

ENERGY DESIGN CRITERIA:

NOTE: UNLESS OTHERWISE NOTED, ALL CODE REFERENCES BELOW ARE FROM THE 2009 IECC

CLIMATE ZONES: 2A AS SHOWN IN TABLE 301.1
FOR BUILDINGS WITH OVERALL WINDOWS AND GLAZED DOOR OPENINGS
TOTALING 10% OR LESS OF THE GROSS ABOVE-GRADE WALL AREA.

HEATING DEGREE DAYS: 2110 COOLING DEGREE DAYS: 3146

R-VALUES BETWEEN FRAMING MEMBERS ARE FROM TABLE 502.2
ROOF: ALL WOOD JOIST / TRUSS: R-30
WALL: WOOD FRAMED: R-13
FLOOR: ALL WOOD JOIST / TRUSS: R-15 + R-11

U-FACTOR FOR WINDOWS: DUAL PANE/ LOW-E GLASS = 0.49
SHGC FOR WINDOWS: DUAL PANE/ LOW-E GLASS = 0.25
U-FACTOR FOR DOORS: STEEL DOOR = 0.20

LIGHTING CONTROLS: BI-LEVEL SWITCHING FOR OFFICE AND / OR CLASSROOM LIGHTING.
PHOTOCELL CONTROLS FOR EXTERIOR LIGHTING.

GENERAL LIGHTING: FLUORESCENT LIGHT WITH T-8 LAMPS & ELECTRONIC BALLAST
EXTERIOR LIGHTING: WALL MOUNTED TWIN TUBE FLUORESCENT LIGHT ON PHOTOCELL

HVAC EFFICIENCY: WALL HUNG ELECTRIC HVAC UNITS: MIN. 9.2 EER
PTAC UNIT - 11.7 EER

SYSTEM CONTROLS: PROGRAMMABLE THERMOSTAT WITH OCCUPANT OVERRIDE PER 503.2.4.1

OUTDOOR AIR VENTILATION RATE OF: 689 CFM PER EQUATION 4-1 AND TABLE 403.3 OF THE 2009 IMC

DUCT INSULATION: WHERE DUCTING IS USED, DUCTS SHALL BE SEPARATED FROM THE
BUILDING EXTERIOR BY A MINIMUM OF R-8 INSULATION.
(NOTE: DUCTING USED BY PALOMAR HAS A MINIMUM R-VALUE OF 5.6, AND
IS CONTAINED WITHIN THE BUILDING ENVELOPE.)

DUCT SEALING: DUCTS ARE TO BE SEALED IN ACCORDANCE WITH 503.2.7

NOTES:

DATA PLATE(S) TO BE INSTALLED ON THE COVER OF THE ELECTRICAL DISTRIBUTION PANEL AS NOTED ON SHEET A-2.

DECALS TO BE INSTALLED ON THE REAR END, ON THE LOWER LEFT-HAND CORNER OF MODULES WITH METAL SIDING.
BUILDINGS WITH SIDINGS WHICH ARE TO BE PAINTED AS A PART OF ROUTINE MAINTENANCE, THE DECALS ARE TO BE
LOCATED ON THE REAR END WALL OF THE MODULE, NEAR THE MATELINE, ABOVE THE SUSPENDED CEILING TILE.

SPRINKLER SYSTEM SHALL BE TESTED IN ACCORDANCE WITH NFPA 13.

FIRE ALARM SYSTEM SHALL BE TESTED IN ACCORDANCE WITH NFPA 72.

TEXAS INDUSTRIALIZED BUILDING CODE COUNCIL

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

DRA No. 7 IBC X IRC

Date: 6/1/16

DRA Signature: *Suzanne M. Alvarado*



**SPECIAL CONDITIONS
AND / OR LIMITATIONS:**

NOTE:
MATERIALS WHICH EQUAL OR EXCEED THOSE SPECIFIED
MAY BE SUBSTITUTED.

NOTE:
BUILDING IS TO BE LOCATED A MINIMUM OF 10 FT.
FROM PROPERTY LINE OR ASSUMED PROPERTY LINE.

PORTABLE FIRE EXTINGUISHERS TO BE PROVIDED AND INSTALLED
BY OWNER

NOTE:
FIRE ALARM TO BE INSTALLED BY OTHERS.

NOTE:
ACCESSIBLE DRINKING FOUNTAIN WILL BE PROVIDED ON SITE
BY OWNER.

NOTE:
SERVICE SINK TO BE PROVIDED IN ADJACENT BLDG.

NOTE:
BUILDING MUST BE LOCATED WITH IN 500 FT. OF AN EXISTING
BUILDING PROVIDING TOILET FACILITIES CAPABLE OF SERVICING
THE COMBINED OCCUPANT LOAD OF THE EXISTING BUILDING(S)
IN ADDITION TO THIS BUILDING.

NOTE:
BUILDING IS TO BE PROVIDED WITH AN AUTOMATIC
SPRINKLER SYSTEM DESIGNED AND INSTALLED BY A
CONTRACTOR LICENSED BY THE :
TEXAS DEPARTMENT OF INSURANCE:

ACCESSIBILITY REQUIREMENTS:

NOTE:
HANDICAP ACCESSIBLE RAMP TO BE INSTALLED
BY OTHERS IN ACCORDANCE WITH THE A.D.A.
GUIDELINES.

DESIGN CRITERIA:

CODES: 2009 IBC
2009 IPC
2009 IMC
2011 NEC

2009 IECC
2012 TAS



06/01/16

OCCUPANCY CLASSIFICATION: B
OCCUPANCY CATEGORY: II
CONSTRUCTION TYPE: V-B
APPLIANCE FUEL TYPE: NONE

DESIGN LOADS:

ROOF LIVE LOAD: 20 PSF
FLOOR LIVE LOAD: 50 PSF
CONCENTRATED FLOOR LOAD: 2000 LBS

GROUND SNOW LOAD: 5 PSF
ROOF SNOW LOAD: 5 PSF
3 SECOND GUST WIND SPEED: 90 MPH
EXPOSURE: C

SEISMIC DESIGN CATEGORY: A
BUILDING AREA: 6150 S.F.
OCCUPANT LOAD: 65
OCCUPANT AGE GROUP: ADULT 18+ YEARS

DRAWING INDEX: SHEET

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SUSTAINMENT BUILDING

S/N:

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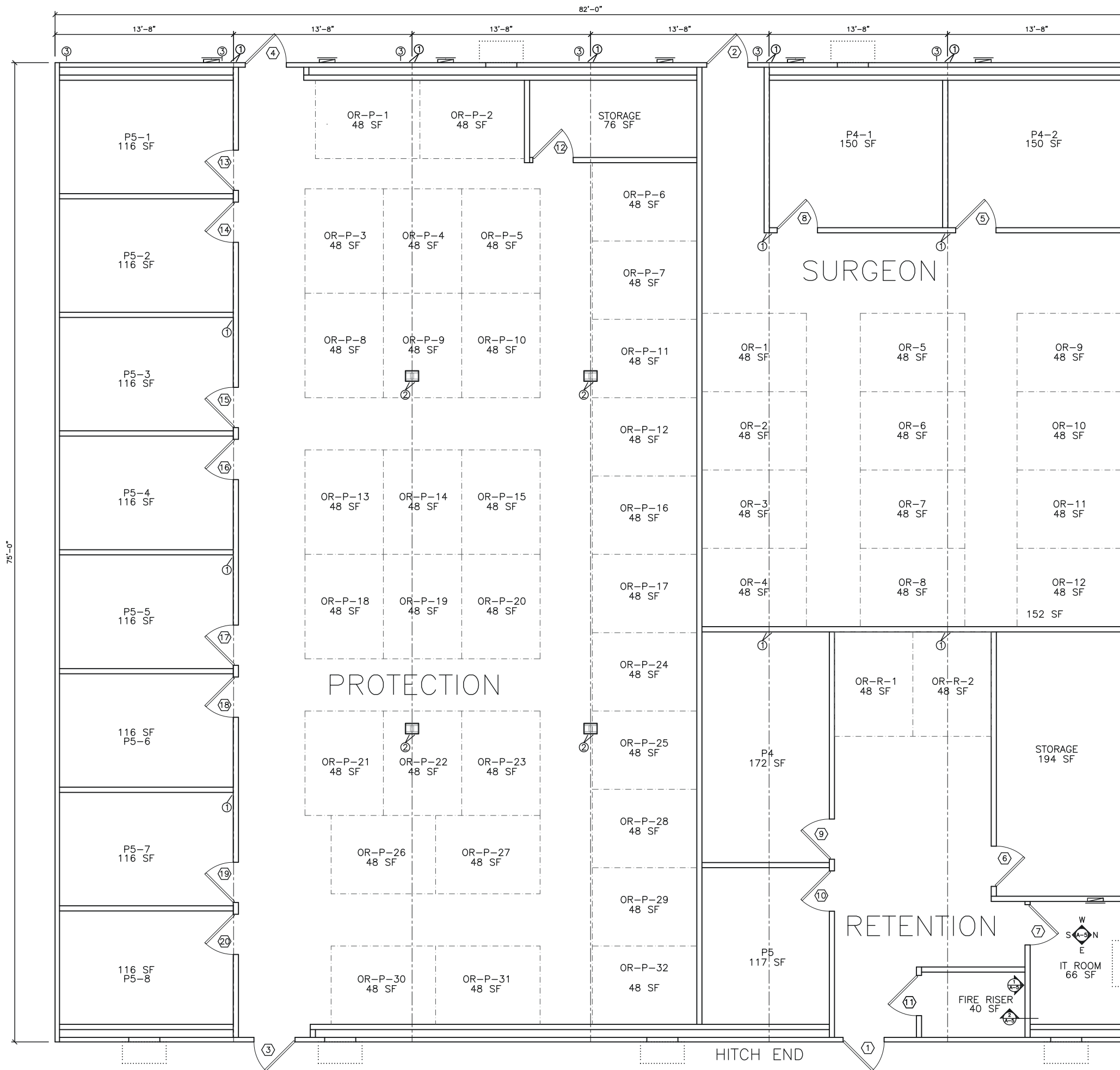
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DRAWN BY: SGD
CHECK BY:

COVER SHEET / SPECIFICATIONS
SUSTAINMENT BUILDING
FT. HOOD, TEXAS
7582 SUSTAINMENT
S/N:

SHEET No.

A8-1



- * - DENOTES SHEAR WALL LOCATION
- ① - DENOTES 3-EA. 2x4's AND 1-EA. 3" WIDE x 26ga. STRAP AT MATE-LINE FASTENED W/ 11 - 1 1/2" x .148 NAILS EACH END OF EACH STRAP.
- ② - DENOTES 3-EA. 2x6's AND 1-EA. 3" WIDE x 26ga. STRAP AT MATE-LINE FASTENED W/ 11 - 1 1/2" x .148 NAILS EACH END OF EACH STRAP.
- ③ - DENOTES TDLR LABEL LOCATION

Texas Industrialized
Building Code Council

IBC IRC

Approval Date:
6/1/16

APPROVED
PFS CORPORATION

IHdra- 7

① FLOOR PLAN
scale: 1/8" = 1'-0"

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No.	DESCRIPTION	BY	DATE

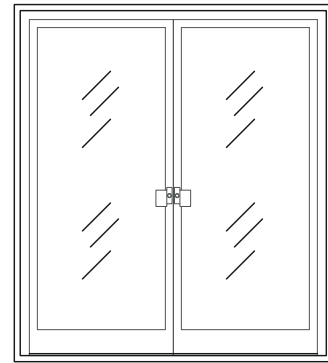
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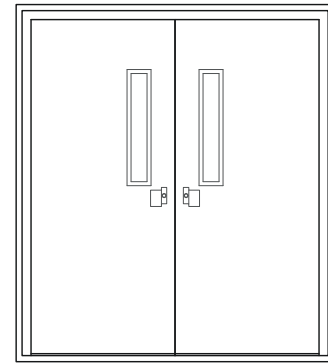
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A8-2

