CITY OF PORTLAND, OREGON - BUREAU OF DEVELOPMENT SERVICES

1900 SW Fourth Avenue, Suite 5000 • Portland, Oregon 97201 • www.portlandonline.com/bds • Fax 503-823-7425

Facility Permit Plan Intake Form

FOR INTAKE, STAFF USE ONLY

Date Received _____

Building Registration # 10-120367-FL

Fixed Bid _____

Bin # F13

Building Permit # 10-149721-FA

Mechanical # _____

Plumbing Permit # _____

Electrical Permit # _____

Building/Mechanical Dave W #13

Electrical Lee

Plumbing _____

Fire Dave F #4

Planning Lin #2

BES _____

PDOT _____

Structural Eric

Other Source/Sabrina

15

APPLICANT: Complete all sections below that apply to the project. Please print legibly.

Print Name ACCESS INFO MANAGEMENT Sign Name BECKY GRIFFITH

Street Address 7507 N. LEADBETTER RD.

City PORTLAND State OR. Zip Code 97203

Day Phone (503) 347-9074 FAX _____ email BGRIFFITH@ACCESSCORP.COM

Plans / permits available for pick up at 1900 SW 4th Avenue, 2nd floor between 8:00 am to 5:00 pm

Contact Name for plan/permit pick up STUART BAILEY

Day Phone (503) 780-2981 email BBINSTALSTUART@QWEST OFFICE.NET

Project Building Name / # ACCESS INFORMATION MANAGEMENT

Project Address or Location 7507 N. LEADBETTER RD PORTLAND OR 97203

Project Name and Description INSTALLATION OF 2 CATWALK LEVEL RACK STORAGE SYSTEM

Total Project Value 220,000 Project Reference #/Billing ID # 110038

RACK Building Contractor B & B INSTALLATIONS INC. CCB # OR-067419

MechanicalContractor _____ CCB # _____

Electrical Contractor _____ CCB# _____ License # _____

Plumbing Contractor _____ CCB# _____ License # _____

☒ **Building Permit**

No. of Stories _____

Const. Type RACKING

[Y] [N] Alarms Required

[Y] [N] Smoke Det. Req'd

[Y] [N] Sprinklers Req'd

[Y] [N] Struct. Eng / Calcs Submitted

☐ **Electrical Permit**

Please provide a completed standard electrical permit application form. You may mail or deliver it to 1900 SW 4th Avenue, Portland, Oregon 97201 or FAX to 503-823-7425.

☐ **Mechanical Permit**

Mechanical Valuation _____

Description _____

☐ **Plumbing Permit**

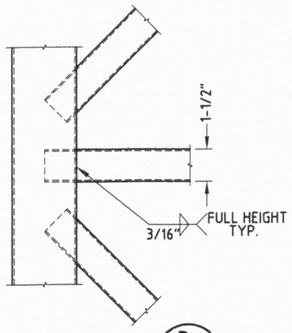
Number of Fixtures _____

Back Flow Devices _____

Water Service (# of Feet) _____

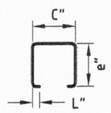
Medical Gas _____

Other _____



CONN. DETAIL (3a / --)

	Post Type	C	e	L
*	ALL	1.50	1.50	0.25



BRACE DETAIL (3 / --)

t=16 GA. (TYP.)

	Type	D	B	d	t	Sx	Ix
	24160	2.50	2.75	1.63	0.056	0.34	0.48
	24140	2.50	2.75	1.63	0.071	0.42	0.59
	30160	3.00	2.75	1.63	0.056	0.44	0.73
*	30140	3.00	2.75	1.63	0.071	0.55	0.90
	33160	3.38	2.75	1.63	0.056	0.53	0.97
*	33140	3.38	2.75	1.63	0.071	0.66	1.20
*	36160	3.75	2.75	1.63	0.056	0.63	1.26
*	36140	3.75	2.75	1.63	0.071	0.77	1.56
	41160	4.13	2.75	1.63	0.056	0.73	1.59
*	41140	4.13	2.75	1.63	0.071	0.90	1.97
	44160	4.50	2.75	1.63	0.056	0.83	1.98
*	44140	4.50	2.75	1.63	0.071	1.03	2.45
	47140	4.88	2.75	1.63	0.071	1.18	3.00
	50160	5.00	2.75	1.63	0.056	0.99	2.58
*	50140	5.00	2.75	1.63	0.071	1.22	3.20
*	55140	5.63	2.75	1.63	0.071	1.48	4.33
	60140	6.00	2.75	1.63	0.071	1.64	5.11
	60130	6.00	2.75	1.63	0.083	1.89	5.88
	63130	6.38	2.75	1.63	0.083	2.09	6.88
	63140/1514					2.71	12.13
	63140/3014					3.43	17.24

BEAM SUMMARY:
"CARTON" MEDIA STORAGE
Boxes Only:
Stacked ≤ 3 Deep ≤ 3 High
30140 ≤ 72" Spans
33140 ≤ 85" Spans
36160 ≤ 120" Spans
36140 ≤ 133" Spans

Stacked ≤ 4 Deep ≤ 3 High
30140 ≤ 68" Spans
36140 ≤ 120" Spans
41140 ≤ 133" Spans

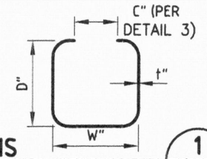
Boxes & Catwalk:
Stacked ≤ 3 Deep ≤ 3 High
30140 ≤ 72" Spans ≤ 44" Aisles
33140 ≤ 85" Spans ≤ 30" Aisles
36140 ≤ 102" Spans ≤ 30" Aisles
44140 ≤ 120" Spans ≤ 30" Aisles
50140 ≤ 120" Spans ≤ 44" Aisles
55140 ≤ 133" Spans ≤ 44" Aisles

Stacked ≤ 4 Deep ≤ 3 High
30140 ≤ 68" Spans ≤ 44" Aisles
50140 ≤ 120" Spans ≤ 44" Aisles
55140 ≤ 133" Spans ≤ 44" Aisles

UPRIGHT SUMMARY:
"CARTON" MEDIA STORAGE:
Boxes Stacked ≤ 3 Deep ≤ 27 High (24 High On Fixtures) w/≤ 44" Aisles: **IF-3013** (3x3x 13 Ga.)

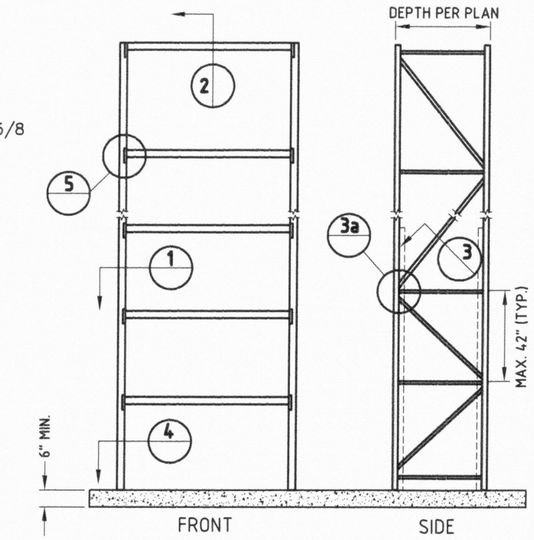
Boxes Stacked ≤ 4 Deep ≤ 27 High (24 High On Fixtures) w/≤ 44" Aisles: **IF-3014** (3x3x 14 Ga.) w/ **IF-1514** (3x1-5/8 x 14 Ga.) Front & Rear Post Backers Up To 114"

	TYPE	W	D	t	As	Sx	rx	ry
*	IF-1514	3.00	1.63	14 Ga.	0.37	0.36	1.18	0.69
	IF-1513	3.00	1.63	13 Ga.	0.46	0.44	1.17	0.68
	IF-1512	3.00	1.63	12 Ga.	0.50	0.48	1.16	0.68
*	IF-3014	3.00	3.00	14 Ga.	0.57	0.64	1.29	1.15
*	IF-3013	3.00	3.00	13 Ga.	0.71	0.79	1.28	1.14
	IF-3012	3.00	3.00	12 Ga.	0.78	0.86	1.27	1.13
	IF-3011	3.00	3.00	11 Ga.	0.92	1.00	1.26	1.12



COLUMNS (1 / --)

PROPERTIES:- NET SECTION - UNITS: INCHES UNO

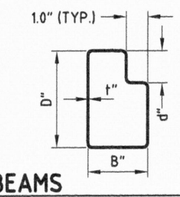


TYPICAL ELEVATIONS (-- / --)

SEE INSTALLATION DRAWINGS FOR SITE SPECIFIC INFORMATION

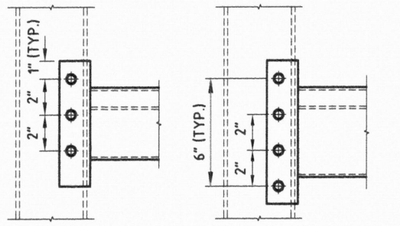
NOMENCLATURE:
UPRIGHTS IF-XXXX-YY-ZZZ (OPTIONS)
IF-XXXX=POST MODEL NUMBER
YY=UPRIGHT DEPTH (INCHES)
ZZZ=UPRIGHT HEIGHT (INCHES)
OPTIONS=SPECIAL FOOTPLATES, ETC.

BEAMS XXXXX-WWW (OPTIONS)
XXXXX=BEAM MODEL NUMBER
WWW=BEAM LENGTH (INCHES)
OPTIONS=SPECIAL END CONNECTORS, WELDS, ETC.



BEAMS (2 / --)

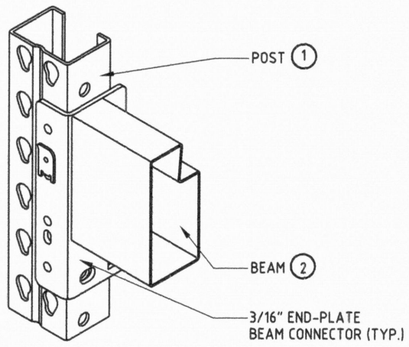
PROPERTIES:- UNITS: INCHES UNO



64" DEEP UPRIGHTS: MIN. BTM. (3) BEAM LEVELS ON ALL BAYS GREATER THAN 123" WIDE

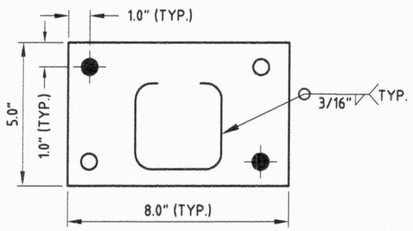
RIVET PATTERN (5b / --)

* 3 RIVET CONNECTION TYP. UNO
* 4 RIVET CONNECTION (AS SPECIFIED ABOVE)



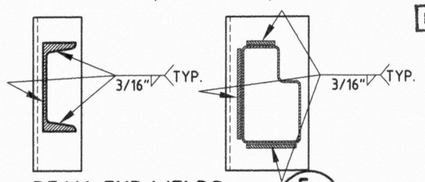
BEAM-COLUMN CONN. (5 / --)

7/16" (NOM.) ASTM A502-3 RIVETS



*SEISMIC
[MIN. (2) No. 1/2" ANCHORS/POST w/MIN. 3-1/2" NET EMBEDMENT; t=3/8"]

BASE PLATES/SPLICES (4 / --)



BEAM-END WELDS (5a / --)

NOTE: ALL WELDS 3/16" UNO

REGISTERED PROFESSIONAL ENGINEER 73369PE OREGON JULY 15, 2003 ANDREW KIRBY
EXPIRES: 6-30-11

*INDICATES COMPONENTS USED ON THIS PROJECT

REV. 1, ISSUE DATE: JULY 9, 2010

GENERAL NOTES

1. This drawing shows standard details of the rack product line only. See engineer approved installation drawings (same Job number) for components used, special details, arrangement, and site specific information.

