

DESIGN CRITERIA:	
PROJECT NAME: NORTEX 4876 RECERTIFICATION	
BUILDING SQ. FOOTAGE: 3648	
2002 NATIONAL ELECTRICAL CODE	
2003 IBC 1994 TAS	
2003 IMC 2003 IECC	
2003 IPC 2003 IEBC	
USE GROUP: E	
CONSTRUCTION TYPE: IBC: V-B	
OCCUPANT LOAD: 179	
PERMISSIBLE GAS TYPE: <input type="checkbox"/> LP <input type="checkbox"/> NATURAL <input checked="" type="checkbox"/> N/A	

DESIGN LOADS:	
ROOF LIVE LOAD: 20 PSF	
FLOOR LIVE LOAD: 40 PSF (100 PSF IN CORRIDOR ONLY)	
CONCENTRATED FLOOR L.L.: 2000	
CORRIDOR: 1HR RATED, SEE PREVIOUS FIRE WALL DETAIL.	
WIND LOAD: 80 MPH	
EXPOSURE: <input checked="" type="checkbox"/>	
SEISMIC ZONE: <input checked="" type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2A <input type="checkbox"/> 2B <input type="checkbox"/> 3 <input type="checkbox"/> 4	

SPECIAL CONDITIONS:	
1. HANDICAP ACCESS TO BE PROVIDED BY OTHERS.	
2. BASED ON 1:150 SQ. FT. PER SQ. FT. OF CEILING AREA, THERE MUST BE A MINIMUM OF 24.32 SQ. FT. FREE AREA OF ATTIC VENTILATION.	
3. FRESH AIR VENTILATION IS PROVIDED THRU FRESH AIR DAMPERS IN THE HVAC SYSTEM.	
4. BUILDING TO BE LOCATED MIN. 20'-0" TO PROPERTY LINES OR ASSUMED PROPERTY LINES.	
5. ANY REQUIRED ALARM SYSTEM WILL BE BY OTHERS ON SITE.	

FOUNDATION NOTES:	
1. FOUNDATION AND ANCHORING ARE SUBJECT TO ACCEPTANCE AND INSPECTION BY LOCAL AUTHORITY HAVING JURISDICTION.	
2. TEMPORARY TIE-DOWNS: 4 ANCHORS EACH SIDE WITH SOIL TYPES 2, 3, OR 4.	
3. CRAWL SPACE VENTILATION TO BE PROVIDED BY OTHERS	

FRAME / CHASSIS:	
TYPE: 48" O.C. OUTRIGGER	
BEAM: 12" JR. I-BEAM	
HITCH: DETACHABLE	
AXLES: QUAD WITH BRAKES ON (2) AXLES	
TIRES: LOAD RANGE 'E' (10-PLY)	

FLOOR:	
BOTTOM BOARD: ROLL, WOVEN POLYETHYLENE MESH	
INSULATION: R-11 UNFACED	
JOISTS: 2x8 No. 2 SYP OR BTR. AT 16" O.C.	
PERIMETER JOISTS: (2) 2x8 No. 3 SYP OR BTR.	
DECKING: SINGLE 3/4" T&G STURDFLOOR, USING MB-40PVA GLUE [TANNER CHEM. CO.]	
FLOOR COVERING: TO BE DETERMINED	

EXTERIOR WALLS:	
SIDEWALL HEIGHT: 9'-0" (MIN.) -SEE PG. A2.2-	
STUDS: 2x4 No. 2 SPF AND BTR. AT 16" O.C.	
BOTTOM PLATE: 2x4 No. 3 SPF AND BTR	
TOP PLATE: DBL 2x4 SPF No. 3 AND BTR	
BELT RAIL: 1x3	
HEADERS: DBL 2x4 No. 2 SPF OR BTR ON EDGE WITH 1/2" PLYWOOD FILLER	
FIRE BLOCKS: 2x MIN. AT CLG LINE OR 10' AS REQ'D.	
COVERING: 5/8" VCG HAMPTON GRAY	
TRIM: 4" VINYL BASE GREY	
INSULATION: R-11 UNFACED	
SIDING: HARDI-PANEL PREP ONLY -HOLD UP SIDING AT FLOOR JOISTS-	
EXTERIOR TRIM: HARDI-PANEL PREP ONLY -SHIPLOOSE HARDI-PANEL SKIRT CORNERS-	
SKIRTING: N/A	
SHEATHING: 7/16" OSB	
MISC: DO NOT CUT BACK HARDI-PANEL FROM MATELINE	

INTERIOR WALLS:	
WALL HEIGHT: FULL HT. TO RAFTERS	
STUDS: 2x4 (MIN.) STUD GR SPF AND BTR AT 16" O.C.	
BOTTOM PLATE: 2x4 No. 3 SPF AND BTR	
TOP PLATE: DBL 2x4 SPF No. 3 AND BTR	
HEADERS: SINGLE 2x4 FLAT	
FIRE BLOCKS: 2x MIN. AT CLG LINE OR 10' AS REQ'D.	
COVERING: 5/8" VCG HAMPTON GRAY	
TRIM: 4" VINYL BASE GREY	
INSULATION: R-11 UNFACED IN PARTITION WALLS (FULL HT. TO RAFTERS)	
MISC: N/A	

DOORS:	
EXTERIOR: (2) 72x84 DBL. STORE FRONT	
FRAME: METAL FRAME	
HARDWARE: PANIC HARDWARE & BEST "IC" CORES OR EQUAL WEATHER STRIPPING AND H.C. THRESHOLD	
DOOR STOPS: (2) HYD. CLOSERS	
INTERIOR: (4) 36x80 MOHAWK SOLID CORE W/ 6x20 VISION & 20 MIN. LABEL	
FRAME: REDI-FRAME STEEL	
HARDWARE: (4) PASSAGE LEVER & CLOSER (4) WALL MTD. DOOR STOPS	

WINDOWS:	
SIZE/TYPE: (4) 36" x 52" VERT. SLIDERS	
BRZ. FINISH (H-R)	
GLAZING: DOUBLE INSULATED GLASS (DIG)	
COVERING: (4) 36" x 52" STEEL MINI BLINDS	

