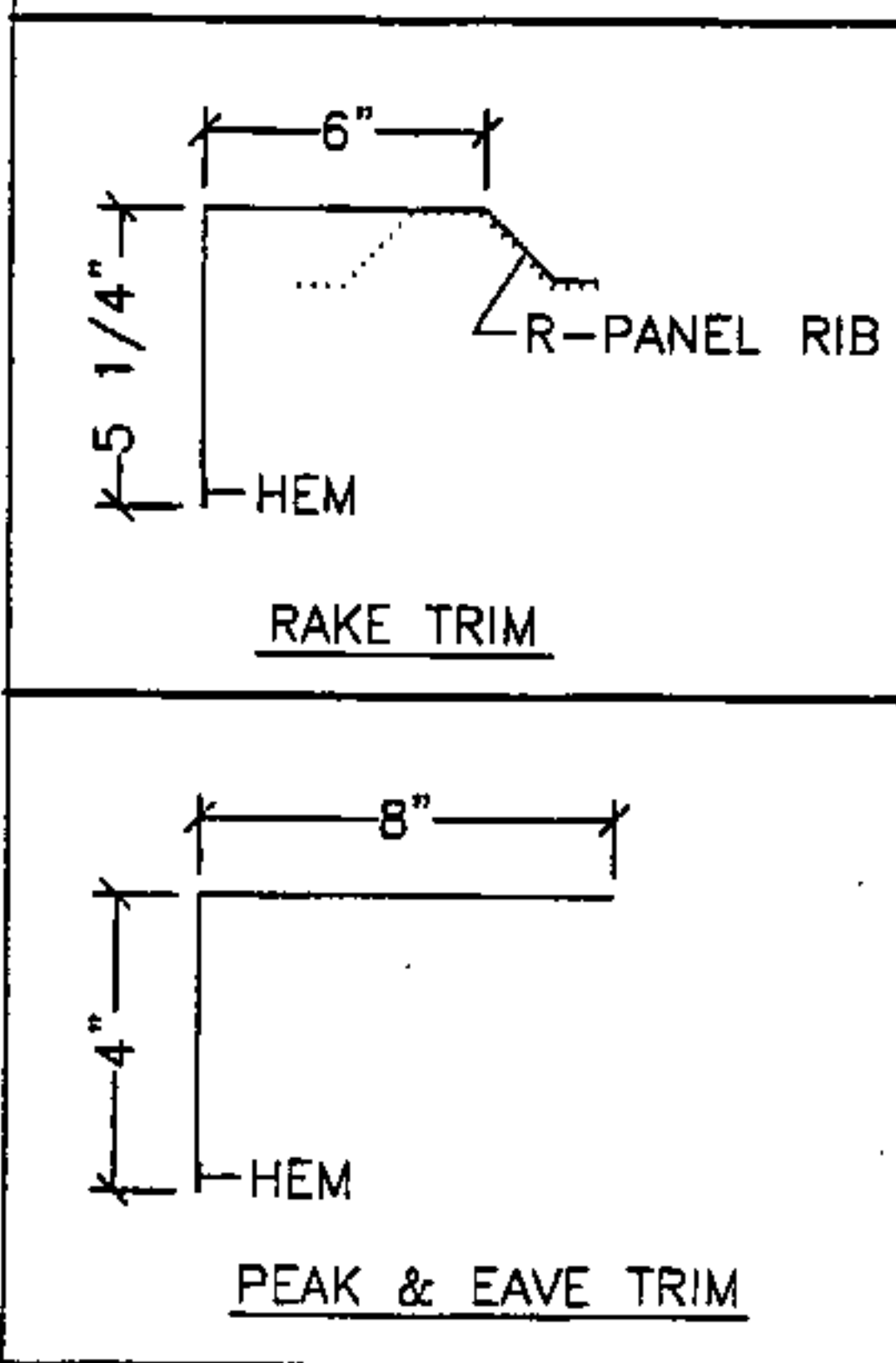
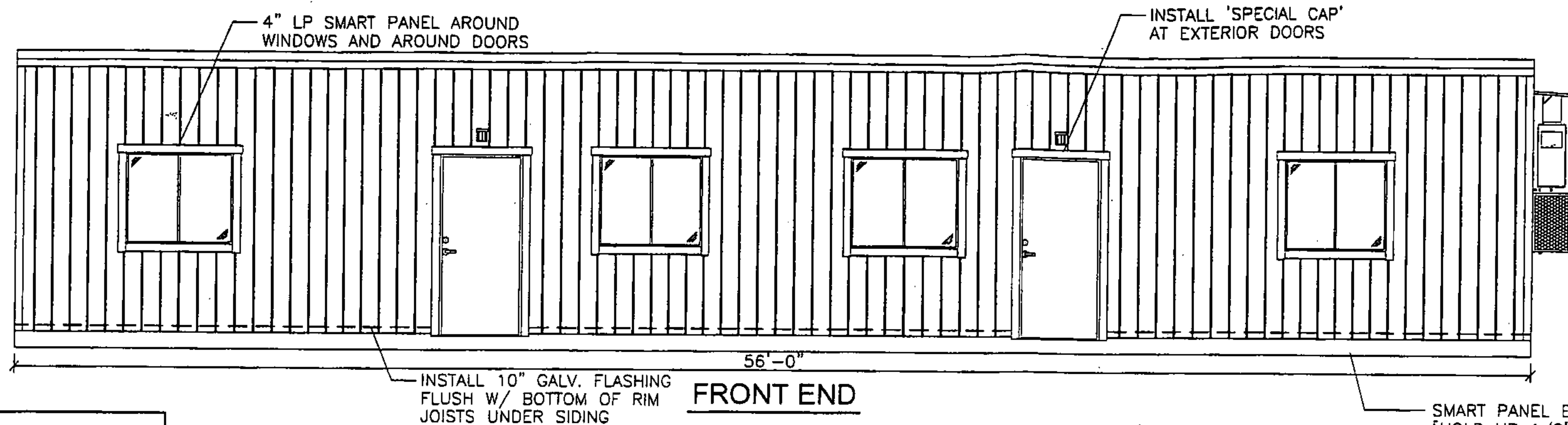
1 IN 12 PITCH
1/4" V.C. PANELING



LAZENBY & ASSOCIATES, INC.
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WEST MONROE, LA 71294 # (318) 387-2710

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GARLAND, TX 75040
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Email: engineering@amtexcorp.com

LTR	REVISION	BY	DATE	DRAWN BY:	PROJECT:	TITLE:	DWG. NO.	SHEET
				M.L.S.	MOBILE MODULAR	ENDWALL	MM1260-2	A-3.1
				DATE:	SCALE:			
				8/23/06	3/8"=1'-0"			



LAZENBY & ASSOCIATES, INC.
2000 NORTH 7th STREET
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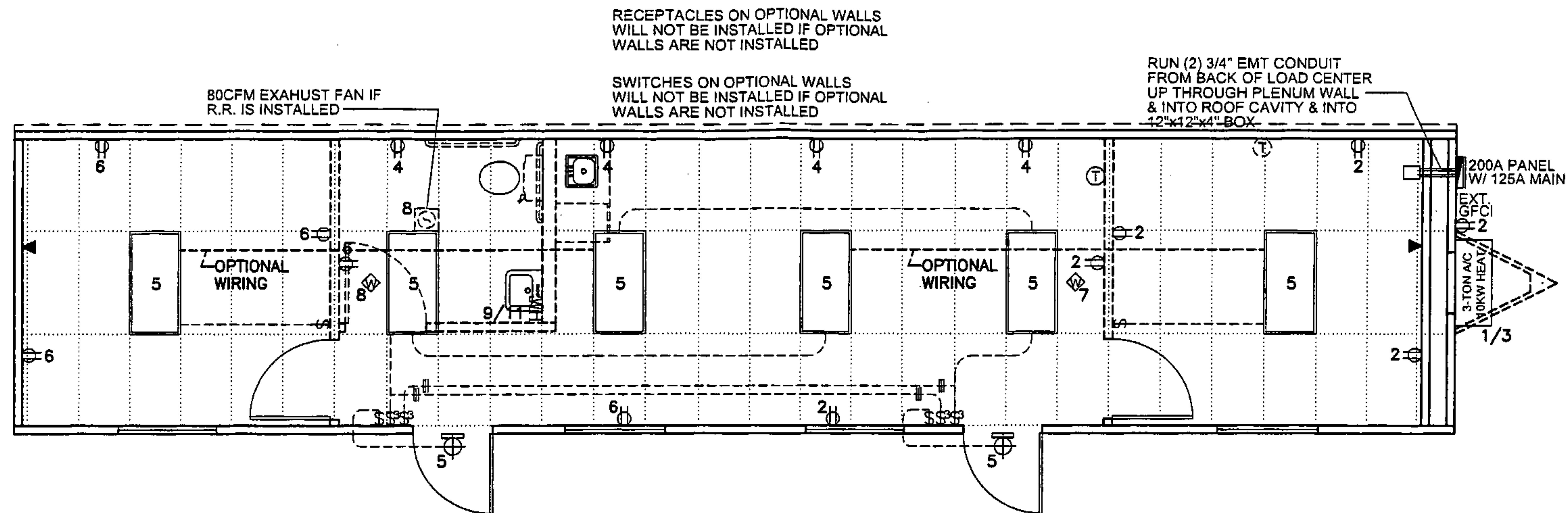


HVAC FLASHING

AMTEX 832 EAST WALNUT
GARLAND, TX 75040

(972) 276-7626 FAX: (972) 276-5105
Email: engineering@amtexcorp.com

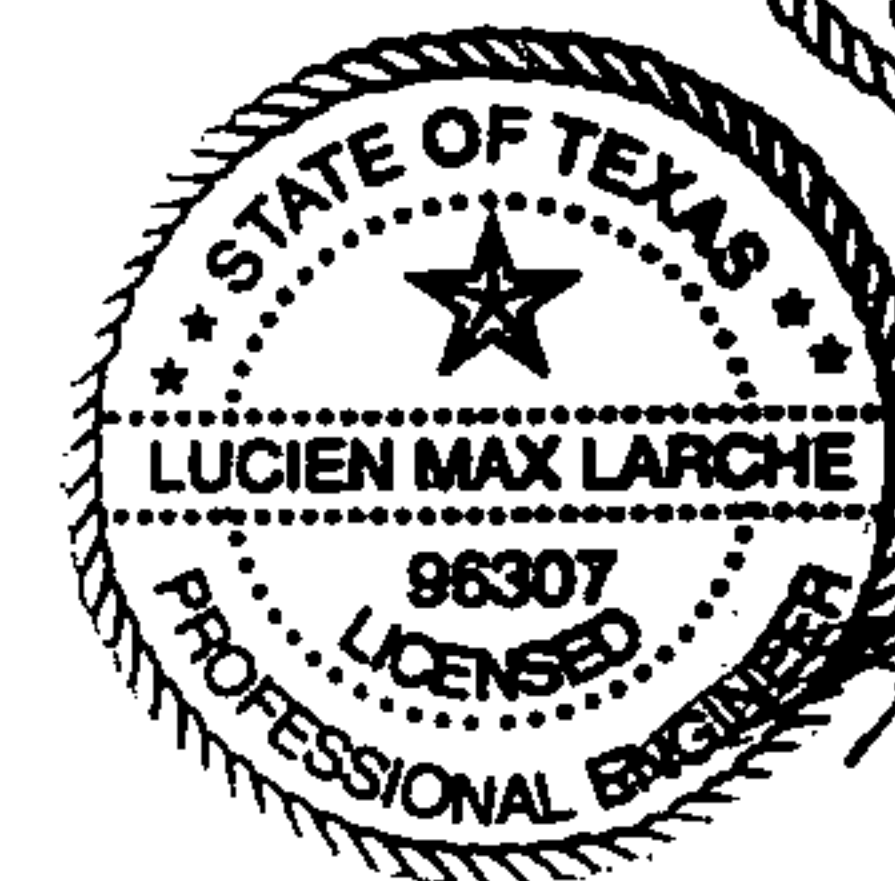
LTR	REVISION	BY	DATE	DRAWN BY:	PROJECT:	TITLE:	DWG. NO.	SHEET
				M.L.S.	MOBILE MODULAR "SALES OFFICE"	EXTERIOR ELEVATION	MM1260-2	A-3.2
			8/23/06		SCALE: 3/16" = 1'-0"			



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LAZENBY ASSOCIATES, INC.
2000 North Seventh Street
P.O. Box 728
West Monroe, LA 71294-0728

SYMBOL LEGEND

	2'x4' T-8 4 TUBE TROFFER W/ DIFFUSED LENS		PHONE / DATA JACK STUB-IN LCTN W/ BLANK COVER		WIRED J-BOX MTD. ABOVE CEILING		120V RECEPTACLE
	EXT. PORCH LIGHT W/ PHOTOCELL UP 90° FROM BOTTOM		THERMOSTAT LOCATION ROBERTSHW 9600 UP 48" A.F.F.		120v SINGLE TOGGLE SWITCH		200 AMP LOAD CENTER W/ 125A MAIN BREAKER UP 26" FROM BOTTOM
							80CFM EXHAUST FAN ONLY

LTR	REVISION	BY	DATE	DRAWN BY:	PROJECT:	TITLE:	SHEET	AMTEX	832 EAST WALNUT GARLAND, TX 75040
				M.L.S.	MOBILE MODULAR	ELECTRICAL	E-1	(972) 276-7626 FAX: (972) 276-5105 Email: engineering@amtexcorp.com	
				DATE: 8/23/06	SCALE: 3/16"=1'-0"	DWG. NO. MM1260-2			

PANEL BOX LOAD CALCULATION

01 3-TON AC W/10KW (HEATING CONTROLS) 10624 WATTS

OTHER LOADS:

06 FOUR TUBE FLR. LIGHT AT 122 WATTS EACH X 125% 915 WATTS

02 FLUORESCENT PORCH LIGHT AT 13 WATTS EACH X 125% 34 WATTS

13 120v RECEPTACLES AT 180 WATTS EACH 2340 WATTS

01 W.P. EXT. GFCI 120v RECEP. AT 180 WATTS 180 WATTS

02 WIRED J-BOXES AT 180 WATTS 360 WATTS

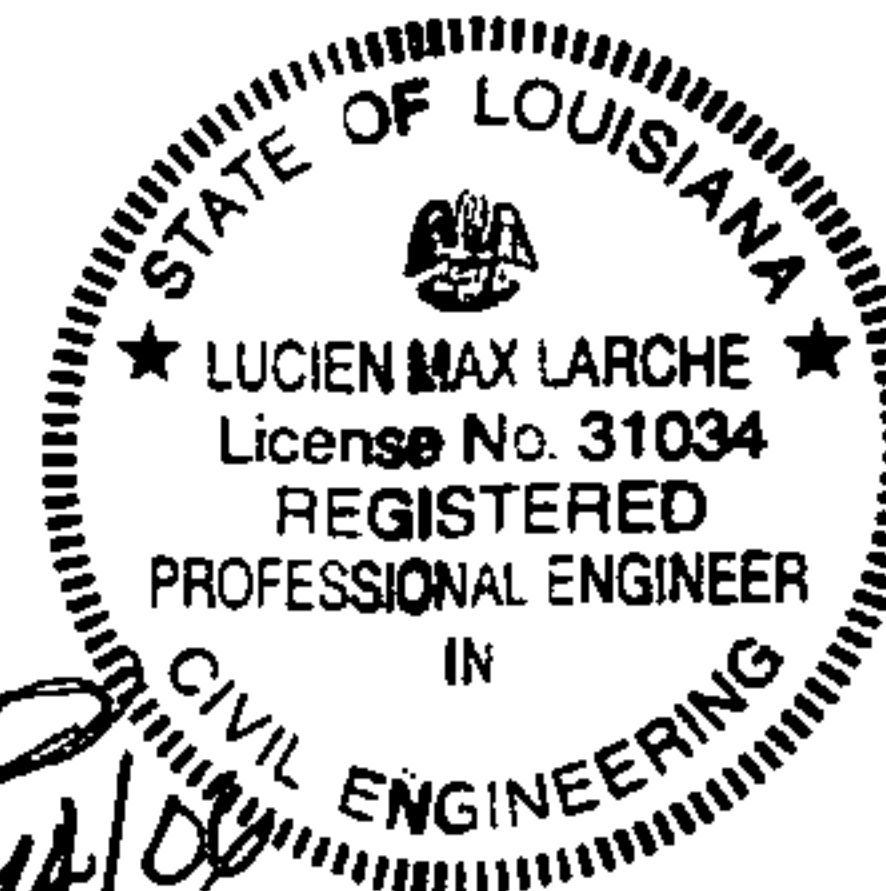
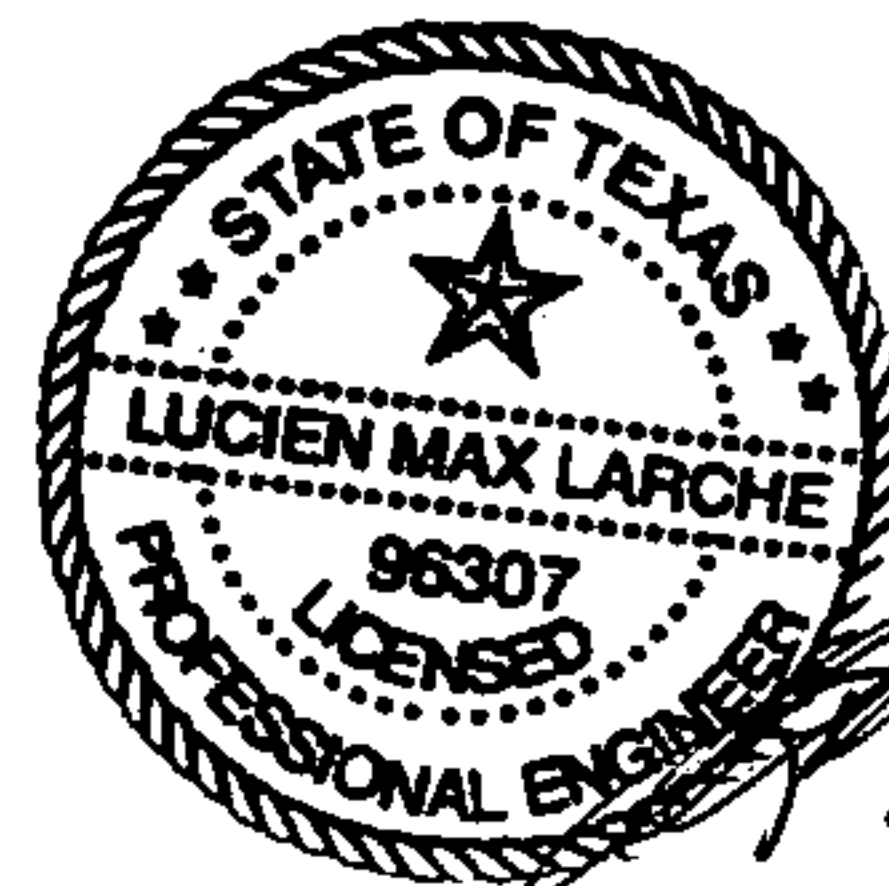
01 80CFM EXHAUST FAN AT 156 WATTS 156 WATTS

01 EEMAX SP-55 WATER HEATER AT 5500 WATTS 5500 WATTS

20109 WATTS

TOTAL LOADS:

20109 WATTS÷240 = 84 AMPS



CUTLER HAMMER: BR1224N200R

PANEL BOX 200 AMP
W/ 125AMP MAIN BREAKER

WIRE	CIRCUIT	AMP	AMP	CIRCUIT	WIRE
#6	HVAC UNIT	60	1	2	20 RECEPTACLES #12
		2P	3	4	20 RECEPTACLES #12
#12	LIGHTS	20	5	6	20 RECEPTACLES #12
#12	WIRED J-BOX	20	7	8	20 WIRED J-BOX #12
#10	OPTIONAL W.H.	30	9	10	- OPEN -
		2P	11	12	- OPEN -
-	OPEN	-	13	14	- OPEN -
-	OPEN	-	15	16	- OPEN -
-	OPEN	-	17	18	- OPEN -
-	OPEN	-	19	20	- OPEN -
-	OPEN	-	21	22	- OPEN -
-	OPEN	-	23	24	- OPEN -

GROUND BAR

NEUTRAL

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IHDR 7

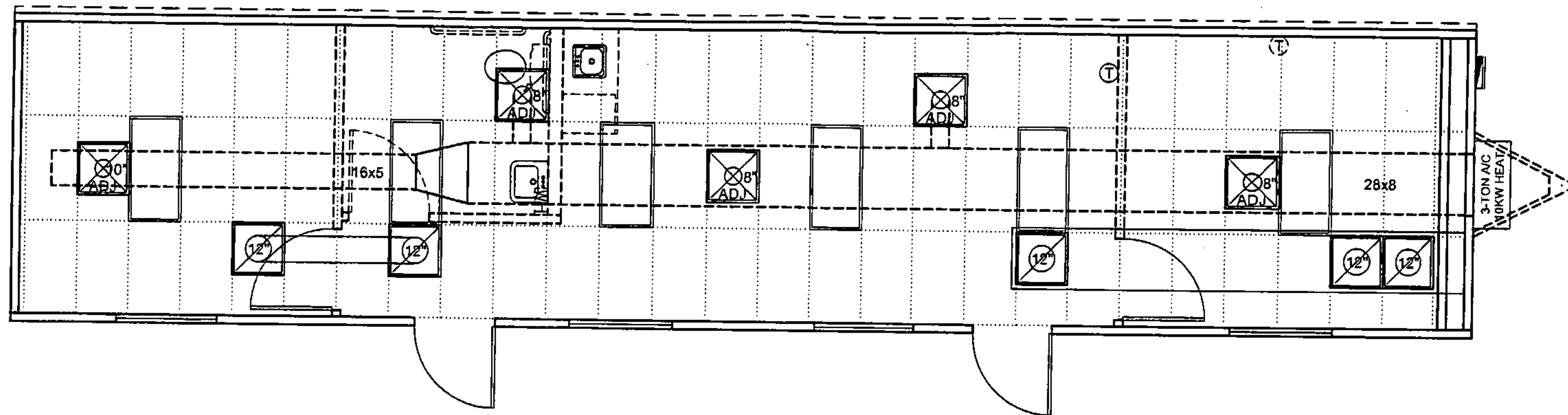
LAZENBY & ASSOCIATES, INC.
2000 NORTH 7th STREET
WEST MONROE, LA 71294 #(318) 387-2710

AMTEX

832 EAST WALNUT
GARLAND, TX 75040

(972) 276-7626 FAX: (972) 276-5105
Email: engineering@amtexcorp.com

LTR	REVISION	BY	DATE	DRAWN BY:	PROJECT:	TITLE:	DWG. NO.	SHEET	
				M.L.S.	MOBILE MODULAR	PANEL BOX & ELECTRICAL CALCS.	MM1260-2	E-1.1	
			8/23/06		N.T.S.				



SYMBOL LEGEND

-
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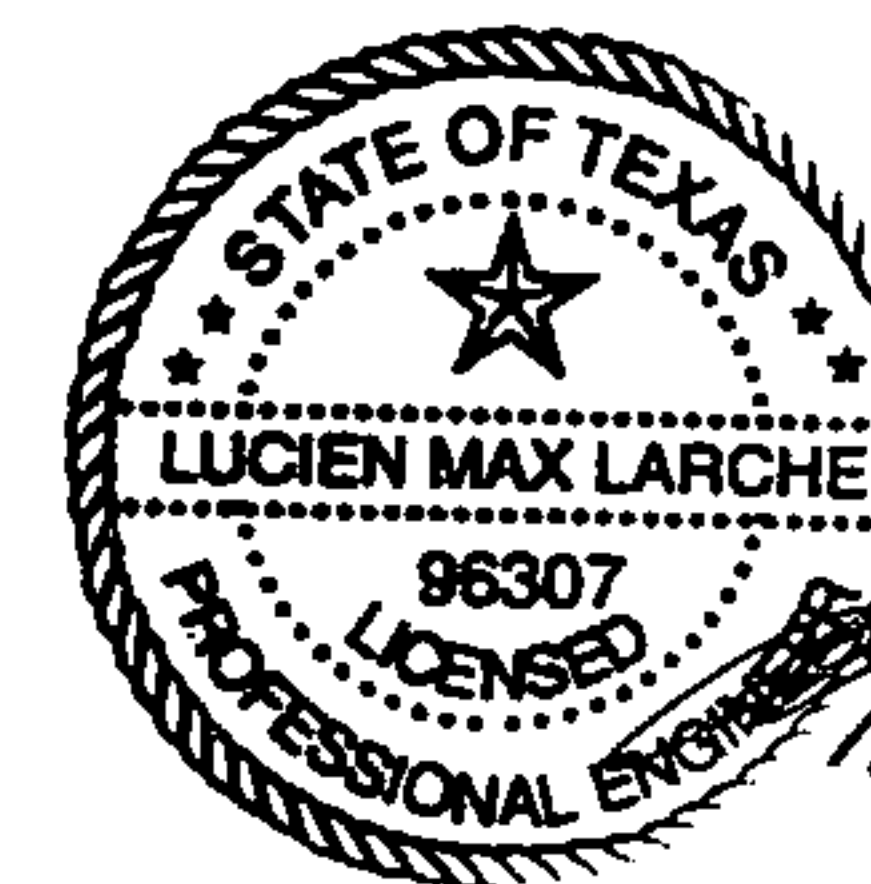
LAZENBY & ASSOCIATES, INC.
2000 North Seventh Street
P.O. Box 728
West Monroe, LA 71294-0728



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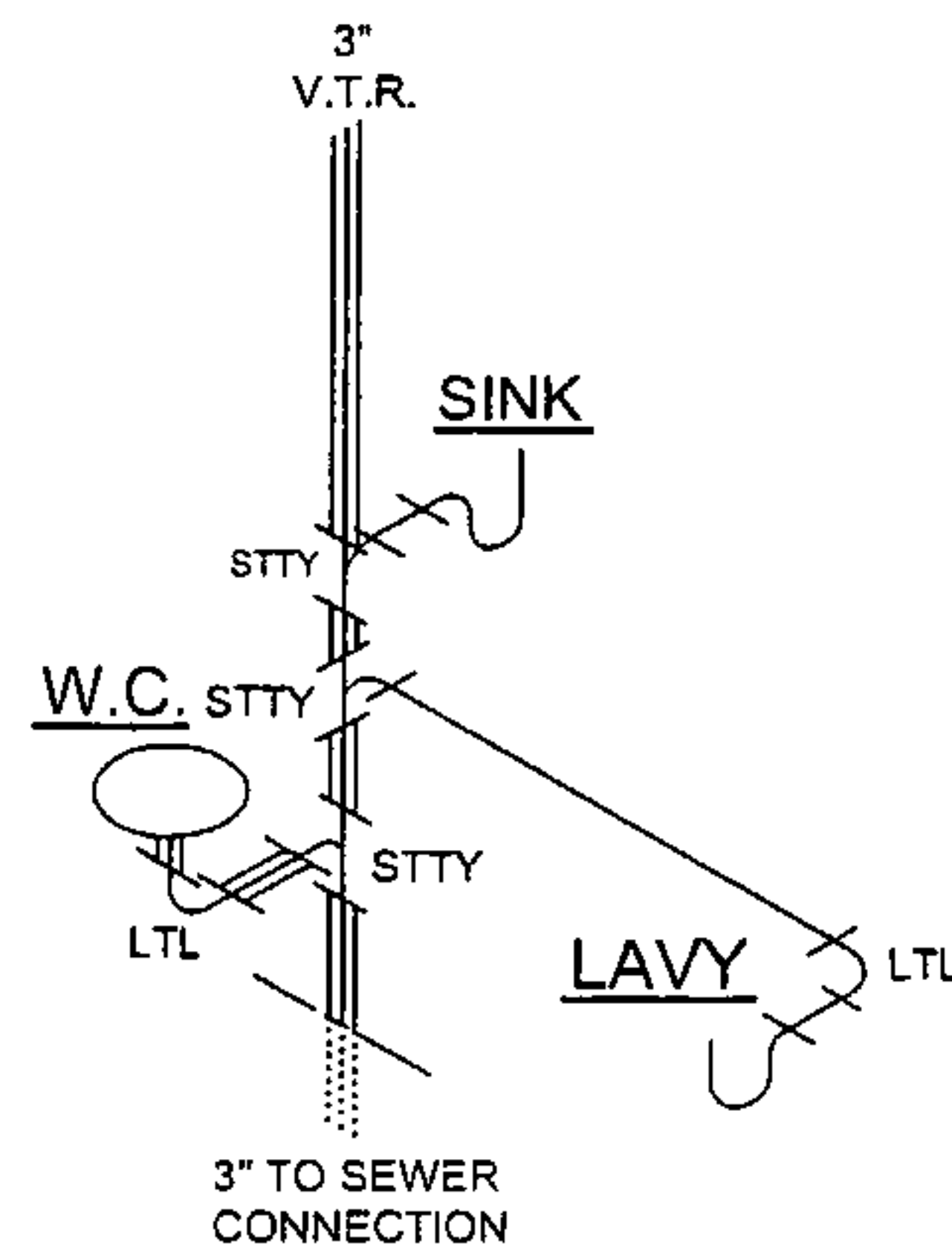
LTR	REVISION	BY	DATE	DRAWN BY:	PROJECT:	TITLE:	DWG. NO.	SHEET	
				M.L.S.	MOBILE MODULAR	CEILING & HVAC LAYOUT	MM1260-2	M-1	
				DATE:	SCALE:				
				8/23/06	3/16"=1'-0"				

DWV PIPING LEGEND

	1 1/2" DWV LINE
	2" DWV LINE
	3" DWV LINE

NOTE: DRAIN 'TREES' ARE STUBBED THRU FLOOR ONLY AT FACTORY AND FINAL CONNECTION TO SEWER IS TO BE COMPLETED ON-SITE BY OTHERS.