   Fabrication by Hannibal Racks, Inc. (a City of Los Angeles Certified Fabricator)

2. The installation drawings govern over this drawing.

3. MATERIAL
   Steel - ASTM A570 Grade 55 (60 for Beams)
   All Plate Sections: ASTM A36

   Welding Electrodes - AWS E70-XX (all welds single pass fillet welds designed at 50% stress levels)

4. Expansion Anchors shall be ICC approved types. e.g.
   Hilti Kwik Bolt TZ Fasteners (ESR-1917)
   Simpson Strong Bolt Wedge Anchors (ESR-1771)
   ITW/Red Head Trubolt + Wedge Anchor (ESR-2427)

   * Powers Power-Stud+ Expansion Anchors (ESR-2818)

   Embedment shall be minimum 7x Bolt Diameter. Other similar anchors may be used if ICC approved.

   The anchor types, sizes, and embedments shown on the installation drawing govern over the sizes shown on this drawing.

   Periodic anchor bolt special inspections will be provided as dictated by the City of Portland, OR Bureau of Development Services (1)

   For extreme environments, all concrete fasteners are required to be either Hot Dip Galvanized or of Stainless Steel construction.

5. Unless noted otherwise on the installation drawings, the allowable soil bearing value is 0.50 KSF.

ANDREW L. KIRBY, PE
CONSULTING ENGINEER
29523 RIDGEWAY DR.
AGOURA HILLS, CA
PH. 818-735-0719
FAX 818-735-0355

DRAWING AND DESIGN ARE COPYRIGHT. COPYING BY WRITTEN PERMISSION ONLY. WET SIGNED COPIES ONLY ARE VALID FOR BUILDING PERMIT APPLICATION. DRAWING MUST BE SIGNED ACROSS THIS BLOCK.

DATE	05-18-10
DRAWN	
CHECKED	
APPROVED	ALK

ACCESS INFORMATION MANAGEMENT, PHASE 1
7507 NE LEADBETTER ROAD
PORTLAND, OR 97203
HANNIBAL MATERIAL HANDLING
PALLET RACK, STANDARD DETAILS

JOB # 1572

DRAWING # HMH-01

RECEIVED
JUL 0 6 2010
Andrew L. Kirby, PE

Access Information Management

7507 NE Leadbetter Road, Portland, OR 97203

SAFETY & HEALTH REQUIREMENTS FOR STORAGE SYSTEM INSTALLERS

Boston Rack sub-contrctors are required to provide safe and healthful working conditions for their employees, and any oyher persoannel who enter the construction/maintenance job site.

Nothing herein shall be construed to relieve the sub-contractor of its responsibility to comply with federal, stete and local enrironmental, health and safety laws, regulations and requirements. Such responsibility rests soley upon the sub-contractor.

The sub-contractor shall promptly discharge from this work any person who violates secutity precautions, disregards hazard signs, refuses to obey orders the Boston Rack Project Manager or his/her designated representative, or is considered incompetent, or disorderly by Boston Rack.

THE sub-contractor SHALL REVIEW THIS DOCUMENT WITH ALL OF ITS EMPLOYEES **PRIOR** TO WORK PERFORMED AT BOSTON RACK.

1. **Conduct**
   Horseplay, fighting, gambling. drinking alcoholic beverages, using unauthorized drugs or failure to follow Boston Rack Safety Regulations may result in barring those involved from Boston Rack project. Smoking is not allows in any Customer facility.
2. **Equipment**
   Sub-contractor shall provide the equipment necesary for the safe performance of his work. The sub-contractor is responsible for the appropriateness, quality and/or dafe use of the tools and equipment.
3. **Communication**
   All interactions between the sub-contractor and Boston Rack must be coordinated throught Boston Rack Manager. The Project Manager shall serve as the focal point for all such interfaces and informating sharing.
4. **Safety Instructions**
   Before assigning a task to an employee, the employee, the sub-contractor must show and explain to his employees the safety precautions and actions which must br taken while performing the task.
5. **Housekeeping**
   Work areas must be cleaned up continually as the job progresss, with cords and hoses routed across walkways in a manner that will avoid creating tripping hazards. All materials, tools and equipment must be stored in stable positions (tied, stacked or chocked) to prevent rolling or falling. A sefety accessway to all work areas must be maintained. All trash and debris must be removed from the construction work area by the sub-contrctor at least daily. Scap trash and other wastes should be removed by Customer contracted disposal company (coodinate with the Project Manger).
6. **Material Handling**
   The weights to be handled must be knon before preceding. Mechanical handling equpment must be inspected by a qualified person before using. material handles shall never raise oe swing a load over people.
7. **Stability Control**
   The weights to be handled must be knon before preceding. Mechanical handling equpment must be inspected by a qualified person before using. material handles shall never raise or swing a load over people.
8. **Access**
   Access routes to and work locations must be maintained free and clear of obstruction and must be adequatelt lighted. Emergency equipment ir electric disconnect swithches must not be blocked; nor may temporary construction cables. hose or leads be attached to such equipment. Material must be stacked, stored or spotted so it can be reached readily by personnel and by mwterial handling equipment.
9. **Personal Protection**
   All required personnel protective equipment shall be provided by the sub-contractor, when necessary. When mandatory, enforcement ib the responsibility of the outside sub-contractor.
10. **Power Tools**
    Power Tools shall not be operated without first receiving instructions from the sub-contractor's supervisor instruction. Proper guards of shields must be installed on all power tools. Tools must be inspected daily before staring up. Interlocking devices must be in working order and never bypassed.
11. **Barricades**
    Barricades are required around excavations, holes or openings in floors or roofs, elevated paltforms, around certain types of overhead work, and whenever necessary to warn people against falling. Barricades must be at least 42 inches high, square and level. Barricades must be kept four feet back from the edge of excavation, holes, platforms and roofs, unless a protective barricade is used. Four-inch high (minimum) toeboards are required on protective barricades arond the floor openings. Barricades must be removed when no longer required.
12. **Signs**
    Legible warning signs should be placed on barricade stands, and be removed promptly upon completion. Tape with pre-printed warning signs (e.g., "banner-guard type") may be used.
13. **Material Hoists (Lift)**
    Material hoists are to be operated only by an "authorized" operator. Material hoists are not to be used for lifting personnel. The weight of material and capacity of elevator or hoist must be known before using. Material must be positioned so it cannot shift or exted beyond cage limits.
14. **Welding and Burning**
    Depending on the operation and area, a person amy be required to serve specifically as "fire watch" without any other dutires. In all cutting or welding operations, at least one person shall stay in the area for at least one hour after completion of the operation to direct and extinguish possible smoldering fires.
    All exposed combustible materials below welding and burning area must be removed to a safe location.In addition, an approved spark catcher shall be used for overhead welding. A charged fire extinguisher must be within 30 feet of any welding, burning on open-flame working area. (Be sure that all personnel know how to operate the fire extinguisher.)
15. **Motor Vehicles and Power Equipment**
    The driver is responsible for the safety of all passenger and the stability of materials being hauled or handled by his equipment. All speed limit and other regulatoty signs must be obeyed, and pedestrians given the right-of-way. The operator must look to the rear and sound hi horn three times brfore backing. The operator must shut off the motor before defueling. The operator must shut off the motor and set the brakes before leaving the operator's cab. All construction vehicles, including forklifts, must be equipped with backup alarms. Forrklifts must be in good working order and equipped with overhead guards.
16. **Emergency - Fire and Medical**
    The emergency telephone number (911) must be call immediately in case of fire or medical incident.
    All instillaers must know how to report an emergency. They must be made aware of evacuation instructions and evacuation signs designating the escape route for each work area.
    Customer personnel have First Aid Kits available to sub-contractors for first aid care. Any follow-up treatment of hosipital services beyond frist aid care must be coordinated by the sub-contractor with an outside health care agency.
17. **Restrooms**
    All installers using Customer restroom facilities must leave them as clean as when entered. If necessary, an outside cleaning agency must be hired to clean the restrooms at the expense of the installers of it is determined they have dirtied the restroom.
18. **Uniforms**
    It is necessary that all installer wear company T-shirts for easy identification. A shirt, shoes and long pants must be worn at all times.
19. **Hours**
    All work is to be performed between 8:00 am and 5:00 pm. Any change in work times must be cleared in advance with Customer personnel and the Project Manager (including night time and/or weekend labor).
20. **Change Orders**
    All lobor work out of the scope of the original contract must be estimated (by total hours) and written on the propper schange order form, and faxed to Boston Rack. Pricing for lobor, materials and freight will then be estimated and faxed it to Boston Rack for approval BEFORE work is to be done. Boston Rack will notify the installer of approval and schedule arrival of any new materilas.

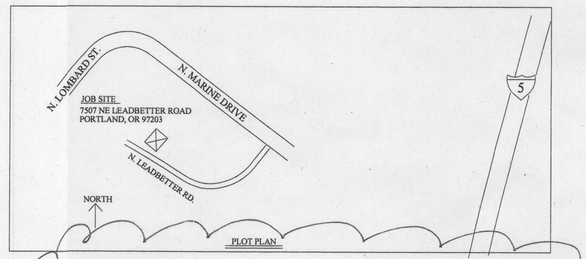
Earthquake Design Data

a) Occupancy Category=II & Seismic importance factor, "I"=1.0
b) Mapped spectral response accelerations, SS & S1 ≤1.00 & 0.40 respectively
c) Site Class= "D"
d) Spectral response coefficients SDS & SD1 =0.73 & 0.43 respectively
e) Seismic Design Category= "D"
f) Basic seismic-force-resisting systems: Longitudinal (Down Aisle) Direction: Ordinary moment frames of steel, Transverse (Cross Aisle) Direction: Concentric Braced Frame
g) ASD Design base shear: Longitudinal Direction, V≤ 0.087W; Transverse Direction, V≤0.131W
h) ASD Seismic response coefficient(s): Longitudinal Direction, Cs=0.060W; Transverse Direction, Cs=0.131W
i) Response modification factor(s): RLong=6.0 & RTrans=4.0
j) Analysis procedure: Equivalent Lateral Force Method

STORAGE RACK INSTALLATION ONLY. NO WORK ON BUILDING OR STRUCTURE. NO MECHANICAL WORK.

SHEET INDEX

10025-0 - COVER SHEET
-1 - FLOOR PLAN
-2 - FRAMING/DECKING/ELEVATIONS
-3 - CD- COMPONENT DETAILS
-4 - SD-STAIR DETAILS



NOTE: EGRESS LIGHTING WILL BE SUBJECT TO AN EMERGENCY POWER TEST. LIGHT LEVEL MINIMUM AVG 1 FOOT CANDLE AT WALKING SURFACE FOR 90 MIN. (NOT LESS THAN .1 FOOT CANDLE AT ANY POINT)

DESCRIPTION	MAXIMUM PERMISSIBLE LOADS	
	Max. Load/Box (LBS)	Max. Load/Bay (LBS)
Catwalk System:		
≤ 48" DEEP UPRIGHTS	MAX. 30 #/BOX	19,440
≤ 64" DEEP UPRIGHTS	MAX. 30 #/BOX	25,920
The capacities shown above are based upon undamaged components. Damage reduces rack capacity. Repair or replace damaged components.		

AS REQUIRED PER CODE, A PERMANENT PLAQUE EACH NOT LESS THAN 50 SQUARE INCHES IN AREA AND SHOWING THE MAXIMUM PERMISSIBLE UNIT LOAD IN CLEAR AND LEGIBLE PRINT WILL BE DISPLAYED IN ONE OR MORE CONSPICUOUS LOCATIONS AT THE DISCRETION OF THE CITIES INSPECTOR (SEE DETAILED LOAD TABLE ABOVE)

1

REGISTERED PROFESSIONAL ENGINEER 73369PE OREGON JULY 15, 2008 ANDREW KIRBY
EXPIRES: 6-30-11
Job # 1672

City of Portland REVIEWED FOR CODE COMPLIANCE JUL 14 2010 10-149721-FA Permit Number

REVIEWED AND APPROVED
JUL 09 2010
Andrew L. Kirby, PE
Ph. 818-735-0719

PHASE 1

AGREED:
CUSTOMER APPROVAL:
BY: _____
ACCEPTED THIS___DAY OF____
COMMENT: _____
UPON SIGNING THIS DRAWING ALL OF MY REQUIREMENTS HAVE BEEN ADDRESSED AND I HAVE FULL AUTHORITY TO BIND MY ORGANIZATION TO THIS PLAN. ANY CHANGES TO THIS PLAN AFTER THIS DATE WILL BE ADDITIONAL DESIGN/CONSTRUCTION COST TO THE CUSTOMER.

