

**SCOPE OF WORK**

1. Uninstall and relocate pallet racks from warehouse in building O1 to warehouse in building O2 as specified in drawings.
2. Patch any holes left in concrete floor of building O1 upon removal of pallet racks using traffic rated cement grout .
3. Contractor to relocate 2 fire extinguishers cabinets in Warehouse 2 of Building O2 (indicated on plans and images).
4. Contractor to relocate light switches (indicated on plans and images).
5. Demo and remove unused vents and associated electrical conduit/switch from Warehouse 1 in Building O2 (indicated on plans and images).
6. Cut and cap indicated duct at elbow near ceiling in warehouse 1 of Building O2.
7. Patch back and infill wall assembly where vents were demoed.
8. Provide and install a total of (24) bays of new pallet racking with (4) vertical storage sections and (3) horizontal sections per selective rack system in warehouse 1 of building O2 as indicated in layout:  
Uprights: 14 GA 42" X 240"  
Beams" 3-3/4" X 96" 3 pin
9. Relocate indicated pallet racking from high bay storage rm. 102 warehouse in building O1 to warehouse 1 & 2 in building O2 as indicated in drawings
10. Newly installed and relocated racks to be 20' high with 6' of storage space between levels and 8' between columns.
11. Wire decks for pallet rack bays to be rated for at least 2000 lbs.
12. All pallet racks to be securely anchored to the floor using anchor bolts and 5" x 8" base plate
12. Contractor to provide data sheets, structural calculations prepared and stamped by a Structural Engineer licensed in the state of California and all specifications for proposed racking system.
13. Contractor to modify racks relocated to warehouse 2 of Building O2 in order to prevent obstruction of indicated doors and security cameras.
14. Adjacent equipment and furnishings must be protected.



Project Title  
O1, O2  
Warehouse Pallet  
Racking  
Relocation and  
Install

Revisions		
Number	Description	Date

Sheet Title

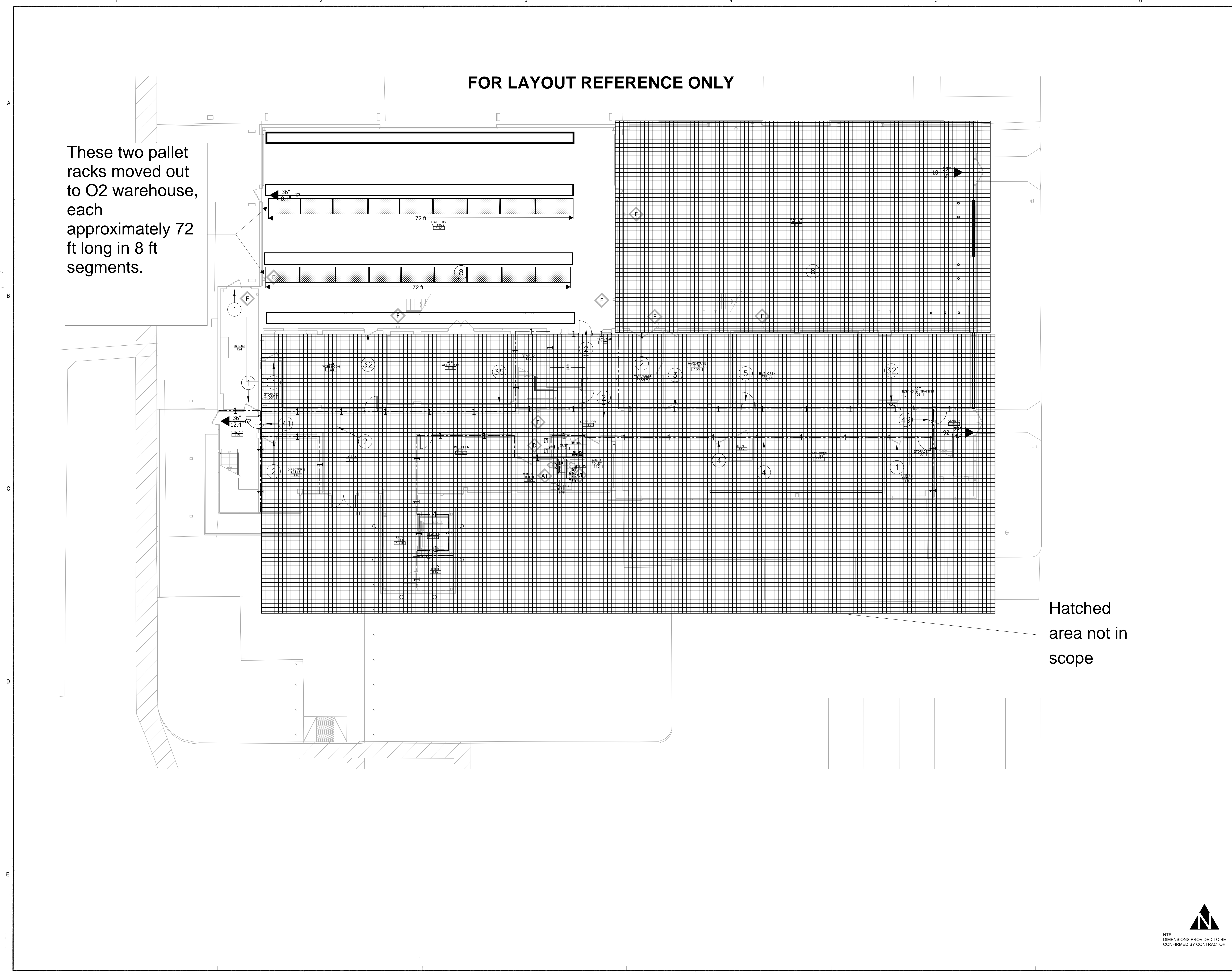
Title Page

Sheet Number

ASK - 001

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DIMENSIONS PROVIDED TO BE  
CONFIRMED BY CONTRACTOR







Project Title  
**O1, O2 Warehouse Pallet Racking Relocation and Install**

Revisions		
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**O1 Warehouse Existing Rack Layout**

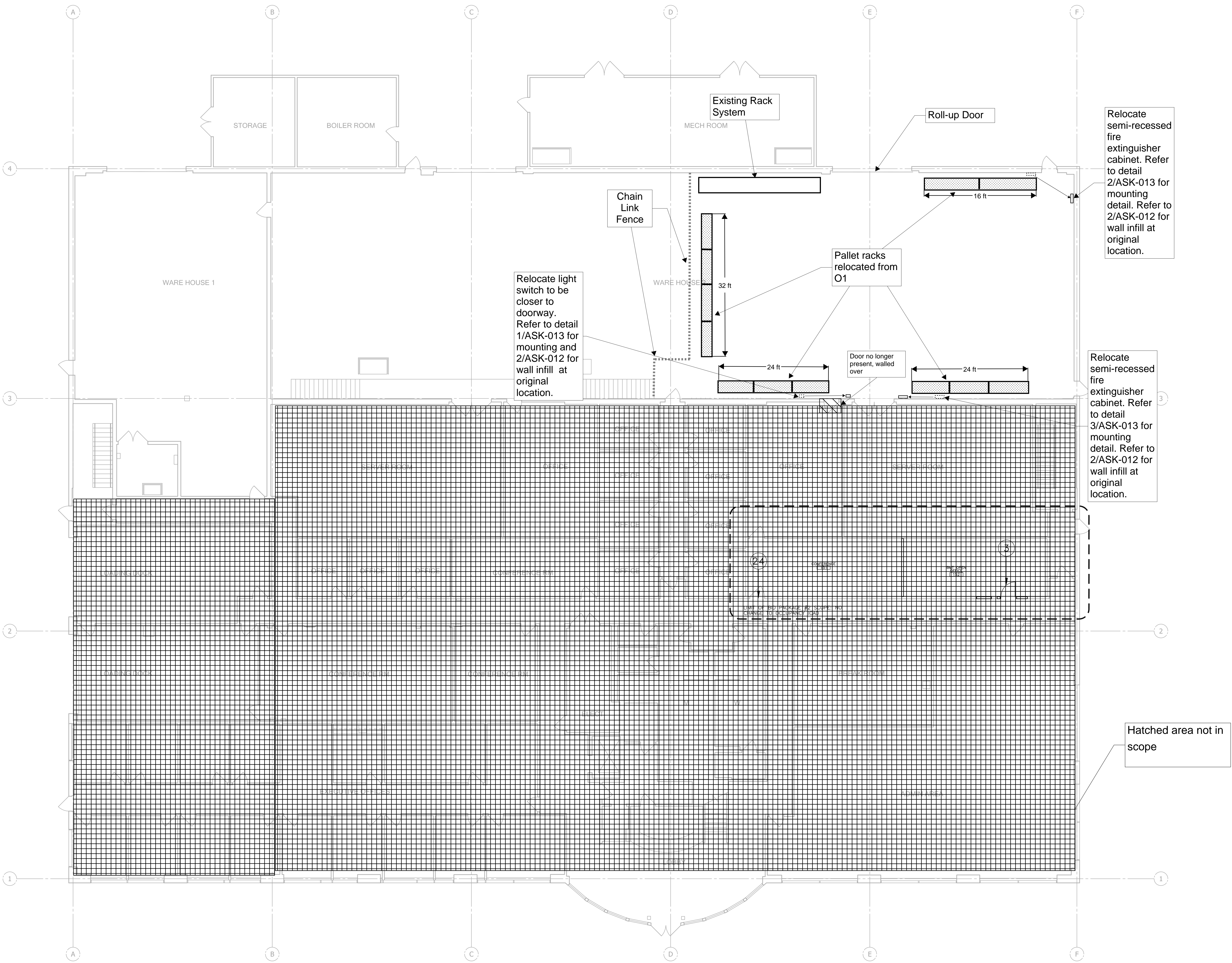
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**ASK - 002**



