

**DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK**  
**CITY OF PORTLAND**

Please Read  
Application And  
Notes, If Any,  
Attached

**BUILDING INSPECTION**

**PERMIT**

Permit Number: 061808

**PERMIT ISSUED**

JAN - 2 2007

263A-AD01001

**CITY OF PORTLAND**

This is to certify that HERITAGE SPE LLC /TBD

has permission to Tenant fit-up

AT 1032 BRIGHTON AVE

provided that the person or persons who accept this permit shall comply with all of the provisions of the Statutes of the State and of the Ordinances of the City of Portland regulating the construction, maintenance and use of buildings and structures, and of the application on file in this department.

Apply to Public Works for street line and grade if nature of work requires such information.

Classification of inspection must be given and when permission proceeds before this building or part thereof is started or service closed-in. 4 HOUR NOTICES REQUIRED.

A certificate of occupancy must be procured by owner before this building or part thereof is occupied.

**OTHER REQUIRED APPROVALS**

Fire Dept. Craig Carr

Health Dept. \_\_\_\_\_

Appeal Board \_\_\_\_\_

Other \_\_\_\_\_

Department Name

*Michael Chung* 12/31/06  
 Director - Building & Inspection Services

**PENALTY FOR REMOVING THIS CARD**

**City of Portland, Maine - Building or Use Permit Application**

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 06-808	Issue Date: <b>PERMIT ISSUED</b> JAN - 2 2007	CBL: 263A 001001
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Location of Construction: 1032 BRIGHTON AVE	Owner Name: HERITAGE SPE LLC	Owner Address: 535 BOYLSTON ST	Phone:
Business Name:	Contractor Name: TBD	Contractor Address: Portland	Phone:
Lessee/Buyer's Name	Phone:	Permit Type: Change of Use - Commercial	Zone: B-2

Past Use: Vacant Space	Proposed Use: Vacant Space Tenant fit-up <i>Fedex / Skunkos</i>	Permit Fee: \$945.00	Cost of Work: \$85,000.00	CEO District: 3
Proposed Project Description: Tenant fit-up		FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: <i>4</i> Type: <i>3B</i> <i>12/30/06</i>	
		Signature: <i>Greg Carr</i>	Signature: <i>Andy Carr</i>	
PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)				
Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied				
Signature: _____ Date: _____				

Permit Taken By: dmartin	Date Applied For: 12/18/2006	<b>Zoning Approval</b>		
-----------------------------	---------------------------------	------------------------	--	--

<ol style="list-style-type: none"> <li>This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.</li> <li>Building permits do not include plumbing, septic or electrical work.</li> <li>Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work..</li> </ol>	<b>Special Zone or Reviews</b> <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> Date: <i>9/27/06</i>	<b>Zoning Appeal</b> <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date: _____	<b>Historic Preservation</b> <input checked="" type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date: <i>12/18/06</i>
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**CERTIFICATION**

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHONE

**City of Portland, Maine - Building or Use Permit**

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

<b>Permit No:</b> 06-1808	<b>Date Applied For:</b> 12/18/2006	<b>CBL:</b> 263A A001001
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<b>Location of Construction:</b> 1032 BRIGHTON AVE	<b>Owner Name:</b> HERITAGE SPE LLC	<b>Owner Address:</b> 535 BOYLSTON ST	<b>Phone:</b>
<b>Business Name:</b>	<b>Contractor Name:</b> TBD	<b>Contractor Address:</b> Portland	<b>Phone:</b>
<b>Lessee/Buyer's Name</b>	<b>Phone:</b>	<b>Permit Type:</b> Change of Use - Commercial	

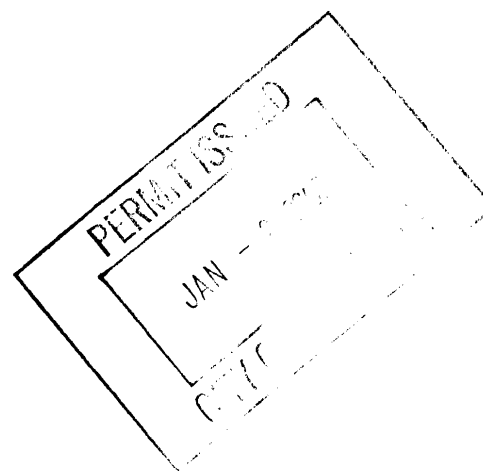
<b>Proposed Use:</b> Vacant Space Tenant fit-up for FED-Ex/Kinkos	<b>Proposed Project Description:</b> Tenant fit-up - Fed-Ex/Kinkos
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**Dept:** Zoning      **Status:** Approved with Conditions      **Reviewer:** Marge Schmuckal      **Approval Date:** 12/21/2006**Note:** **Ok to Issue:** 

- 1) This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work.
- 2) Separate permits shall be required for any new signage.

**Dept:** Building      **Status:** Approved      **Reviewer:** Mike Nugent      **Approval Date:** 01/02/2007**Note:** **Ok to Issue:** **Dept:** Fire      **Status:** Approved with Conditions      **Reviewer:** Cptn Greg Cass      **Approval Date:** 12/22/2006**Note:** **Ok to Issue:** 

- 1) All construction shall comply with NFPA 101





## FAX TRANSMITTAL

**ATTENTION:** Donna Martin **FROM:** CASCO  
**COMPANY:** City of Portland, Maine **DATE:** December 21, 2006  
**FAX NUMBER:** (207) 874-8716 **# PAGES:** Four (Incl. Cover)  
**RE:** FedEx Kinko's  
1036 Brighton  
Suite P206  
Portland, Maine

**COMMENTS:**

Here are the Certificate of Design forms that we discussed this morning.

CASCO  
Patrick Moore

*Patrick J. Moore*

<b>ORIGINAL TO:</b>	
FILE 907113 Out	
ADDRESSEE	
AUTHOR	

<b>COPIES TO:</b>	
cc: List	

<b>VIA:</b>	
MAIL	
FAX	
OTHER	

THIS FACSIMILE TRANSMISSION IS INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY TO WHICH IT IS ADDRESSED AND MAY CONTAIN INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL, AND EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW. If the reader of this transmission is not the intended recipient, or the employee or agent responsible to deliver it to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return the original transmission to us at the above address via the U.S. Postal Service.

W:\KINKOS\907113 Westbrook ME (Portland)\Bid\_Permit\CityFax122106.doc  
 10877 Watson Road  
 St. Louis, Missouri 63127  
 Tel: (314) 821-1100 • Fax: (314) 821-4162  
 Costa Mesa, California      Dallas, Texas      Atlanta, Georgia      Edison, New Jersey





CITY OF PORTLAND  
BUILDING CODE CERTIFICATE  
389 Congress St., Room 315  
Portland, Maine 04101

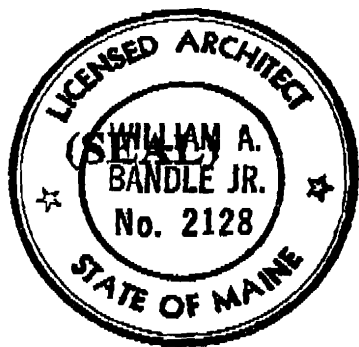
ACCESSIBILITY CERTIFICATE

Designer: BOB BORN

Address of Project: 1036 BRIGHTON, SUITE 206, PORTLAND, ME

Nature of Project: NEW FEDEX KINKO'S COPYING FACILITY  
IN NEW TENANT SPACE.

The technical submissions covering the proposed construction work as described above have been designed in compliance with applicable referenced standards found in the Maine Human Rights Law and Federal Americans with Disability Act. Residential Buildings with 4 units or more must conform to the Federal Fair Housing Accessibility Standards. Please provide proof of compliance if applicable.



Signature: William A. Bandle Jr.

Title: ARCHITECT OF RECORD

Firm: CASCO

Address: 10277 Watson Rd

St. Louis, MO. 63127

Phone: (314) 821-1100

389 Congress Street • Portland, Maine 04101 • (207) 874-8703 • FACSIMILE (207) 874-8716 • TTY (207) 874-8936



CITY OF PORTLAND  
 BUILDING CODE CERTIFICATE  
 389 Congress St., Room 315  
 Portland, Maine 04101

TO: Inspector of Buildings City of Portland, Maine  
 Department of Planning & Development  
 Division of Inspections Services

FROM: PATRICK MOORE

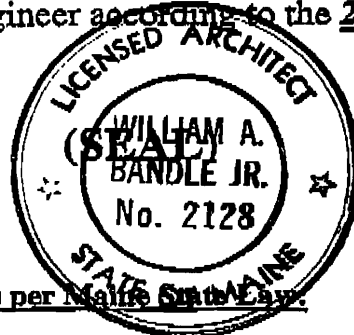
RE: Certificate of Design

DATE: 12/21/06

These plans and / or specifications covering construction work on:

NEW REDEX KINKOS IN NEW TENANT SPACE

Have been designed and drawn up by the undersigned, a Maine registered Architect /  
 Engineer according to the 2003 International Building Code and local amendments.



As per Maine State Law:

\$50,000.00 or more in new construction, repair  
 expansion, addition, or modification for  
 Building or Structures, shall be prepared by a  
 registered design Professional.

Signature: William A. Bandle Jr.

Title: ARCHITECT OF RECORD

Firm: CASCO

Address: 10777 Watson Rd, St. Louis, MO  
63127

389 Congress Street • Portland, Maine 04101 • (207) 874-8703 • FACSIMILE (207) 874-8716 • TTY (207) 874-8936

PAGE 2/4

DEC. 20 '06 (THU) 15:09 PORTLAND MAINE INSPECTION & ZONING

DEC. 21 '06 (FRI) 12:24 COMMUNICATION No: 42 PAGE. 3

FROM DESIGNER: BOB BOHN  
 DATE: 12/21/06  
 Job Name: FEDEX KINKO'S  
 Address of Construction: 1036 BRIGHTON, SUITE P206, PORTLAND, ME

**2003 International Building Code**

Construction project was designed to the building code criteria listed below:

Building Code & Year IBC 2003 Use Group Classification (s) M-MERCANTILE

Type of Construction III-B

Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2003 IRC YES

Is the Structure mixed use? ALL RETAIL If yes, separated or non separated or non separated (section 302.3) SEPARATED

Supervisory alarm System? YES Geotechnical/Soils report required? (See Section 1802.2) NO; FEDEX KINKO'S IS A TENANT

STRUCTURAL DESIGN CALCULATIONS NO STRUCTURAL SCOPE

Submitted for all structural members (106.1 - 106.11)

**DESIGN LOADS ON CONSTRUCTION DOCUMENTS**  
(1603)

Uniformly distributed floor live loads (7603.11, 1807)	Live load reduction
Floor Area Use	Roof live loads (1603.1.2, 1607.11)
	Roof snow loads (1603.7.3, 1608)
	Ground snow load, $P_g$ (1608.2)
	If $P_g > 10$ psf, flat-roof snow load $p_f$
	If $P_g > 10$ psf, snow exposure factor, $C_e$
	If $P_g > 10$ psf, snow load importance factor, $I_s$
	Roof thermal factor, $C_t$ (1608.4)
	Sloped roof snowload, $p_s$ (1608.4)
	Seismic design category (1616.3)
	Basic seismic force resisting system (Table 1617.6.2)
	Response modification coefficient, $R$ , and deflection amplification factor, $C_d$ (Table 1617.6.2)
	Analysis procedure (1616.6, 1617.5)
	Design base shear (1617.4, 1617.5.1)

Wind loads (1603.1.4, 1609) EXISTING BUILDING SHELL

Design option utilized (1609.1.1, 1609.6)	
Basic wind speed (1809.3)	
Building category and wind importance Factor, $I_w$ (Table 1604.5, 1609.5)	
Wind exposure category (1609.4)	
Internal pressure coefficient (ASCE 7)	
Component and cladding pressures (1609.1.1, 1609.6.2.2)	
Main force wind pressures (7603.1.1, 1609.6.2.1)	

Flood loads (1803.1.6, 1612) N/A

	Flood Hazard area (1612.3)
	Elevation of structure

Earth design data (1603.1.5, 1614-1623) EXISTING BUILDING SHELL

Design option utilized (1614.1)	
Seismic use group ("Category") (Table 1604.5, 1616.2)	
Spectral response coefficients, $S_{DS}$ & $S_{D1}$ (1615.1)	
Site class (1615.1.5)	

Other loads

	Concentrated loads (1607.4)
<u>SLABS ON GRADE</u>	Partition loads (1607.5)
	Misc. loads (Table 1607.8, 1607.6.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404)



# General Building Permit Application

If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

Location/Address of Construction: <u>1036 BRIGHTON, SUITE P206, PORTLAND, ME 04101</u>		
Total Square Footage of Proposed Structure <u>1,605 SF TENANT SPACE IN A 10,000 SF BUILDING</u>		Square Footage of Lot
Tax Assessor's Chart, Block & Lot Chart#      Block#      Lot# <u>263 AA 001</u>	Owner: <u>PACKARD DEVELOPMENT 1 WELLS AVENUE NEWTON, MAINE 02454</u>	Telephone: <u>(617) 965-6634</u>
Lessee/Buyer's Name (If Applicable)	Applicant name, address & telephone: <u>FED EX KINKO'S THREE GALLERIA TOWER 13155 NCEL ROAD SUITE 1600 DALLAS, TX 75240</u>	Cost Of Work: \$ <u>85,000</u> Fee: \$ <u>945.00</u> C of O Fee: \$ _____
Current Specific use: <u>VACANT</u>		
If vacant, what was the previous use? <u>N/A ; EXISTING BUILDING</u>		
Proposed Specific use: <u>FED EX KINKO'S COPY FACILITY</u>		
Project description: <u>CONSTRUCT TENANT IMPROVEMENT IN NEW VACANT TENANT SPACE ; CONSTRUCT NEW HVAC DUCTWORK &amp; CONNECT TO EXISTING ROOF TOP UNIT. INSTALL SUSPENDED ACCESSITIAL CEILING w/ LIGHT FIXTURES. CONSTRUCT TOILET ROOM WALLS &amp; PLUMBING FIXTURES, NEW ELECT. RECEPTACLES.</u>		
Contractor's name, address & telephone: <u>TO BE DETERMINED</u>		
Who should we contact when the permit is ready: <u>PATRICK L. MOORE</u>		
Mailing address: <u>CASC0 10877 WATSON ROAD ST. LOUIS, MO 63127</u>	Phone: <u>(800) 666-5025 x 329</u> Email: <u>pat.moore@cascocorp.com</u> Fax: <u>(314) 821-4162</u>	

Please submit all of the information outlined in the Commercial Application Code Book. Failure to do so will result in the automatic denial of your permit.

In order to be sure the City fully understands the full scope of the project, the Planning and Development Department requests that you request additional information prior to the issuance of a permit. For further information visit us on-line at [www.portlandmaine.gov](http://www.portlandmaine.gov), stop by the Building Inspections office, room 315 City Hall or call 874-8703.



I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

Signature of applicant: Patrick L Moore      DEPT. 12/12/06

This is not a permit; you may not commence ANY work until the permit is issued.



December 14, 2006  
Via Air Courier

City of Portland  
Planning and Development Department  
389 Congress Street  
Portland, ME 04101  
Attn: Mr. Tom Markley/Plan Reviewer

Re: **New FedEx Kinko's**  
In the Existing Building Located at  
1036 Brighton  
Portland, ME 04101  
Suite #P206  
**Building Permit Submission**

Dear Mr. Markley,

Our client, FedEx Kinko's will be constructing a tenant improvement within the building located at the address referenced above. Enclosed please find our Building Permit submission consisting of the following documents:

- General Building Permit Application
- 1 full size set of signed/sealed drawings
- One 11" x 17" copy of the plans
- One CD of the drawings and specifications in pdf format
- 1 copy of specifications (the electrical, mechanical, and electrical specifications are on the drawings)
- Remittance for a Building Permit in the amount of \$945.00 based on a construction value of \$85,000

We understand that the plan check fee will be assessed by the City and incorporated into the Building Permit fee. If you are in need of additional documents to perform your review, please contact this office.

Respectfully,  
CASCO

A handwritten signature in black ink that reads 'Patrick L. Moore'.

Patrick L. Moore, P.E.

Cc: Barbara Pruett/FedEx Kinko's-Dallas, TX  
Steve Pearson/FedEx Kinko's-Dallas, TX  
Jim Corsano/Trammell Crow @ PO Box 476, 19 Shaker Drive, Monument Beach, Massachusetts 02553-0476  
CMS, RGB, ACT  
File 907113 Permit  
CityLtr121406.doc

# BUILDING CODE ANALYSIS

## SUMMARY OF THE PROJECT

THIS REPORT WAS PREPARED BY THE ARCHITECTURE PERTAINING TO THE TENANT REQUIREMENTS FOR A NEW FEDEX KINKO'S TO BE LOCATED AT 1036 BRIGHTON SUITE P208, PORTLAND, ME 04101

THIS CODE REVIEW IS BASED ON THE FINAL SPACE PLAN, DATED 11/21/08

## BUILDING DEPARTMENT CONTACT

PLANNING & DEVELOPMENT DEPARTMENT  
389 CONGRESS STREET  
PORTLAND, ME 04101

CONTACT: TOM MARKLEY  
TEL. 207.674.6706

## APPLICABLE BUILDING CODES

BUILDING CODE	APPLICABLE	APPLICABLE	APPLICABLE
2003 INTERNATIONAL BUILDING CODE			NONE
2003 NFPA			NONE
2003 STATE OF MAINE PLUMBING CODE			NONE
2003 INTERNATIONAL MECHANICAL CODE			NONE
2003 NATIONAL ELECTRICAL CODE			NONE
2003 INTERNATIONAL BUILDING CODE			NONE
STATE			
OTHER			

## ZONING CLASSIFICATION

ZONING CLASSIFICATION

## OCCUPANCY CLASSIFICATION

GROUP M - MERCANTILE IBC 304.1

## CONSTRUCTION TYPE

TYPE III-B IBC T. 601

## SEISMIC DESIGN CATEGORY

CATEGORY C IBC 1618.3

## AUTOMATIC SPRINKLER SYSTEM

THIS BUILDING IS SPRINKLERED. IBC 903.2

## FIRE ALARM SYSTEM

FIRE ALARM PER NFPA IS REQUIRED. IBC 907.2

THE LANDLORD WILL INSTALL A FIRE ALARM SYSTEM TO THE SPACE FOR TENANT INSTALLATION OF ALL DEVICES PROVIDED TO MASTER SYSTEM MUST BE MADE BY LANDLORD'S FIRE ALARM CONTRACTOR

## CALCULATED OCCUPANT LOAD

FLOOR NUMBER	USE	OCCUPANT CLASS	AREA SQ. FT.	NO. OF PERSONS	NUMBER PERSONS
103	RETAIL	M	447	35	35
102	RECEPTION	B	447	100	6
103	TOILET	-	75	100	1
TOTAL					36

## EXIT CAPACITY

EXIT CAPACITY PER IBC  
EGRESS WIDTH PER PERSON = 0.2'  
54 OCC. x 0.2 INCHED PER PERSON = 10.8"  
CALCULATED EXIT CAPACITY PROVIDED 48"

## MINIMUM NUMBER OF EXITS

MINIMUM NUMBER OF EXITS REQUIRED = 2 IBC T. 1018.1  
1-500 OCCUPANTS  
NUMBER OF EXITS PROVIDED = 1

## TRAVEL DISTANCE & DEAD END LENGTH

MAX DISTANCE TO EXIT = 200' UNSPRINKLERED IBC T. 1016.1  
MAX DEAD END LENGTH = 20' IBC 1016.1

## MINIMUM NUMBER OF PLUMBING FIXTURES

SECTION 403.2 OF THE 2004 IBC PER A AMENDMENTS TO THE PLUMBING CODE STATE: SEPARATE TOILET FACILITIES SHALL NOT BE REQUIRED IN MERCANTILE STRUCTURES OR TENANT SPACES OF MERCANTILE USE PROVIDED WITH A TOTAL OCCUPANT LOAD INCLUDING BOTH EMPLOYEES AND CUSTOMERS OF 50 OR LESS. THE OCCUPANT LOAD IS 36. THEREFORE, ONE TOILET ROOM IS REQUIRED.

## FIRE RESISTIVE REQUIREMENTS

TENANT SEPARATION 0 HR IBC 302.3.1

# FedEx Kinko's

## Office and Print Center PORTLAND, ME 1,605 SF

### PROJECT DIRECTORY

#### TENANT

FEDEX KINKO'S  
3 GALLERIA TOWER  
13155 NOEL RD, STE 1600  
DALLAS, TX 75240  
TEL. 214.550.7000  
FACSIMILE: 214.550.7001

#### LANDLORD CONTACT

PACKARD DEVELOPMENT  
1 WELLS AVENUE  
NEWTON, MAINE 02459  
TEL. 617.965.6834  
FACSIMILE: 617.965.2519  
EMAIL: jrutberg@packarddevelopment.com  
CONTACT: JERRY RUTBERG

#### DESIGN PROJ. MGR.

FEDEX KINKO'S  
3 GALLERIA TOWER  
13155 NOEL RD, STE 1600  
DALLAS, TX 75240  
TEL. 214.550.7287  
FACSIMILE: 214.550.7495  
EMAIL: barbara.pruett@fedexkinkos.com  
CONTACT: BARBARA PRUETT  
FEDEX KINKO'S DPM

#### CONST. PROJ. MGR.

FEDEX KINKO'S  
3 GALLERIA TOWER  
13155 NOEL RD, STE 1600  
DALLAS, TX 75240  
TEL. 214.550.7000  
FACSIMILE: 214.550.7143  
EMAIL: steven.pearson@fedexkinkos.com  
CONTACT: STEVEN PEARSON  
FEDEX KINKO'S CPM

#### PROJ. MGR.

TRAMMELL CF  
PO BOX 476  
19 SHAKER DR  
MASSACHUSETTS  
TEL. 508.743.7  
EMAIL: jcorser  
CONTACT: JIM

#### ARCHITECT

10877 WATSON  
ST. LOUIS, MO  
TEL. 314.821.1  
FACSIMILE: 31  
CONTACT: CA

PLEASE NOTE: THESE DESIGN DIRECTIVES ARE SUBJECT TO CHANGE WITHOUT NOTICE. ANY CHANGES WILL BE MADE TO THESE DESIGN DIRECTIVES AS NECESSARY.

### DESIGN DIRECTIVES

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### RESPONSIBILITY SCHEDULE

	FURNISHED BY:	NEW & RELO	INSTALLED BY:	NEW & RELO	COMMENT
HVAC UNITS	LL/FXK		LL/FXK		
HVAC CURBS	LL/FXK		LL/FXK		
EXTERIOR SIGNS	FXK		FXK		ELECTRICAL
EXTERIOR SIGNS ELECTRICAL & CONNECTION	GC		GC		
"COMING SOON" BANNER	FXK		GC		
8' STEPLADDER	GC		-		RE. NOTE #

#### NOTES

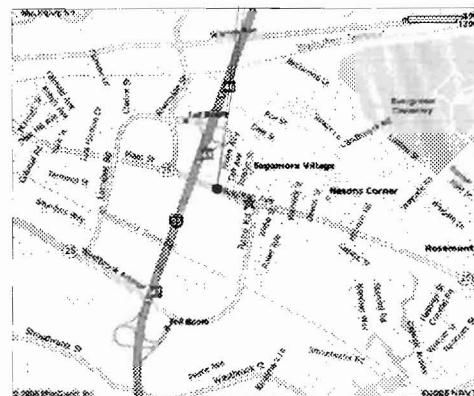
- WORK SHOWN AS FEDEXKINKO'S FURNISHED/INSTALLED MAY BE WORK FOR LANDLORD OR FEDEXKINKO'S VENDOR. GENERAL CONTRACTOR SHALL COORDINATE IF NECESSARY.
- GC SHALL COORDINATE ALL VENDOR SUPPLIED ITEMS, PER SCHEDULE INC.
- REFERENCE SHEETS A-1.0, A-2.0, A-3.0, A-3.1, A-3.2, & A-3.3 FOR ADDITIONAL INFORMATION.
- G.C. TO FURNISH 8' FIBERGLASS STEPLADDER TYPE 1 A (300 LBS WEIGHT CAPACITY) MANUFACTURER WERNER OR EQUAL.

