

**GENERAL NOTES**

1.0 GENERAL

1.1 JOHNSTON BURKHOLDER ASSOCIATES HAS DESIGNED THE BASE ANCHORAGE FOR THE FIXTURES SHOWN ON THIS INSTALLATION DRAWING TO RESIST SEISMIC LATERAL FORCES. INSTALLATION OF THE FIXTURES SHALL MEET THE LAYOUT SHOWN ON THE FIXTURE LAYOUT PLAN, PROVIDED BY OWNER.

2.0 SLAB AND FOUNDATION

2.1 SLAB ON GRADE IS ASSUMED TO HAVE A MINIMUM OF 3,000 PSI COMPRESSIVE STRENGTH.

2.2 THE SLAB ON GRADE IS ASSUMED TO BE 4" MINIMUM OR 4" INCHES THICK (1 1/2 INCHES THICK MINIMUM AT STORAGE AREAS), UNREINFORCED AND PLACED OVER A MINIMUM OF 4 INCHES OF DRAINAGE FILL.

2.3 THE SLAB ON GRADE IS DESIGNED TO BEAR ON A NET SOIL BEARING CAPACITY OF 1500 PSF MINIMUM.

3.0 MATERIAL FOR RACKS AND ANCHORAGE

3.1 ALL ANCHORS TO THE SLAB SHALL BE AS NOTED ON THESE PLANS.

3.2 OWNER IS TO PROVIDE MAINTENANCE PER RMI 1.4.1.

3.3 FIXTURE INSTALLER SHALL OBTAIN OUT-OF-PLUMB INSTALLATION TOLERANCE FROM FIXTURE SUPPLIER PRIOR TO INSTALLATION PER RMI, SECTION 1.4.11.1.

3.4 NO FIELD WELDING IS PERMITTED. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS, IN AN APPROVED SHOP USE E70XX WELD RODS OR EQUAL TO TENSILE STRENGTH OF BASE METAL OF WELDMENTS. PER AWS D1.1 OR D1.3.

3.5 PROVIDE 9" AT 120" TALL RACKS AND 4" AT RACKS LESS THAN 120" (OR EQUAL TO 9% OF THE UPRIGHT FRAME HEIGHT) MINIMUM CLEARANCE BETWEEN OTHER RACK FIXTURES OR ADJACENT BUILDING ELEMENTS PER ASCE 7-10, SECTION 15.5.3.3.

4.0 ROLES AND RESPONSIBILITIES FOR DEMOLITION AND INSTALLATION OF SHELVING AND RACKING FIXTURES

4.1 GENERAL CONTRACTOR TO ANCHOR ALL SHELVING AND RACKING FIXTURES ACCORDING TO THE REQUIREMENTS NOTED ON SHEETS FXS1 AND FXS2.

4.2 FIXTURE ANCHORING SHALL BE ACCOMPLISHED SIMULTANEOUSLY WITH FIXTURE INSTALLATION.

4.3 GENERAL CONTRACTOR SHALL ENSURE THAT PROPER PROCEDURES AND WORK SEGREGATION ARE IN PLACE DURING ALL FIXTURE ANCHORING PROCEDURES.

4.4 GENERAL CONTRACTOR TO CLEAN ALL RESIDUE FROM SURROUNDING FIXTURES AND AREA AS ANCHORING IS COMPLETED (CLEAN AS YOU GO).

4.5 GENERAL CONTRACTOR IS TO PERFORM ALL REMOVAL AND INSTALLATION OF ANCHOR STRAPS AND/OR BOLTS AT FIXTURES REQUIRING PERMANENT OR TEMPORARY RELOCATION.

**SPECIAL INSPECTIONS REQUIRED**

SPECIAL INSPECTION AS REQUIRED BY SECTION 1704 OF THE 2018 NORTH CAROLINA BUILDING CODE OR BY THE ENGINEER OF RECORD:

**PERIODIC SPECIAL INSPECTIONS:**

1. POST INSTALLED ANCHORS - MECHANICAL - USED FOR THE ANCHORAGE OF STORAGE RACK OR SALES FLOOR SHELVING FIXTURES. PER SECTION 1705.3, TABLE 1705.3.4(B) AND 1705.12.7 OF THE 2018 NORTH CAROLINA BUILDING CODE FOR EACH ANCHOR LISTED IN THE ANCHOR BOLT DETAIL, ON SHEET FXS2.

2. POST INSTALLED ANCHORS - ADHESIVE - USED FOR THE ANCHORAGE OF STORAGE RACK FIXTURES. PER SECTION 1705.3, TABLE 1705.3.4(B) AND 1705.12.7 OF THE 2018 NORTH CAROLINA BUILDING CODE FOR EACH ANCHOR LISTED IN THE "TYPICAL ANCHOR REPLACEMENT DETAIL" ON SHEET FXS2.