THESE DRAWINGS AND/OR THE ACCOMPANING SPECIFICATIONS AS INSTRUMENTS SPECIFICATIONS OF SERVICE, ARE THE EXCLUSIVE PROPERTY OF ELITE STORAGE SOLUTIONS, INC. AND THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SPACE FOR WHICH THEY WERE PREPARED. RE-USE, REPRODUCTION, OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART IS PROHIBITES EXCEPT BY WRITTEN PERMISSION FROM ELITE STORAGE SOLUTIONS, INC. TITLE TO THESE PLANS AND/OR SPECIFICATIONS SHALL REMAIN ELITE STORAGE SOLUTIONS, INC. WITHOUT PREJUDICE, AND VISUAL CONTACT WITH THEM SHALL CONSTITUTE PRIMA FACIA EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

REV	DATE	DESCRIPTION

REVISIONS

ELITE STORAGE SOLUTIONS INC.
www.elitestoragesolutions.com
MANUFACTURING PLANT: 1118 W. Spring St. Monroe, GA. 30655 TEL: (770) 207-0002 FAX: (770) 207-0107
EASTERN: 115 MAIN ST. SUITE 20, N. EASTON MA. 02356 TEL: (508) 230-5755 FAX: (508) 230-5758
WESTERN: 14808 ARMSTRONG AVE. SUITE 200, IRVINE, CA 92705 TEL: (949) 757-1377 FAX: (949) 757-1477
SOUTHERN: 1001 MACY DRIVE, ROSWELL, GA 30076 TEL: (770) 642-9130 FAX: (770) 642-8173
PENNSYLVANIA: 2 SOUTH MAIN ST. SUITE 400, PITTSTON, PA 18640 TEL: (570) 655-4280 FAX: (570) 655-8347

DRAWN: RT
PROJECT MANAGER: RT
SALE:
JOB NUMBER:
DATE: 3-30-10
SCALE: NONE

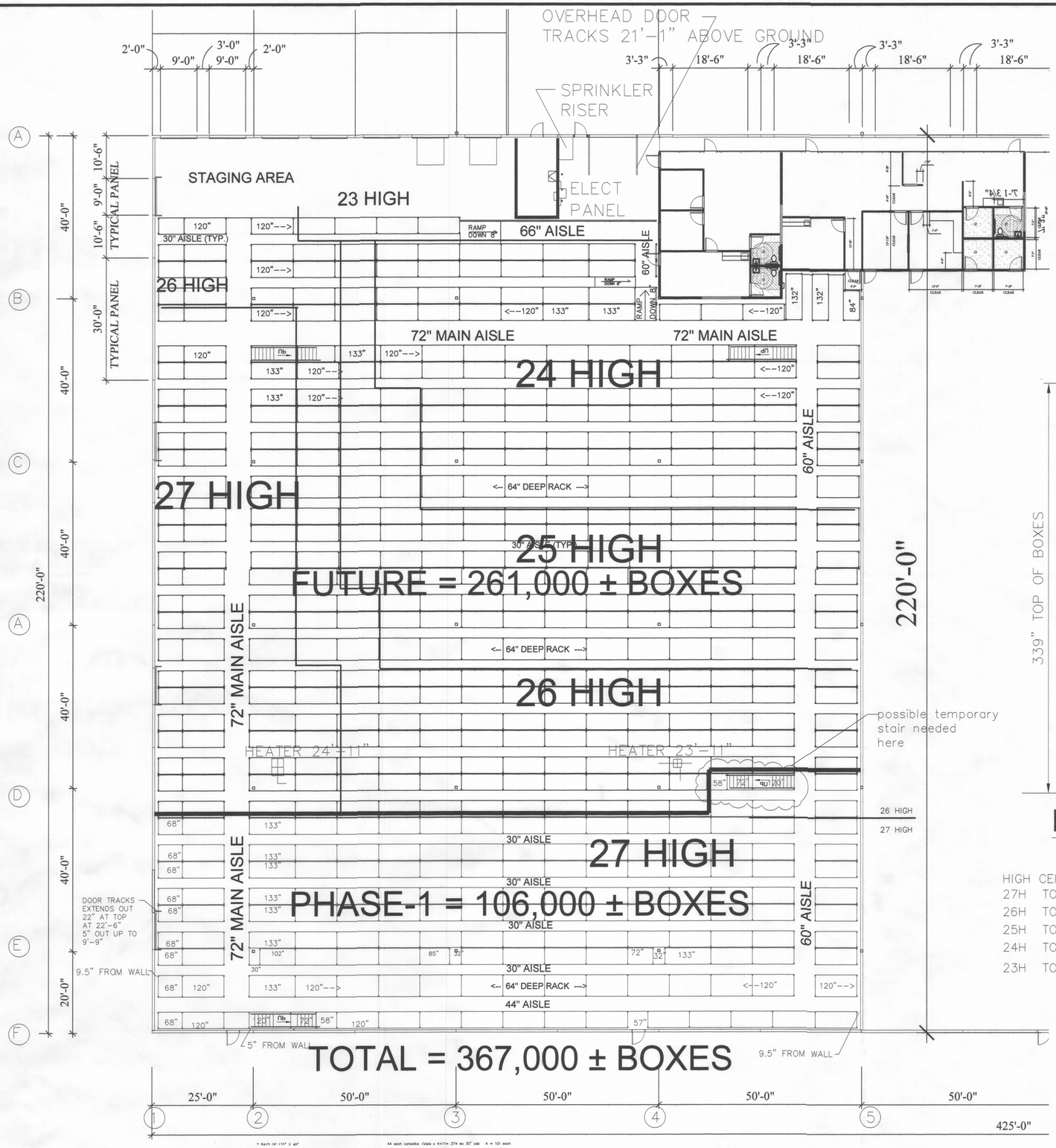
PROJECT LOCATION:
ACCESS INFORMATION MANAGEMENT
7507 NE LEADBETTER RD.
PORTLAND, OR 97203

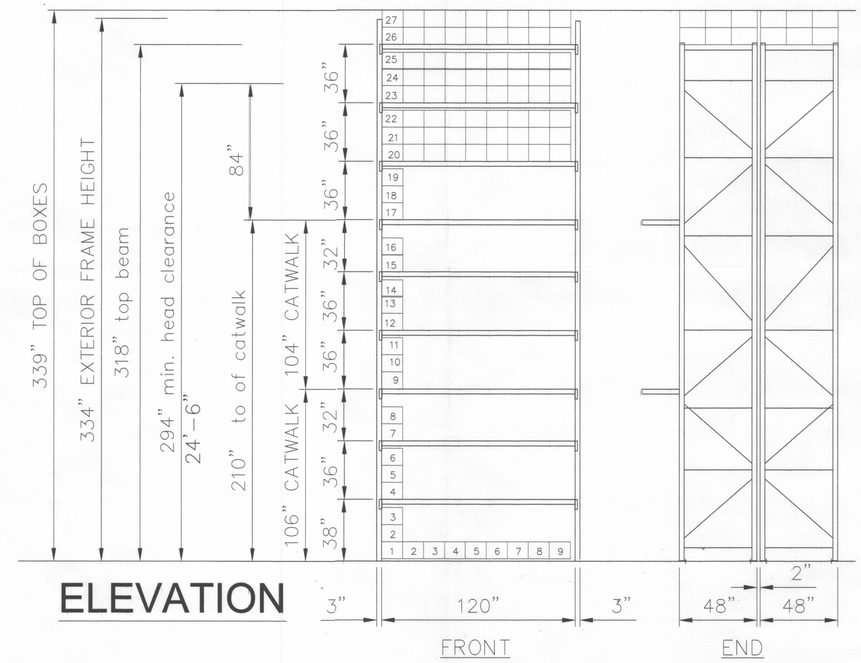
SHEET TITLE:
Cover Sheet

DRAWING NUMBER:
10025-0

SHEET: 0 OF 4

10-149721-FA





ELEVATION

HIGH CEILING POINT IS 32'-1 AT BACK OF BUILING

27H TOP BOX 339"+18+9"=366"= 30'-6" APPROX. CEILING HEIGHT NEEDED
26H TOP BOX 329"+18+9"=356"= 29'-8" APPROX. CEILING HEIGHT NEEDED
25H TOP BOX 319"+18+9"=356"= 28'-10" APPROX. CEILING HEIGHT NEEDED
24H TOP BOX 303"+18+9"=330"= 27'-6" APPROX. CEILING HEIGHT NEEDED
23H TOP BOX 293"+18+9"=320"= 26'-8" APPROX. CEILING HEIGHT NEEDED

REGISTERED PROFESSIONAL ENGINEER 73368PE OREGON JULY 15, 2009 ANDREW KIRBY
EXPIRES: 6-30-11
JOB # 1572
REVIEWED AND APPROVED
JUL 09 2010
Andrew L. Kirby, PE
Ph. 818-735-0719

RECEIVED
JUL 0 6 2010
Andrew L. Kirby, PE

AGREED:
CUSTOMER APPROVAL:
BY: _____
ACCEPTED THIS___DAY OF____
COMMENT: _____

UPON SIGNING THIS DRAWING ALL OF MY REQUIREMENTS HAVE BEEN ADDRESSED AND I HAVE FULL AUTHORITY TO BIND MY ORGANIZATION TO THIS PLAN. ANY CHANGES TO THIS PLAN AFTER THIS DATE WILL BE ADDITIONAL DESIGN/CONSTRUCTION COST TO THE CUSTOMER.

THESE DRAWINGS AND/OR THE ACCOMPANING SPECIFICATIONS AS INSTRUMENTS SPECIFICATIONS OF SERVICE, ARE THE EXCLUSIVE PROPERTY OF ELITE STORAGE SOLUTIONS, INC. AND THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SPACE FOR WHICH THEY WERE PREPARED. RE-USE, REPRODUCTION, OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART IS PROHIBITES EXCEPT BY WRITTEN PERMISSION FROM ELITE STORAGE SOLUTIONS, INC. TITLE TO THESE PLANS AND/OR SPECIFICATIONS SHALL REMAIN ELITE STORAGE SOLUTIONS, INC. WITHOUT PREJUDICE, AND VISUAL CONTACT WITH THEM SHALL CONSTITUTE PRIMA FACIA EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

REV	DATE	DESCRIPTION
A	5/4/10	REV DWG PER SITE VISIT

REVISIONS

STORAGE SOLUTIONS INC.
www.elitestoragesolutions.com

MANUFACTURING PLANT:
1118 W. Spring St. Monroe, GA. 30655
TEL: (770) 207-0002 FAX: (770) 207-0101