### VICINITY MAP

FedEx Kinko's  
Office and Print Center



PLAN NORTH

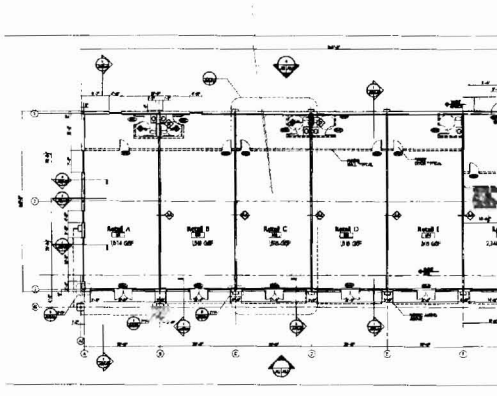


### KEY PLAN

FedEx Kinko's  
Office and Print Center



PLAN NORTH



SPECIAL INSPECTION SCHEDULE	GENERAL NOTES	ABBF
<p>THE WORK OF THIS PROJECT IS SUBJECT TO INSPECTIONS BY THIRD PARTY INSPECTORS HIRED BY FEDEX KINKO'S AS REQUIRED BY THE JURISDICTION. THE WORK INDICATED SHALL REMAIN OPEN AND ACCESSIBLE FOR INSPECTION PURPOSES UNTIL APPROVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE FEDEX KINKO'S CM WHEN WORK IS READY FOR INSPECTION IN SUFFICIENT TIME TO ALLOW FOR THE INSPECTION.</p> <p>FOLLOWING ARE THE SPECIAL INSPECTIONS.</p> <p><b>FIRE RESISTANT PENETRATIONS &amp; FIRE STOPPING</b> PROTECTION OF JOINTS AND PENETRATIONS IN FIRE RATED ASSEMBLIES SHALL NOT BE CONCEALED FROM VIEW UNTIL INSPECTED AND APPROVED.</p> <p><b>FINAL VENTILATION/AIR CONDITIONING</b> THE FINAL VENTILATION/ AIR CONDITIONING INSPECTION SHALL BE MADE AFTER THE EQUIPMENT IS OPERATIONAL AND ALL CEILINGS, VENTS AND GRILLS ARE INSTALLED.</p> <p><b>FINAL INSPECTION</b> THE FINAL INSPECTION SHALL BE MADE AFTER THE WORK INDICATED IN THE CONTRACT DOCUMENTS AND OTHERWISE REQUIRED IS COMPLETE.</p> <p><b>OTHER INSPECTIONS</b> OTHER INSPECTIONS AS REQUIRED BY JURISDICTION AND COORDINATED BY G.C.</p> <p>ANY PORTIONS OF THE WORK THAT IS NOT APPROVED SHALL BE CORRECTED AND SUCH PORTION SHALL NOT BE COVERED OR CONCEALED UNTIL APPROVED.</p>	<p>1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO STARTING OF WORK AND SHALL NOTIFY, IN WRITING, FEDEX KINKO'S CONSTRUCTION MANAGER OF ANY DISCREPANCIES.</p> <p>2. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER DRAWING SCALE.</p> <p>3. ALL DETAILS SHALL BE CONSIDERED TYPICAL AT SIMILAR CONDITIONS. DETAILS MARKED "NOT USED" INDICATES ENTIRE DETAIL NOT USED AND IS TO BE OMITTED.</p> <p>4. CONTRACTOR AND EACH SUBCONTRACTOR SHALL BE RESPONSIBLE FOR HAVING COMPLETE KNOWLEDGE OF ALL CONSTRUCTION DOCUMENTS AND THE RELEVANCE TO THE WORK. FAILURE TO BE ACQUAINTED WITH THIS KNOWLEDGE DOES NOT RELIEVE RESPONSIBILITY FOR PERFORMING ALL WORK PROPERLY. ADDITIONAL COMPENSATION SHALL NOT BE ALLOWED DUE TO THE FAILURE TO BECOME FAMILIAR WITH THE ENTIRE CONSTRUCTION DOCUMENT PACKAGE.</p> <p>5. FIRE SPRINKLER SYSTEM AND FIRE ALARM SYSTEM ARE DESIGN BUILD BY THE CONTRACTOR. CONTRACTOR SHALL SUBMIT FIRE SPRINKLER &amp; FIRE ALARM DRAWINGS TO THE JURISDICTION (AND LANDLORD AS REQUIRED) AND OBTAIN APPROVAL PRIOR TO BEGINNING ANY WORK ON THE FIRE SPRINKLER OR ALARM SYSTEM. THE FIRE SPRINKLER AND ALARM WORK SHALL BE PERFORMED UNDER A SEPARATE PERMIT WHERE APPLICABLE.</p> <p>6. ALL FLOORING ALONG A MEANS OF EGRESS PATH OF TRAVEL SHALL BE SLIP RESISTANT IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.</p> <p>7. COORDINATE ALL ROOF PENETRATIONS WITH FEDEX KINKO'S AND THE LANDLORD. MAKE ALL ROOF PENETRATIONS IN ACCORDANCE WITH LANDLORD REQUIREMENTS TO MAINTAIN VALIDITY OF ALL ROOFING WARRANTIES.</p> <p>8. CONTRACTOR SHALL INSPECT ALL EXISTING FIRE PROOFING OF STRUCTURAL ELEMENTS, DEMISING WALLS, AND FLOOR CEILING ASSEMBLIES WHICH ARE REQUIRED TO BE FIRE PROTECTED BY GOVERNING CODES. CONTRACTOR SHALL PATCH AND REPAIR ALL DAMAGED FIREPROOFING AND SHALL REPLACE ALL MISSING FIREPROOFING. CONTRACTOR SHALL MAINTAIN THE EXISTING FIRE RATINGS OF ALL ELEMENTS AND SHALL PATCH AND REPAIR ANY DAMAGED OR REMOVED ELEMENTS AS REQUIRED TO MAINTAIN ALL FIRE RATINGS.</p> <p>9. FEDEX KINKO'S HAS FILED FOR AND OBTAINED APPROVAL OF THE BUILDING PERMIT. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETING ANY OUTSTANDING BUILDING PERMIT ITEMS AND PICKING UP THE PERMIT.</p> <p>10. CONTRACTOR SHALL BE RESPONSIBLE FOR APPLYING FOR AND OBTAINING ALL TRADE PERMITS AND OTHER PERMITS AS MAY BE REQUIRED BY THE JURISDICTIONS HAVING AUTHORITY OVER THE PROJECT.</p> <p>11. CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING ANY REVISIONS TO THE APPROVED PERMIT DOCUMENTS AND PROCESSING THE APPROVAL OF THE REVISED DOCUMENTS WITH THE JURISDICTIONS HAVING AUTHORITY.</p> <p>12. CONTRACTOR SHALL VERIFY THAT ALL EXISTING DEMISING WALLS EXTEND TO THE BOTTOM OF THE FLOOR STRUCTURE ABOVE AND SHALL NOTIFY FEDEX KINKO'S OF ANY DEFICITS IDENTIFIED.</p> <p>13. CONTRACTOR SHALL COORDINATE ALL WORK TO BE PROVIDED BY FEDEX KINKO'S INCLUDING WORK THAT IS PART OF THE LANDLORD'S RESPONSIBILITY.</p> <p>14. CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING SUBSTRATES TO RECEIVE NEW FINISHES AND ALL EXISTING SURFACES AND FINISHES AS NECESSARY FOR A COMPLETE AND PROPER INSTALLATION.</p> <p>15. CONTRACTOR SHALL ENGAGE A STRUCTURAL ENGINEER TO REVIEW, DESIGN, AND SEAL ALL CHANGES NECESSARY TO THE BUILDING STRUCTURE FOR THE INSTALLATION OF OR REVISION OF ALL CONTRACTOR INSTALLED MECHANICAL UNITS OR OTHER CONTRACTOR INSTALLED ELEMENTS SUPPORTED BY OR ANCHORED TO THE EXISTING STRUCTURE. THE ENGINEER SHALL SUBSTANTIATE THE DESIGN MODIFICATIONS NECESSARY TO MAINTAIN THE INTEGRITY OF THE EXISTING BUILDING STRUCTURE.</p> <p>16. IN THE EVENT THE CONTRACTOR DISCOVERS, AT ANY TIME DURING DEMOLITION, CONSTRUCTION, AND/OR REMODELING OPERATIONS, EXISTING CONDITIONS THAT COULD INCLUDE THE PRESENCE OF MOLD AND/OR MILDEW, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE, FEDEX KINKO'S CONSTRUCTION MANAGER, AND THE ARCHITECT OF RECORD, IN WRITING OF THE CONCERNS AND/OR SUSPICIONS.</p>	<p>AFF ADA ADDL AMP BD BLKG CAB CLG CLR COL CONTR EC ELEC EQ ER EWC FE FEC FHC FLUOR FXK GA GC GYP BD HM HDWE HT HVAC MAX MDF MIN MFR NKC NTS OC OPG PART PR PREFAB REF REQD SS STD UCN V VCT VIF</p> <p>ABOV AMEF ADDI AMPE BOAR BLOC CABN CELI CLEA COLU CONT EXIST ELEC EQUA EXIST ELEC FIRE FIRE FLWO FEDE GAUG GENE GYPSI HOLLC HARD HEIGH HEAT MEDL MINIM MANU NOT I NOT T ON CE OPENI PARTI PAIR PREFA REFEF REQUI STAINI STRAI UNLES VOLTE VINYL VERIF</p>

# FINISH SCHEDULE (Revised 10/17/06)

SYMBOL	MARK	MATERIAL	MANUFACTURER	MODEL # DESIGN #	STYLE	COLOR	DESCRIPTION	FURNISHED BY:	NEW & RELO	INSTALLED BY:	NEW & RELO
BASE	B-8	Vinyl Topcoat	Armstrong	80	4"	Jet Black	4" Wall Base	GC	GC	GC	GC
CARPET	CP-7	Entry Mat	Milliken	P/4043	Cleansweep	Charcoal		FXK	GC	FXK	GC
	CP-8	Vestibule System	Milliken	P/4024-4022	Brush-Off	Charcoal	Flows of vinyl & tufting	FXK	GC	FXK	GC
	CP-16	Carpet	Milliken	6419	FedEx Kinko's - Aubergine Harvest	14	Carpet Tile - Ref. Note 6 Below	FXK	GC	FXK	GC
CEILING	CT-1	Acoustical Ceiling Tile	Armstrong	#764	Cortega Tegula	White	2'X2' CEILING TILE	GC	GC	GC	GC
	CT-2	5/8" Gyp. Board Ceiling	(see Specifications)		NA	FT-22		GC	GC	GC	GC
	CT-3	Acoustical Ceiling Tile	Armstrong	#769	Cortega	White	2'X4' CEILING TILE. RE: NOTE #8	GC	GC	GC	GC
CORNER GUARDS	CG-6	Vinyl Corner Guard	C/S Group	LG-150	CLEAR	CLEAR	1-1/2" Low Profile, mount top @ 48" A.F.F. TYP. RE: Note #9	GC	GC	GC	GC
HARD FLOORING	FL-7	Exposed Concrete	By subcontractor	NA	NA	Natural	Apply recommended sealer	GC	GC	GC	GC
	FL-11	Sheet Vinyl	Armstrong	61791	"Transitions"	Mid-Gray	Sheet Vinyl (Breakrooms and Restrooms)	GC	GC	GC	GC
	FL-12	Vinyl Composition Tile	Armstrong	51908	Standard Excelon Imperial Texture	Pewter	12" x 12" - 1/8" (Breakrooms and Restrooms)	GC	GC	GC	GC
PAINT	PT-22	Paint	Sherwin Williams	Ref. color name	Pro Mar 200 LTX	FXK-1 (WALL) - "Light Grey"	Egg Shell Latex Enamel	GC	GC	GC	GC
	PT-23	Paint	Sherwin Williams	Ref. color name	Industrial Enamel Coatings	FXK-2 (DOORS & TRIM) - "Warm Grey"	Gloss Enamel (Doors & Trim)	GC	GC	GC	GC
	PT-24	Paint	Sherwin Williams	Ref. color name	Pro Mar 200 LTX	FXK-3 (LOGO WALL) - "White"	Egg Shell Latex Enamel (FedEx logo wall)	GC	GC	GC	GC
	PT-25	Paint	Sherwin Williams	Ref. color name	Pro Mar 200 LTX	FXK-4 (Brand Wall) - "Purple"	Semi-Gloss Enamel (Make It, Print It, Pack It, Ship It wall)	GC	GC	GC	GC
WALL	WC-7	Fiber Reinfr. Polyester	Marlite	P-100	Textured	White	Wainscot w/ Plastic Trim To Match FRP	GC	GC	GC	GC
WINDOW TREATMENTS	WT-6	Mini Blinds	Hunter Douglas		Decor	316 Silver Cloud	1" Mini Blind (Interior Office Windows)	FXK	FXK	FXK	FXK
	WT-12	Roller Shade Blackout	Casco Window & Shading	Roller Shade	Dark Room Opaque 100	Fawn	Video Conference Room (Exterior Windows)	FXK	FXK	FXK	FXK
	WT-13	Solar Shades	Casco	Roller Shade	Basket Weave 100	BW-101 White/Berge	Vinyl Roller Shade (Store Front - Extreme Sun)	FXK	FXK	FXK	FXK
	WT-15	Window Tint	OP Films - Lumar	NFM-P02	Frosted Crystal	Transparent Frosted	Vinyl Film (Lower Store Front) As Required by Landlord	GC	GC	GC	GC
	WT-16	Window Tint	OP Films - Lumar	NFM-M-P08	Black Opaque	Black	Vinyl Film (Only As Required by Landlord for black out)	GC	GC	GC	GC
	WT-17	Window Tint	OP Films - Lumar	NFM-W-P06	White Opaque	White	Vinyl Film (Only As Required by Landlord for black out)	GC	GC	GC	GC

## SPECIALTY FINISHES

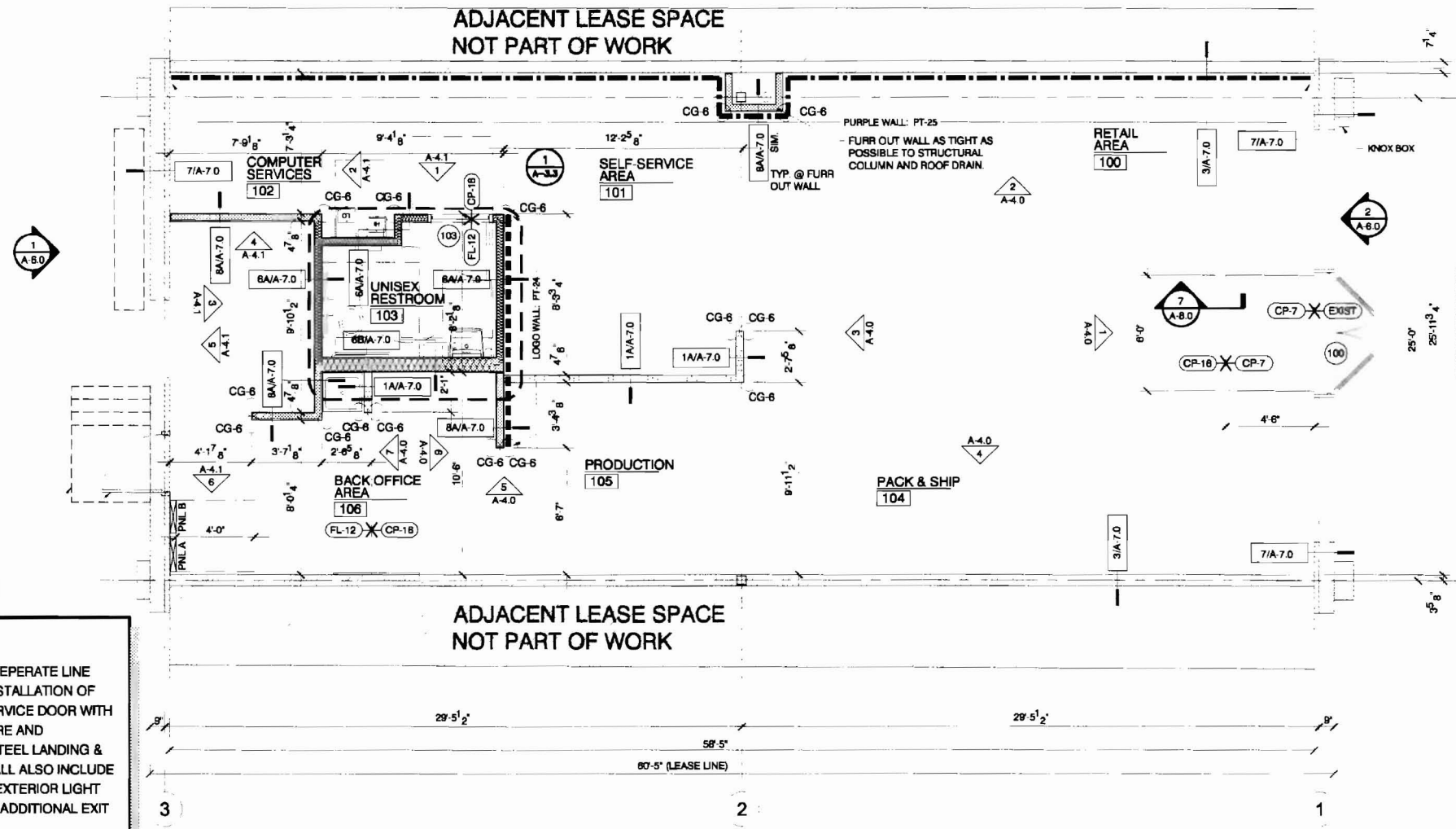
SYMBOL DESCRIPTION

----- LOGO WALL: PT-24

----- PURPLE WALL: PT-25

### NOTES:

1. REFERENCE INTERIOR ELEVATIONS ON A-4.0 SERIES FOR WALL AND BASE FINISHES.
2. REFERENCE REFLECTED CEILING PLAN ON A-2.0 FOR CEILING FINISHES, AND HEIGHTS AFF.
3. MOVE AND REINSTALL EXISTING EQUIPMENT AND FIXTURES FOR NEW FLOORING INSTALLATION TO BE FURNISHED BY FEDEX KINKOS AND INSTALLED BY GC. EQUIPMENT AND FIXTURES TO REMAIN ON PREMISES. EQUIPMENT NEEDS TO BE SHUT DOWN AND UNPLUGGED BY FXK TEAM MEMBERS PRIOR TO GC MOVING EQUIPMENT.
4. FXK PAINT COLORS ARE LISTED UNDER THE SHERWIN WILLIAMS NATIONAL ACCOUNT DATABASE.
5. APPLY ORANGE PEEL TEXTURE ROLLED WITH PAINT ROLLER FOR WALL WITH PT-25.
6. INSTALL CARPET USING 1/4 TURN APPLICATION. USE MILLIKEN CARPET ADHESIVE PROVIDED 100Y RELEASABLE ADHESIVE, 4LB. PAIL.
7. FOR SOME MINOR REMODELS, FLOOR CARPET REPAIRS MAY BE FURNISHED BY GC. CONTACT FXK CONSTRUCTION MANAGER FOR CLARIFICATION.
8. USE PRELUDE WHITE GRID XL 15/16". GC CONTACT BETH RINEHART WITH ARMSTRONG AT 1-800-442-4212 OPTION #1 TO OBTAIN FXK NATIONAL ACCOUNT PRICING THROUGH LOCAL DISTRIBUTOR.



### NOTE:

G.C. TO PROVIDE SEPARATE LINE ITEM COST FOR INSTALLATION OF 3'-0" EXTERIOR SERVICE DOOR WITH FRAME & HARDWARE AND PREFABRICATED STEEL LANDING & STAIRS. COST SHALL ALSO INCLUDE INSTALLATION OF EXTERIOR LIGHT ABOVE DOOR AND ADDITIONAL EXIT SIGN AT INTERIOR.

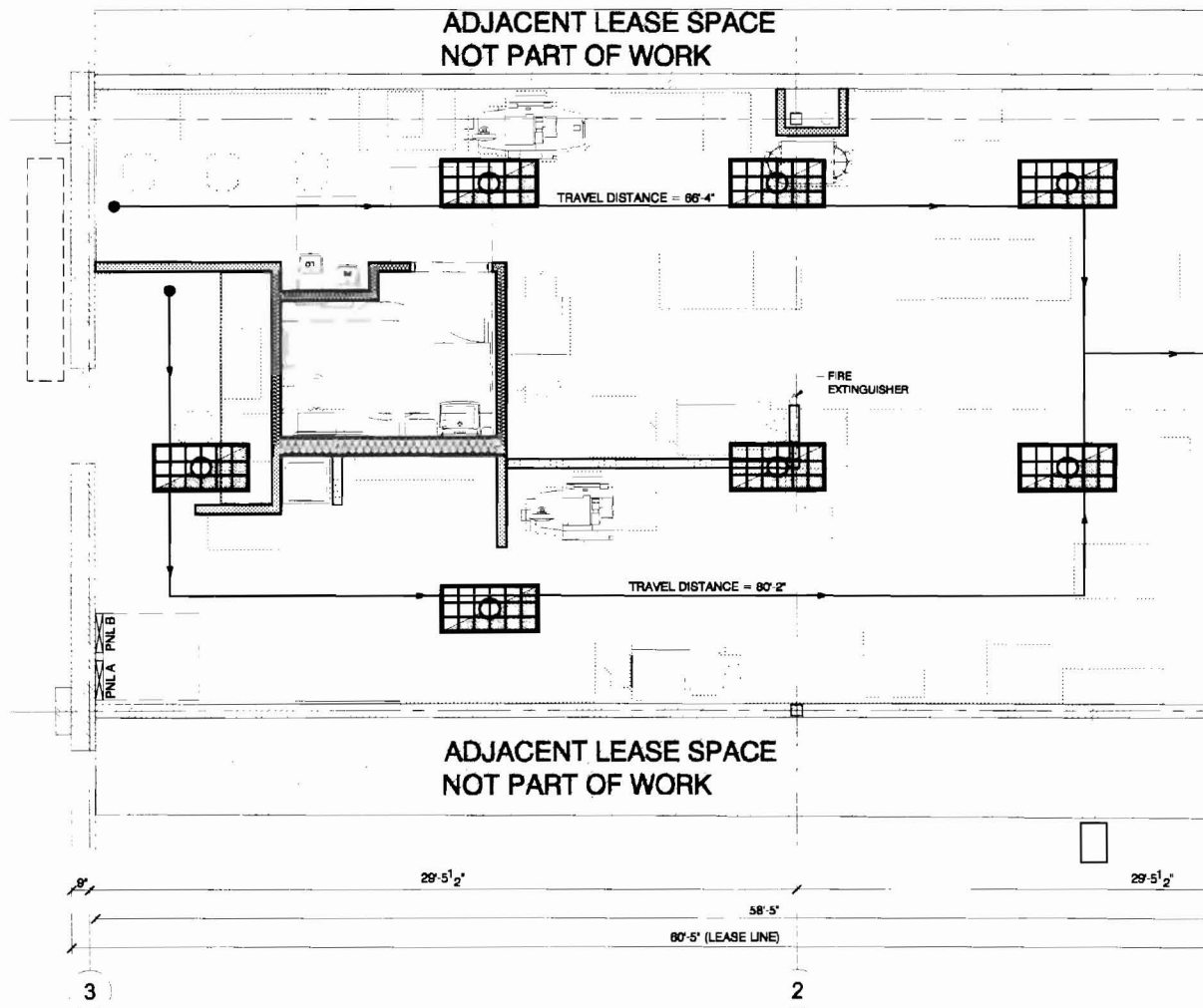
## DIMENSIONED & FINISH FLOOR PLAN

1/4" = 1'-0"



PLAN NORTH





**1** LIFE SAFETY PLAN  
1/4" = 1'-0"

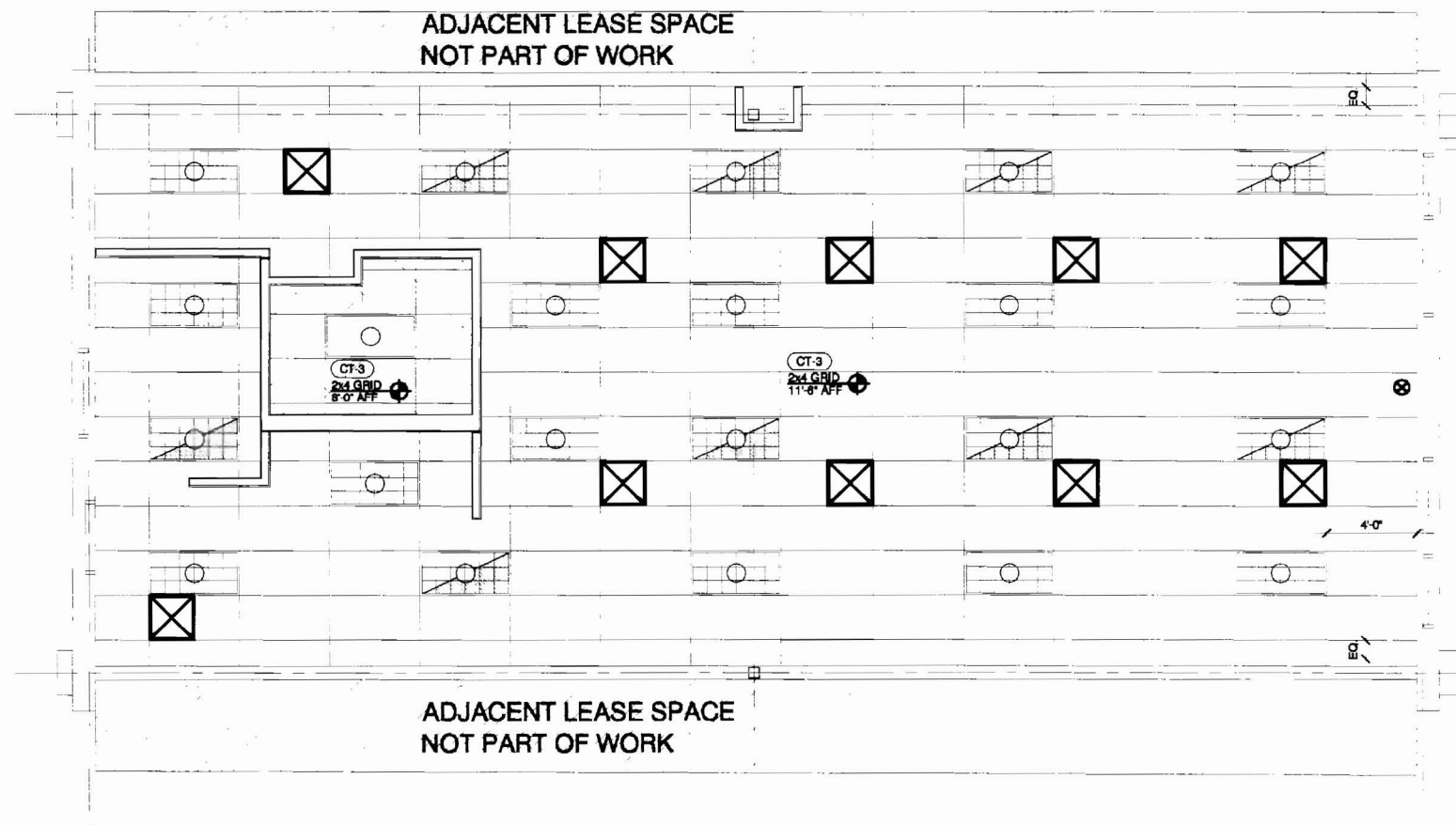


# RCP-RESPONSIBILITY SCHEDULE

	FURNISHED BY:	NEW & RELO	INSTALLED BY:	NEW & RELO	RECEIVED	COMMENTS:
LIGHTING FIXTURES	FXK		GC			REFERENCE NOTE 3
FIRE SPRINKLER SYSTEM	GC		GC			MODIFICATION TO EXSTG. SY.
FIRE EXTINGUISHERS	GC		GC			

## NOTES

1. WORK SHOWN AS FEDEX KINKO'S FURNISHED/INSTALLED MAY BE WORK FURNISH LANDLORD OR FEDEX KINKO'S VENDOR. GENERAL CONTRACTOR SHALL COORDINATE NECESSARY.
2. GENERAL CONTRACTOR SHALL COORDINATE ALL VENDOR SUPPLIED ITEMS, PER PACKAGE
3. VERIFY WITH FXK CONSTRUCTION MANAGER.