ROOF:	
RAFTERS: 2x8 #2 SYP OR BTR. @ 24" O.C. (TRANSVERSE)	
-SEE PG. A2.2-	
RIM JOIST: SNG. 2x8 #3 SYP/SPF	
PITCH: 1/4" IN 12" MIN.	
CEILING: 2x4 ACOUSTIC TILE W/ DBL. 5/8" RAW GYP. IN CORRIDOR	
CEILING HEIGHT: 8'-8" A.F.F.	
INSULATION: R-19 UNFACED FIBERGLASS	
SHEATHING: 7/16" OSB W/ 1/4" DENS DECK	
ROOFING: .045 EPDM	
MANSARD: N/A	
MISC: INSTALL 25 FLAME SPREAD (F.S.) FOIL IN CEILING (ATTACH TO RAFTERS)	
DRAFT STOPS TO BE INSTALLED IN CEILING ASSEMBLY OF CLASSROOM SO THAT CONCEALED AREA SHALL NOT EXCEED 1000 S.F.	
DRAFTSTOPPING SHALL BE NO LESS THAN 1/2" GYPSUM BOARD, OR 3/8" PLYWOOD, OR OSB.	

PLUMBING:	
ACCESSIBLE RESTROOMS ARE AVAILABLE ON-SITE IN AN ADJACENT BUILDING.	

HVAC:	
COOLING: (4) 4-TON WALL MTD CENTRAL -EUBANKS OR EQUIVALENT-	
HEATING: (4) 10 KW ELECTRIC RESISTANT HEAT STRIP	
THERMOSTAT: (4) PROGRAMABLE	
DUCTS: PLENUM BOX W/ FLEX & (4) FIRE DAMPERS	
DIFFUSERS: 24x24	
RETURN AIR: CEILING RETURN	

PREVIOUS UNIT NUMBERS	
UNIT	SERIAL#
B	N7280-5317
C	N7280-5318
D	N7280-5319
E	N7280-5323
	TX60633
	TX60634
	TX60635
	TX60636

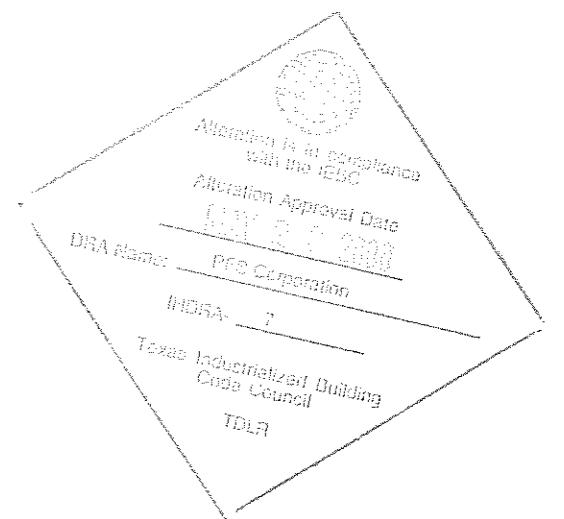
FURNITURE / MISC:	
BASE CABINETS: N/A	
UPPER CABINETS: N/A	
UTILITIES: N/A	
MISC: -(2) RECESSED FIRE EXTINGUISHERS -SHIPLOOSE PATCHING COMPOUND -SHIPLOOSE HARDI-PANEL BATTENS FOR ALL MATELINE JOINERS, INCLUDING FASIA AND ROOF LINE	

COMCHECK:	
END WALLS: 48X9'=432*2=864SF	
SIDE WALLS: 76X9'=648*2=1368SF	
TOTAL WALLS 2232SF	
WINDOWS: 36.5"X52.5" = 13.3SF EA.	
DOORS: 72.5X84.5=45.5SF EA.	

DRAWING INDEX:	
COVER SHEET & SPECIFICATIONS....G-001	
DEMO NOTATIONS.....G-002	
TESTING.....G-003	

NOTATIONS:

1. UNITS A AND F ARE DEMOLISHED AND EXCLUDED FROM THE DRAWINGS.
2. INSTALL EXTERIOR WALL UNDER THE EXISTING TRUSSES AND INCLUDE THE COLUMNS SUPPORTING THE TRUSS INTO THE WALL.
3. REPLACE ALL 2X4 LIGHTS WITH T-8 (3) BULB ELECTRONIC BALLAST, 92 FIXTURE WATT LIGHTS.
4. ADD EXTERIOR PHOTO CELL LIGHTS AT ENTRYS. 13 WATT BULBS.
5. REPLACE ALL CEILING TILE WITH NEW TILE.
6. ADD EXIT/EMEGENCY COMBO LIGHTS AT THE EXTERIOR DOORS.
7. CHANGE THE EXIT/EMEGENCY COMBO LIGHTS TO BE ON THE LIGHTING CIRCUIT FOR THE SAME AREA.



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LTR	REVISION	BY	DATE	DRAWN BY: REW	PROJECT: NORTEX MODULAR SPACE	TITLE: DEMO REBUILD NOTATIONS		NORTEX MODULAR SPACE 555 JUBILEE LANE LEWISVILLE, TX 75056 PHONE: 972-492-4040 FAX: 972-492-2704
				DATE: 05/08/08	SCALE: NTS	SALES PERSON:	DWG# 4276AMREC	SHEET: G-002

## DIELECTRIC STRENGTH TEST

### REQUIREMENTS:

Dielectric Strength Test – the wiring of each structure shall be subjected to a 1 minute, minimum 1,273 volt dielectric strength test (with all switches closed) between live parts (including neutral), and ground. Alternatively, the test may be performed at minimum 1,527 volts for 1 second. This test shall be performed after branch circuits are complete and after fixtures or appliances are installed. Fixtures or appliances, which are listed, shall not be required to withstand the dielectric strength test. The dielectric strength test shall be performed at a minimum 1,273 volts for one minute or at a minimum 1,527 volts for one second.

PURPOSE: To determine that insulation on all circuit conductors has not been damaged.

TEST APPARATUS: A dielectric strength tester, such as a Slaughter Industries model 1156-2.5 or equivalent device.