EASTERN:
115 MAIN ST. SUITE 20, N. EASTON MA. 02356
TEL: (508) 230-5755 FAX: (508) 230-5758

WESTERN:
16808 ARMSTRONG AVE. SUITE 200, IRVINE, CA. 92606
TEL: (949) 757-1377 FAX: (949) 757-1477

SOUTHERN:
1001 MACY DRIVE, ROSWELL, GA. 30076
TEL: (770) 642-9130 FAX: (770) 642-9131

PENNSYLVANIA:
2 SOUTH MAIN ST. SUITE 400, PITTSTON, PA 18640
TEL: (570) 655-4260 FAX: (570) 655-8347

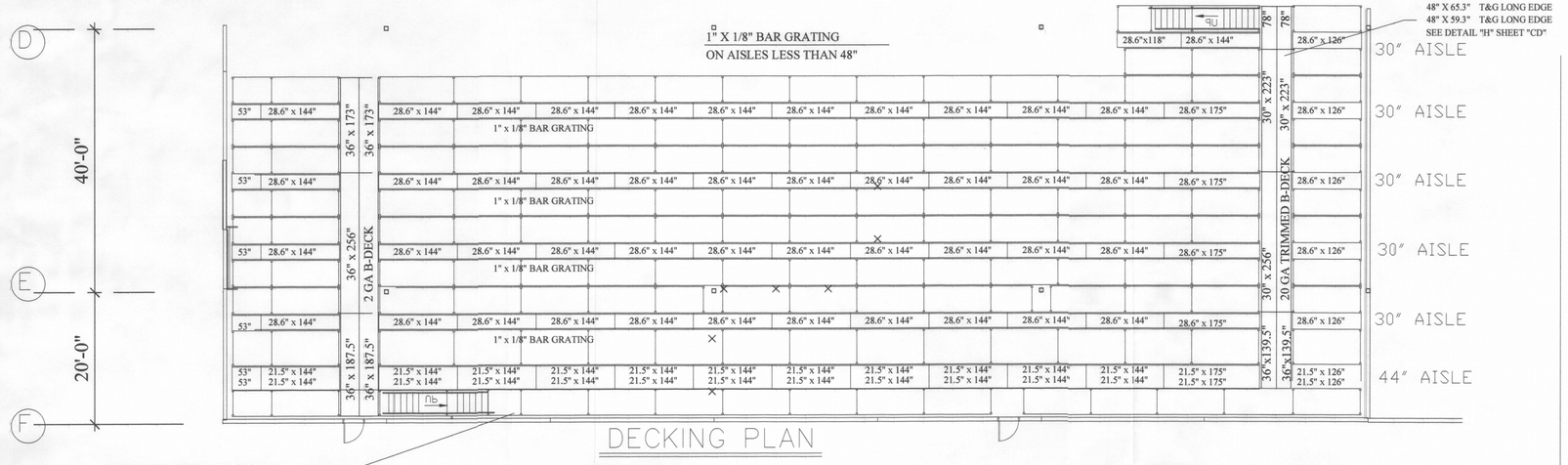
DRAWN: THUY GERLITS
PROJECT MANAGER:
SALE: TIM RYAN
JOB NUMBER:
DATE: 04/19/2010
SCALE: AS NOTED

PROJECT LOCATION:
ACCESS INFORMATION MANAGEMENT
7507 NE LEADBETTER ROAD
PORTLAND, OR 97203

SHEET TITLE:
PLAN and ELEVATION PHASE-1

DRAWING NUMBER:
10025-1

SHEET: 1 OF 4



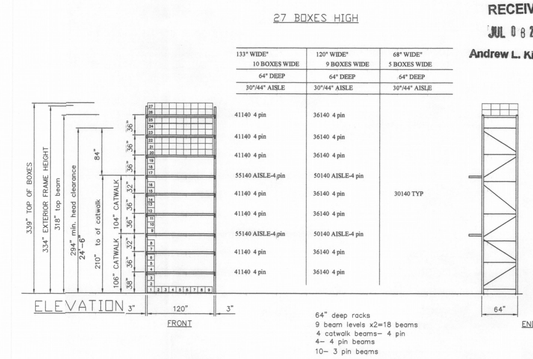
DECKING PLAN

FRAME LEGEND
A = 318" x 48" (3"x3"x13 GA.) UPRIGHT FRAME W/ 5"x8" SEIMICS FT.
B = 334" x 48" (3"x3"x13 GA.) UPRIGHT FRAME W/ 5"x8" SEIMICS FT.
E = 318" x 6" (3"x3"x14 GA.) UPRIGHT FRAME W/ 5"x8" SEIMICS FT. W/3" X 1-5/8" 114 INCH BACKER 14 GA BOTH LEGS
D = 334" x 64" (3"x3"x14 GA.) UPRIGHT FRAME W/ 5"x8" SEIMICS FT. W/3" X 1-5/8" 114 INCH BACKER 14 GA BOTH LEGS
S = 318" x 48" (3"x3"x14 GA.) STAIR FRAME W/ 5"x8" SEIMICS FT.
C = 390" x 00" (3"x3"x14 GA.) POST W/ SEIMIC FT.
TB = TOEBOARD
CTB = CHANNEL TOEBOARD

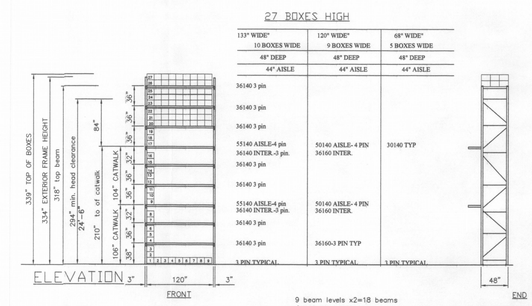
A = 101 each
B = 60 each
E = 13 each
D = 6 each
C = 4 each
S = 4 each

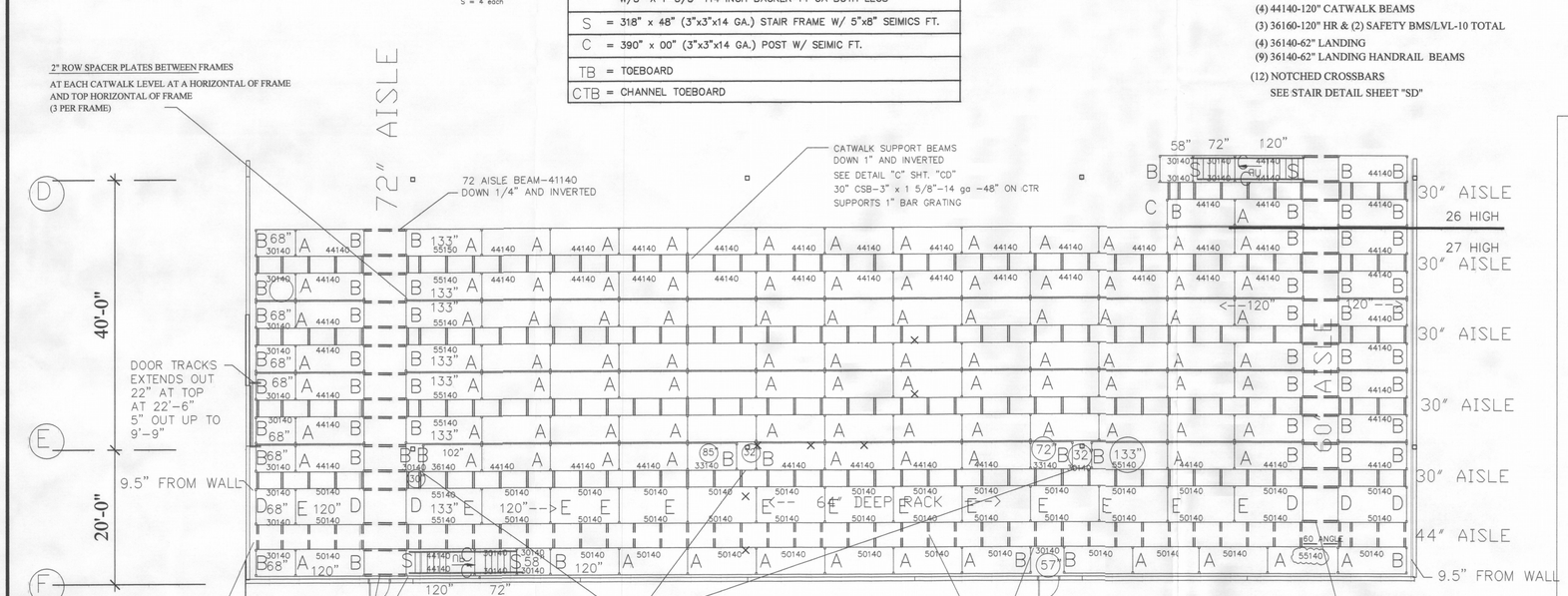
STAIR BEAMS AND HANDRAIL-2 CATWALK SYSTEM

(4) 30140-58" LANDING
(9) 30140-58" LANDING HANDRAIL BEAMS
(4) 30140-72" CATWALK BEAMS
(3) 30140-72" HR & (2) SAFETY BMS/LVL-10 TOTAL
(4) 44140-120" CATWALK BEAMS
(3) 36160-120" HR & (2) SAFETY BMS/LVL-10 TOTAL
(4) 36140-62" LANDING
(9) 36140-62" LANDING HANDRAIL BEAMS
(12) NOTCHED CROSSBARS
SEE STAIR DETAIL SHEET "SD"



RECEIVED
JUL 0 8 2010
Andrew L. Kirby, PE

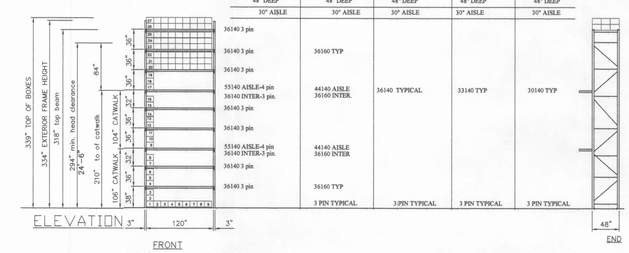




FRAMING PLAN

STAIR BEAMS AND HANDRAIL-2 CATWALK SYSTEM

(4) 30140-58" LANDING
(9) 30140-58" LANDING HANDRAIL BEAMS
(4) 30140-72" CATWALK BEAMS
(3) 30140-72" HR & (2) SAFETY BMS/LVL-10 TOTAL
(4) 44140-120" CATWALK BEAMS
(3) 36160-120" HR & (2) SAFETY BMS/LVL-10 TOTAL
(12) NOTCHED CROSSBARS
SEE STAIR DETAIL SHEET "SD"



HIGH CEILING POINT IS 32'-7 AT BACK OF BULING
27H TOP BOX 339"+18+9"=366" = 30'-6" APPROX. CEILING HEIGHT NEEDED
26H TOP BOX 329"+18+9"=356" = 29'-8" APPROX. CEILING HEIGHT NEEDED
25H TOP BOX 319"+18+9"=356" = 28'-10" APPROX. CEILING HEIGHT NEEDED
24H TOP BOX 303"+18+9"=330" = 27'-6" APPROX. CEILING HEIGHT NEEDED
23H TOP BOX 293"+18+9"=320" = 26'-8" APPROX. CEILING HEIGHT NEEDED

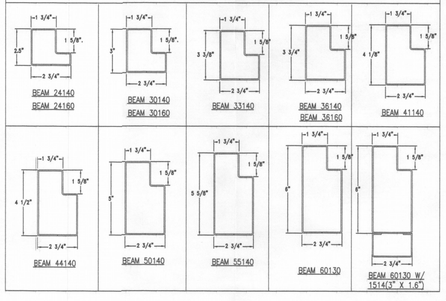
9 beam levels x2=18 beams
2 catwalk beams
16 standard beam

1 BAY OF 133" X 64"
14 BAYS OF 120" X 64"
1 BAY OF 68" X 64"

7 BAYS OF 133" X 48" 30" AISLE
99 BAYS OF 120" X 48" 30" AISLE
13 BAYS OF 120" X 48" 44" AISLE
1 BAY OF 102" X 48"
1 BAY OF 85" X 48"
1 BAY OF 72" X 48"
8 BAY OF 68" X 48"

12 BEAMS 30140-30" BUILDING COLUMN
12 BEAMS 30140-32" BUILDING COLUMN
12 BEAMS 30140-33" BUILDING COLUMN

HANNIBAL BEAMS



REGISTERED PROFESSIONAL ENGINEER
OREGON
JULY 15, 2005
ANDREW KIRBY
EXPIRES: 6-30-11

JOB # 1572
REVIEWED AND APPROVED
JUL 09 2010
Andrew L. Kirby, PE
Ph. 818-735-0719

AGREED:
CUSTOMER APPROVAL:
BY: _____
ACCEPTED THIS___DAY OF____
COMMENT: _____

UPON SIGNING THIS DRAWING ALL OF MY REQUIREMENTS HAVE BEEN ADDRESSED AND I HAVE FULL AUTHORITY TO BIND MY ORGANIZATION TO THIS PLAN. ANY CHANGES TO THIS PLAN AFTER THIS DATE WILL BE ADDITIONAL DESIGN/CONSTRUCTION COST TO THE CUSTOMER.