1

## REFLECTED CEILING PLAN

1/4" = 1'-0"



# EQUIPMENT PLAN- RESPONSIBILITY SCHEDULE (Revised 05/23/06)

	FURNISHED BY:	NEW & RELO	INSTALLED BY:	NEW & RELO	RECEIVED	COMMENTS:
COPIERS, FAX MACHINES, LASER PRINTERS	FXK		FXK			ELECTRICAL BY GC
COMPUTER EQUIPMENT: LAPTOP PRINTING STATIONS, CR6, CRI, CRD, DPW, FPOS, CMW, BOC, REG, EPREG, OE, SCANNER, CENTER SERVER, WAN ACCESS, EXPRESS PAY EQUIPMENT TO BE RELOCATED	FXK		FXK			ELECTRICAL BY GC
ANCILLARY EQUIPMENT: BINDING-BINDERS, BINDING PUNCHES, BOOKLETMAKERS, BUSINESS CARD SLITTER, COLLATORS, CUTTERS, DRILLS, FAST FRAME SYSTEMS, FOLDERS, GROMMET MACHINES, JOGGER, LAMINATING MACHINES, MONEY COUNTERS, PADDERS, PERFORATE/SCORE/NUMBER, ROTARY TRIMMERS, SHREDDERS, SHRINKWRAPPERS, STITCHERS, STAPLERS, TABBING EQUIPMENT	FXK		GC			GC TO RELOCATE EQUIPMENT AS INDICATED ON ARCHITECTURAL FLOOR PLANS ELECTRICAL BY GC. ANCILLARY EQUIPMENT INSTALLED BY FXK FOR RELOCATION PROJECTS.
PASSPORT CAMERA	FXK		FXK			ELECTRICAL BY GC
PHOTO FINISHING SYSTEMS, SONY PICTURE STATION	FXK		FXK			ELECTRICAL BY GC
POSTAGE METERS, FEDEX SCALE	FXK		GC			Reference Note 3 below
SAFE	FXK		GC			

NOTES:  
 1. WORK SHOWN AS FEDEX KINKO'S FURNISHED/INSTALLED MAY BE WORK FURNISHED/INSTALLED BY THE LANDLORD OR FEDEX KINKO'S VENDOR. GENERAL CONTRACTOR SHALL COORDINATE WITH THE LANDLORD IF NECESSARY.  
 2. GENERAL CONTRACTOR SHALL COORDINATE ALL VENDOR SUPPLIED ITEMS, PER SCHEDULE PROVIDED BY CONSTRUCTION MANAGER.  
 3. GENERAL CONTRACTOR SECURE SAFE TO FLOOR AS PER MANUFACTURER RECOMMENDATIONS.

# EQUIPMENT/FIXTURE LEGEND

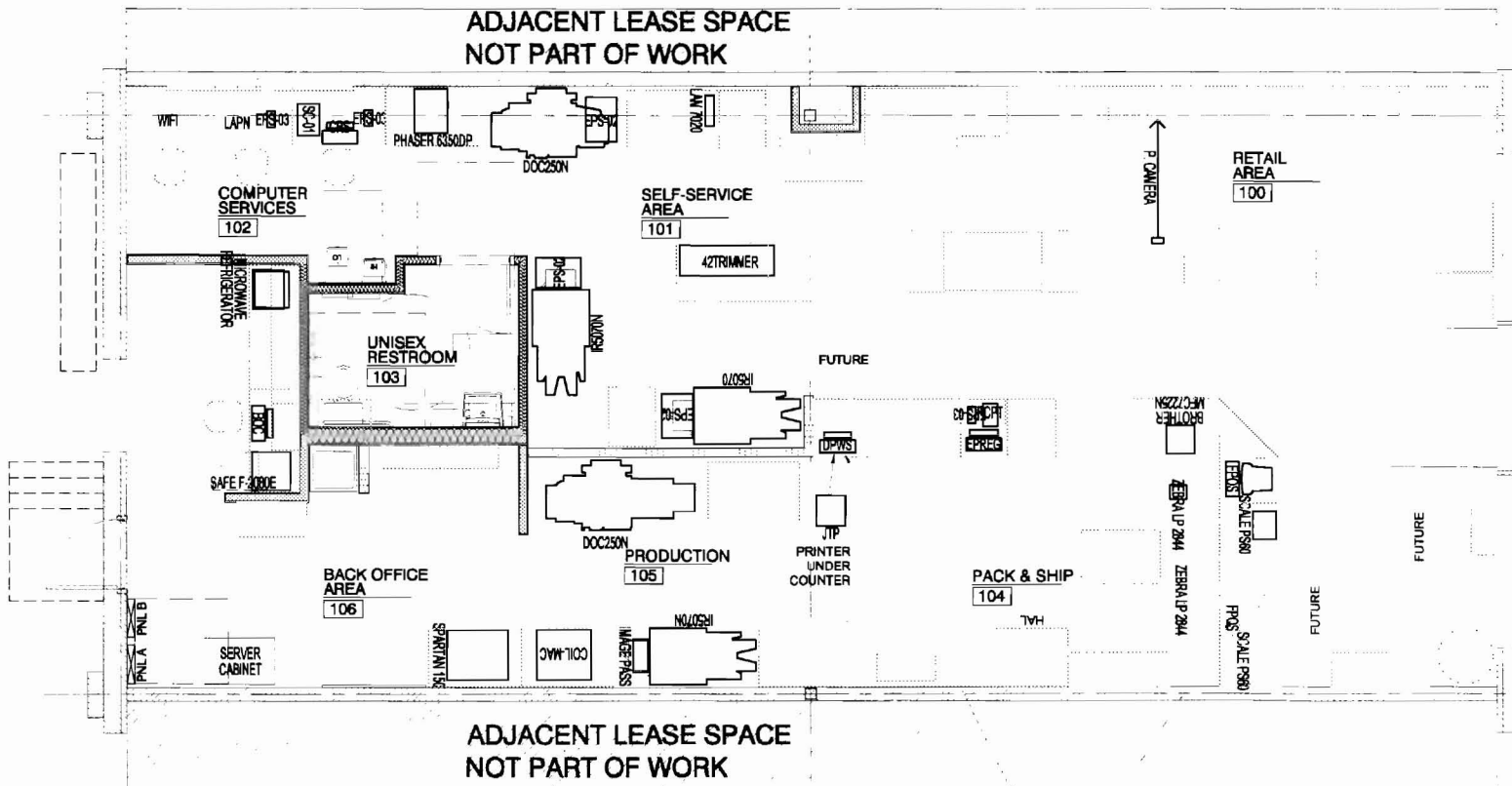
SYMBOL	DESCRIPTION
	EQUIPMENT/FIXTURE TO BE REMOVED FROM CENTER AND DESTROYED. CONSULT WITH MANAGER, RELOCATE OR DEMO AT MANAGERS DISCRETION.
	EXISTING FIXTURE/EQUIPMENT TO BE RELOCATED FROM WITHIN EXISTING CENTER. CHOOSE FROM LIKE EXISTING EQUIPMENT/FIXTURE IN BEST CONDITION.
	EXISTING FIXTURE/EQUIPMENT BEING RELOCATED FROM CENTER. CHOOSE FROM LIKE EXISTING EQUIPMENT/FIXTURE IN BEST CONDITION FROM EXISTING STORE OR ANOTHER STORE LOCATION.
	EXISTING EQUIPMENT/FIXTURE TO REMAIN IN EXISTING LOCATION.
	NEW EQUIPMENT/FIXTURE.
	FUTURE EQUIPMENT/FIXTURE.

### NOTE:

- PROVIDE A MINIMUM 36" CLEAR PATH BETWEEN ALL FURNITURE, FIXTURES AND EQUIPMENT UNLESS NOTED OTHERWISE.
- ALL EQUIPMENT NOT MARKED WITH  ARE NEW **N**.
- ALL FIXTURES NOT MARKED WITH  ARE NEW **N**.

# Equipment Schedule

PPLSFT	QTY	Status	
		Future	New
TBD	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
NC250NE	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
NCJOBTK	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TBD	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
NC250N	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TBD	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
NCIIR5070E	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TBD	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
600639	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
408410	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
600060	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
600287	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
600216	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TBD	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TBD	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
800103	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
380410	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
412500	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
OTPPPOSREG	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
NO PS#	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TBD	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CCBOCNEW	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
NO PS#	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TBD	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
DPW2NEW	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TBD	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
600553	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TBD	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
DELLCRSLIMNEW	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TBD	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TBD	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TBD	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>



FUTURE EQUIPMENT TO BE PLACED ON SALES COUNTER. DPWS & SC-01 THEN MOVES TO PC ADJACENT TO DOC250N.  
 RCP1 REG  
 X-FRAME PROVIDED WITH X-PEDX SUPPLIES TO BE PLACED UNDER MAIL DROP COUNTER.  
 ZEBRA PRINTERS TO GO UNDER FPOS COUNTERS.

1

## EQUIPMENT PLAN

1/4" = 1'-0"



PLAN NORTH



# GRAPHICS PLAN- RESPONSIBILITY SCHEDULE (Revised 05/2)

	FURNISHED BY:	NEW & RELO INSTALLED BY:	NEW & RELO	COMMENTS:
WINDOW AND DOOR DECAL GRAPHICS	FXX	FXX		
INTERIOR FEDEX KINKO'S OFFICE AND PRINT CENTER DECAL LOGO	FXX	FXX		
INTERIOR FEDEX KINKO'S "MAKE IT, PRINT IT, PACK IT, SHIP IT." GRAPHIC	FXX	FXX		
OVERHEAD GRAPHICS AND DIRECTIONAL SIGNAGE	FXX	GC		
PASSPORT SCREEN ON RETAIL FIXTURE	FXX	GC		
PASSPORT VALANCE AND SCREEN	FXX	GC		
POSTERS	FXX	GC		

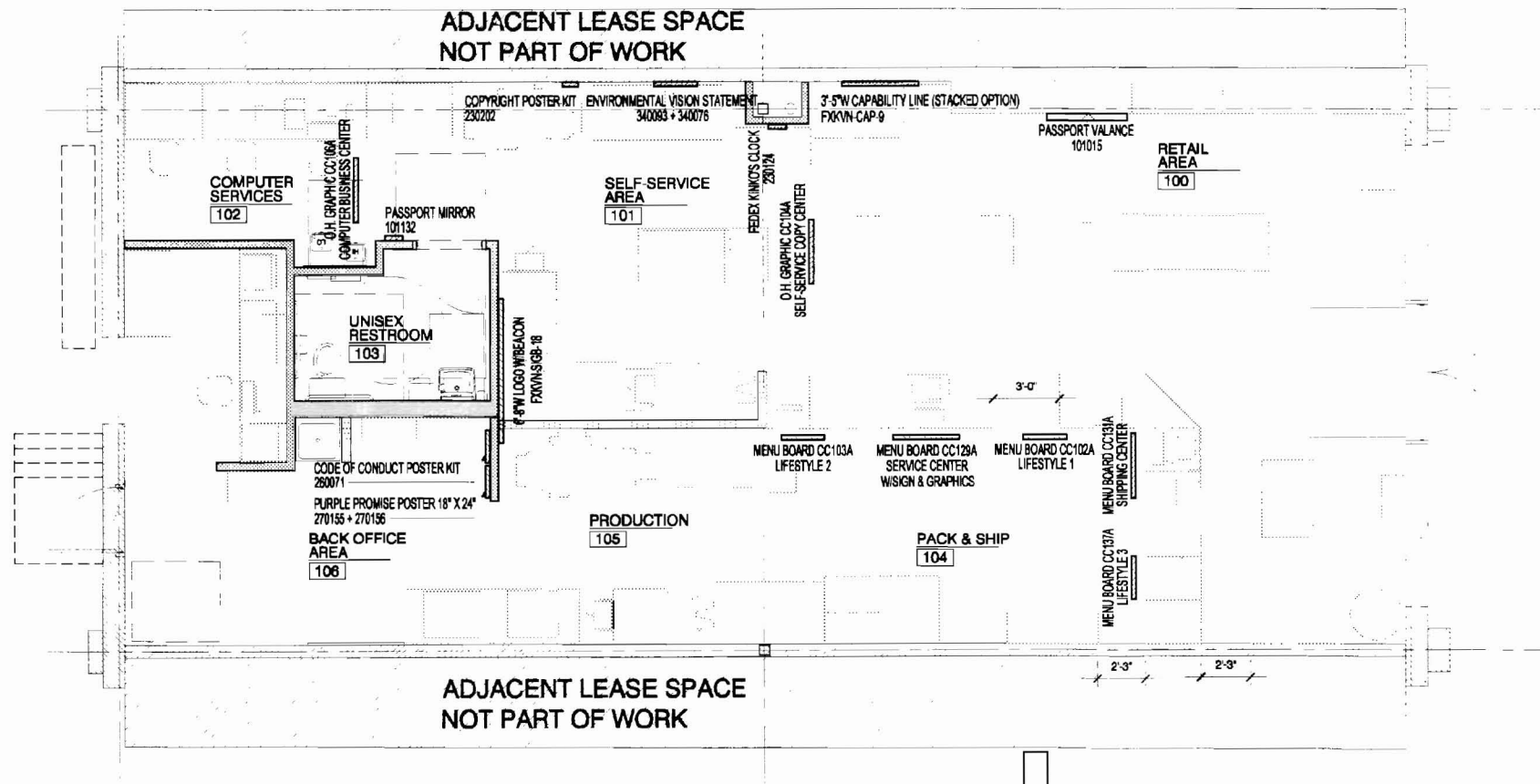
## NOTES

1. WORK SHOWN AS FEDEX KINKO'S FURNISHED/INSTALLED MAY BE WORK FURNISHED BY LANDLORD OR FEDEX KINKO'S VENDOR. GENERAL CONTRACTOR SHALL COORDINATE NECESSARY.

2. GENERAL CONTRACTOR SHALL COORDINATE ALL VENDOR SUPPLIED ITEMS, PER S&C CONSTRUCTION MANAGER.

## Purchasing List for Wall Signage & Supplies

PPLSFT	Qty	Description
260071	1	Code of Conduct Poster Kit (Poster and Frame)
230202	1	Copyright Poster Kit
340093 + 340078	1	Environmental Vision Statement (Snap frame for this is KDS item)
500558	1	FedEx Kinko's Logo with Beacon 6'-8"W (vinyl lettering) (On PT-2)
230124	1	FedEx Kinko's clock (order 3 per S & G Flagship)
TBD	1	Graphics Kit - Compact Car
500553	1	Make It, Print It, Pack It, Ship It capability line 3'-5"W (On PT-25)
101132	1	Passport Mirror
101015	1	Passport Photo Wall Fixture & Screen
270155 + 270158	1	Purple Promise Poster + Purple Promise Frame



### NOTE:

MOUNT ALL WALL GRAPHICS AS INDICATED ON REFERENCED DETAILS. RE: A-5.0 & A-5.1 FOR GENERAL MOUNTING HEIGHTS.

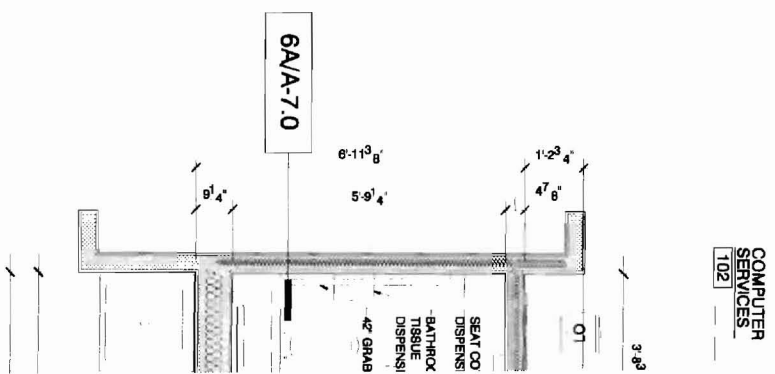
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## GRAPHICS PLAN

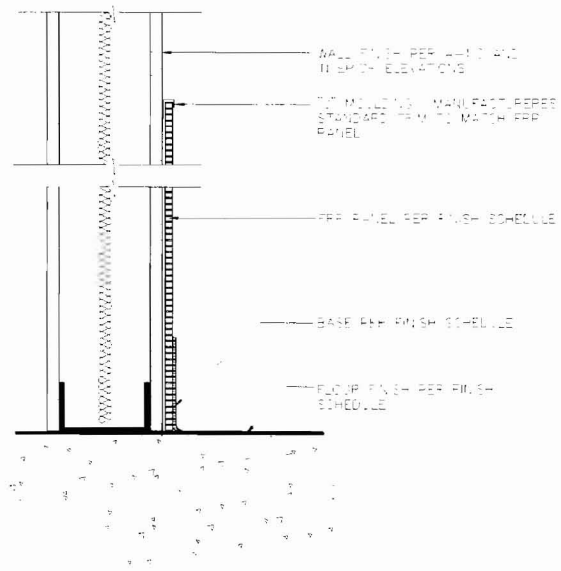
1/4" = 1'-0"



PLAN  
NORTH



ENLARGED TOILET PLAN



## GC PROVIDED TOILET ACCESSORY SPECIFICATIONS

ITEM	MAN.	MODEL	ASI MODEL	BOBRICK MODEL	DESCRIPTION
GRAB BAR	—	—	3800 SERIES	B6806x	EXPOSED MOUNTING, 1-1/2" Ø, STAINLESS STEEL
MIRROR 18"x36"	—	—	0620	B165	STAINLESS STEEL CHANNEL FRAME MIRROR

## FXK PROVIDED TOILET ACCESSORY LIST

ITEM	ITEM
AIR FRESHNER	DOUBLE ROLL BATHROOM TISSUE DISPENSER
PAPER TOWEL DISPENSER	TOILET SEAT COVER DISPENSER
FOAMING HAND SOAP DISPENSER	

CONTRACTOR TO PROVIDE BLOCKING FOR MTG. ALL WALL, CEILING & PARTITION MTD. ITEMS ETC. LOCATIONS & REQUIREMENTS ARE TO BE COORDINATED WITH PLUMBING, MECHANICAL, AND ELECTRICAL AS WELL AS FXK SUPPLIED ITEMS.

## TOILET ROOM SIGNAGE

### ADA TOILET ROOM PERMANENT WALL SIGNAGE

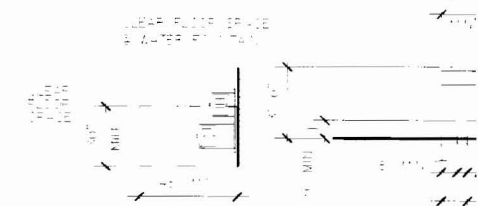
GENERAL NOTE:  
ADA TOILET ROOM PERMANENT SIGNS SHALL BE INSTALLED ON WALL ON LATCH SIDE OF DOOR ON EXTERIOR AT +60" TO THE CENTERLINE OF THE SIGN. SIGN SHALL CONTAIN 5/8" UPPER CASE 1/32" RAISED SANS-SERIF CHARACTERS W/ CORRESPONDING GRADE 2 BRAILLE. 6" MIN. HIGH PICTOGRAM SHALL BE PLACED DIRECTLY BELOW. SIGNAGE SHALL BE LOCATED ADJACENT TO THE DOOR ON THE LATCH SIDE TO ALLOW APPROACH WITHIN 3" OF SIGNAGE WITHOUT PROTRUDING OBJECTS. INSTALL THESE SIGNS IN ALL LOCATIONS. RE: A-8.0 FOR DOOR SCHEDULE, TYPES, & SPECIFICATIONS



International Symbol of Accessibility

LETTER & NUMBERS ON SIGNS SHALL HAVE A RATIO OF BETWEEN 3.5 & 1:1 AND A STROKE RATIO BETWEEN 1.5 & 1:1.0. LETTERS AND NUMBERS RAISED 1/32" UPPER CASE, SANS SERIF OR SIMI SHALL BE ACCOMPANIED WITH GRADE 2 BRA CHARACTERS SHALL BE AT LEAST 5/8" HIGH, BU

## FIXTURE CLEARANCE REQUIREMENTS



## WALL BASE DETAIL

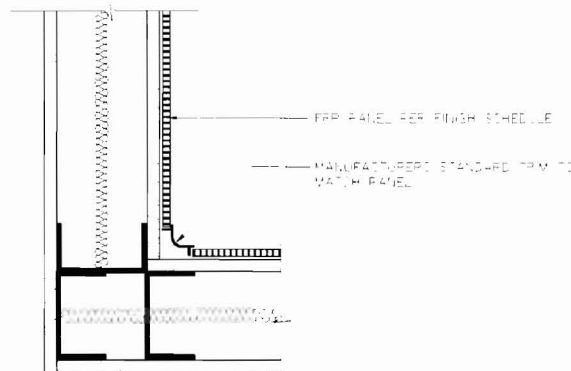
A3.4\_DET\_05  
3"=1'-0"

5

## TOILET ACCESSORIES

A3.4\_DET\_03  
NO SCALE

3



## RESTROOM PLAN-RESPONSIBILITY SCHEDULE

	FURNISHED BY:	NEW & RELO INSTALLED BY:	FURNISHED BY:	REMODELS BY:	REMODELS BY:	COMMENTS:
REST ROOMS EXHAUST FANS	GC	GC				
EXHAUST FAN ROOF PENETRATION	GC	GC				REF. NOTE 3
FXK TOILET ROOM ACCESSORIES	FXK	FXK				REF. NOTE 4
GC TOILET ROOM ACCESSORIES	GC	GC				
TOILET ROOM GRAB BARS	GC	GC				
TOILET ROOM WALL & DOOR SIGNAGE	GC	GC				

### NOTES

- WORK SHOWN AS FEDEX KINKO'S FURNISHED/INSTALLED SHALL BE WORK FURNISHED/INSTALLED BY THE FED EX KINKO'S VENDOR. GENERAL CONTRACTOR SHALL COORDINATE WITH THE FXK VENDOR IF NECESSARY.
- GENERAL CONTRACTOR SHALL COORDINATE ALL VENDOR SUPPLIED ITEMS, PER SCHEDULE PROVIDED BY CONSTRUCTION MANAGER.
- COORDINATE ROOF PENETRATIONS WITH LANDLORD'S ROOFING VENDOR.
- GC TO PROVIDE AND INSTALL BLOCKING FOR FXK TOILET ACCESSORIES.