### THE TEST INCLUDES THE FOLLOWING:

All electrical conductors have been installed and interconnected. All branch circuit wiring must be completed, and connected to appliances and fixtures. NOTE: Listed fixtures and appliances must be disconnected before conducting the test.

- 1) Equipment being used is capable of providing the required voltage from a transformer with automatic current limiting apparatus under fault conditions, along with a fault detection indicator and a voltmeter. This equipment should be properly calibrated and in a functioning condition. The functionality of the tester can be checked by touching the prods of the tester together, which should indicate a fault.
- 2) Test is conducted at minimum 1,527 volts for one second or minimum 1,273 volts for one minute.
- 3) Test is conducted between the ground and the neutral (white) and between the ground and each of the two hot legs (black or red).

### SPECIAL ITEMS TO CHECK BEFORE TEST:

- a) All light bulbs are removed.
- b) All circuit breakers and switches are in the on position.
- c) GFI breakers or in-line GFI receptacles are NOT to be dielectric tested. By-pass these devices or install after the circuit wiring is dielectric tested.
- d) 3-way switches need to be tested with on switch open and on closed. Reverse switch positions and test again.
- e) Rheostat dimmers: Do not test rheostats. By-pass the switch and test the wiring only.
- f) Provide warning to all personnel that dielectric test is about to be performed.

## POLARITY TEST

### REQUIREMENTS:

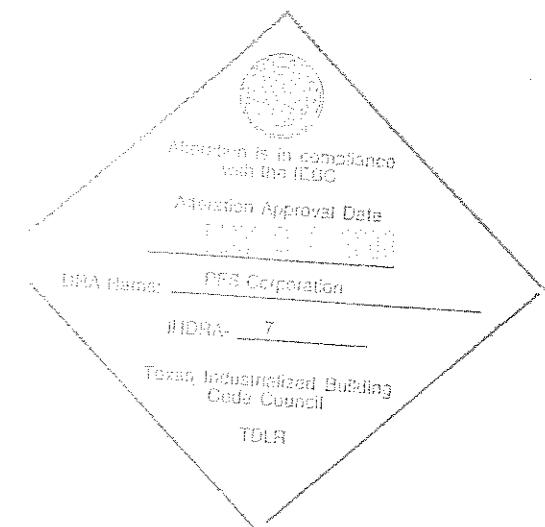
Each structure shall be subjected to polarity checks to determine that connections have been properly made.

PURPOSE: To determine that all connections in the electrical system have been properly made so as to assure that the ungrounded conductors and he grounded conductor (neutral or white) are connected to the corrected terminals at each connection

TEST APPARATUS: Polarity tester, such as Gardner-Bender model 501A or equivalent UL listed tester.  
 Screw plug for incandescent light socket.  
 3 Prong to 2 prong plug converter.  
 Adapters for various outlet configurations, as needed  
 Source of temporary electric power.

### THE TEST INCLUDES THE FOLLOWING:

- 1) All electrical outlets have been installed and connected.
- 2) Electrical power is supplied to the unit.
- 3) Using a polarity tester check all 110 volt electrical receptacles. This includes outside and heat tape receptacles.
- 4) Using a polarity tester with the appropriate attachment, connect to lights ands switches with clips or probes, screw into incandescent bulb fixtures with adapter and test for polarity.
- 5) Failure requires repair and re-test.
- After the polarity checks are completed, and the system passes, the QC Checksheet is signed off as required by the QA Manual.



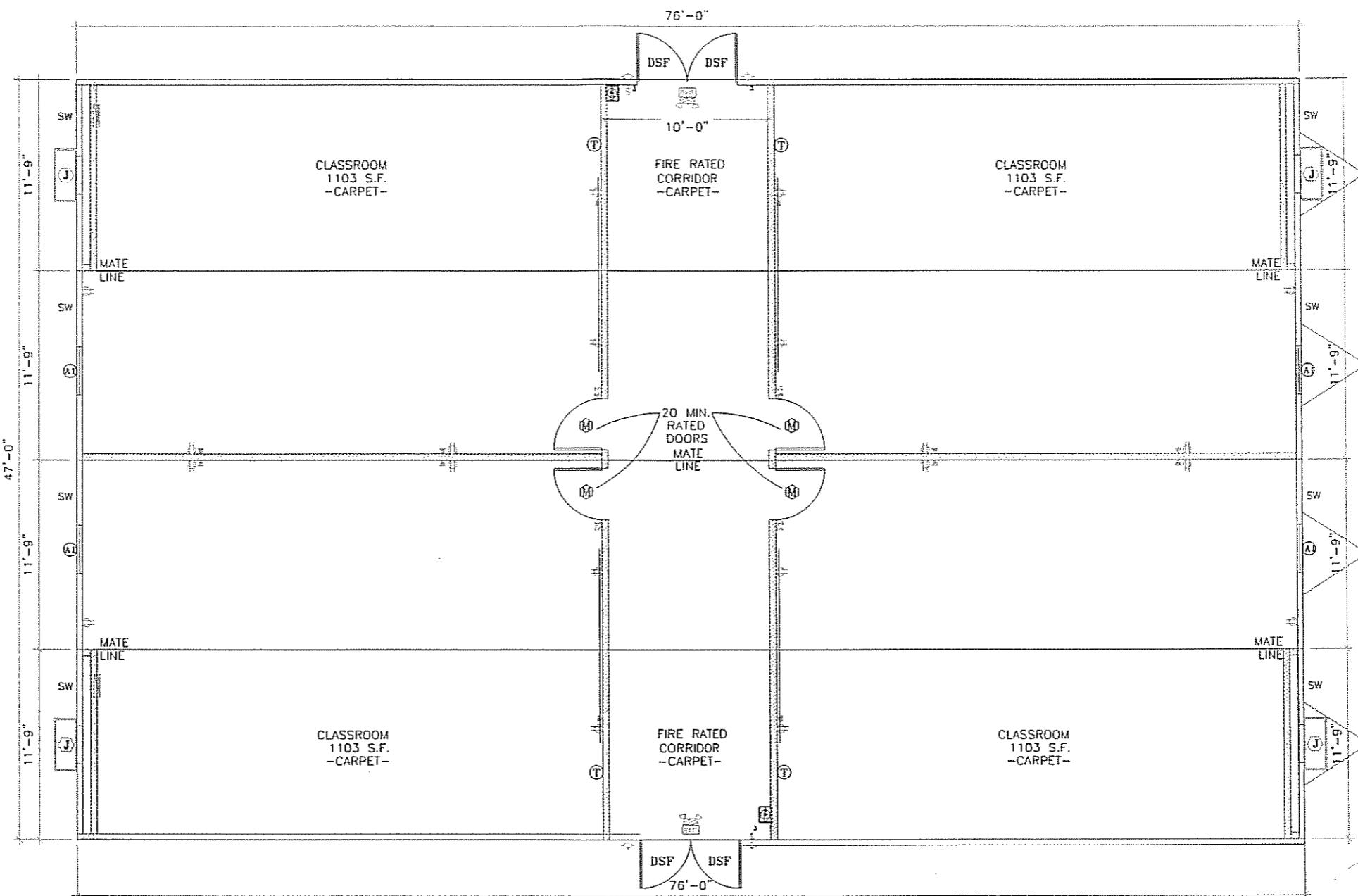
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### **NORTEX MODULAR SPACE**