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FOR LAYOUT REFERENCE ONLY



Project Title  
**O1, O2**  
**Warehouse Pallet**  
**Racking**  
**Relocation and**  
**Install**

Revisions		
Number	Description	Date

Sheet Title  
**O2**  
**Warehouse 2**  
**Rack Layout**

Sheet Number  
**ASK - 003**





FOR LAYOUT REFERENCE ONLY

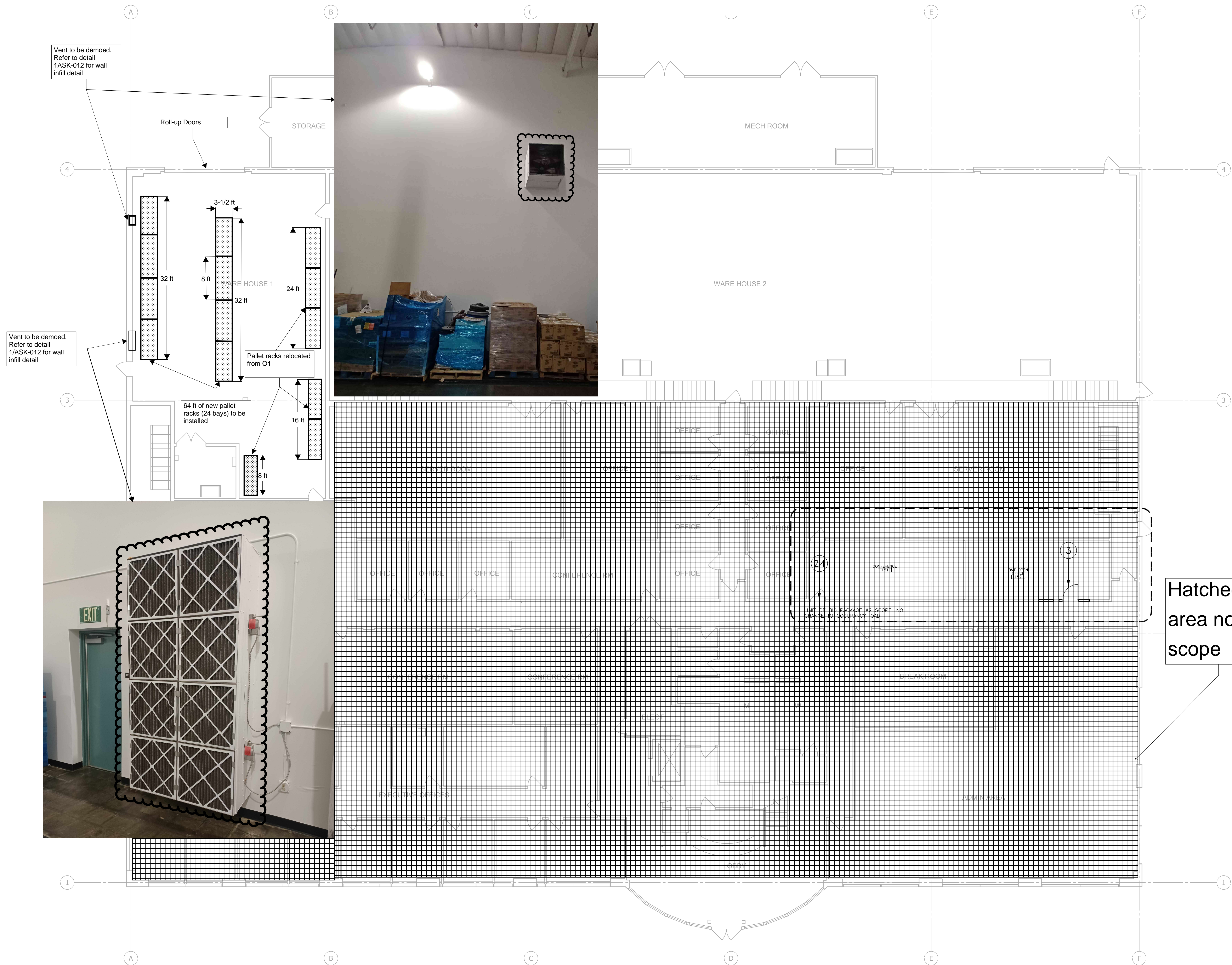


Project Title  
O1, O2  
Warehouse Pallet  
Racking  
Relocation and  
Install

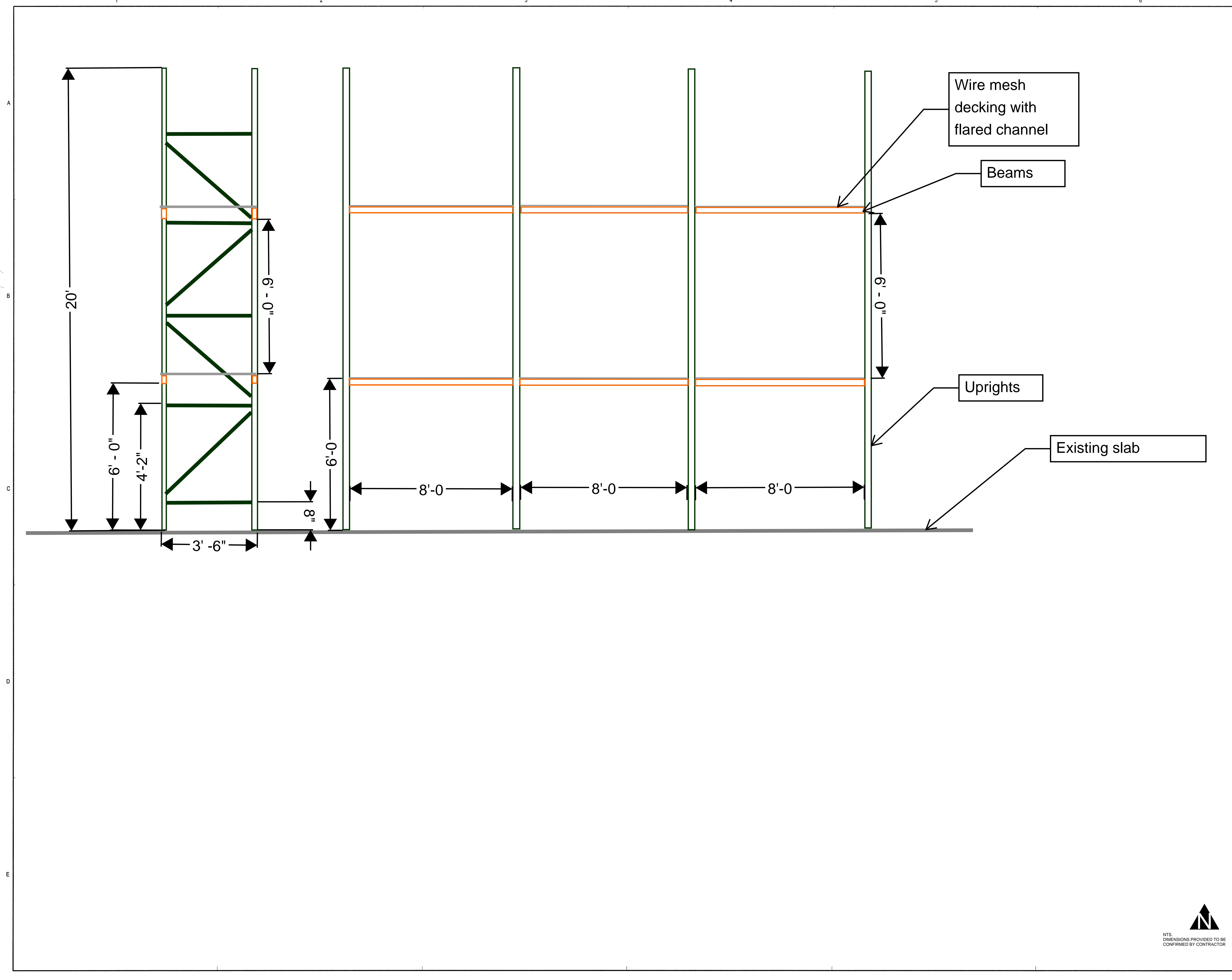
Revisions  
Number Description Date

Sheet Title  
O2  
Warehouse 1  
Rack Layout

Sheet Number  
ASK 004









Project Title

O1, O2

Warehouse Pallet Racking Relocation and Install

Revisions		
Number	Description	Date

Sheet Title

Warehouse Rack Configuration

Sheet Number

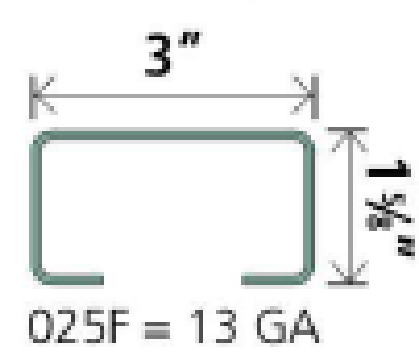
ASK-005



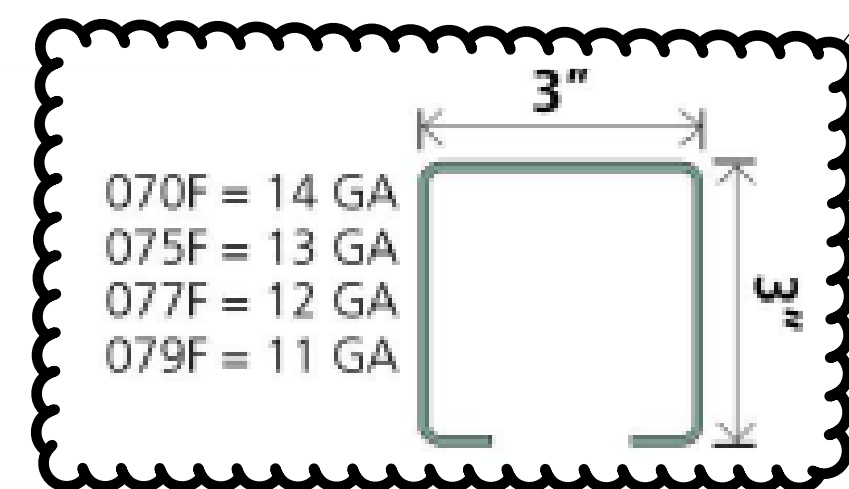
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A  
B  
C  
D  
E

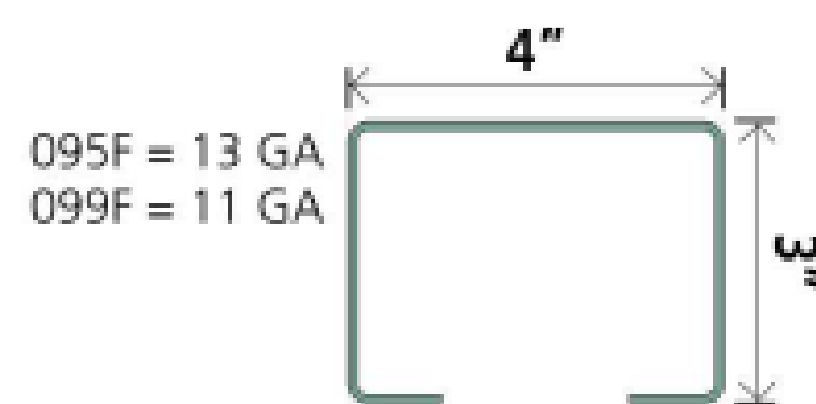


