

DESIGN LOADS	
1. BUILDING CODE A. BUILDING CODE	2018 IBC WITH 2020 GEORGIA AMENDMENTS
2. GRAVITY LOADS A. REFER TO MANUFACTURER'S RATED LOADS	
3. LATERAL LOADS A. SEISMIC LOADS	
1. 5% DAMPED SPECTRAL RESPONSE COEFF (S _{ds})	0.100 g
2. 1-SEC PERIOD SPECTRAL RESPONSE COEFF (S _{d1})	0.135 g
3. SEISMIC DESIGN CATEGORY	C
4. SEISMIC SITE CLASS	D (DEFAULT)
5. NON-BUILDING STRUCTURAL SYSTEM AND SEISMIC RESISTING SYSTEM	STEEL STORAGE RACKS
6. RESPONSE MODIFICATION FACTOR (R)	4.0
7. OVERSTRENGTH FACTOR (O _s)	2.0
8. IMPORTANCE FACTOR (I _p)	
9. SALES FLOOR & GARDEN CENTER AREA STORAGE AREA	1.5 (PUBLIC ACCESS AREA)
10. ANALYSIS PROCEDURE	1.0 (NO PUBLIC ACCESS)
11. DESIGN BASE SHEAR (PER RMI 2.6.2)	
12. SALES FLOOR & GARDEN CENTER FIXTURES STORAGE AREA RACKS	0.072W (PUBLIC ACCESS AREA) 0.048W (NO PUBLIC ACCESS)

GENERAL NOTES

1.0 GENERAL

1.1 ALL FIXTURES SHALL BE DESIGNED TO MEET ALL BUILDING CODE REQUIREMENTS INCLUDING SECTION 2209.1 OF THE 2018 IBC.

1.2 JOHNSTON BURKHOLDER ASSOCIATES HAS DESIGNED THE BASE ANCHORAGE FOR THE FIXTURES SHOWN ON THIS INSTALLATION DRAWING TO RESIST DESIGN SEISMIC LATERAL FORCES FOR THE BUILDING CODES NOTED IN THE DESIGN LOADS TABLE ON THIS SHEET. 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 3,500 PSI COMPRESSIVE STRENGTH.

2.2 THE SLAB ON GRADE TO BE A MINIMUM OF 4 INCHES THICK (5 1/2 INCHES THICK MINIMUM AT STORAGE AREAS). UNREINFORCED AND PLACED OVER A MINIMUM OF 4 INCHES OF DRAINAGE TELL.

2.3 THE SLAB ON GRADE IS DESIGNED TO BEAR ON A NET SOL. 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 6" AT 120" TALL RACKS AND 4 1/2" AT RACKS LESS THAN 120" (OR EQUAL TO 5% OF THE UPRIGHT FRAME HEIGHT) MINIMUM CLEARANCE BETWEEN OTHER RACK FIXTURES OR ADJACENT BUILDING ELEMENTS PER ASCE 7-16, SECTION 15.5.3.4.

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 INTERNATIONAL 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) AND 1706.12.7 OF THE 2018 INTERNATIONAL 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) AND 1706.12.7 OF THE 2018 INTERNATIONAL BUILDING CODE FOR EACH ANCHOR LISTED IN THE "TYPICAL ANCHOR REPLACEMENT DETAIL" ON SHEET FXS2.

NOTES:

1. SPECIAL INSPECTIONS NOTED ABOVE SHALL BE PROVIDED BY, BUT NOT LIMITED TO, THE OWNER'S CONSTRUCTION TESTING LABORATORY (CTL). REFERENCE SPECIFICATIONS FOR DETAILS.