**NOTES:**

1. ANCHOR BOLTS AND STRAPS AS NOTED ARE FURNISHED BY AND INSTALLED BY THE GENERAL CONTRACTOR (GC).

2. ANCHOR STRAP SUPPLIER CONTACT INFORMATION:  
 LOZIER, JOSH GOEDKEN, joshua.goedken@lozier.biz, (402) 457-8379  
 MADIX, CHERI BAGLEY, cbagley@madixinc.com, (256) 836-6354

**TEMPORARY ANCHORAGE BILL OF MATERIALS**

USAGE	MATERIAL TYPE	COUNT
TEMP ANCHOR	DEWALT SCREW BOLT - 1/2" DIAMETER x 2 1/2" (RPM1411220)	332
TEMP STRAP	ANCHOR STRAPS (GONDOLA)	268

**ANCHORAGE BILL OF MATERIALS**

USAGE	MATERIAL TYPE	COUNT
ANCHOR	DEWALT SCREW BOLT - 1/2" DIAMETER x 3" (RPM1411380)	62
ANCHOR	DEWALT SCREW BOLT - 1/4" DIAMETER x 1 3/4" (RPM1411260)	34
ANCHOR	DEWALT SCREW BOLT - 3/8" DIAMETER x 2 1/2" (RPM1411220)	332
STRAP	ANCHOR STRAPS (GONDOLA)	268
WALL ANCHOR	CMU - 3/8" DIA x 5" TW RED HEAD LARGE DIAMETER TAPCON (#LDT3850)	9
WALL ANCHOR	MTL STUD WALLS - 1/4" DIA x 6" LAG SCREWS	60

**TEMPORARY ANCHORAGE BILL OF MATERIALS**

USAGE	MATERIAL TYPE	COUNT
TEMP ANCHOR	DEWALT SCREW BOLT - 1/2" DIAMETER x 2 1/2" (RPM1411220)	332
TEMP STRAP	ANCHOR STRAPS (GONDOLA)	268

**SHELVING FIXTURE & ANCHORAGE SCHEDULE**

FIXTURE MARK	FIXTURE DESCRIPTION	FIXTURE HEIGHT	ANCHORAGE DETAIL
15S	HALF GONDOLA	54"	1A-FXS2
18T	HALF GONDOLA	80"	1A-FXS2
18V	HALF GONDOLA	78"	1A-FXS2
18W	HALF GONDOLA	84"	1A-FXS2
18X	HALF GONDOLA	90"	1A-FXS2
24V	HALF GONDOLA	78"	1A-FXS2
24W	HALF GONDOLA	84"	1A-FXS2
24X	HALF GONDOLA	90"	1A-FXS2
24YSD	SUPER DUTY HALF GONDOLA	90"	1C-FXS2
30VZ	HALF GONDOLA	120"	1A-FXS2
33W	HALF GONDOLA	84"	1A-FXS2
36V	HALF GONDOLA	78"	1B-FXS2
2490 EC	END CAP	90"	1B-FXS2
3678 EC	END CAP	78"	1B-FXS2

**ANCHORAGE DETAIL SYMBOLS:**

- (SD = SUPER DUTY, IF NOTED)
- 24VSD: SHELVING DEPTH (IN INCHES)
- 24V: END FRAME HEIGHT (IN INCHES)
- 24V: ANCHOR BOLT (REF DETAILS)
- 24V: SHELVING FIXTURE TYPE MARK AND HEIGHT, PER SCHEDULE
- 24V: SHELVING WIDTH (IN INCHES)
- HALF GONDOLA: FIXTURE SYMBOL
- 3678 EC: SHELVING DEPTH (IN INCHES)
- 3678 EC: END FRAME HEIGHT (IN INCHES)
- 3678 EC: ANCHOR BOLT (REF DETAILS)
- 3678 EC: SHELVING WIDTH (IN INCHES)
- END CAP: FIXTURE SYMBOL

NOTE: ANCHORS SHOWN ABOVE ARE FOR EXAMPLE ONLY. REFER TO PLAN AND DETAILS FOR ACTUAL ANCHOR CONFIGURATION.

**RACK FIXTURE SCHEDULE**

FIXTURE MARK	FIXTURE DESCRIPTION	TOP SHELF HEIGHT	FRAME MARK	MAX SHELF LOAD (LBS)
B	STORAGE RACK	120"	FRAME: 24-120 125S	3000
BAD	DESK STORAGE RACK	120"	DESK: 2444-120 075A	1200
D	STORAGE RACK	120"	FRAME: 24-120 075A	1200
M09	DESK STORAGE RACK	120"	DESK: 2444-120 075A	1200