025F = 13 GA



070F = 14 GA  
075F = 13 GA  
077F = 12 GA  
079F = 11 GA

Uprights



095F = 13 GA  
099F = 11 GA

Welded Frame Capacities (lbs)

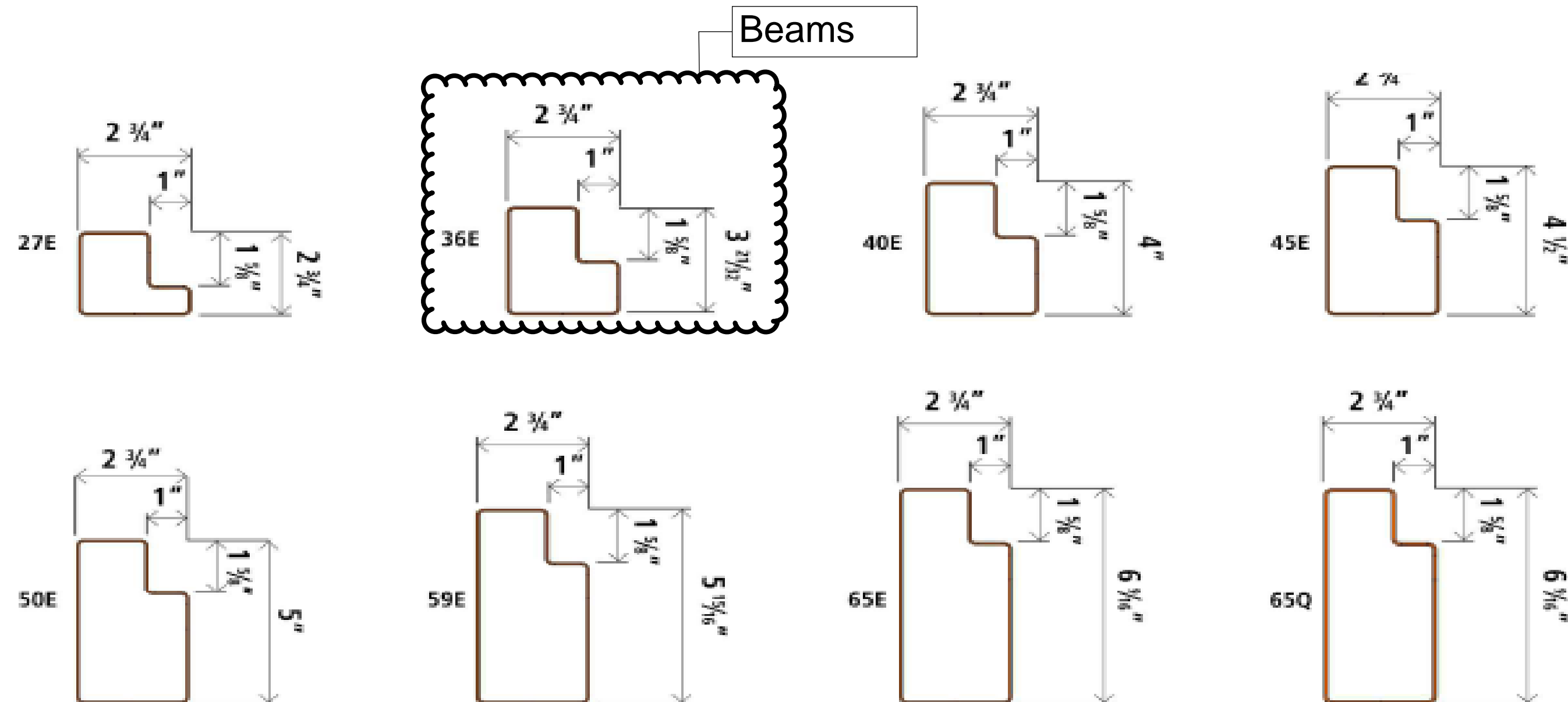
	Model	025F	070F	075F	077F	079F	095F	099F
	Gauge	13 GA (0.090")	14 GA (0.070")	13 GA (0.090")	12 GA (0.105")	11 GA (0.120")	13 GA (0.090")	11 GA (0.120")
Maximum Unsupported Height (HbL)	36"	23,400	28,600	38,400	44,300	50,000	37,500	60,200
	42"	21,900	25,900	34,600	39,800	44,900	37,500	60,200
	48"	19,300	23,000	30,600	35,200	39,700	36,300	57,900
	54"	16,700	20,000	26,400	30,400	34,300	33,900	53,200
	60"	15,000	17,700	23,100	26,600	30,000	31,300	48,400
	66"	13,400	16,000	20,900	24,000	27,100	28,500	43,500
	72"	11,700	14,400	18,700	21,400	24,100	25,800	38,700
	78"	10,300	12,800	16,500	19,000	21,300	23,200	34,500
	84"	9,100	11,400	14,700	16,900	19,000	21,700	31,900
	90"	8,000	10,200	13,100	15,100	16,900	20,100	29,400
	96"	7,100	9,200	11,800	13,500	15,200	18,600	26,800