THESE DRAWINGS AND/OR THE ACCOMPANING SPECIFICATIONS AS INSTRUMENTS SPECIFICATIONS OF SERVICE, ARE THE EXCLUSIVE PROPERTY OF ELITE STORAGE SOLUTIONS, INC. AND THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SPACE FOR WHICH THEY WERE PREPARED. RE-USE, REPRODUCTION, OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART IS PROHIBITED EXCEPT BY WRITTEN PERMISSION FROM ELITE STORAGE SOLUTIONS, INC. TITLE TO THESE PLANS AND/OR SPECIFICATIONS SHALL REMAIN ELITE STORAGE SOLUTIONS, INC WITHOUT PREJUDICE, AND VISUAL CONTACT WITH THEM SHALL CONSTITUTE PRIMA FACIA EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

REV	DATE	DESCRIPTION

REVISIONS

ELITE STORAGE SOLUTIONS INC.
www.elitestoragesolutions.c

MANUFACTURING PLANT:
1118 W. Spring St. Monroe, GA. 30655
TEL: (770) 207-0002 FAX: (770) 207-0101

EASTERN:
115 MAIN ST. SUITE 20, N. EASTON MA. 02356
TEL: (508) 230-5755 FAX: (508) 230-5758

WESTERN:
19800 ARMSTRONG AVE. SUITE 200, IRVINE, CA. 92606
TEL: (949) 757-1377 FAX: (949) 757-1477

SOUTHERN:
1001 MACY DRIVE, ROSWELL, GA 30076
TEL: (770) 642-9130 FAX: (770) 642-9131

PENNSYLVANIA:
2 SOUTH MAIN ST. SUITE 400, PITTSTON, PA 18640
TEL: (570) 655-4280 FAX: (570) 655-8347

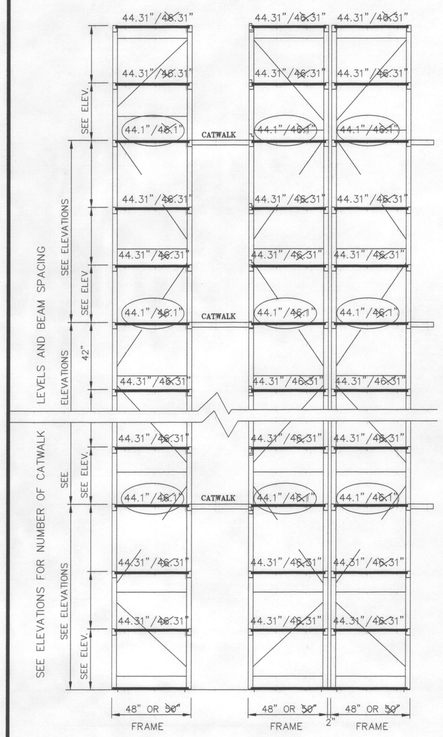
DRAWN: THUY
PROJECT MANAGER: RT
SALE:
JOB NUMBER:
DATE: 05-14-10
SCALE: 3/32"=1'-0"

PROJECT LOCATION:
ACCESS INFORMATION MANAGEMENT
7507 NE LEADBETTER ROAD
PORTLAND, OR 97203

SHEET TITLE:
FRAMING
DECKING
ELEVATIONS

DRAWING NUMBER:
10025-2

SHEET: 2 OF 4



FOR SOLID B-DECK IN SHELVES:

24 GA. GALV. SOLID-DECK @ ALL LEVELS-UP TO 50" DEEP FRAME
22 GA. GALV. SOLID-DECK @ ALL LEVELS-UP 64 OR 66"" DEEP FRAMES
24 GA. GALV. SOLID-DECK @ FLOOR ONLY

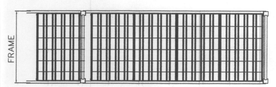
FOR PUNCHED DECK IN SHELVES:

20 GA. GALV. PUNCH-DECK @ ALL LEVELS 64" OR 66" DEEP RACK
22 GA. GALV. PUNCH-DECK @ ALL LEVELS UP TO 50" DEEP RACK
24 GA. GALV. SOLID-DECK @ FLOOR ONLY

64" DEEP NOT SHOWN

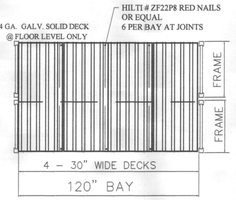
B-DECK DETAIL (B)

WIRE DECK IN SHELVES

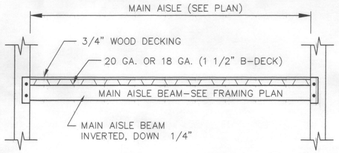


B-DECK AND PUNCH-DECK CHART

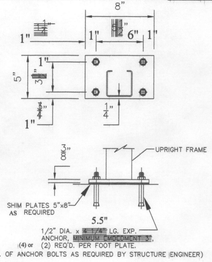
BAY WIDTH	PUNCH DECK 30"	PUNCH DECK 36"
30" – 35"	1	–
36" – 39"	–	1
40" – 65"	2	–
65" – 71"	1	1
72" – 75"	–	2
76" – 95"	3	–
95" – 101"	2	1
102" – 107"	1	2
108" – 113"	–	3
114" – 125"	4	–
126" – 131"	3	1
132" – 136"	2	2



FLOOR LEVEL ONLY



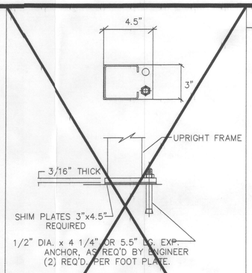
MAIN AISLE DETAIL (M)



5" x 8" x 3/8" BASEPLATE

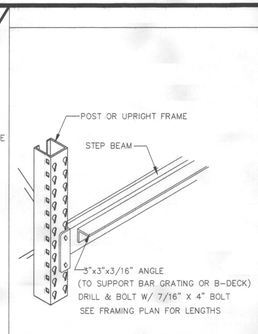
ANCHORS/SHIMS

1. ALL ANCHORS MUST BE A MINIMUM OF 1/2" X 5 1/2".
2. ANCHOR HOLES MUST BE CLEANED FREE OF CONCRETE DUST BEFORE ANCHORS ARE PLACED INTO THE HOLES.
3. RACKS MUST BE INSTALLED PLUMB AND SQUARE USE SHIMS WHERE REQUIRED.



3" x 4.5" x 3/16" BASEPLATE

FOOTPLATE DETAIL (F)



ANGLE SUPPORT DETAIL (A)

INSTALLATION NOTES:

1. MAIN AISLE WOOD MUST BE SQUARE AND NOT CROOKED DOWN THE ENTIRE LENGTH OF THE AISLE.
2. B-DECK MUST BE INSTALLED AS CLOSE TO THE SIDES OF THE MAIN AISLE AS POSSIBLE.
3. SERVICE, END AISLE, CROSS AISLE USE 1" BAR GRATING UNLESS SPECIFIED OTHERWISE ON THE FRAMING PLAN.
4. KICKPLATES MUST BE INSTALLED AT ALL FRAMES ON CROSS AISLES.
5. WOOD TO BE INSTALLED SO THAT SHEET IS CENTERED WITH THE LIFT GATE DOOR SO THAT THE T&G JOINT IS NOT NEAR THE CENTERLINE OF THE LIFT DOOR.
6. HANDRAIL WILL BE INSTALLED ON ALL OPEN AREAS OF THE MAIN AISLE AS WELL AS OPEN FRAMES ON THE CROSS AISLE.

INSTALLATION INSTRUCTIONS:

1. WOOD will be installed over corrugated metal B-decking.
2. Wood panels must be kept dry in transit, storage, during and after installation. Panels should be stored flat in a level position.
3. Wood INSTALLATION process:

– Begin installation by setting a true line with a laser or transit less less than 48" from one edge of main aisle.

– Leave a 3/8" gap/space on outer edges of panels., and

LEAVE 1/8" GAP/SPACE BETWEEN RESINDEK PANELS-1/16" MIN FOR TRED-EX

Trim the last row of panels to allow for the 3/8" gap/space on outer edges of ResinDek perimeter.

– Attached to each unit of ResinDeks is a package of 3 panel spacers. Insert spacers (2 along one long edge, 1 along a short edge) between all adjacent panels. FAILURE TO USE PANELS SPACERS MAY ALLOW FLOOR TO BUCKLE

– Attached panels to corrugated metal B-deck or other approved subflooring using a minimum of 20 fasteners per 4' x 8' sheet. (see figure A) For best result, use ResinDek tek screws furnished by Cornerstone Specialty Wood Products. Fastener should be located a minimum of 1" from tongue and groove edges and from square edges. Remove panels spacers and insert between next panels.

– Be sure that panels are installed with the correct face on top. When correctly laid, the arrow on the square edge of the panel should point up and panels should have a gap of a panel spacer's width around the perimeter of each ResinDek panel, and about 1/4" on the underside of the tongue and groove. The space/gap will always be large on the underside.

– Wood can be installed with the long direction parallel or perpendicular to the corrugated metal B-deck. All panels joints should break on ribs.

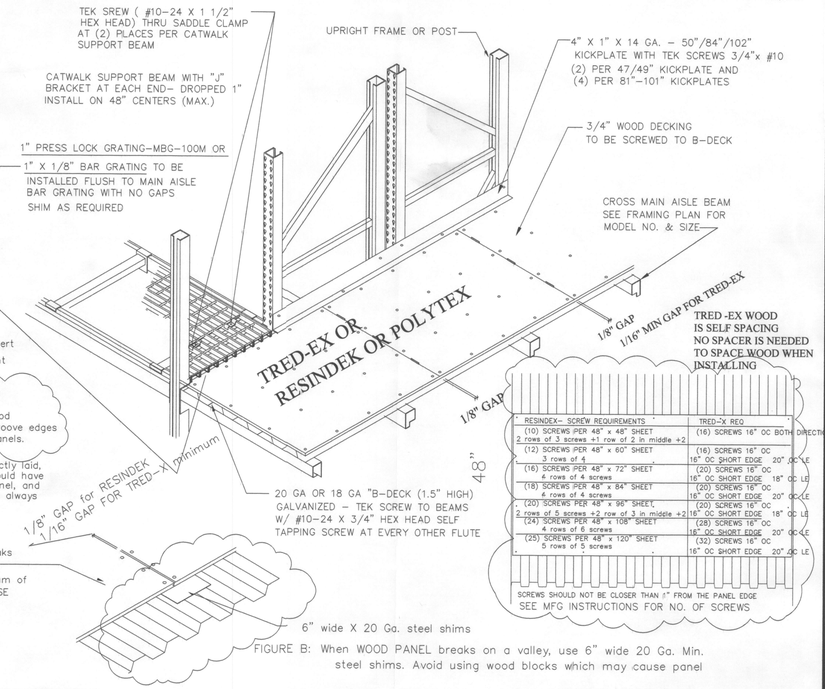
– 6" wide X 20 gauge minimum steel shims must be used when ResinDek breaks on a valley. (see figure B)

– Use fasteners long enough to the subfloor. Secure each panel with a minimum of four fasteners before installing the next panel. USE SCREW GUNS WITH A NOSE CLUTCH TO COUNTERSINK HEAD JUST BELOW THE PANEL SURFACE.

– Wood can be trimmed to size with ordinary power saws. Use carbide tipped blades for best results.

– 3/8" perimeter gaps can be hidden with toe strips or kick plates.