EXTERIOR DOORS

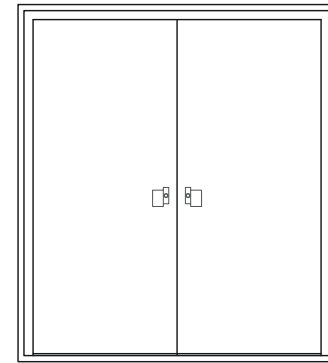
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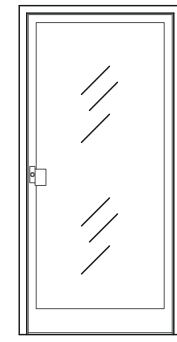
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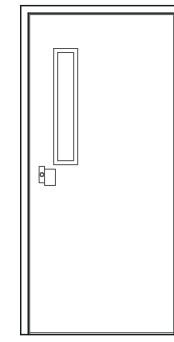
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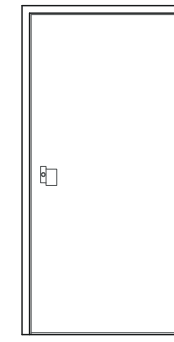
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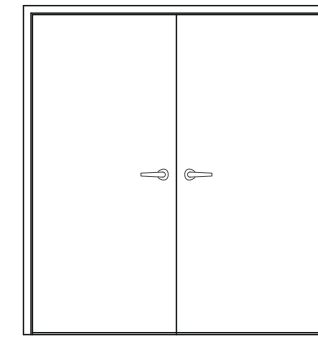
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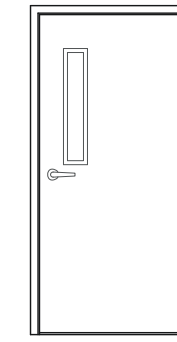
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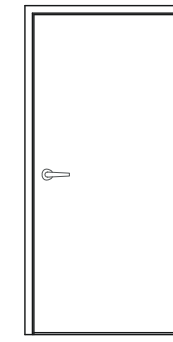
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I

DOOR SCHEDULE											
NUMBER	STYLE	SIZE	FRAME	FINISH	DOOR	FINISH	SPECIAL	HARDWARE	KEYING	GLAZING	NUMBER
1	E	3/0x6/8	KD 16ga HM	PAINTED	18ga STEEL	PAINTED	NONE	PULL / PANIC / CLOSER	KEYED TO RETENTION	6x27 TEMPERED	1
2	E	3/0x6/8	KD 16ga HM	PAINTED	18ga STEEL	PAINTED	NONE	PULL / PANIC / CLOSER	KEYED TO SURGEON	6x27 TEMPERED	2
3	E	2-3/0x6/8	KD 16ga HM	PAINTED	18ga STEEL	PAINTED	NONE	PULL / PANIC / CLOSER	KEYED TO PROTECTION	6x27 TEMPERED	3
4	E	3/0x6/8	KD 16ga HM	PAINTED	18ga STEEL	PAINTED	NONE	PULL / PANIC / CLOSER	KEYED TO PROTECTION	6x27 TEMPERED	4
5	I	3/0x6/8	KD 18ga STEEL	PF BRONZETONE	SOLID CORE WOOD	PREFIN. BIRCH	NONE	LEVER / KEYED	KEYED TO SURGEON	NONE	5
6	I	3/0x6/8	KD 18ga STEEL	PF BRONZETONE	SOLID CORE WOOD	PREFIN. BIRCH	NONE	LEVER / KEYED	KEYED TO RETENTION	NONE	6
7	I	3/0x6/8	KD 18ga STEEL	PF BRONZETONE	SOLID CORE WOOD	PREFIN. BIRCH	NONE	LEVER / KEYED	KEYED TO RETENTION	NONE	7
8	I	3/0x6/8	KD 18ga STEEL	PF BRONZETONE	SOLID CORE WOOD	PREFIN. BIRCH	NONE	LEVER / KEYED	KEYED TO SURGEON	NONE	8
9	I	3/0x6/8	KD 18ga STEEL	PF BRONZETONE	SOLID CORE WOOD	PREFIN. BIRCH	NONE	LEVER / KEYED	KEYED TO RETENTION	NONE	9
10	I	3/0x6/8	KD 18ga STEEL	PF BRONZETONE	SOLID CORE WOOD	PREFIN. BIRCH	NONE	LEVER / KEYED	KEYED TO RETENTION	NONE	10
11	I	3/0x6/8	KD 18ga STEEL	PF BRONZETONE	SOLID CORE WOOD	PREFIN. BIRCH	NONE	LEVER / KEYED	KEYED TO RETENTION	NONE	11
12	I	3/0x6/8	KD 18ga STEEL	PF BRONZETONE	SOLID CORE WOOD	PREFIN. BIRCH	NONE	LEVER / KEYED	KEYED TO PROTECTION	NONE	12
13	I	3/0x6/8	KD 18ga STEEL	PF BRONZETONE	SOLID CORE WOOD	PREFIN. BIRCH	NONE	LEVER / KEYED	KEYED TO PROTECTION	NONE	13
14	I	3/0x6/8	KD 18ga STEEL	PF BRONZETONE	SOLID CORE WOOD	PREFIN. BIRCH	NONE	LEVER / KEYED	KEYED TO PROTECTION	NONE	14
15	I	3/0x6/8	KD 18ga STEEL	PF BRONZETONE	SOLID CORE WOOD	PREFIN. BIRCH	NONE	LEVER / KEYED	KEYED TO PROTECTION	NONE	15
16	I	3/0x6/8	KD 18ga STEEL	PF BRONZETONE	SOLID CORE WOOD	PREFIN. BIRCH	NONE	LEVER / KEYED	KEYED TO PROTECTION	NONE	16
17	I	3/0x6/8	KD 18ga STEEL	PF BRONZETONE	SOLID CORE WOOD	PREFIN. BIRCH	NONE	LEVER / KEYED	KEYED TO PROTECTION	NONE	17
18	I	3/0x6/8	KD 18ga STEEL	PF BRONZETONE	SOLID CORE WOOD	PREFIN. BIRCH	NONE	LEVER / KEYED	KEYED TO PROTECTION	NONE	18
19	I	3/0x6/8	KD 18ga STEEL	PF BRONZETONE	SOLID CORE WOOD	PREFIN. BIRCH	NONE	LEVER / KEYED	KEYED TO PROTECTION	NONE	19
20	I	3/0x6/8	KD 18ga STEEL	PF BRONZETONE	SOLID CORE WOOD	PREFIN. BIRCH	NONE	LEVER / KEYED	KEYED TO PROTECTION	NONE	20

KEYING NOTES
 1) ALL OFFICE DOOR KEYS ALSO OPEN EXTERIOR DOOR TO THAT AREA
 2) PROVIDE MASTER KEY FOR EACH INDIVIDUAL AREA
 3) PROVIDE GRANDMASTER FOR ENTIRE PROJECT



05/17/2016

(Structural Aspects Only)

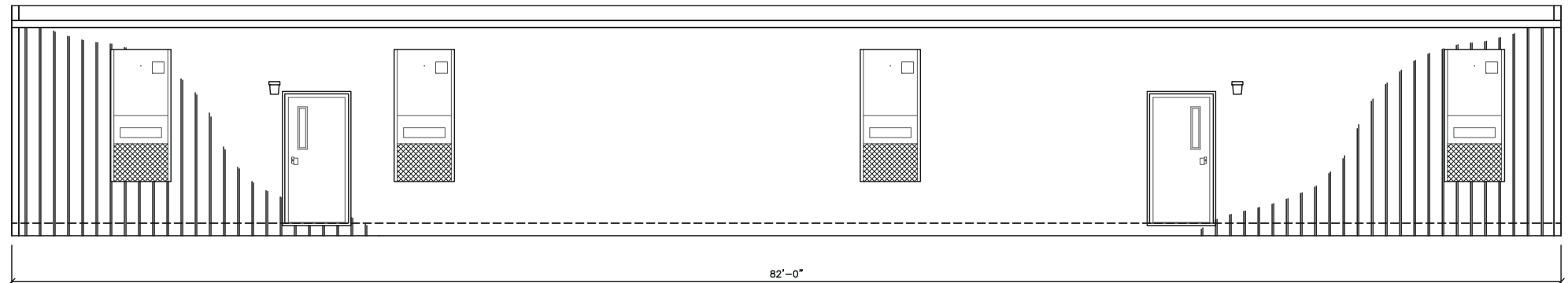
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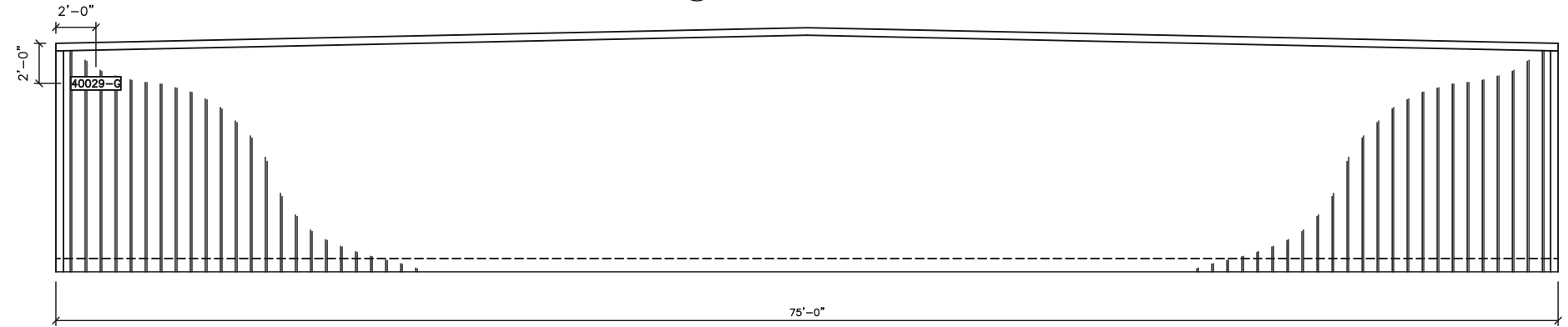
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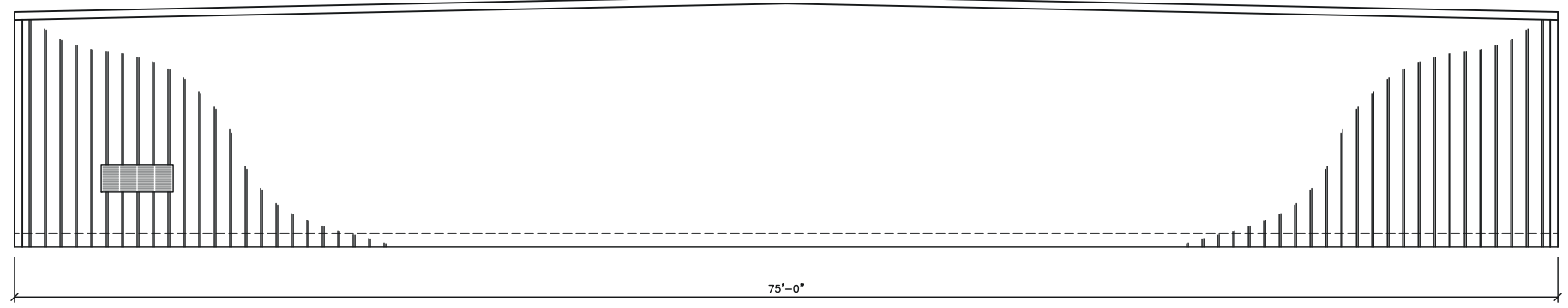
SUSTAINMENT BUILDING	
FT. HOOD, TEXAS	
SCHEDULES	
FILE: 7582 SUSTAINMENT	
SERIAL #: 0000	



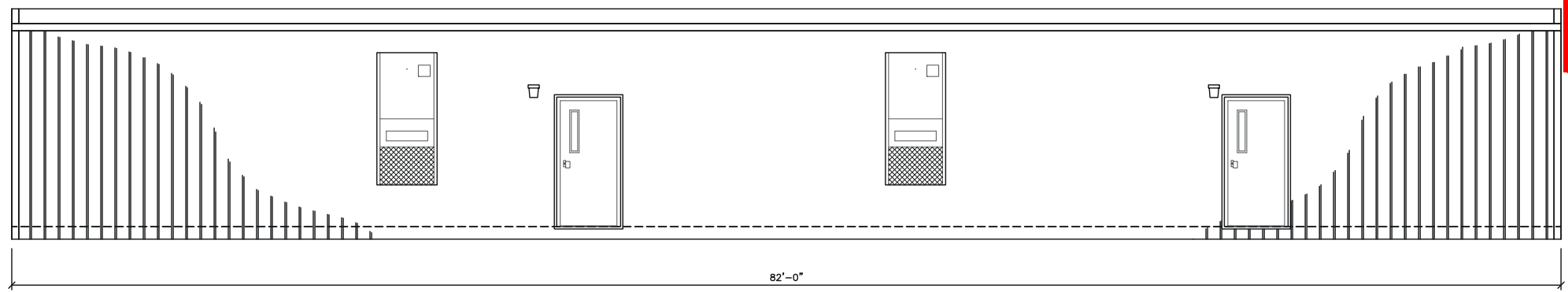
④ EAST ELEVATION
scale: 1/8" = 1'-0"



② SOUTH ELEVATION
scale: 1/8" = 1'-0"



① NORTH ELEVATION
scale: 1/8" = 1'-0"



③ WEST ELEVATION
scale: 1/8" = 1'-0"

BUILDING IDENTIFICATION SIGNAGE NOTES:
 1) SIGN TO BE 8" HIGH x 30" WIDE
 2) LETTERS / NUMBERS TO BE 7" TALL
 3) LETTERS / NUMBERS TO BE HELVETICA FONT
 4) SIGN TO BE WHITE METAL WITH RED LETTERS / NUMBERS
 5) MOUNT SIGN ON SOUTHWEST CORNER OF SOUTH SIDE
 6) MOUNT SIGN 24" DOWN FROM EAVE, 24" IN FROM CORNER
 7) INSTALL ONE SIGN PER BUILDING

NOTES:
 1) STEEL SIDING PANELS ARE MIN. 0.0150" THICK BASE METAL CONFORMING TO TABLE 1405.2 OF THE 2009 IBC.
 2) THERMOSET SINGLE-PLY MEMBRANE ROOF CONFORMING TO SECTION 1507.12.