HbL = Height between levels

- Capacities are per the 2012 RMI and ANSI MH16, 1 2012 specifications.
- Frame capacities shown include product load plus dead load (dead load = 2% of product load).
- Maximum unsupported height (Height between levels) is the maximum beam spacing or the distance between the floor and the top of the first beam (whichever is greater).
- Capacities are only valid when used with Interlake Mecalux published beam sizes.
- Capacities are valid for static load only.
- These capacities assume that all component parts are: (1) Manufactured by Interlake Mecalux, (2) In good condition, (3) Properly installed.

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## Upright Capacity Chart



Beams

8' spacing  
between  
rack bays

Beam Capacities (lbs per pair)

Span	27E	36E	40E	45E	50E	59E	65E	65Q
	F3M - 6" 3 Tab End Plate			F4M - 8" 4 Tab End Plate		F5M - 10" 5 Tab End Plate		
48"	5,620	8,065	9,450	11,090	12,895	16,870	17,115	27,745
54"	5,080	7,235	8,470	9,950	11,550	15,110	17,110	24,755
60"	4,645	6,575	7,685	9,035	10,470	13,705	15,845	22,365
66"	4,285	6,030	7,040	8,285	9,585	12,555	14,500	20,410
72"	3,985	5,580	6,500	7,660	8,845	11,590	13,375	18,780
78"	3,505	5,195	6,045	7,130	8,220	10,775	12,425	17,395
84"	3,075	4,865	5,650	6,675	7,685	10,075	11,610	16,210
90"	2,625	4,490	5,210	6,160	7,075	9,285	10,685	14,870
96"	2,435	4,165	5,015	5,930	6,810	8,935	10,280	14,285
102"	2,195	3,730	4,475	5,625	6,445	8,465	9,730	13,490
108"	1,990	3,360	4,030	5,350	6,125	8,050	9,245	12,780
114"	1,815	3,050	3,650	5,035	5,835	7,670	8,805	12,145
120"	1,660	2,780	3,320	4,585	5,575	7,335	8,410	11,575
126"	1,530	2,545	3,040	4,200	5,220	7,025	8,055	11,060
132"	1,415	2,345	2,795	3,865	4,795	6,585	7,475	10,590
138"	1,310	2,165	2,575	3,570	4,420	6,070	6,890	10,160
144"	1,220	2,010	2,385	3,305	4,090	5,620	6,370	9,765
150"	1,140	1,870	2,220	3,075	3,800	5,220	5,915	9,400
156"	1,070	1,745	2,065	2,870	3,535	4,865	5,505	9,030
162"	1,005	1,630	1,930	2,685	3,305	4,545	5,140	8,415
168"	945	1,530	1,810	2,515	3,095	4,260	4,815	7,860

- Capacities are per the 2012 RMI and 2001 AISI specifications.
- Interlake Mecalux beams over 126" L require bracing to prevent buckling.
- Beams longer than 90" that support decking must be tied together to prevent spreading (IK0258 crossbar).
- Loading to be uniformly distributed over the length of the beam.
- Values shown reflect the capacity of the beams based on the lesser of its strength in bending, or L/180 deflection criteria.

- Load capacities are for uniformly distributed product load plus dead load per pair of beams (dead load = weight of beams).
- Capacities are valid for static load only.
- These capacities assume that all component parts are: (1) Manufactured by Interlake Mecalux, (2) In good condition, (3) Properly installed.

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## Beam Capacity Chart



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Project Title

O1, O2  
Warehouse Pallet  
Racking  
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Sheet Title

