



City of Milpitas

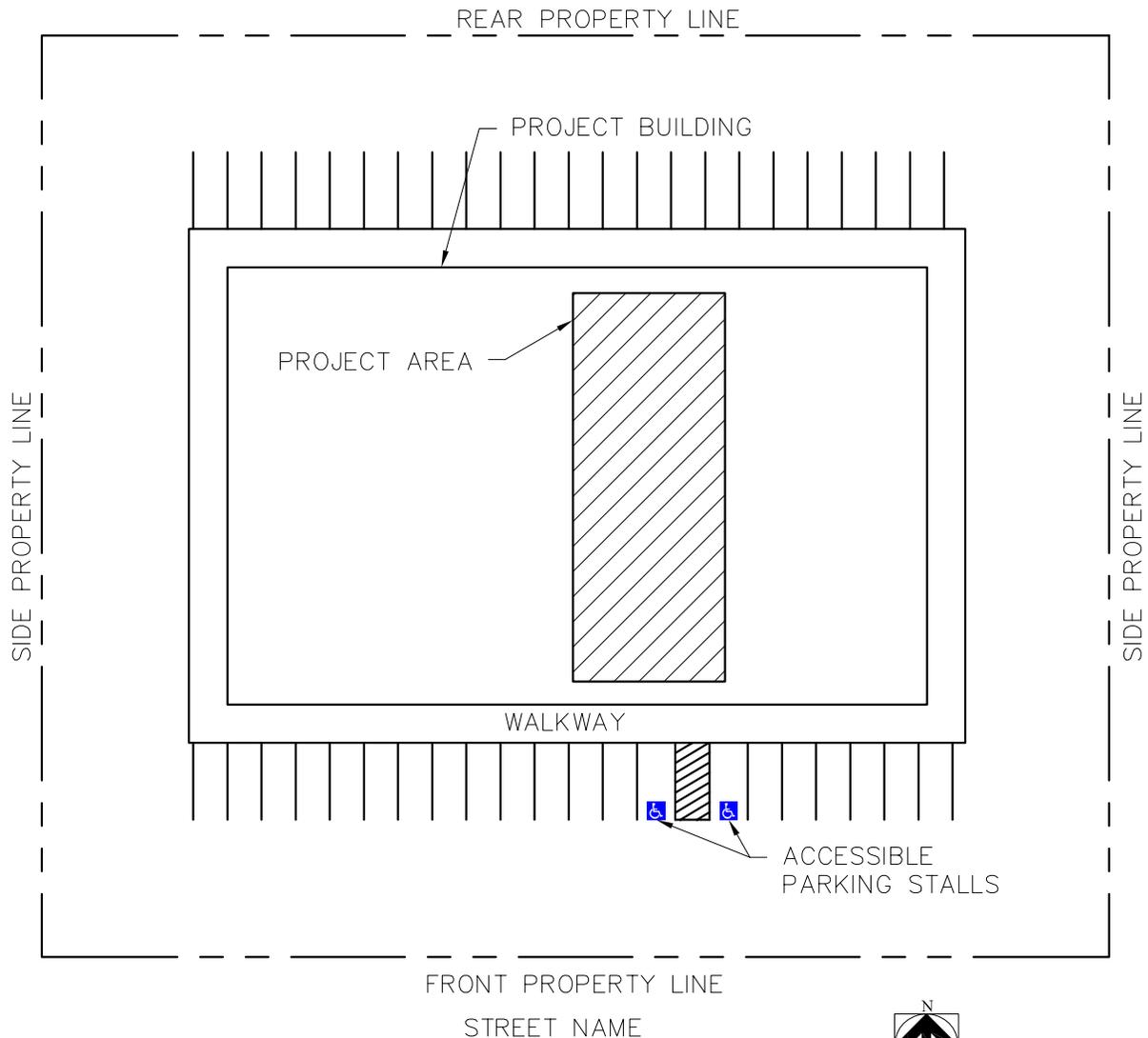
Building & Safety Department

DESIGN GUIDELINES FOR STORAGE RACK ANCHORAGE



455 E. Calaveras Blvd.
Milpitas, CA 95035
408-586-3240
www.ci.milpitas.ca.gov

JANUARY 2014



NOTE:

1. INDICATE PROPERTY LINES, STREET NAMES, LOCATION OF THE BUILDING, ALL PARKING INCLUDING ACCESSIBLE PARKING, AND NORTH ARROW SIGN.
2. INDICATE SCOPE OF WORK AND PROJECT AREA.
3. INDICATE TENANT SPACE ADDRESS.
4. INDICATE THE NAME, ADDRESS & TELEPHONE NUMBER OF THE PERSON WHO PREPARED THE PLANS.
5. INDICATE PROJECT INFORMATION:
 - TYPE OF CONSTRUCTION
 - TYPE OF OCCUPANCY
 - FIRE SPRINKLERS
 - SQUARE FOOTAGE OF BUILDING
 - SQUARE FOOTAGE OF PROJECT AREA
 - NUMBER OF STORIES

REV.	DATE	BY:	SCALE: N.T.S.
1	01/2011	OC/BK	DATE: JULY 2009
			DRAWN BY: BYC
			REVIEWED BY: KI/LS/OC/BK/GA

City of Milpitas
 Building & Safety Department
STORAGE RACK ANCHORAGE
SAMPLE SITE PLAN

SHEET
1
 OF 3 SHEETS

NOTE:

1. INDICATE LAYOUT OF THE STORAGE RACKS ON THE FLOOR PLAN TO INDICATE THE LOCATIONS AND ARRANGEMENT OF RACKS.
2. INDICATE THE MAX. LOAD ON EACH SHELF AND ITS CONTENT. TOTAL WEIGHT SHALL NOT EXCEED 2000 LB.
3. INDICATE WIDTH, DEPTH, HEIGHT AND DISTANCE BETWEEN EACH LEVEL FOR EACH TYPE OF RACK.
4. SPECIAL INSPECTION IS REQUIRED FOR EPOXY OR EXPANSION ANCHORS.
5. INDICATE DETAILS OF THE (E) FLOOR PLAN TO SHOW ROOMS AND THEIR USE, ROOM DIMENSIONS, LOCATION OF DOORS IN ROOMS, CORRIDOR, EQUIPMENT, RESTROOM, EXIT DOORS, ETC.
6. INDICATE ILLUMINATED EXIT SIGNS, TACTILE EXIT SIGNS, COMMON PATH OF EGRESS TRAVEL, MAX. EXIT ACCESS TRAVEL DISTANCE.