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No.	DESCRIPTION	BY	DATE

DATE:	03/15/2016
SCALE:	1/8" = 1'-0"
PLOT SCALE:	1:1
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SUSTAINMENT BUILDING
 FT. HOOD, TEXAS
 EXTERIOR ELEVATIONS
 FILE: 7582 SUSTAINMENT
 SERIAL #: 0000

SHEET No.
A8-3

- ① CMU BLOCK PIER ON 9" THICK CONCRETE SLAB
- ② M12x11.8 FRAME RAILS CONFORMING TO ASTM A529-50
- ③ WOVEN POLYETHYLENE BOTTOM BOARD
- ④ SKIRTING INSTALLED ON SITE AFTER UNIT ASSEMBLY
- ⑤ 2-2x8 #3 SYP MIN. FLOOR RIM JOISTS
- ⑥ 2x8 # 2 SYP MIN. FLOOR JOISTS AT 16"o.c.
- ⑦ R-15 + R-11 INSULATION IN FLOOR CAVITY
- ⑧ 3/4" T&G ADVANTECH DECKING
- ⑨ VINYL COMPOSITION FLOOR TILE
- ⑩ SIDEWALL STRAPPED TO FLOOR WITH 1 1/2" x 30ga GALV. STRAPS AT 48"o.c. FASTENED WITH 6-16ga STAPLES EACH END OF EACH STRAP
- ⑪ 2x4 #3 SYP MIN. BOTTOM PLATE
- ⑫ R-13 INSULATION IN EXTERIOR WALLS
- ⑬ 7/16" RATED SHEATHING OSB UNDER A WEATHER-RESISTIVE BARRIER CONFORMING TO 1404.2 OF THE 2009 IBC FASTENED WITH 8d NAILS AT 6"o.c. AT EDGES, 12"o.c. IN THE FIELD
- ⑭ 2x4 #2 SYP MIN. STUDS AT 16"o.c.
- ⑮ STEEL SIDING PANELS CONFORMING TO TABLE 1405.2 OF THE 2009 IBC
- ⑯ R-11 INSULATION IN INTERIOR WALLS
- ⑰ 2x4 #2 SYP MIN. AT 16"o.c. INTERIOR WALLS
- ⑱ 2-2x4 #3 SYP MIN. EXTERIOR WALL TOP PLATES
- ⑲ VINYL CLAD 5/8" TYPE 'X' GYPSUM WALLBOARD.
- ⑳ SUSPENDED GRID ACOUSTIC CEILING
- ㉑ POLY NETTING ON BOTTOM OF RAFTERS
- ㉒ 2-2x4 #3 SYP MIN. INTERIOR WALL TOP PLATES

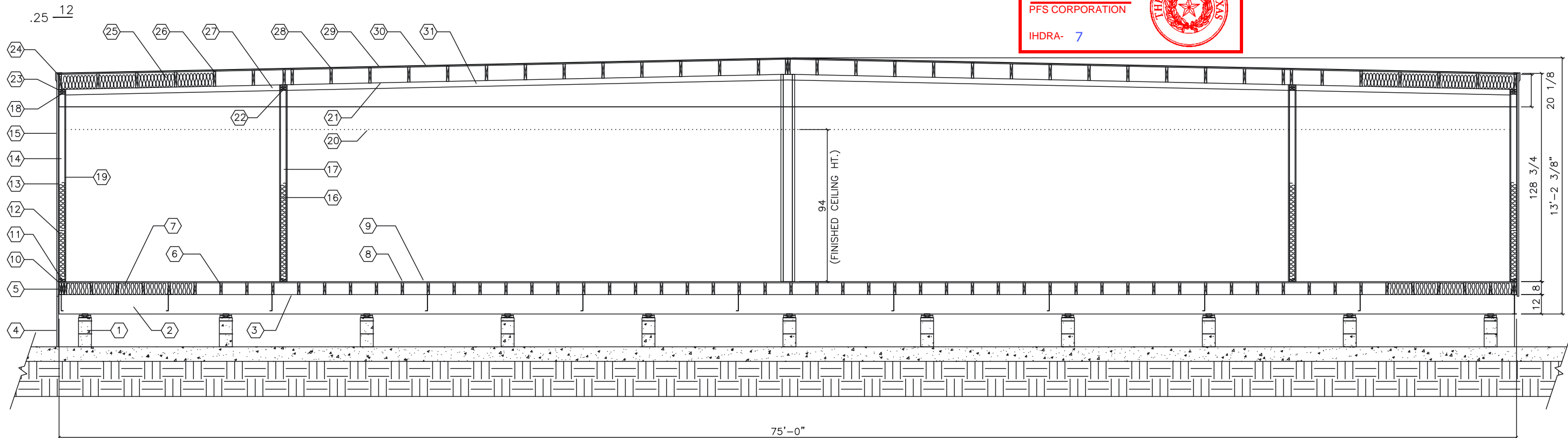
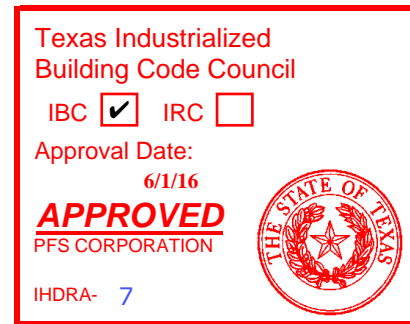
- ㉓ ROOF STRAPPED TO SIDEWALL WITH 1 1/2" x 30ga GALV. STRAPS AT 48"o.c. FASTENED WITH 6-16ga STAPLES EACH END OF EACH STRAP
- ㉔ 2x10 #2 SYP MIN. ROOF RIM JOIST
- ㉕ R-30 INSULATION IN RAFTER CAVITY
- ㉖ 2x10 #2 SYP MIN RAFTERS AT 24"o.c.
- ㉗ FOUR LAYER SOLID PLYWOOD RIDGE BEAM, EACH LAYER OF 3/4", 5-LAYER, 5-PLY GROUP 1 SPECIES PLYWOOD. BEAM IS CONSTRUCTED PER THE APA "DESIGN AND FABRICATION OF ALL-PLYWOOD BEAMS" SUPPLEMENT 5
- ㉘ RAFTERS STRAPPED TO RIDGE BEAM WITH 1 1/2" x 30ga STRAP FASTENED WITH 6-16ga STAPLES EACH END OF EACH STRAP.
- ㉙ 5/8" FRC, CLASS "C" RATED SHEATHING, FASTENED WITH 8d NAILS AT 4"o.c. EDGES AND 8"o.c. FIELD
- ㉚ THERMOSET SINGLE-PLY MEMBRANE ROOF COMPLYING WITH 2009 IBC 1507.12. (ESR 1463)
- ㉛ 2x4 LEDGER FASTENED TO RIDGE BEAM W/3-16d NAILS EACH RAFTER LOCATION OR SIMPSON MMLU-26 JOIST HANGER FASTENED WITH 4-1 1/2" x 8d NAILS TO BEAM AND 2-1 1/2" x 8d NAILS TO RAFTER

NOTES:

1. CRAWL SPACE TO BE VENTILATED IN ACCORDANCE WITH 2009 INTERNATIONAL BUILDING CODE SECT. 1203.3.2 INSTALL SO AS TO PROVIDE CROSS-VENTILATION OF CRAWL SPACE. INSTALL MIN. 18" x 24" ACCESS PANEL IN SKIRTING.
2. BLOCK HEIGHTS SHOWN ARE TYPICAL. ANY BLOCK STACKS, OTHER THAN AT MATELINES, REQUIRING MORE THAN THREE 8" x 8" x 16" BLOCKS MUST BE DOUBLED. THIS DOES NOT CHANGE ANCHORING LOCATIONS OR QUANTITIES.
3. FRONT CROSS-MEMBER IS FULL DEPTH I-BEAM (SAME AS CHASSIS) HITCH / COUPLER IS VENTURE OR EQUIVALENT 30,000# MIN. RATED TIRES ARE 8 x 14.5, 8-ply, 2805# MIN LOAD RATING FRAME PAINT IS EMULSION BASE PAINT OUTRIGGERS AND U-CHANNEL CROSS-MEMBERS ARE 14 ga. MIN. OUTRIGGER SIZES: 11'-10" FLOOR - 7" x 16" OUTRIGGER
4. METAL ROOF AND WALL PANELS TO BE FASTENED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR THE APPROPRIATE WIND SPEED FOR THE BUILDINGS INSTALLATION LOCATION (SEE SHEET A-1).



05/17/2016



PRODUCTION HEIGHT: 13'-9"
TRANSPORTATION HEIGHT: 14'-11"

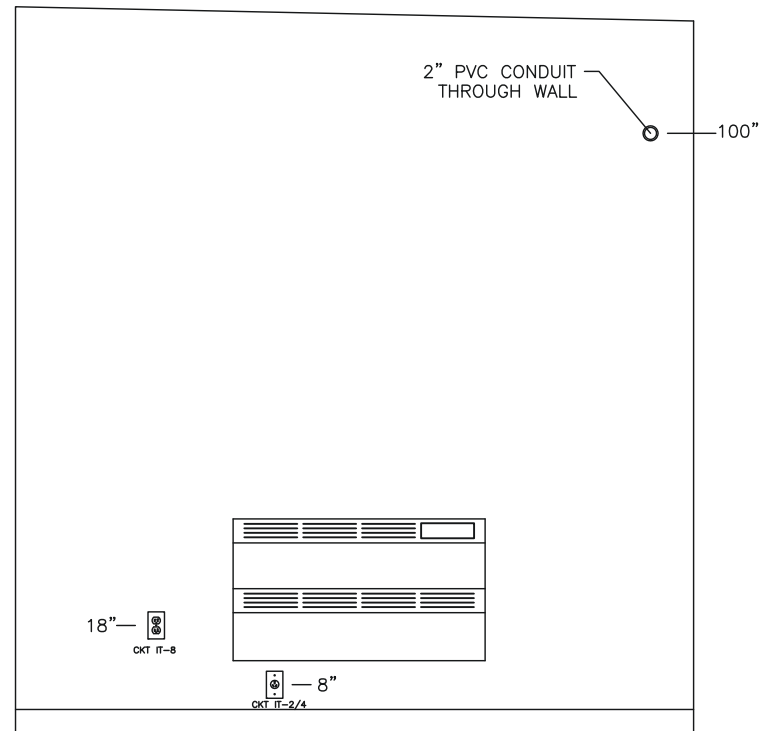
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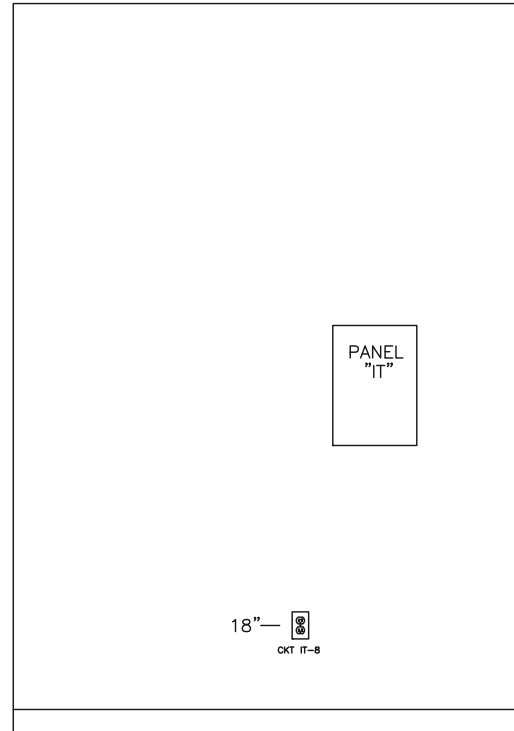
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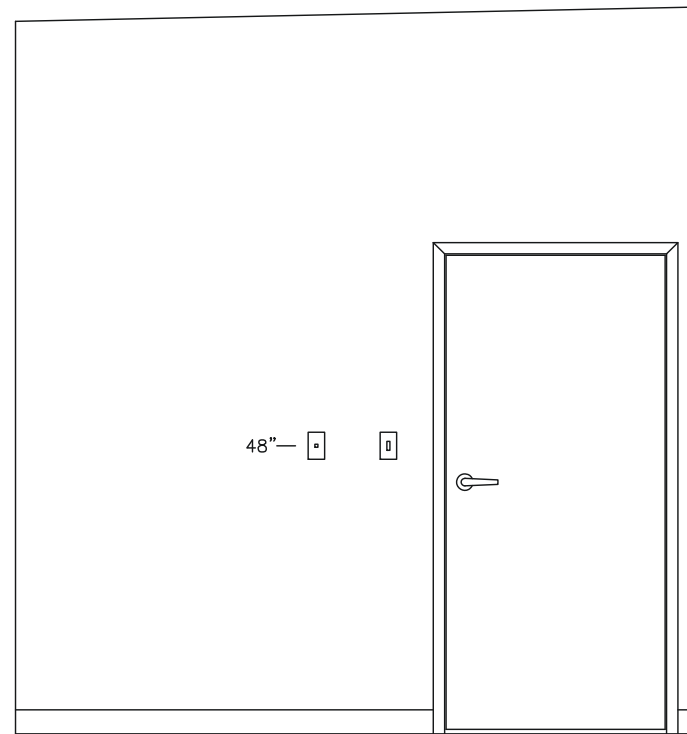
SUSTAINMENT BUILDING
FT. HOOD, TEXAS
CROSS SECTION
FILE: 7582 SUSTAINMENT
SERIAL #: 0000