Beams &  
Uprights  
Capacity Chart

Sheet Number

ASK-006





1 Beam Connection to Upright



2 Interior view of beam connection to Upright





1 Upright bracing configuration



2 Bracing connection to uprights

Revisions Number	Description	Date





1 Bracing welded connection to upright



2 Bracing sizing

Revisions Number	Description	Date



A

B

C

D

E



Project Title  
O1, O2  
Warehouse Pallet  
Racking  
Relocation and  
Install

Revisions		
Number	Description	Date

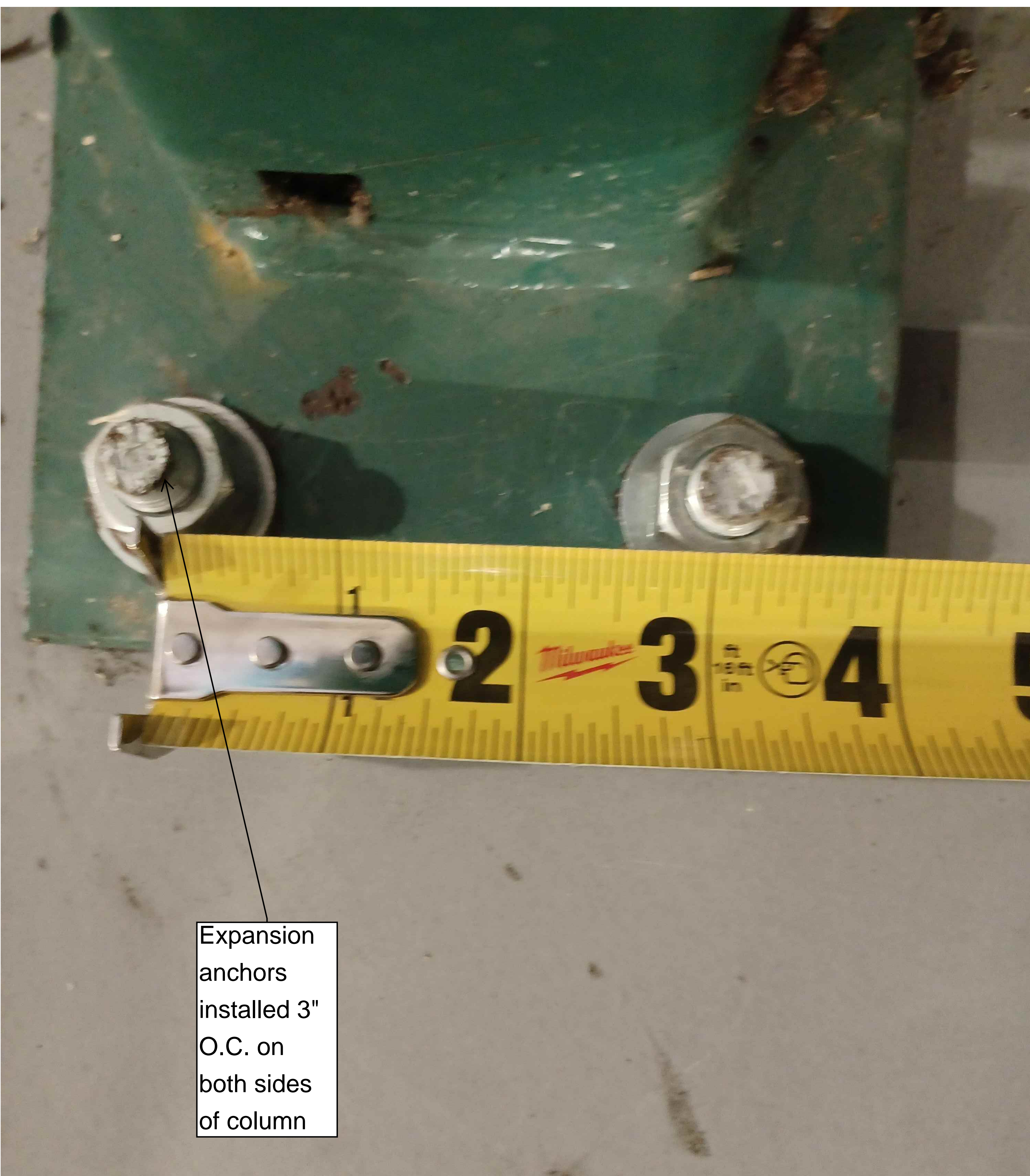
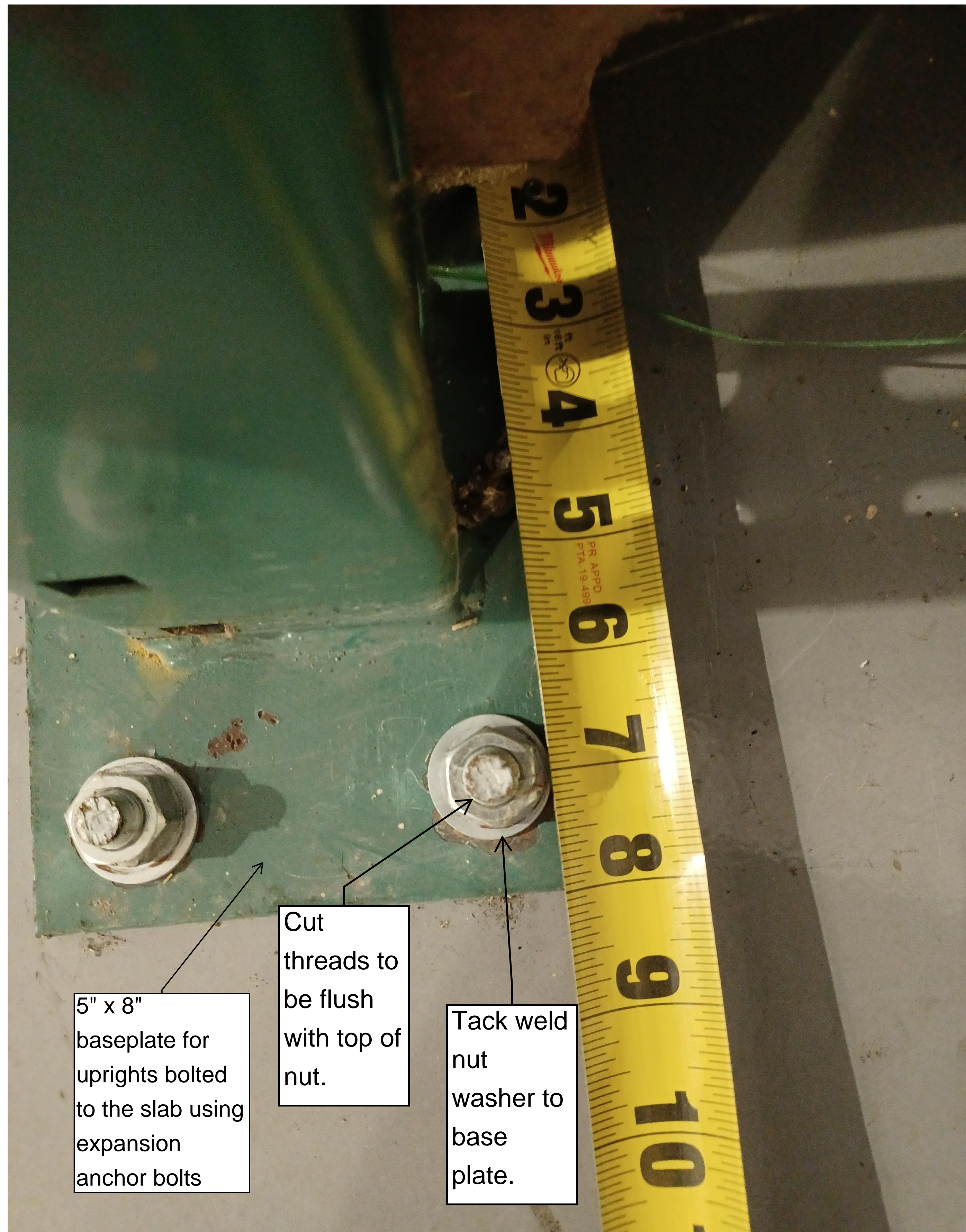
Sheet Title

Uprights Details

Sheet Number

ASK-010





Project Title  
 O1, O2  
 Warehouse Pallet  
 Racking  
 Relocation and  
 Install

Revisions		
Number	Description	Date

Sheet Title

Baseplate  
 Details

Sheet Number

ASK-011



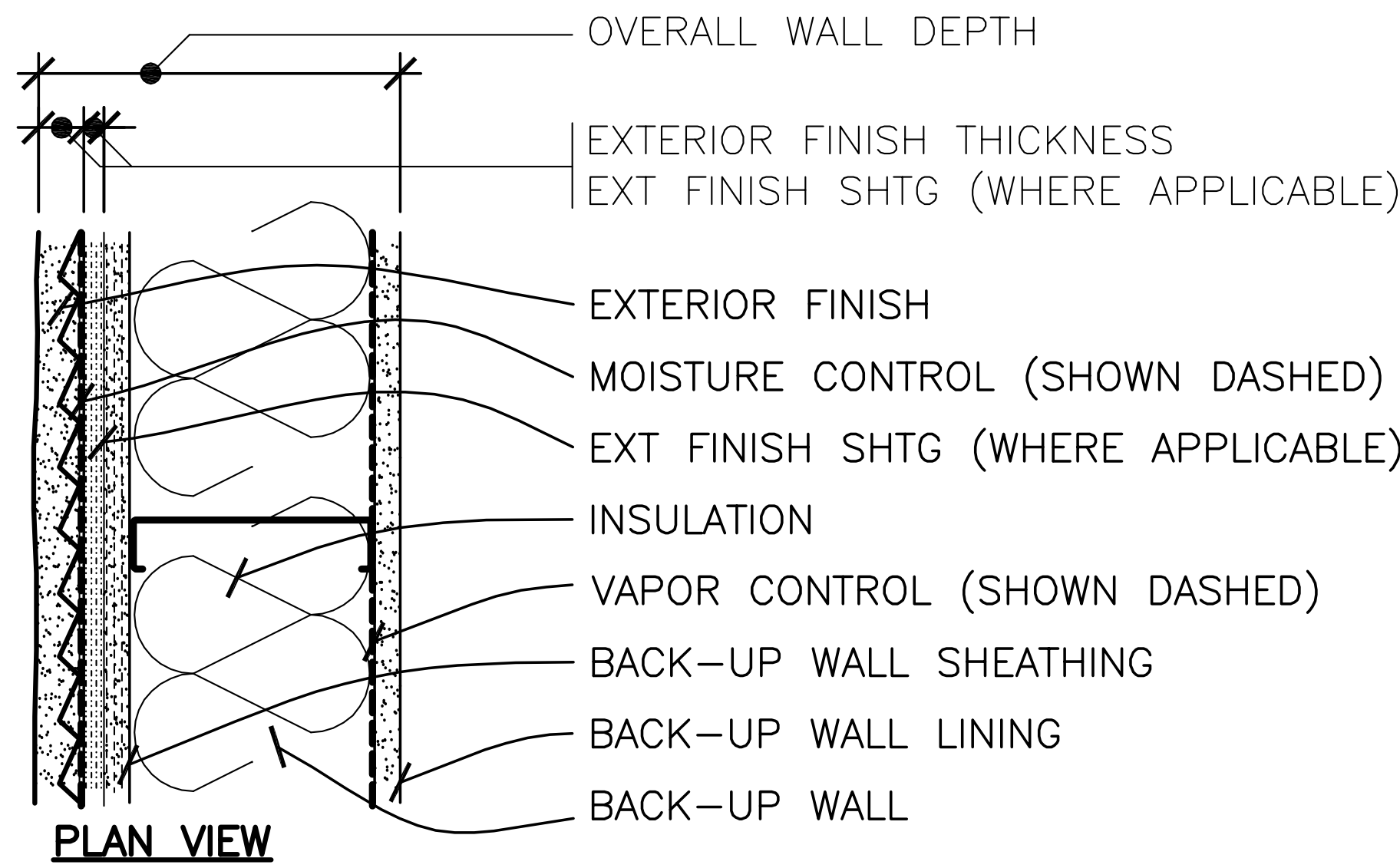
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CEMENT PLASTER  
(STUCCO) VENEER