## CORNER MOULDING DETAIL

A3.4\_DET\_06  
3"=1'-0"

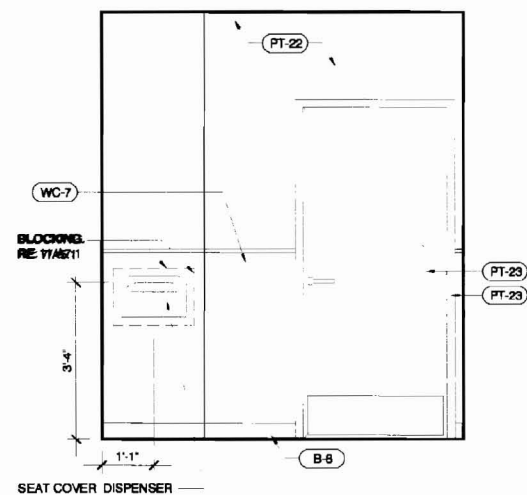
6

## RESPONSIBILITY SCHEDULE

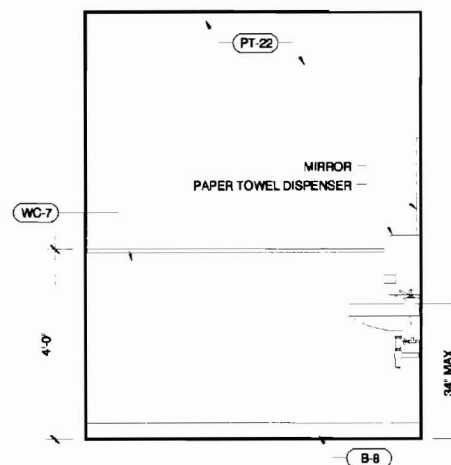
NO SCALE

4

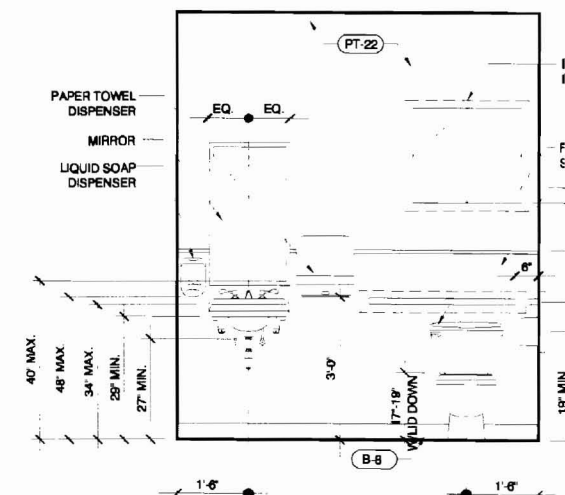
## ACCESSIBILITY REQUIREMENTS



ELEVATION A

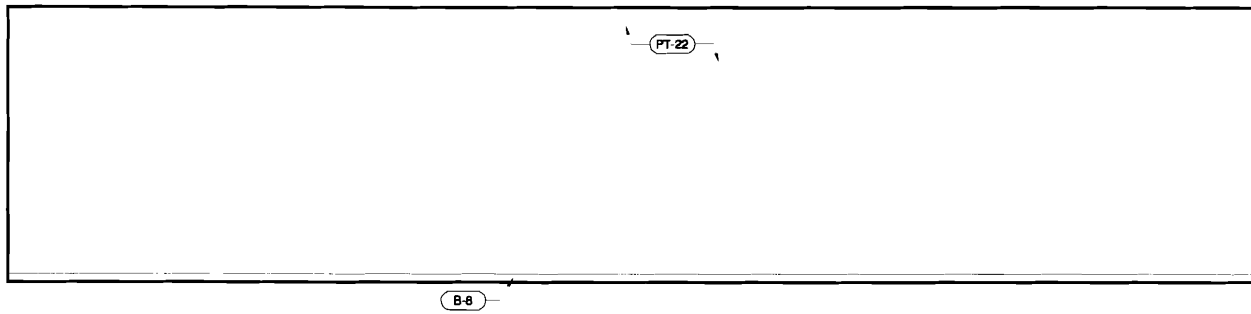


ELEVATION B

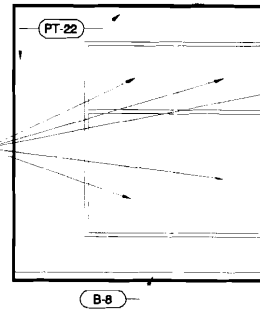


ELEVATION C

## TOILET INTERIOR DETAILS



EXISTING STOREFRONT  
TO REMAIN  
(TYP.)

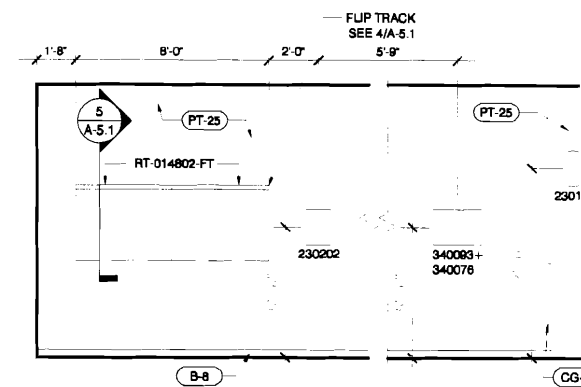
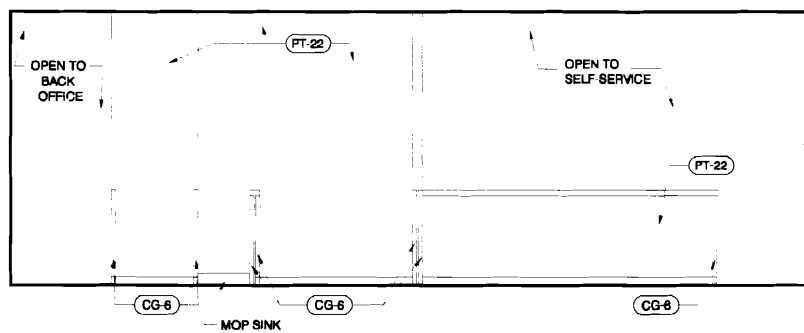


PACK & SHIP/PRODUCTION/BACK OFFICE

A4.0 DETAILS  
1/4"=1'-0"

4

ENTRY/RETAIL AREA

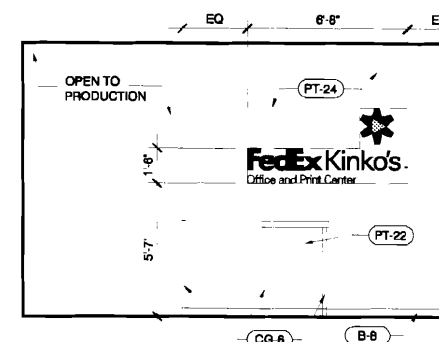
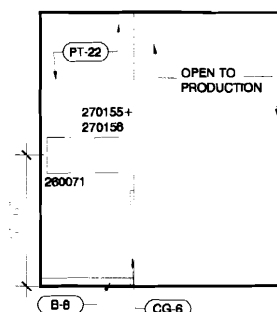
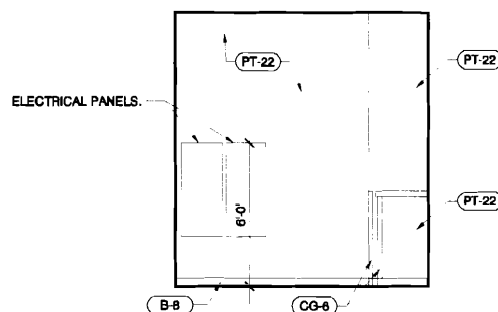


BACK OFFICE/PRODUCTION

A4.0 DETAILS  
1/4"=1'-0"

5

COMPUTER SERVICES/SELF-SERVICE



BACK OFFICE

A4.0 DETAILS  
1/4"=1'-0"

7

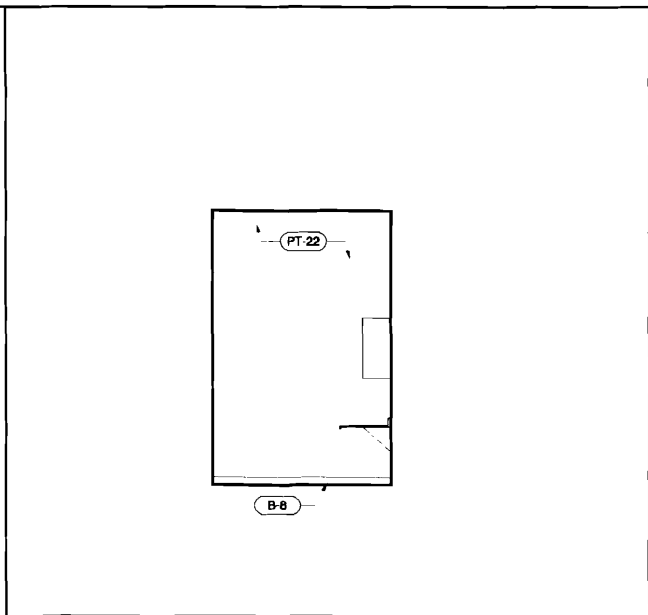
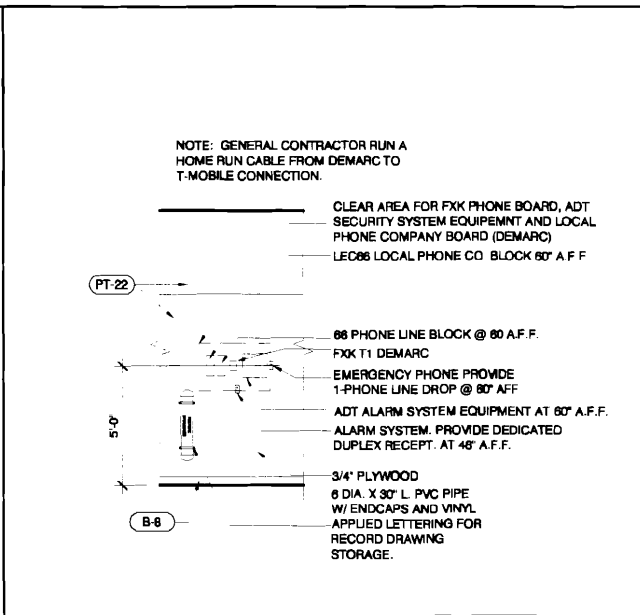
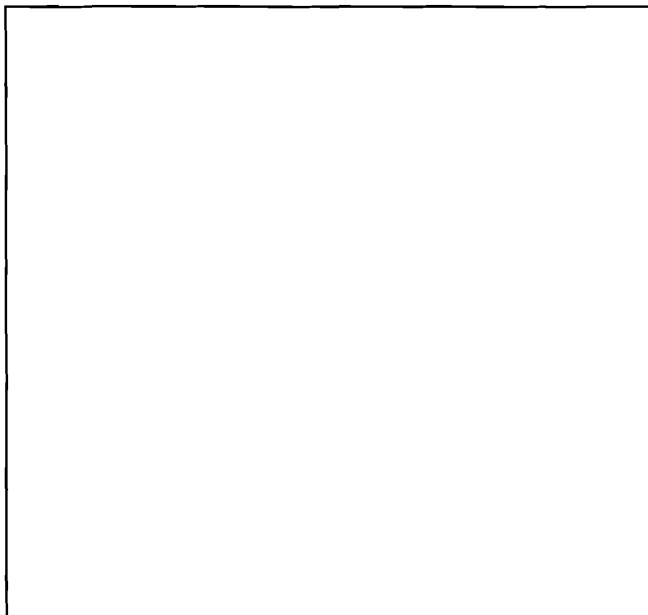
BACK OFFICE

A4.0 DETAILS  
1/4"=1'-0"

6

PRODUCTION/SELF SERVICE AREA



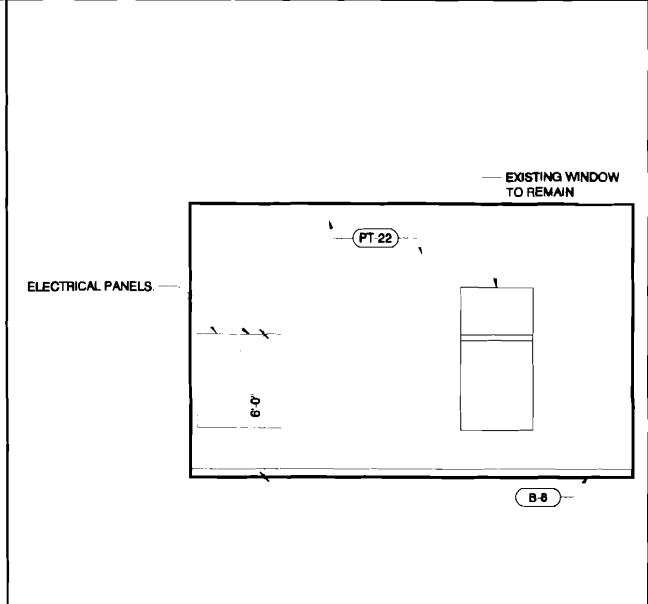
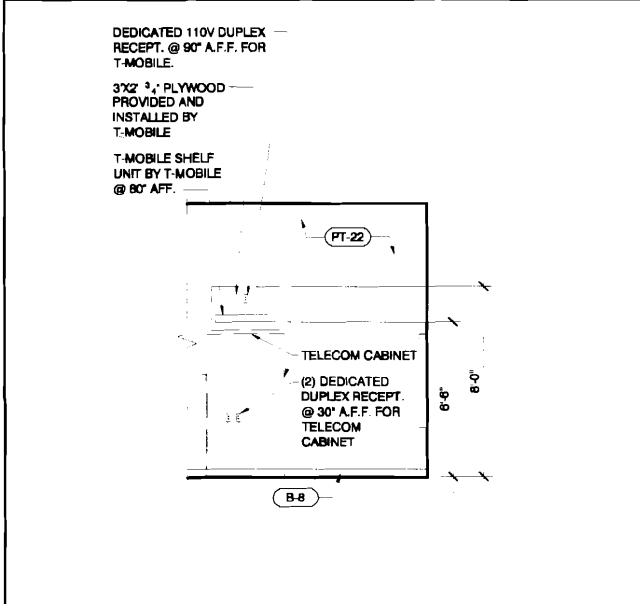
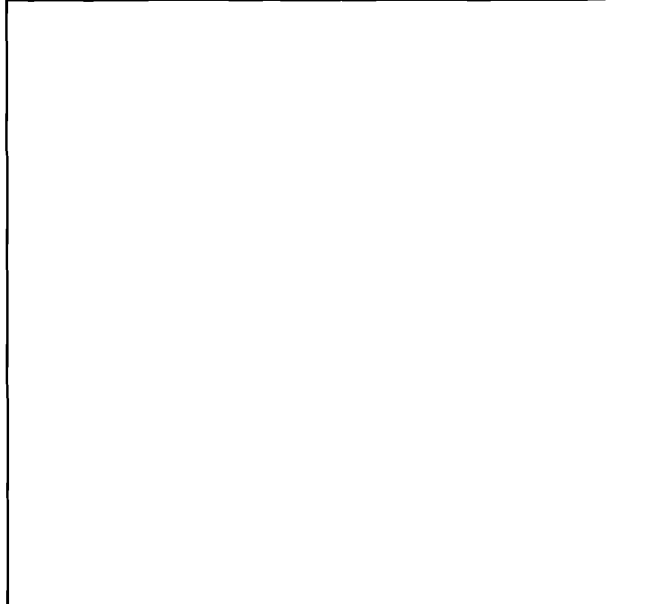


NOT USED  
1/4"=1'-0" (10)

SERVER AREA  
1/4"=1'-0" (7)

BACK OFFICE  
A4.1 DETAILS  
1/4"=1'-0" (4)

SE

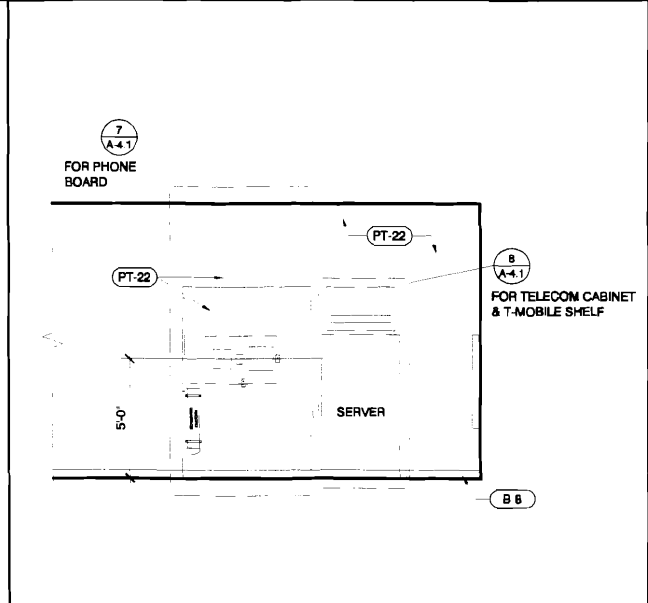
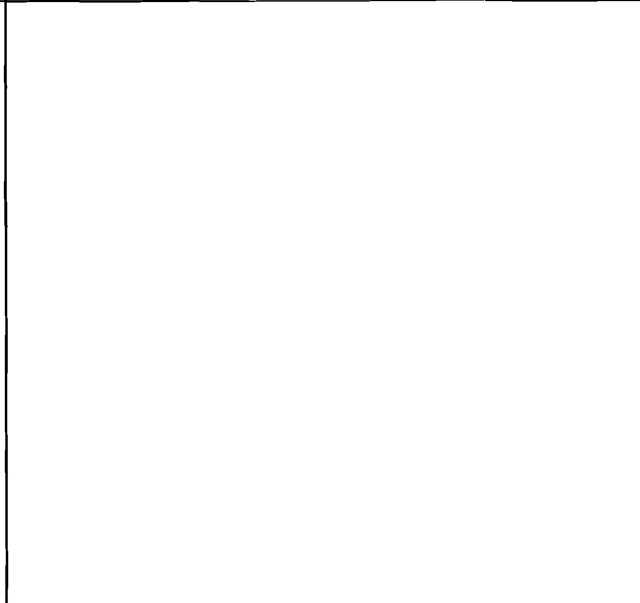
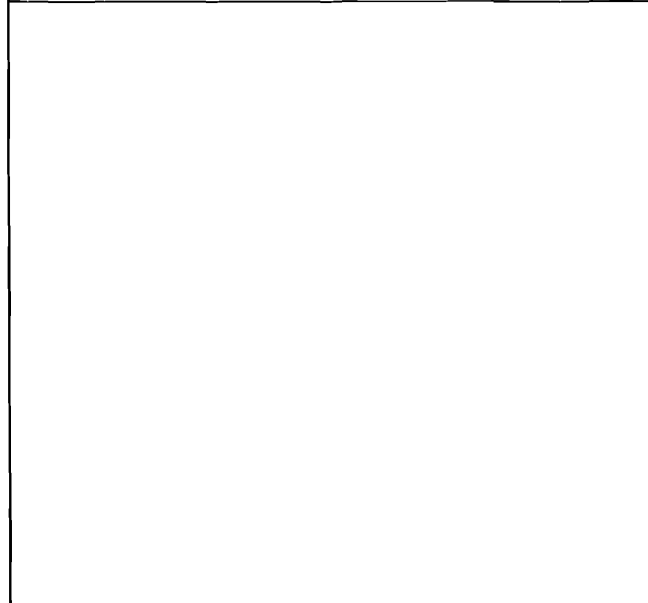


NOT USED  
1/4"=1'-0" (11)

SERVER  
A4.1 DETAILS  
1/4"=1'-0" (8)

BACK OFFICE  
A4.1 DETAILS  
1/4"=1'-0" (5)

CC



NOT USED  
1/4"=1'-0" (12)

NOT USED  
A4.1 DETAILS  
1/4"=1'-0" (9)

SERVER AREA  
A4.1 DETAILS  
1/4"=1'-0" (6)

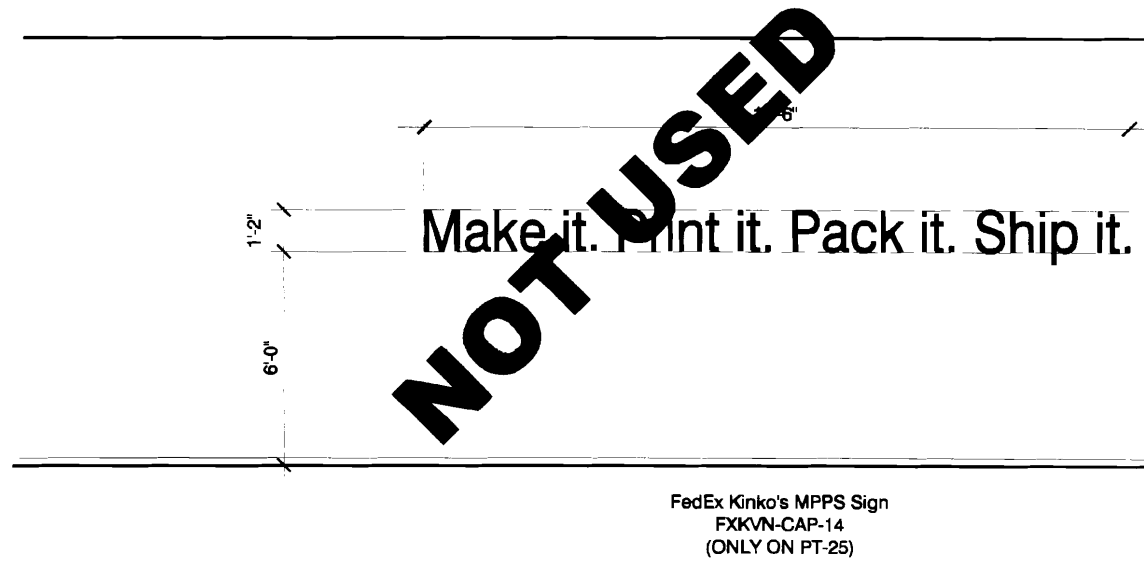
BA

STOREFRONT GRAPHICS

AS\_DET\_04  
1/2"=1'-0"

4

NOT USED

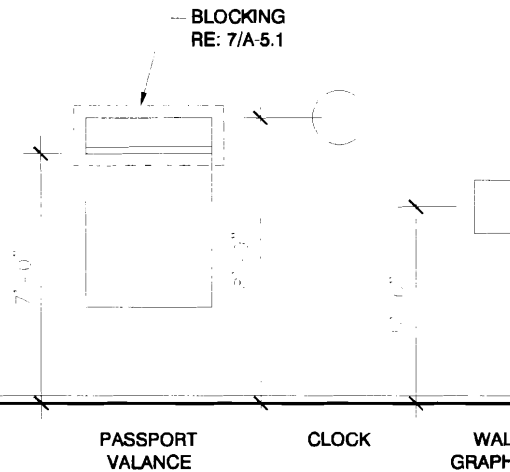


NOT USED

AS\_0\_DET\_05  
1/2"=1'-0"

5

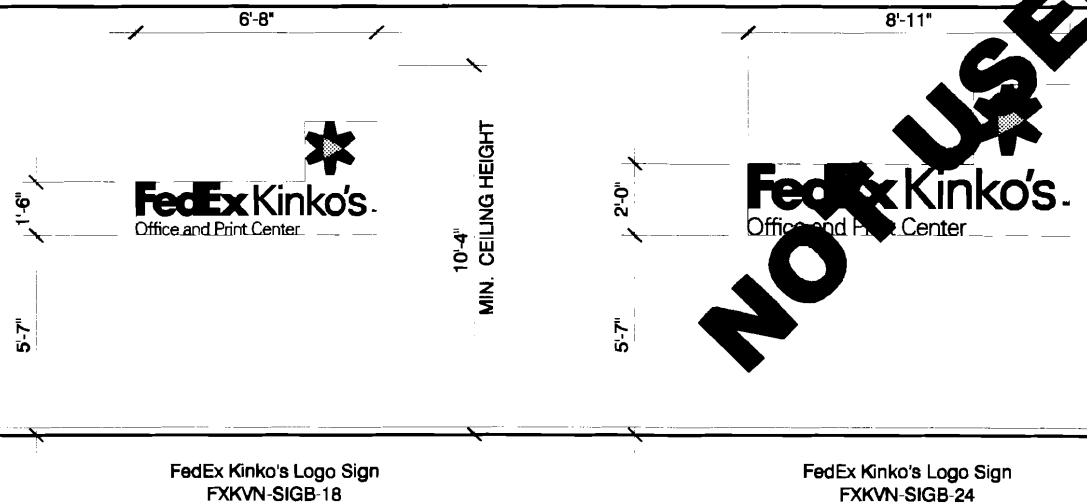
TYPICAL GRAPHICS MOUNTING ELEVATIONS



PASSPORT  
VALANCE

CLOCK

WALL  
GRAPHICS



FedEx Kinko's Logo Sign  
FXKVN-SIGB-18

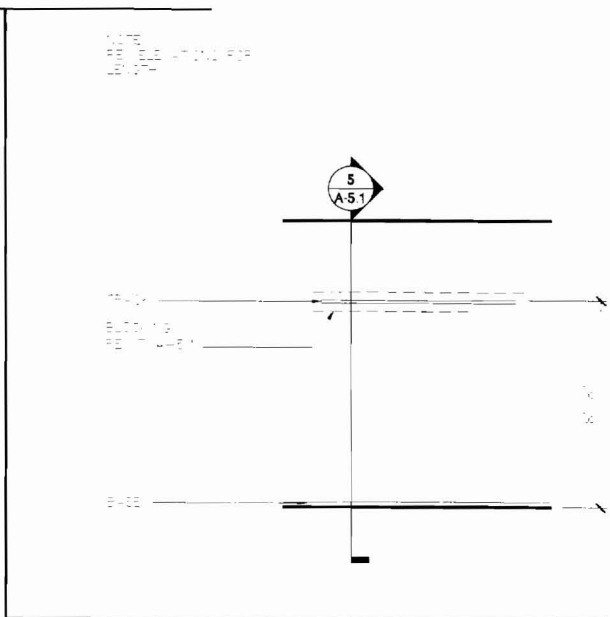
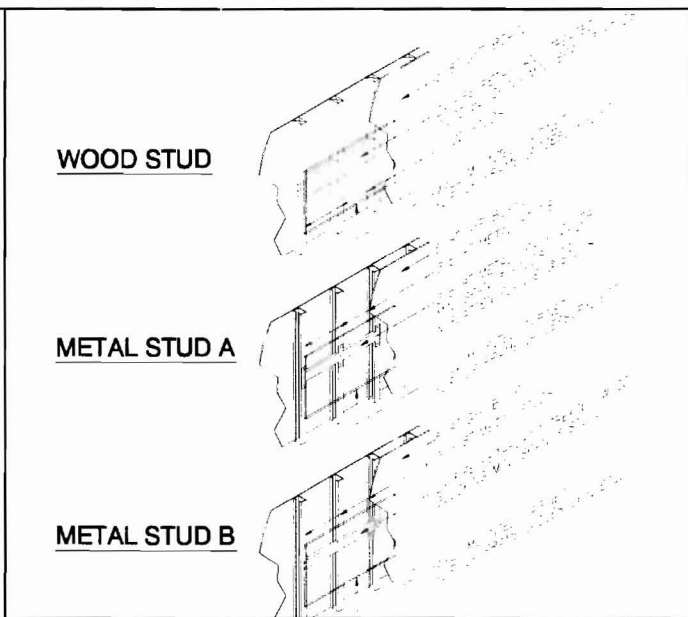
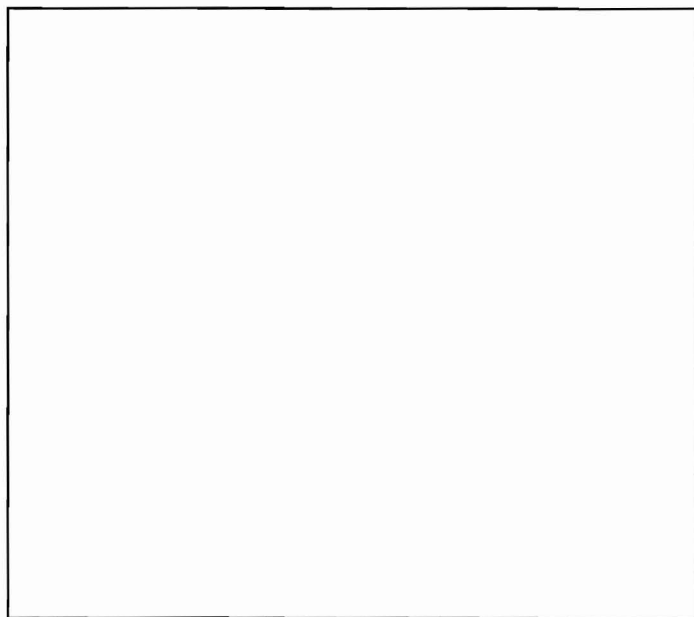
FedEx Kinko's Logo Sign  
FXKVN-SIGB-24