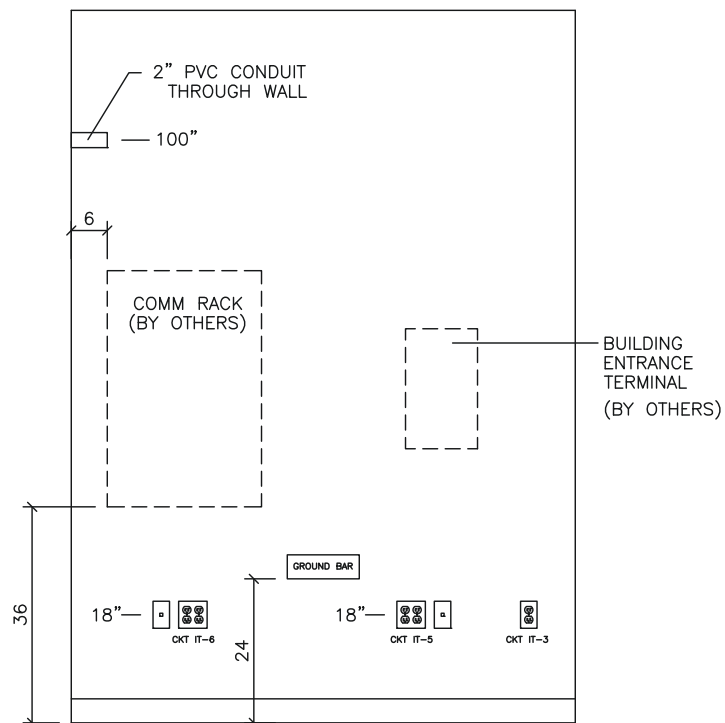
(E) IT ROOM - NORTH



(N) IT ROOM - WEST



(W) IT ROOM - SOUTH



(S) IT ROOM - EAST

REFERENCE DETAIL 1 ON SHEET T500 FOR TELECOMMUNICATION RACK WALL DETAIL


Texas Industrialized
Building Code Council

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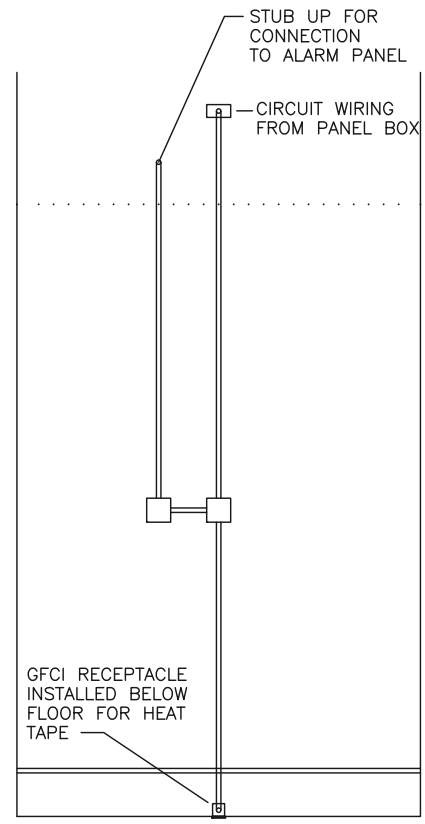
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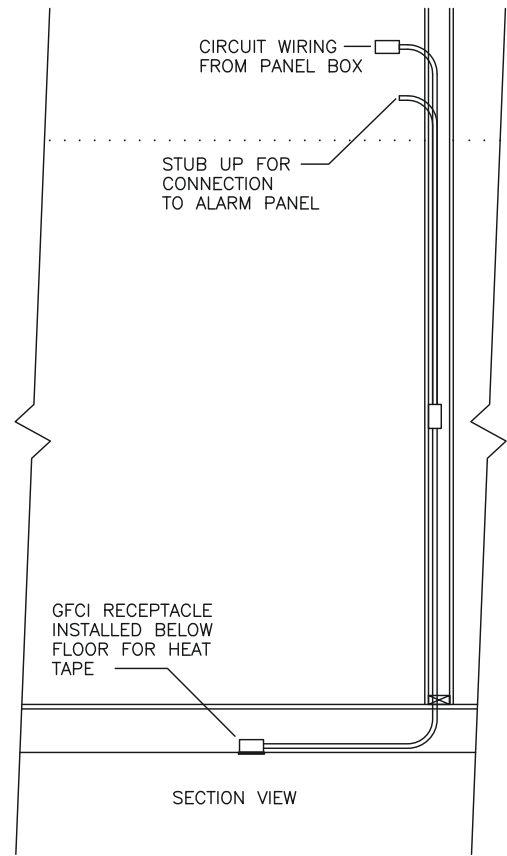



05/17/2016
(Structural
Aspects Only)



ELEVATION VIEW

(1) FIRE RISER ROOM - NORTH WALL



SECTION VIEW

(2) FIRE RISER ROOM - NORTH WALL

(1) **INTERIOR ELEVATIONS**
scale: 3/8" = 1'-0"

MODULAR STRUCTURAL
CONSULTANTS LLC
9720 COIT RD. STE. 220-150
PLANO, TEXAS 75025-9833
PHONE: 469-298-9386
TX. REGISTRATION # F-15892

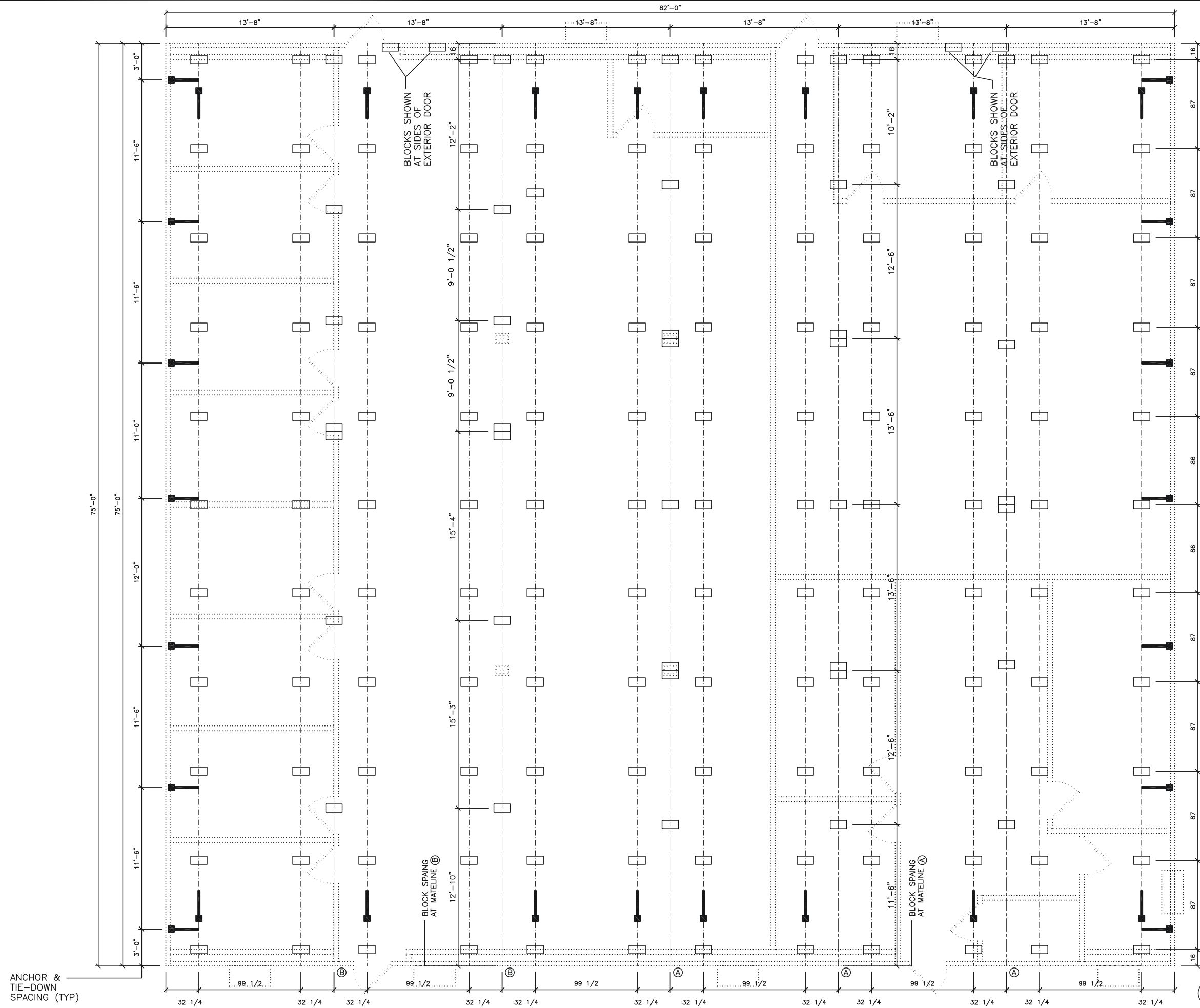
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505 N. I-30E, 78115
PH: 469-727-0727

No.	DESCRIPTION	BY	DATE

DATE:	04/06/2016
SCALE:	3/8" = 1'-0"
PLOT SCALE:	1:1
DRAWN BY:	SGD
CHECKED BY:	

SUSTAINMENT BUILDING FT. HOOD, TEXAS INTERIOR ELEVATIONS FILE: 7582 SUSTAINMENT SERIAL #: 0000
--

SHEET No.
A8-5



BLOCK SPACING AT I-BEAMS (TYPICAL)



05/17/2016

- NOTES:**
1. BLOCK SPACING MAY VARY DUE TO AXLE HANGERS OR OTHER STRUCTURAL OBSTRUCTIONS.
 2. BUILDING IS TO BE INSTALLED ON A 9" THICK REINFORCED CONCRETE PAD. BASE PADS AT PIER STACKS ARE NOT REQUIRED.
 3. BLOCKS MAY BE ADDED UNDER SIDES OF DOORS AS NECESSARY FOR PROPER DOOR ADJUSTMENT.
 4. ASSUMED SOIL BEARING PRESSURE IS 2500 PSF.