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LTR	REVISION	BY	DATE	DRAWN BY: REW	PROJECT: NORTEX MODULAR SPACE	TITLE: TESTING	DWG# 4276AMREC	SHEET: G-003
				DATE: 05/08/08	SCALE: NTS	SALES PERSON:		



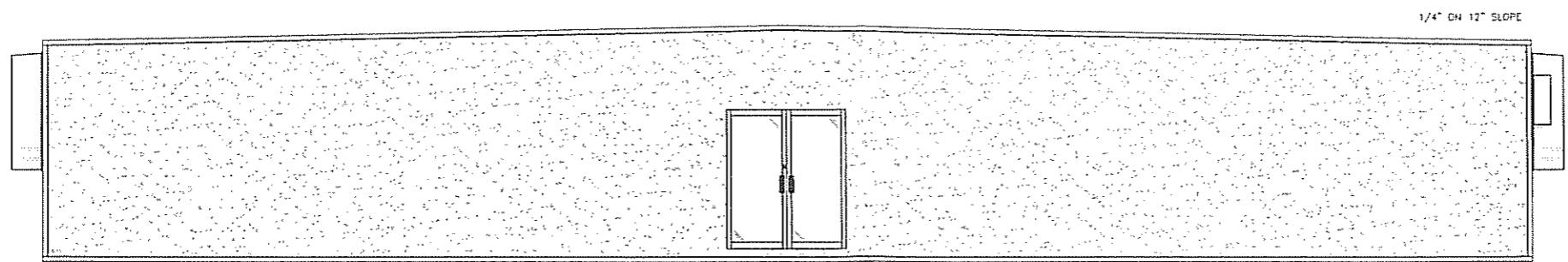
SCHEDULE \ LEGEND			
KEY	ITEM DESCRIPTION	SIZE	ROUGH OPENING
(A)	WINDOW, VS (DIG) W/ STEEL MINI BLINDS	36x52	35-1/2" X 52-1/2"
(B)	DOOR, INTERIOR SOLID CORE MOHAWK W/ 20 VISION PANEL & 20 MIN. LABEL	36x80	37-1/4" X 81"
DSF	DOOR, EXTERIOR DEL. STORE FRONT	72x84	76" X 86"
(J)	4 TON CENTRAL 10KW HVAC (EUBANKS)		
v	J-BOX FOR PHONE CONNECTION		STUBBED ABOVE CEILING
(J)	J-BOX		
	LOAD CENTER, SINGLE PHASE 200 AMP	UP 32"	(STUB DOWN)
(E)	RECESSED FIRE EXTINGUISHER	UP 48"	TO EXISTING HANDLE
(S)	EXT. MTD. SODIUM WALLPACK W/ PHOTOCELL	UP 90"	
(T)	THERMOSTAT - WHITE ROGERS W/ AUTO-CHANGE OVER	UP 60"	
RAG	RETURN AIR GRILLE	DN 3"	
(W)	INSULATE WALL W/ R-11 UNFACED		
SW	SHEAR WALL		

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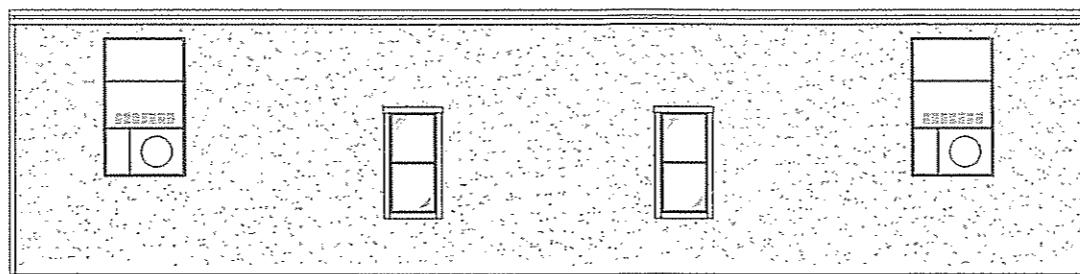
**NORTEX MODULAR SPACE**