MANIFOLD PROVIDED & INSTALLED ON-SITE BY OTHERS.



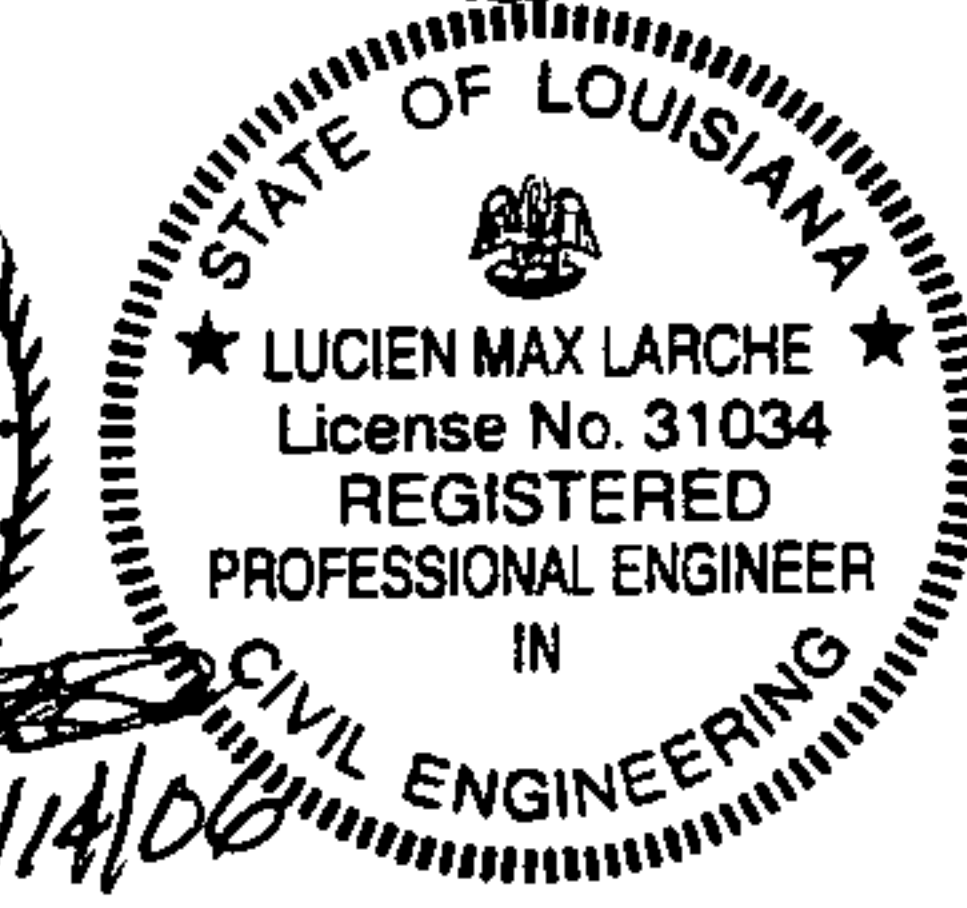
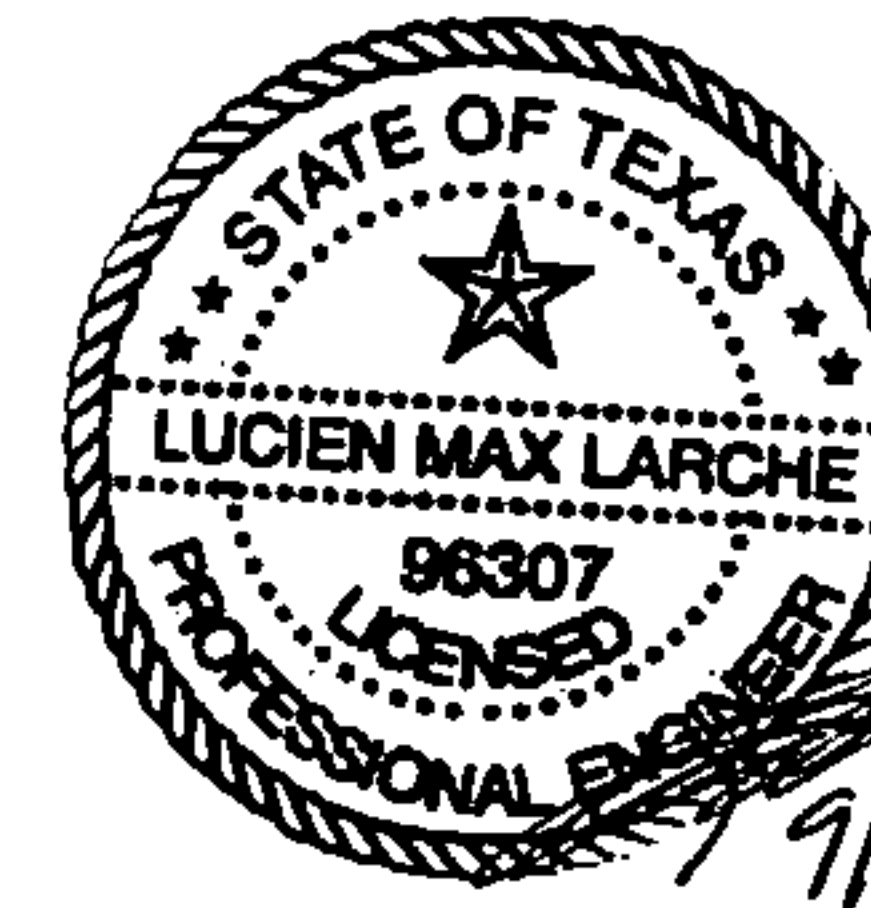
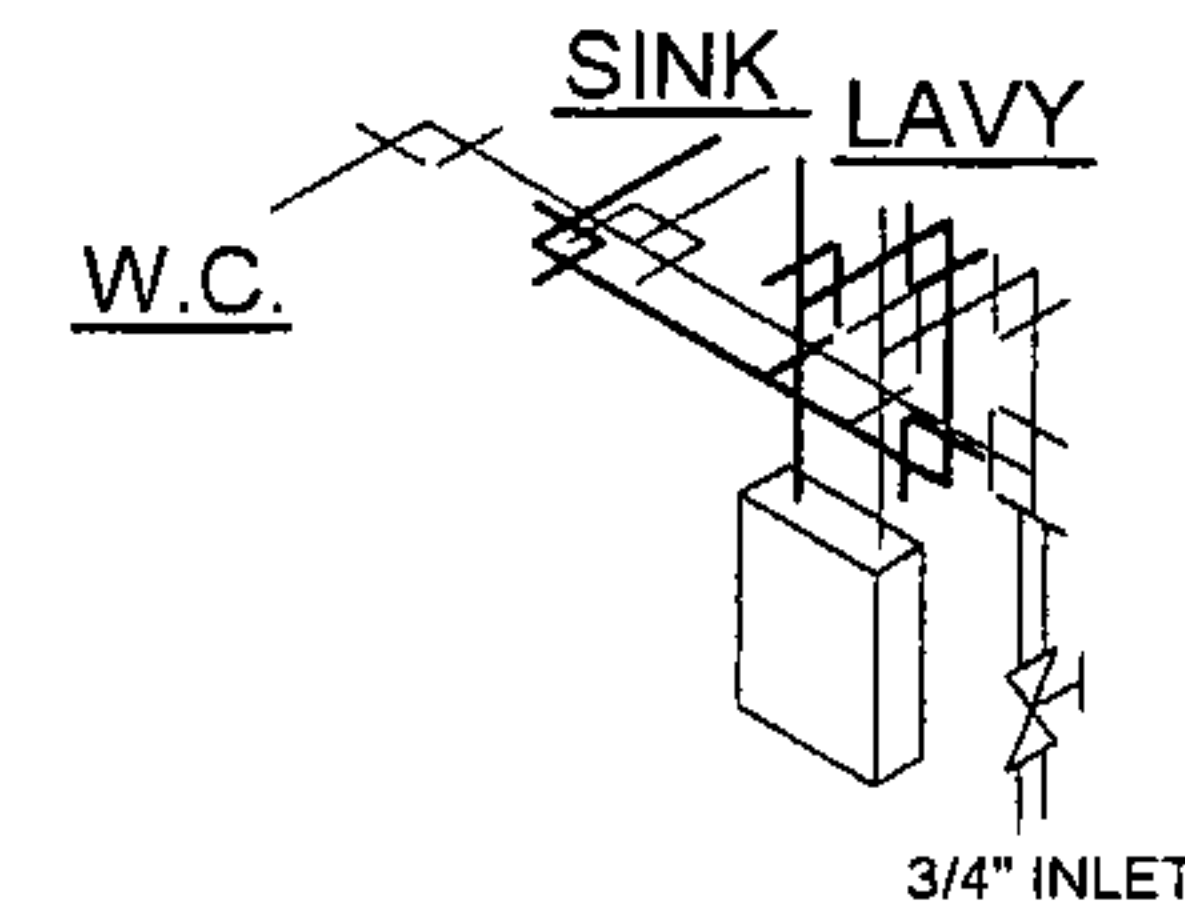
WATER LINE LEGEND

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

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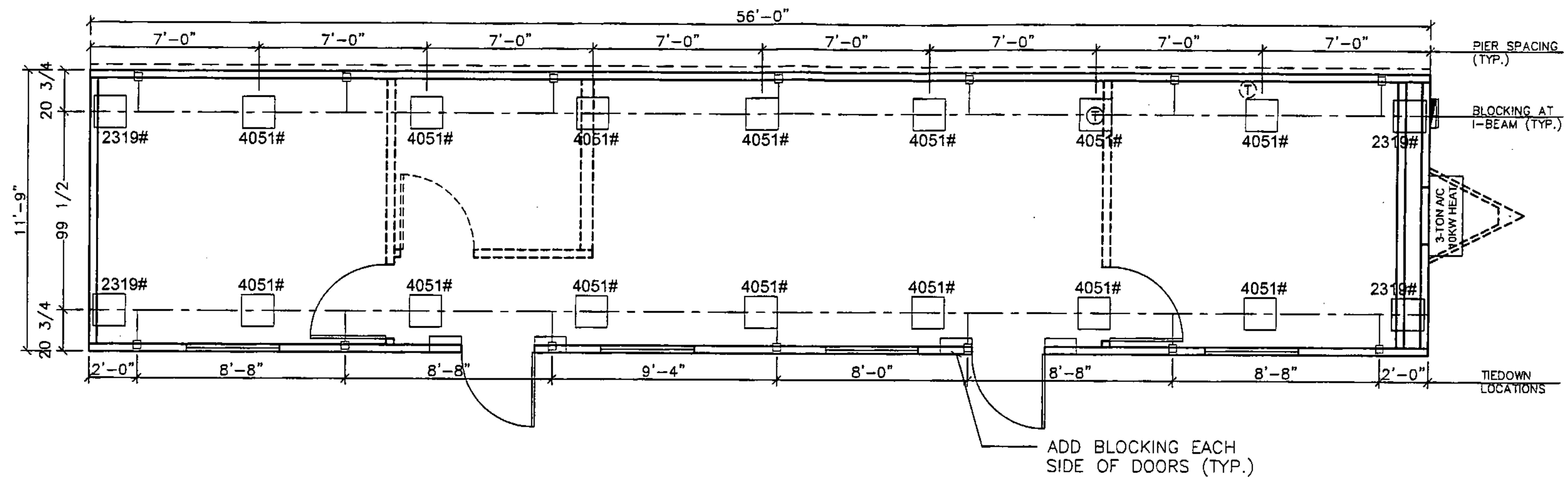
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2000 North Seventh Street
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832 EAST WALNUT
GARLAND, TX 75040

(972) 276-7626 FAX: (972) 276-5105
Email: engineering@amtexcorp.com

LTR	REVISION	BY	DATE	DRAWN BY:	PROJECT:	TITLE:	DWG. NO.	SHEET	
				M.L.S.	MOBILE MODULAR	PLUMBING - DRAIN/WATER	MM1260-2	P-1	
				DATE:	SCALE:				
				8/23/06	N.T.S.				



NOTES:

1. SOIL CAPACITY IS ASSUMED TO BE 2500 PSF.
2. PIER SPACING BASED ON ASSUMED PAD SIZE OF 16" X 16".
3. BLOCKS ADDED EACH SIDE OF EXT. DOORS (TYP.)

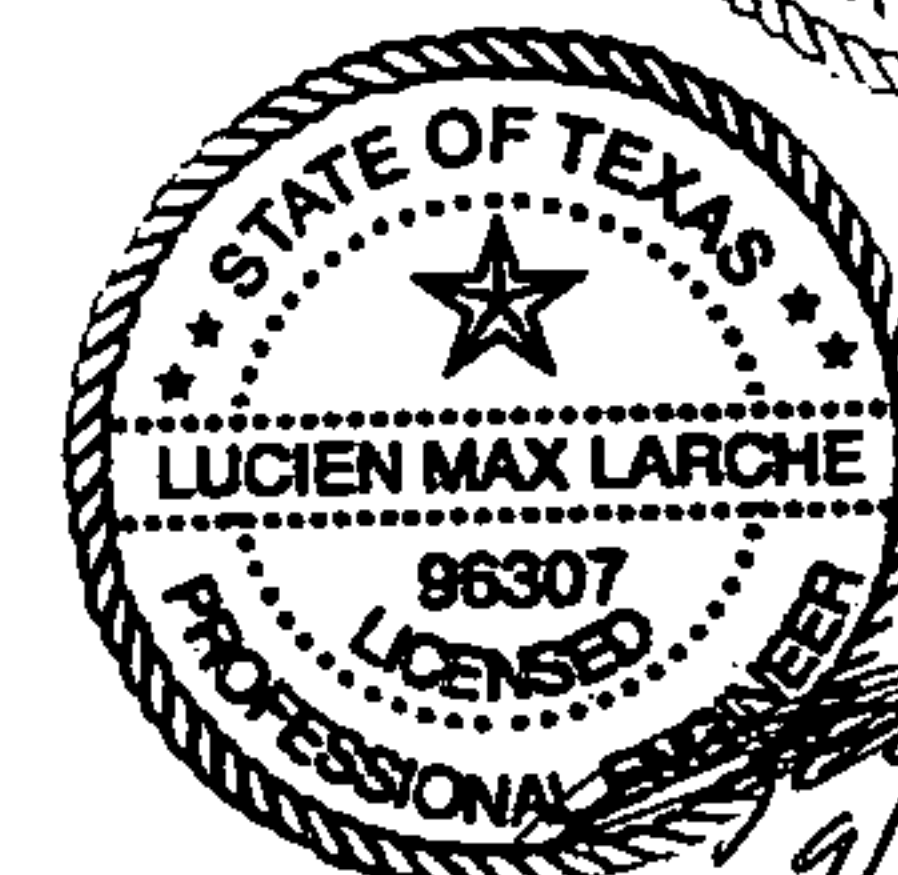
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GARLAND, TX 75040

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Email: engineering@amtexcorp.com

LTR	REVISION	BY	DATE	DRAWN BY:	PROJECT:	TITLE:	DWG. NO.	SHEET
				M.L.S.	MOBILE MODULAR	BLOCKING / TIE DOWN	MM1260-2	S-1
				DATE:	SCALE:			
				8/23/06	3/16"=1'-0"			

DESIGN CRITERIA:

PROJECT NAME: **MOBILE MODULAR - MM2468-20**
BUILDING SQ. FOOTAGE: 1504 SQ. FT.
2011 NEC
2012 IBC
2012 IMC
2013 LSPC
ASHRAE 90.1-2007
2010 ADAAG
2012 NFPA LS-101
USE GROUP: E
CONSTRUCTION TYPE: IBC: V-B
OCCUPANT LOAD: 71
PERMISSIBLE GAS TYPE: ☐LP ☐NATURAL ☒N/A

DESIGN LOADS:

ROOF LIVE LOAD: 20 PSF
FLOOR LIVE LOAD: 50 PSF
CONC. FLOOR LIVE LOAD: 1000 LBS
WIND LOAD: (170 MPH)
EXPOSURE: C
SEISMIC DESIGN CATEGORY B

SPECIAL CONDITIONS AND / OR LIMITATIONS:

- HANDICAP ACCESS & SIGNAGE TO BE PROVIDED AS REQUIRED BY OTHERS AS APPLICABLE.
- THE BUILDING IS TO BE LOCATED PER THE REQUIREMENTS OF TABLE 602 OF THE 2012 IBC
- ANY REQUIRED ALARM SYSTEM SHALL BE INSTALLED ON-SITE BY OTHERS.
- THE OWNER SHALL BE RESPONSIBLE TO INSTALL AN APPROVED AND LISTED COMPONENT IN ACCORDANCE WITH ASTM E1886 & E1996 FOR THE PROTECTION OF ALL GLAZED OPENINGS WHEN THIS STRUCTURE IS LOCATED IN A WIND BORNE DEBRIS REGION IN ACCORDANCE WITH IBC SECTION 1609.1.2 PRIOR TO FINAL INSPECTION AND OCCUPANCY.

FOUNDATION NOTES:

- FOUNDATION AND ANCHORING ARE SUBJECT TO ACCEPTANCE AND INSPECTION BY LOCAL AUTHORITY HAVING JURISDICTION.
- TIE-DOWN ANCHORING: SEE SHEET S-2
- CRAWL SPACE VENTILATION TO BE PROVIDED BY OTHERS ON-SITE PER 1203.3.1 OF THE 2012 IBC

SCOPE OF WORK

NOT INCLUDED IN THE SCOPE OF WORK
1. UTILITIES AND UTILITY CONNECTIONS
2. POURED CONCRETE (DRIVEWAY, SIDEWALK, SLABS, FOOTINGS, ETC).
3. SITE PREPARATION
4. TAX OF ANY KIND.
5. BUILDING PERMITS.
SITE WORK
1. OWNER IS TO EXAMINE THE SITE AND SHALL VERIFY ALL EXISTING CONDITIONS, NO PROVISION FOR SITE WORK HAS BEEN INCLUDED. IT IS PRESUMED THAT THE SITE WILL PROVIDE CLEAR ACCESS FOR TRUCKS AND MODULARS.
2. ALL ELECTRICAL, PLUMBING, SEWER & GAS SERVICE CONNECTIONS AND ALL CONCRETE WORK AT THE SITE, TO INCLUDE POURED PIERS, FOUNDATIONS, SLABS, SIDEWALKS, DRIVEWAYS OF WHATEVER KIND ARE THE RESPONSIBILITY OF THE OWNER.

IDENTIFICATION:

STATE DECAL: **LA. DECAL AND DATA PLATE PLACED IN PANEL BOX; OR PLACE ABOVE CEILING ON HITCH END (IF NO PANEL IS ON UNIT)**
DECAL: **MOBILE MODULAR (PLACED ON HVAC)**

FRAME / CHASSIS:

OUTRIGGERS: 96" O.C. W/ FRAME CLIPS @ 96" O.C.
CROSSMEMBERS: 48" O.C.
BEAM: 12" JR. I-BEAM (99-1/2" CENTERS)
HITCH: DETACHABLE HITCH
AXLES: QUAD - (2) BRAKE & (2) IDLER
TIRES: G (14-PLY)
FRAME: MEDIUM

FLOOR:

BOTTOM BOARD: ROLL, POLYETHYLENE FIBER MESH
INSULATION: R-22 UNFACED (FORMALDEHYDE FREE)
JOISTS: 2x6 No. 2 SYP OR BTR. AT 16" O.C.
SIDEBOARD JOISTS: DOUBLE 2x6 SYP No 2 OR EQUAL
OUTER MOST SIDEBAND IS PRESSURE TREATED

DECKING: 3/4" T&G, EDGE GOLD
FLOOR COVER: 1/8" TILE **#51858 - SAND DRIFT WHITE**
ALL TILE TO BE RAN THE SAME DIRECTION; NOT STAGGERED
COVE BASE: 4" VINYL **ST-038 - PEWTER**

EXTERIOR WALLS:

SIDEWALL HEIGHT: 8'-1-1/2" MIN.
STUDS: 2x4 No. 2 SYP OR BTR AT 16" O.C.
1x2 BELTRAIL @ 36" O.C. @ SIDEWALLS ONLY
BOTTOM PLATE: SNGL 2x4 SYP No. 2 OR BTR
TOP PLATE: DBL 2x4 SYP No. 2 OR BTR
HEADERS: DOUBLE 2x4 SYP WITH 1/2" PLYWOOD FILLER
FIRE BLOCKS: 2x MIN. AT CLG LINE AS REQ'D.
INSULATION: R-15 FACED (FORMALDEHYDE FREE)
SHEATHING: WEYERHAUSER OR EQUIV. (FULL PERIMETER) & 7/16" OSB @ ENDWALLS ONLY
SIDING: .0149 26GA R-PANEL **LIGHT STONE**
EXT TRIM: 26GA R-PANEL - BOTTOM, CORNERS, WINDOWS, & DOORS
LIGHT STONE
COCOA BROWN @ RAKE & EAVE TRIM
HOLD BOTTOM TRIM UP 1/2" FROM BOTTOM EDGE

SKIRTING: NONE

INTERIOR WALLS:

WALL HEIGHT: CENTER WALL ONLY TO BE FULL HEIGHT TO UNDERSIDE OF RAFTERS
STUDS: 2x4 SYP No. 2 OR BTR AT 16" O.C.
BOTTOM PLATE: SNGL 2x4 SYP No. 2 OR BTR
TOP PLATE: DBL 2x4 SYP No. 2 OR BTR
HEADERS: SINGLE 2x4 FLAT
FIRE BLOCKS: 2x MIN. AT CLG LINE AS REQ'D.
COVERING: 1/2" V.C.G. **HAMPTON GRAY (NO HOLD BACKS @ MATELINES)**

TRIM: STD. V.C.G. - 1" VC BATTENS
3" TRI-MOLD @ INSIDE & OUTSIDE CORNERS
1-1/2" VC BATT. @ TOP & WINDOW TRIM
INSTALL CEILING FLAT 1-1/2" TRIM @ PARTITIONS
FRP: N/A
INSULATION: R-11 UNFACED @ CENTER WALL ONLY

WINDOWS:

SIZE/TYPE 2:[04] 3/10 X 3/4 H.S. VINYL (CLAY)/E66 LOW E / DUAL INSULATED
BRAND: KRESTMARK

INSTALL W/ BUTYL TAPE & 1-5/8" ZINC DECK SCREWS
NO NAILS ARE PERMITTED FOR WINDOW INSTALLATION

DOORS:

EXTERIOR:[02] 36"x80" TELSTAR PRO W/ BRONZE ALUMINM. FRAME, 12x12 SAFETY PANE & OBSCURE FILM
COLOR: (BOTH SIDES) TIAGA BRONZE
EXTERIOR HARDWARE: **GRADE II 'TELL'**
[02] LC2795 INTERCONNECTING LEVER W/ DEADBOLT
[02] HYD. CLOSER **NORTON 1601-BFXAL**
[02] BOTTOM SWEEP
INSTALL W/ BUTYL TAPE & 1-5/8" ZINC DECK SCREWS
NO NAILS ARE PERMITTED FOR DOOR INSTALLATION

INTERIOR: N/A
INTERIOR HARDWARE: **N/A**

MISC: N/A

ROOF:

RAFTERS: 2x8 #2 SYP. OR BTR. @ 24" O.C.
RIM MBR: SNG. 2x8 SYP #2
RIDGE BEAM: 3 LAYER - 28" HEIGHT & 64' LENGTH
CEILING: 2'x4' VINYL TILE, LAYIN @ 7'-11" A.F.F.
ARMSTRONG #2910 RANDOM FISSURED TILE
ARMSTRONG PRELUDE XL WHITE GRID
(MAIN TEES TO RUN FULL LENGTH @ 48" O.C.)