ANCHORAGE BILL OF MATERIALS

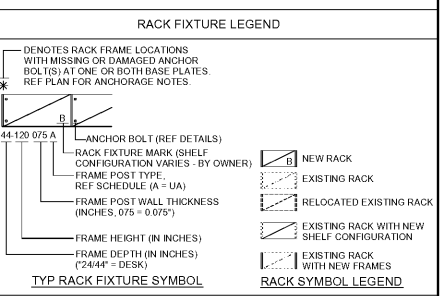
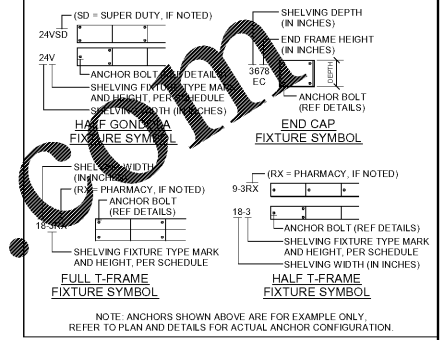
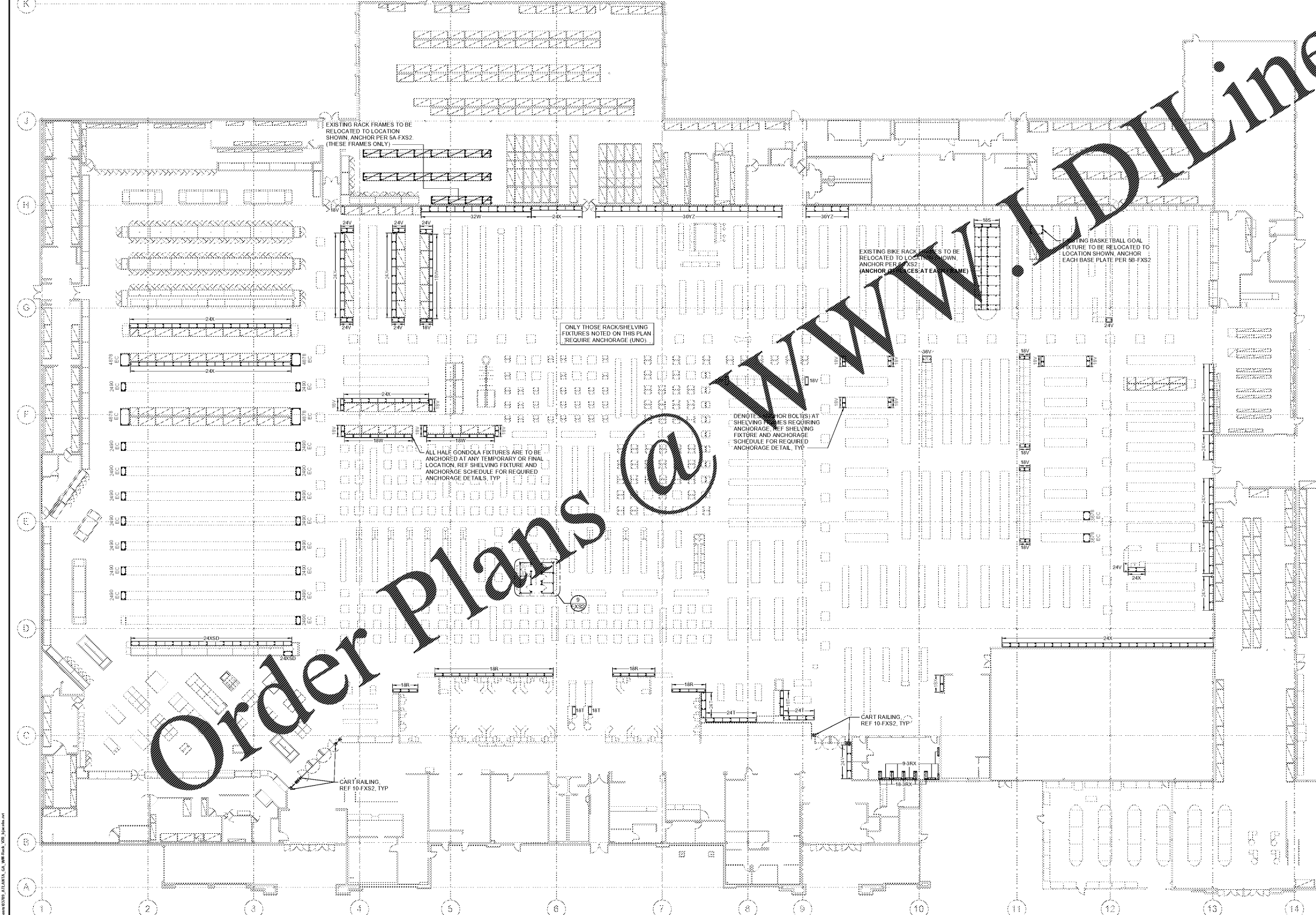
USAGE	MATERIAL TYPE	COUNT
ANCHOR	DEWALT SCREW BOLT - 1/2" DIAMETER x 3' (RPM1411380)	76
ANCHOR	DEWALT SCREW BOLT - 1/4" DIAMETER x 1 1/2" (RPM1411030)	24
ANCHOR	DEWALT SCREW BOLT - 3/8" DIAMETER x 2 1/2" (RPM1411220)	616
STRAP	ANCHOR STRAPS (GONDOLA)	416
WALL ANCHOR	CMU - 3/8" DIA x 9" ITW RED HEAD LARGE DIAMETER TAPCON (MLD13850)	22
WALL ANCHOR	MIL STUD WALLS - 1/4" DIA x 6" LAG SCREWS	113

TEMPORARY ANCHORAGE BILL OF MATERIALS

USAGE	MATERIAL TYPE	COUNT
TEMP ANCHOR	DEWALT SCREW BOLT - 3/8" DIAMETER x 2 1/2" (RPM1411220)	432
TEMP STRAP	ANCHOR STRAPS (GONDOLA)	416

SHELVING FIXTURE & ANCHORAGE SCHEDULE

FIXTURE MARK	FIXTURE DESCRIPTION	FIXTURE HEIGHT	ANCHORAGE DETAIL
9-3RX	PHARMACY HALF T-FRAME	84"	1D-FXS2
18-3RX	PHARMACY FULL T-FRAME	84"	1D-FXS2
18R	HALF GONDOLA	48"	1A-FXS2
18S	HALF GONDOLA	54"	1A-FXS2
18T	HALF GONDOLA	60"	1A-FXS2
18V	HALF GONDOLA	78"	1A-FXS2
18W	HALF GONDOLA	84"	1A-FXS2
18X	HALF GONDOLA	90"	1A-FXS2
24T	HALF GONDOLA	60"	1A-FXS2
24V	HALF GONDOLA	78"	1A-FXS2
24X	HALF GONDOLA	90"	1A-FXS2
24XSD	SUPER DUTY HALF GONDOLA	90"	1C-FXS2
30VZ	HALF GONDOLA	120"	1A-FXS2
32V	HALF GONDOLA	84"	1A-FXS2
36V	HALF GONDOLA	78"	1A-FXS2
2490 EC	END CAP	50"	1B-FXS2
3678 EC	END CAP	78"	1B-FXS2
4678 EC	END CAP	78"	1B-FXS2



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

brr
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STORE NO. 05709
JCB NUMBER: 8945898 | PHOTO: 8945898

2021 SPRB-R

ISSUE BLOCK

NO.	DESCRIPTION	DATE

CHECKED BY: BBB
DRAWN BY: BJJ
PROTO CYCLE: 07/31/20
DOCUMENT DATE: 11/20/20

NOT FOR CONSTRUCTION

FIXTURE ANCHORAGE PLAN AND NOTES

SHEET: **FXS1**