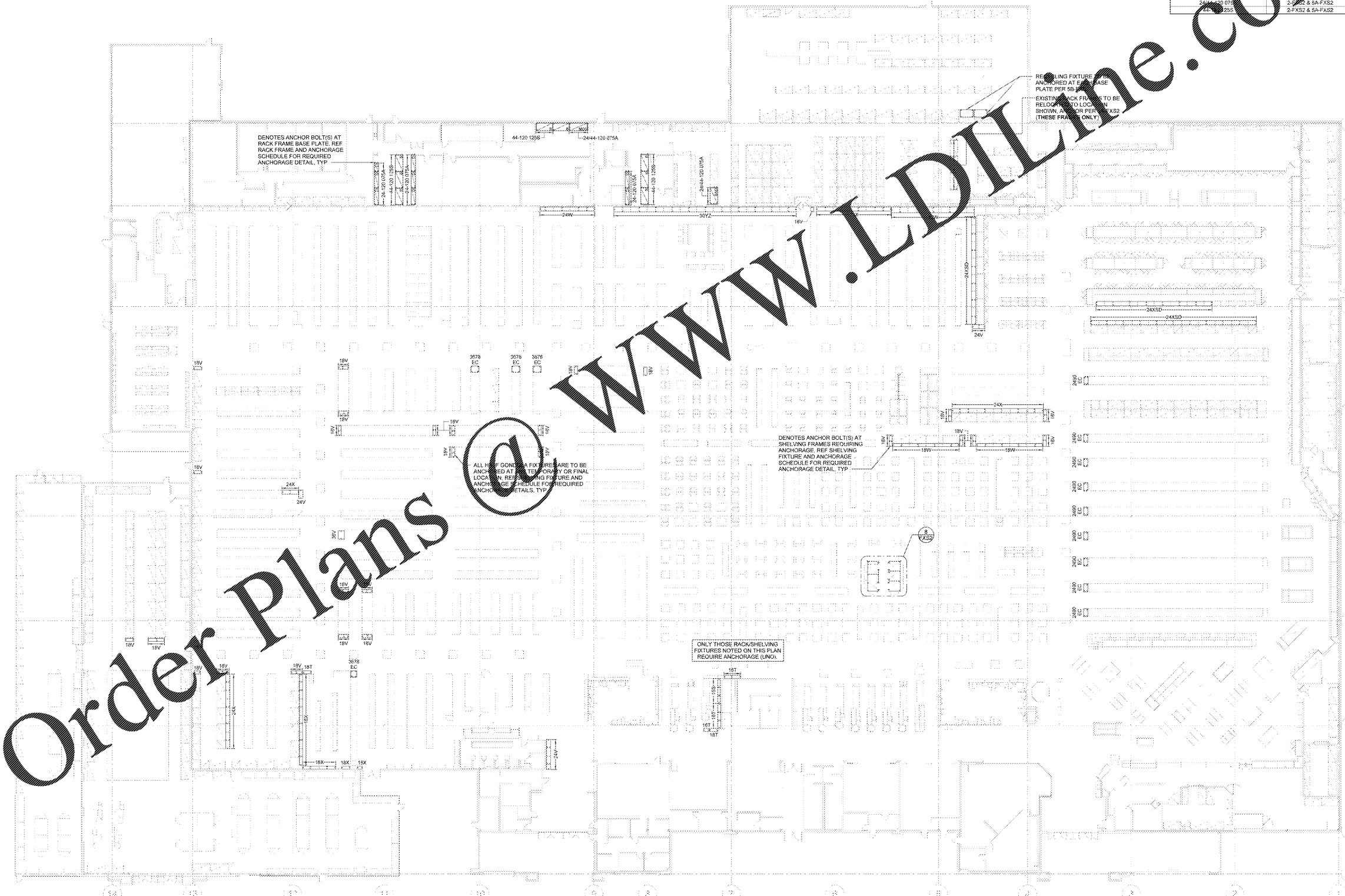
**RACK FRAME ANCHORAGE SCHEDULE**

FRAME MARK	ANCHOR DETAIL	FRAME COUNT
24-120 075A	2-FXS2 & 5A-FXS2	11
24-120 125S	2-FXS2 & 5A-FXS2	4
24-120 075A	2-FXS2 & 5A-FXS2	10

**RACK FIXTURE SYMBOL LEGEND**

- ANCHOR BOLT (REF DETAILS)
- RACK FIXTURE MARK (SHELF CONFIGURATION VARIES - BY OWNER)
- FRAME POST TYPE (REF SCHEDULE (A + UA))
- FRAME POST WALL THICKNESS (INCHES, 0.75 = 0.075")
- FRAME HEIGHT (IN INCHES)
- FRAME DEPTH (IN INCHES) ("2444" = DESK)
- TYP RACK FIXTURE SYMBOL
- NEW RACK
- EXISTING RACK
- RELOCATED EXISTING RACK
- EXISTING RACK WITH NEW SHELF CONFIGURATION
- EXISTING RACK WITH NEW FRAMES

DENOTES RACK FRAME LOCATIONS WITH MISSING OR DAMAGED ANCHOR BOLTS AT ONE OR BOTH BASE PLATES. REF PLAN FOR ANCHORAGE NOTES.



1 RACK AND SHELVING FIXTURE ANCHOR PLAN  
1" = 20'-0"

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FIXTURE ANCHORAGE PLAN AND NOTES

SHEET: FXS1