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FAX: 972-492-2704

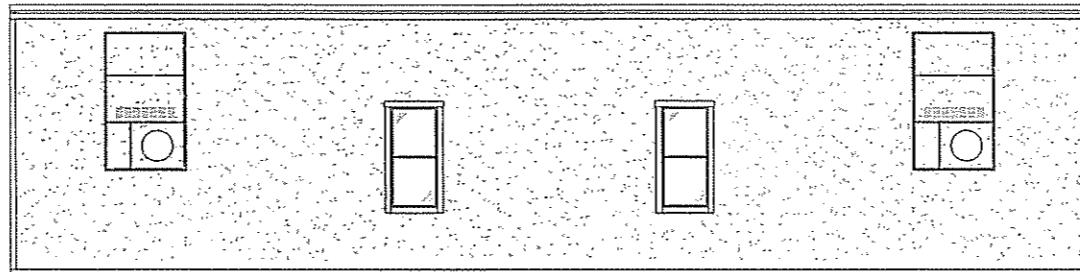




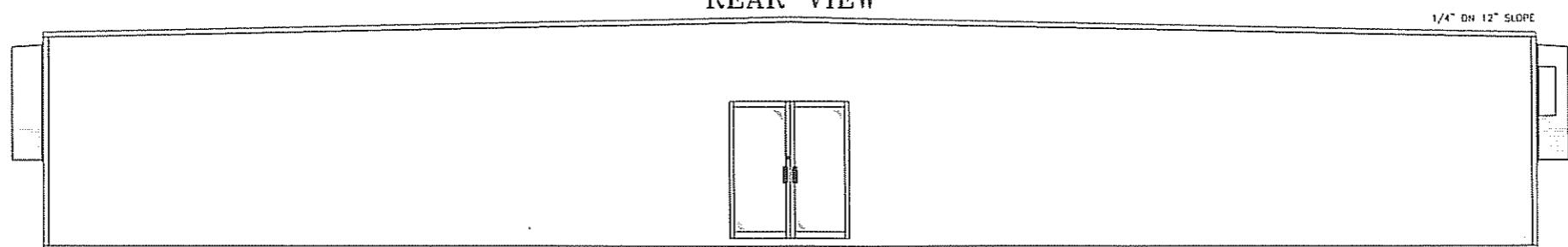
STREET SIDE



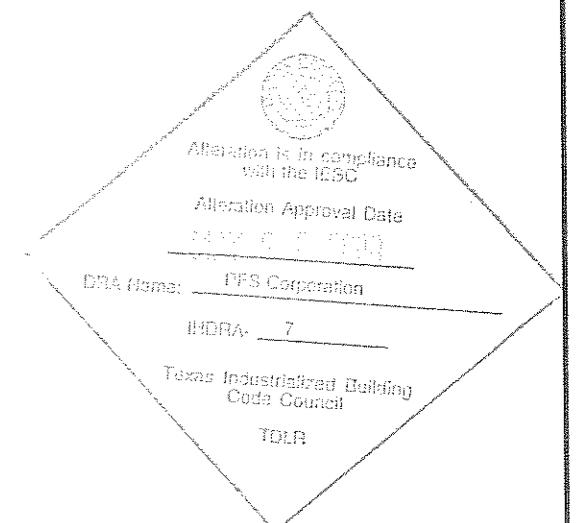
FRONT VIEW



REAR VIEW



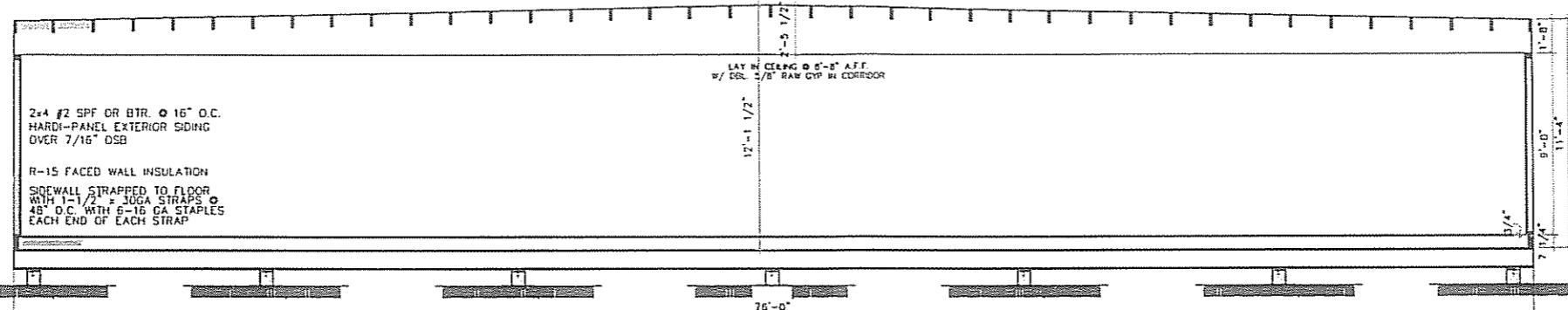
CURB SIDE



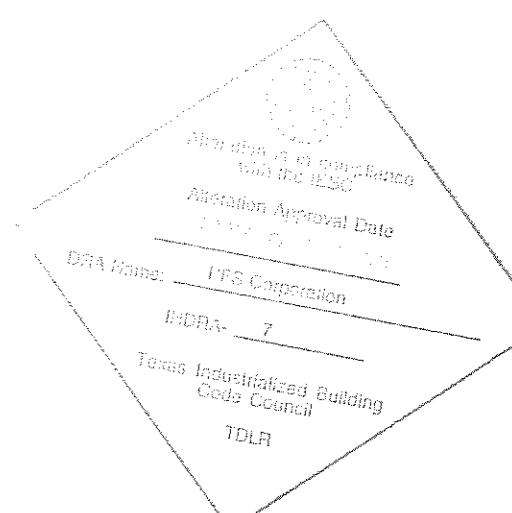
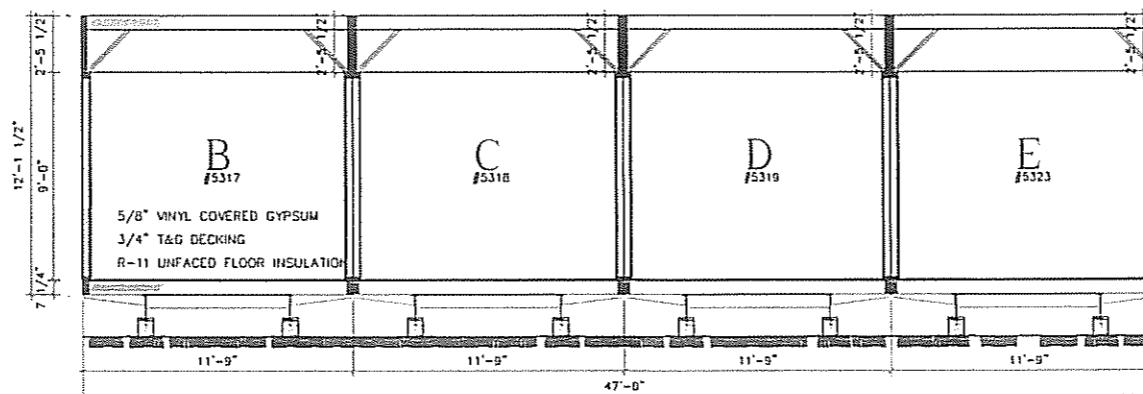
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LTR	REVISION	BY	DATE	DRAWN BY: REW	PROJECT: NORTEX MODULAR SPACE	TITLE: ELEVATIONS	DWG#	SHEET:	NORTEX MODULAR SPACE
				DATE: 05/08/08	SCALE: 1/8" = 1'-0"	SALES PERSON:	4276AMREC	A-201	 555 JUBILEE LANE LEWISVILLE, TX 75056 PHONE: 972-492-4040 FAX: 972-492-2704