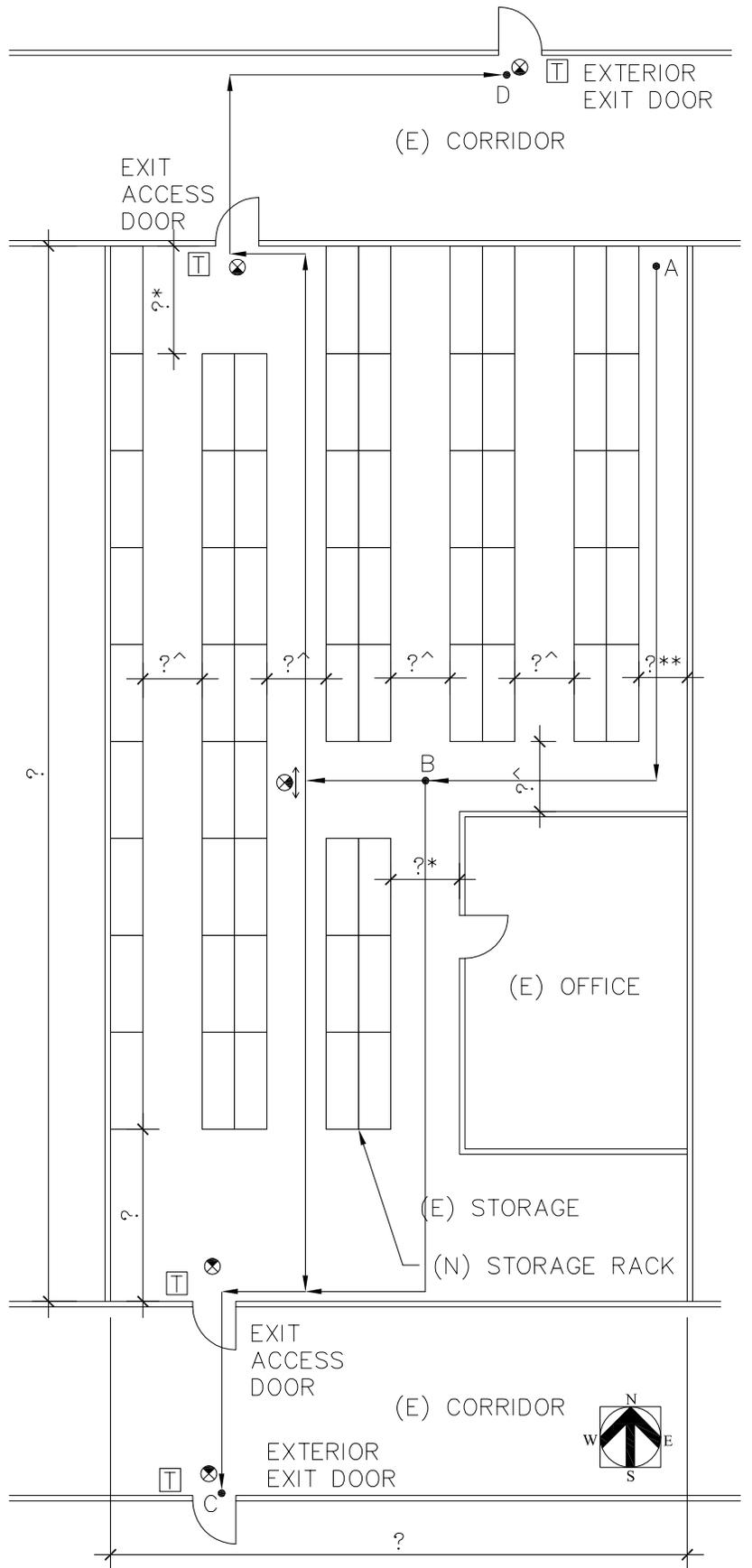
- * 44" MIN. ON PUSH SIDE
48" MIN. ON PUSH SIDE WITH 12" MIN. CLEARANCE AT THE LATCH SIDE OF DOOR WHEN THE DOOR HAS BOTH A CLOSER AND A LATCH
60" MIN. ON PULL SIDE
- ** 36" MIN. AISLE SERVING ONE SIDE
- ^ 44" MIN. AISLE SERVING BOTH SIDES

LEGEND

- T TACTILE EXIT SIGN:
"EXIT ROUTE" AT EXIT ACCESS DOOR
"EXIT" AT EXTERIOR EXIT DOOR
- ⊗ ILLUMINATED EXIT SIGN (WITH DIRECTIONAL ARROW AS REQ.)
- ➔ PATH OF TRAVEL

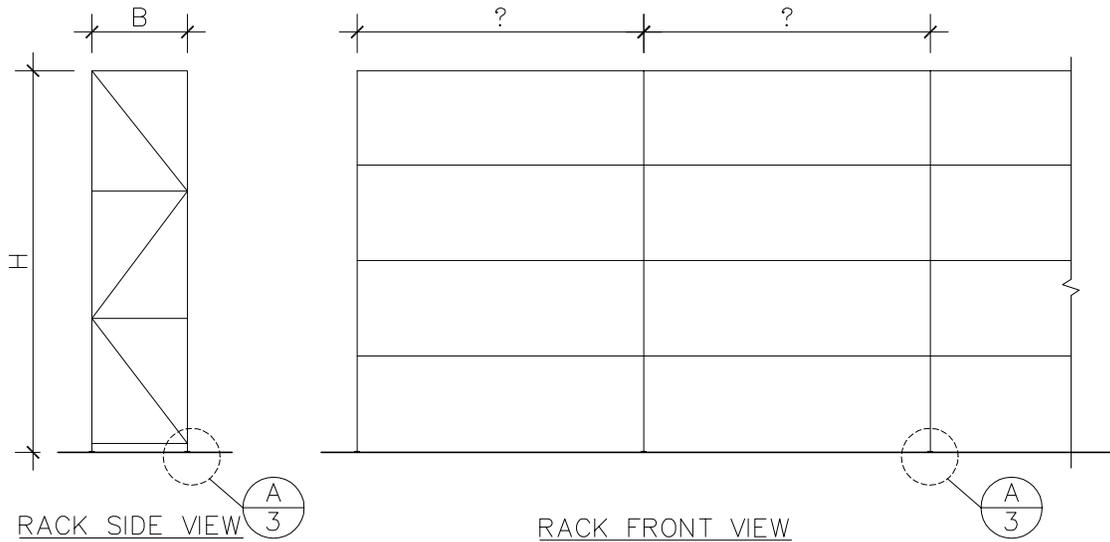
COMMON PATH OF EGRESS TRAVEL:
(POINT A TO B) = ?