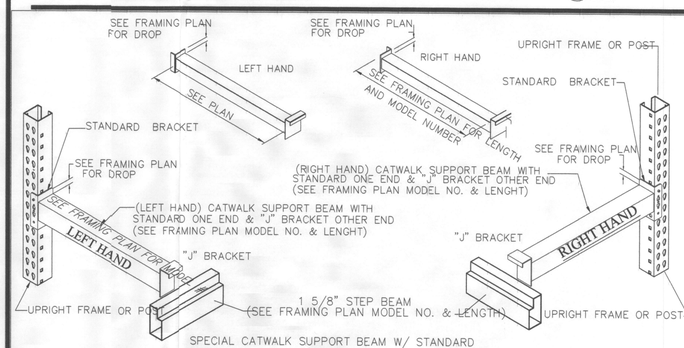
MAIN AISLE DETAIL



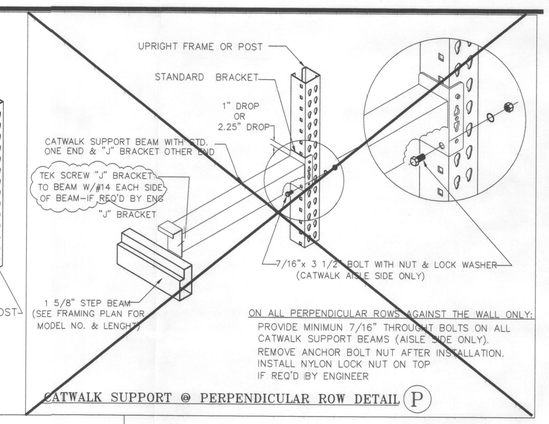
RESINDEX- SCREW REQUIREMENTS	TRED-X REQ
(10) SCREWS PER 48" x 48" SHEET 2 rows of 3 screws +1 row of 2 in middle +2	(16) SCREWS 16" OC BOTH DIRECTIONS
(12) SCREWS PER 48" x 60" SHEET 3 rows of 4	(16) SCREWS 16" OC 16" OC SHORT EDGE 20" OC LE
(16) SCREWS PER 48" x 72" SHEET 4 rows of 4 screws	(20) SCREWS 16" OC 16" OC SHORT EDGE 18" OC LE
(18) SCREWS PER 48" x 84" SHEET 6 rows of 4 screws	(20) SCREWS 16" OC 16" OC SHORT EDGE 20" OC LE
(20) SCREWS PER 48" x 96" SHEET, 2 rows of 5 screws +2 row of 3 in middle +2	(20) SCREWS 16" OC 16" OC SHORT EDGE 18" OC LE
(24) SCREWS PER 48" x 108" SHEET 4 rows of 6 screws	(28) SCREWS 16" OC 16" OC SHORT EDGE 20" OC LE
(25) SCREWS PER 48" x 120" SHEET 5 rows of 5 screws	(32) SCREWS 16" OC 16" OC SHORT EDGE 20" OC LE

SCREWS SHOULD NOT BE CLOSER THAN 1" FROM THE PANEL EDGE
SEE MFG INSTRUCTIONS FOR NO. OF SCREWS

FIGURE B: When WOOD PANEL breaks on a valley, use 6" wide 20 Ga. Min. steel shims. Avoid using wood blocks which may cause panel

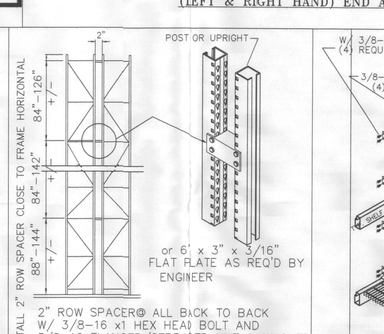


(IEFT & RIGHT HAND) END AISLE CATWALK SUPPORT DETAIL (E)



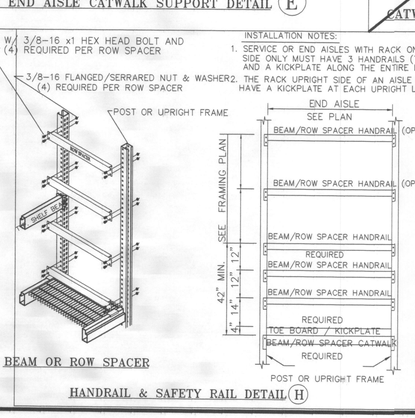
ON ALL PERPENDICULAR ROWS AGAINST THE WALL ONLY:
PROVIDE MINIMUN 7/16" THROUGH BOLTS ON ALL CATWALK SUPPORT BEAMS (AISLE SIDE ONLY).
REMOVE ANCHOR BOLT NUT AFTER INSTALLATION.
INSTALL NYLON LOCK NUT ON TOP
IF REQ'D BY ENGINEER

CATWALK SUPPORT @ PERPENDICULAR ROW DETAIL (P)



2" ROW SPACER@ ALL BACK TO BACK
W/ 3/8-16 x1 HEX HEAD BOLT AND
3/8-16 FLANGED/SERRARED NUT & WASHER
(4) REQUIRED PER ROW SPACER
INSTALL ROW SPACERS IN LINE W/HORIZONTAL
IF POSSIBLE

2" ROW SPACER DETAIL (R)

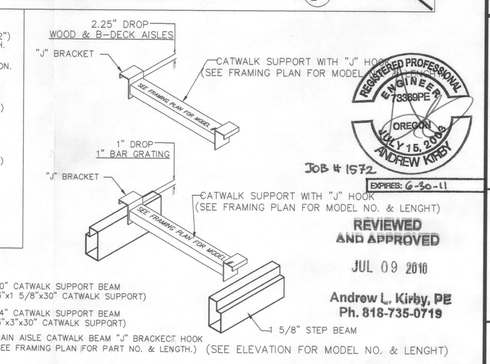


BEAM OR ROW SPACER

INSTALLATION NOTES:

1. SERVICE OR END AISLES WITH RACK ON ONE SIDE ONLY MUST HAVE 3 HANDRAILS (TOP 42") AND A KICKPLATE ALONG THE ENTIRE LENGTH.
2. THE RACK UPRIGHT SIDE OF AN AISLE MUST HAVE A KICKPLATE AT EACH UPRIGHT LOCATION.

HANDRAIL & SAFETY RAIL DETAIL (H)



– 30" CATWALK SUPPORT BEAM (3"x1 5/8"x30" CATWALK SUPPORT)
– 44" CATWALK SUPPORT BEAM (3"x3"x30" CATWALK SUPPORT)
– MAIN AISLE CATWALK BEAM "J" BRACKECT HOOK (SEE FRAMING PLAN FOR PART NO. & LENGTH.) (SEE ELEVATION FOR MODEL NO. & LENGHT)

CATWALK SUPPORT W/ "J" HOOK DETAIL (C)

RECEIVED
JUL 0 6 2010
Andrew L. Kirby, PE

REGISTERED PROFESSIONAL ENGINEER 73680PE OREGON JULY 15, 2009 ANDREW KIRBY
EXPIRES: 6-30-11

JOB # 1572

REVIEWED AND APPROVED
JUL 09 2010
Andrew L. Kirby, PE
Ph. 818-735-0719

AGREED:
CUSTOMER APPROVAL:
BY: _____
ACCEPTED THIS___DAY OF____
COMMENT: _____

UPON SIGNING THIS DRAWING ALL OF MY REQUIREMENTS HAVE BEEN ADDRESSED AND I HAVE FULL AUTHORITY TO BIND MY ORGANIZATION TO THIS PLAN. ANY CHANGES TO THIS PLAN AFTER THIS DATE WILL BE ADDITIONAL DESIGN/CONSTRUCTION COST TO THE CUSTOMER.

THESE DRAWINGS AND/OR THE ACCOMPANING SPECIFICATIONS AS INSTRUMENTS SPECIFICATIONS OF SERVICE, ARE THE EXCLUSIVE PROPERTY OF ELITE STORAGE SOLUTIONS, INC. AND THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SPACE FOR WHICH THEY WERE PREPARED. RE-USE, REPRODUCTION, OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART IS PROHIBITES EXCEPT BY WRITTEN PERMISSION FROM ELITE STORAGE SOLUTIONS, INC. TITLE TO THESE PLANS AND/OR SPECIFICATIONS SHALL REMAIN ELITE STORAGE SOLUTIONS, INC. WITHOUT PREJUDICE, AND VISUAL CONTACT WITH THEM SHALL CONSTITU PRIMA FACIA EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

REV	DATE	DESCRIPTION

REVISIONS

ELITE STORAGE SOLUTIONS INC.
www.elitestoragesolutions

MANUFACTURING PLANT:
1118 W. Spring St. Monroe, GA. 30655
TEL: (770) 207-0002 FAX: (770) 207-0101

EASTERN:
115 MAIN ST. SUITE 2D, N. EASTON MA. 02356
TEL: (508) 230-5755 FAX: (508) 230-5758

WESTERN:
16808 ARMSTRONG AVE. SUITE 200, IRVINE, CA. 92606
TEL: (949) 757-1377 FAX: (949) 757-1477

SOUTHERN:
1001 MACY DRIVE, ROSWELL, GA 30076
TEL: (770) 642-9130 FAX: (770) 642-9131

PENNSYLVANIA:
2 SOUTH MAIN ST. SUITE 400, PITTSTON, PA 18640
TEL: (570) 655-4260 FAX: (570) 655-8347

DRAWN: RT
PROJECT MANAGER: RT
SALE:
JOB NUMBER:
DATE: 7-24-09
SCALE: NONE

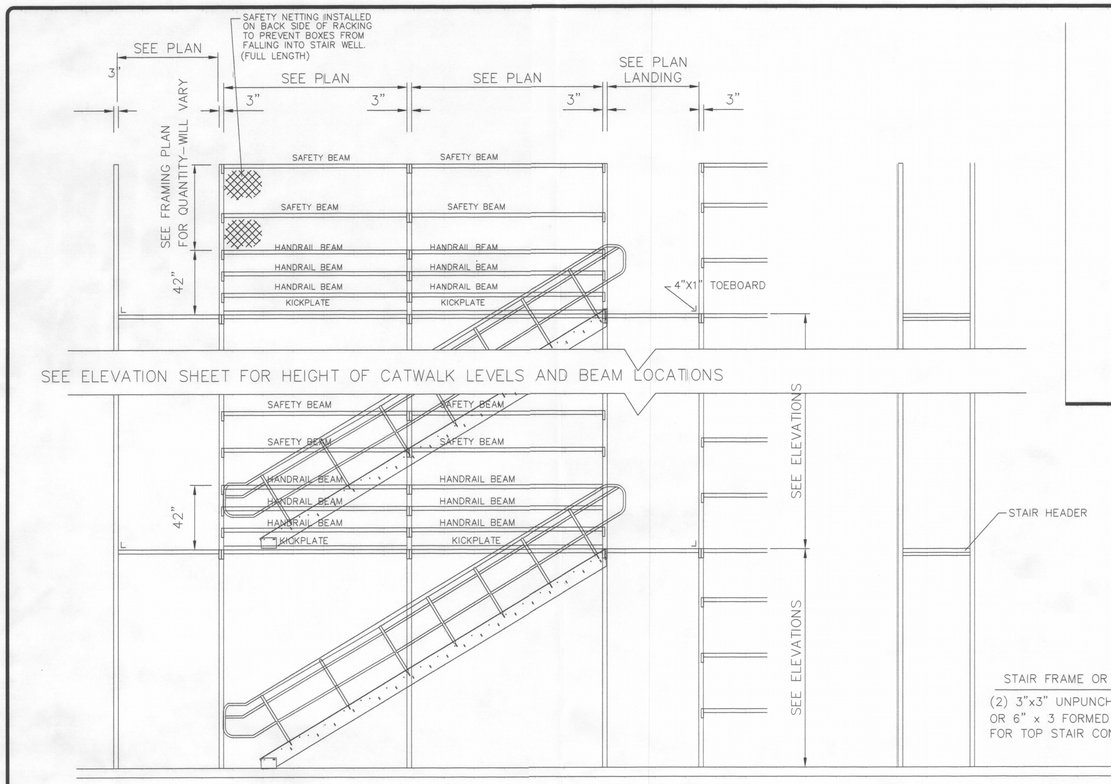
PROJECT LOCATION:
ACCESS INFORMATION MANAGEMENT
7507 NE LEADBETTER ROAD
PORTLAND, OR 97203