FIXTURE MOUNTING HEIGHTS

AS\_0\_DET\_06  
3/8"=1'-0"

6

TYPICAL GRAPHICS MOUNTING ELEVATIONS



NOT USED

A5.1\_DET\_10  
NTS

10

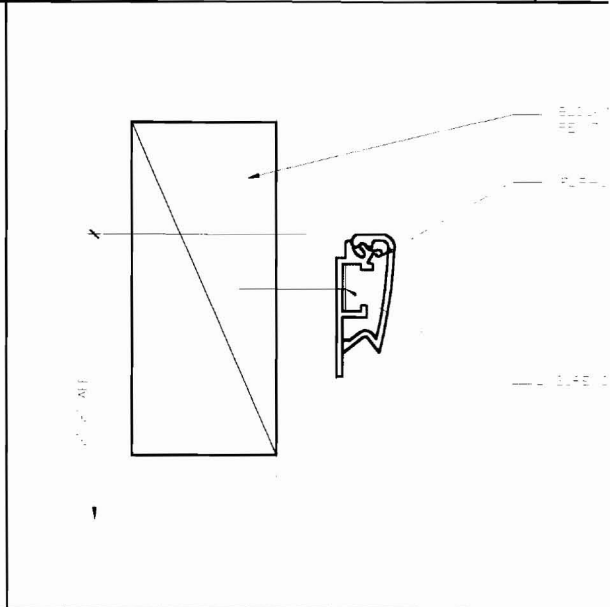
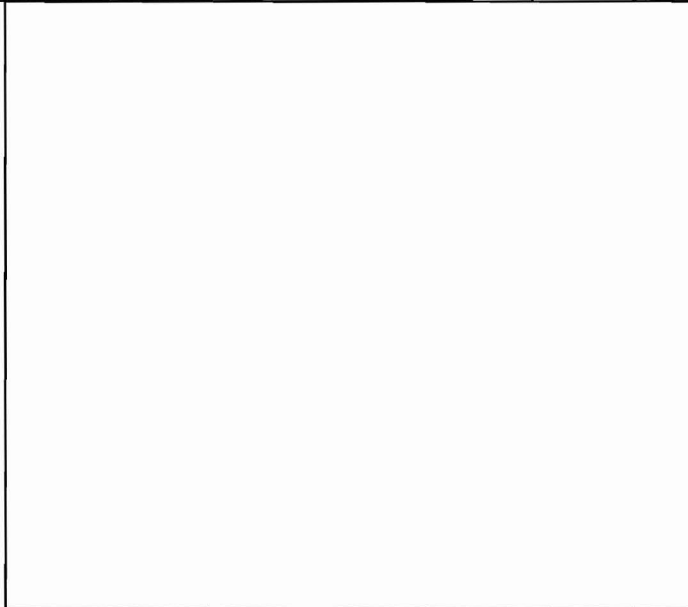
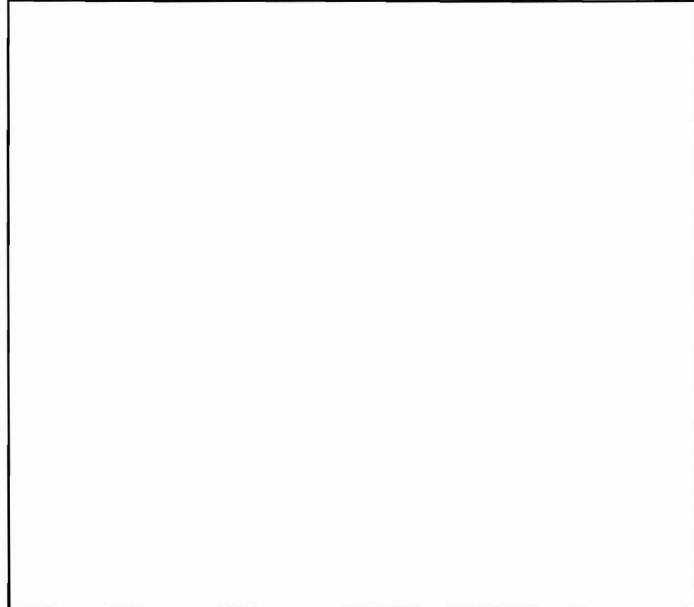
WALL BLOCKING

A5.1\_DET\_07  
NTS

7

FLIP-UP TRACK

A5.1\_DET\_07  
1/4"=1'-0"



NOT USED

A5.1\_DET\_11  
NTS

11

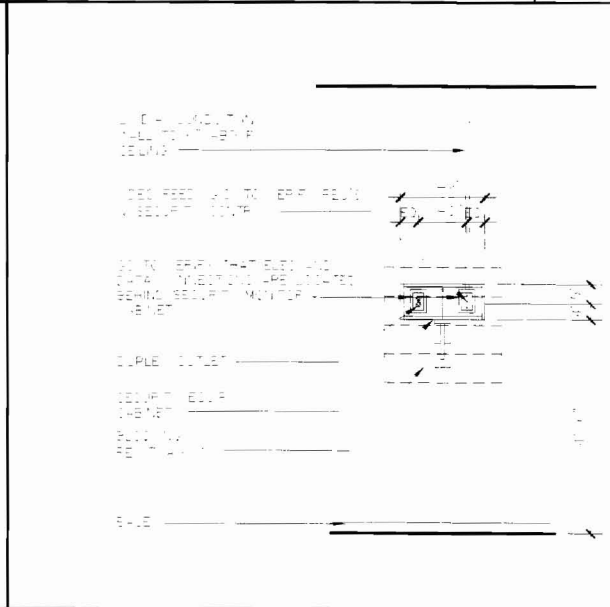
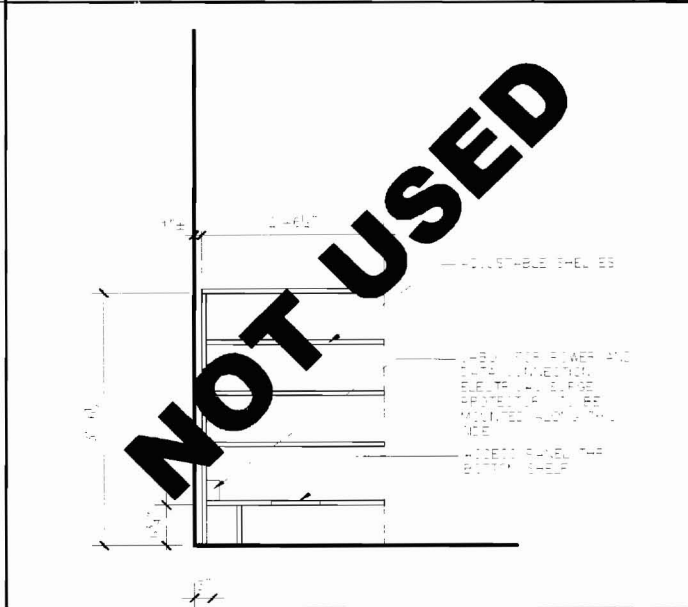
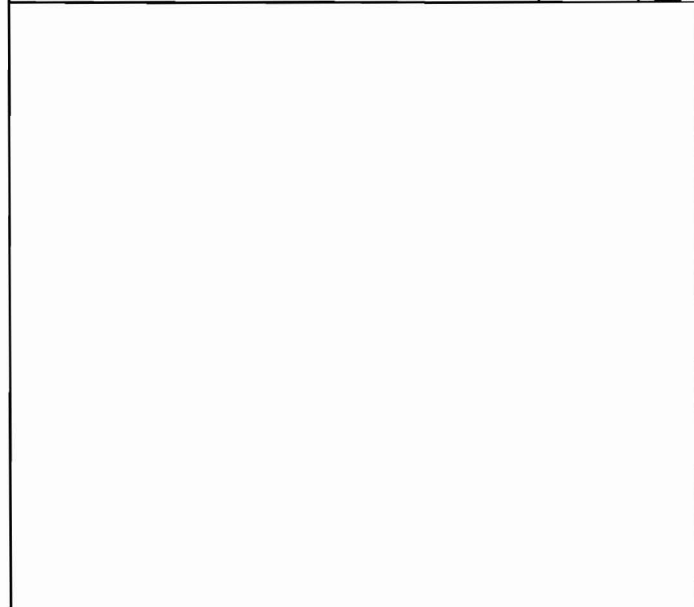
NOT USED

A5.1\_DET\_08  
NTS

8

FLIP-UP TRACK ATTACHMENT

A5.1\_DET\_08  
3"=1'-0"



NOT USED

A5.1\_DET\_12  
NTS

12

CABINET DETAIL

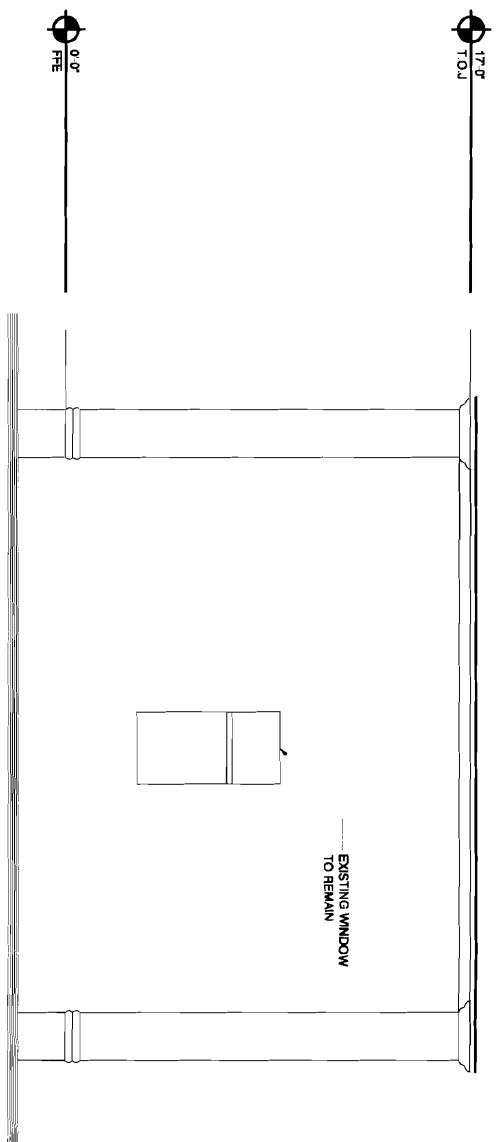
A5.1\_DET\_09  
3/4"=1'-0"

9

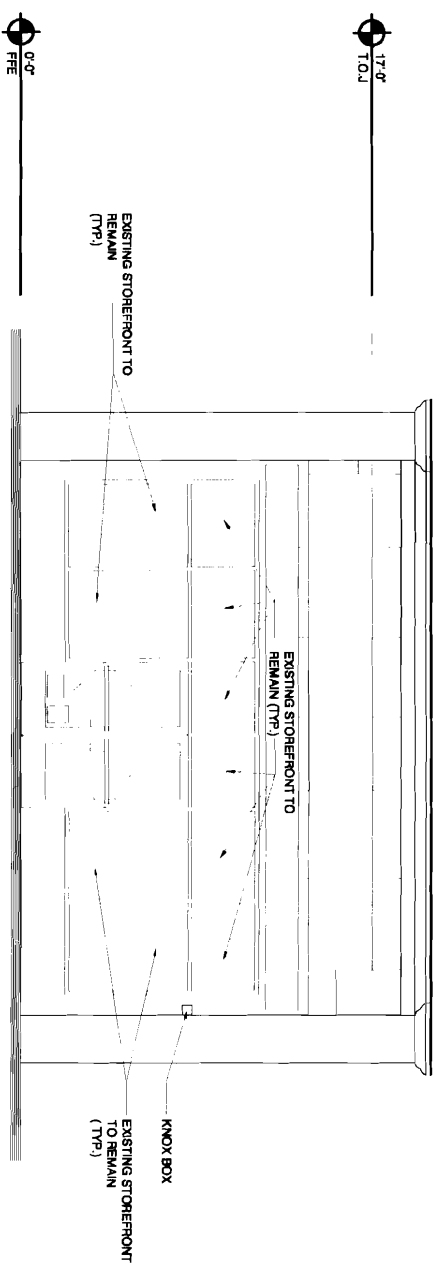
SECURITY MONITOR

A5.1\_DET\_09  
1/2"=1'-0"

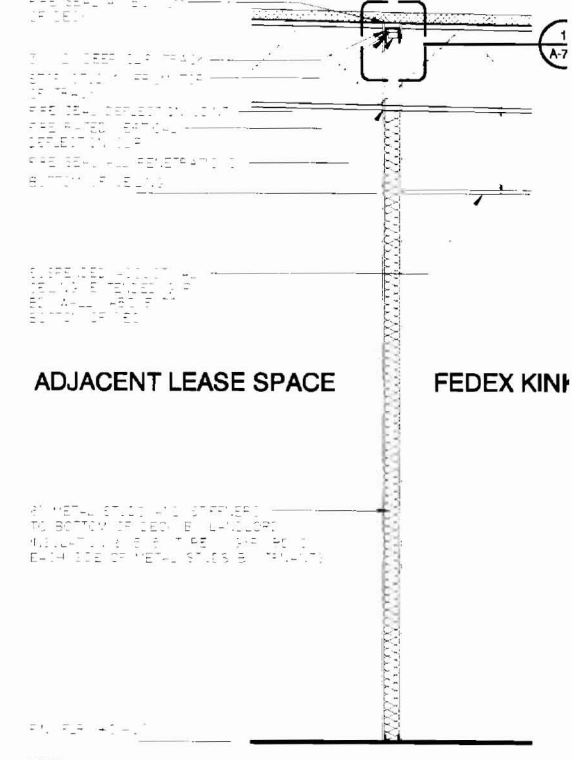
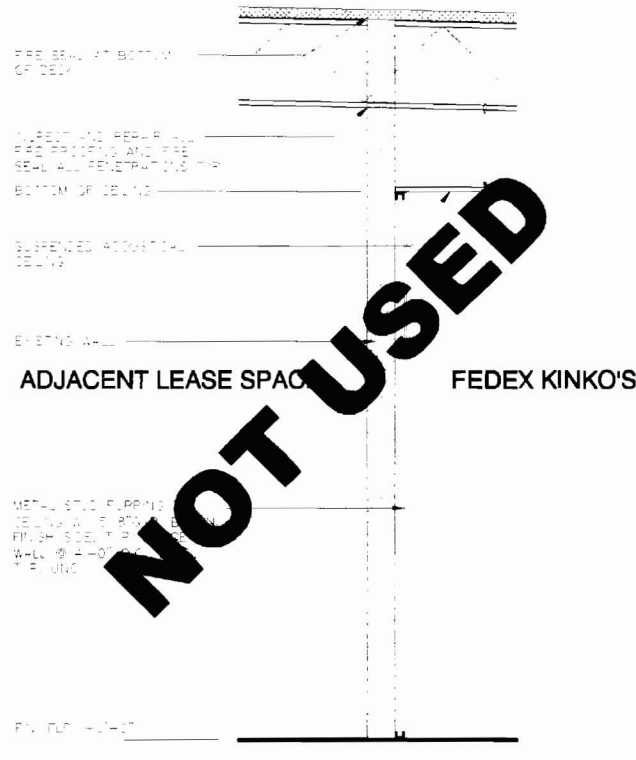
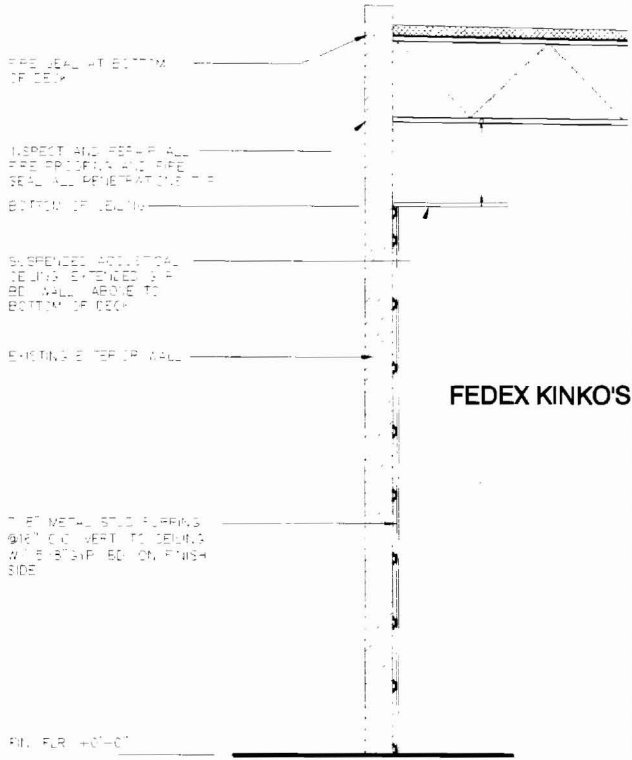
### WEST ELEVATION



### EAST ELEVATION



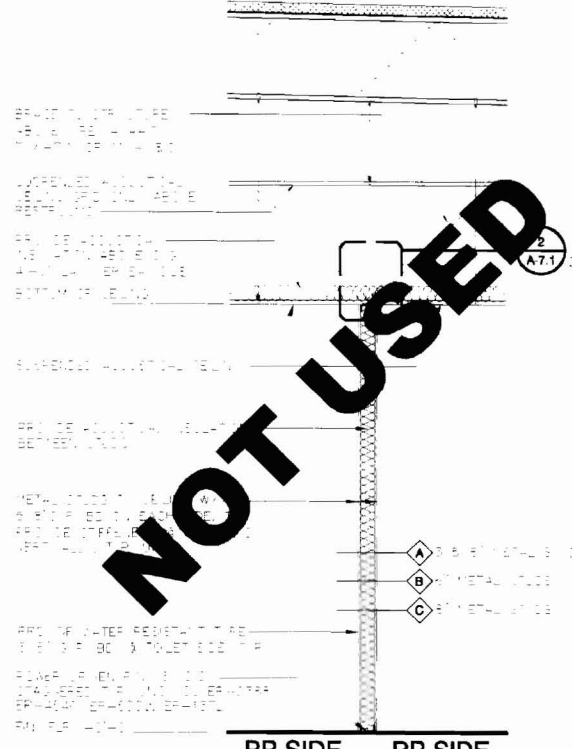
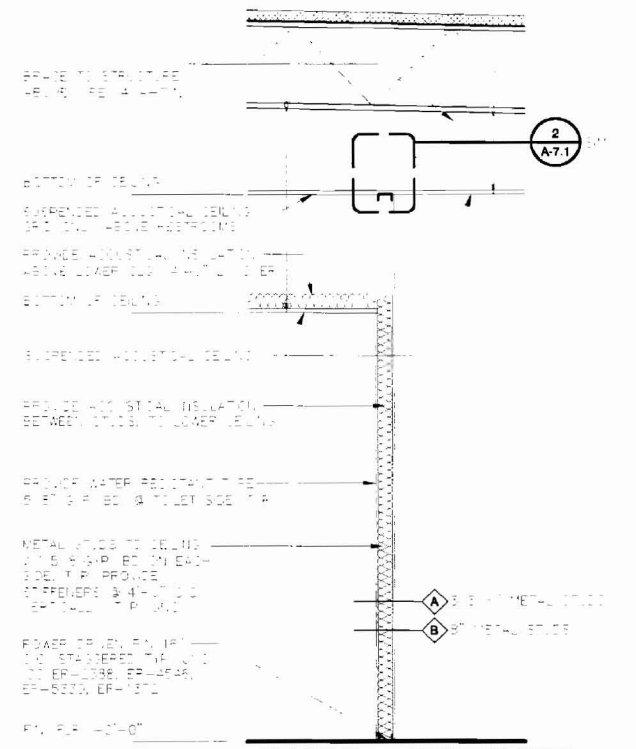
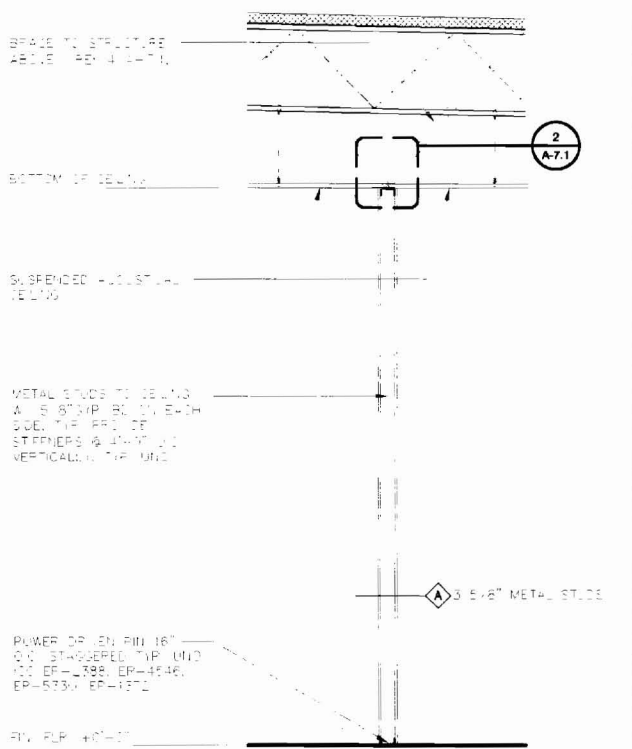
NOT USED



INTERIOR WALL SECTION A7.0\_DET\_07 1/2"=1'-0" 7

INTERIOR WALL SECTION A7.0\_DET\_05 1/2"=1'-0" 5

INTERIOR WALL SECTION A7.0\_DET\_04 1/2"=1'-0" 6



INTERIOR WALL SECTION A7.0\_DET\_08 1/2"=1'-0" 8

INTERIOR WALL SECTION A7.0\_DET\_06 1/2"=1'-0" 6

INTERIOR WALL SECTION A7.0\_DET\_04 1/2"=1'-0" 6

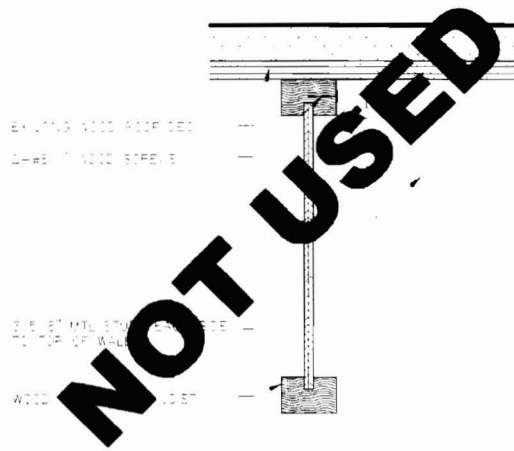


FURR DOWN DETAIL

A7.1\_DET\_10  
1/2"=1'-0"