MAX. EXIT ACCESS TRAVEL DISTANCE:
(POINT A TO C OR POINT A TO D) = ?



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STORAGE RACK ANCHORAGE
 SAMPLE FLOOR PLAN

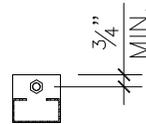


DISCLAIMER:

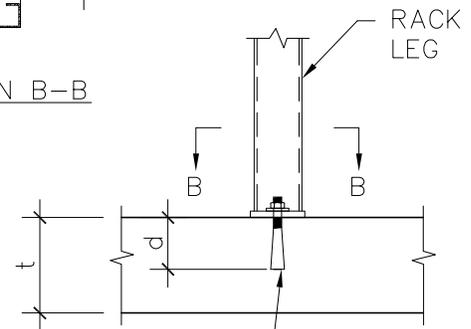
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MAX. HEIGHT (H)	MIN. DEPTH (B)	EXPANSION ANCHOR SIZE	EPOXY ANCHOR SIZE
8'	1'-6"	1/2"Ø	1/2"Ø
8'	2'-0"	3/8"Ø	1/2"Ø

ANCHOR TYPE	BOLT SIZE	MIN. EMBED. (d)	MIN. SLAB THK. (t)
X1, X2, X3, X4	1/2"Ø	2"	4"
	3/8"Ø	3 1/4"	6"
P1, P3	1/2"Ø*	2 3/4"	4"
P2	1/2"Ø*	4"	6 1/2"



SECTION B-B



ANCHOR (SEE TABLE C)

NOTE: SEE TABLE D FOR "d" AND "t"

A ANCHORAGE DETAIL

SCALE: 1"=1'-0"

EXPANSION ANCHORS:

- X1 = HILTI KB-TZ (1CC-ESR#1917)
- X2 = SIMP. STRONG-BOLT (1CC-ESR#1771)
- X3 = POWER-STUD+ SD1 (1CC-ESR#2818)
- X4 = ITW REDHEAD TRUBOLT+ (1CC-ESR#2427)

EPOXY ANCHORS:

- P1 = HILTI HIT RE500-SD (1CC-ESR#2322)
- P2 = SIMP. SET-XP (1CC-ESR#2508)
- P3 = POWERS PE1000+ (1CC-ESR#2583)

* ANCHOR ROD SHALL BE ASTM A307 GR. A OR F1554 GR. 36

NOTE:

OTHER ALTERNATIVE CURRENT ICC APPROVED EXPANSION ANCHORS OR EPOXY OF EQUIVALENT FUNCTION AND CAPACITY MAY BE USED IN LIEU OF THOSE SPECIFIED IN THE TABLES ABOVE.

REV.	DATE	BY:	SCALE: AS NOTED
1	2/25/10	BYC	DATE: JULY 2009
2	01/2011	OC/BK	DRAWN BY: BYC
			REVIEWED BY: K/LS/OC/BK/GA

City of Milpitas
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STORAGE RACK ANCHORAGE
 SAMPLE DETAILS



CITY OF MILPITAS

BUILDING AND SAFETY DEPARTMENT

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Print Name

Company

Signature

Plan Check No.

Date