Texas Industrialized Building Code Council

IBC IRC

Approval Date: 6/1/16

APPROVED

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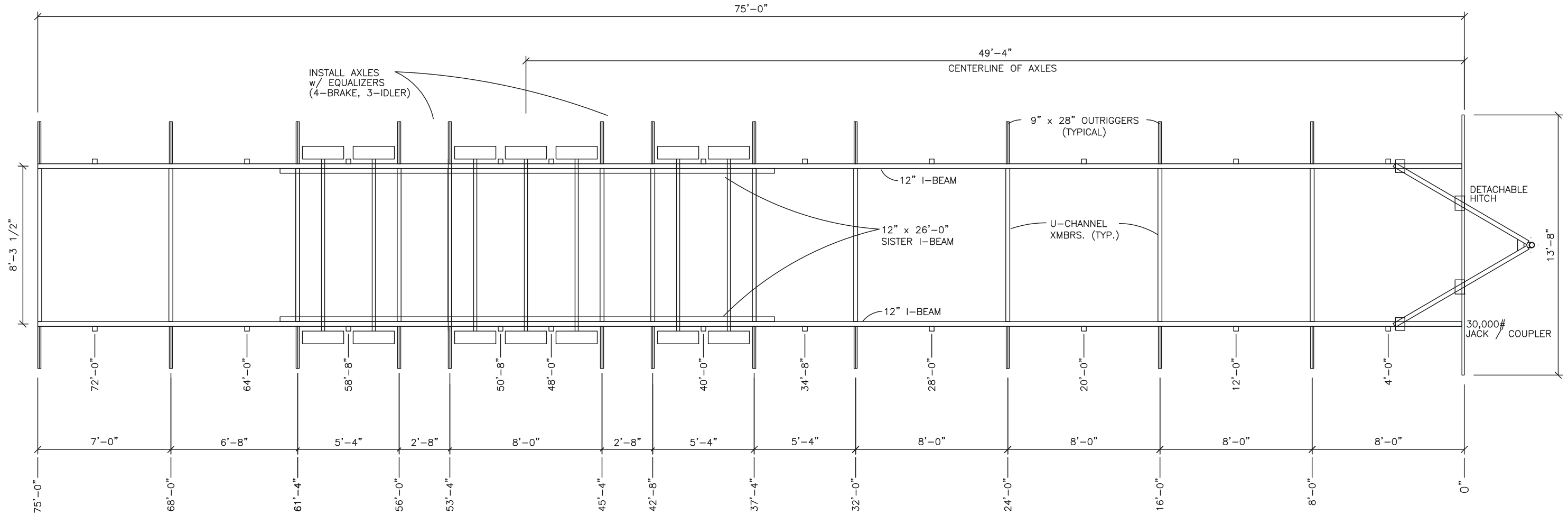
No.	DESCRIPTION	BY	DATE

DATE:	12/29/2015
SCALE:	1/8" = 1'-0"
PLOT SCALE:	1:1
DRAWN BY:	SGD
CHECKED BY:	

SUSTAINMENT BUILDING
 FT. HOOD, TEXAS
 BLOCKING & TIE-DOWN LAYOUT
 FILE: 7582 SUSTAINMENT
 SERIAL #: 0000



05/17/2016



INSTALL AXLES
w/ EQUALIZERS
(4-BRAKE, 3-IDLER)

NOTES:
FRONT CROSS-MEMBER IS FULL DEPTH I-BEAM (SAME AS CHASSIS)
HITCH / COUPLER IS VENTURE OR EQUIVALENT 30,000# MIN. RATED
TIRES ARE 8 x 14.5, 8-ply, 2805# MIN LOAD RATING
FRAME PAINT IS EMULSION BASED
OUTRIGGERS AND U-CHANNEL CROSS-MEMBERS ARE 14 ga. MIN.


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1 CHASSIS LAYOUT
scale: 1/8" = 1'-0"

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TX. REGISTRATION # F-15892

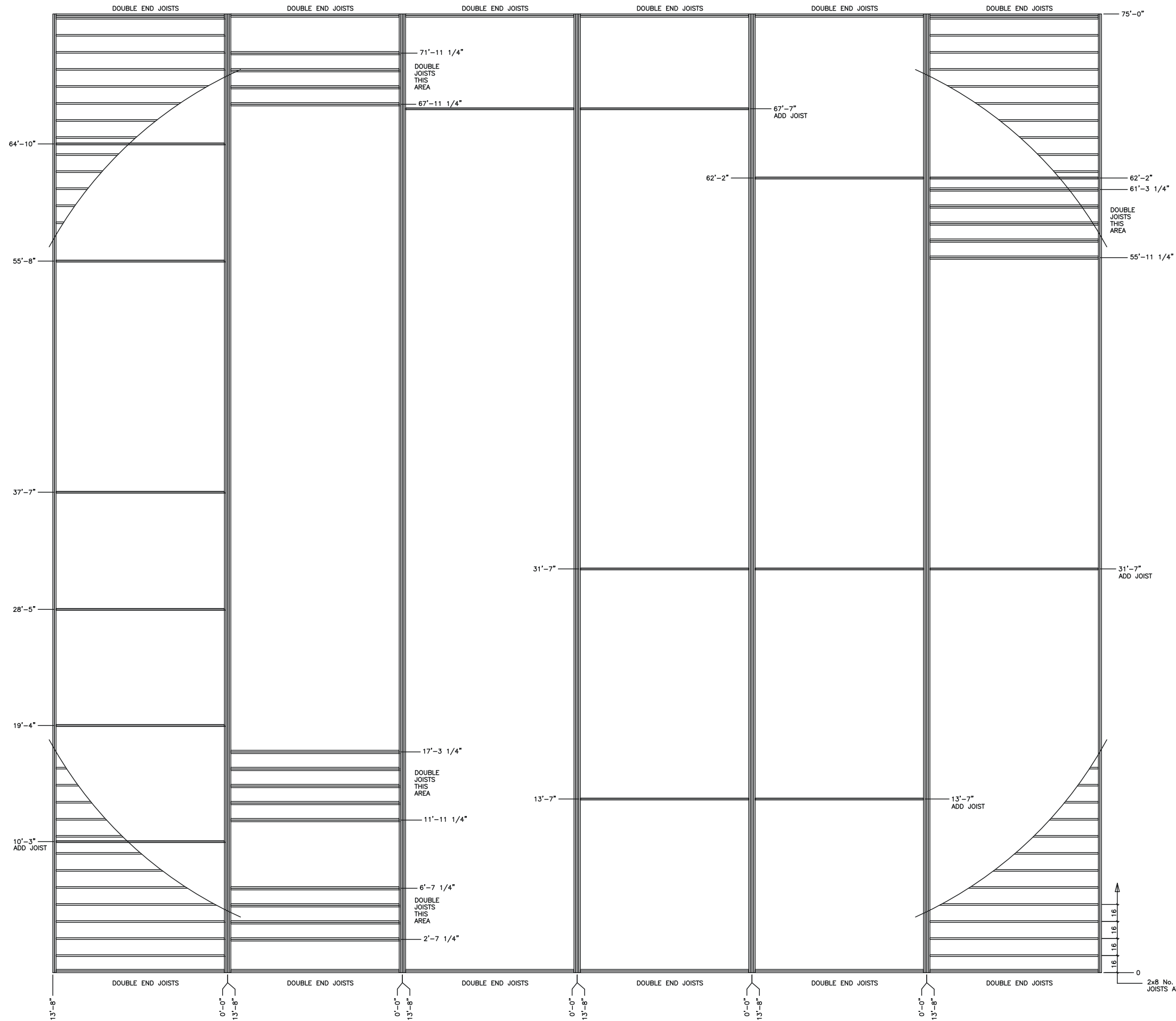
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PH: 469-727-0727

No.	DESCRIPTION	BY	DATE

DATE:	MM/DD/YYYY
SCALE:	X/X = 1'-0"
PLOT SCALE:	1:1
DRAWN BY:	XYZ
CHECKED BY:	

SUSTAINMENT BUILDING
FT. HOOD, TEXAS
CHASSIS LAYOUT
FILE: 7582 SUSTAINMENT
SERIAL #: 0000

SHEET No.
S8-2



05/17/2016

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 IBC IRC
 Approval Date: 6/1/16
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2x8 No. 2 SYP MIN. FLOOR JOISTS AT 16"o.c (TYPICAL)

1 FLOOR FRAMING LAYOUT
 scale: 1/8" = 1'-0"

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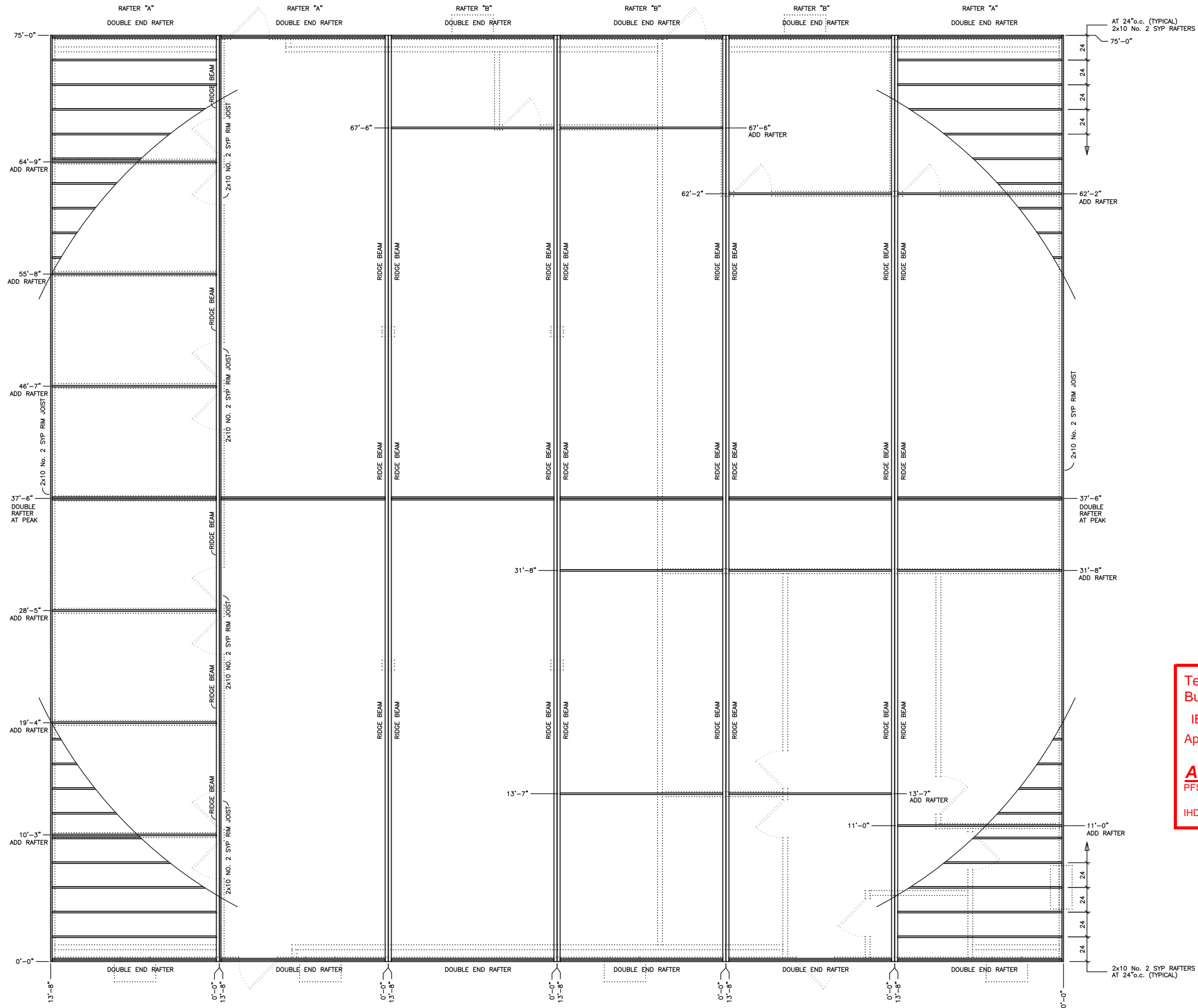
YURIANTO YURIANTO
 LICENSED PROFESSIONAL ENGINEER
 116188

MODULAR STRUCTURAL CONSULTANTS LLC
 9720 COIT RD. STE. 220-150
 PLANO, TEXAS 75025-5833
 PHONE: 469-298-9386
 TX. REGISTRATION # F-15892

No.	DESCRIPTION	BY	DATE

DATE:	05/13/2016
SCALE:	1/8" = 1'-0"
PLOT SCALE:	1:1
DRAWN BY:	SGD
CHECKED BY:	