STEEL STUD  
BACK-UP WALL  
(STUD INSUL)



WALL TYPE	EXTERIOR FINISH			MOIST CONTRL	EXT FIN SHTG	INSULATION		VAPOR CONTRL	BACK-UP WALL			WALL DEPTH	NOTES
	MATERIAL	THK	LATH			TYPE	THICKNESS		SHTG	STUDS	LINING		
UL1	PLAS-12	3/4"	METAL	BP-1	NONE	INSUL-21	6"	(SEE INSUL)	GYP SHTG-2	6" @ 16" OC	GYP BD-1	8"	1,2,4
UL2	PLAS-12	1"	METAL	AB-1	WD SHTG-2	INSUL-20	6"	VR-1	GYP SHTG-1	6" @ 16" OC	GYP BD-1	9"	1,3,5
UL3	PLAS-12	3/4"	METAL	BP-1	CEM SHTG-1	INSUL-24	6"	VR-2	GYP SHTG-1	6" @ 16" OC	GYP BD-1	8 1/2"	1,3,5
UL4													
UL9													

NOTE: WALL TYPES NOT REFERENCED ON DRAWINGS MAY NOT BE REQUIRED ON THIS PROJECT

NOTES: 1. SEE ROOM FINISH SCHEDULE & DWGS FOR INTERIOR WALL LINING VARIATIONS, WHERE APPLICABLE.  
2. ATTACH LATH TO STL FURG FASTENED OVER MOISTURE CONTROL TO STUDS BEHIND.  
3. ATTACH LATH OVER MOISTURE CONTROL THROUGH SHEATHING TO STUDS BEHIND.  
4. STUD SIZE & SPACING SHOWN IS MIN REQUIRED & MUST BE VERIFIED BY DESIGN OF SUPPLIER.

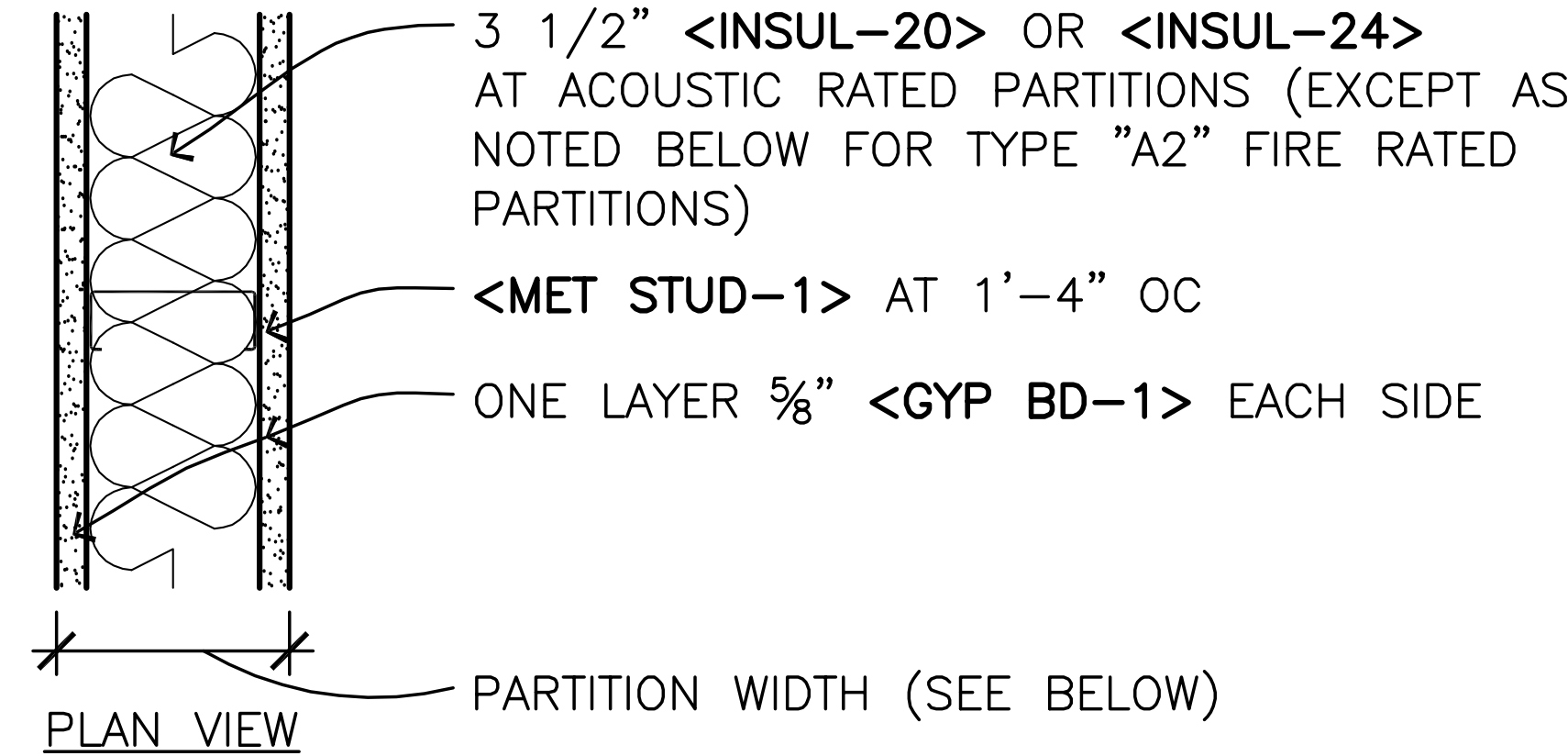
1

## Exterior Wall Infill

A SERIES

NON COMBUSTIBLE

AVAILABLE FIRE  
RESISTANCE: 1 HOUR



PARTITION TYPE	STUD WIDTH	PARTITION WIDTH	1 HOUR RATING REFERENCE	STC		NOTES	AS DRAWN DIMENSION
				W/O INSUL	W/ INSUL		
A2	2 1/2"	3 3/4"	UL DES NO U425	40-44	47 EST	1 HR REQD. 2 1/2" MIN OF <INSUL-20>	3 3/4"
A3	3 5/8"	5"	UL DES NO U465	40-44	45-49	1 HR REQD. 2 1/2" MIN OF <INSUL-20>	5"
A6	6"	7 1/4"	UL DES NO U465	40-44	45-49		7 1/4"
A8	8"	9 1/4"	UL DES NO U465	40-44	45-49		9 1/4"

NOTES: UL# U465 (NOTES APPLICABLE AT FIRE RATED PARTITIONS):

- CHANNEL SHAPED RUNNER, MATCH STUD WIDTH, 1 1/4" LEGS FORMED FROM MIN. NO. 22 MSG GALV STEEL, ATTACHED TO FLOOR AND CEILING WITH FASTENERS SPACED 24" OC MAX.
- STUDS, CHANNEL SHAPED, WIDTH AS INDICATED, 1 1/4" LEGS, 3/8" FOLDED BACK RETURNS, FORMED FROM MIN NO. 22 MSG GALV STEEL, SPACED @ 16" OC.
- GYP SUM BOARD, 5/8" THICK, 4 FOOT WIDE, ATTACHED TO STEEL STUDS AND FLOOR AND CEILING TRACK WITH 1" LONG, TYPE "S" STEEL SCREWS. SPACE 8" OC ALONG EDGES OF BOARD AND 12" OC IN THE FIELD OF THE BOARD. JOINT ORIENTED VERTICALLY AND STAGGERED ON OPPOSITE SIDES OF THE ASSEMBLY.
- VINYL, DRY OR PREMIXED JOINT COMPOUND, APPLIED IN TWO COATS TO JOINTS AND SCREW HEADS; PAPER TAPE, 2" WIDE, EMBEDDED IN FIRST LAYER OF COMPOUND OVER ALL JOINTS.