INSULATION: R-38C UNFACED (FORMALDEHYDE FREE)
SHEATHING: (1) LAYER 15# FELT OR EQUIV. OVER 1/2" CDX PLYWOOD W/ H-CLIPS
ROOFING: .0130 29GA GALVALUME HI-RIB STEEL (144")
3" EAVE OVERHANG @ EAVE (2.75 IN 12 PITCH)
MISC: INSTALL PEAK BOX (144" PANEL LENGTH)
NOTE: 12" MODLINE ROOF-FLASHING (4" DOWN)
"CHRISTMAS FOLD" METAL @ ENDWALL ENDS
APPLY SILICONE @ RAKE TRIM TO ROOF TRANSITION

ELECTRICAL:

SERVICE: 120/240V SINGLE PHASE
LOAD CENTER: [01] 200 AMP, EXT. MOUNT LOAD CTR. W/ 150 AMP MAIN (NEMA-3R)
MODEL: CUTLER HAMMER: BR1224N200R W/ BW2150
ENTRANCE: ON-SITE BY OTHERS
WIRING: MC CABLE W/ #12 WIRE

LIGHTS: [12] 48" T-8 4 TUBE FLOURESCENT TROFFERS W/ DIFFUSED LENS
[02] PORCH LT. W/ PHOTO-CELL FLUORESCENT
[02] EMERGENCY/EXIT LIGHT W/ BATTERY BACKUP

FANS: N/A
RECEPTS: [14] STD. 120V DUPLEX RECEPTACLES
[01] W.P. EXT. GFCI 120V RECEPTACLE
SWITCHES: SEE SHEET E-1
ELECTRICAL DEVICES & COVER PLATES: IVORY
J-BOXES: [02] 4x4x2 EMPTY BOX W/ 3/4" EMT STUBBED UP ABOVE CEILING & DOWN, BELOW FLOOR
[08] 4x4x2 EMPTY BOX W/ 3/4" EMT STUBBED ABOVE CEILING (FUTURE FIRE ALARM)
[06] 2x4 WIRED J-BOXES
[03] 2x4x2 EXTERIOR NEMA 3R RECESSED J-BOX W/ WATER PROOF COVER
[01] 12x12x4 J-BOX MTD. ABOVE CEILING
MISC: [05] 8x8x4 BOXES TO RUN WIRE THROUGH
NOTE: THE GROUNDING ON-SITE IS TO BE IN ACCORDANCE WITH NEC 250-50.

PLUMBING:

NO PLUMBING

ACCESSIBLE RESTROOMS ARE AVAILABLE ON-SITE IN AN ADJACENT BUILDING (WITHIN 500 FEET) OR AS REQUIRED BY LOCAL OFFICIALS.

A SERVICE SINK SHALL BE AVAILABLE ON-SITE OR BE INSTALLED AS REQUIRED BY LOCAL OFFICIALS.

DRINKING FOUNTAIN SHALL BE AVAILABLE ON-SITE OR BE INSTALLED BY OTHER AS REQUIRED BY LOCAL OFFICIALS.

HVAC:


HVAC: [02] 3-TON WALL MTD. WITH 10 KW HEAT STRIP W/ COMMERCIAL ROOM VENTILATOR (CRV)
BARD MODEL #: W36A1-A10V - BEIGE
[02] 60A EXTERIOR DISCONNECT
THERMOSTAT [02] PROGRAMMABLE (ROBERT SHAW #RS5110)
DUCTS: FIBERGLASS (R-6 SUPPLY ONLY)
SUPPLY: 24"x24" ADJUSTABLE DAMPERS (SHOEMAKER 104 SERIES OR EQUAL, 4-WAY STAMPED, CURVED BLADE, W/ 12x12 FACE)
[08] 10" SCOOPS W/ COLLAR
RETURN-AIR: ABOVE PLENUM WALL W/ JUMP DUCTS & FLEX
NOTE: FRESH AIR VENTILATION IS PROVIDED THRU MANUAL AIR DAMPER IN THE HVAC SYSTEM.

FURNITURE OR MISC:

MISC: [02] 4'x4' CORK BOARDS
[04] 8'x4' MARKER BOARDS
[02] 5# WALL MOUNTED INDUSTRIAL SHELVES W/ 1YR. CERTIFICATION TAG (SHIPLOOSE)
ADDITIONAL SHIPLOOSE
[01] BOX OF BLACK 12" PEEL & SEAL

DRAWING INDEX:


COVER SHEET / SPECIFICATIONS A-1
ENERGY DESIGN INFORMATION A-1.1
FLOOR PLAN A-2
CROSS-SECTION A-3
EXTERIOR ELEVATION A-4
HVAC LAYOUT M-1
ELECTRICAL E-1
PANEL BOX & ELECTRICAL S-2
RIDGE BEAM S-3
BLOCKING & TIEDOWN PLAN S-4
HEAT LOSS CALCULATIONS S-5



REVIEWED BY
Date: 11/10/14
PFS CORPORATION
Cottage Grove, WI

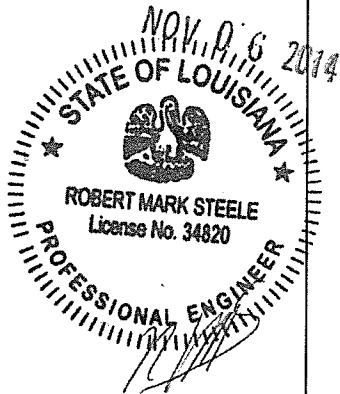
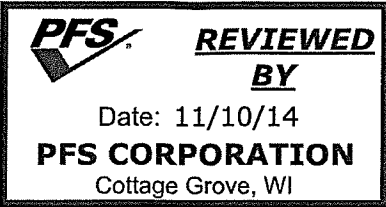
STATE OF LOUISIANA
PROFESSIONAL ENGINEER
ROBERT MARK STEELE
License No. 34820

SEE ATTACHED

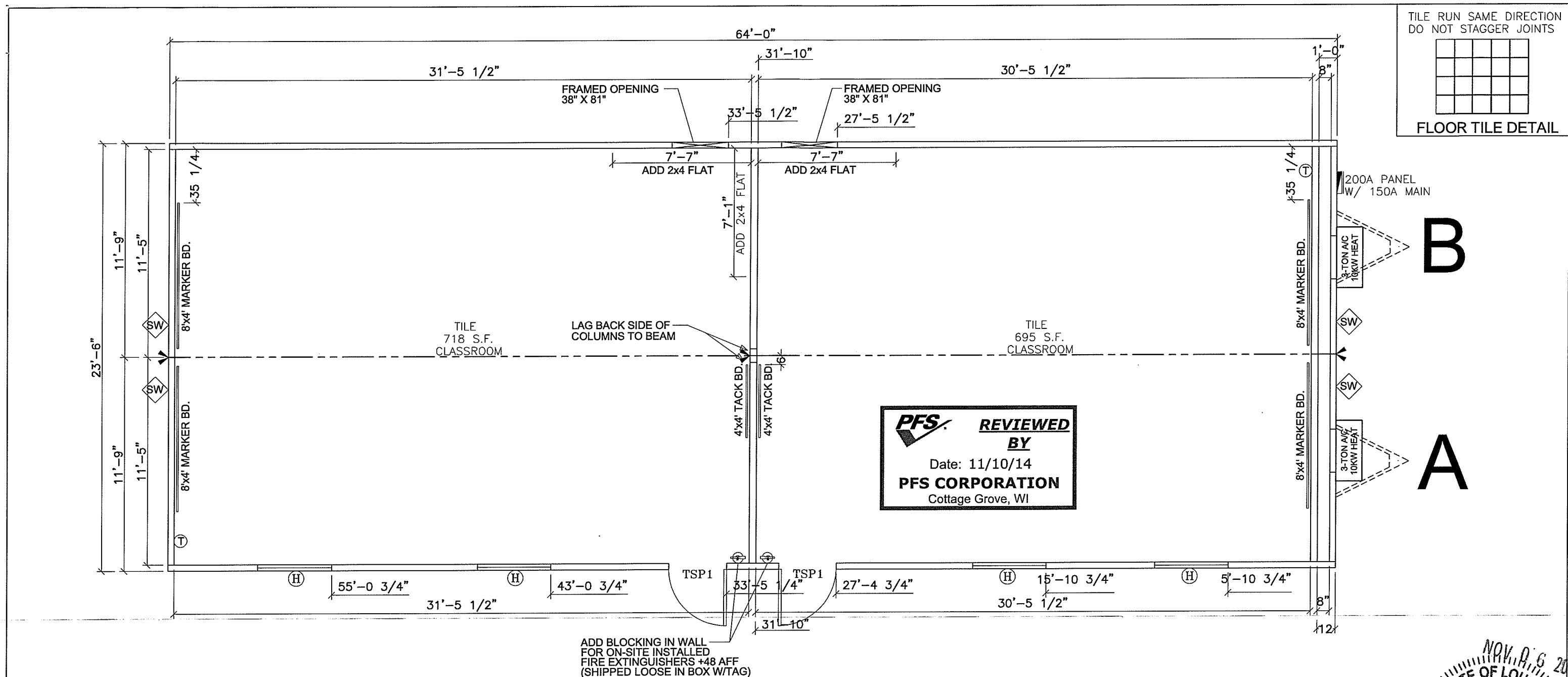
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LTR	REVISION	BY	DATE	DATE: 6/5/14		SCALE: N.T.S.		DWG. NO. MM2468-20		SHEET A-1	
										 832 EAST WALNUT GARLAND, TX 75040 P: 972.276.7626 / F: 972.526.0457	

ENERGY DESIGN INFORMATION:

CLIMATE ZONE: 3a window and glazed door area 10 percent or less
HDD [HEATING DEGREE DAYS]: 1810
R-VALUES TO COMPLY WITH TABLE: 502.2(1)
ACTUAL INSULATION R-VALUES IN BUILDING:
CEILING: ALL WOOD JOIST / TRUSS - R-38C
FLOOR: ALL WOOD JOIST / TRUSS - R-22
WALLS WOOD FRAME, ANY SPACING - R-15
WINDOW U-FACTOR: 0.34
WINDOW SHGC: 0.31
GLASS DOOR U-FACTOR: 0.00
GLASS DOOR SHGC: 0.00
SOLID DOOR U-FACTOR: 0.60
SWITCHING SCHEMES SHALL BE PER ELECTRICAL PLAN
LIGHT FIXTURES: 2'x2' U-TUBE T-8 W/ ELEC. BALLAST AT 32 WATTS
INPUT WATTAGE: 30 WATTS
2'x4' 4-TUBE T-8 W/ ELEC. BALLAST AT 122 WATTS
INPUT WATTAGE: 122 WATTS
PORCH LIGHT FLUORESCENT W/ ELEC. BALLAST AT 13 WATTS
EMERGENCY/EXIT LIGHT 18 WATT INCANDESCENT
EQUIPMENT EFFICIENCIES: HVAC MUST COMPLY WITH SECTION 503
AND TABLE 503.2.3(1) OF THE 2009 IECC [MIN. 9 EER].
WATER HEATING COMPONENTS SHALL BE PER SECTION 504 AND
TABLE 504.2 OF THE 2009 IECC TO BE CONSISTENT WITH THE
NATIONAL APPLIANCE ENERGY CONSERVATION ACT OF 1987.
SYSTEM CONTROLS: HEATING AND COOLING SYSTEMS SHALL
BE PROVIDED WITH PROGRAMMABLE THERMOSTAT PER
SECTION 503.2.4.1 OF THE 2009 IECC.
OUTDOOR AIR VENTILATION RATES SHALL COMPLY WITH
TABLE 403.3 OF THE 2012 IMC: 20 CFM PER PERSON
DUCT INSULATION SHALL COMPLY WITH SECTION 503.2.7 OF
THE 2009 IECC:
R-5 INSULATION WHEN LOCATED IN UNCONDITIONED SPACE
R-8 INSULATION WHEN LOCATED OUTSIDE BUILDING ENVELOPE
DUCT SEALING MUST COMPLY WITH SECTION 503.2.7 OF
THE 2009 IECC.



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LTR	REVISION	BY	DATE	DATE: 6/5/14		SCALE: N.T.S.		DWG. NO. MM2468-20		SHEET A-1.1	AMTEX 832 EAST WALNUT GARLAND, TX 75040 P: 972.276.7626 / F: 972.526.0457



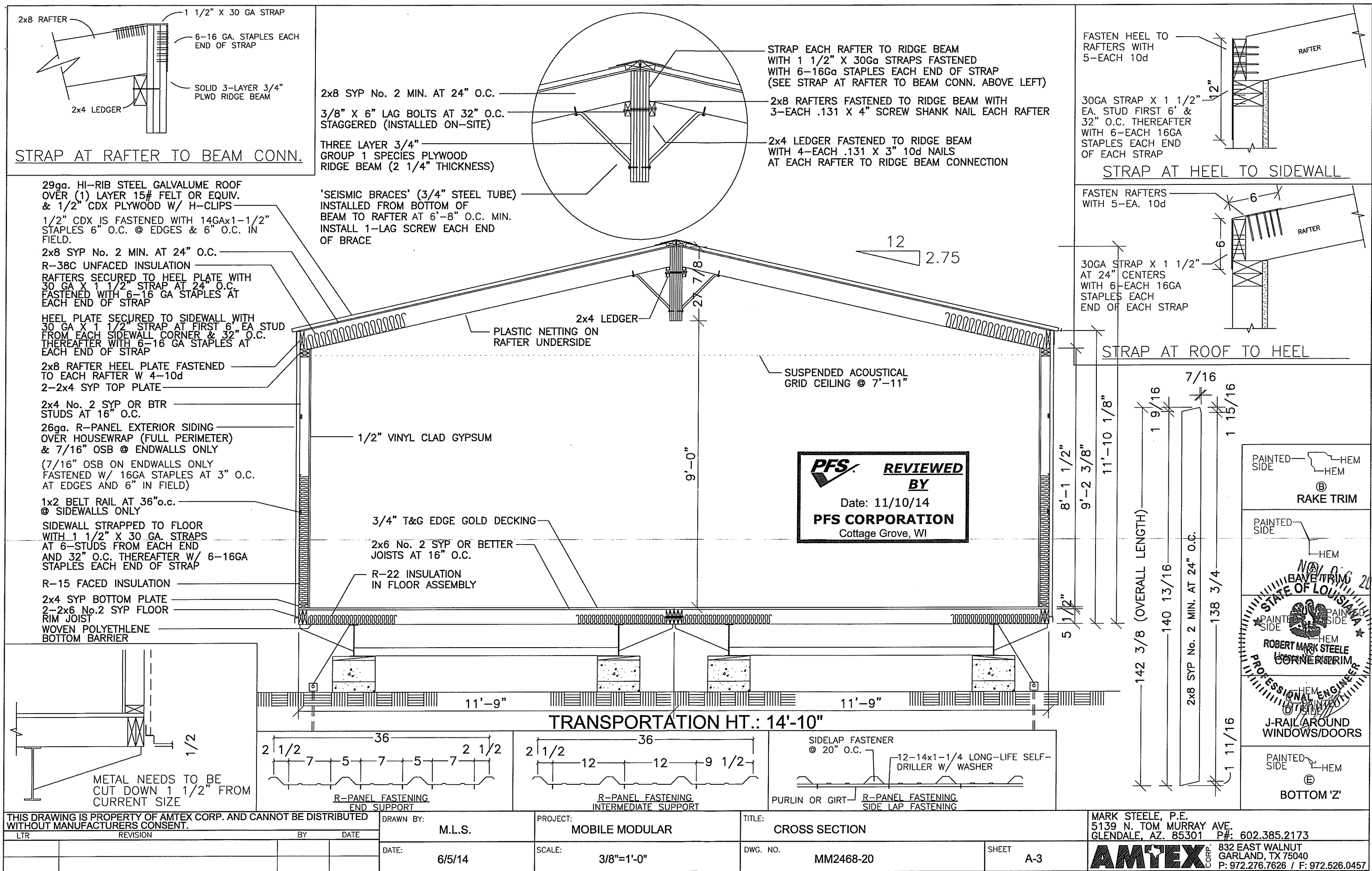
- NOTE:**
1. R-11 UNFACED INSULATION IN ALL CENTER WALL.
 2. INTERIOR CENTER WALL TO BE FULL HEIGHT.
 3. PLACE ALL MARKER BOARDS UP 34" A.F.F.
 4. PLACE ALL TACK BOARDS UP 34" A.F.F.

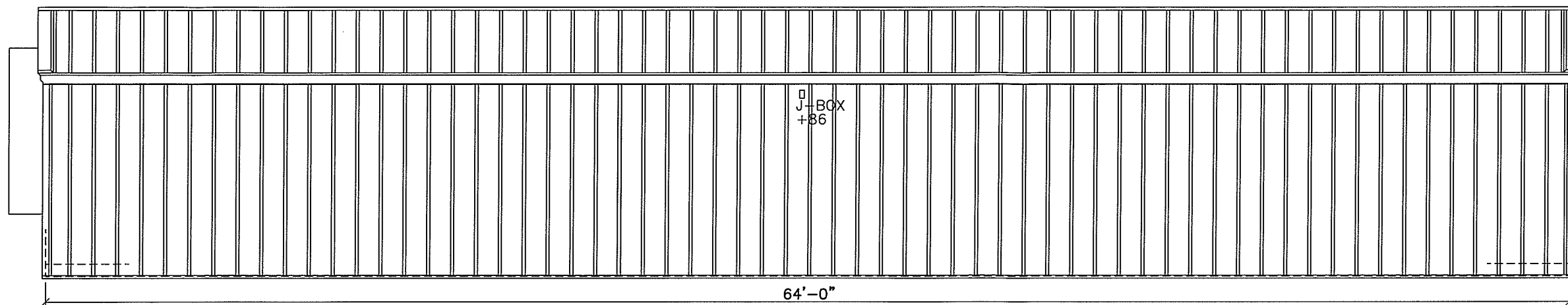
SCHEDULE \ LEGEND			
KEY	ITEM DESCRIPTION	SIZE	ROUGH OPENING
TSP1	36" X 80" TELSTAR PRO W/ 12X12 PANE	36X80	38" X 81"
H	3/10x3/4 KRESTMARK-H.S. VINYL/LOW E DUAL INSULATED W/ MINIBLINDS	3/10x3/4	46" X 40" UP 41" HEADER @ 81"
SW	= SHEARWALL		

➤ = MINIMUM 3-2x4 STUD SYP No. 2 COLUMNS WITH MIN. 3-18ga X 1-1/4" (SIMPSON CS-18) STRAPS FASTENED WITH MINIMUM 9-EACH #8 SCREWS EACH END OF EACH STRAP.

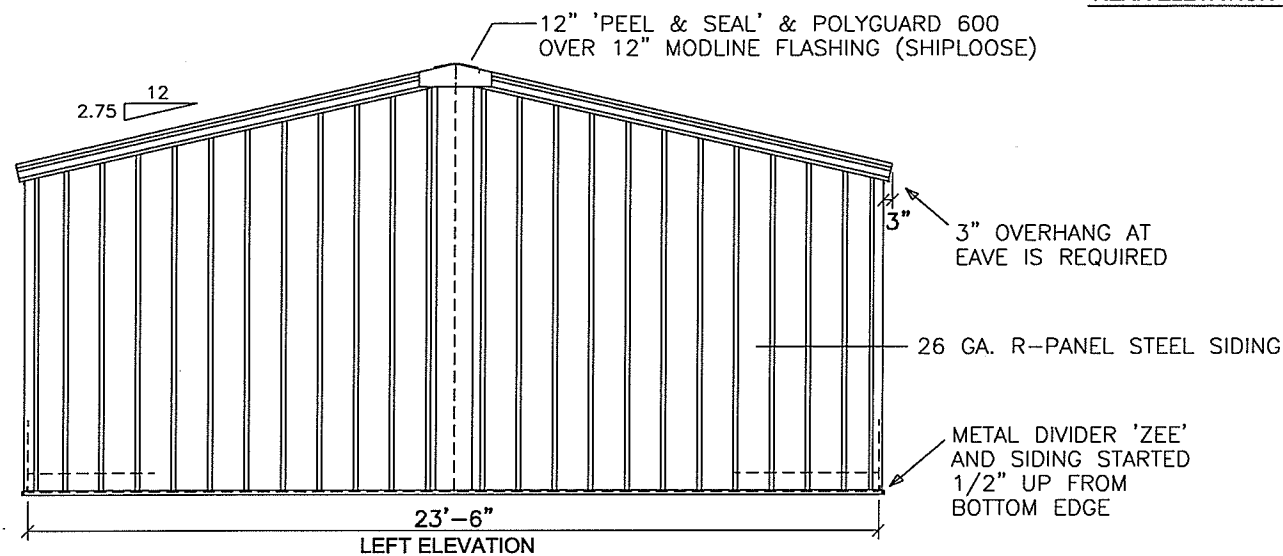
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LTR	REVISION	BY	DATE	DATE: 6/5/14		SCALE: 3/16"=1'-0"		DWG. NO. MM2468-20		SHEET A-2	
										AMTEX CORP. 832 EAST WALNUT GARLAND, TX 75040 P: 972.276.7626 / F: 972.526.0457	



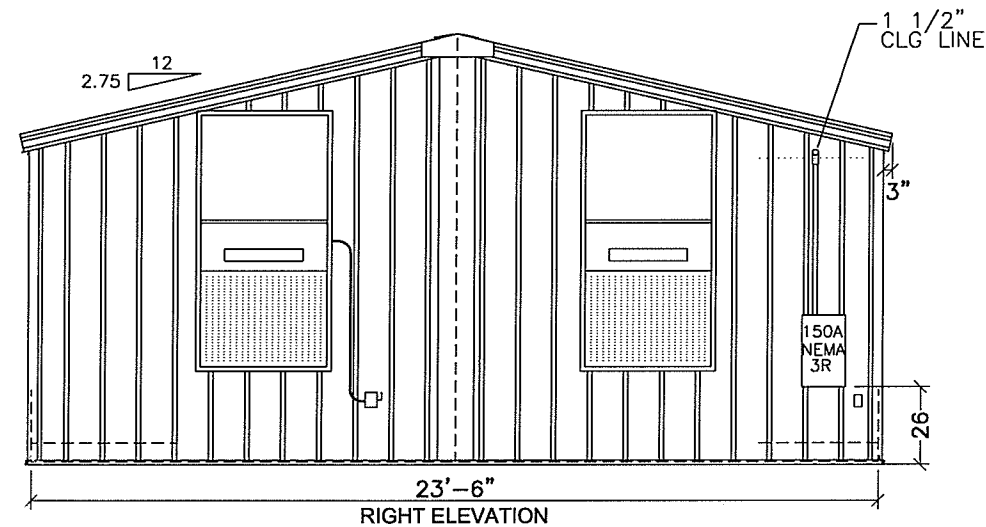




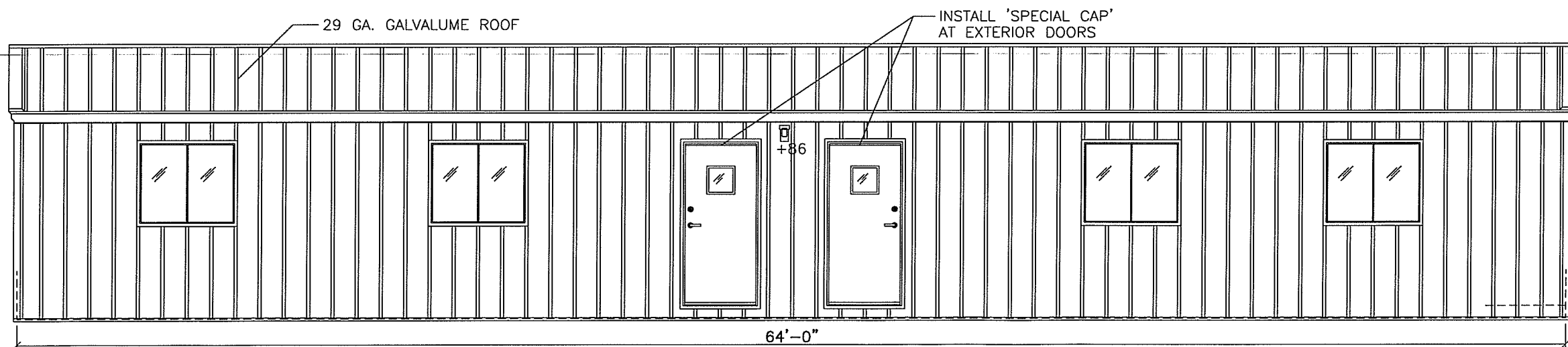
64'-0"
REAR ELEVATION



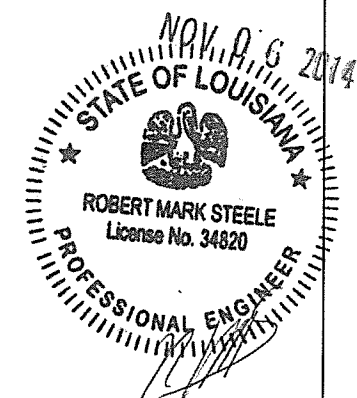
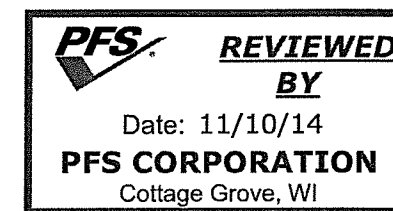
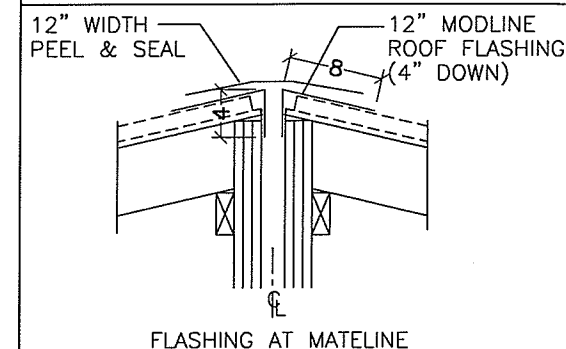
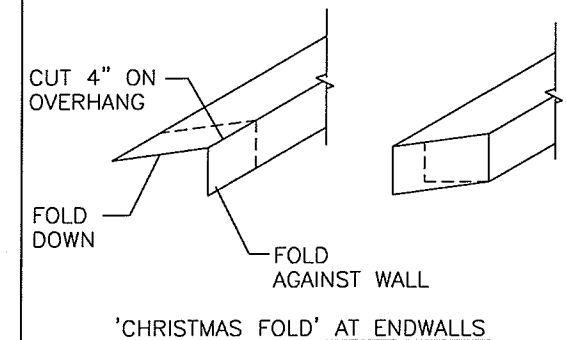
23'-6"
LEFT ELEVATION



23'-6"
RIGHT ELEVATION



64'-0"
FRONT ELEVATION



THIS DRAWING IS PROPERTY OF AMTEX CORP. AND CANNOT BE DISTRIBUTED WITHOUT MANUFACTURERS CONSENT.				DRAWN BY: M.L.S.		PROJECT: MOBILE MODULAR		TITLE: EXTERIOR ELEVATION		MARK STEELE, P.E. 5139 N. TOM MURRAY AVE. GLENDALE, AZ. 85301 P#: 602.385.2173	
LTR	REVISION	BY	DATE	DATE: 6/5/14		SCALE: 3/16"=1'-0"		DWG. NO. MM2468-20		SHEET A-4	
										AMTEX 832 EAST WALNUT GARLAND, TX 75040 P: 972.276.7626 / F: 972.526.0457	

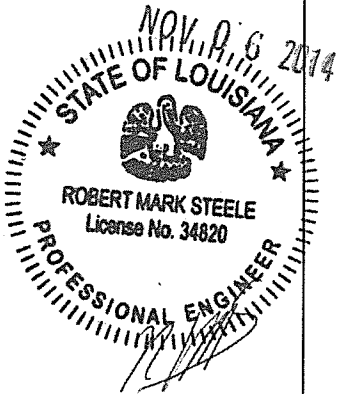
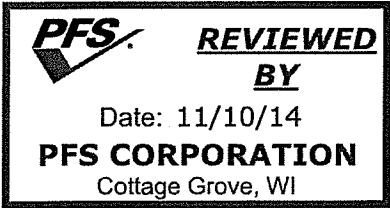
PANEL BOX LOAD CALCULATION