SUSTAINMENT BUILDING
FT. HOOD, TEXAS
FLOOR FRAMING LAYOUT
FILE: 7582 SUSTAINMENT
SERIAL #: 0000



05/17/2016

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PH: 469-727-0727

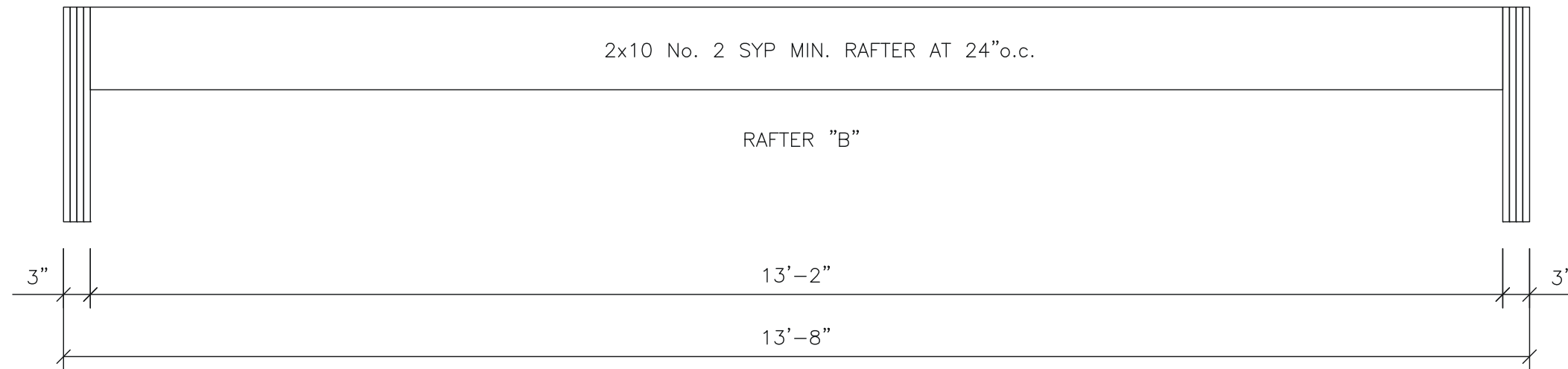
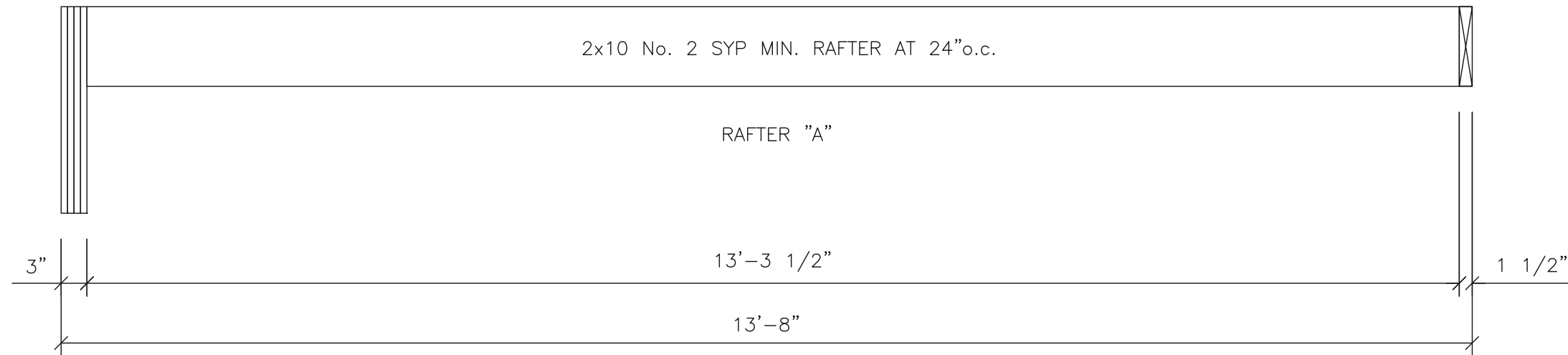
No.	DESCRIPTION	BY	DATE

DATE:	05/13/2016
SCALE:	1/8" = 1'-0"
PLOT SCALE:	1:1
DRAWN BY:	SGD
CHECKED BY:	

SUSTAINMENT BUILDING
FT. HOOD, TEXAS
ROOF FRAMING LAYOUT
FILE: 7582 SUSTAINMENT
SERIAL #: 0000

1 ROOF FRAMING LAYOUT
scale: 1/8" = 1'-0"

SHEET No.
S8-4



05/17/2016

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Approval Date: 6/1/16

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1 RAFTER DETAILS
scale: 3/4" = 1'-0"

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PHONE: 469-298-9386
TX. REGISTRATION # F-15892

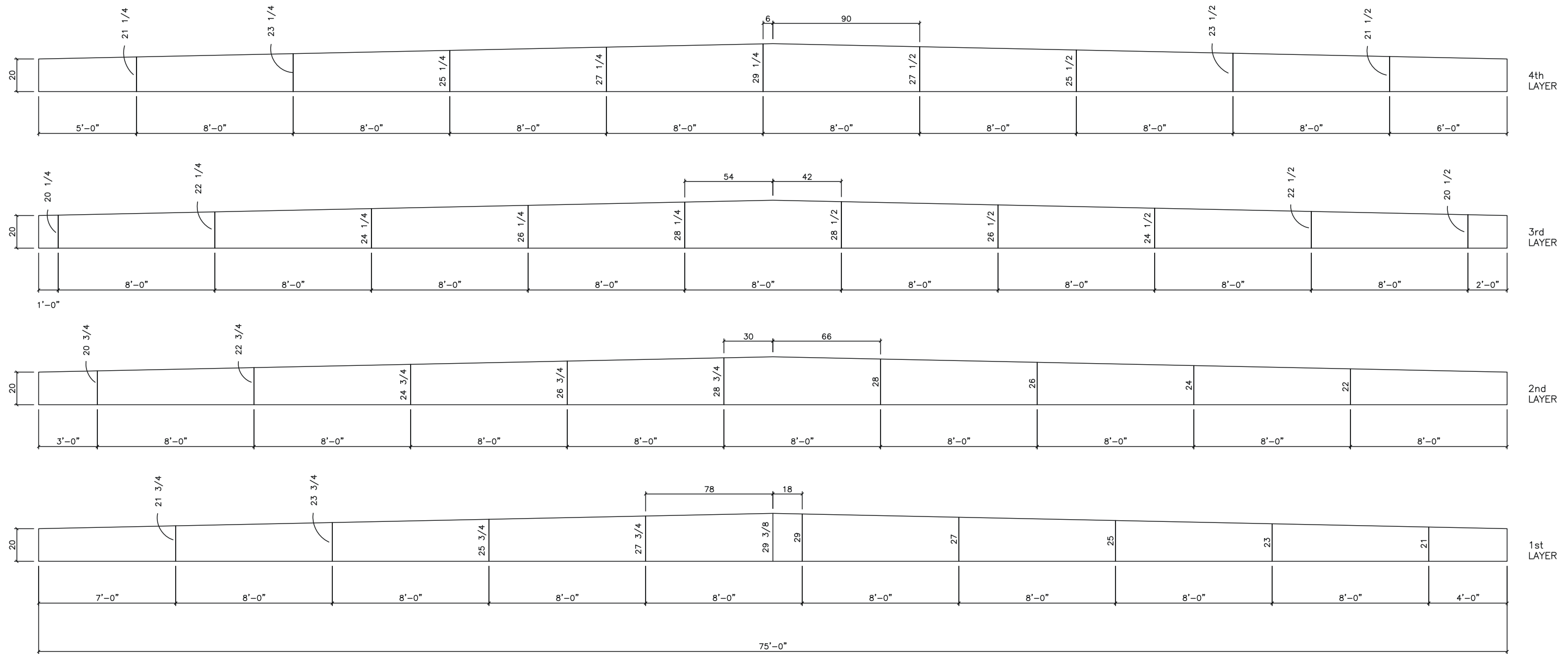
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DORSETT, TEXAS 75115
PH: 469-727-0727

No.	DESCRIPTION	BY	DATE


DATE:	05/13/2016
SCALE:	3/4" = 1'-0"
PLOT SCALE:	1:1
DRAWN BY:	SOD
CHECKED BY:	

SUSTAINMENT BUILDING
FT. HOOD, TEXAS
RAFTER DETAILS
FILE: 7582 SUSTAINMENT
SERIAL #: 0000

SHEET No.
S8-5



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 Approval Date: 6/1/16
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- NOTES:
- RIDGE BEAM CONSTRUCTION IS SAME FOR BOTH HALVES (MIRRORED)
 - RIDGE BEAM CONSTRUCTION SHALL BE IN ACCORDANCE WITH APA PLYWOOD DESIGN SPECIFICATION, SUPPLEMENT 5, AND SECTION 9 OF THE DESIGN MANUAL.
 - RIDGE BEAM IS CONSTRUCTED WITH 3/4", 5-LAYER, GROUP 1 SPECIES PLYWOOD.



05/17/2016

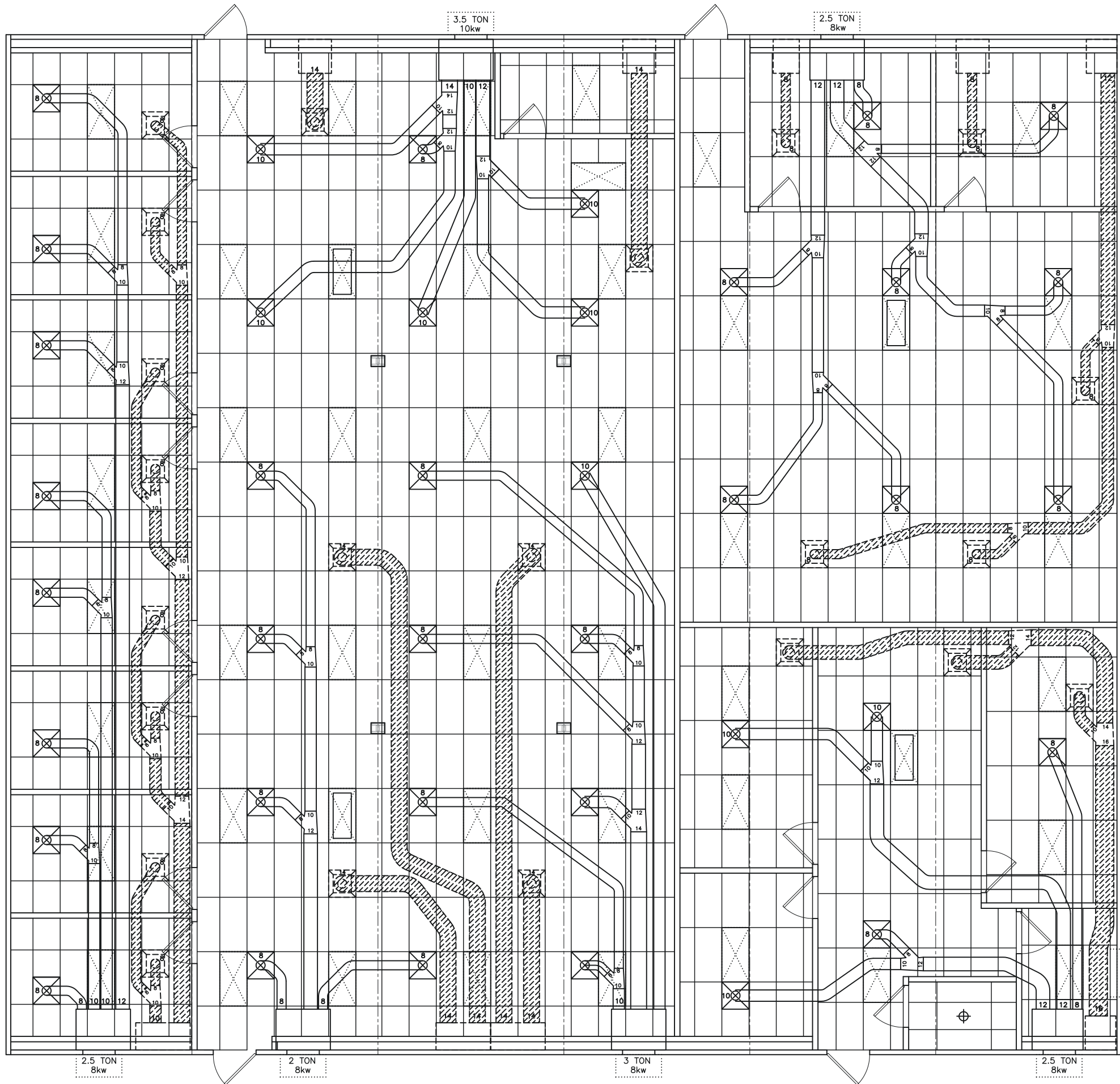
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No.	DESCRIPTION	BY	DATE

DATE:	05/13/2016
SCALE:	3/16" = 1'-0"
PLOT SCALE:	1:1
DRAWN BY:	SGD
CHECKED BY:	

SUSTAINMENT BUILDING
 FT. HOOD, TEXAS
 RIDGE BEAM CONSTRUCTION
 FILE: 7582 SUSTAINMENT
 SERIAL #: 0000



05/17/2016
(Structural Aspects Only)

SYMBOL LEGEND	
	2' x 4' FLUORESCENT LIGHT WITH 4 x 32 WATT LAMPS & ELECTRONIC BALLAST (112 WATTS)
	TYPE IC RECESSED COMPACT FLUORESCENT LIGHT (26 WATT)
	24" x 24" SUPPLY DIFFUSER
	24" x 24" RETURN AIR GRILL
	6" x 12" SUPPLY REGISTER
	PROGRAMMABLE THERMOSTAT

NOTE:
DUCTING IS CLASS 1, U.L. 181 LISTED FLEXIBLE FIBERGLASS DUCTING.