10

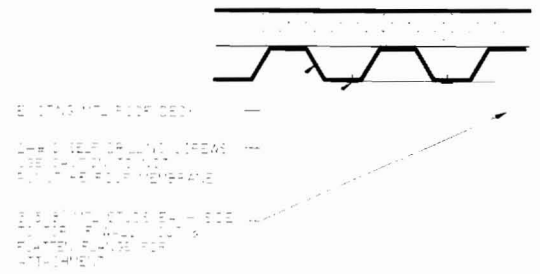
WALL BRACE



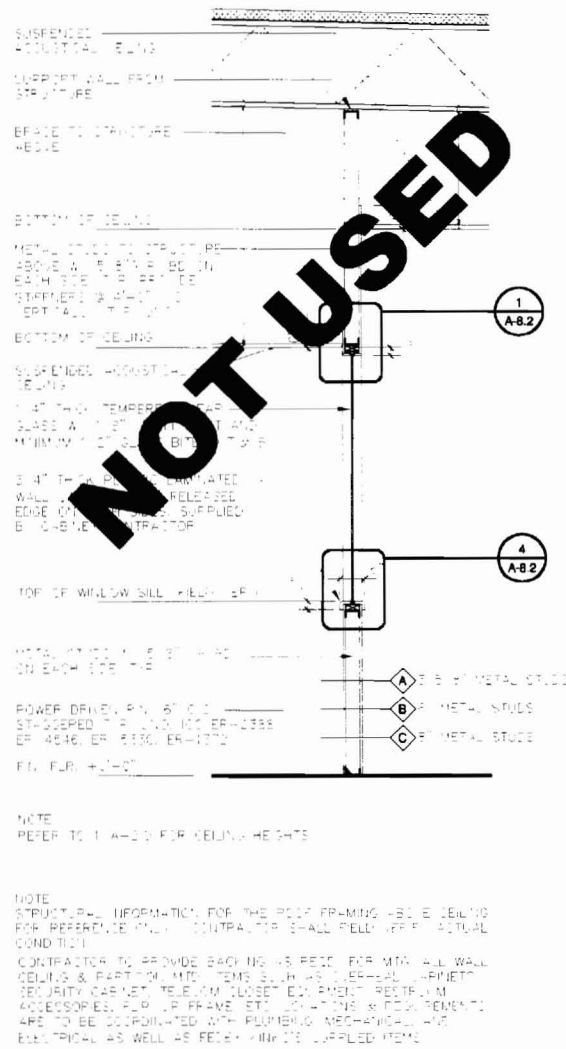
A7.1\_DET\_07  
3"=1'-0"

7

WALL BRACE



A7.1\_DET\_1  
3"=1'-0"

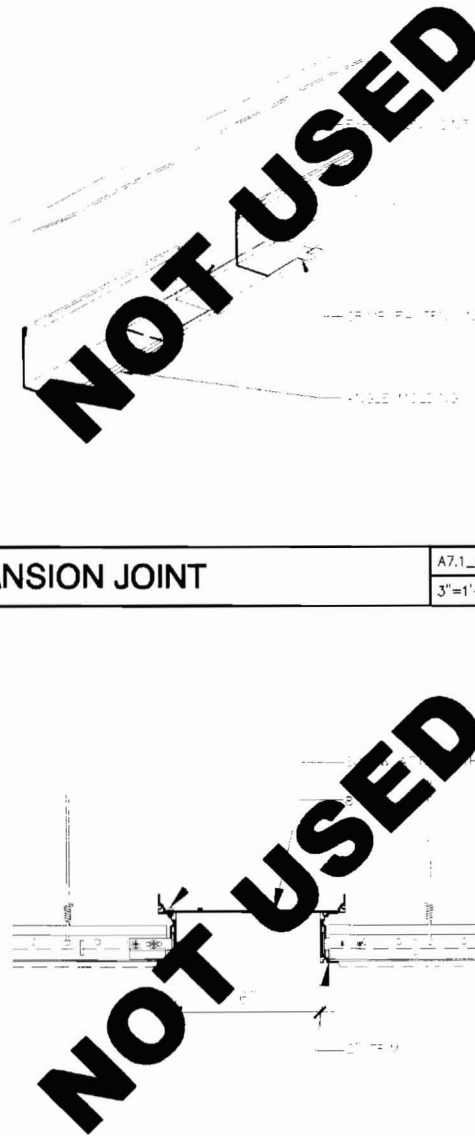


INTERIOR WALL SECTION

A7.1\_DET\_12  
1/2"=1'-0"

12

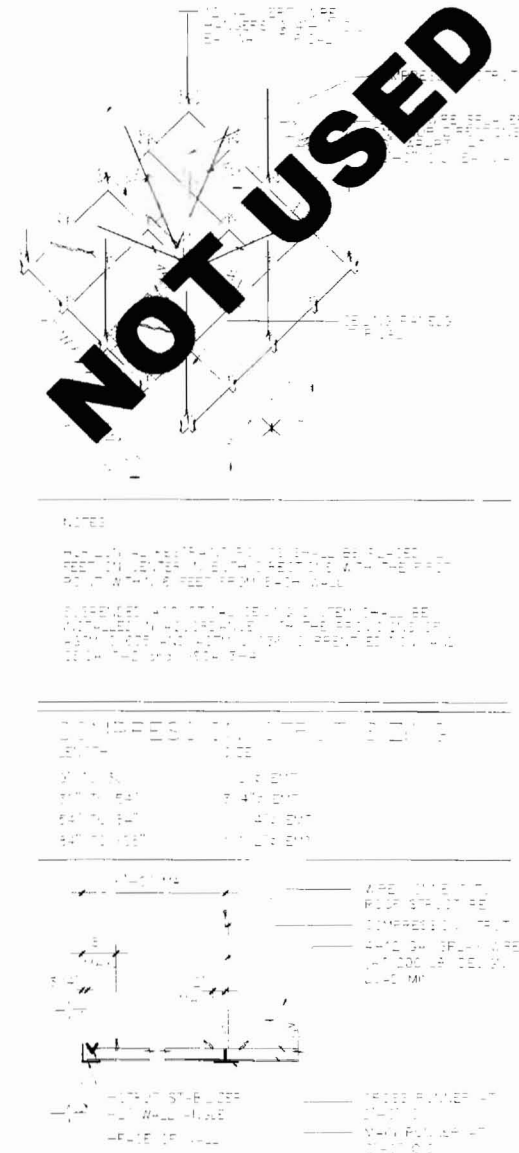
SEISMIC ISOLATION JOINT



A7.1\_DET\_08  
3"=1'-0"

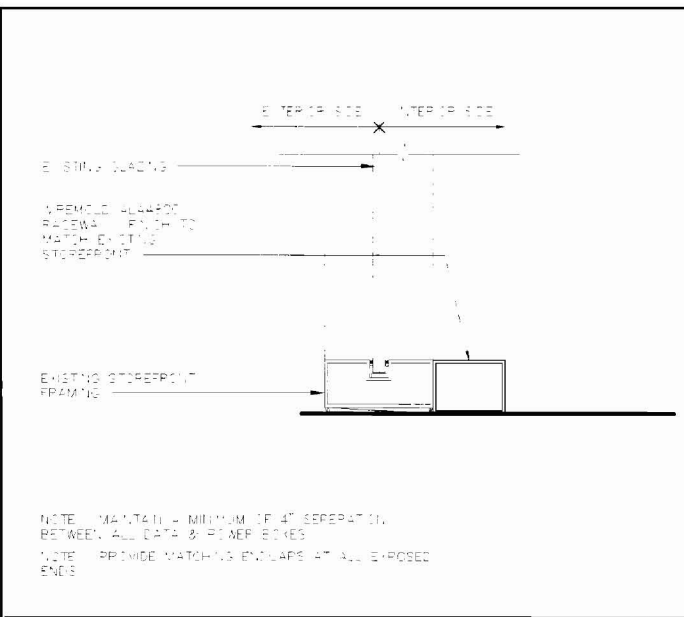
8

EXPANSION JOINT

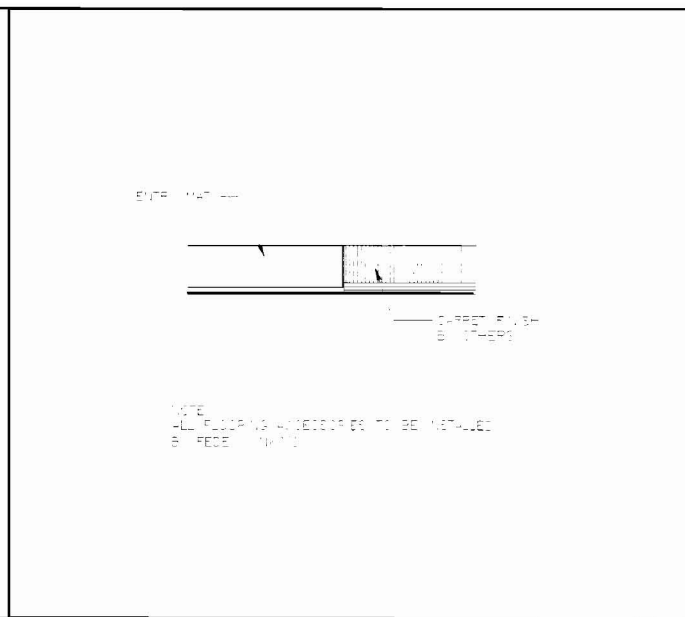


SEISMIC CEILING BRACING

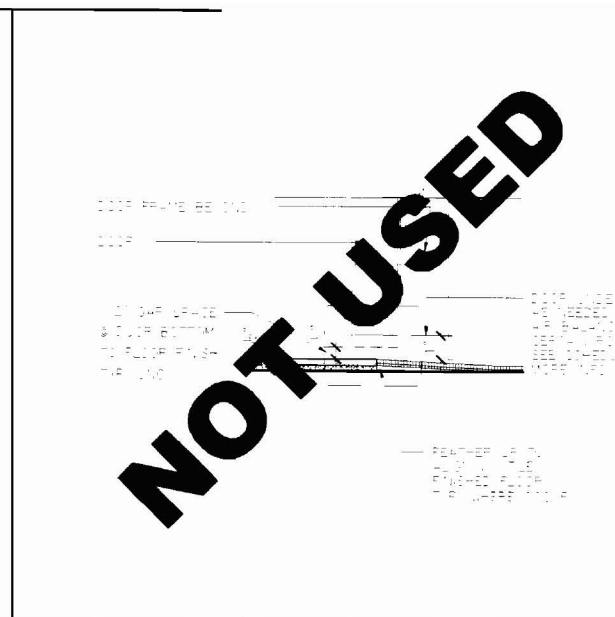
A7.1\_DET\_0  
1/2"=1'-0"



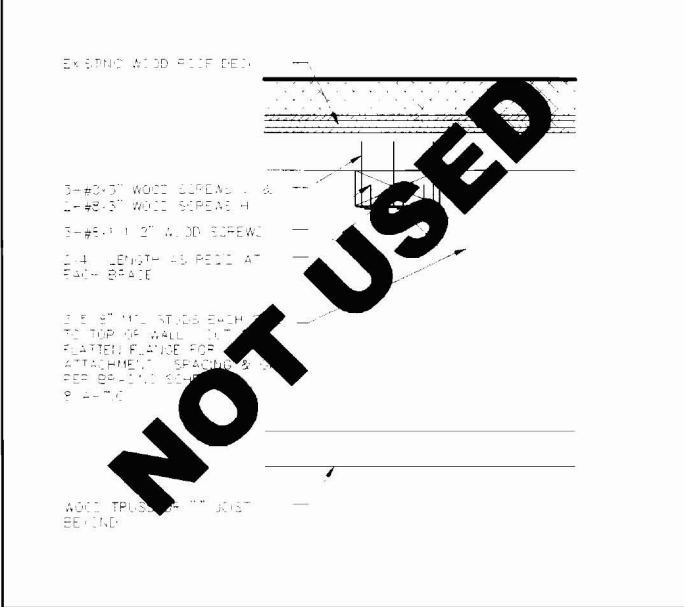
**ELECTRICAL RACEWAY** A8.0\_DET\_10 10  
3"=1'-0"



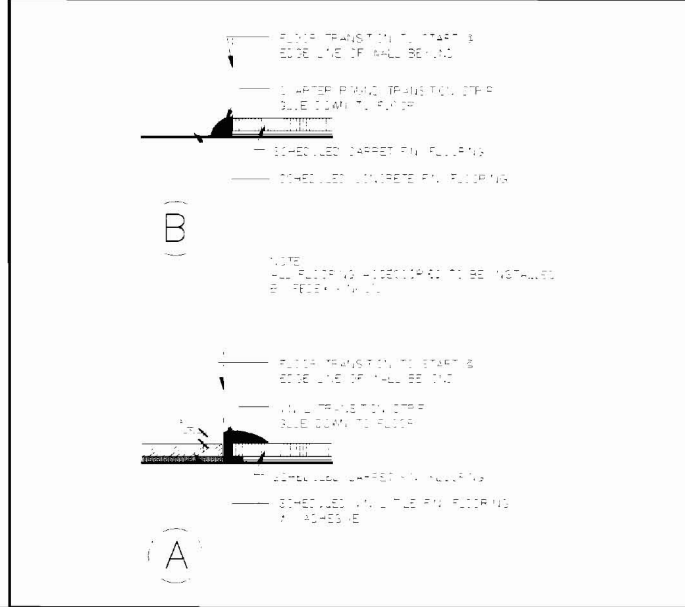
**FLOOR TRANSITION** A8.0\_DET\_07 7  
FULL SCALE



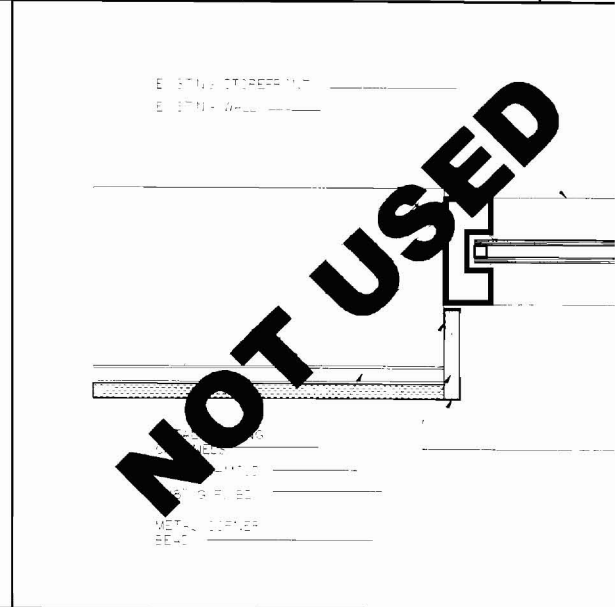
**DOOR SILL** A8.0\_DET\_07 7  
3"=1'-0"



**WALL BRACE** A8.0\_DET\_11 11  
3"=1'-0"



**FLOOR TRANSITION** A8.0\_DET\_08 8  
6"=1'-0"

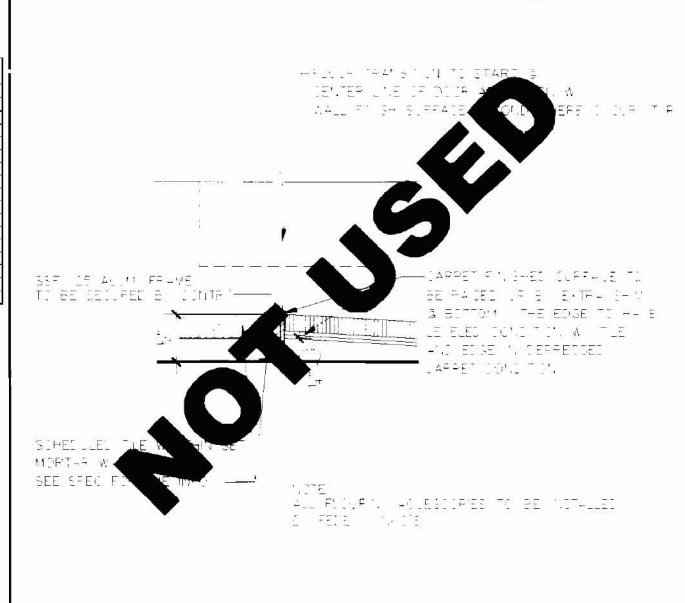


**WINDOW JAMB** A8.0\_DET\_08 8  
3"=1'-0"

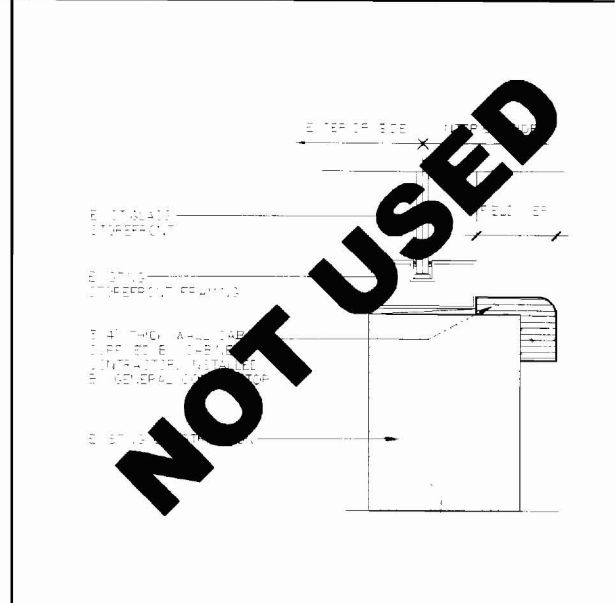
Stud Size (in)	3 5/8"				5"				6"				12" Stud Spacing		16" Stud Spacing		
	GA	26	25	22	20	25	22	20	25	22	20	3 5/8 in 25 Ga.	3 5/8 in 20 Ga.	3 5/8 in 25 Ga.	3 5/8 in 20 Ga.		
Resisting Moment (ft-k)	2187	2243	3785	4213	3978	7486	8625										
h (ft)	Stud Spacing (in)																
8	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
9	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
10	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
11	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
12	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
13	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
14	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
15	12	12	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
16	12	12	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
17	12	12	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
18	N/A	N/A	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
19	N/A	N/A	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
20	N/A	N/A	12	16	16	16	16	16	16	16	16	16	16	16	16	16	16
25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16	16	16	16	16	16	16
30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	36	N/A	32	32	32

Notes: 1. Minimum and maximum stud spacings are set to be 12" and 18" o.c.  
2. Bracing spacing is based on 16" increments with minimum of 24" o.c. and maximum of 48" o.c.  
3. For Site Class E with S<sub>w</sub> = 1.25g or Site Class F, please refer to IBC 2000 Table 1815.1.2(1) for additional details. These two categories are outside the scope of this program.  
4. The stud spacing table only applies to the following products:  
Distributed Systems, DWT 22 Ga, STN-25 Ga, STS-20 Ga  
CSI Solid Joist System Incorporated, 600DWS25, 400DWS25, 358DWS25, 306DWS25, 264DWS25, 222DWS25, 180DWS25, 138DWS25, 96DWS25, 54DWS25  
Distributed Systems, DWS 3 5/8 x 25, DWS 3 5/8 x 22, DWS 3 5/8 x 20, DWS 4 x 25, DWS 4 x 22, DWS 4 x 20, DWS 6 x 25, DWS 6 x 22, DWS 6 x 20  
Steel Joist Framing Systems, DWT 3 5/8 x 25 x1, DWT 3 5/8 x 22 x1, DWT 3 5/8 x 20 x1, DWT 4 x 25 x1, DWT 4 x 20 x1, DWT 6 x 25 x1, DWT 6 x 22 x1, DWT 6 x 20 x1  
Steel Joist Framing Systems, DWT 3 5/8 x 26 x1-1/4, DWT 3 5/8 x 22 x1-1/4, DWT 3 5/8 x 20 x1-1/4, DWT 4 x 26 x1-1/4, DWT 4 x 22 x1-1/4, DWT 4 x 20 x1-1/4  
Steel Joist Framing Systems, DWT 6 x 25 x1-1/4, DWT 6 x 22 x1-1/4, DWT 6 x 20 x1-1/4  
Joist Inlay, DWS 3 5/8 x 25 Ga, 3 5/8 x 22 Ga, 3 5/8 x 20 Ga, 4" 25 Ga, 4" 22 Ga, 4" 20 Ga, 6" 25 Ga, 6" 22 Ga, 6" 20 Ga  
5. The bracing spacing table only applies if the following products are used as the braced connector of the wall:  
Verchio Series SLD 25 Ga and 20 Ga

**STUD SPACING SCHEDULE** A8.0\_DET\_12 12  
N.T.S.



**FLOOR TRANSITION** A8.0\_DET\_09 9  
FULL SCALE



**WINDOW SILL** A8.0\_DET\_09 9  
3"=1'-0"

**NOT USED**

**NOT USED**

**NOT USED**

**NOT USED**

# DOOR HARDWARE SCHEDULE

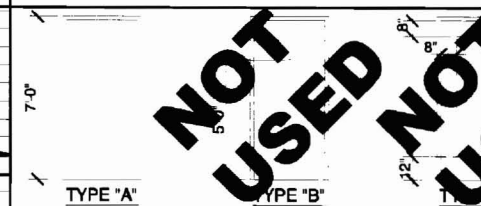
# DOOR SCHEDULE

ITEM	MANUFACTURER	MODEL NO.	FINISH	DESCRIPTION
<b>SET A - SINGLE 48" W EXTERIOR DOOR - NON-RATED</b>				
3 BUTT HINGES	HAGER	BB1199 NRP 4.5" X 4.5" 32D		
1 EXIT DEVICE (W/ALARM)	VAN DUPRIN	2670		BATTERY OPERATED ALARM
1 CLOSER	NORTON	UNI-H8501 X AL		
1 INSIDE CYLINDER (OPTION)	SCHLAGE	20-001C		TURNS ALARM OFF/ON
1 OUTSIDE CYLINDER (OPTION)	SCHLAGE	20-022C		
1 VIEWER	ROCKWOOD	822		
1 THRESHOLD	REESE	S204A		
1 DOOR SWEEP	REESE	323C		
1 SET WEATHERSTRIP PRE-INSTL'D ON FRAME	REESE	789A		
1 LOCK PLATE	ROCKWOOD	K1050 10" X 48" X 0.50" X 32D		
<b>SET B - SINGLE 36" W EXTERIOR DOOR - RATED</b>				
3 BUTT HINGES	HAGER	BB1191 NRP 4.5" X 4.5" 32D		
1 EXIT DEVICE (W/ALARM)	DETEX	VF 40 X EB		BATTERY OPERATED ALARM
1 CLOSER	NORTON	UNI-8501 X AL		
1 INSIDE CYLINDER (OPTION)	SCHLAGE	20-001C		TURNS ALARM OFF/ON
1 OUTSIDE CYLINDER (OPTION)	SCHLAGE	20-022C		
1 VIEWER	ROCKWOOD	822		
1 THRESHOLD	REESE	S204A		
1 DOOR SWEEP	REESE	323C		
1 SET WEATHERSTRIP PRE-INSTL'D ON FRAME	REESE	789A		
1 LOCK PLATE	ROCKWOOD	K1050 10" X 34" X 0.50" X 32D		
<b>SET C - SINGLE 36" W EXTERIOR DOORS - NON-RATED</b>				
3 BUTT HINGES	HAGER	BB1191 NRP 4.5" X 4.5" 32D		
1 EXIT DEVICE (W/ALARM)	VAN DUPRIN	2670		BATTERY OPERATED ALARM
1 CLOSER	NORTON	UNI-H8501 X AL		
1 INSIDE CYLINDER (OPTION)	SCHLAGE	20-001C		TURNS ALARM OFF/ON
1 OUTSIDE CYLINDER (OPTION)	SCHLAGE	20-022C		
1 VIEWER	ROCKWOOD	822		
1 THRESHOLD	REESE	S204A		
1 DOOR SWEEP	REESE	323C		
1 SET WEATHERSTRIP PRE-INSTL'D ON FRAME	REESE	789A		
1 LOCK PLATE	ROCKWOOD	K1050 10" X 34" X 0.50" X 32D		
<b>SET D - SINGLE INTERIOR DOOR - NON-RATED</b>				
3 BUTT HINGES	HAGER	BB1279 4.5" X 4.5" 28D		
1 OFFICE LOCK	SCHLAGE	AL63PD JUP 626		
2 KICKPLATES	ROCKWOOD	K1050 10" X 34" X 0.50" X 32D		
3 SILENCERS	ROCKWOOD	608		
1 WALL STOP	ROCKWOOD	409 32D		
<b>SET E - PAIR INTERIOR DOORS - NON-RATED</b>				
6 BUTT HINGES	HAGER	BB1279 4.5" X 4.5" 28D		
1 OFFICE LOCK	SCHLAGE	AL63PD JUP 626		
1 AUTOMATIC FLUSH BOLT	ROCKWOOD	1842		
4 KICKPLATES	ROCKWOOD	K1050 10" X 34" X 0.50" X 32D		
6 SILENCERS	ROCKWOOD	608		
2 WALL STOPS	ROCKWOOD	409 32D		
1 PERMANENT CYLINDER CORE	LORI	207 28D		
<b>SET F - SINGLE CASH OFFICE &amp; CPC DOOR</b>				
3 BUTT HINGES	HAGER	BB1279 4.5" X 4.5" 28D		
1 KEYPAD LOCK	SCHLAGE	MPC COBRA 28D		
1 CLOSER	NORTON	P8501 X AL		
2 KICKPLATES	ROCKWOOD	K1050 10" X 34" X 0.50" X 32D		
1 VIEWER	ROCKWOOD	822		
3 SILENCERS	ROCKWOOD	608		
1 WALL STOP	ROCKWOOD	409 32D		
1 PERMANENT CYLINDER CORE	LORI	207 28D		
<b>SET G - SINGLE TOILET ROOM DOOR - SINGLE OCCUPANCY</b>				
3 BUTT HINGES	HAGER	BB1279 4.5" X 4.5" 28D		
1 PRIVACY LOCK	SCHLAGE	AL40PD SAT 826		
1 CLOSER	NORTON	P8501 X AL		
2 KICKPLATES	ROCKWOOD	K1050 10" X 34" X 0.50" X 32D		
3 SILENCERS	ROCKWOOD	608		
1 WALL STOP	ROCKWOOD	409 32D		
1 ADA TACTILE SIGN "MEN"	DONJO	HS907001		MEN'S ONLY ALL LOCATIONS
1 ADA TACTILE SIGN "WOMEN"	DONJO	HS907005		WOMEN'S ONLY ALL LOCATIONS
1 ADA TACTILE SIGN "UNISEX"	DONJO	HS9070032		UNISEX ONLY ALL LOCATIONS
1 CA TITLE 24 TACTILE SIGN "MEN"	DONJO	CHS1		CA MEN'S ONLY CA ONLY
1 CA TITLE 24 TACTILE SIGN "WOMEN"	DONJO	CHS2		CA WOMEN'S ONLY CA ONLY
1 CA TITLE 24 TACTILE SIGN "UNISEX"	DONJO	CHS3		CA UNISEX ONLY CA ONLY
<b>SET H - SINGLE TOILET ROOM DOOR - MULTIPLE OCCUPANCY</b>				
3 BUTT HINGES	HAGER	BB1279 4.5" X 4.5" 28D		
1 PUSH PLATE	ROCKWOOD	70C 4 X 16 32D		
1 PULL PLATE	ROCKWOOD	122 X 70C 4 X 16 32D		
1 CLOSER	NORTON	P8301 X AL		
2 KICKPLATES	ROCKWOOD	K1050 10" X 34" X 0.50" X 32D		
3 SILENCERS	ROCKWOOD	608		
1 WALL STOP	ROCKWOOD	409 32D		
1 ADA TACTILE SIGN "MEN"	DONJO	HS907001		MEN'S ONLY ALL LOCATIONS
1 ADA TACTILE SIGN "WOMEN"	DONJO	HS907005		WOMEN'S ONLY ALL LOCATIONS
1 CA TITLE 24 TACTILE SIGN "MEN"	DONJO	CHS1		CA MEN'S ONLY CA ONLY
1 CA TITLE 24 TACTILE SIGN "WOMEN"	DONJO	CHS2		CA WOMEN'S ONLY CA ONLY
<b>SET J - PROVIDE NEW CORES, CYLINDERS, AND KEYS TO MATCH KINKO'S KEYING STANDARDS ON EXISTING DOORS. RE: SPECIFICATION SECTION 08710.</b>				
<b>SET K - DOOR HARDWARE BY DOOR MANUFACTURER TO MATCH STOREFRONT. CORES AND CYLINDERS TO MATCH KINKO'S STANDARDS.</b>				
<b>SET L - SPECIAL HARDWARE FOR BI-PARTING DOORS. SEE SPECS.</b>				