02 3-TON AC W/10KW (HEATING CONTROLS)	21248 WATTS
12 FOUR TUBE FLR. LIGHT AT 122 WATTS EACH X 125%	1830 WATTS
01 FLUORESCENT PORCH LIGHT AT 13 WATTS EACH X 125%	16 WATTS
01 120V WIRED J-BOX AT 13 WATTS X 125% (EXTERIOR)	16 WATTS
14 120v RECEPTACLES AT 180 WATTS EACH	2520 WATTS
01 W.P. EXT. GFCI 120v RECEP. AT 180 WATTS	180 WATTS
02 120v WIRED J-BOX AT 800 WATTS EACH	1600 WATTS
02 EMER/EXIT SIGN W/ BATT. BACKUP AT 18 WATTS X 125%	45 WATTS
02 EXTERIOR EMER. W/ BATT. BACKUP AT 13 WATTS X 125%	33 WATTS
02 120V WIRED J-BOX AT 18 WATTS EACH X 125% (ABOVE DOOR)	45 WATTS
02 120v WIRED J-BOX AT 156 WATTS EACH (R.R.'S)	312 WATTS
01 WIRED J-BOX AT 5500 WATTS (FUTURE W.H.)	5500 WATTS
TOTAL LOADS:	33345 WATTS

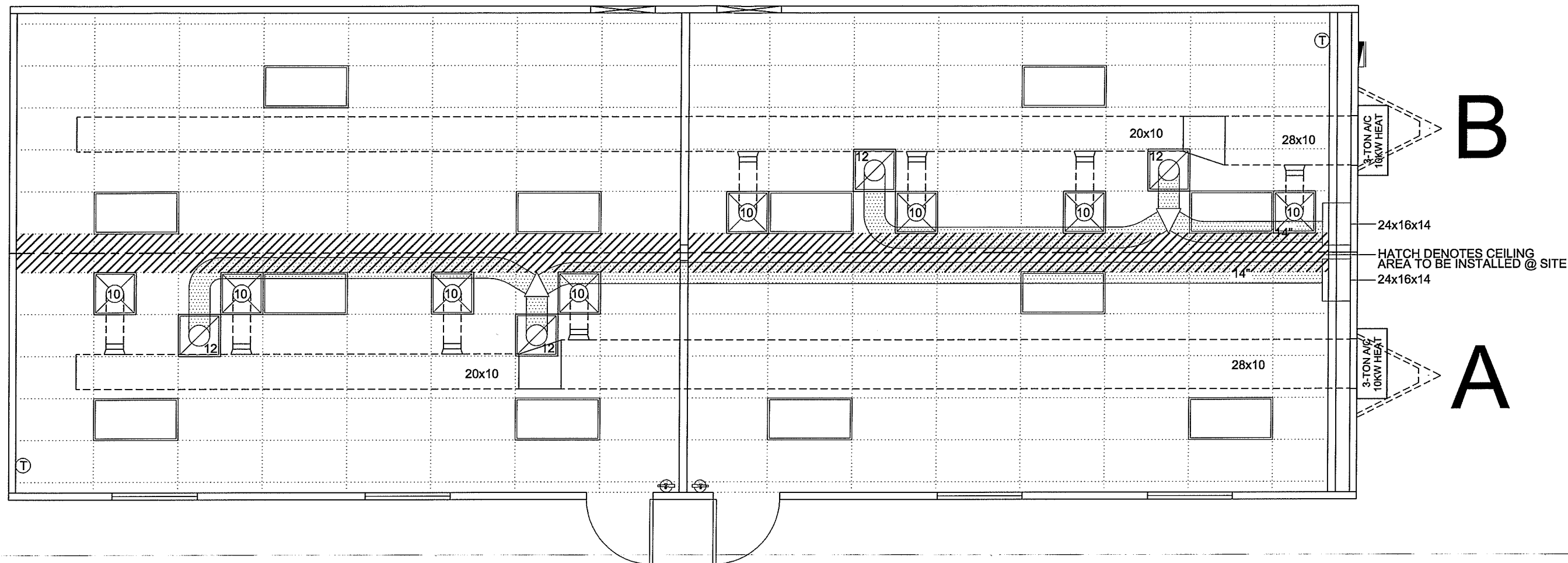
33345 WATTS÷240 = 139 AMPS

PANEL BOX 200 AMP
W/ 150A MAIN BREAKER
EXTERIOR NEMA-3R

GRND	WIRE	CIRCUIT	AMP		AMP		CIRCUIT	WIRE	GRND		
#10	#6	HVAC UNIT BUILDING A	60	1	2	60	HVAC UNIT BUILDING B	#6	#10		
			2P	3	4	2P					
#12	#12	LIGHTS	20	5	6	20	RECEPTACLES	#12	#12		
#12	#12	LIGHTS	20	7	8	20	RECEPTACLES	#12	#12		
#12	#12	RECEPTACLES	20	9	10	20	EXTERIOR RECEP.	#12	#12		
#12	#12	RECEPTACLES	20	11							
#12	#12	WIRED J-BOX	20	13	12	30	WIRED J-BOX	#10	#10		
#12	#12	WIRED J-BOX	20	15	14	2P					
GROUND BAR			— —							NEUTRAL	



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LTR	REVISION	BY	DATE						
				DATE: 6/5/14	SCALE: N.T.S.	DWG. NO. MM2468-20	SHEET E-1.1	AMTEX 832 EAST WALNUT GARLAND, TX 75040 P: 972.276.7626 / F: 972.526.0457	



SYMBOL LEGEND



24" X 24" DIFFUSER
(SHOEMAKER W/ 12x12 FACE)



JUMP DUCT



SCOOP W/ COLLAR

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LTR	REVISION	BY	DATE

DRAWN BY: M.L.S.

DATE: 6/5/14

PROJECT: MOBILE MODULAR

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

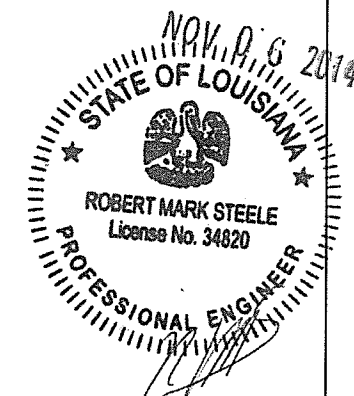
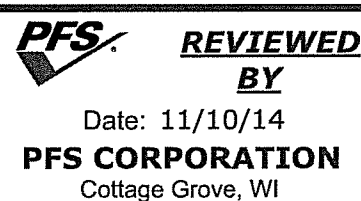
TITLE: CEILING & HVAC LAYOUT

DWG. NO. MM2468-20

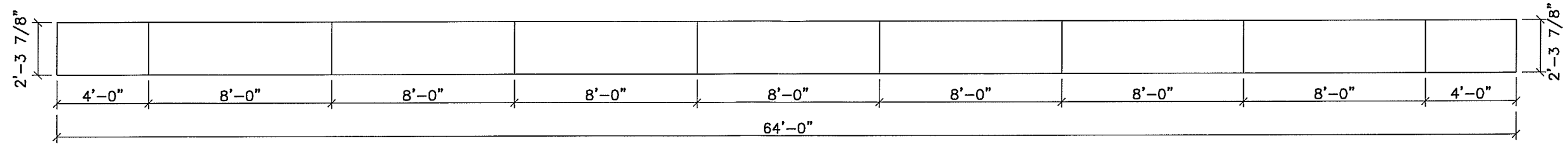
SHEET M-1

MARK STEELE, P.E.
5139 N. TOM MURRAY AVE.
GLENDALE, AZ. 85301 P#: 602.385.2173

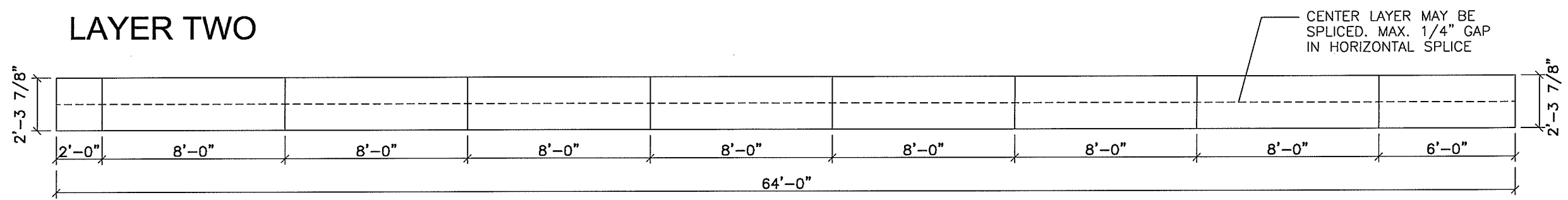
AMTEX CORP. 832 EAST WALNUT
GARLAND, TX 75040
P: 972.276.7626 / F: 972.526.0457



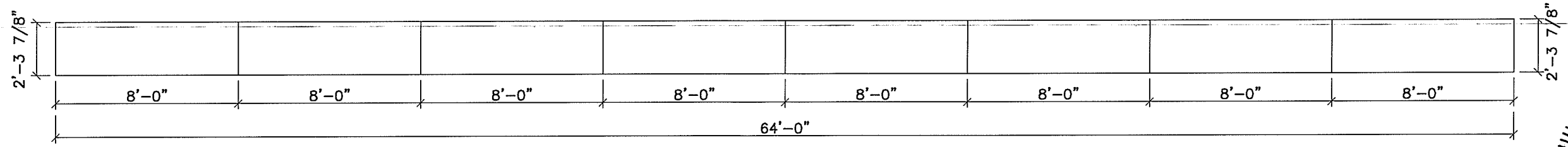
LAYER ONE



LAYER TWO



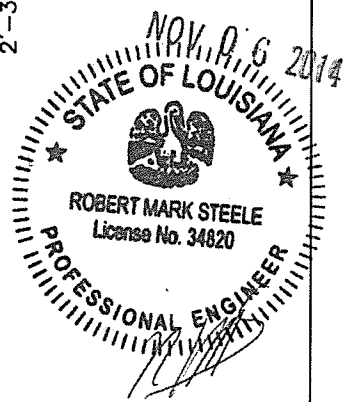
LAYER THREE



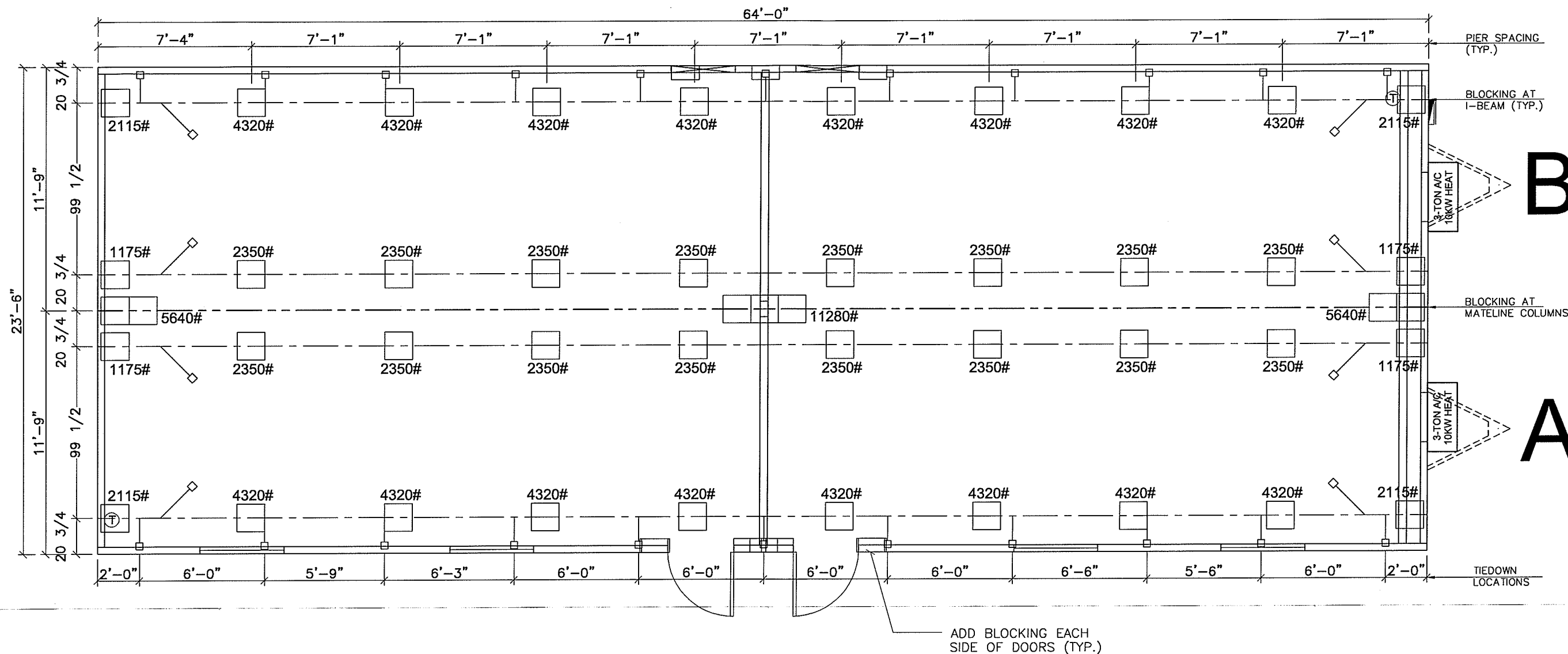
RIDGE BEAM NOTES:

- 1. RIDGE BEAM CONSTRUCTION IS THE SAME FOR BOTH SIDES OF UNIT (MIRRORED).
- 2. RIDGE BEAM IS CONSTRUCTED WITH 3/4" 5-PLY, 5-LAYER GROUP 1 SPECIES PLYWOOD.
- 3. RIDGE BEAM CONSTRUCTION SHALL BE IN ACCORDANCE WITH APA PLYWOOD DESIGN SPECIFICATION, SUPPLEMENT 5.

PFS **REVIEWED BY**
Date: 11/10/14
PFS CORPORATION
Cottage Grove, WI



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LTR	REVISION	BY	DATE						
				DATE: 6/5/14	SCALE: 3/16"=1'-0"	DWG. NO. MM2468-20	SHEET S-1	AMTEX CORP. 832 EAST WALNUT GARLAND, TX 75040 P: 972.276.7626 / F: 972.526.0457	



PFS **REVIEWED BY**
 Date: 11/10/14
PFS CORPORATION
 Cottage Grove, WI

NOV 10 2014
 STATE OF LOUISIANA
 ROBERT MARK STEELE
 License No. 34820
 PROFESSIONAL ENGINEER

- NOTES:
1. SOIL CAPACITY IS ASSUMED TO BE 2500 PSF (FIELD VERIFY).
 (IF SOIL LOAD IS 2000#, THEN SPACING CAN BE NO GREATER THAN 6'-0" O.C.)
 2. PIER SPACING BASED ON ASSUMED PAD SIZE OF 16" X 16".
 3. BLOCKS ADDED EACH SIDE OF EXT. DOORS (TYP.)

THIS DRAWING IS PROPERTY OF AMTEX CORP. AND CANNOT BE DISTRIBUTED WITHOUT MANUFACTURERS CONSENT.				DRAWN BY: M.L.S.		PROJECT: MOBILE MODULAR		TITLE: BLOCKING / TIE DOWN		MARK STEELE, P.E. 5139 N. TOM MURRAY AVE. GLENDALE, AZ. 85301 P#: 602.385.2173	
LTR	REVISION	BY	DATE	DATE: 6/5/14		SCALE: 3/16"=1'-0"		DWG. NO. MM2468-20		SHEET S-2	
										AMTEX CORP. 832 EAST WALNUT GARLAND, TX 75040 P: 972.276.7626 / F: 972.526.0457	

ELECTRICAL KEYNOTES:

- 1 CONTRACTOR SHALL CUT AND PATCH ASPHALT AS REQUIRED FOR PROPER INSTALLATION OF NEW POWER POLE.
- 2 ATTACH CONDUIT TO UNDERSIDE OF PORTABLE BUILDING FRAMING. (TYPICAL)
- 3 PROVIDE A WEATHERPROOF RECEPTACLE ON A FREE STANDING RACK INSIDE BACKFLOW PREVENTER ENCLOSURE. EXTEND #10 THHN, #10G, 3/4"C FROM BACKFLOW PREVENTER HEATER RECEPTACLE TO A NEW SINGLE 20 AMP CIRCUIT BREAKER IN PANEL "A". CUT AND PATCH ASPHALT AS NEEDED TO ACCOMMODATE CONDUIT INSTALLATION.
- 4 CONTRACTOR SHALL PROVIDE A 30 AMP, 240 VOLT, 4 WIRE CIRCUIT TO SERVE THE NEW LIFT STATION NOTED ON SHEET E101. INSTALL A 2POLE, 30 AMP CIRCUIT BREAKER IN ELECTRICAL PANEL "A". EXTEND 1/2" CONDUIT WITH #10 THHN COPPER CONDUCTORS, #10 GROUND FROM THE 2 POLE 30 AMP CIRCUIT BREAKER AND PANEL "A" TO THE LIFT STATION CONTROL PANEL. TERMINATE CONDUCTORS IN THE CONTROL PANEL PER MANUFACTURERS RECOMMENDATIONS. CUT AND PATCH ASPHALT AS NEEDED TO ACCOMMODATE CONDUIT INSTALLATION.
- 5 CONTRACTOR TO PROVIDE A CAREHAWK INTERCOM COMPLETE SYSTEM INCLUDING HEAD IN EQUIPMENT, HUBS, CALL SWITCHES, SPEAKERS, CABLING, ALL MISCELLANEOUS DEVICES, AND ALL COMPONENTS REQUIRED FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM. PROVIDE A SINGLE GANG SWITCHBOX WITH 3/4"C STUBBED UP FROM SWITCHBOX INTO CEILING ADJACENT TO DOOR FRAME FOR EACH CLASSROOM AND EACH OFFICE. SWITCHES SHALL BE MODEL #5 (TP-LINK TL-SG1218MPE WITH TL-SM311LSV4 INTERFACE MODULE) AT CLASSROOMS AND AT EACH OFFICE. ROUTE 1"C FROM INTERCOM CONTROL SYSTEM IN ADMIN POD UNDERNEATH WALKWAY FOR EACH SET OF PORTABLE BUILDINGS (3 SETS). COORDINATE ROUTING, LOCATION, AND TERMINATION REQUIREMENTS WITH EQUIPMENT PROVIDER PRIOR TO ROUGH IN.
- 6 PROVIDE AND INSTALL 4" VAPORTITE LED FIXTURE (LITHONIA: XVML-L48-3500LM-MVOLT-40K-80CRI). CONNECT TO CIRCUIT #8 ON PANEL "A" USING #12 THHN, #12 GROUND, 1/2"C. CONTROL VIA PHOTOCELL & TIMECLOCK CONNECTED TO PANEL "A".
- 7 INSTALL MINI INVERTER FOR EMERGENCY BACKUP IN ADMIN POD. INVERTER SHALL BE PURE WAVE PW-12-LC-V1 OR APPROVED EQUIVALENT. CONNECT TO CIRCUIT #10 ON PANEL "A" USING #12 THHN, #12 GROUND, 1/2"C.
- 8 PROVIDE AND INSTALL 4" VAPORTITE LED FIXTURE (LITHONIA: XVML-L48-3500LM-MVOLT-40K-80CRI). CONTROL VIA PHOTOCELL & TIMECLOCK CONNECTED TO PANEL "A". CONNECT LIGHT FIXTURE TO MINI INVERTER LOCATED IN ADMIN POD.
- 9 SEE SHEET E301 FOR RISER DIAGRAMS. CONDUITS SHALL BE RUN FROM MAIN PANEL BELOW RAISED DECK TO TERMINATION POINT AT RESPECTIVE PORTABLE BUILDING. CONTRACTOR SHALL COORDINATE TERMINATION REQUIREMENTS WITH PORTABLE BUILDING MANUFACTURER PRIOR TO ROUGH IN.
- 10 EXTEND #12 THHN, #12G, 1/2"C FROM FIRE ALARM CONTROL PANEL TO A NEW 20 AMP CIRCUIT BREAKER IN PANEL "A1". CIRCUIT BREAKER SHALL BE RED AND BE PROVIDED WITH A BREAKER LOCK IN THE "ON" POSITION.
- 11 INSTALL TWO 2" CONDUITS WITH PULL STRINGS FROM SERVICE RACK TO DATA/COM RACK IN ADMIN BUILDING.
- 12 COORDINATE LOCATION OF DATA/COM RACK WITH OWNER PRIOR TO ROUGH IN. PROVIDE GROUND BAR PER DETAIL ON SHEET E3.0. CONNECT GROUND BAR TO MAIN SERVICE GROUND.
- 13 EXTEND ONE 2" CONDUIT BELOW THE ELEVATED WALKWAY FROM THE I.T. RACK IN THE ADMIN BUILDING TO EACH SET OF BUILDINGS. FROM THE I.T. RACK AT EACH BUILDING. (TYPICAL)
- 14 ELECTRICAL CONTRACTOR TO COORDINATE WITH ENTERGY REGARDING POSSIBLE NEED TO ADD A NONUSED DISCONNECT AHEAD OF THE METER. PROVIDE AS DIRECTED BY ENTERGY.
- 15 INSTALL AN OUTLET IN EACH BUILDING TO PROVIDE POWER TO NETWORK SWITCH. CONNECT TO NEAREST AVAILABLE PANEL USING #12 THHN, #12 GROUND, 1/2"C.
- 16 EXTEND 1-1"C FROM FACP IN ADMIN BUILDING TO EACH SET OF PORTABLE BUILDINGS. ROUTE CONDUIT UNDERNEATH WALKWAYS. COORDINATE TERMINATION REQUIREMENTS FOR FIRE ALARM CIRCUITRY WITH EACH BUILDING PRIOR TO ROUGH IN.
- 17 INSTALL AN OUTLET IN CEILING AT EACH CLASSROOM FOR THE CEILING MOUNTED PROJECTOR. CONNECT TO NEAREST AVAILABLE PANEL USING #12 THHN, #12 GROUND, 1/2"C. GENERAL CONTRACTOR TO PROVIDE DROP DOWN FRAMING ABOVE CEILING TO MOUNT ONE OVERHEAD PROJECTOR AT EACH CLASSROOM. (20 CLASSROOMS TOTAL).
- 18 DATA CONTRACTOR SHALL PROVIDE ALL FIBER AND RG5/6 CABLES AND APPROPRIATE HARDWARE TO RUN, MOUNT AND CONNECT 8 DATA DROPS IN EACH CLASSROOM AND ASSOCIATED SWITCH, WIRELESS ACCESS POINTS, AND 16 DATA DROPS AT EACH OFFICE. DATA CONTRACTOR SHALL COORDINATE WITH OWNER FOR FINAL DATA DROP LOCATIONS WITHIN EACH TRAILER. SUBMIT DRAWING FOR APPROVAL.
- 19 OWNER TO PROVIDE PROJECTORS AND MOUNTING HARDWARE.
- 20 IT IS CURRENTLY THE INTENTION THAT ALL DATA CABLING AND FIBER WILL BE RUN UNDERNEATH THE ELEVATED WALKWAY BETWEEN BUILDINGS WHERE POSSIBLE. NO CONDUIT REQUIRED. CABLING SHALL BE RATED FOR EXTERIOR AND WET APPLICATIONS.
- 21 INSTALL A WEATHERPROOF RECEPTACLE INSIDE THE FRAME OF WATER COOLER. EXTEND #12 THHN, #12G, 1/2"C FROM EACH OF THE WATER COOLERS TO A NEW 20 AMP GFI CIRCUIT BREAKER IN NEAREST PORTABLE BUILDING PANEL.
- 22 FOR ALL POWER, LIGHTING, AND SPECIAL SYSTEMS, REMOVE AND DISPOSE OF ASPHALT FOR CONDUIT ROUTING IN LOCATIONS THAT ARE NOT CONNECTED BY ELEVATED WALKWAYS. BACK FILL TRENCHES AND PATCH ASPHALT TO MATCH ADJACENT ASPHALT. (TYPICAL)
- 23 INSTALL FOUR 2" CONDUITS FROM THE DATA/COM POINT OF CONNECTION TO SYSTEM HEAD END EQUIPMENT IN THE ADMINISTRATION BUILDING.
- 24 CUT AND PATCH ASPHALT AS NEEDED TO ACCOMMODATE INSTALLATION OF UNDERGROUND SUBFEED CONDUITS TO INDIVIDUAL BUILDING PANELS.
- 25 EXTEND 1-1"C FROM SECURITY CONTROL PANEL IN ADMIN BUILDING TO EACH SET OF PORTABLE BUILDINGS. ROUTE CONDUIT UNDERNEATH WALKWAYS. TERMINATE AT SECURITY MODULES IN EACH PORTABLE BUILDING. COORDINATE TERMINATION REQUIREMENTS AND LOCATIONS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.



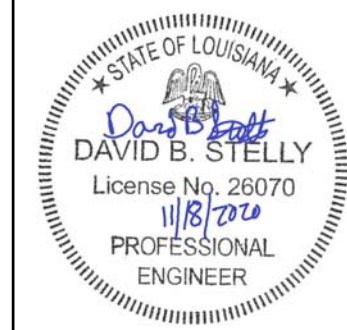
ASSOCIATED DESIGN GROUP, INC.
3909 W Congress Street, Suite 201
Lafayette, Louisiana 70506
Phone: (337) 234-5710
Email: adginc@adginc.org

Project No. 20258



Construction Documents

No.	Description	Date



St. Margaret of Scotland
Catholic - Temp Facilities

ELECTRICAL SITE
PLAN

Copyright 2020 ACSW

ASW Project number	20042
Date	11-19-2020
Drawn by	MP
Checked by	DS/PM

E101

Scale As indicated

ENTERPRISE BLVD

DROP OFF

18TH STREET

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

PANEL **A (NEW)**

VOLTAGE ☐ 120/208V, 1Ø, 3W
☒ 120/240V, 1Ø, 3W

ENCLOSURE ☐ NEMA 1 (TOOL-LESS DOOR-IN-DOOR CONSTRUCTION)
☐ NEMA 3R
☐ NEMA 4X 320 STAINLESS STEEL
☐ LOCKABLE COVER

FEED ☐ TOP
☐ BOTTOM

BRANCHES ☐ BOLT-ON, PANELBOARD CONSTR.
☐ FUSIBLE SWITCHES, FURNISH ALL FUSES, RK5
☐ PLUG-ON, LOADCENTER CONSTR.

NEUTRAL ☒ 100% ☐ 200%

MOUNTING ☐ SURFACE ☐ RECESSED
☐ FREE STANDING (FRONT ACCESS ONLY)
☐ FREE STANDING (FRONT AND REAR ACCESS)

AIC RATING 35,000

ALL COPPER BUSSING

CKT. #	TRIP AMPS	WIRE	GND	COND.	LOAD DESCRIPTION	NOTES	A	B	NOTES	LOAD DESCRIPTION	COND.	GND	WIRE	TRIP AMPS	CKT. #
1	200	3/0	6	2-1/2"	PANEL A1	--			--	PANEL A2	2-1/2"	6	3/0	200	2
3															
5	-	-	-	-	SEWER TREATMENT	--			--	BACKFLOW PREV.	3/4"	12	12	20	4
7										LIGHTS	1/2"	12	12	20	6
9										MINI INVERTER	1/2"	12	12	20	10
11														12	
13														14	
15														16	
17														18	
19														20	
21														22	
23														24	
25														26	
27														28	
29														30	

NOTES:

TOTAL LOAD² = 60.4 KVA
TOTAL AMPS² = 251 AMPS

PANEL **B (NEW)**

VOLTAGE ☐ 120/208V, 1Ø, 3W
☒ 120/240V, 1Ø, 3W

ENCLOSURE ☐ NEMA 1 (TOOL-LESS DOOR-IN-DOOR CONSTRUCTION)
☐ NEMA 3R
☐ NEMA 4X 320 STAINLESS STEEL
☐ LOCKABLE COVER

FEED ☐ TOP
☐ BOTTOM

BRANCHES ☐ BOLT-ON, PANELBOARD CONSTR.
☐ FUSIBLE SWITCHES, FURNISH ALL FUSES, RK5
☐ PLUG-ON, LOADCENTER CONSTR.