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## Interior Wall Infill Detail



Project Title  
O1, O2  
Warehouse Pallet  
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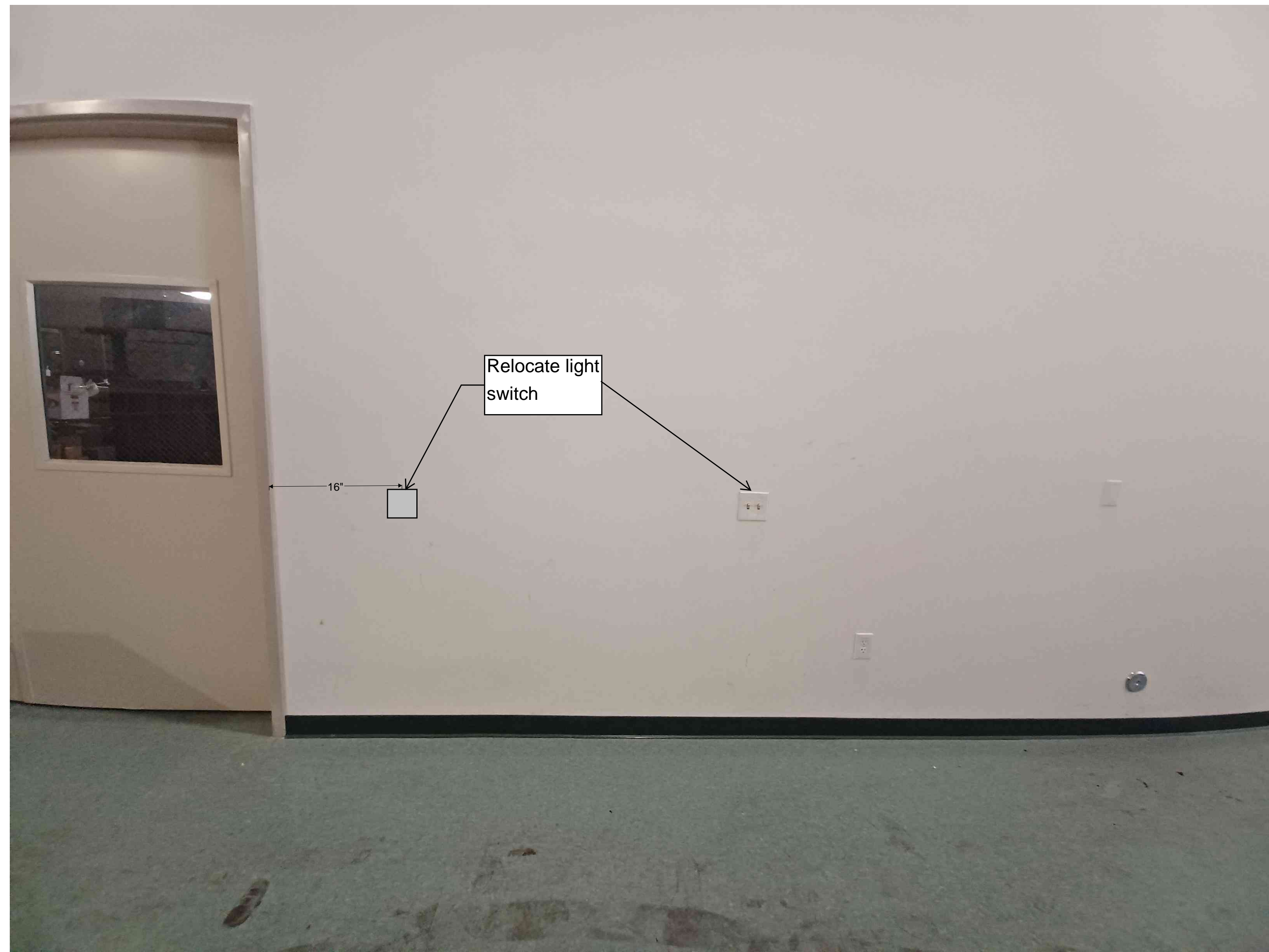
Wall Infill  
Details