MARK	DOOR TO	TYPE	MATERIAL	HD
100	ENTRY	D	ALUM/GL	J
103	UNISEX	A	HM	G
101	RETAIL AREA	EMBT	EMBT	EM
104	EXTERIOR FROM WGR STORAGE	D	HM	A
107	WOMENS	A	GGWB	G
108	MENS	A	GGWB	G

- NOTE 1. SEE A1.0 FOR DELINEATION OF BLINDS  
 NOTE 2. PAINT INTERIOR SIDE OF DOOR & FRAME ONLY  
 NOTE 3. REUSE EXISTING CLOSER AND HINGES.  
 NOTE 4. EXISTING DOOR & FRAME.  
 NOTE 5. MATCH FINISH OF EXISTING STOREFRONT SYSTEM.  
 \*\* CARPET IS CONTINUOUS THROUGH OPENING

## DOOR TYPES

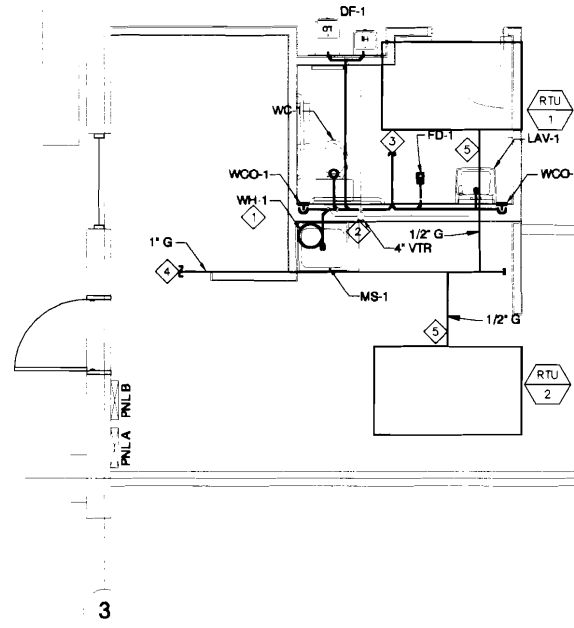


- NOTE 1. ALL HARDWARE SHALL BE BRUSHED ALUMINUM.  
 NOTE 2. ON DOORS INSTALLED AT 1/2" OFFSET LANDINGS, PROVIDE DOOR WIDTH  
 NOTE 3. ENTRY/EXIT DOORS TO HAVE SIGN THIS DOOR TO REMAIN U  
 NOTE 4. DOOR HARDWARE SHALL BE OPERABLE WITHOUT THE USE (THE SIDE OF EGRESS.  
 NOTE 5. DOOR HARDWARE MUST BE OPERABLE BY A SINGLE HAND W TWISTING  
 NOTE 6. DOOR OPENING FORCE SHALL NOT EXCEED 5 LBS AND CLO 3 SECONDS OR MORE TO MOVE TO A POINT 3" FROM THE LATCH WHE  
 NOTE 7. ALL DOOR OPERATING HARDWARE SHALL BE MOUNTED AT 3  
 NOTE 8. RE 1/A3.4 FOR TOILET ROOM SIGN MOUNTING INFORMATION.

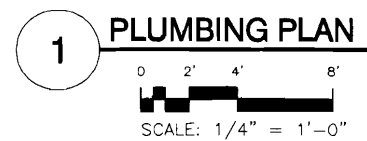




ADJACENT LEASE SPACE  
NOT PART OF WORK



ADJACENT LEASE SPACE  
NOT PART OF WORK



NOTE: SEE SYMBOLS AND ABBREVIATIONS LEGEND ON SHEET M2.0

SYMBOLS					
PLUMBING					
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SANITARY DRAIN ABOVEGROUND		GAS COCK		WC
	SANITARY DRAIN BELOWGROUND		GLOBE VALVE		WC
	VENT LINE		CHECK VALVE		UR
	STORM DRAIN ABOVEGROUND		PRESSURE RELIEF VALVE		LAV
	STORM DRAIN BELOWGROUND		STOP AND WASTE VALVE		KS
	COLD WATER (CW)		STOP AND WASTE VALVE ON RISE		SS
	HOT WATER (HW)		MIXING VALVE		DF
	HOT WATER CIRCULATING (HWC)		PRESSURE REGULATING VALVE (PRV)		EW
	GAS LINE		HOSE BIBB		C
	UNION		WALL HYDRANT		R
	STRAINER		FIRE HYDRANT		
	BALANCING COCK		MANHOLE		
	RUNNING TRAP		VALVE IN RISE		
	CLEAN OUT		DRAIN AND MARK		
	GRADE CLEAN OUT		ROOF DRAIN		
	N.I.T.C. NOT IN THIS CONTRACT		DOWN SPOUT		
	VTR VENT THROUGH ROOF		VITRIFIED CLAY PIPE		
	VACUUM BREAKER		CAST IRON		
	BALL VALVE		INVERT ELEVATION		

NOTE:  
ALL ROOF WORK SHALL BE ACCOMPLISHED BY A  
LANDLORD'S ROOFING CONTRACTOR TO  
MAINTAIN ROOFING WARRANTY. COORDINATE  
WITH LANDLORD.

**PLUMBING NOTES:**

- 1 MOUNT WATER HEATER WH-1 TO WALL. SHEET P-2 FOR DETAILS. PROVIDE ADDITIONAL SUPPORT. COORDINATE INSTALLATION WITH LANDLORD.
- 2 4" VENT THROUGH ROOF. SEE DETAIL SHEET P-2 FOR DETAILS. COORDINATE WITH LANDLORD.
- 3 CONNECT NEW 4" SANITARY TO EXISTING SANITARY. PROVIDE ADDITIONAL SUPPORT. COORDINATE WITH LANDLORD.
- 4 EXTEND 1" GAS PIPE TO GAS METER. PROVIDE ADDITIONAL SUPPORT. COORDINATE WITH LANDLORD.
- 5 FURNISH AND INSTALL GAS PRESSURE REGULATOR, SHUTOFF COCK, AND GAS PIPING TO UNIT CONNECTION SINCE CONTRACTOR TO MAINTAIN ROOF WARRANTY.

**WATER CLOSETS (WC-1) HANDICAPPED****FIXTURE:**

AMERICAN STANDARD #2377.100, "CADET 17" H EL 1.6", PRESSURE ASSIST (1.6 GPF), ELONGATED BOWL, WITH TRIP LEVER, STOP VALVE AND FLEXIBLE SUPPLY LINE. FLOOR MOUNTED, BOTTOM OUTLET, 32" PROJECTION IN FROM WALL, 12" TO CENTERLINE OF OUTLET FROM FINISHED WALL. WATER SURFACE AREA-SEAL-BALLPASS AND OPERATION MEETS OR EXCEEDS ANSI A112.19.2M CODE REQUIREMENTS.

**SEAT:**

PRESSALIT #0042075.020 "ROYAL" ELONGATED OPEN FRONT SEAT, NO COVER. WHITE.

**LAVATORIES (LAV-1) TENANT HANDICAPPED****FIXTURE:**

AMERICAN STANDARD #0124.131 "COMRADE" WALL HUNG LAVATORY, VITREOUS CHINA LAVATORY, FAUCET LEDGE, REAR OVERFLOW, 4" CENTERS ON FAUCET HOLES, 20" X 18-1/4" OVERALL DIMENSIONS. "D" SHAPED BOWL 15" X 10 7/8" X 6-1/4" DEEP. SELF DRAINING DECK AREA WITH CONCEALED ARM SUPPORT.

**TRIM:**

DELTA #500 SINGLE HANDLE MIXING FAUCETS, 4" CENTERSET EXPOSED DECK MOUNTING, AERATOR, LEVER TYPE HANDLE. CONTROL SHALL BE ROTATING BALL TYPE w/ REPLACEABLE NON-METALLIC SEATS OPERATING IN STAINLESS STEEL LINED SOCKETS, CONTROL HANDLE TO ALWAYS RETURN TO NEUTRAL POSITION WHEN VALVE IS TURNED OFF. ALL EXPOSED SURFACES TO BE CHROME PLATED.

**SUPPLIES:**

3/8" CHROME PLATED ANGLED STOP w/ WHEEL HANDLE, 3/8" CHROME PLATED FLEXIBLE BRASS RISER, INSULATE ALL EXPOSED WATER LINES AND VALVES.

**WASTE:**

AMERICAN STANDARD #7723.018 GRID DRAIN FOR WHEELCHAIR LAVATORY, 4-1/2" OFFSET, AND 1-1/4" TAILPIECE, 1-1/4" 17 GAUGE CHROME PLATED ADJUSTABLE BRASS P-TRAP WITH CLEANOUT PLUG RUN PARALLEL AND AS TIGHT TO WALL AS POSSIBLE, 1-1/4" CHROME PLATED BRASS WASTE TO WALL, INSULATE ALL EXPOSED WASTE LINES.

**CARRIER:**

ZURN COMPANY Z-1231 SERIES, FLOOR-MOUNT, SINGLE LAVATORY CARRIER w/ CONCEALED ARMS, LEVELING AND SECURING SCREWS, STRUCTURAL UPRIGHTS AND BLOCK BASES, SECURED TO FLOOR w/ 1/2" BOLTS AND ANCHORS APPROPRIATE MODEL TO SUIT WALL CONSTRUCTION AND TYPE OF FIXTURE PURCHASED.

**ACCESSORIES:**

TRUEBRO "LAV-GUARD" UNDERSINK PROTECTIVE PIPE COVER MODEL #103 WITH ONE P-TRAP COVER, TWO ANGLE VALVE COVERS, TWO SUPPLY TUBE COVERS, ONE 5" OFFSET TAILPIECE WHEELCHAIR STRAINER COVER, WHITE. COVER SHALL BE SECURED WITH SNAP-CLIP FLUSH REUSABLE FASTENERS, ANGLE STOP SHALL HAVE LOCK-LID LOCKING ACCESS COVER.

**DRINKING FOUNTAIN (DF-1)****FIXTURE:**

OASIS - MODEL "PRBACSL", CONTOUR BI-LEVEL, WALL MOUNTED, COLOR: SANDSTONE. FRONT AND SIDE PUSH PADS, SPLASH RESISTANT BASINS, FLEXIBLE BUBBLER GUARDS. 1 1/4" NPT TRAPS AND 1/2" WATER LINE. (NOTE: NO ELECTRICAL POWER REQUIRED FOR DRINKING FOUNTAIN).

**TANK WATER HEATER (WH-1)****WALL:**

RUUD MODEL NO. PEP6-1, SIX (6) GALLON CAPACITY, MIDGET MODEL 2.0 KW @ 208 VOLT - 1 PH.

**WALL CLEANOUTS (WCO-1)****WALL:**

ZURN COMPANY #Z-1446, COATED CAST IRON CLEANOUT TEE, HUB AND SPIGOT CONNECTION, BRONZE PLUG.

**COVER:**

ROUND STAINLESS STEEL WALL ACCESS COVER WITH SCREW.

**MOP SINK (MS-1)****FIXTURE:**

FIAT MODEL MSB-2424, 10" HIGH WALLS, ONE PIECE, WHITE MOP SERVICE BASIN WITH 1" WIDE SHOULDERS AND FACTORY INSTALLED 3" STAINLESS STEEL DRAIN BODY, STAINLESS STEEL COMBINATION DOME STRAINER AND LINT BASKET. RESISTANT TO WEAR, MOISTURE, PERSPIRATION, HEAT AND SUNLIGHT.

**TRIM:**

MODEL 830-AA ROUGH CROME FAUCET SET WITH VACUUM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL BRACE, PAIL HOOK AND 3/4" HOSE THREAD SPOUT. BODY INLETS 8" CENTER TO CENTER, FOUR ARM HANDLES.

**ACCESSORIES:**

PROVIDE WITH MODEL 889-CC STAINLESS STEEL MOP BRACKET, AND MODEL 832-AA HOSE AND HOSE BRACKET.

**WASTE:**

3" WASTE AND CAST IRON P-TRAP UNDER FLOOR.

**FLOOR DRAIN (FD-1)****FIXTURE:**

ZURN COMPANY SERIES ZN-415, COATED CAST IRON FLOOR DRAIN, WITH 1/2" PRIMER TAP, TWO-PIECE BODY, DOUBLE DRAINAGE FLANGE, INVERTIBLE NON-PUNCTURING FLASHING COLLAR, WEEPHOLES, BOTTOM OUTLET INSIDE CAULK CONNECTION, ADJUSTABLE ROUND SUPER-FLO STRAINER, FLASHING CLAMP WITH 24" X 24" 4 LB. LEAD FLASHING FOR FLOOR DRAINS INSTALLED ABOVE SLAB ON GRADE. ADJUSTABLE SQUARE "TYPE S" STRAINER FOR ALL DRAINS LOCATED IN TILED AREAS.

**STRAINER:**

ZURN COMPANY TYPE C, 5" DIAMETER NICKEL BRONZE FINISH.

**WASTE:**

SIZE AS NOTED ON DRAWINGS, CAST IRON P-TRAP UNDER FLOOR.

**TRAP PRIMER (TP-1)****FIXTURE:**

J.R. SMITH MODEL 2699 TRAP PRIMING DEVICE.

**MOUNTING HEIGHT:**

MINIMUM MOUNTING HEIGHT OF 12" ABOVE FINISHED FLOOR WHEN FLOOR DRAIN SERVED IS 20 FEET OR LESS DEVELOPED LENGTH FROM UNIT, MOUNT AN ADDITIONAL 12" HIGHER FOR EACH 20 FEET OF LENGTH

**NOTE:**

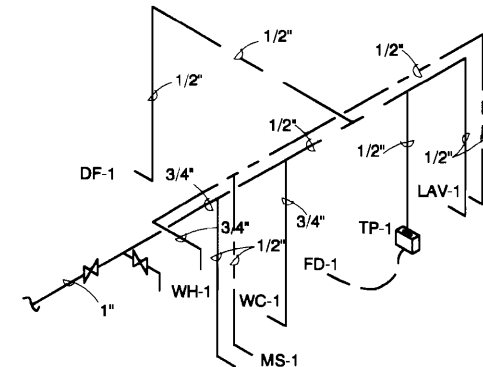
INSTALL ALL PLUMBING FIXTURES TO BE FULLY ACCESSIBLE TO INDIVIDUALS WITH DISABILITIES IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT OF 1990 (ARCHITECTURAL GUIDELINES). FIXTURES AND THEIR INSTALLATION SHALL ALSO COMPLY WITH AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) PUBLICATION A117.1 - 'PROVIDING ACCESSIBILITY AND USABILITY FOR PHYSICALLY HANDICAPPED PEOPLE' AND/OR GOVERNING CODES. - ALL PLUMBING FIXTURES EQUIPMENT, TRIM, & FITTINGS SHALL COMPLY WITH LOCAL, STATE, AND FEDERAL REGULATIONS AND CODES, INCLUDING, BUT NOT LIMITED TO, WATER AND ENERGY CONSERVATION CODES. THE SCHEDULED AND/OR SPECIFIED PLUMBING FIXTURES AND EQUIPMENT REPRESENT THE MINIMUM CRITERIA AND SHALL BE THE BASIS FOR THE CONTRACTOR'S BASE BID. IF THE SCHEDULED OR SPECIFIED FIXTURES OR EQUIPMENT DO NOT COMPLY WITH GOVERNING CODES OR REGULATIONS IN ALL RESPECTS, THE CONTRACTOR SHALL PROVIDE AN ALTERNATE BID FOR COMPLYING FIXTURES, EQUIPMENT, TRIM, OR FITTINGS. THE ABSENCE OF AN ALTERNATE BID SHALL BE CONSTRUED TO MEAN THAT THE CONTRACTOR'S BID INCLUDES ALL COSTS NECESSARY TO MEET ALL REGULATIONS & CODES.

ALL PIPING BELOW LAVATORY SHALL BE INSULATED WITH TRUEBRO LAV GUARDS AND CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORY.

**PLUMBING NOTES:**

1. 1/2" TYPE "K" FLEXIBLE COPPER FROM AUTOMATIC TRAP PRIMER (TP-1) TO FLOOR DRAIN. MOUNT AUTOMATIC TRAP PRIMER ONE FOOT (1'-0") MINIMUM ABOVE FLOOD RIM OF FLOOR DRAIN. NO FITTINGS OR SPLICES BELOW GRADE.

2. CONNECT NEW 1" DOM. WATER TO EXISTING VALVED STUB-IN. FIELD VERIFY SIZE AND LOCATION PRIOR TO START OF CONSTRUCTION.

**DOMESTIC WATER RISER DIAGRAM**

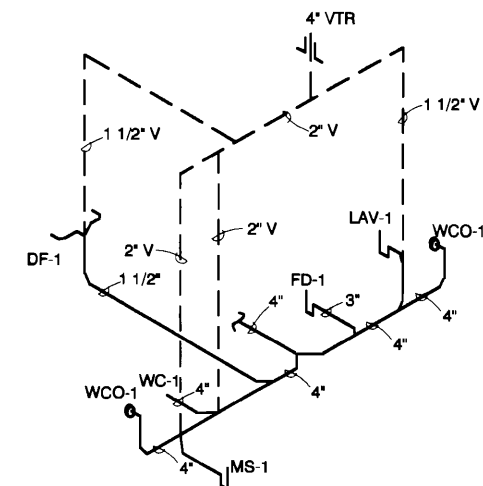
NTS

2

**PLUMBING NOTES:**

1. SEE NOTES SHEET P-1.

2. CONNECT NEW 4" SAN. TO EXISTING. FIELD VERIFY LOCATION PRIOR TO START OF CONSTRUCTION.

**SANITARY RISER DIAGRAM**

NTS

3

T & P RELIEF VALVE (FACTORY INSTALLED) WITH FULL SIZE DRAIN LINE DOWN TIGHT TO WALL. TERMINATE OVER 6" AB. DRAIN PAN.

DIELECTRIC UNION  
VACUUM BREAKER  
PROVIDE HW EXPANSION TANK AMTROL #S7-12 WHERE REQUIRED BY CODE.  
APPROVED DRAIN PAN SET ON PLYWOOD PLATFORM.  
3/4" PLYWOOD  
1" DRAIN LINE FROM DRAIN PAN DOWN TIGHT TO WALL. TERMINATE IN MS-1. PROVIDE AIR GAP AS REQUIRED BY CODE.

NOTE:  
PROVIDE ADEQUATE WALL BRACING TO SUPPORT WATER HEATER & PLATFORM

NOTE:  
SET TEMP. @ 110°F

1 1/2" x 1 1/2" x 1/8" STEEL ANGLE FRAME OF ALL WELDED CONSTRUCTION PRIME AND PAINT WHITE. SECURE TO WALL WITH STEEL FASTENERS.

Section 15050 - Plumbing  
(See Plumbing drawings)

1.01 GENERAL

A. SCOPE

1. The General Requirements of DIVISION 1 govern the work in this Section.
2. Provide all labor, materials, tools and equipment necessary to complete the work, including installation of plumbing fixtures. All materials shall be new and be installed in a workmanlike manner in accordance with the drawings and specifications.
3. Provide excavation and backfill of all trenches incidental to the plumbing work as shown on the drawings. Backfill shall be compacted to 90%.
4. Provide a complete waste and sewer system from every fixture and location requiring same to City sewer line including connections to the sewer or private disposal system. Verify exact elevation and location. Include all necessary piping.
5. Provide a complete insulated water system from Water Dept. service, connection to each fixture, appliance, and location shown on drawings. Provide shut off valve prior to first take-off.
6. Provide a complete insulated hot water system from water heater to every fixture, appliance and location shown on drawings.
7. Provide a complete natural gas system from individual meters (meters installed by others) to rooftop units, and connection thereto.
8. Provide all plumbing fixtures, water pressure regulators and miscellaneous equipment required for a complete installation.
9. Provide all backing, supports and carriers for fixtures.
10. Provide all cutting and patching of the construction work, rough finish and trim, which may be required for the installation of equipment. All patching shall match all surrounding work.
11. Contractor shall make all plumbing and piping connections equipment specified to be furnished by Owner or under other sections of the specifications including final connections to air conditioning and heating equipment.
12. Contractor shall provide sufficient approved water hammer arrestors (Wade "SHOCK STOP", or equivalent) to prevent water hammer.
13. Contractor shall thoroughly clean all fixtures, equipment and piping after installation.
14. Contractor shall provide approved access doors in framed holes for all valves, traps which must be located in inaccessible locations.
15. Contractor shall provide cut-out data for all sinks and lavatories to all other related trades.
16. Contractor shall obtain and pay for all required permits, inspections and certificates in connection with his work and make all arrangements with utility companies for service and connections and pay all fees, charges permits and meter charges.

2.01 MATERIALS

A. DRAIN, WASTE AND VENT

1. Service weight, cast iron bell and spigot pipe and fittings. No-hub service weight pipe and fittings may be used above grade when permitted by local code.
2. Schedule 40, galvanized steel pipe and banded malleable iron screw fittings.
3. Schedule 40 and 80 or PVC or ABS piping with DWV pattern fittings may be used where allowed by local code. Foam core PVC piping will not be approved.

B. HOT AND COLD WATER

1. Above grade.
  - a. Type "L" copper tubing, hard temper, cold drawn with wrought copper lead free sweat fittings. Connections to fixtures and equipment shall be made with 85% red brass IPS size pipe or compression angle stops. Provide dielectric unions where connecting piping of dissimilar materials.
2. Below grade.
  - a. Type "K" copper tubing, hard or soft temper, with wrought copper lead free sweat fittings. Note: No fittings shall be permitted below grade inside building.

3.01 EXECUTION

A. GENERAL REQUIREMENTS

1. Contractor shall examine the premises and satisfy himself of existing conditions under which he will be obligated to operate in performing his part of the work that in any manner affect the work under the contract. The contractor shall cooperate with other trades so that the installation of all equipment may be properly coordinated.
2. All equipment furnished shall fit the space available, with connection, etc. in the required locations and with adequate space for operation and service.