NEUTRAL ☒ 100% ☐ 200%

MOUNTING ☐ SURFACE ☐ RECESSED
☐ FREE STANDING (FRONT ACCESS ONLY)
☐ FREE STANDING (FRONT AND REAR ACCESS)

AIC RATING 35,000

ALL COPPER BUSSING

CKT. #	TRIP AMPS	WIRE	GND	COND.	LOAD DESCRIPTION	NOTES	A	B	NOTES	LOAD DESCRIPTION	COND.	GND	WIRE	TRIP AMPS	CKT. #
1	125	1/0	6	2"	PANEL B1	--			--	PANEL B8	2"	6	1/0	125	2
3															
5	125	1/0	6	2"	PANEL B2	--			--	PANEL B9	2"	6	1/0	125	4
7															
9	125	1/0	6	2"	PANEL B3	--			--	PANEL B10	2"	6	1/0	125	10
11														12	
13	125	1/0	6	2"	PANEL B4	--			--	PANEL B11	2"	6	1/0	125	14
15														16	
17	125	1/0	6	2"	PANEL B5	--			--	PANEL B12	2"	6	1/0	125	18
19														20	
21	125	1/0	6	2"	PANEL B6	--			--	PANEL B13	2"	6	1/0	125	22
23														24	
25	125	1/0	6	2"	PANEL B7	--			--					26	
27														28	
29														30	

NOTES:

TOTAL LOAD² = 276.6 KVA
TOTAL AMPS² = 1153 AMPS

PANEL **C (NEW)**

VOLTAGE ☐ 120/208V, 1Ø, 3W
☒ 120/240V, 1Ø, 3W

ENCLOSURE ☐ NEMA 1 (TOOL-LESS DOOR-IN-DOOR CONSTRUCTION)
☐ NEMA 3R
☐ NEMA 4X 320 STAINLESS STEEL
☐ LOCKABLE COVER

FEED ☐ TOP
☐ BOTTOM

BRANCHES ☐ BOLT-ON, PANELBOARD CONSTR.
☐ FUSIBLE SWITCHES, FURNISH ALL FUSES, RK5
☐ PLUG-ON, LOADCENTER CONSTR.

NEUTRAL ☒ 100% ☐ 200%

MOUNTING ☐ SURFACE ☐ RECESSED
☐ FREE STANDING (FRONT ACCESS ONLY)
☐ FREE STANDING (FRONT AND REAR ACCESS)

AIC RATING 35,000

ALL COPPER BUSSING

CKT. #	TRIP AMPS	WIRE	GND	COND.	LOAD DESCRIPTION	NOTES	A	B	NOTES	LOAD DESCRIPTION	COND.	GND	WIRE	TRIP AMPS	CKT. #
1	20	12	12	1/2	PANEL C1	--			--	PANEL C6	1/2	12	12	20	2
3															
5	20	12	12	1/2	PANEL C2	--			--	PANEL C7	1/2	12	12	20	4
7															
9	20	12	12	1/2	PANEL C3	--			--	PANEL C8	1/2	12	12	20	10
11														12	
13	20	12	12	1/2	PANEL C4	--			--	PANEL C9	1/2	12	12	20	14
15														16	
17	20	12	12	1/2	PANEL C5	--			--					18	
19														20	
21														22	
23														24	
25														26	
27														28	
29														30	

NOTES:

TOTAL LOAD² = 192 KVA
TOTAL AMPS² = 800 AMPS

PANEL **B1 (EXISTING PANEL ON MODULAR BUILDING)**

VOLTAGE ☐ 120/208V, 1Ø, 3W
☒ 120/240V, 1Ø, 3W

ENCLOSURE ☐ NEMA 1 (TOOL-LESS DOOR-IN-DOOR CONSTRUCTION)
☐ NEMA 3R
☐ NEMA 4X 320 STAINLESS STEEL
☐ LOCKABLE COVER

FEED ☐ TOP
☐ BOTTOM

BRANCHES ☐ BOLT-ON, PANELBOARD CONSTR.
☐ FUSIBLE SWITCHES, FURNISH ALL FUSES, RK5
☐ PLUG-ON, LOADCENTER CONSTR.

NEUTRAL ☒ 100% ☐ 200%

MOUNTING ☐ SURFACE ☐ RECESSED
☐ FREE STANDING (FRONT ACCESS ONLY)
☐ FREE STANDING (FRONT AND REAR ACCESS)

AIC RATING AIC

ALL COPPER BUSSING

CKT. #	TRIP AMPS	WIRE	GND	COND.	LOAD DESCRIPTION	NOTES	A	B	NOTES	LOAD DESCRIPTION	COND.	GND	WIRE	TRIP AMPS	CKT. #
1	20	12	12	1/2"	LIGHTS	--			--	HVAC UNIT	1"	10	6	60	2
3	20	12	12	1/2"	RECEPTACLES	--			--	JBOX ABOVE T-GRID	1/2"	12	12	20	4
5	20	12	12	1/2"	RECEPTACLES	--			--	JBOX ABOVE T-GRID	1/2"	12	12	20	6
7	20	12	12	1/2"	JBOX ABOVE T-GRID	--			--	JBOX ABOVE T-GRID	1/2"	12	12	20	8
9														10	
11														12	
13														14	
15														16	
17														18	

NOTES:

TOTAL LOAD = 21.2 KVA
TOTAL AMPS = 88 AMPS

PANEL **B2 (EXISTING PANEL ON MODULAR BUILDING)**

VOLTAGE ☐ 120/208V, 1Ø, 3W
☒ 120/240V, 1Ø, 3W

ENCLOSURE ☐ NEMA 1 (TOOL-LESS DOOR-IN-DOOR CONSTRUCTION)
☐ NEMA 3R
☐ NEMA 4X 320 STAINLESS STEEL
☐ LOCKABLE COVER

FEED ☐ TOP
☐ BOTTOM

BRANCHES ☐ BOLT-ON, PANELBOARD CONSTR.
☐ FUSIBLE SWITCHES, FURNISH ALL FUSES, RK5
☐ PLUG-ON, LOADCENTER CONSTR.

NEUTRAL ☒ 100% ☐ 200%

MOUNTING ☐ SURFACE ☐ RECESSED
☐ FREE STANDING (FRONT ACCESS ONLY)
☐ FREE STANDING (FRONT AND REAR ACCESS)

AIC RATING AIC

ALL COPPER BUSSING

CKT. #	TRIP AMPS	WIRE	GND	COND.	LOAD DESCRIPTION	NOTES	A	B	NOTES	LOAD DESCRIPTION	COND.	GND	WIRE	TRIP AMPS	CKT. #
1	20	12	12	1/2"	LIGHTS	--			--	HVAC UNIT	1"	10	6	60	2
3	20	12	12	1/2"	RECEPTACLES	--			--	JBOX ABOVE T-GRID	1/2"	12	12	20	4
5	20	12	12	1/2"	RECEPTACLES	--			--	JBOX ABOVE T-GRID	1/2"	12	12	20	6
7	20	12	12	1/2"	JBOX ABOVE T-GRID	--			--	JBOX ABOVE T-GRID	1/2"	12	12	20	8
9														10	
11														12	
13														14	
15														16	
17														18	

NOTES:

TOTAL LOAD = 21.2 KVA
TOTAL AMPS = 88 AMPS

PANEL **B3 (EXISTING PANEL ON MODULAR BUILDING)**

VOLTAGE ☐ 120/208V, 1Ø, 3W
☒ 120/240V, 1Ø, 3W

ENCLOSURE ☐ NEMA 1 (TOOL-LESS DOOR-IN-DOOR CONSTRUCTION)
☐ NEMA 3R
☐ NEMA 4X 320 STAINLESS STEEL
☐ LOCKABLE COVER

FEED ☐ TOP
☒ BOTTOM

BRANCHES ☐ BOLT-ON, PANELBOARD CONSTR.
☐ FUSIBLE SWITCHES, FURNISH ALL FUSES, RK5
☐ PLUG-ON, LOADCENTER CONSTR.

NEUTRAL ☒ 100% ☐ 200%

MOUNTING ☐ SURFACE ☐ RECESSED
☐ FREE STANDING (FRONT ACCESS ONLY)
☐ FREE STANDING (FRONT AND REAR ACCESS)

AIC RATING AIC

ALL COPPER BUSSING

CKT. #	TRIP AMPS	WIRE	GND	COND.	LOAD DESCRIPTION	NOTES	A	B	NOTES	LOAD DESCRIPTION	COND.	GND	WIRE	TRIP AMPS	CKT. #
1	20	12	12	1/2"	LIGHTS	--			--	HVAC UNIT	1"	10	6	60	2
3	20	12	12	1/2"	RECEPTACLES	--			--	JBOX ABOVE T-GRID	1/2"	12	12	20	4
5	20	12	12	1/2"	RECEPTACLES	--			--	JBOX ABOVE T-GRID	1/2"	12	12	20	6
7	20	12	12	1/2"	JBOX ABOVE T-GRID	--			--	JBOX ABOVE T-GRID	1/2"	12	12	20	8
9														10	
11														12	
13														14	
15														16	
17														18	

NOTES:

TOTAL LOAD = 21.2 KVA
TOTAL AMPS = 88 AMPS

PANEL **B4 (EXISTING PANEL ON MODULAR BUILDING)**

VOLTAGE ☐ 120/208V, 1Ø, 3W
☒ 120/240V, 1Ø, 3W

ENCLOSURE ☐ NEMA 1 (TOOL-LESS DOOR-IN-DOOR CONSTRUCTION)
☐ NEMA 3R
☐ NEMA 4X 320 STAINLESS STEEL
☐ LOCKABLE COVER

FEED ☐ TOP
☐ BOTTOM

BRANCHES ☐ BOLT-ON, PANELBOARD CONSTR.
☐ FUSIBLE SWITCHES, FURNISH ALL FUSES, RK5
☐ PLUG-ON, LOADCENTER CONSTR.

NEUTRAL ☒ 100% ☐ 200%

MOUNTING ☐ SURFACE ☐ RECESSED
☐ FREE STANDING (FRONT ACCESS ONLY)
☐ FREE STANDING (FRONT AND REAR ACCESS)

AIC RATING AIC

ALL COPPER BUSSING

CKT. #	TRIP AMPS	WIRE	GND	COND.	LOAD DESCRIPTION	NOTES	A	B	NOTES	LOAD DESCRIPTION	COND.	GND	WIRE	TRIP AMPS	CKT. #
1	20	12	12	1/2"	LIGHTS	--			--	HVAC UNIT	1"	10	6	60	2
3	20	12	12	1/2"	RECEPTACLES	--			--	JBOX ABOVE T-GRID	1/2"	12	12	20	4
5	20	12	12	1/2"	RECEPTACLES	--			--	JBOX ABOVE T-GRID	1/2"	12	12	20	6
7	20	12	12	1/2"	JBOX ABOVE T-GRID	--			--	JBOX ABOVE T-GRID	1/2"	12	12	20	8
9														10	
11														12	
13														14	
15														16	
17														18	

NOTES:

TOTAL LOAD = 21.2 KVA
TOTAL AMPS = 88 AMPS

PANEL **B5 (EXISTING PANEL ON MODULAR BUILDING)**

VOLTAGE ☐ 120/208V, 1Ø, 3W
☒ 120/240V, 1Ø, 3W

ENCLOSURE ☐ NEMA 1 (TOOL-LESS DOOR-IN-DOOR CONSTRUCTION)
☐ NEMA 3R
☐ NEMA 4X 320 STAINLESS STEEL
☐ LOCKABLE COVER

FEED ☐ TOP
☐ BOTTOM

BRANCHES ☐ BOLT-ON, PANELBOARD CONSTR.
☐ FUSIBLE SWITCHES, FURNISH ALL FUSES, RK5
☐ PLUG-ON, LOADCENTER CONSTR.

NEUTRAL ☒ 100% ☐ 200%

MOUNTING ☐ SURFACE ☐ RECESSED
☐ FREE STANDING (FRONT ACCESS ONLY)
☐ FREE STANDING (FRONT AND REAR ACCESS)

AIC RATING AIC

ALL COPPER BUSSING

CKT. #	TRIP AMPS	WIRE	GND	COND.	LOAD DESCRIPTION	NOTES	A	B	NOTES	LOAD DESCRIPTION	COND.	GND	WIRE	TRIP AMPS	CKT. #
1	20	12	12	1/2"	LIGHTS	--			--	HVAC UNIT	1"	10	6	60	2
3	20	12	12	1/2"	RECEPTACLES	--			--	JBOX ABOVE T-GRID	1/2"	12	12	20	4
5	20	12	12	1/2"	RECEPTACLES	--			--	JBOX ABOVE T-GRID	1/2"	12	12	20	6
7	20	12	12	1/2"	JBOX ABOVE T-GRID	--			--	JBOX ABOVE T-GRID	1/2"	12	12	20	8
9														10	
11														12	
13														14	
15														16	
17														18	

NOTES:

TOTAL LOAD = 21.2 KVA
TOTAL AMPS = 88 AMPS

PANEL **B6 (EXISTING PANEL ON MODULAR BUILDING)**

VOLTAGE ☐ 120/

PANEL

B9

(EXISTING PANEL ON MODULAR BUILDING)

VOLTAGE

☐ 120/208V, 1Ø, 3W
 ☐ 120/240V, 1Ø, 3W

125 AMP

☐ FACTORY MAIN CIRCUIT BREAKER
 ☐ SHUNT TRIP MAIN CB
 ☐ MAIN LUGS ONLY
 ☐ UL LISTED FEED-THRU LUGS

NEUTRAL

☐ 100%
 ☐ 200%

MOUNTING

☐ SURFACE
 ☐ RECESSED
 ☐ FREE STANDING (FRONT ACCESS ONLY)
 ☐ FREE STANDING (FRONT AND REAR ACCESS)

ENCLOSURE

☐ NEMA 1 (TOOL-LESS DOOR-IN-DOOR CONSTRUCTION)
 ☐ NEMA 3R
 ☐ NEMA 4X 320 STAINLESS STEEL
 ☐ LOCKABLE COVER

FEED

☐ TOP
 ☐ BOTTOM

BRANCHES

☐ BOLT-ON, PANELBOARD CONSTR.
 ☐ FUSIBLE SWITCHES, FURNISH ALL FUSES, RK5
 ☐ PLUG-ON, LOADCENTER CONSTR.

AIC RATING

AIC

☐ FULLY RATED
 ☐ SERIES RATED

☐ FURNISH GROUND BAR KIT
 ☐ FURNISH ADDITIONAL ISOLATED GROUND BAR KIT
 ☐ SERVICE ENTRANCE LABEL

ALL COPPER BUSSING

CKT. #	TRIP AMPS	WIRE	GND	COND.	LOAD DESCRIPTION	NOTES	A B		NOTES	LOAD DESCRIPTION	COND.	GND	WIRE	TRIP AMPS	CKT. #
1	20	12	12	1/2"	LIGHTS	--			--	HVAC UNIT	1"	10	6	60	2
3	20	12	12	1/2"	RECEPTACLES	--			--	JBOX ABOVE T-GRID	1/2"	12	12	20	4
5	20	12	12	1/2"	RECEPTACLES	--			--	JBOX ABOVE T-GRID	1/2"	12	12	20	6
7	20	12	12	1/2"	JBOX ABOVE T-GRID	--			--	JBOX ABOVE T-GRID	1/2"	12	12	20	8
9															10
11															12
13															14
15															16
17															18

NOTES:

TOTAL LOAD= 21.2 KVA

TOTAL AMPS= 88 AMPS

PANEL B12 (EXISTING PANEL ON MODULAR BUILDING)

VOLTAGE ☐ 120/208V, 1Ø, 3W
☒ 120/240V, 1Ø, 3W

125 AMP ☐ FACTORY MAIN CIRCUIT BREAKER
☐ SHUNT TRIP MAIN CB
☐ MAIN LUGS ONLY
☐ UL LISTED FEED-THRU LUGS

NEUTRAL ☒ 100% ☐ 200%

MOUNTING ☒ SURFACE ☐ RECESSED
☐ FREE STANDING (FRONT ACCESS ONLY)
☐ FREE STANDING (FRONT AND REAR ACCESS)

ENCLOSURE ☐ NEMA 1 (TOOL-LESS DOOR-IN-DOOR CONSTRUCTION)
☐ NEMA 3R
☐ NEMA 4X 320 STAINLESS STEEL
☐ LOCKABLE COVER

FEED ☐ TOP
☐ BOTTOM

BRANCHES ☐ BOLT-ON; PANELBOARD CONSTR.
☐ FUSIBLE SWITCHES, FURNISH ALL FUSES, RK5
☐ PLUG-ON, LOADCENTER CONSTR.

AIC RATING AIC

☐ FULLY RATED
☐ SERIES RATED

☐ FURNISH GROUND BAR KIT
☐ FURNISH ADDITIONAL ISOLATED GROUND BAR KIT
☐ SERVICE ENTRANCE LABEL

ALL COPPER BUSSING

CKT. #	TRIP AMPS	WIRE	GND	COND.	LOAD DESCRIPTION	NOTES	A	B	NOTES	LOAD DESCRIPTION	COND.	GND	WIRE	TRIP AMPS	CKT. #
1	20	12	12	1/2"	LIGHTS	--			--	HVAC UNIT	1"	10	6	60	2
3	20	12	12	1/2"	RECEPTACLES	--			--	JBOX ABOVE T-GRID	1/2"	12	12	20	6
5	20	12	12	1/2"	RECEPTACLES	--			--	JBOX ABOVE T-GRID	1/2"	12	12	20	6
7	20	12	12	1/2"	JBOX ABOVE T-GRID	--			--	JBOX ABOVE T-GRID	1/2"	12	12	20	8
9															
11															12
13															14
15															16
17															18

NOTES:

TOTAL LOAD = 21.2 KVA

TOTAL AMPS = 88 AMPS

PANEL

C2 (EXISTING PANEL ON MODULAR BUILDING)

VOLTAGE

☐ 120/208V, 1Ø, 3W
☒ 120/240V, 1Ø, 3W

125 AMP

☐ FACTORY MAIN CIRCUIT BREAKER
☐ SHUNT TRIP MAIN CB
☐ MAIN LUGS ONLY
☐ UL LISTED FEED-THRU LUGS

NEUTRAL

☒ 100%
☐ 200%

MOUNTING

☒ SURFACE
☐ RECESSED
☐ FREE STANDING (FRONT ACCESS ONLY)
☐ FREE STANDING (FRONT AND REAR ACCESS)

ENCLOSURE

☐ NEMA 1 (TOOL-LESS DOOR-IN-DOOR CONSTRUCTION)
☐ NEMA 3R
☐ NEMA 4X 320 STAINLESS STEEL
☐ LOCKABLE COVER

FEED

☐ TOP
☐ BOTTOM

BRANCHES

☐ BOLT-ON, PANELBOARD CONSTR.
☐ FUSIBLE SWITCHES, FURNISH ALL FUSES, RK5
☐ PLUG-ON, LOADCENTER CONSTR.

AIC RATING

☐ FULLY RATED
☐ SERIES RATED

FURNISH

☐ GROUND BAR KIT
☐ ADDITIONAL ISOLATED GROUND BAR KIT
☐ SERVICE ENTRANCE LABEL

ALL COPPER BUSSING

CKT. #	TRIP AMPS	WIRE	GND	COND.	LOAD DESCRIPTION	NOTES	A B		NOTES	LOAD DESCRIPTION	COND.	GND	WIRE	TRIP AMPS	CKT. #
1	20	12	12	12	1/2" LIGHTS	--			--	HVAC UNIT	1"	10	6	60	2
3	20	12	12	12	1/2" RECEPTACLES	--			--						4
5	20	12	12	12	1/2" RECEPTACLES	--			--	JBOX ABOVE T-GRID	1/2"	12	12	20	6
7	20	12	12	12	1/2" JBOX ABOVE T-GRID	--			--	JBOX ABOVE T-GRID	1/2"	12	12	20	8
9															10
11															12
13															14
15															16
17															18

NOTES:

TOTAL LOAD²⁵

21.2

KVA

TOTAL AMPS²⁵

88

AMPS





PANEL C9 (EXISTING PANEL ON MODULAR BUILDING)										A/C RATING _____ A/C						
VOLTAGE <input type="checkbox"/> 120/208V, 1Ø, 3W <input checked="" type="checkbox"/> 120/240V, 1Ø, 3W					ENCLOSURE <input type="checkbox"/> NEMA 1 (TOOL-LESS DOOR-IN-DOOR CONSTRUCTION) <input checked="" type="checkbox"/> NEMA 3R <input type="checkbox"/> NEMA 4X 320 STAINLESS STEEL <input type="checkbox"/> LOCKABLE COVER					<input type="checkbox"/> FULLY RATED <input checked="" type="checkbox"/> SERIES RATED						
125 AMP <input checked="" type="checkbox"/> FACTORY MAIN CIRCUIT BREAKER <input type="checkbox"/> SHUNT TRIP MAIN CB <input type="checkbox"/> MAIN LUGS ONLY <input type="checkbox"/> UL LISTED FUSE-THRU LUGS					FEED <input type="checkbox"/> TOP <input checked="" type="checkbox"/> BOTTOM					<input checked="" type="checkbox"/> FURNISH GROUND BAR KIT <input type="checkbox"/> FURNISH ADDITIONAL <input type="checkbox"/> ISOLATED GROUND BAR KIT <input type="checkbox"/> SERVICE ENTRANCE LABEL						
NEUTRAL <input checked="" type="checkbox"/> 100% <input type="checkbox"/> 200%					BRANCHES <input type="checkbox"/> BOLT-ON, PANELBOARD CONSTR. <input type="checkbox"/> FUSIBLE SWITCHES, FURNISH ALL FUSES, RK5 <input type="checkbox"/> PLUG-ON, LOADCENTER CONSTR.											
MOUNTING <input type="checkbox"/> SURFACE <input type="checkbox"/> RECESSED <input type="checkbox"/> FREE STANDING (FRONT ACCESS ONLY) <input type="checkbox"/> FREE STANDING (FRONT AND REAR ACCESS)					ALL COPPER BUSSING											
CKT. #	TRIP AMPS	WIRE	GND	COND.	LOAD DESCRIPTION	NOTES	A B		NOTES	COND.	GND	WIRE	TRIP AMPS	CKT. #		
1	20	12	12	12"	LIGHTS	--			--	HVAC UNIT	1"	10	6	20	2	
3	20	12	12	12"	RECEPTACLES	--			--						4	
5	20	12	12	12"	RECEPTACLES	--			--	JBOX ABOVE T-GRID	1/2"	12	12	20	6	
7	20	12	12	12"	JBOX ABOVE T-GRID	--			--	JBOX ABOVE T-GRID	1/2"	12	12	20	8	
9															10	
11															12	
13															14	
15															16	
17															18	
NOTES:															TOTAL LOAD ^W = <u>21.2</u> KVA TOTAL AMPS ^W = <u>88</u> AMPS	

PANEL

A1

(EXISTING PANEL ON MODULAR BUILDING)

VOLTAGE

☐

120/208V, 1Ø, 3W

☐

220/240V, 1Ø, 3W

200 AMP

☐

FACTORY MAIN CIRCUIT BREAKER

☐

SHUNT TRIP MAIN CB

☐

MAIN LUGS ONLY

☐

UL LISTED FEED-THRU LUGS

NEUTRAL

☐

100%

☐

200%

MOUNTING

☐

SURFACE

☐

RECESSED

☐

FREE STANDING (FRONT ACCESS ONLY)

☐

FREE STANDING (FRONT AND REAR ACCESS)

ENCLOSURE

☐

NEMA 1 (TOOLLESS DOOR-IN-DOOR CONSTRUCTION)

☐

NEMA 3R

☐

NEMA 4X 320 STAINLESS STEEL

☐

LOCKABLE COVER

FEED

☐

TOP

☐

BOTTOM

BRANCHES

☐

BOLT-ON, PANELBOARD CONSTR.

☐

FUSIBLE SWITCHES, FURNISH ALL FUSES, RK5

☐

PLUG-ON, LOADCENTER CONSTR.