045 EPDM (U.L. R-13850) ROOFING  
 OVER 7/16" OSB & 1/4" BENS DECK  
 2x8 #2 SYP. OR BTR. @ 24" O.C.  
 R-19 UNFACED ROOF INSULATION  
 SNG 2XB #3 SYP RIM RAILS  
 PLACE 25 F.S. FOIL ON  
 UNDERSIDE OF RAFTERS  
 STRAP RAFTERS @ 48" O.C. TO  
 WALL STUD WITH 30GA .1-1/2"  
 STRAP WITH 6-16 GA STAPLES  
 EACH END OF EACH STRAP

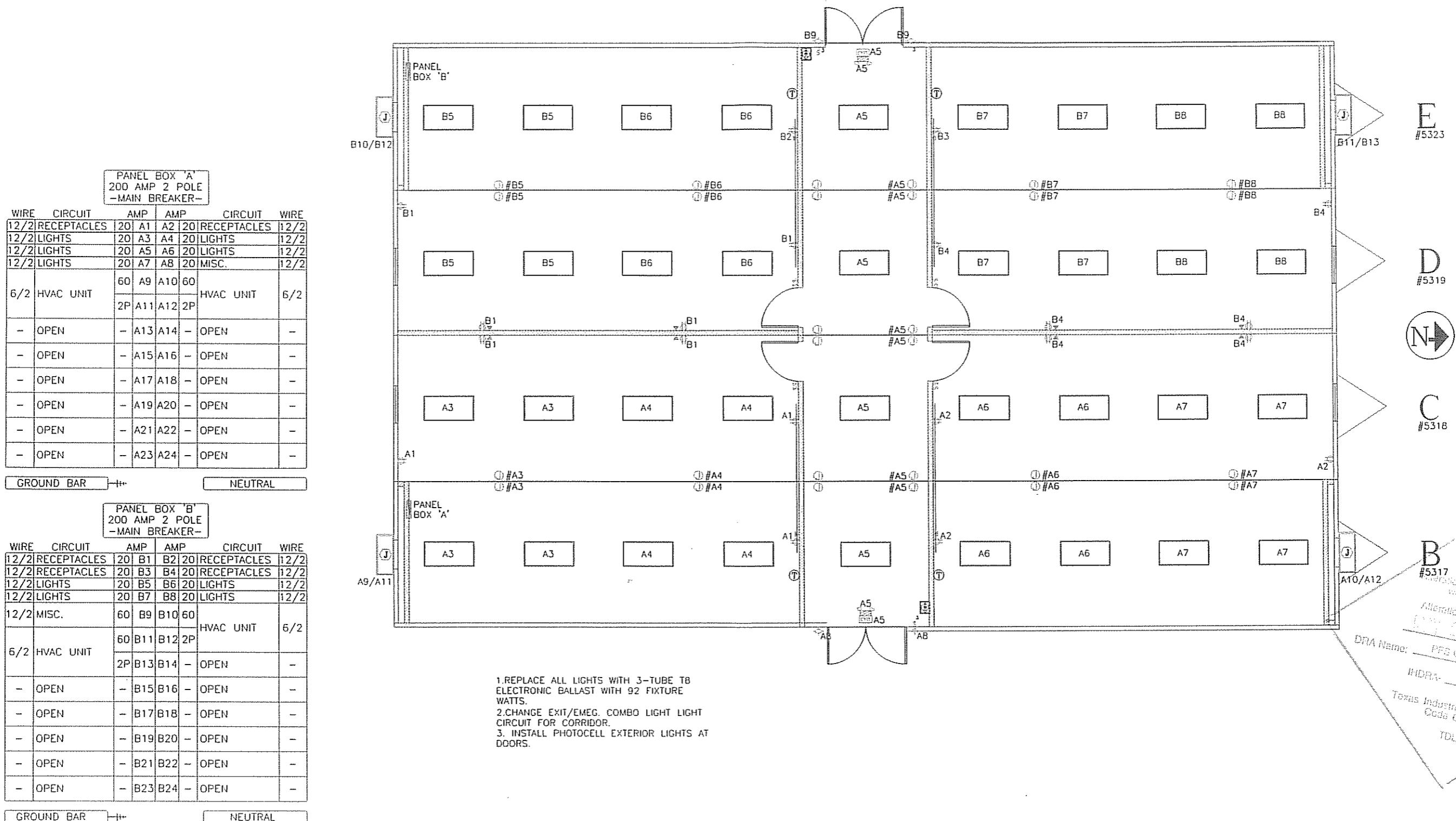


HOLD UP SIDING AT FLOOR JOISTS  
 #3 SPF/SYP 2x4 BOTTOM PLATE  
 2-2x8 SYP, No. 3 FLOOR RIM JOIST  
 2x8 SYP #2 OR BTR. FLOOR JOIST @ 16" O.C.  
 12" JR. I-BEAM  
 WOVEN POLYETHYLENE BOTTOM BD.