Texas Industrialized Building Code Council
 IBC IRC
 Approval Date: 6/1/16
APPROVED
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No.	DESCRIPTION	BY	DATE

DATE:	05/17/2016
SCALE:	1/8" = 1'-0"
PLOT SCALE:	1:1
DRAWN BY:	SGD
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SUSTAINMENT BUILDING
 FT. HOOD, TEXAS
 CEILING GRID / HVAC LAYOUT
 FILE: 7582 SUSTAINMENT
 SERIAL #: 0000

Texas Industrialized Building Code Council

IBC IRC

Approval Date:
6/1/16

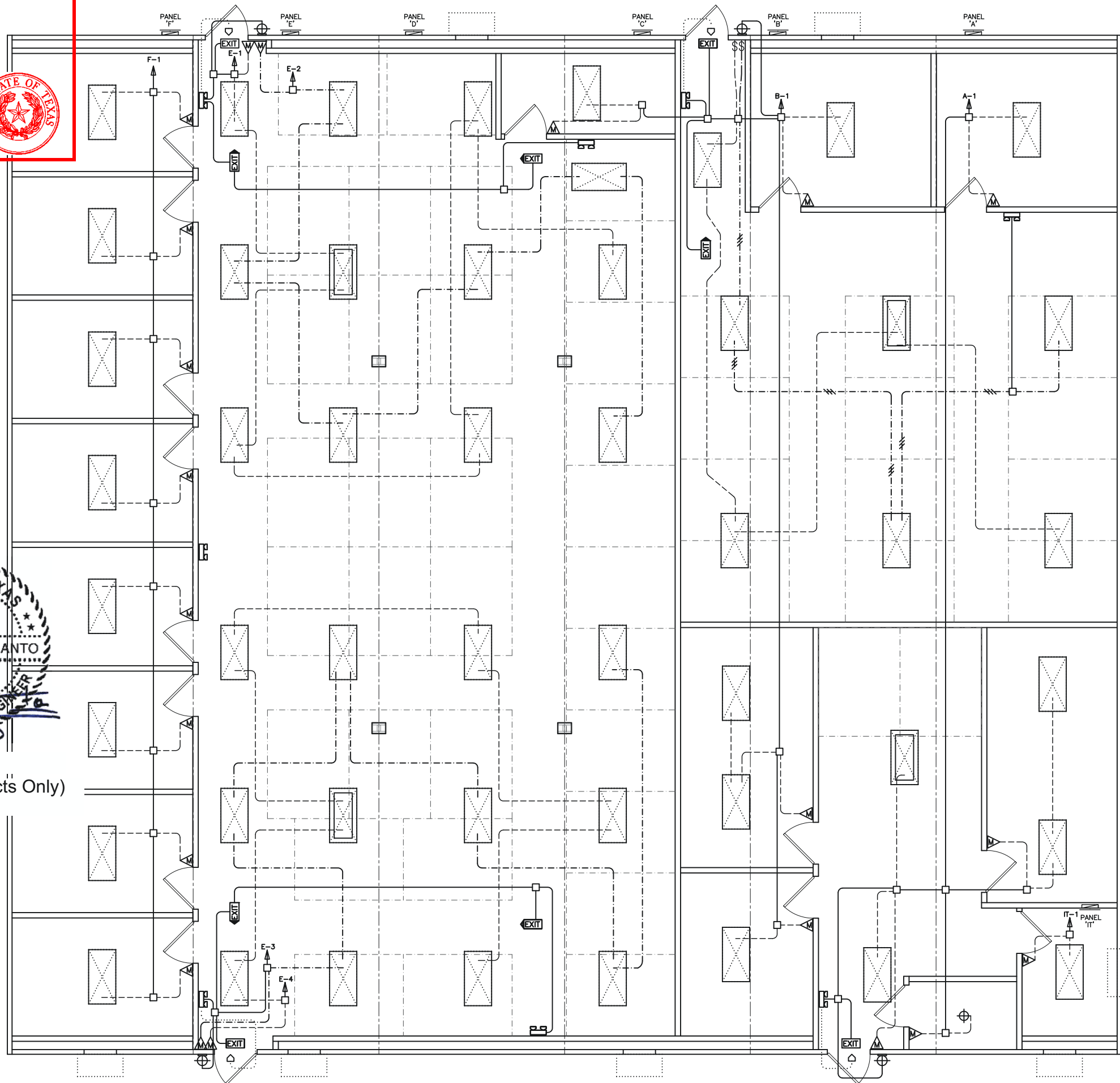
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IHDRA- 7



06/01/2016

(Structural Aspects Only)



ELECTRICAL SYMBOL LEGEND	
	48" x 24" FLUORESCENT LIGHT w/ T-8 LAMPS & ELECTRONIC BALLAST (112w)
	48" x 24" FLUORESCENT LIGHT w/ T-8 LAMPS & 1 EMERGENCY BALLAST (112w) (52w IN EMERGENCY MODE)
	RECESS MOUNTED TYPE IC COMPACT FLUOR. LIGHT (26w)
	VANDAL-PROOF EXTERIOR COMPACT FLUORESCENT LIGHT ON PHOTOCELL (26w)
	WALL MOUNTED CFL LIGHT ON PHOTOCELL (84w)
	EXHAUST FAN, CFM AS NOTED AT FIXTURE
	80CFM EXHAUST FAN / COMPACT FLUORESCENT LIGHT COMBINATION (26w)
	240v RECEPTACLE
	RECEPTACLE
	GFI RECEPTACLE
	TAMPER-RESISTANT RECEPTACLE
	WEATHER-PROOF GFI RECEPTACLE
	DEDICATED RECEPTACLE
	CEILING TILE MOUNTED TWIST-LOCK RECEPTACLE
	RECEPTACLE INSTALLED BELOW FLOOR ON A GFCI BREAKER
	QUAD RECEPTACLE
	CEILING MOUNTED J-BOX WITH POWER FOR CUBICLES
	7-DAY PROGRAMMABLE THERMOSTAT w/ OCCUPANT OVERRIDE
	SWITCH
	3-WAY SWITCH
	OCCUPANCY SENSOR SWITCH
	FLOOR MOUNTED RECEPTACLE
	FLOOR MOUNT PHONE STUB-IN
	TWO PORT TELECOM OUTLET (4 11/16" SQUARE x 2 1/8" DEEP BOX w/ SINGLE GANG RING INSTALLED AT 18" AFF)
	PHONE OUTLET (4 11/16" SQUARE x 2 1/8" DEEP BOX w/ SINGLE GANG RING INSTALLED AT 48" AFF)
	JUNCTION BOX
	ELECTRICAL DIST. PANEL
	LED EXIT LIGHT w/ BATTERY BACK-UP
	EMERGENCY LIGHT w/ BATTERY BACK-UP & REMOTE HEAD
	EXTERIOR REMOTE HEAD
	FIRE EXTINGUISHER LOCATION

NOTE:
BUILDING IS: 120/240v 3-WIRE SINGLE PHASE
ELECTRICAL CONDUIT: ELECTRICAL NON-METALLIC TUBING
ELECTRICAL WIRING: MIN. #12 THIN COPPER WITH GROUND
GROUNDING ON SITE: PER 2011 NEC ARTICLE 250-50

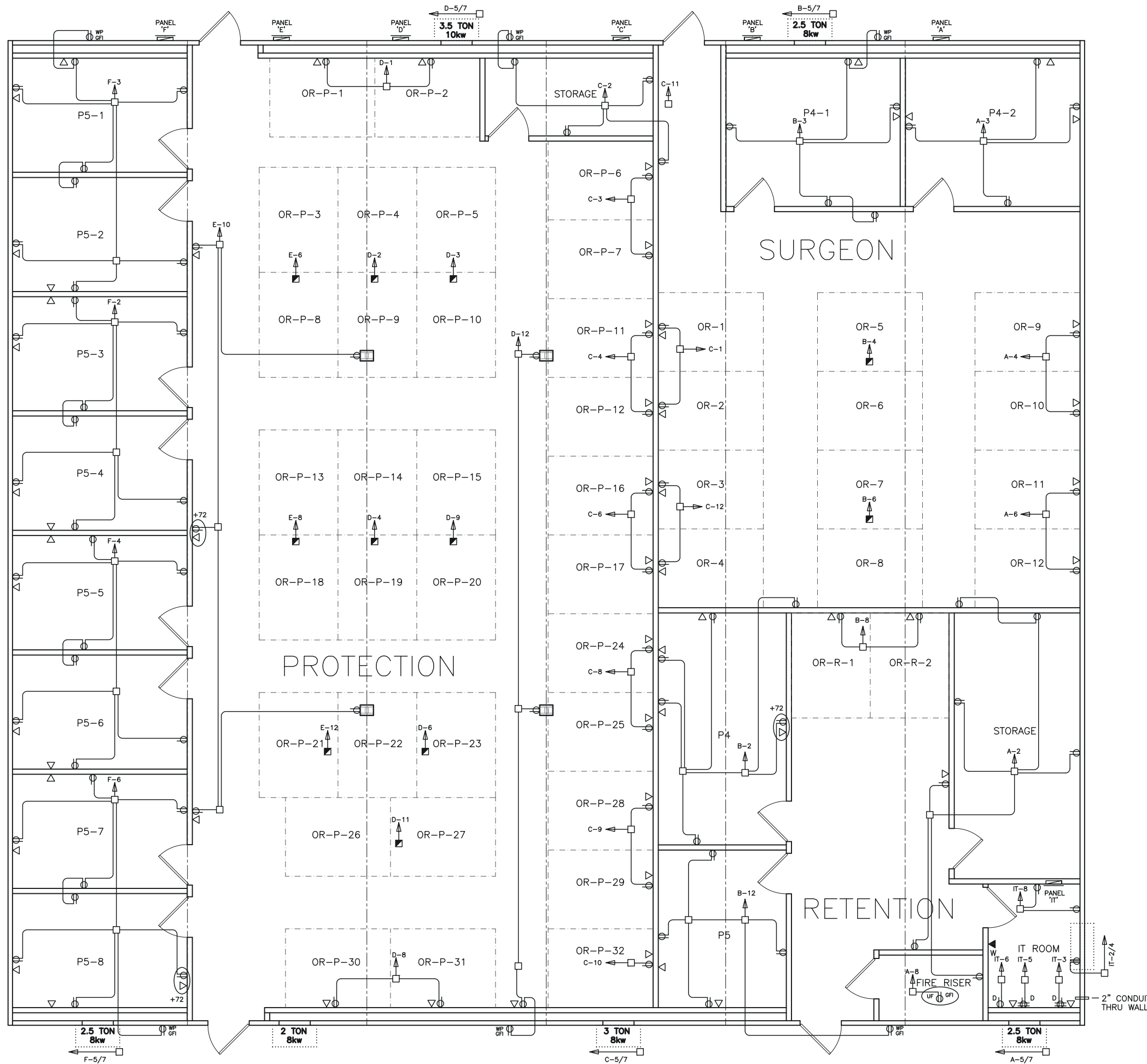
MODULAR STRUCTURAL CONSULTANTS LLC
9720 COIT RD. STE. 220-150
PLANO, TEXAS 75025-5833
PHONE: 469-298-9366
TX. REGISTRATION # F-15692

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PH: 469-727-0727

No.	DESCRIPTION	BY	DATE

DATE:	05/16/2016
SCALE:	1/8" = 1'-0"
PLOT SCALE:	1:1
DRAWN BY:	SGD
CHECKED BY:	

SUSTAINMENT BUILDING
FT. HOOD, TEXAS
LIGHTING SCHEMATIC
FILE: 7582 SUSTAINMENT
SERIAL #: 0000



ELECTRICAL SYMBOL LEGEND

	48" x 24" FLUORESCENT LIGHT w/ T-8 LAMPS & ELECTRONIC BALLAST (112w)
	48" x 24" FLUORESCENT LIGHT w/ T-8 LAMPS & 1 EMERGENCY BALLAST (112w) (52w IN EMERGENCY MODE)
	RECESS MOUNTED TYPE IC COMPACT FLUOR. LIGHT (26w)
	VANDAL-PROOF EXTERIOR COMPACT FLUORESCENT LIGHT ON PHOTOCELL (26w)
	WALL MOUNTED CFL LIGHT ON PHOTOCELL (84w)
	EXHAUST FAN, CFM AS NOTED AT FIXTURE
	80CFM EXHAUST FAN / COMPACT FLUORESCENT LIGHT COMBINATION (26w)
	240v RECEPTACLE
	RECEPTACLE
	GFI RECEPTACLE
	TAMPER-RESISTANT RECEPTACLE
	WEATHER-PROOF GFI RECEPTACLE
	DEDICATED RECEPTACLE
	CEILING TILE MOUNTED TWIST-LOCK RECEPTACLE
	RECEPTACLE INSTALLED BELOW FLOOR ON A GFCI BREAKER
	QUAD RECEPTACLE
	CEILING MOUNTED J-BOX WITH POWER FOR CUBICLES
	7-DAY PROGRAMMABLE THERMOSTAT w/ OCCUPANT OVERRIDE
	SWITCH
	3-WAY SWITCH
	OCCUPANCY SENSOR SWITCH
	FLOOR MOUNTED RECEPTACLE
	FLOOR MOUNT PHONE STUB-IN
	TWO PORT TELECOM OUTLET (4 11/16" SQUARE x 2 1/8" DEEP BOX W/ SINGLE GANG RING INSTALLED AT 18" AFF)
	PHONE OUTLET (4 11/16" SQUARE x 2 1/8" DEEP BOX W/ SINGLE GANG RING INSTALLED AT 48" AFF)
	JUNCTION BOX
	ELECTRICAL DIST. PANEL
	LED EXIT LIGHT w/ BATTERY BACK-UP
	EMERGENCY LIGHT w/ BATTERY BACK-UP & REMOTE HEAD
	EXTERIOR REMOTE HEAD
	FIRE EXTINGUISHER LOCATION