AIC RATING

☐

FULLY RATED

☐

SERIES RATED

☐

FURNISH GROUND BAR KIT

☐

ISOLATED GROUND BAR KIT

☐

SERVICE ENTRANCE LABEL

ALL COPPER BUSSING

CKT. #	TRIP AMPS	WIRE	GND	COND.	LOAD DESCRIPTION	NOTES	A	B	NOTES	LOAD DESCRIPTION	COND.	GND	WIRE	TRIP AMPS	CKT. #
1	60	6	10	1"	HVAC UNIT A	—			—	HVAC UNIT B	1"	10	6	60	2
3						—			—	RECEPTACLES	1/2"	12	12	20	4
5	20	12	12	1/2"	LIGHTS	—			—	RECEPTACLES	1/2"	12	12	20	8
7	20	12	12	1/2"	LIGHTS	—			—	RECEPTACLES	1/2"	12	12	20	10
9	20	12	12	1/2"	RECEPTACLES	—			—	EXTERIOR RECP.	1/2"	12	12	20	8
11	20	12	12	1/2"	RECEPTACLES	—			—	JBOX	3/4"	10	10	30	12
13	20	12	12	1/2"	JBOX	—			—	FACP	1/2"	12	12	20	14
15	20	12	12	1/2"	JBOX	—			—						16
17						—			—						18

NOTES:

TOTAL LOAD=

33.3

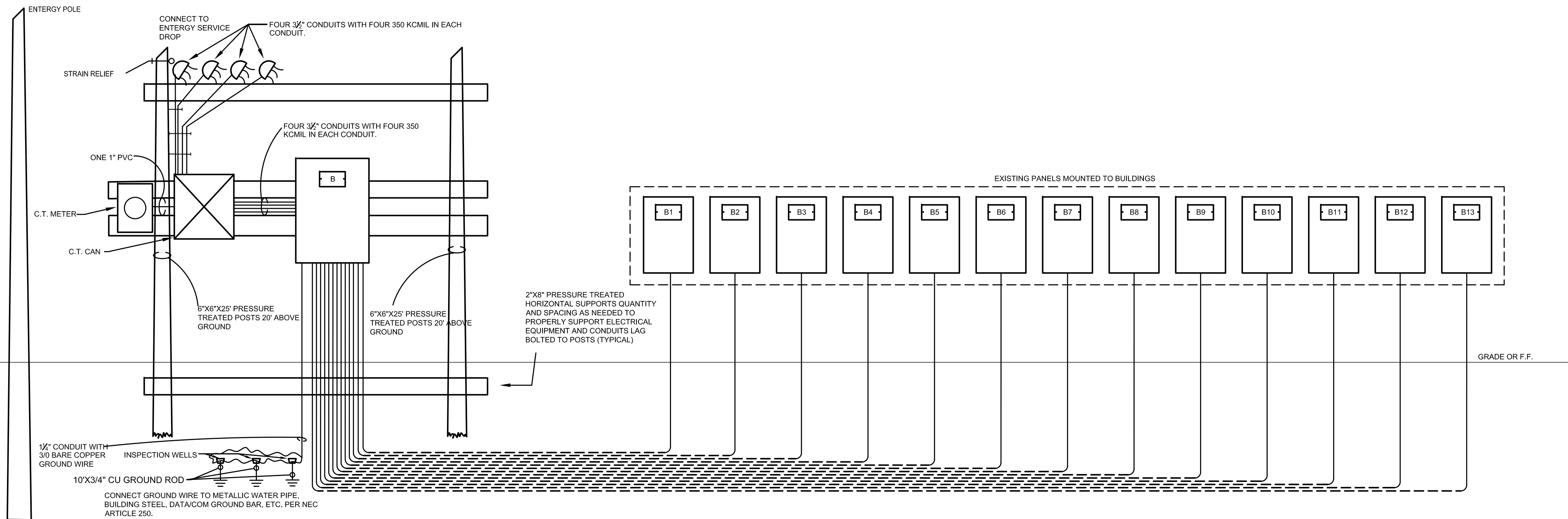
KVA

TOTAL AMPS=

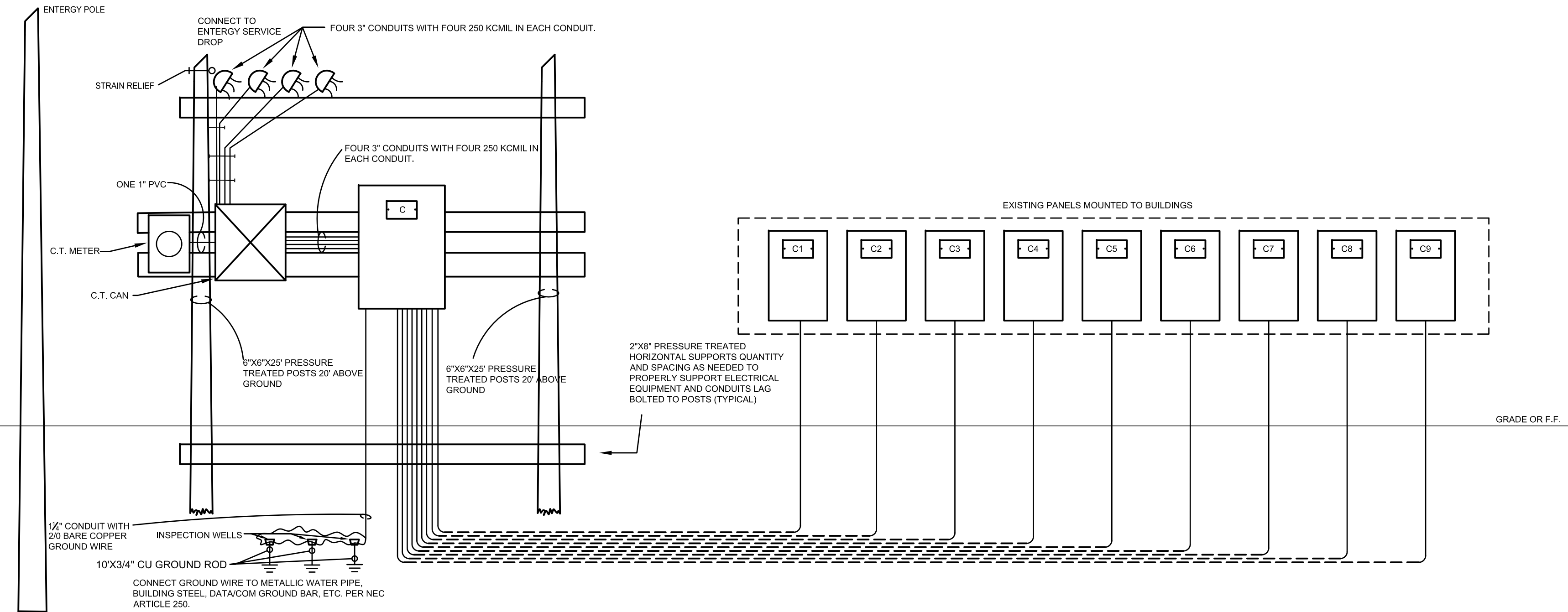
139

AMPS

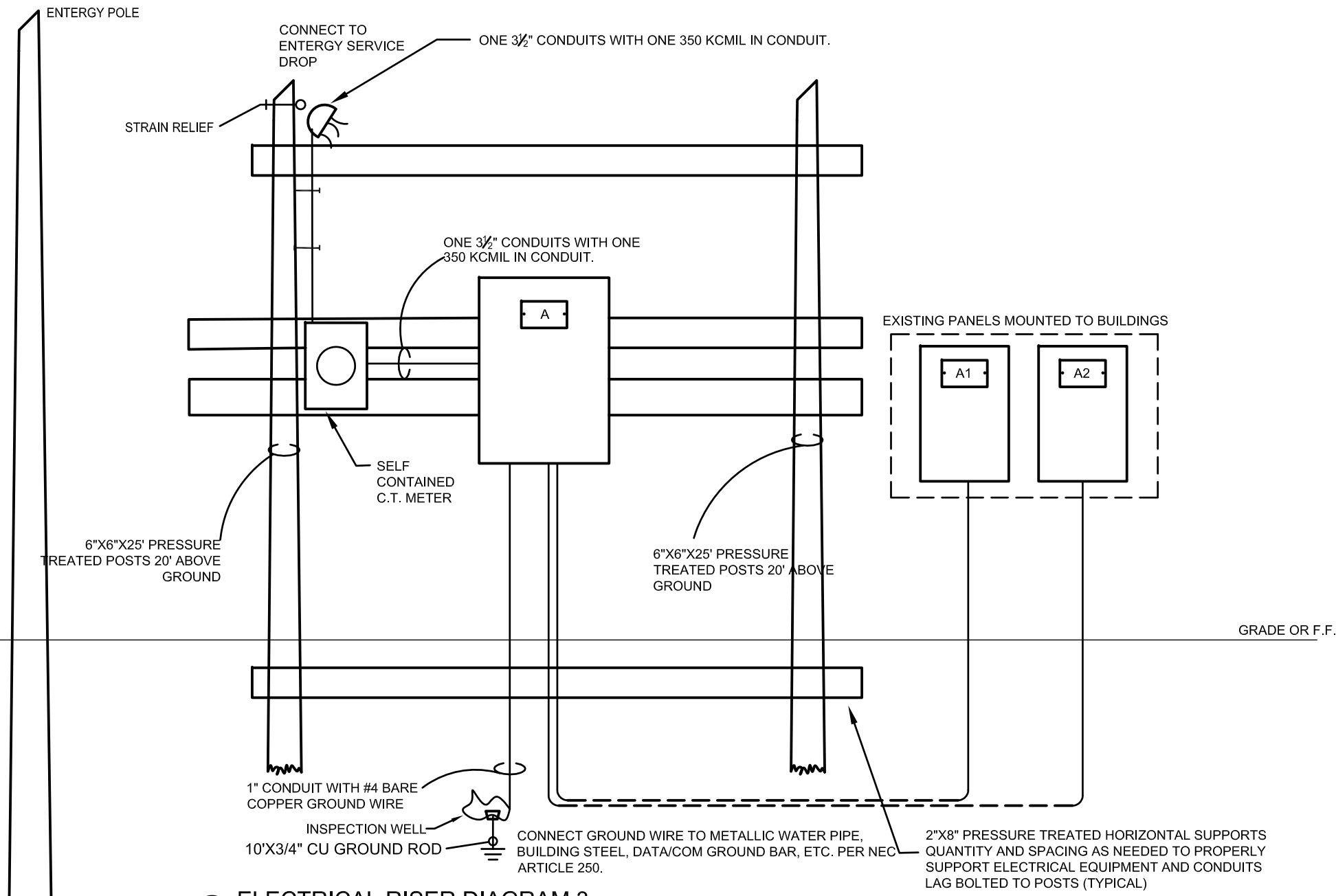
PANEL A2 (EXISTING PANEL ON MODULAR BUILDING)										AIC RATING: AIC									
VOLTAGE <input type="checkbox"/> 120/208V, 1Ø, 3W <input checked="" type="checkbox"/> 120/240V, 1Ø, 3W					ENCLOSURE <input type="checkbox"/> NEMA 1 (TOOL-LESS DOOR-IN-DOOR CONSTRUCTION) <input type="checkbox"/> NEMA 3R <input type="checkbox"/> NEMA 4X 320 STAINLESS STEEL <input type="checkbox"/> LOCKABLE COVER					<input type="checkbox"/> FULLY RATED <input type="checkbox"/> SERIES RATED									
200 AMP <input type="checkbox"/> FACTORY MAIN CIRCUIT BREAKER <input type="checkbox"/> SHUNT TRIP MAIN CB <input type="checkbox"/> MAIN LUGS ONLY <input type="checkbox"/> UL LISTED FEED-THRU LUGS					FEED <input type="checkbox"/> TOP <input type="checkbox"/> BOTTOM					<input type="checkbox"/> FURNISH GROUND BAR KIT <input type="checkbox"/> FURNISH ADDITIONAL ISOLATED GROUND BAR KIT <input type="checkbox"/> SERVICE ENTRANCE LABEL									
NEUTRAL <input checked="" type="checkbox"/> 100% <input type="checkbox"/> 200%					BRANCHES <input type="checkbox"/> BOLT-ON, PANELBOARD CONSR. <input type="checkbox"/> FUSIBLE SWITCHES, FURNISH ALL FUSES, RK5 <input type="checkbox"/> PLUG-ON, LOADCENTER CONSR.														
MOUNTING <input type="checkbox"/> SURFACE <input type="checkbox"/> RECESSED <input type="checkbox"/> FREE STANDING (FRONT ACCESS ONLY) <input type="checkbox"/> FREE STANDING (FRONT AND REAR ACCESS)					ALL COPPER BUSSING														
CKT. #		TRIP AMPS	WIRE	GND	COND.	LOAD DESCRIPTION	NOTES	A B		NOTES	LOAD DESCRIPTION	COND.	GND	WIRE	TRIP AMPS	CKT. #			
1	60	6	10	1"		HVAC UNIT	--			--	RECEPTACLES	1/2"	12	12	20	2			
3							--			--	RECEPTACLES	1/2"	12	12	20	4			
5	20	12	12	1/2"		LIGHTS	--			--	RECEPTACLES	1/2"	12	12	20	6			
7	20	12	12	1/2"		JBOX	--			--	JBOX	1/2"	12	12	20	8			
9	30	10	10	3/4"		WH	--			--						10			
11							--			--							12		
13							--			--							14		
15							--			--							16		
17							--			--						18			
							--			--									
							--			--									
							--			--									
NOTES:																			
								TOTAL LOAD= 20.1 KVA TOTAL AMPS= 84 AMPS											



1 ELECTRICAL RISER DIAGRAM 1
N.T.S. SEE APPROPRIATE PANEL SCHEDULES FOR SUB-FEEDER SIZES.



2 ELECTRICAL RISER DIAGRAM 2
N.T.S. SEE APPROPRIATE PANEL SCHEDULES FOR SUB-FEEDER SIZES.



3 ELECTRICAL RISER DIAGRAM 3
N.T.S. SEE APPROPRIATE PANEL SCHEDULES FOR SUB-FEEDER SIZES.

ELECTRICAL LEGEND

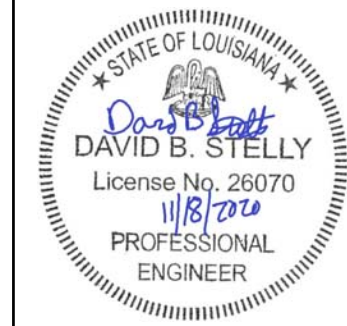
SYMBOL	DESCRIPTION
[Symbol]	LIGHTING FIXTURE - SEE FIXTURE SCHEDULE
[Symbol]	LIGHTING FIXTURE - SEE FIXTURE SCHEDULE
[Symbol]	EXIT SIGN FIXTURE - SEE FIXTURE SCHEDULE
[Symbol]	SINGLE POLE TOGGLE SWITCH
[Symbol]	SUBSCRIPT DENOTES FIXTURE BEING CONTROLLED
[Symbol]	THREE-WAY TOGGLE SWITCH
[Symbol]	DUPLEX CONVENIENCE OUTLET
[Symbol]	COUNTER TOP MOUNTING HEIGHT (CLEAR BACK SPLASH)
[Symbol]	DOUBLE-DUPLEX CONVENIENCE OUTLET
[Symbol]	SPECIAL OUTLET
[Symbol]	JUNCTION BOX
[Symbol]	ELECTRIC MOTOR
[Symbol] FB	FLOOR BOX WITH COMBINATION DUPLEX POWER OUTLET AND DATA OUTLET
[Symbol]	ELECTRICAL PANELBOARD
[Symbol]	DISCONNECT SWITCH
[Symbol]	CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING
[Symbol]	HOMERUN TO ELECTRIC PANELBOARD
[Symbol]	CONDUIT RUN CONCEALED BELOW FLOOR OR IN SLAB
GFI	GROUND FAULT INTERRUPTER PROTECTED
WP	WEATHERPROOF
* [Symbol]	DATA/COMMUNICATIONS OUTLET (18" A.F.F. OR AS NOTED). SEE SPECIFICATIONS
[Symbol]	PHOTOELECTRIC CONTROL
[Symbol]	INTERCOM CEILING SPEAKER (CEILING MOUNTED)
* * [Symbol]	OCCUPANCY SENSOR
*	ROUGH-IN SHALL CONSIST OF DOUBLE GANG BACKBOX WITH SINGLE GANG PLASTER RING AND TWO 3/4" C STUBBED ABOVE CEILING AND APPROPRIATE COVERPLATE.
* *	"c" SUBSCRIPT DENOTES CEILING MOUNT.

SECURITY DEVICE LEGEND

[Symbol]	SONITROL FLEX IBASE CONTROL PANEL OR EQUIVALENT
[Symbol]	KEY PAD
[Symbol]	PANIC BUTTON
[Symbol]	AUDIO DETECTOR
[Symbol]	MOTION DETECTOR
[Symbol]	DOOR CONTACT

Construction Documents

No.	Description	Date



St. Margaret of Scotland
Catholic - Temp Facilities

RISER DIAGRAMS

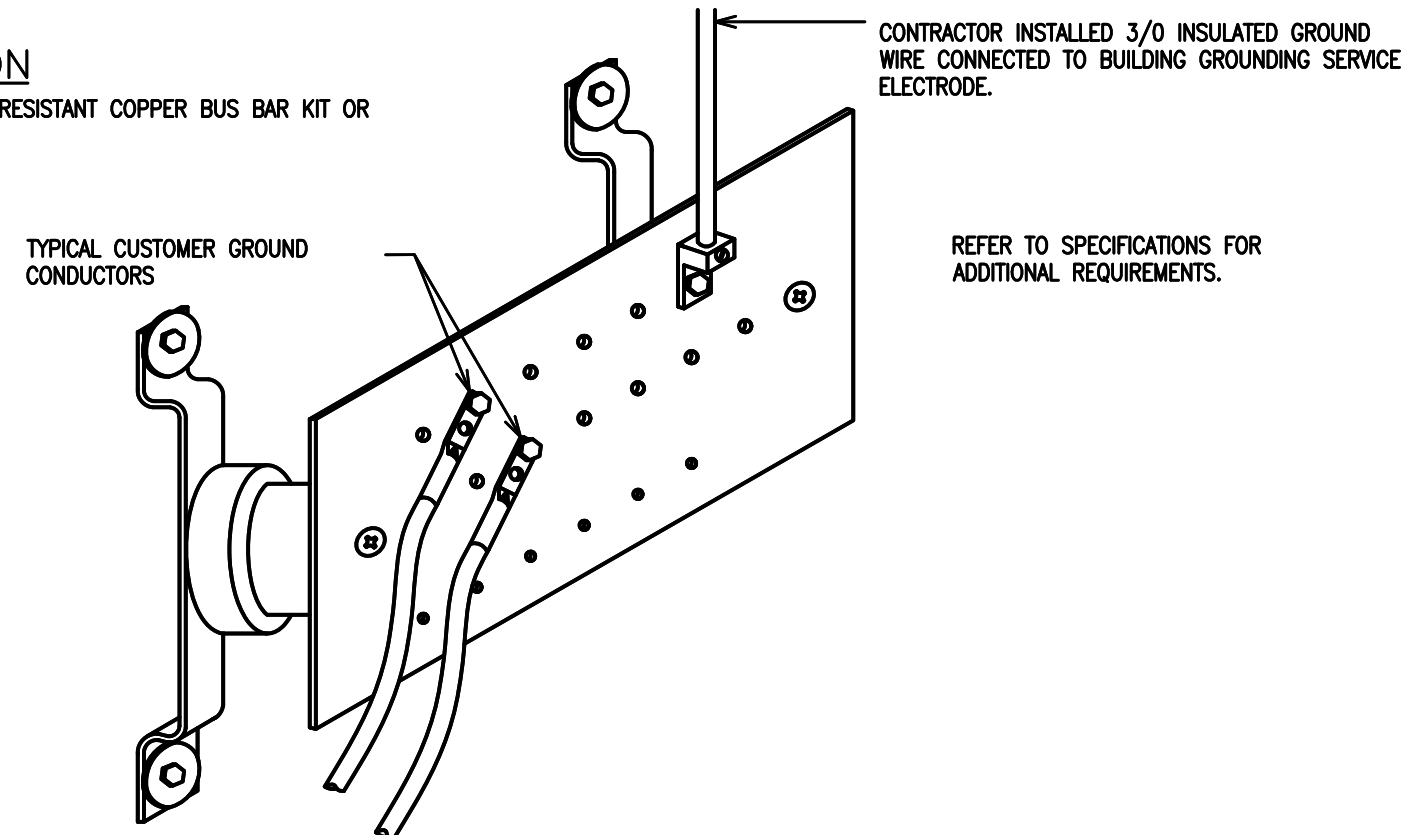
Copyright 2020 ACSW	
ASW Project number	20042
Date	11-19-2020
Drawn by	MP
Checked by	DS/PM
E301	
Scale	As indicated



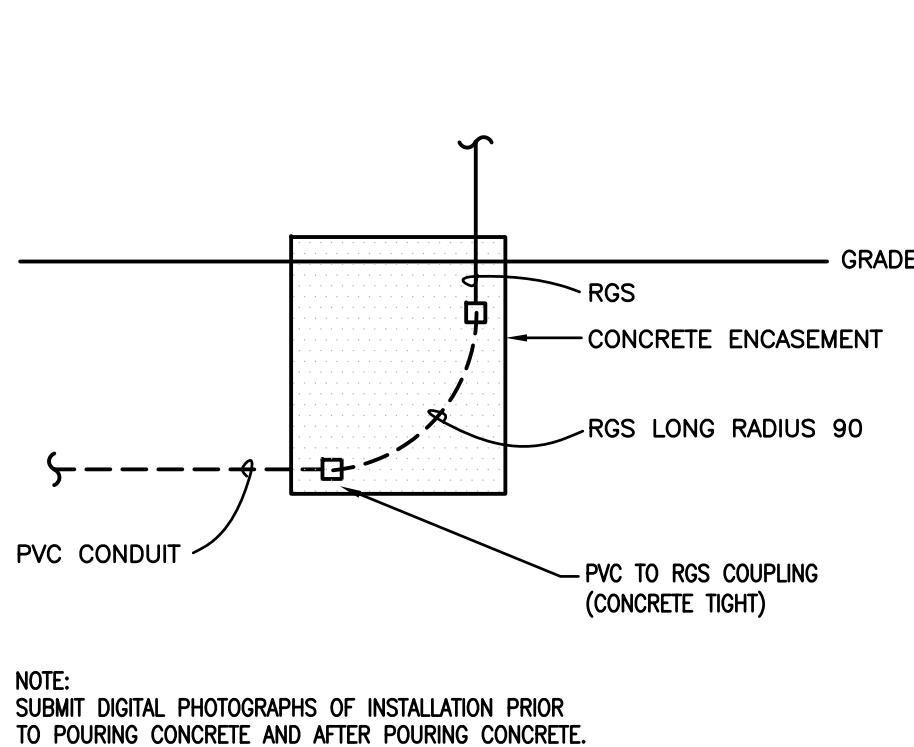
ASSOCIATED DESIGN GROUP, INC.
3909 W Congress Street, Suite 201
Lafayette, Louisiana 70506
Phone: (337) 234-5710
Email: adginc@adginc.org

Project No. 20258

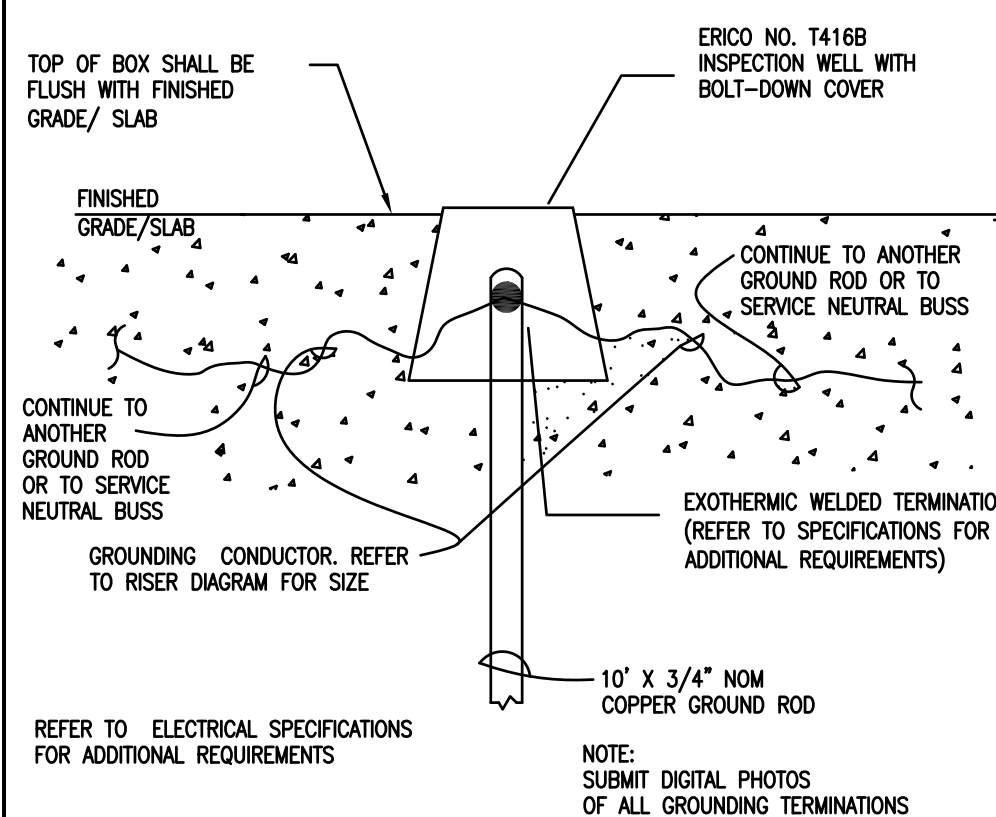
ANDREWS CORPORATION
NO. MTC 9674TS 1/4" X 2" X 10" TAMPER RESISTANT COPPER BUS BAR KIT OR EQUIVALENT.