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LTR	REVISION	BY	DATE	DRAWN BY:	PROJECT:	TITLE:	SECTION		NORTEX MODULAR SPACE
				REW	NORTEX MODULAR SPACE				 555 JUBILEE LANE LEWISVILLE, TX 75056 PHONE: 972-492-4040 FAX: 972-492-2704



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LTR	REVISION	BY	DATE	DRAWN BY:	PROJECT:	TITLE:		
				REW	NORTEX MODULAR SPACE	ELECTRICAL PLAN	DWG#	4276AMREC

PANEL "A"

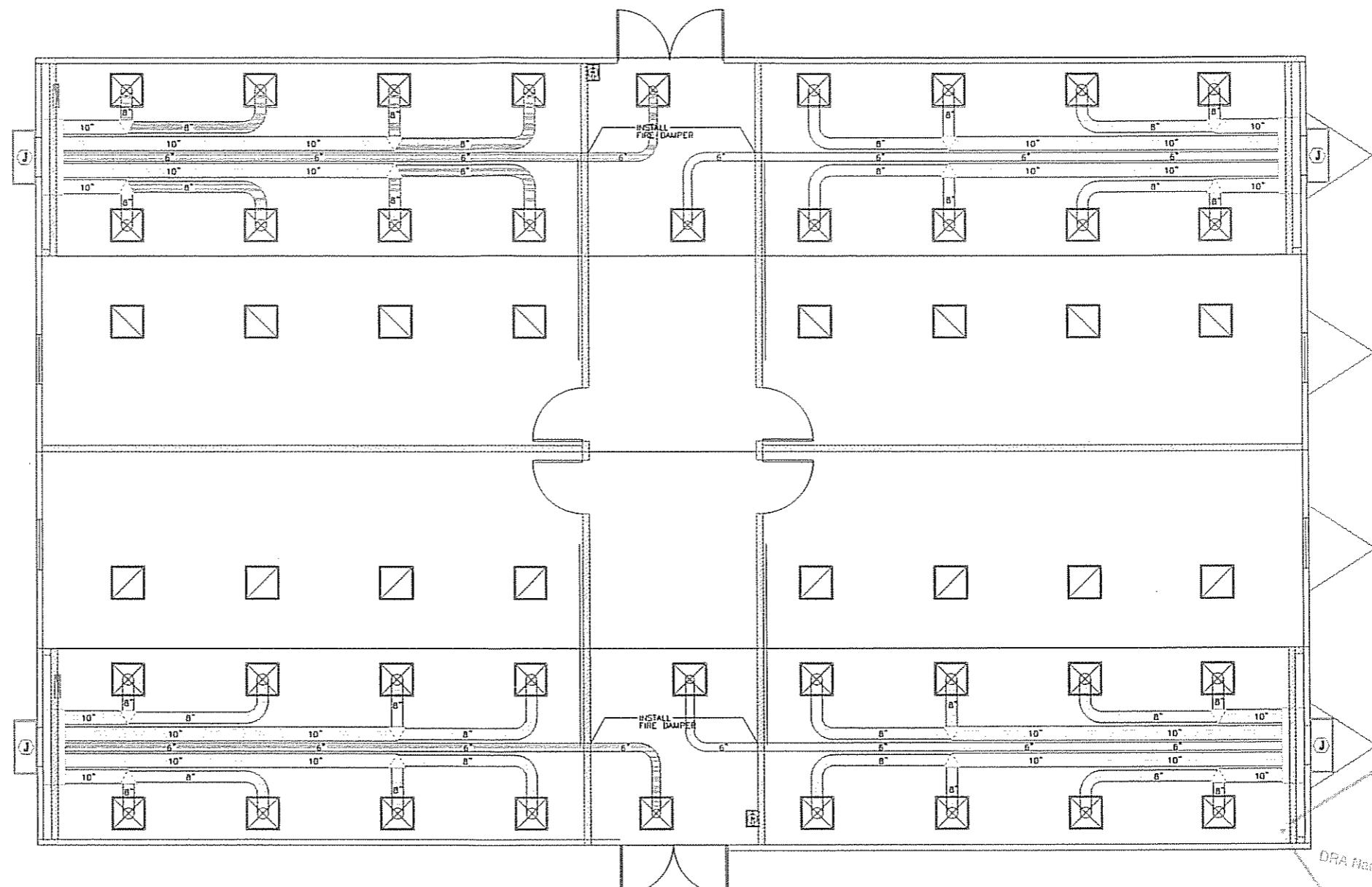
PANEL "A"													
		VOLTS		PHASE		BREAKER		VOLTS = V x #LEGS		#6 BARE GROUND			
		120		240		200		240		200			
WIRE	DESCRIPTION	BREAKER	POLE	CONNECTION LOAD		CIRCUIT NO.		CONNECTION LOAD		POLE	BREAKER		
				A(AMPS)	A(WATTS)	B(AMPS)	B(WATTS)	A(AMPS)	A(WATTS)	B(AMPS)	B(WATTS)		
12	RECEPTACLES	20	1	4.5	540			1	A	2	4.5	540	
12	RECEPTACLES	20	1			4.5	540	3	B	4		3.68	369.6
12	LIGHTS,EXT/EMEG COMBO	20	1	3.14	376.8			5	A	6	3.08	369.6	
12	LIGHTS	20	1			3.08	369.6	7	B	8		0.22	25.4
6	HVAC	60	2	47	5640			9	A	10	47	5640	
6	HVAC	60	2			47	5640	11	B	12		47	5640
				0	0			13	A	14	0	0	
						0		15	B	16		0	0
						0		17	A	18		0	
						0		19	B	20		0	
						0		21	A	22		0	
						0		23	B	24		0	
						0		25	A	26		0	
						0		27	B	28		0	
						0		29	A	30		0	
						0		31	B	32		0	
						0		33	A	34		0	
						0		35	B	36		0	
						0		37	A	38		0	
						0		39	B	40		0	
						0		41	A	42		0	
				54.64	6556.8	54.58	6549.6					54.58	6549.6
								TOTAL A	13166.4	WATTS	51.01%		
								TOTAL B	12585.6	WATTS	48.99%		
									25692	WATTS			
									107.05	AMPS			
									133.8125	20%			
								SIZE	200	AMPS			

PANEL "B"

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LTR	REVISION	BY	DATE	DRAWN BY: REW	PROJECT: NORTEX MODULAR SPACE	TITLE: ELECTRICAL LOADS		NORTEX MODULAR SPACE
				DATE: 05/08/08	SCALE: NTS	SALES PERSON:	DWG# 4276AMREC	SHEET: E-102
							555 JUBILEE LANE LEWISVILLE, TX 75056 PHONE: 972-492-4040 FAX: 972-492-2704	

OCCUPANTS : 179  
 CFM REQ'D EACH : 15 CFM  
 TOTAL OUTSIDE REQD : 2685 CFM



THE HVAC SYSTEM SHALL REMAIN INTACT.  
 SEE PREVIOUS APPROVED TDLR DRAWINGS  
 FOR INFORMATION REGARDING DUCT SIZING,  
 ETC..