SHEET TITLE:
COMPONENT DETAILS
SHEET CD

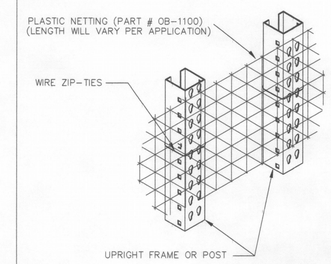
DRAWING NUMBER:
10025-3

SHEET: 3 OF 4

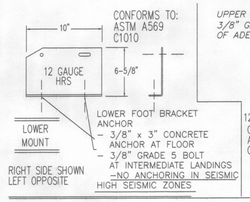
RECEIVED
JUL 08 2010
Andrew L. Kirby, PE

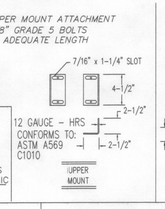


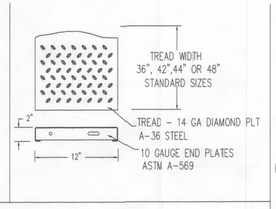
SIDE VIEW OF STAIR



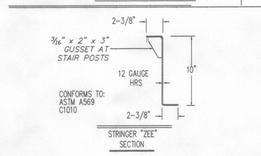
PLASTIC NETTING DETAIL

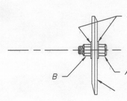






IBC STAIRWAY 36"	"H"	"L"	"X"	"Y"
STAIR (IBC-21-36)	142"	224.5"	6.7"	31.2°
STAIR (IBC-20-36)	140"	210.5"	7"	32.4°
STAIR (IBC-21-36)	138"	211.7"	6.9"	31.9°
STAIR (IBC-19-36)	130"	201.3"	6.8"	31.6°
STAIR (IBC-19-36)	128"	202"	6.7"	31.0°
STAIR (IBC-17-36)	116"	179"	6.8"	31.4°
STAIR (IBC-17-36)	114"	180.3"	6.7	30.8°
STAIR (IBC-16-36)	106"	179"	6.6"	30.5°
STAIR (IBC-15-36)	104"	156"	6.9	32.1°
STAIR (IBC-14-36)	96"	145.5	6.8	31.7°
STAIR (IBC-14-36)	94"	146.7	6.7	30.9°





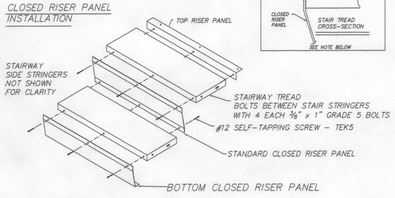
TYPICAL BOLTED CONNECTIONS

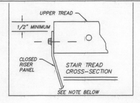
A - 3/8" x 1" NC BOLT - ASTM A307
B - 3/8" NC NYLON LOCK NUT
C - 3/8" USS FLAT WASHER
D - ITEMS TO BE CONNECTED

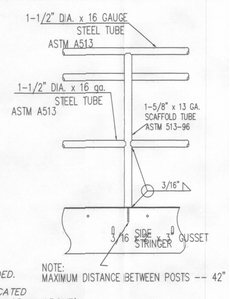
ALL HARDWARE CADIUM PLATED

ONLY IF REQUIRDED BY THE BUILDING DEPARTMENT

CLOSED RISER PANEL INSTALLATION



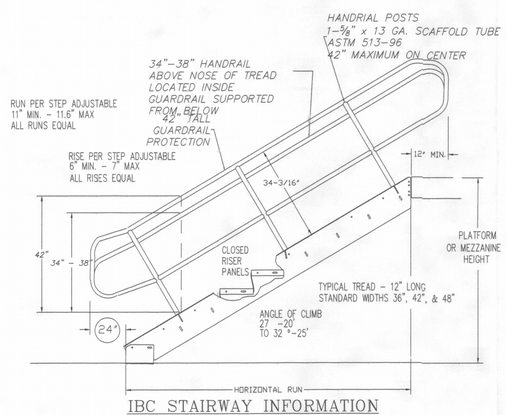




NOTE:
HOLES ARE PROVIDED IN THE CLOSED RISER PANELS, HOLES IN THE STAIR TREADS ARE FIELD DRILLED USING SELF-DRILLING/SELF-TAPPING SCREWS PROVIDED.

MOUNT CLOSED RISER PANELS SO THAT THE UPPER EDGE OF THE PANEL IS LOCATED A MINIMUM OF 1/2" BELOW THE UPPER SURFACE OF THE UPPER TREAD. (SEE DIAGRAM ABOVE)

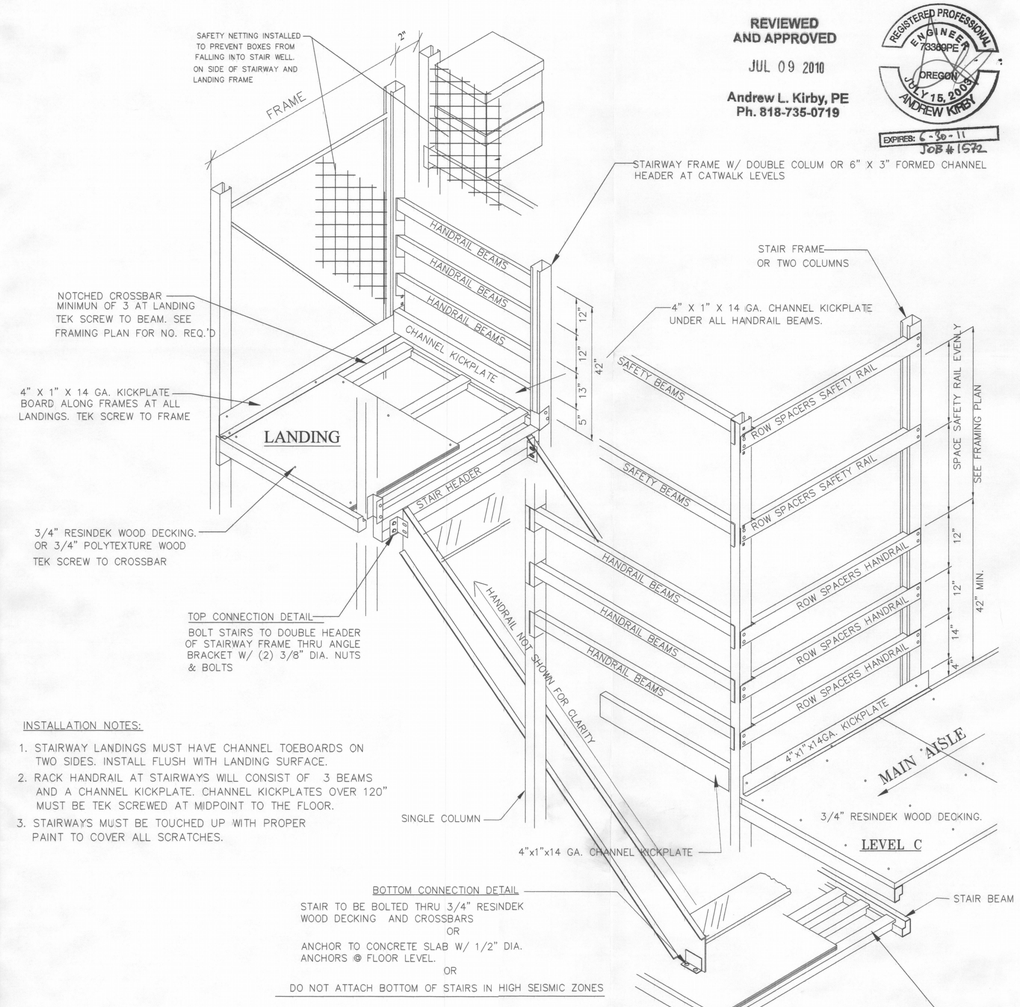
NOTE:
MAXIMUM DISTANCE BETWEEN POSTS -- 42"



IBC STAIRWAY INFORMATION

REVIEWED AND APPROVED
JUL 09 2010
Andrew L. Kirby, PE
Ph. 818-735-0719

REGISTERED PROFESSIONAL ENGINEER 73380PE OREGON JULY 15, 2009 ANDREW KIRBY
EXPIRES: 6-30-11
JOB # 1572



INSTALLATION NOTES:

1. STAIRWAY LANDINGS MUST HAVE CHANNEL TOEBOARDS ON TWO SIDES. INSTALL FLUSH WITH LANDING SURFACE.
2. RACK HANDRAIL AT STAIRWAYS WILL CONSIST OF 3 BEAMS AND A CHANNEL KICKPLATE. CHANNEL KICKPLATES OVER 120" MUST BE TEK SCREWED AT MIDPOINT TO THE FLOOR.
3. STAIRWAYS MUST BE TOUCHED UP WITH PROPER PAINT TO COVER ALL SCRATCHES.

STAIR & LANDING DETAIL- (S)

NOT TO SCALE

AGREED:

CUSTOMER APPROVAL:
BY: _____
ACCEPTED THIS___DAY OF____
COMMENT: _____

UPON SIGNING THIS DRAWING ALL OF MY REQUIREMENTS HAVE BEEN ADDRESSED AND I HAVE FULL AUTHORITY TO BIND MY ORGANIZATION TO THIS PLAN. ANY CHANGES TO THIS PLAN AFTER THIS DATE WILL BE ADDITIONAL DESIGN/CONSTRUCTION COST TO THE CUSTOMER.

THESE DRAWINGS AND/OR THE ACCOMPANING SPECIFICATIONS AS INSTRUMENTS SPECIFICATIONS OF SERVICE, ARE THE EXCLUSIVE PROPERTY OF ELITE STORAGE SOLUTIONS, INC. AND THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SPACE FOR WHICH THEY WERE PREPARED. RE-USE, REPRODUCTION, OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART IS PROHIBITES EXCEPT BY WRITTEN PERMISSION FROM ELITE STORAGE SOLUTIONS, INC. TITLE TO THESE PLANS AND/OR SPECIFICATIONS SHALL REMAIN ELITE STORAGE SOLUTIONS, INC. WITHOUT PREJUDICE, AND VISUAL CONTACT WITH THEM SHALL CONSTITUT PRIMA FACIA EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

REV	DATE	DESCRIPTION

REVISIONS

ELITE STORAGE SOLUTIONS INC.
www.elitestoragesolutions

MANUFACTURING PLANT:
1118 W. Spring St. Monroe, GA. 30655
TEL: (770) 207-0002 FAX: (770) 207-0101

EASTERN:
115 MAIN ST. SUITE 2D, N. EASTON MA. 02356
TEL: (508) 230-5755 FAX: (508) 230-5758

WESTERN:
16808 ARMSTRONG AVE. SUITE 200, IRVINE, CA. 92606
TEL: (949) 757-1377 FAX: (949) 757-1477

SOUTHERN:
1001 MACY DRIVE, ROSWELL, GA 30076
TEL: (770) 642-9130 FAX: (770) 642-9131

PENNSYLVANIA:
2 SOUTH MAIN ST. SUITE 400, PITTSTON, PA 18640
TEL: (570) 655-4260 FAX: (570) 655-8347

DRAWN:
PROJECT MANAGER:
SALE:
JOB NUMBER:
DATE: 00-00-00
SCALE: 1"=1"

PROJECT LOCATION:

ACCESS INFORMATION MANAGEMENT

7507 NE LEADBETTER ROAD
PORTLAND, OR 97203

SHEET TITLE:

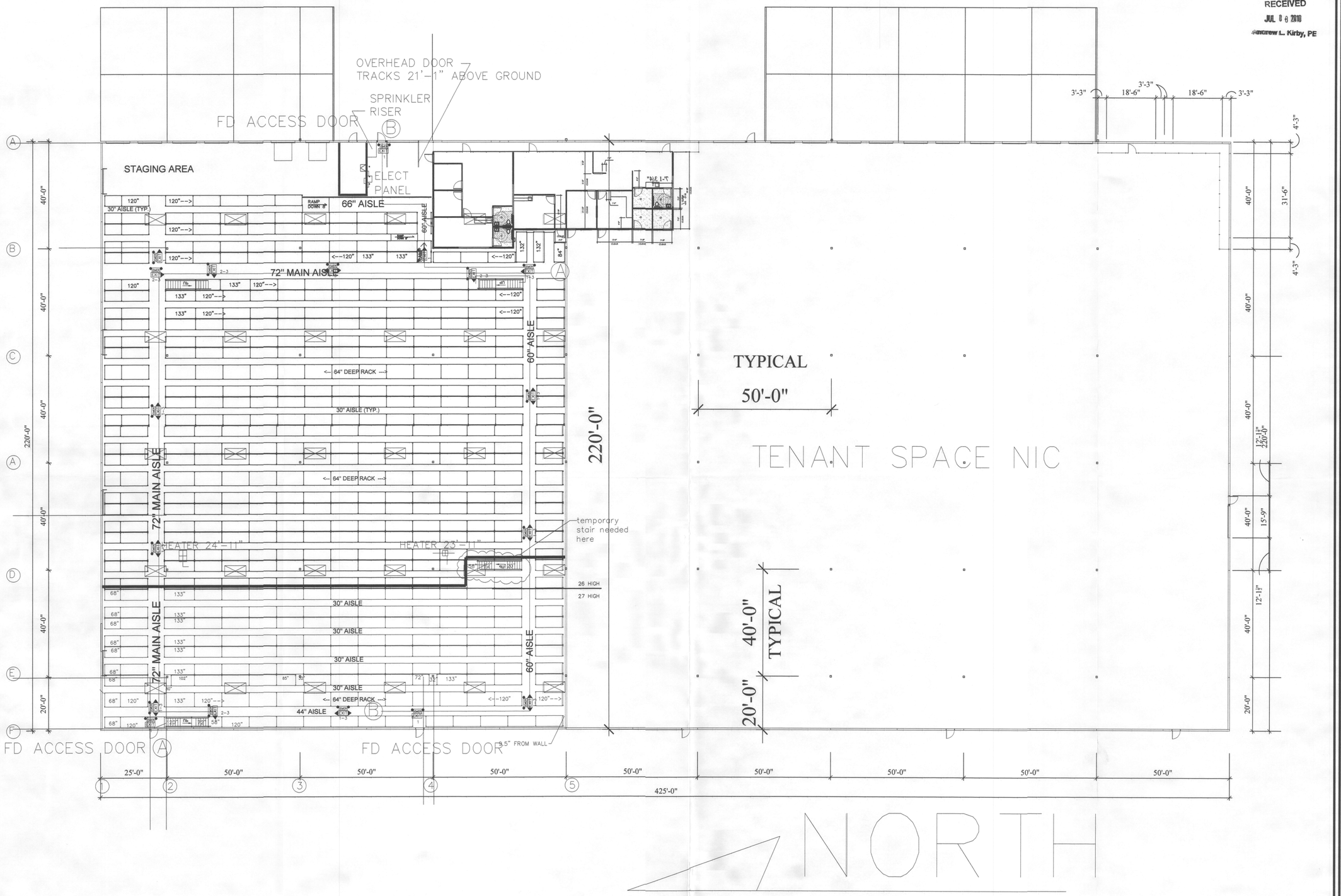
STAIR DETAILS

SHEET SD

DRAWING NUMBER:
10025-4

SHEET: 4 OF 4

RECEIVED
JUL 0 8 2010
Andrew L. Kirby, PE



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

THE FPI CONSORTIUM INC.
3600 CLAYTON RD. SUITE E
CONCORD, CALIFORNIA 94521
W.Comeaux@the-fpi.com
www.the-fpi.com
(PH) 925.825.4643 (Fax) 925.691.4367

DRAWN BY: COMEAUX
SCALE: 1/16"=1'-0"
DATE: 6-2-10
TITLE: HIGH PILE ANAL
PROJECT NO: 08-1739
SHEET NO: 1 of 2

ACCESS INFO. MGT.
7507 NE LEADBETTER
PORTLAND, OR

FP-1

RECEIVED
JUL 0 8 2010
Andrew L. Kirby, PE

SHEET NOTES

1. APPLICABLE CODES
   - INTERNATIONAL BUILDING CODE (2006 EDITION)
   - OREGON FIRE CODE
   - NFPA 13 (2002 EDITION)
   - NFPA 72 (1999 EDITION)
2. BUILDING DESCRIPTION
   - TYPE VI B CONSTRUCTION
   - BUILT UP ROOF ON METAL DECK ON STEEL BAR JOIST
   - ON STEEL COLUMNS, CONCRETE TILT-UP WALLS.
   - AREA OF STORAGE = 36,500 SQUARE FEET
   - UNDER SIDE OF ROOF HEIGHT= 32 FEET 1 INCHES
   - STEEL BAR JOIST HEIGHT= 2 FEET 1.5 INCHES
   - STORAGE AREA SEPARATED FROM REMAINDER
   - OF BUILDING BY GYP BOARD WALL
   -
3. STORAGE CONFIGURATION
   - MULTIROW RACKS WITH 50% OPEN METAL DECKING
   - COMMODITY= CLASS III PAPER IN CARDBOARD CARTONS
   - STORED IN METAL RACKS
   - 2 CATWALK LEVEL, 3 LEVELS HIGH PER CATWALK LEVEL.
   - STORAGE HEIGHT= 28 FEET 3 INCHES
   - CLEARANCE BETWEEN SPRINKLER AND STORAGE MINIMUM 18-INCHES
   - NO ENCAPSULATED OR BANDED MATERIAL
   - SERVICE AISLES BETWEEN RACKS CONSIDERED LONGITUDINAL FULE SPACE 42-INCHES
4. EGRESS ANALYSIS
   - OCCUPANT LOAD FACTOR= 500
   - CALCULATED OCCUPANT LOAD= 73
   - ACTUAL NUMBER OF OCCUPANTS= 3 TO 5
   - ACTUAL STAIR WIDTH= 36 INCHES
   - EXIT AISLE WIDTH= 44 - 72 INCHES
   - EXIT DOOR WIDTH= 3 FEET
   - ALL EXTERIOR EXIT DOORS EQUIPPED WITH PANIC HARDWARE
   - MAXIMUM TRAVEL DISTANCE WITH VENTS = 400 FEET
   - NUMBER OF REQUIRED EXITS= 2
   - VERTICAL TRAVEL ON STAIRS 48 FEET.
5. FIRE EXTINGUISHERS
   - ABC (AMMONIUM PHOSPHATE) 10lbs
6. SPRINKLER SYSTEM
   - CEILING DESIGN = 0.3 GPM / 2000 SQ. FT. 165 DEG. F SPRINKLER
   - IN-RACK SPRINKLERS BELOW EACH CATWALK LEVEL.
   - IN-RACK SPRINKLERS LOCATED IN CENTER OF AISLES AND TRANSVERSE FLUES.
   - IN-RACK SPRINKLERS UPRIGHT QUICK RESPONSE WITH WATER SHIELD.
7. SMOKE AND HEAT VENTING

   STORAGE AREA 36,500 SQ. FT.
   VENTING RATIO REQUIRED 1 TO 75
   36,500 SQ. FT. / 75 = 492 SQ. FT. VENTING REQUIRED
   492 / 32 = 16 VENTS REQUIRED.

   30 EXISTING VENTS PROVIDING RATIO OF 1 TO 38

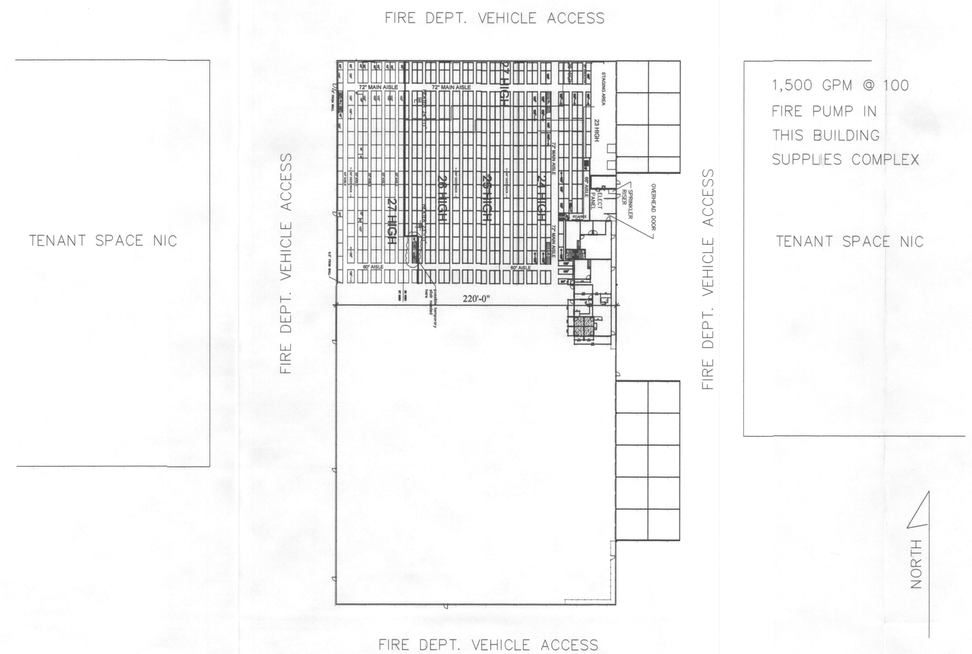
EGRESS ANALYSIS

2 LEVEL CATWALK SYSTEM
VERTICAL TRAVEL ON STAIRS 48 FEET.
EXIT TRAVEL PER IBC SECTION 1016.2
MAXIMUM TRAVEL WITH SPRINKLERS AND SMOKE VENTS 400 FT.

Ⓐ TRAVEL FROM POINT A UPPER LEVEL TO EXIT DOOR A 335 FT.
Ⓑ TRAVEL FROM POINT B UPPER LEVEL TO EXIT DOOR B 400 FT.

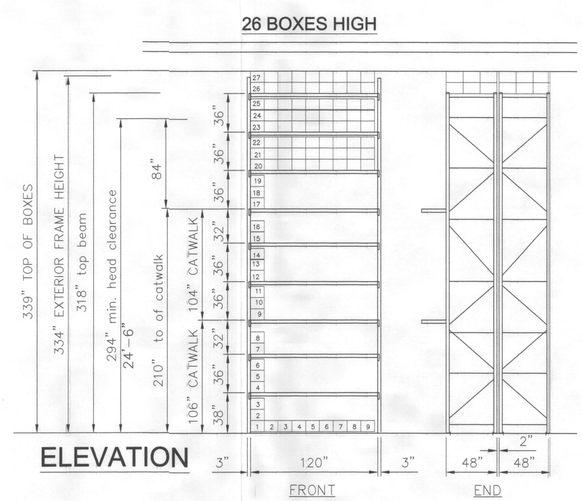
⊠ 4 by 8 SMOKE AND HEAT VENT

EXIT SIGN AND EMERGENCY LIGHT 90 BATTERY BACK UP.



N. LEADBETTER DR.

SITE PLAN NTS



ELEVATION

THE FPI CONSORTIUM INC.
3600 CLAYTON RD, SUITE E
CONCORD, CALIFORNIA 94521
W.Comeaux@the-fpi.com
www.the-fpi.com
(PH) 925.825.4643
(Fax) 925.691.4367

DRAWN BY: COMEAUX
SCALE: AS NOTED
DATE: 6-2-10
TITLE: H P NOTES
PROJECT NO: 08-1739
SHEET NO: 2 of 2

ACCESS INFO. MGT.
7507 NE LEADBETTER
PORTLAND, OR

FP-2