Sheet Number

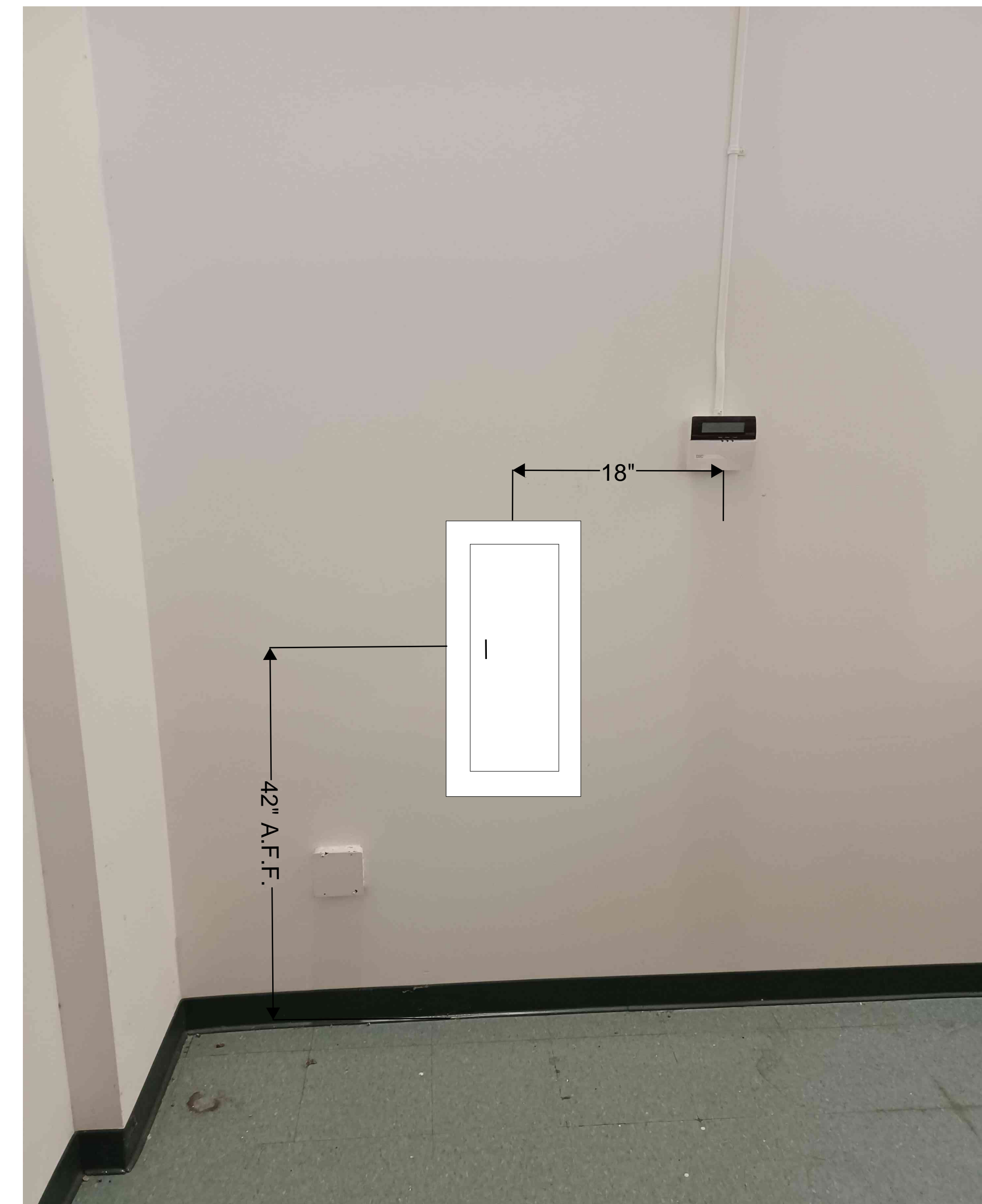
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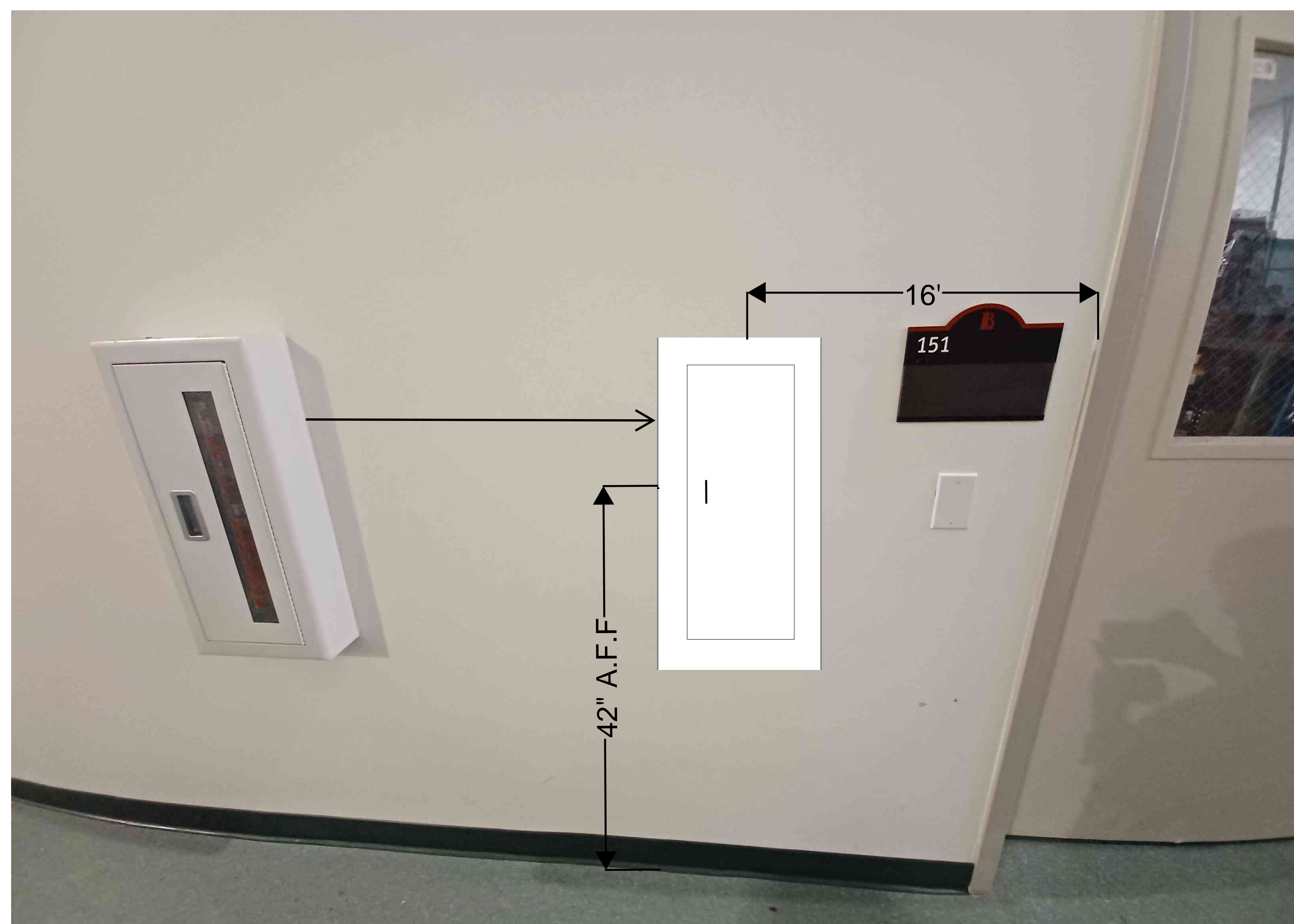




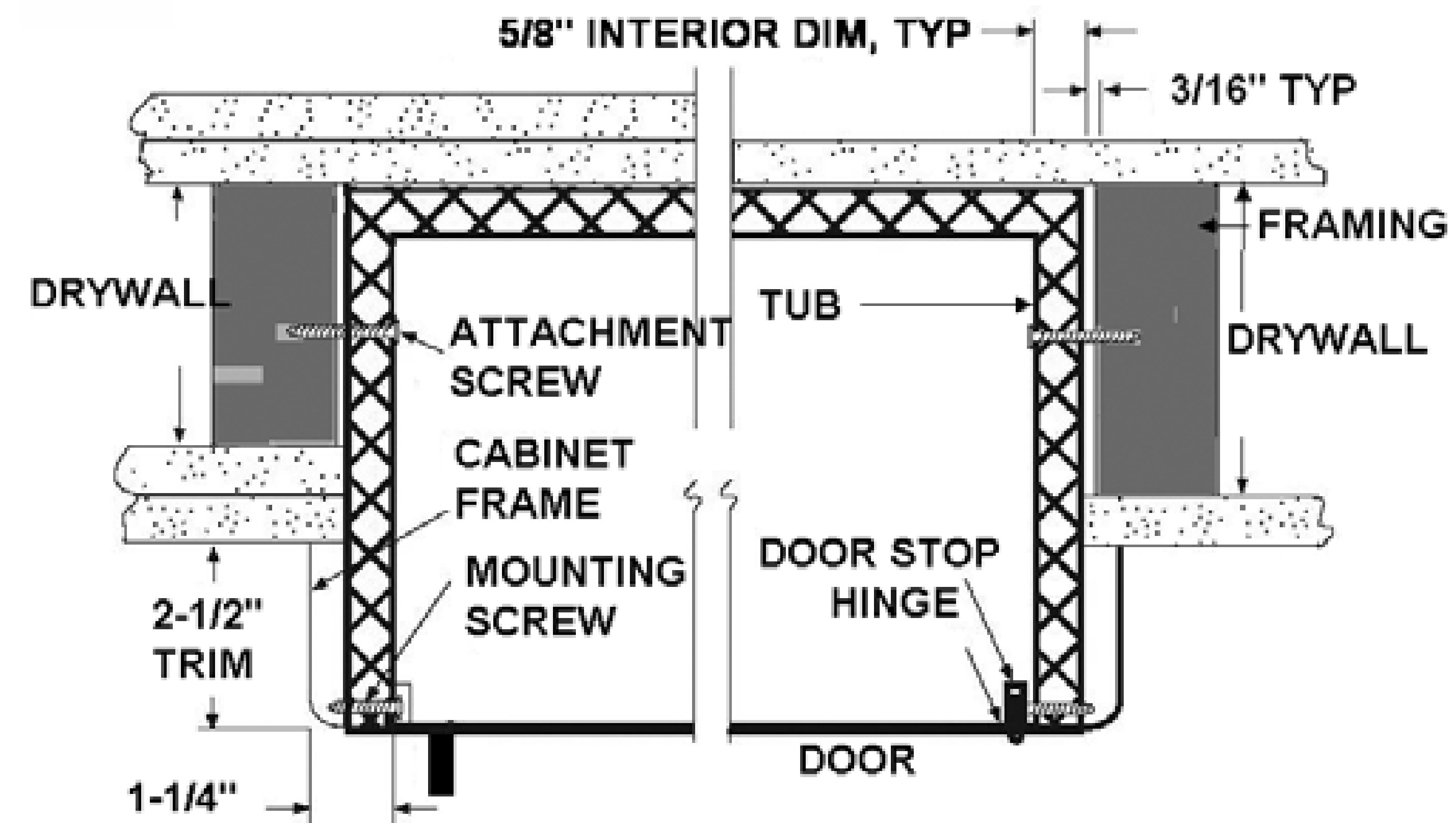
1 Light Switch Relocation



2 Fire Extinguisher Cabinet 1 Elevation



3 Fire Extinguisher Cabinet 2 Elevation



4 Fire Extinguisher Cabinet Mounting Detail

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