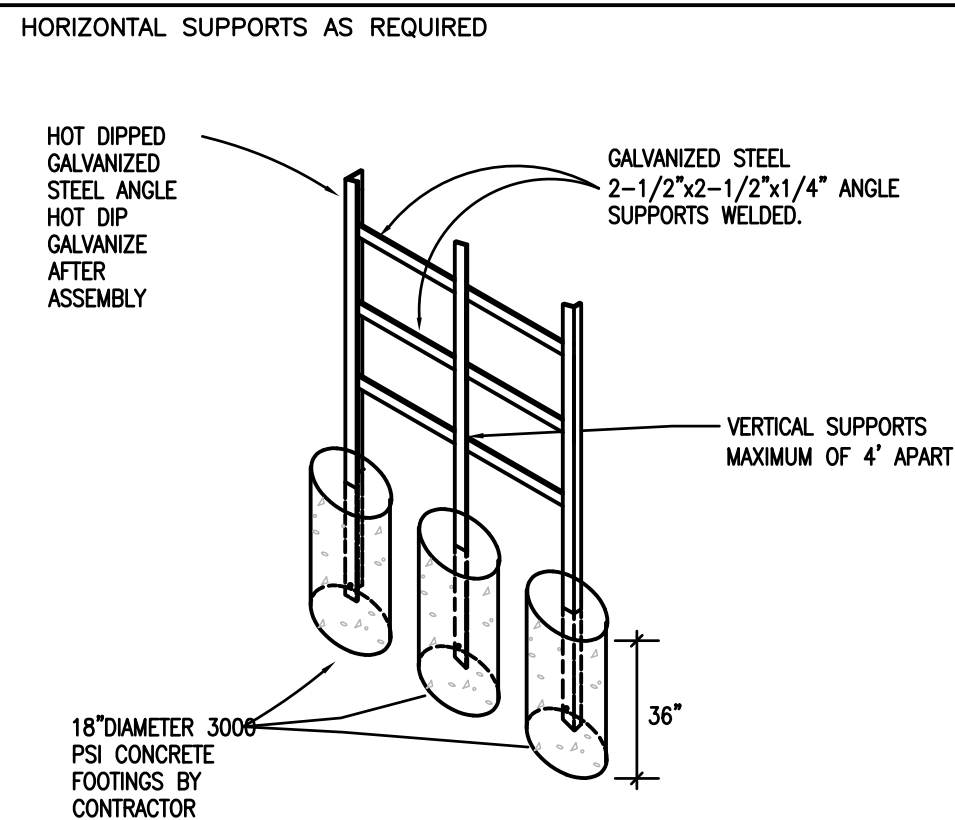
1 TELE/DATA/CATV - GROUND DETAIL (BACK BOARD AND EVERY CLOSET)
NO SCALE



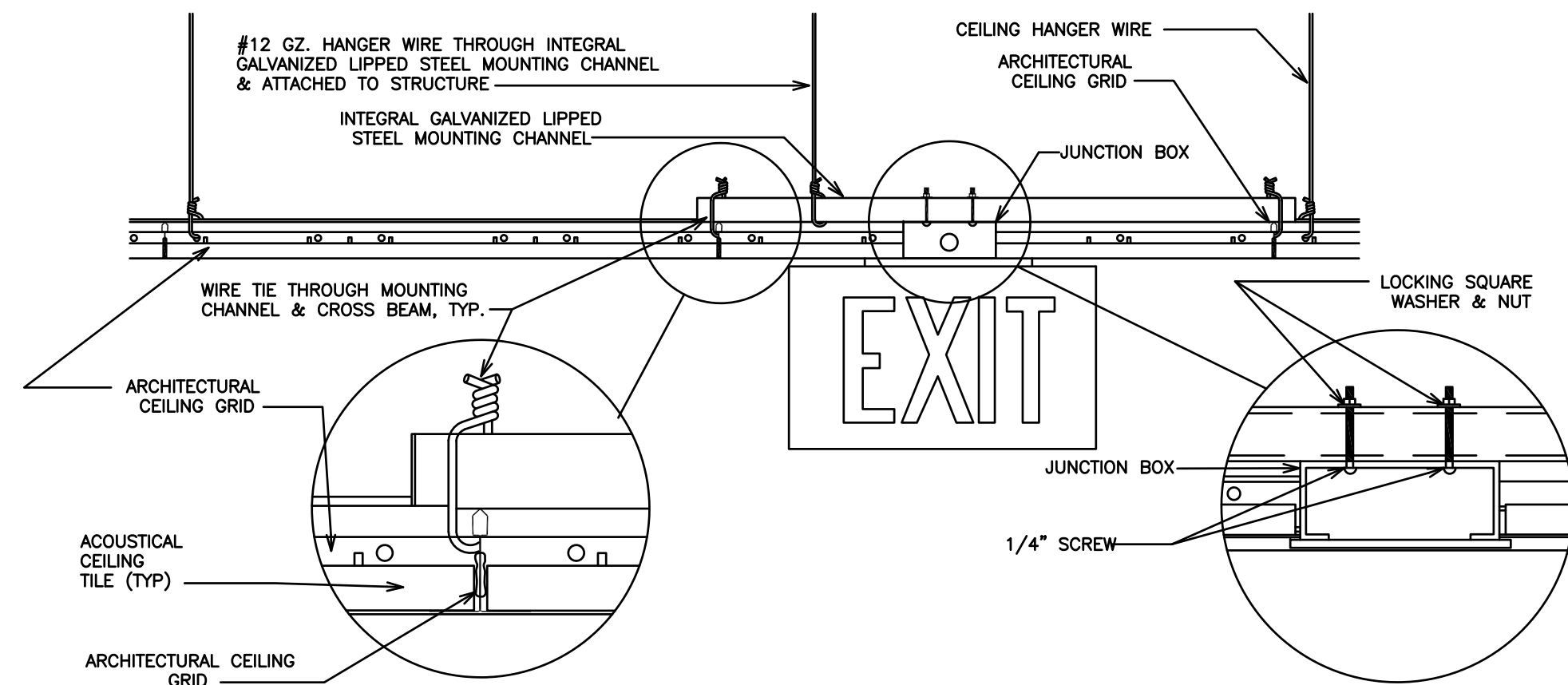
2 TYPICAL UNDERGROUND STUB-UP DETAIL
NO SCALE



3 TYPICAL GROUND ROD INSTALLATION DETAIL
NO SCALE



4 UNISTRUT RACK DETAIL
NO SCALE



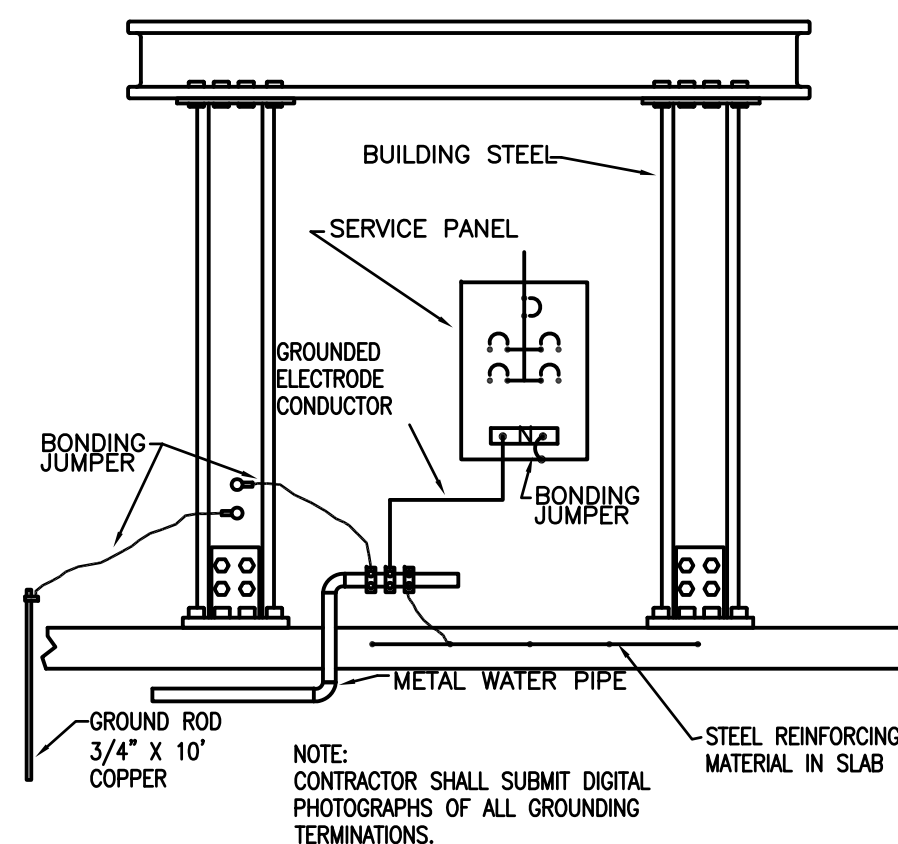
5 EXIT SIGN MOUNTING - LAY-IN CEILING
NO SCALE

TYPICAL PANELBOARD PLAQUE
(INDICATE PANEL DESIGNATION)
/ VOLTS PHASE WIRE
/ AMPS MAIN
FED FROM
(INDICATE FEEDER ORIENTATION ID.)
(PANEL AND CIRCUIT NO.)

(INDICATE EQUIPMENT DESCRIPTION)
FUSED AT _/_ AMPERES
FED FROM
(INDICATE FEEDER ORIENTATION ID.)
(PANEL AND CIRCUIT NO.)
TYPICAL DISCONNECT PLAQUE

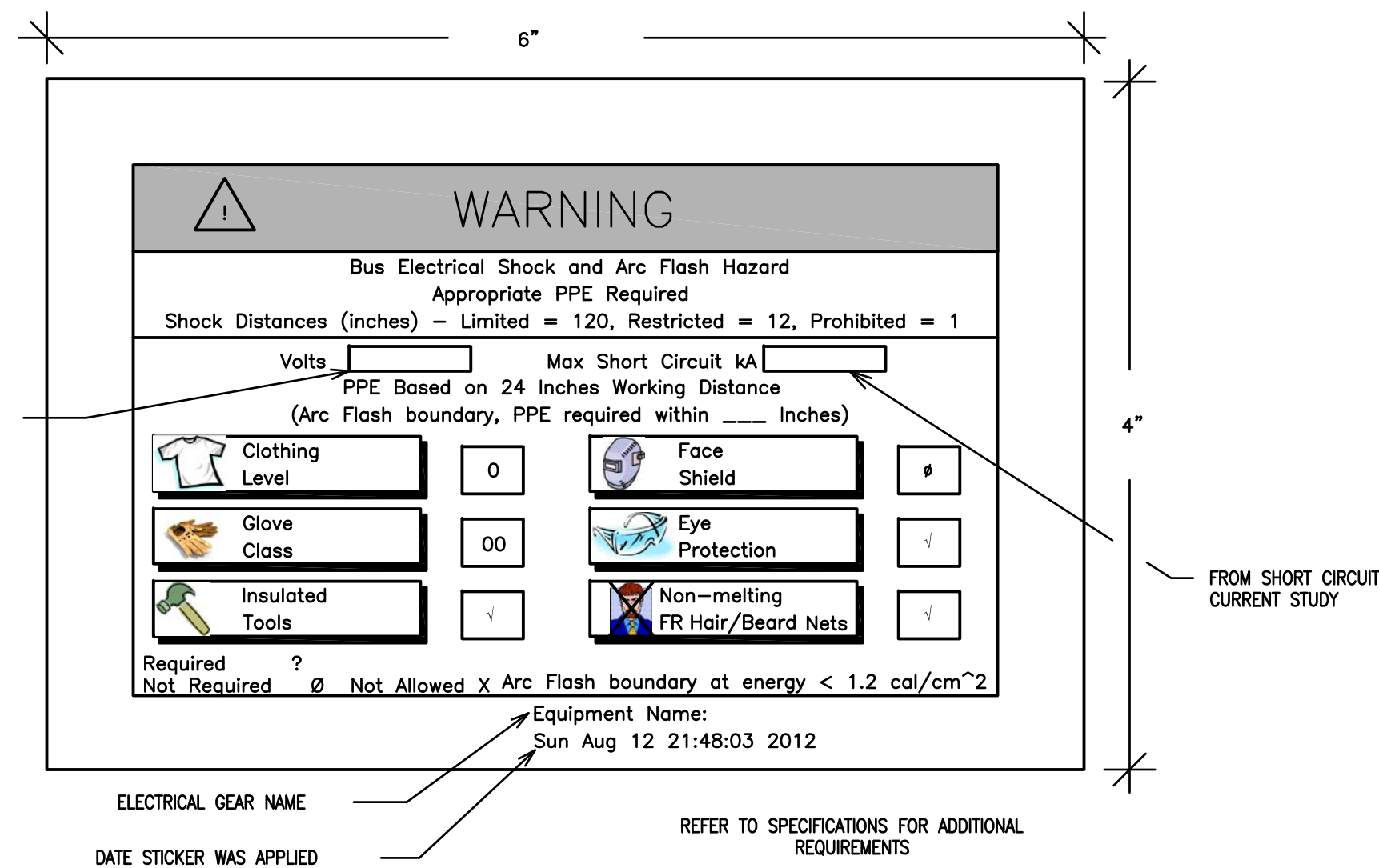
SEE SPECIFICATIONS FOR MATERIALS, COLORS SIZE LETTERING, ETC.

ATTACH PLAQUES USING INDUSTRIAL GRADE DOUBLE FACE ADHESIVE.



7 GROUNDING TO BLDG. STEEL DETAIL
NO SCALE

8 ARC FLASH LABELING DETAIL
NO SCALE



AGREEMENT FOR SINGLE USE OF ELECTRONIC (CAD) MEDIA
ADG ENGINEERING

At your request, and at a cost of \$10.00 per drawing sheet, to facilitate the preparation of shop drawings or submittals, we will provide electronic files for your singular, limited use specifically on the project in question, subject to the following terms and conditions:

The electronic files are compatible with AutoCad 2010. We make no representation as to the compatibility of these files with your hardware or your software beyond the specified release of the referenced specifications. CAD files remain the property of the Engineer of Record and in no case shall the transfer of these files be considered a sale.

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By requesting electronic media, requestor is acknowledging acceptance of all verbiage contained in this form. See specifications for additional information.

9 AGREEMENT FOR SINGLE USE OF ELECTRONIC (CAD) MEDIA
NO SCALE

Construction Documents

No.	Description	Date



St. Margaret of Scotland
Catholic - Temp Facilities

DETAILS

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ASW Project number	20042
Date	11-19-2020
Drawn by	MP
Checked by	DS/PM
E302	
Scale	As indicated



ASSOCIATED DESIGN GROUP, INC.
3909 W Congress Street, Suite 201
Lafayette, Louisiana 70506
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Project No. 20258

FIRE ALARM GENERAL NOTES:

- A. INDICATING CIRCUIT LAYOUT SHALL BE BASED ON 1.5 AMP PER INDICATING CIRCUIT. AVAILABLE NUMBER AND LAYOUT OF CIRCUITS MAY BE REVISED UPON APPROVAL OF THE ENGINEER IF AVAILABLE INDICATING APPLIANCE POWER PER CIRCUIT DIFFERS FROM THE 1.5 AMP UTILIZED IN DESIGN. HOWEVER, THE DESIGN SHALL NOT RESULT IN A LOAD GREATER THAN (80) EIGHTY PERCENT OF THE AVAILABLE POWER FOR THE ALARM INDICATING CIRCUIT.
- B. ALL WIRE/CABLE FOR INITIATING AND INDICATING CIRCUITS SHALL COMPLY WITH NFPA 70 ARTICLE 760. ALL WIRE SHALL BE RUN IN CONDUIT, WHERE WIRE IS SUBJECT TO DAMAGE, WHICH SHALL BE RUN IN NEAT AND ORDERLY MANNER AS HIGH AS POSSIBLE.
- C. CONNECTION TO 120 VOLT POWER SUPPLY SHALL BE ON A DEDICATED BRANCH CIRCUIT. THE CIRCUIT DISCONNECTING MEANS SHALL HAVE A RED MARKING, BE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL AND BE IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL." THE LOCATION OF THE CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL UNIT.
- D. LOCATION OF REMOTE POWER SUPPLIES MUST BE APPROVED BY ENGINEER. PROVIDE SMOKE DETECTOR IN ROOM FOR EACH UNIT.
- E. FIRE ALARM STROBE SIGNALS SHALL CONTINUE TO FLASH, AFTER AUDIBLE SIGNALS ARE SILENCED, UNTIL SYSTEM IS RESET.
- F. SEAL PENETRATIONS OF RATED WALLS TO MAINTAIN THE INTEGRITY OF THE WALL ASSEMBLY.
- G. PENETRATIONS OF EXTERIOR WALLS AND ROOF DECK SHALL BE WEATHER PROOFED.
- H. ROUTING AND LOCATION OF EQUIPMENT AND CIRCUITS SHALL BE FIELD DETERMINED AND INDICATED ON AS-BUILT DRAWINGS. FINAL INSTALLATION SHALL BE IN STRICT COMPLIANCE WITH NFPA 72 AND ADAAG.
- I. FIRE ALARM CONTRACTOR SHALL COORDINATE CONDUIT AND CONDUCTOR SIZES WITH SYSTEMS VENDOR AND SHALL PROVIDE MATERIAL AS REQUIRED.
- J. HORN/STROBES AND SUPPLIES FOR THIS JOB SHALL BE WHITE IN COLOR.
- K. PROVIDE AND INSTALL DITEK NO 2MHLPB-WS ON ALL INITIATING CIRCUITS ENTER/LEAVING THE BUILDING. PROVIDE AND INSTALL DEVICES IN JUNCTION BOX CONCEALED ABOVE ACCESSIBLE CEILING IMMEDIATELY AT BUILDING EXTERIOR WALL. PROPERLY GROUND DEVICE PER MANUFACTURER'S INSTRUCTIONS.
- L. PROVIDE AND INSTALL DITEK NO. DTK-120SRD-A ON ALL 120V CIRCUITS PROVIDING POWER TO ANY AND ALL FIRE ALARM SYSTEM COMPONENTS. PROVIDE AND INSTALL EMPTY CABINET ADJACENT TO RESPECTIVE FIRE ALARM SYSTEM (MATCH FIRE ALARM SYSTEM DEVICE CABINET). CABINET TO HOUSE SURGE PROTECTION DEVICE.

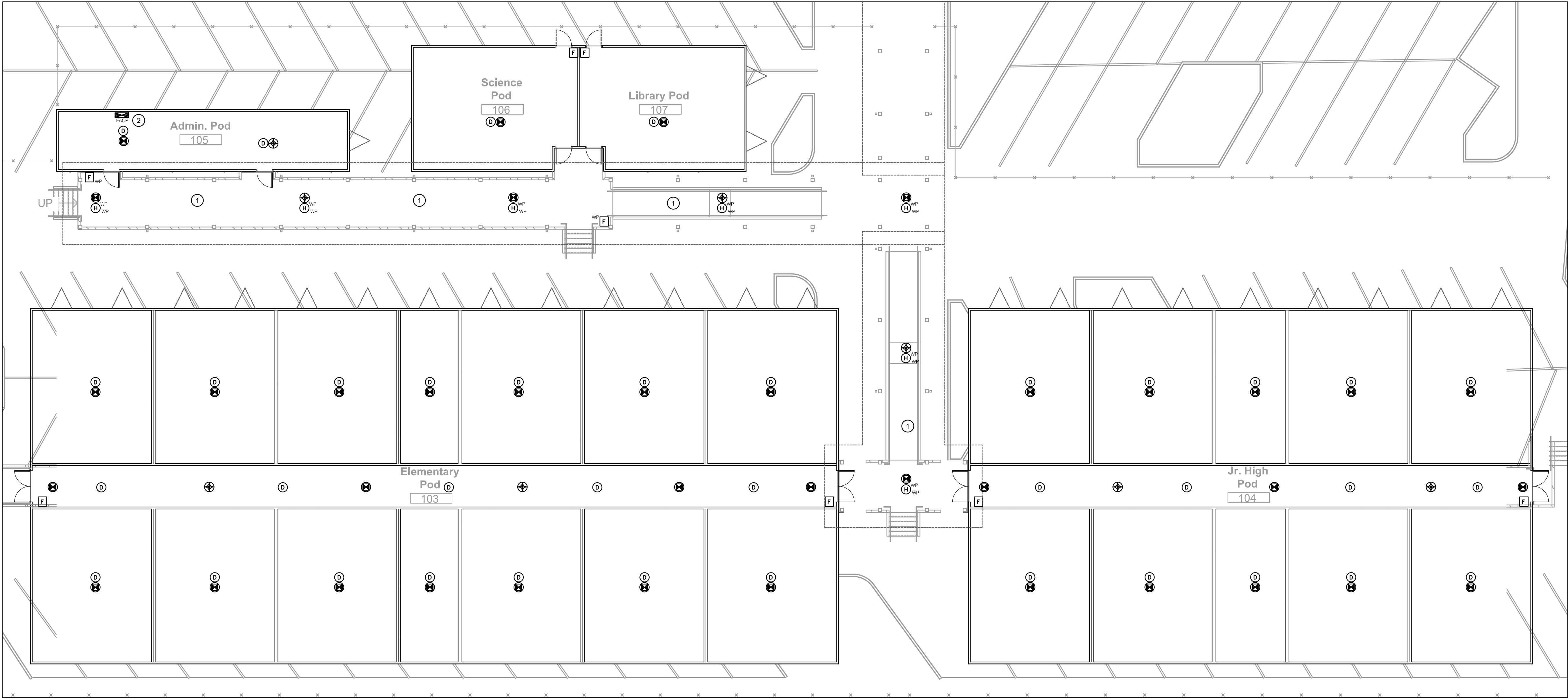
FIRE ALARM KEYNOTES:

- 1 AUDIO/VISUAL DEVICES INSTALLED UNDER COVER WALKWAY SHALL BE LISTED FOR OUTDOOR USE.
- 2 APPROXIMATE LOCATION OF NEW SIEMENS CERBERUS PACE VOICE EVAC FIRE ALARM PANEL.

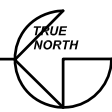
FIRE ALARM LEGEND	
NOT ALL DEVICES ARE NECESSARILY USED ON THIS PROJECT	
SYMBOL	DESCRIPTION
	SMOKE DETECTOR (CEILING MOUNTED)
	WEATHER PROOF HEAT DETECTOR (CEILING MOUNTED)
	WEATHER PROOF FIRE ALARM PULL STATION WITH STI STOPPER II COVER
	FIRE ALARM SPEAKER/STROBE UNIT (CEILING MOUNTED)
	FIRE ALARM STROBE UNIT (CEILING MOUNTED)
	FIRE ALARM VOICE EVAC PANEL - SIEMENS CERBERUS PACE
	DENOTES WEATHERPROOF DEVICE

NOTE:
FIRE ALARM WIRING SHALL BE RAN IN CONDUITS UNDER BOTTOM OF FLOOR JOIST OF ELEVATED WOODEN WALKWAYS AS TO PREVENT A TRIPPING HAZARD.

NOTE:
FIRE ALARM DEVICES SHOWN ARE PRESCRIPTIVE. FINAL DESIGN TO BE COMPLETED BY FIRE ALARM CONTRACTOR AND APPROVED BY FIRE MARSHALL PRIOR TO INSTALLATION.



1 FIRE ALARM PLAN
3/32" = 1'-0"



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St. Margaret of Scotland
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FIRE ALARM PLAN

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Drawn by	SPC
Checked by	DBS

FA1.01

Scale As indicated

PLUMBING KEYNOTES:

1. PROVIDE NEW POTABLE WATER SERVICE WITH SERVICE TAP AND METER BY LOCAL WATER UTILITY COMPANY (64 GPM DEMAND). VERIFY EXACT TIE-IN LOCATION PRIOR TO ANY ROUGH-INS. CONTRACTOR SHALL PAY ALL SERVICE AND CONNECTION CHARGES INCLUDING TAP, WATER METER AND BORING ACROSS THE STREET.
2. PROVIDE DOMESTIC WATER SHUTOFF VALVE IN CAST IRON VALVE BOX WITH CONCRETE PAD AND METAL COVER MARKED "WATER". REFER TO DETAIL 2 / P2.0.
3. PROVIDE AND INSTALL A 2-1/2" WATTS SERIES LP009 REDUCE PRESSURE ZONE BACKFLOW PREVENTER AS PER LOCAL CODES. BACKFLOW PREVENTER SHALL HAVE BRONZE STRAINER, STAINLESS STEEL CHECK SEATS, BALL TYPE CUTOFF VALVES, SPRING LOADED "Y" PATTERN CHECK VALVES, RELIEF VALVE, TEST COCKS, AND SHALL CONFORM TO ALL CODES. INSULATE AS PER SPECIFICATIONS. PROVIDE A INSULATED HEATED ENCLOSURE HOT BOX MODEL HB3NS WITH A 1500 WATT HEATER (120-140) OVER BACKFLOW PREVENTER. COORDINATE COLOR AND LOCATION OF HOT BOX WITH ARCHITECT. PROVIDE CONCRETE PAD FOR ANCHOR INSTALLATION.
4. CONNECT TO EXISTING SANITARY SEWER MANHOLE IN THIS VICINITY IN ACCORDANCE WITH STATE AND LOCAL UTILITIES DEPARTMENT REQUIREMENTS. VERIFY FLOW DIRECTION, INVERT, LINE SIZE, AND TIE-IN LOCATION PRIOR TO ANY ROUGH-INS. PLUMBING CONTRACTOR SHALL PAY ALL SERVICE AND CONNECTION CHARGES. CONTRACTOR SHALL CUT AND PATCH STREET PER CITY STANDARDS AS REQUIRED FOR NEW TAP.
5. PROVIDE NEW FIBERGLASS MANHOLE COMPLYING WITH CITY OF LAKE CHARLES STANDARD SPECIFICATIONS FOR INFRASTRUCTURE CONSTRUCTION. VERIFY EXACT INVERT AND ELEVATION IN FIELD.
6. PROVIDE EXTERIOR CLEANOUT WITH CONCRETE PAD PER DETAIL 2 / P2.0.
7. CONNECT SEWER AND WATER TO ALL PLUMBING FIXTURES AND WATER HEATERS IN TEMPORARY BUILDINGS. REFER TO MANUFACTURERS DETAILS FOR CONNECTION LOCATIONS AND SIZES.
8. RISE UP WITH WATER LINE TO ABOVE GRADE BELOW TEMPORARY BUILDING. ALL WATER LINES ABOVE GRADE SHALL BE INSULATED AND COVERED WITH ALUMINUM JACKETS. PROVIDE HANGERS AND CONNECT TO ALL PLUMBING FIXTURE WATER CONNECTION POINTS.
9. PROVIDE A 2" HUB DRAIN FOR INDIRECT CONDENSATE DRAIN AT EACH A/C UNIT. EXTEND A/C UNIT DRAIN LINE TO HUB DRAIN. CONNECT HUB DRAINS TO NEW SEWER LINES AS SHOWN. CONDENSATE DRAIN LINES MAY RUN ABOVE GRADE WHERE CONCEALED BY BUILDINGS AND WALKWAYS.
10. DROP DOWN WITH SEWER LINE FROM ABOVE GRADE TO BELOW GRADE IN THIS VICINITY.
11. PROVIDE END CLEANOUT CAP AT EDGE OF TEMPORARY BUILDING. TURN UP AND RISE TO FLUSH WITH FINISHED FLOOR ELEVATION.
12. PROVIDE WALL CLEANOUT CAP ON WASTE STACK ABOVE FLOOR.
13. PROVIDE AND INSTALL LIFT STATION WITH TRASH TRAP PER DETAIL 4 ON SHEET P2.0. RUN 2-1/2" FORCE MAIN FROM LIFT STATION DISCHARGE TO CITY MANHOLE. CONNECT 3" VENT LINE TO LIFT STATION. RUN TO CORNER OF BUILDING AND RISE UP TO ABOVE ROOF. MOUNT CONTROL/ALARM PANEL ON UNISURTR NEAR TEMPORARY CLASSROOM BUILDING. COORDINATE EXACT LOCATION IN FIELD WITH ARCHITECT AND ELECTRICAL CONTRACTOR PRIOR TO ROUGH-IN. CONNECT NEW SEWER LINES TO LIFT STATION.

GENERAL NOTES:

- A. ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND FEDERAL CODES (INCLUDING INTERNATIONAL PLUMBING CODE, INTERNATIONAL BUILDING CODE, INTERNATIONAL FUEL GAS CODE, NFPA, ETC.) AND APPLICABLE DEQ AND DHHP REGULATIONS TO THE SATISFACTION OF THE AUTHORITIES HAVING JURISDICTION. CONTRACTOR SHALL OBTAIN REQUIRED PERMITS AND APPROPRIATE WORK AUTHORIZATION PRIOR TO BEGINNING WORK.
- B. CONTRACTOR SHALL VERIFY EXACT LOCATION OF UTILITIES. INVERT ELEVATIONS, ETC. PRIOR TO BEGINNING ANY ROUGH-IN OF SUBSURFACE WORK. COORDINATE ALL UTILITY TIE-IN REQUIREMENTS WITH RESPECTIVE UTILITIES.
- C. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, DETAILS, ETC. INSTALL WORK TO CONFORM TO ARCHITECTURAL AND STRUCTURAL DRAWINGS AS REQUIRED. REVIEW COMPLETE SET OF CONTRACT DOCUMENTS PRIOR TO SUBMITTING BID.
- D. CONTRACTOR SHALL RUN ALL NEW UTILITIES (WATER, SEWER, ETC.) AROUND NEW CONSTRUCTION AREA AS INDICATED PRIOR TO SHUTTING DOWN OR TIE-IN INTO ANY SYSTEMS. COORDINATE ALL UTILITY SERVICE DISRUPTIONS TO OTHER UTILITY CUSTOMERS WITH RESPECTIVE UTILITY. ALL UTILITY RELOCATION (SUCH AS WATER) SHALL BE DONE IN STRICT COMPLIANCE WITH UTILITY COMPANY STANDARDS AND REQUIREMENTS. CONTACT UTILITY COMPANY, VERIFY AND DOCUMENT REQUIREMENTS, COSTS, CHARGES, ETC. CONTRACTOR SHALL FULLY COMPLY WITH ALL UTILITY COMPANY REQUIREMENTS.
- E. COORDINATE ALL WORK THROUGH GENERAL CONTRACTOR. COORDINATE CUTTING, PATCHING, TRENCHING WORK WITH SITE GRADING / PAVING PLAN.
- F. UNDERGROUND UTILITIES ARE APPROXIMATE. VERIFY INVERTS AND EXACT LOCATIONS WITH UTILITY PERSONNEL. VERIFY ALL EASEMENTS WITH APPROPRIATE PARTIES. ADJUST ALL UTILITY LINES ACCORDINGLY.
- G. COORDINATE INSTALLATION OF ALL PLUMBING, PIPING, ETC. WITH ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL, ELECTRICAL, EXISTING AND NEW CONDITIONS, ALL TRADES, ETC.
- H. ALL DOMESTIC WATER BRANCH LINES SHALL HAVE VALVES AT MAINLINES.