NOTE:
 BUILDING IS: 120/240v 3-WIRE SINGLE PHASE
 ELECTRICAL CONDUIT: ELECTRICAL NON-METALLIC TUBING
 ELECTRICAL WIRING: MIN. #12 THHN COPPER WITH GROUND
 GROUNDING ON SITE: PER 2011 NEC ARTICLE 250-50



05/17/2016
 (Structural Aspects Only)

Texas Industrialized Building Code Council
 IBC IRC
 Approval Date: 6/1/16
APPROVED
 PFS CORPORATION
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MODULAR STRUCTURAL CONSULTANTS LLC
 9720 COIT RD. STE. 220-150
 PLANO, TEXAS 75025-5833
 PHONE: 469-298-9386
 TX. REGISTRATION # F-15892

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 DESOTO, TEXAS 75115
 PH: 469-727-0727

No.	DESCRIPTION	BY	DATE

SCALE: 1/8" = 1'-0"
 PLOT SCALE: 1:1
 DRAWN BY: SGD
 CHECKED BY:

SUSTAINMENT BUILDING
 FT. HOOD, TEXAS
 POWER DISTRIBUTION SCHEMATIC
 FILE: 7582 SUSTAINMENT
 SERIAL #: 0000

PANEL A. WIRE SIZE, QTY, ITEM, WATTS, TOTAL. LIGHTS: SURGEON P4, RETENTION, STOR, FIRE. RECEPTS: SURGEON, RETENTION, STOR, FIRE.

LOAD CALC. 240 v. 125 AMP. QTY, ITEM, WATTS, TOTAL. 5 Fluorescent T-8's, 1 Compact Fluorescent, 1 Ext. Fluorescent Light, etc.

PANEL D. WIRE SIZE, QTY, ITEM, WATTS, TOTAL. WORK STATION: OR-P-1 & 2. WORK STATION: OR-P-5 & 10. HVAC UNIT: 3.5 TON / 10kw.

LOAD CALC. 240 v. 150 AMP. QTY, ITEM, WATTS, TOTAL. 0 Fluorescent T-8's, Incandescent Light, 0 Ext. Fluorescent Light, etc.

GROUND BAR, NEUTRAL, WIRE SIZE OF: Service Conductors: 1, Service Ground: 6. TOTAL PANEL LOAD: Total Watts: 25992 watts, Voltage: 240 v, Total Amps: 108.30 amps.

GROUND BAR, NEUTRAL, WIRE SIZE OF: Service Conductors: 1/0, Service Ground: 6. TOTAL PANEL LOAD: Total Watts: 30240 watts, Voltage: 240 v, Total Amps: 126.00 amps.

PANEL B. WIRE SIZE, QTY, ITEM, WATTS, TOTAL. LIGHTS: SURG. P4-1, OPEN AREA, RET P4 & P5. RECEPTS: RETENTION P4. HVAC UNIT: 2.5 TON / 8kw.

LOAD CALC. 240 v. 100 AMP. QTY, ITEM, WATTS, TOTAL. 12 Fluorescent T-8's, Incandescent Light, 1 Ext. Fluorescent Light, etc.

PANEL E. WIRE SIZE, QTY, ITEM, WATTS, TOTAL. LIGHTS: PROTECTION STORAGE AREA. LIGHTS: PROTECTION OPEN END. HVAC UNIT: 2 TON / 8kw.

LOAD CALC. 240 v. 100 AMP. QTY, ITEM, WATTS, TOTAL. 24 Fluorescent T-8's, Incandescent Light, 2 Ext. Fluorescent Light, etc.

GROUND BAR, NEUTRAL, WIRE SIZE OF: Service Conductors: 3, Service Ground: 8. TOTAL PANEL LOAD: Total Watts: 21127 watts, Voltage: 240 v, Total Amps: 88.03 amps.

GROUND BAR, NEUTRAL, WIRE SIZE OF: Service Conductors: 3, Service Ground: 8. TOTAL PANEL LOAD: Total Watts: 20959 watts, Voltage: 240 v, Total Amps: 87.33 amps.

PANEL C. WIRE SIZE, QTY, ITEM, WATTS, TOTAL. WORK STATION: OR-1 & 2. WORK STATION: OR-P-6 & 7. HVAC UNIT: 3 TON / 8kw.

LOAD CALC. 240 v. 125 AMP. QTY, ITEM, WATTS, TOTAL. Fluorescent T-8's, Compact Fluorescent, Ext. Fluorescent Light, etc.

PANEL F. WIRE SIZE, QTY, ITEM, WATTS, TOTAL. LIGHTS: P5 OFFICES. RECEPTS: P5-1 & 2. RECEPTS: P5-1 & 2. HVAC UNIT: 2.5 TON / 8kw.

LOAD CALC. 240 v. 100 AMP. QTY, ITEM, WATTS, TOTAL. 8 Fluorescent T-8's, Compact Fluorescent, Ext. Fluorescent Light, etc.

GROUND BAR, NEUTRAL, WIRE SIZE OF: Service Conductors: 1, Service Ground: 6. TOTAL PANEL LOAD: Total Watts: 27540 watts, Voltage: 240 v, Total Amps: 114.75 amps.

GROUND BAR, NEUTRAL, WIRE SIZE OF: Service Conductors: 3, Service Ground: 4. TOTAL PANEL LOAD: Total Watts: 17800 watts, Voltage: 240 v, Total Amps: 74.17 amps.

PANEL IT. WIRE SIZE, QTY, ITEM, WATTS, TOTAL. LIGHT. DEDICATED QUAD RECEPT: LEFT. DEDICATED QUAD RECEPT: RIGHT. DEDICATED RECEPTACLE: CCTV HEAD END.

LOAD CALC. 240 v. 100 AMP. QTY, ITEM, WATTS, TOTAL. 1 Fluorescent T-8's, 2 Recept Duplex, 3 Recept Dedicated, etc.

GROUND BAR, NEUTRAL, WIRE SIZE OF: Service Conductors: 3, Service Ground: 4. TOTAL PANEL LOAD: Total Watts: 6910, Voltage: 240 v, Total Amps: 28.79 amps.

GROUND BAR, NEUTRAL, WIRE SIZE OF: Service Conductors: 3, Service Ground: 8. TOTAL PANEL LOAD: Total Watts: 6910 watts, Voltage: 240 v, Total Amps: 28.79 amps.

GROUND BAR, NEUTRAL, WIRE SIZE OF: Service Conductors: 3, Service Ground: 4. TOTAL PANEL LOAD: Total Watts: 17800 watts, Voltage: 240 v, Total Amps: 74.17 amps.

BUILDING TOTAL LOAD. Panel "A" Load: 25992 watts. Panel "B" Load: 21127 watts. Panel "C" Load: 27540 watts. Panel "D" Load: 30240 watts. Panel "E" Load: 20959 watts. Panel "F" Load: 17800 watts. Total: 118299 watts. Voltage: 240 v. Total Amps: 524 Amps.

PALOMAR MODULAR BUILDINGS LLC. YURIYURIANTO. TX. REG. # F-15892. 9720 COIT RD. STE. 220-150. PLANO, TX. 75025-5833.

Table with columns: No., Description, BY, Date.

Date: 4/6/2016. Scale: N.T.S. Plot Scale: N.T.S. Drawn By: SGD. Checked By:

Electrical Load Calculations. SUSTAINMENT BUILDING. FT. HOOD, TEXAS. Dwg #: 7582 SUSTAINMENT. Serial #:

Professional Engineer seal for YURIANTO YURIANTO, No. 116188. State of Texas. License expires 05/17/2016. (Structural Aspects Only). Total Building Receptacle Load: 118299. Panel A: 25992, Panel B: 21127, Panel C: 27540, Panel D: 30240, Panel E: 20959, Panel F: 17800. Total: 118299. Remain 50% Adjusted: 8780. Total Adjusted Load: 127079. 529.49375.

Texas Industrialized Building Code Council. IBCC IRC. APPROVED. PFS CORPORATION. IHDR-7. THE STATE OF TEXAS seal.



05/17/2016
(Structural Aspects Only)

SYMBOL LEGEND	
	MANUAL PULL STATION MOUNT AT 48" AFF. INSTALL A 4 11/16" SQ. x 2 1/8" DEEP BOX W/ A SINGLE GANG MUD RING
	WALL COMBINATION ALARM HORN / STROBE. INSTALL A 4 11/16" SQ. x 2 1/8" DEEP BOX W/ A SINGLE GANG MUD RING.
	WALL MOUNTED STROBE. INSTALL A 4 11/16" SQ. x 2 1/8" DEEP BOX W/ A SINGLE GANG MUD RING.
	WALL MOUNTED HORN. INSTALL A 4 11/16" SQ. x 2 1/8" DEEP BOX W/ A SINGLE GANG RING
	SMOKE DETECTOR. INSTALL 4 11/16" SQ. x 2 1/8" DEEP BOX W/ A SINGLE GANG RING
	FIRE ALARM CONTROL PANEL. PROVIDE A DEDICATED 120v POWER CIRCUIT
	WATER FLOW SWITCH. INSTALL 4 11/16" x 2 1/8" DEEP BOX AT WALL NEAR SPRINKLER RISER W/ PIECE OF FLEX CONDUIT FOR CONNECTION TO SWITCH
	TAMPER SWITCH. INSTALL 4 11/16" x 2 1/8" DEEP BOX AT WALL NEAR SPRINKLER RISER W/ PIECE OF FLEX CONDUIT FOR CONNECTION TO SWITCH
	POST INDICATOR VALVE CONNECTION
	MONACO RADIO TRANSMITTER PANEL. PROVIDE WITH 120v DEDICATED POWER CIRCUIT
	EXTERIOR, WEATHER-PROOF
	3/4" CONDUIT STUBBED THROUGH ROOF FOR CONTRACTOR INSTALLED RED STROBE FOR FIRE DEPARTMENT NOTIFICATION WHEN AN ALARM PANEL GOES INTO TROUBLE MODE
	2' x 4' FLUORESCENT LIGHT WITH 4 EACH T-8 LAMPS, ONE ELECTRONIC BALLAST AND ONE EMERGENCY BALLST DRIVING TWO LAMPS IN FIXTURE IN EMERGENCY MODE

NOTE:
FOR A 94" FINISHED CEILING HEIGHT, WALL MOUNTED NOTIFICATION APPLIANCES ARE TO BE INSTALLED AT A MAXIMUM OF 80" ABOVE FINISHED FLOOR TO THE BOTTOM OF THE APPLIANCE.
ALL DEVICES TO HAVE 3/4" CONDUIT STUBBED TO ABOVE THE SUSPENDED CEILING

Texas Industrialized Building Code Council
IBC IRC
Approval Date: 6/1/16
APPROVED
PFS CORPORATION
IHdra- 7

1 ALARM SYSTEM LAYOUT
scale: 1/8" = 1'-0"

MODULAR STRUCTURAL CONSULTANTS LLC
9720 COIT RD. STE. 220-150
PLANO, TEXAS 75025-5833
PHONE: 469-298-9386
TX. REGISTRATION # F-15892

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608 N. L. SUE
DORSETT, TEXAS 75115
PH: 469-727-0727

No.	DESCRIPTION	BY	DATE

DATE:	02/12/2016
SCALE:	1/8" = 1'-0"
PLOT SCALE:	1:1
DRAWN BY:	SGD
CHECKED BY:	

SUSTAINMENT BUILDING
FT. HOOD, TEXAS
ALARM SYSTEM LAYOUT
FILE: 7582 SUSTAINMENT
SERIAL #: 0000

SHEET No.
E8-4