Alteration is in compliance  
with the IBC  
Alteration Approval Date  
10/10/08  
DRA Name: PPS Corporation  
#DRA: 7

Texas Industrialized Building  
Code Council  
TDLR

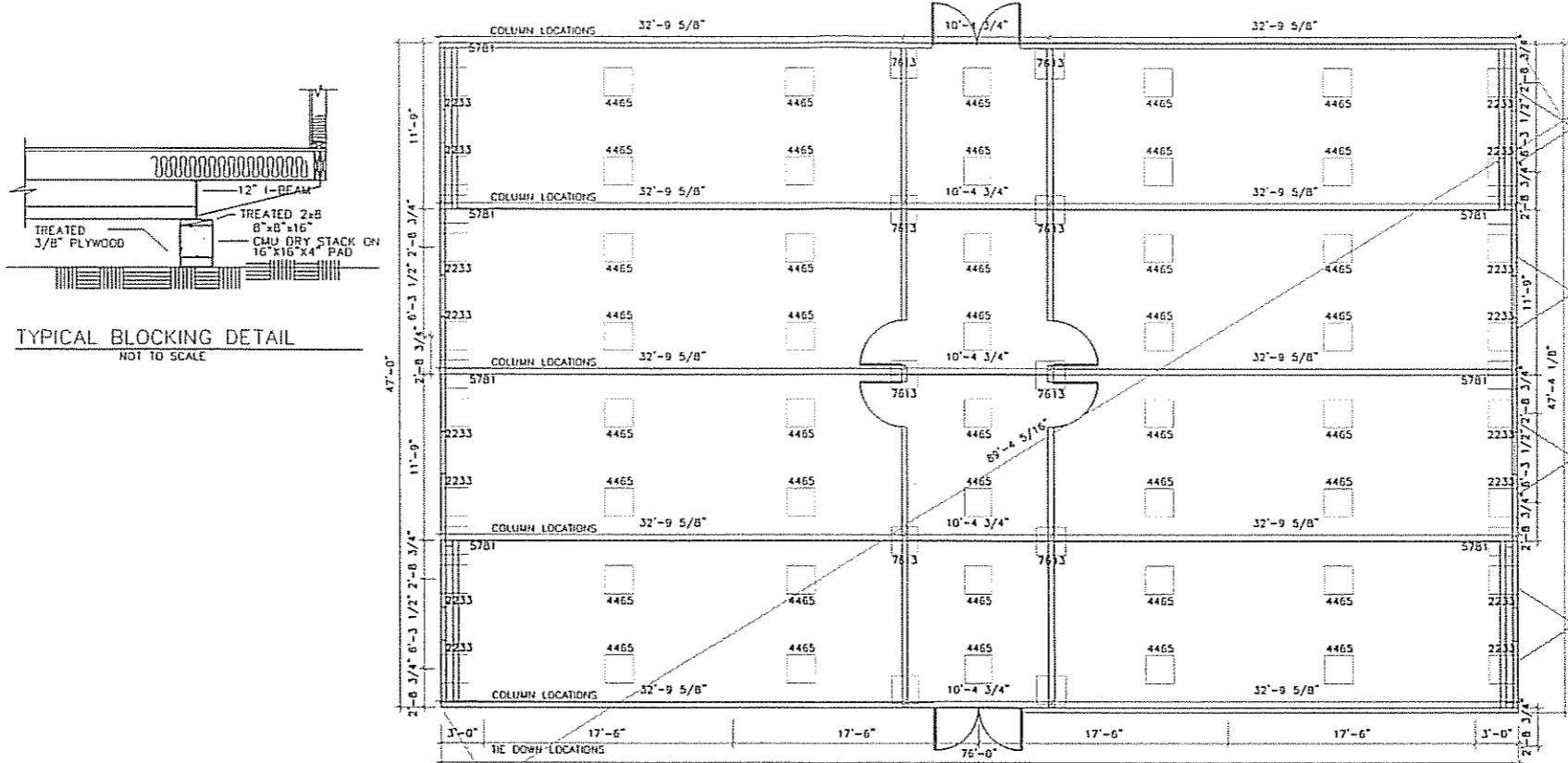
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**NORTEX MODULAR SPACE**

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LTR	REVISION	BY	DATE	DRAWN BY: REW	PROJECT: NORTEX MODULAR SPACE	TITLE: MECHANICAL PLAN	DWG#	SHEET:
					DATE: 05/08/08	SCALE: 3/16" = 1'-0"	SALES PERSON:	E-101



**NOTES:**  
 1. SOIL CAPACITY IS ASSUMED TO BE 2500 PSF.  
 2. PIER SPACING IS BASED ON PRECAST PAD SIZE OF 24" x 24" x 8"

Alteration is in compliance  
with the IEBC  
Alteration Approval Date  
10/1/08  
DRAWN BY: PFS Corporation  
INDRA- 7

Texas Industrialized Building  
Code Council

TDLR

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LTR	REVISION	BY	DATE	DRAWN BY: REW	PROJECT: NORTEX MODULAR SPACE	TITLE: BLOCKING PLAN	
			DATE: 05/08/08	SCALE: 1/8" = 1'-0"	SALES PERSON:	DWG# 4276AMREC	SHEET: S-101

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