Construction Documents

No.	Description	Date



St. Margaret of Scotland
Catholic - Temp Facilities

PLUMBING SITE PLAN

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ASW Project number	20042
Date	11-19-2020
Drawn by	JB
Checked by	TA

P1.01

Scale As indicated

18TH STREET

17TH STREET

ENTERPRISE BLVD

DROP OFF

1 PLUMBING SITE PLAN
1/16" = 1'-0"

NOTE:
MANHOLES, COVERS, SEWER MAIN, WATER MAINS AND INSTALLATION, EXCAVATION, BEDDING, TESTING, ETC. SHALL COMPLY WITH CITY OF LAKE CHARLES STANDARD SPECIFICATIONS FOR INFRASTRUCTURE CONSTRUCTION. CONTRACTOR SHALL OBTAIN INSPECTION FROM CITY OF LAKE CHARLES PRIOR TO COVERING MANHOLES, SITE SEWER PIPING AND SITE WATER PIPING WITH DIRT.

LIFT STATION CALCULATIONS:
300 STUDENTS AND STAFF X 20 GPD = 6,000 GPD
6,000 GPD / 1440 = 4.17 GPM
PEAK HOURLY FLOW FACTOR = $(19 + \sqrt{P})(4 + \sqrt{P}) = (19 + \sqrt{4.17})(4 + \sqrt{4.17}) = 4.08$
PEAK HOURLY FLOW = 4.17 GPM X 4.08 = 17.01 GPM
LIFT STATION PUMPS SIZED FOR 45 GPM AT 14' HEAD.
IF 2-1/2" LINE IS USED, RESULTING VELOCITY AT 45 GPM = 2.94 FT/SEC.



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Project No. 20258

PLUMBING KEYNOTES:

- 1 PROVIDE NEW POTABLE WATER SERVICE WITH SERVICE TAP AND METER BY LOCAL WATER UTILITY COMPANY (64 GPM DEMAND). VERIFY EXACT TIE-IN LOCATION PRIOR TO ANY ROUGH-INS. CONTRACTOR SHALL PAY ALL SERVICE AND CONNECTION CHARGES INCLUDING TAP, WATER METER AND BORING ACROSS THE STREET.
- 2 PROVIDE DOMESTIC WATER SHUTOFF VALVE IN CAST IRON VALVE BOX WITH CONCRETE PAD AND METAL COVER MARKED "WATER". REFER TO DETAIL 2 / P2.0.
- 3 PROVIDE AND INSTALL A 2-1/2" WATTS SERIES LF009 REDUCE PRESSURE ZONE BACKFLOW PREVENTER AS PER LOCAL CODES. BACKFLOW PREVENTER SHALL HAVE BRONZE STRAINER, STAINLESS STEEL CHECK SEATS, BALL TYPE CUTOFF VALVES, SPRING LOADED "Y" PATTERN CHECK VALVES, RELIEF VALVE, TEST COCKS, AND SHALL CONFORM TO ALL CODES. INSULATE AS PER SPECIFICATIONS. PROVIDE A INSULATED HEATED ENCLOSURE HOT BOX MODEL HB3NS WITH A 1500 WATT HEATER (120-1-60) OVER BACKFLOW PREVENTER. COORDINATE COLOR AND LOCATION OF HOT BOX WITH ARCHITECT. PROVIDE CONCRETE PAD FOR ANCHOR INSTALLATION.
- 4 CONNECT TO EXISTING SANITARY SEWER MANHOLE IN THIS VICINITY IN ACCORDANCE WITH STATE AND LOCAL UTILITIES DEPARTMENT REQUIREMENTS. VERIFY FLOW DIRECTION, INVERT, LINE SIZE, AND TIE-IN LOCATION PRIOR TO ANY ROUGH-INS. PLUMBING CONTRACTOR SHALL PAY ALL SERVICE AND CONNECTION CHARGES. CONTRACTOR SHALL CUT AND PATCH STREET PER CITY STANDARDS AS REQUIRED FOR NEW TAP.
- 5 PROVIDE NEW FIBERGLASS MANHOLE COMPLYING WITH CITY OF LAKE CHARLES STANDARD SPECIFICATIONS FOR INFRASTRUCTURE CONSTRUCTION. VERIFY EXACT INVERT AND ELEVATION IN FIELD.
- 6 PROVIDE EXTERIOR CLEANOUT WITH CONCRETE PAD PER DETAIL 2 / P2.0.
- 7 CONNECT SEWER AND WATER TO ALL PLUMBING FIXTURES AND WATER HEATERS IN TEMPORARY BUILDINGS. REFER TO MANUFACTURERS DETAILS FOR CONNECTION LOCATIONS AND SIZES.
- 8 RISE UP WITH WATER LINE TO ABOVE GRADE BELOW TEMPORARY BUILDING. ALL WATER LINES ABOVE GRADE SHALL BE INSULATED AND COVERED WITH ALUMINUM JACKETS. PROVIDE HANGERS AND CONNECT TO ALL PLUMBING FIXTURE WATER CONNECTION POINTS.
- 9 PROVIDE A 2" HUB DRAIN FOR INDIRECT CONDENSATE DRAIN AT EACH A/C UNIT. EXTEND A/C UNIT DRAIN LINE TO HUB DRAIN. CONNECT HUB DRAINS TO NEW SEWER LINES AS SHOWN. CONDENSATE DRAIN LINES MAY RUN ABOVE GRADE WHERE CONCEALED BY BUILDINGS AND WALKWAYS.
- 10 DROP DOWN WITH SEWER LINE FROM ABOVE GRADE TO BELOW GRADE IN THIS VICINITY.
- 11 PROVIDE END CLEANOUT CAP AT EDGE OF TEMPORARY BUILDING. TURN UP AND RISE TO FLUSH WITH FINISHED FLOOR ELEVATION.
- 12 PROVIDE WALL CLEANOUT CAP ON WASTE STACK ABOVE FLOOR.
- 13 PROVIDE AND INSTALL LIFT STATION WITH TRASH TRAP PER DETAIL 4 ON SHEET P2.0. RUN 2-1/2" FORCE MAIN FROM LIFT STATION DISCHARGE TO CITY MANHOLE. CONNECT 3" VENT LINE TO LIFT STATION. RUN TO CORNER OF BUILDING AND RISE UP TO ABOVE ROOF. MOUNT CONTROL/ALARM PANEL ON UNISTRUT NEAR TEMPORARY CLASSROOM BUILDING. COORDINATE EXACT LOCATION IN FIELD WITH ARCHITECT AND ELECTRICAL CONTRACTOR PRIOR TO ROUGH-IN. CONNECT NEW SEWER LINES TO LIFT STATION.
- 14 CUT EXISTING ASPHALT PARKING LOT AND CONCRETE SIDEWALKS AS REQUIRED FOR NEW SEWER AND WATER ROUTING BELOW GRADE. PATCH TO MATCH EXISTING.



GENERAL NOTES:

- A. ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND FEDERAL CODES (INCLUDING INTERNATIONAL PLUMBING CODE, INTERNATIONAL BUILDING CODE, INTERNATIONAL FUEL GAS CODE, NFPA, ETC.) AND APPLICABLE DEO AND DRHP REGULATIONS TO THE SATISFACTION OF THE AUTHORITIES HAVING JURISDICTION. CONTRACTOR SHALL OBTAIN REQUIRED PERMITS AND APPROPRIATE WORK AUTHORIZATION PRIOR TO BEGINNING WORK.
- B. CONTRACTOR SHALL VERIFY EXACT LOCATION OF UTILITIES, INVERT ELEVATIONS, ETC. PRIOR TO BEGINNING ANY ROUGH-IN OF SUBSURFACE WORK. COORDINATE ALL UTILITY TIE-IN REQUIREMENTS WITH RESPECTIVE UTILITIES.
- C. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, DETAILS, ETC. INSTALL WORK TO CONFORM TO ARCHITECTURAL AND STRUCTURAL DRAWINGS AS REQUIRED. REVIEW COMPLETE SET OF CONTRACT DOCUMENTS PRIOR TO SUBMITTING BID.
- D. CONTRACTOR SHALL RUN ALL NEW UTILITIES (WATER, SEWER, ETC.) AROUND NEW CONSTRUCTION AREA AS INDICATED PRIOR TO SHUTTING DOWN OR TIEING INTO ANY SYSTEMS. COORDINATE ALL UTILITY SERVICE DISRUPTIONS TO OTHER UTILITY CUSTOMERS WITH RESPECTIVE UTILITY. ALL UTILITY RELOCATION (SUCH AS WATER) SHALL BE DONE IN STRICT COMPLIANCE WITH UTILITY COMPANY STANDARDS AND REQUIREMENTS. CONTACT UTILITY COMPANY, VERIFY AND DOCUMENT REQUIREMENTS, COSTS, CHARGES, ETC. CONTRACTOR SHALL FULLY COMPLY WITH ALL UTILITY COMPANY REQUIREMENTS.
- E. COORDINATE ALL WORK THROUGH GENERAL CONTRACTOR. COORDINATE CUTTING, PATCHING, TRENCHING WORK WITH SITE GRADING / PAVING PLAN.
- F. UNDERGROUND UTILITIES ARE APPROXIMATE. VERIFY INVERTS AND EXACT LOCATIONS WITH UTILITY PERSONNEL. VERIFY ALL EASEMENTS WITH APPROPRIATE PARTIES. ADJUST ALL UTILITY LINES ACCORDINGLY.
- G. COORDINATE INSTALLATION OF ALL PLUMBING, PIPING, ETC. WITH ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL, ELECTRICAL, EXISTING AND NEW CONDITIONS, ALL TRADES, ETC.
- H. ALL DOMESTIC WATER BRANCH LINES SHALL HAVE VALVES AT MAINLINES.

Construction Documents

No.	Description	Date



St. Margaret of Scotland
Catholic - Temp Facilities

PLUMBING SITE PLAN

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ASW Project number	20042
Date	11-19-2020
Drawn by	JB
Checked by	TA
P1.01 R1	
Scale	As indicated

18TH STREET

17TH STREET

ENTERPRISE BLVD

DROP OFF

OVERHEAD CANOPY

TEMP. BUILDING HITCH

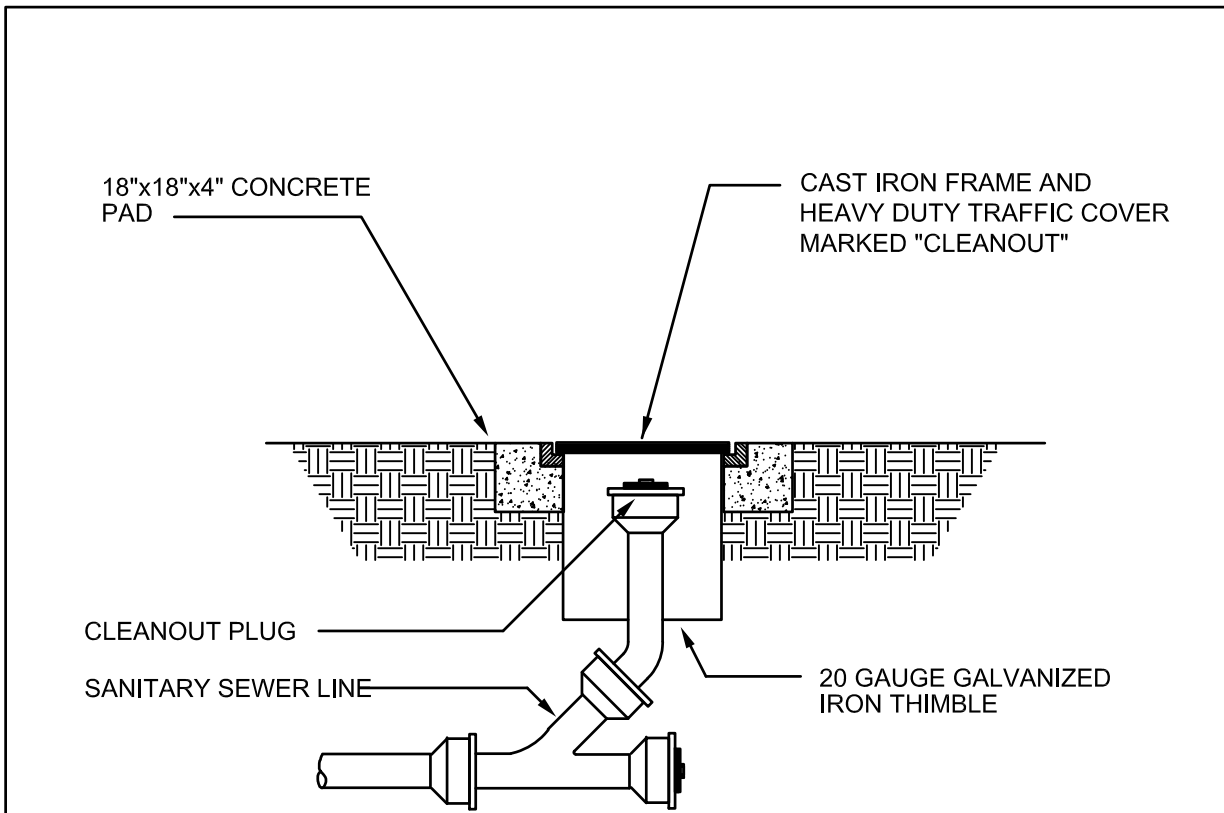
ASSUMED PROP. LINE

1 PLUMBING SITE PLAN
1/16" = 1'-0"



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Project No. 20258



1 EXTERIOR CLEANOUT DETAIL
NO SCALE

PLUMBING SPECIFICATIONS

ALL WORK SHALL BE DONE IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL CODES INCLUDING THE 2015 INTERNATIONAL PLUMBING CODE WITH LOUISIANA AMENDMENTS AND THE STATE SANITARY CODE.

DOMESTIC WATER PIPING AND FITTINGS ABOVE GRADE SHALL BE TYPE L HARD COPPER. PROVIDE 1" FIBERGLASS INSULATION WITH ASJ. INSULATION SHALL MEET 25/50 SMOKE AND FLAME SPREAD REQUIREMENTS. PROVIDE ALUMINUM JACKETS FOR ALL EXTERIOR PIPE AND FITTINGS.

DOMESTIC WATER PIPING ON SITE BELOW GRADE SHALL BE SCH 40 PVC PRESSURE PIPE (ASTM D1785).

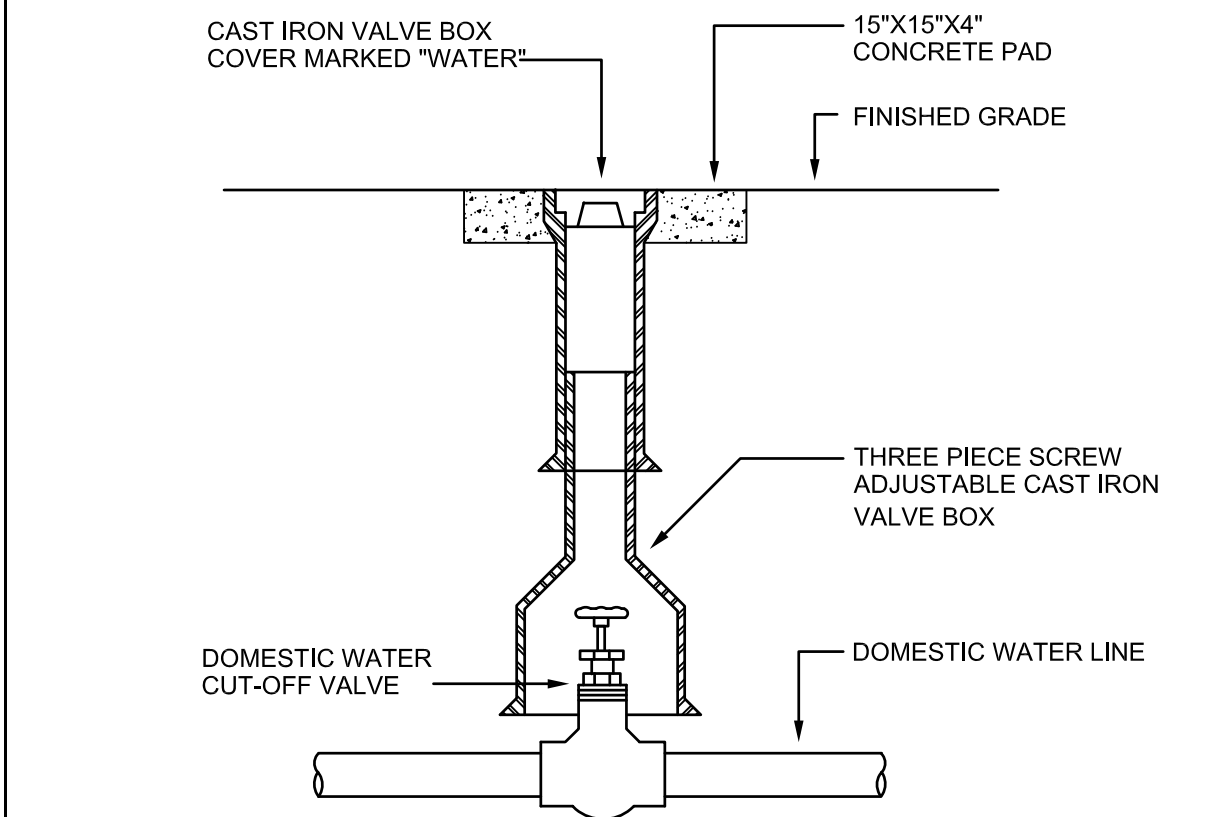
2" - 4" SEWER WASTE AND VENT PIPING AND FITTINGS SHALL BE SCH 40 PVC.

6" - 8" SEWER WASTE PIPING SHALL BE SDR26 PVC.

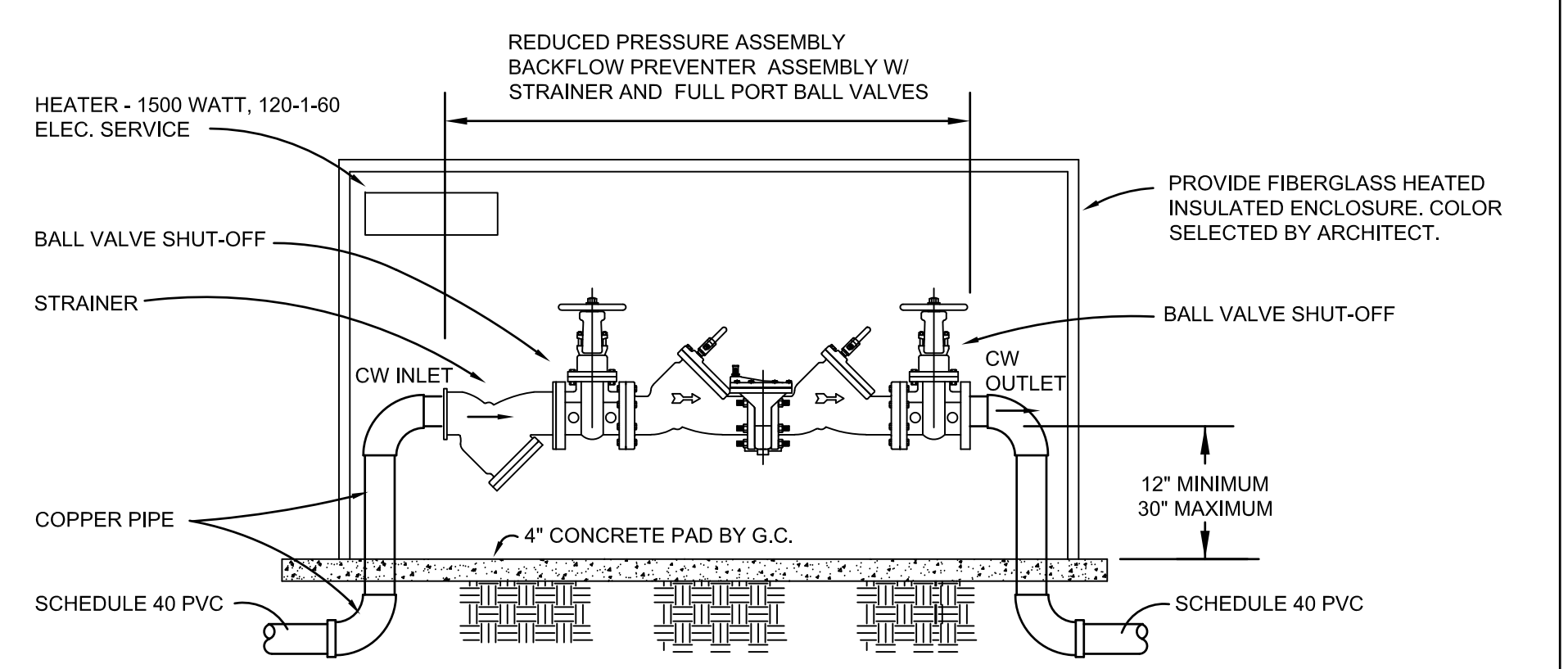
PROVIDE HANGERS TO SUPPORT DOMESTIC WATER AND SEWER WASTE AND VENT PIPING.

ALL FIXTURES IN CONTACT WITH DOMESTIC WATER SHALL BE LEAD FREE.

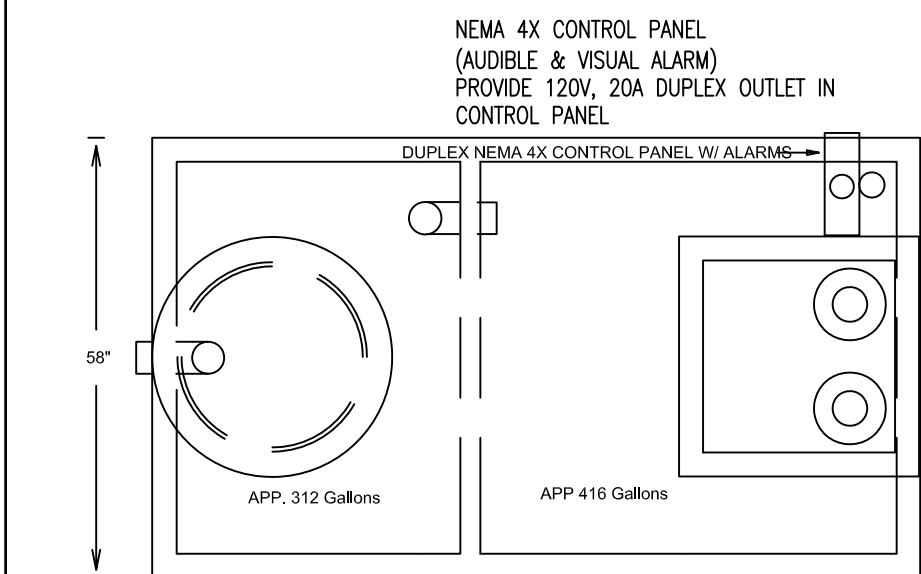
ALL PIPING SHALL BE LABELED WITH FLOW ARROWS.



2 WATER VALVE BOX DETAIL
NO SCALE



3 BACKFLOW PREVENTER DETAIL
NO SCALE



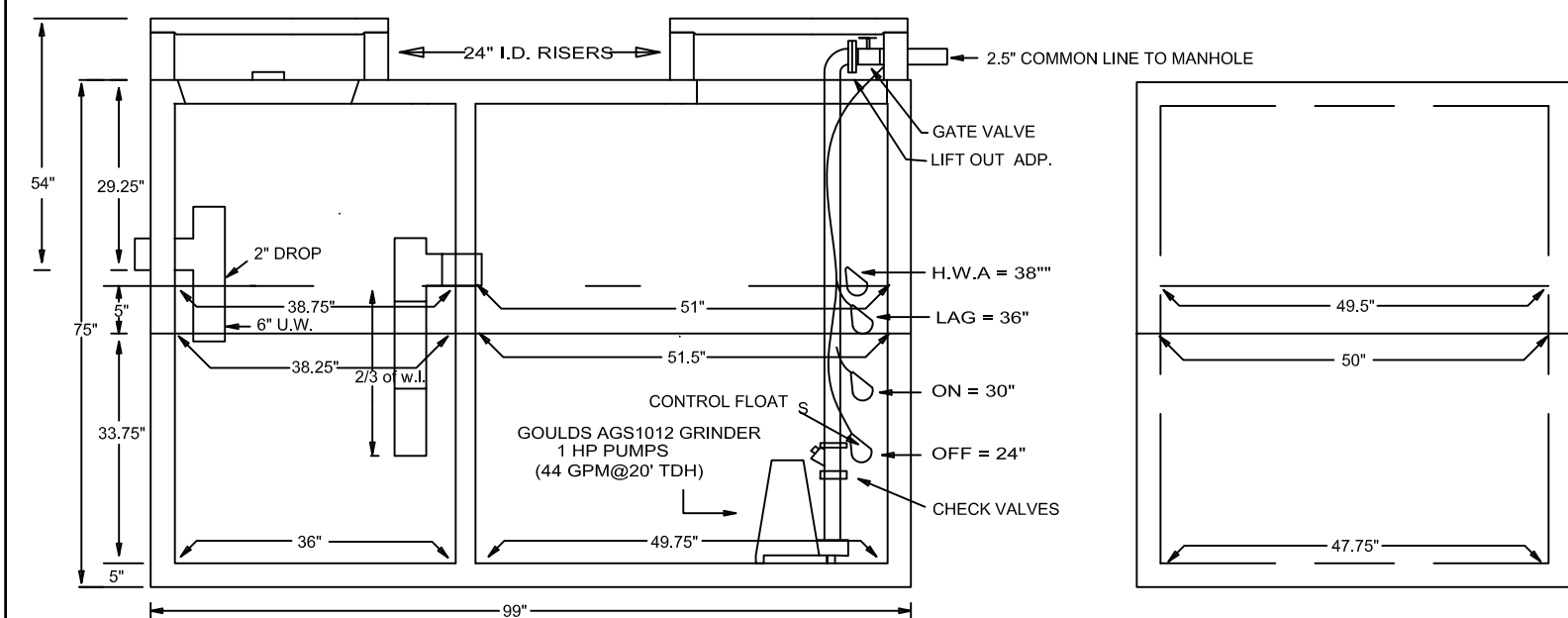
HOOT HEAVY DUTY 312 GALLON TRASH TRAP BUILT ON LIFT STATION

DRAWING NOT TO SCALE

5500 PSI CONCRETE
55 LBS/YARD OF STRUCTURAL STEEL FIBER
1/2" REBAR ON 1" CENTERS EA. WAY
4" WALLS THROUGHOUT
4" INLET

(2) brass quick disconnect couplings,
sch 40 galvanized steel discharge pipes,
(2) cast iron ball type check valves,
(2) bronze gate valves,
(2) 1/2" stainless steel pump lifting cables,
pump slide rail system complete with dual
pipe stainless steel guide rail system
assembly for those installations requiring a
guide rail system,
(2) AGS1012 2HP grinder pumps, duplex
outdoor NEMA 4X control panel,
mechanical level switches,
cast iron pump legs.

PUMPS
Duplex Grinder Pumps
1 HP each,
208v, 1 Phase, 60 Hz,
3500 RPM,
Discharge 2",
44 GPM @ 20' HEAD



4 SEWER TRASH TRAP/LIFT STATION DETAIL
NO SCALE

Construction Documents

No.	Description	Date



St. Margaret of Scotland
Catholic - Temp Facilities

PLUMBING DETAILS

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