3. All piping, except fixture supplies, shall be concealed, concealed, cut accurately to exact measurements taken at the building and worked carefully into place without forcing or springing. Changes in direction of all piping shall be made with fittings. Changes in pipe size shall be made with reducing fittings.
4. No water or drain lines shall be permitted over or electrical or telecommunication panels or telecommunication rooms.
5. Provide protective metal cover plates over studs and joists where pipes penetrate close to edge of stud or joist.
6. Provide chrome plated escutcheons where pipes pass through floors, walls and ceilings in finished spaces.
7. All piping shall be installed with adequate provision for expansion and contraction using swing joints, pipe clamps, anchors and expansion joints. Fittings shall be so spaced that they will not interfere with sliding of pipe on supports.
8. All openings in the roof shall be flashed watertight per the instruction of the Landlord's roofing contractor to maintain

B. DRAIN, WASTE AND VENT

1. All waste piping shall be pitched a minimum of 1/4" per foot where possible. Piping greater than 4" diameter may be pitched at 1/8" per foot, only where required by existing conditions, subject to the approval of the authority having jurisdiction.
2. Drains and P-traps: 17 ga. C.P. Brass where exposed to view extending to wall. Nominal size of drain and trap shall not be smaller than the fixture outlet to which it is attached.
3. Vents shall extend not less than 12" through roof. They shall be gathered together where possible into one vent of equivalent area. Vents shall be flashed indicated on the drawings. All vents shall be a minimum of 10'-0" from any fresh air intakes, or greater if required by local code.
4. Cleanouts, same size as pipe, shall be installed in soil and waste lines at every change of direction and at every 100 feet of run whether shown on the drawings or not; and shall be accessible in all cases. When occurring in finished wall or floor, set flush with surrounding surface.
5. Cleanouts as a minimum shall be located so that all soil and waste lines within or under building are accessible for cleaning without passing through more than one ninety degree or two forty-five degree bends. Cleanout covers shall be set flush with floors and grade with exposed plastic nut at walls.

C. HOT AND COLD WATER

1. All water piping shall be pitched in direction of flow to allow for system draining. Install piping parallel to major building elements.
2. Install water main shut-off valves, Watts or approved equal, gate valve, above grade below pressure regulator.
3. Install accessible hot and cold water stops at all fixtures.
4. Install dielectric isolators where incompatible piping materials come in contact.
5. Install temperature and pressure relief valves as required by Code.
6. Install water pressure regulator, "Watts" or "Wilkins", where available utility pressure exceeds 80 psi.
7. Hose Bibbs: See Plumbing Fixture Schedule.

D. NATURAL GAS

1. Install natural gas piping as indicated on drawings and as required by local codes.
2. Install shut-off valves close to fixture and appliance connections and ahead union and dirt leg at rooftop units.
3. Unions shall be installed on both sides of all equipment and where required to facilitate removal of equipment.
4. Provide Maxitrol Model 325 pressure regulating valves at all gas appliances when distribution pressure is greater than 7" W.C.
5. Provide gas main shut-off valves, Norstrom Fig. 1014, or approved equal, with lever type handle, placed on house side of meters.
6. Paint all exterior piping including piping installed on roof with two coats or rust inhibiting exterior paint.
7. Support piping on roof per instruction of Landlord's roofing contractor to maintain roof warranty.

E. INSULATION

1. All water piping, horizontal and vertical shall be insulated with fiberglass pipe insulation with an all purpose vapor barrier jacket. Use minimum 1" insulation on water piping. All insulating materials shall have a maximum 25 flame spread rating and 50 smoke developed rating.
2. Approved insulation blocking shall be placed between sheet metal jacket and bottom of the pipe where jacket alone cannot prevent crushing. Insulation jacket or vapor barrier shall be sealed after installing blocking. (See hangers, supports and sleeves)

F. HANGERS, SUPPORTS AND SLEEVES

1. All drain, waste, vent, hot and cold water, and natural gas piping exposed, above grade and in furred areas, shall be supported in place with securely fastened solid pipe hangers not over 8'-0" apart and at each change in direction, (5'-0" on cast iron pipe).
2. Pipe hangers shall be installed around the outside of insulation with vapor barriers, and insulation shall be protected against crushing by sheet metal jacket or proper area and weight.
3. All water piping running through masonry or concrete floors or walls shall be isolated from the penetration with a sleeve as detailed on the drawings. Maintain the fire rating of all wall and floor penetrations by use of approved fire stop materials.
4. Sleeves through walls shall be cut so as to be flush with the finished surface of the wall in each case and shall be made watertight.

G. TESTING

1. Drain, waste and vent lines shall pass inspection under head of water by system with water to top of highest vent stack.
2. Water lines shall pass inspection of four (4) hours under 150 psi pressure. Before any use of system is made for domestic purposes, it shall be sterilized by slowly filling with water to which a sterilizing agent has been applied, at a rate giving 50 p.p.m. of chlorine, as determined by residual chlorine test at extremities of the line. After lines have been filled for a period of three hours, tests for residual chlorine shall show not less than 50 p.p.m. of residual chlorine after three (3) hours. The lines shall be flushed until all traces of chemical are removed.
3. Gas lines shall stand a pressure of 15 psi for a period of 15 minutes without perceptible drop.
4. All testing shall be performed by contractor at his own expense.

H. GUARANTEE

1. All materials furnished and installed under this contract shall be new and free from all defects in materials and workmanship and shall be guaranteed for a period of one (1) year from the date of acceptance of the Owner.

Section 15440 - Plumbing Fixtures (See plumbing drawings and schedule)

1.01 General

1. Wall hung fixtures shall be installed using carriers as specified with the fixtures.
2. The height of accessible water closets shall be a minimum of 17" and a maximum of 19" measured to the top of the toilet seat.
3. Provide 18" from the centerline of the water closet to the adjacent wall finish.
4. Toilet flush controls shall be operable with one (1) hand, and shall not require tight grasping, pinching, or twisting of the wrist. Controls for the flush valves shall be mounted on the wide side of the toilet areas no more than 44" above the floor. The force required to activate controls shall be no greater than five (5) lbs.
5. Where urinals are provided, at least one (1) shall have a clear space 30" wide by 48" long in front of the urinal.
6. Mount lavatories 2'-10" from the floor to the top of the lavatory. Insulate or cover all hot water and drain pipes under lavatory. No sharp or abrasive edges will be allowed under lavatory.
7. Lavatories shall be mounted with a clearance of at least 29" from the floor to the bottom of the apron with knee clearance under the front lip extending a minimum of 30" in width with 8" minimum depth at top.
8. Faucet controls and operating mechanisms shall be operable with one (1) hand and shall not require grasping, pinching, or twisting of the wrist. The force needed to activate controls shall not exceed five (5) lbs. for lever operated or 15 lbs. for push type.

Section 15500 - Fire Protection Systems (if required)

Note:

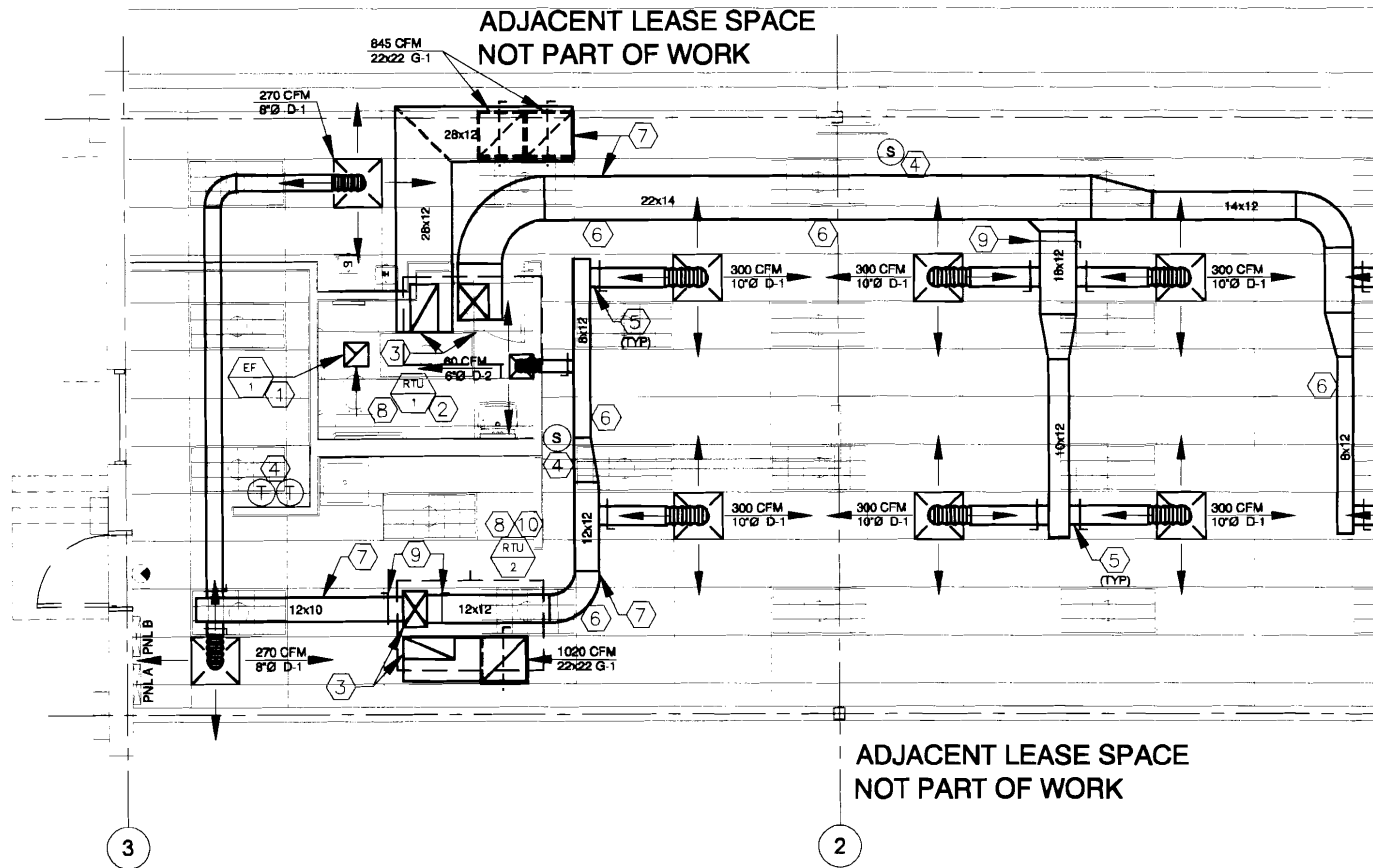
The sprinkler subcontractor shall be the "Professional Record" for the sprinkler system design.

1.01 GENERAL

A. SCOPE

1. Provide all labor, materials, and equipment for installation of a complete fire sprinkler system required by the local Fire Department and local codes and ordinances. Comply with all requirements of NFPA 13 and local authority having jurisdiction and all requirements of the Owner's insurance carrier.
2. The Contractor shall visit the site to become familiar with the existing conditions which will affect work prior to submitting his bid. No additional compensation shall be paid for items found during the course of the contract.
3. The sprinkler system shall be fed from a riser to the building sprinkler system supplied by Landlord. The area of sprinkler operation shall be determined by hydraulic calculations shall be the most hydraulically demanding area as per Factory Mutual Standards.
4. Water supply information shall be obtained from Landlord. Contractor shall verify all flow and pressure data.
5. Before starting any work, the contractor shall submit drawings to Kinko's Construction for approval of the local jurisdiction showing all materials and equipment. These drawings shall be complete every detail showing all sprinklers, valves, pipe and fittings, and miscellaneous related items work. All work shall be dimensioned to fit into available space, and coordinated with the ductwork, lighting equipment, structural members, etc.
6. Provide sprinkler protection in all soffits and overhangs as required by Code, local Fire Department, or other authorities having jurisdiction. Water curtains consisting of sprinkler heads on 6' center spacing at the front entry shall be installed as required by local authorities or by Landlord.
7. Sprinkler heads in all ceilings shall be semi recessed cup type with ceiling escutcheon to match color. Sprinkler heads shall be ceiling tile in type ceilings. Sprinkler heads which utilize "O" ring type seals shall not be allowed.

8. After completion, a hydrostatic test (200 psi) shall be provided. The test shall be performed prior to final connection to Landlord's system. Furnish hydraulic nameplate data at other signs as required.
9. All sprinkler work shall be scheduled in advance with Landlord. The sprinkler system shall be charged and operational whenever the contractor is off site.
10. The installation shall be fully guaranteed for workmanship and free from leakage for a period of one year after completion and acceptance of the system.
11. For modifications to existing sprinkler systems, raise, lower, relocate, and/or add to existing sprinkler heads as required for new ceiling partitions to comply with all local codes and ordinances. Provide and install fire sprinkler concealed attic spaces. Obtain approvals as permits as required by local fire prevention and local jurisdictions prior to commencing work.



**1 H.V.A.C. PLAN**

0 2' 4' 8'

SCALE: 1/4" = 1'-0"

NOTE: SEE SYMBOLS AND ABBREVIATIONS LEGEND ON SHEET M2.0

**NOTE:**  
ALL ROOF WORK SHALL BE ACCOMPLISHED BY A LANDLORDS ROOFING CONTRACTOR TO MAINTAIN ROOFING WARRANTY. COORDINATE WITH LANDLORD.

### KEYED NOTES

- ① TOILET EXHAUST DUCT UP TO ROOF. CONTRACTOR SHALL COORDINATE LOCATION EXHAUST PENETRATION WITH LANDLORD PRIOR TO INSTALLATION. EXHAUST VENT BE LOCATED A MINIMUM OF 10'-0" AWAY FROM ALL FRESH AIR INTAKES. CONTRACTOR COORDINATE LOCATION OF EXHAUST FAN PRIOR TO INSTALLATION.
- ② LANDLORD PROVIDED AND INSTALLED GAS FIRED ROOFTOP UNIT. CONTRACTOR SHALL COORDINATE LOCATION, SIZE AND BRAND OF UNIT PRIOR TO FABRICATION AND INSTALLATION OF SUPPLY AND RETURN AIR DUCTWORK.
- ③ SUPPLY AND RETURN AIR DUCTS UP TO UNIT ON ROOF. PROVIDE FLEXIBLE DUCT CONNECTORS AT ATTACHMENT TO UNIT.
- ④ PROVIDE THERMOSTAT: "HONEYWELL" "DEBONAIR". MOUNT ON MANAGERS OFFICE 148' A.F.F. PROVIDE REMOTE SENSOR AND LOCATED AS NOTED IN SALES AREA AT 5
- ⑤ SPIN IN FITTING WITH MANUAL DAMPER.
- ⑥ FIELD VERIFY CLEARANCE ABOVE CEILING PRIOR TO DUCTWORK FABRICATION. CONTACT ENGINEER IF THERE ARE CLEARANCE CONFLICTS WITH DUCT ROUTING. DUCTWORK MUST BE ROUTED AS TO AVOID LIGHTS DUE TO CLEARANCES.
- ⑦ NEW SUPPLY AND RETURN AIR DUCTWORK. CONTRACTOR SHALL INSTALL PER LATEST SMACNA STANDARDS. COORDINATE DUCTWORK LOCATION WITH ALL OTHER DISCIPLINES PRIOR TO INSTALLATION.
- ⑧ PROVIDE NEW 3/4" COPPER CONDENSATE PIPING AND TRAP. TERMINATE CONDENSATE AS REQUIRED BY LOCAL CODE AUTHORITY.
- ⑨ OPPOSING BLADE MANUAL VOLUME DAMPER.
- ⑩ CONTRACTOR PROVIDED AND INSTALLED GAS FIRED CARRIER ROOFTOP UNIT. CONTRACTOR SHALL COORDINATE BRAND, SIZE, AND LOCATION OF UNIT PRIOR TO ORDERING. CONTRACTOR SHALL COORDINATE INSTALLATION OF UNIT WITH LANDLORDS ROOFING CONTRACTOR PRIOR TO INSTALLATION.

## NEW ROOF TOP UNITS

MARK	NET COOLING CAP. (MBH)		EER	GAS HEAT		AFUE %	CFM	O.A.	ENTERING COIL CONDITIONS	EXT. S.P.	FAN BHP	ELECTRICAL				UNIT WEIGHT	CARRIER MODEL NUMBER
	SENSIBLE	TOTAL		INPUT	OUTPUT							VOLTS	PH	MCA	MOCP		
RTU-2	25.86	36.49	13.0	115	90	78	1200	180	80°F DB 67°F WB @ 95°F AMBIENT	0.5	0.44	208	1	31.6	35	580	48HJF004

CAPACITIES AND COIL CONDITIONS TAKEN AT ARI STANDARD CONDITIONS. OUTDOOR AIR QUANTITY BASED ON STANDARD RETAIL OCCUPANCY.

ACCESSORY OPTIONS: 1) DIFFERENTIAL ENTHALPY ECONOMIZER 2) GRAVITY BACKDRAFT RELIEF DAMPER, 3) FACTORY MOUNTED AND WIRED CONVENIENCE OUTLET, 4) DISCONNECT 5) COIL HAIL GUARDS.

## EXISTING ROOF TOP UNITS

MARK	NET COOLING CAP. (MBH)		EER	GAS HEAT		AFUE %	CFM	O.A.	ENTERING COIL CONDITIONS	EXT. S.P.	FAN BHP	ELECTRICAL				UNIT WEIGHT (INSTALLED)	TRANE MODEL NUMBER
	SENSIBLE	TOTAL		INPUT	OUTPUT							VOLTS	PH	MCA	MOCP		
RTU-1	44.03	58.85	9.9	80	83	79	2000	305	80°F DB 67°F WB @ 95°F AMBIENT	0.5	1.05	208	1	49	60	522	YSC080

CAPACITIES AND COIL CONDITIONS TAKEN AT ARI STANDARD CONDITIONS. OUTDOOR AIR QUANTITY BASED ON STANDARD RETAIL OCCUPANCY.

ACCESSORY OPTIONS: VERIFY

PERFORMANCE DATA SCHEDULED ABOVE IS BASED ON CURRENT DATA AND MAY BE ADJUSTED FOR THE ACTUAL UNITS INSTALLED. CONTRACTOR SHALL REBALANCE EXISTING UNITS TO AIR QUANTITIES INDICATED. CONTRACTOR SHALL FIELD VERIFY ALL INDICATED DATA AND MAKE ADJUSTMENTS FOR ACTUAL CONDITIONS.

## DIFFUSERS, GRILLES AND REGISTERS SCHEDULE

MARK	SERVICE	LOCATION	CEILING TYPE	MANUFAC.	CATALOG NUMBER	REMARKS
D-1	SUPPLY	CEILING	AC TILE	TITUS	TMSA X 24X24 3 26 AG-75	SEE PLAN FOR NECK SIZE
D-2	SUPPLY	CEILING	GYP. BD.	TITUS	TMSA X 12X12 1 26 AG-75	SEE PLAN FOR NECK SIZE
G-1	RETURN	CEILING	AC TILE	TITUS	50F 24x24 3 26 B	

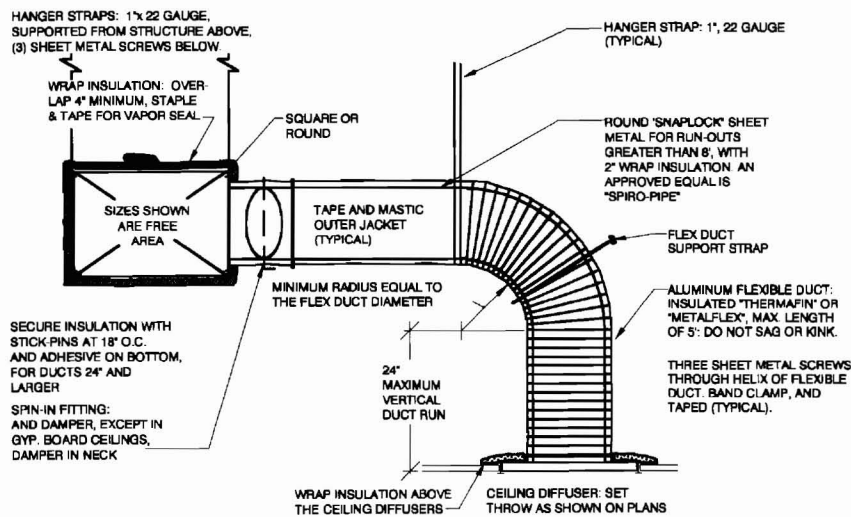
ALTERNATE MANUFACTURERS: CARNES, METAL-AIRE, KRUEGER, TEMPMASTER, OR E.H. PRICE

## EXHAUST FAN SCHEDULE

MARK	LOCATION	SERVICE	CFM	EXT. S.P. (IN W.G.)	RPM	WEIGHT	MOTOR DATA				MFR. MODEL
							AMPS	VOLTS	PH	CYC.	
EF-1	CEILING	RESTROOM	110	0.1	1050	< 20 lbs	1.3	120	1	60	BROAN 678

### NOTES:

- PROVIDE BACKDRAFT DAMPER AND BIRDSCREEN
- FAN TO BE ENERGIZED DURING OCCUPIED HOURS ONLY.
- ALTERNATE MANUFACTURERS: COOK, CARNES OR JENN-AIRE



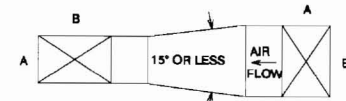
## FLEX. DUCT TAKE-OFF DETAIL

SCALE: NONE

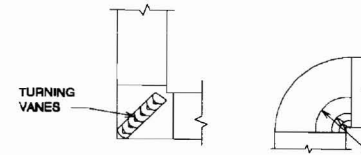
## THERMOSTAT SET POINTS

MODE	OCCUPIED	UNOCCUPIED
COOLING	78° F	85° F
HEATING	68° F	55° F

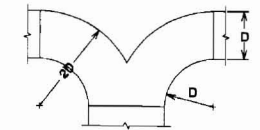
THERMOSTATS FOR HEATING AND COOLING SHALL HAVE SET RANGE OF 55° F TO 85° F ADJUSTABLE TO PROVIDE A RANGE OF 10° F BETWEEN FULL HEATING AND FULL COOLING. ALL HEATING AND COOLING THERMOSTATS SHALL BE DESIGNED TO TERMINATE ALL HEATING AT 85° F AND ALL COOLING AT 75° F HVAC EQUIPMENT SHALL COMPLY WITH GOVERNING ENERGY CODE.



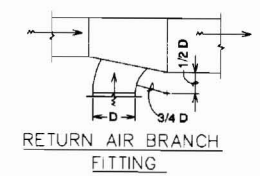
TRANSFORMATION



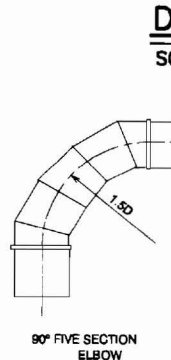
90° ELBOW  
45° ELBOW SIMILAR NO THROA



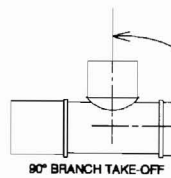
SUPPLY OR RETURN WYE  
(RECTANGULAR DUCT)



RETURN AIR BRANCH  
FITTING



90° FIVE SECTION  
ELBOW



90° BRANCH TAKE-OFF

## SYMBOLS AND ABBREVIATIONS LEGEND

	EXISTING RELOCATED SUPPLY AIR DEVICE		DUCT SMOKE DETECTOR
	EXISTING RELOCATED RETURN AIR DEVICE		REMOTE SENSOR
	EXISTING SUPPLY AIR DEVICE TO REMAIN		THERMOSTAT
	EXISTING RETURN AIR DEVICE TO REMAIN		EQUIPMENT DESIGNATION
	TRANSFER AIR GRILLE		KEYED NOTES
	FLEXIBLE DUCT CONNECTOR		REVISION NUMBER
	FLEX DUCT		POINT OF CONNECTION NEW AND EXISTING PIPING (IF APPLICABLE)
	AIR PATTERN		MOTORIZED DAMPER
	AIR DEVICE TYPE		VOLUME DAMPER
	TURNING VANES - NUMBER OF VANES SHALL BE BASED ON ACTUAL DUCT SIZE AND NOT ON SCHEMATIC SYMBOLS ON DWG.		EXISTING DUCTWORK
	NEW DUCTWORK		DUCTWORK TO REMAIN
	DUCTWORK TO BE REMOVED		
	AREA NOT IN CONTRACT		

ROI  
SCAL

1.01 GENERAL

A. SCOPE

1. The General Requirements of DIVISION 1 govern the work in this section.
  2. Provide all labor, materials and equipment necessary to properly install automatic, gas-fired heating and electric air conditioning systems supplying air to all rooms where shown on Drawings and called for in the Specifications.
  3. Provide equipment as specified together with all necessary ducts, grilles, registers, controls, piping, low voltage fans, control wiring, hangers, stands, equipment supports, flashing at equipment, duct and pipe insulation, unless otherwise noted.
  4. Related Work by Others:
    - a. Painting except as herein specified.
    - b. Line voltage wiring and conduit.
    - c. Electrical supply connection to equipment.
- B. All work shall conform to all federal, state and local codes and any landlord requirements as specified in the executed Lease Agreement. Mechanical Contractor shall verify and coordinate scope of work with Kinko's and landlord.
- C. The Contractor shall examine the premises and verify the existing conditions under which he will be obligated to operate in performing his part of the work or that will in any manner affect the work under contract. No additional compensation shall be provided for conditions found during the execution of contracted work. The Contractor shall cooperate with the all other trades so that the installation of all equipment may be properly coordinated. Contractor shall bring to the attention of the Architect/Engineer any discrepancies between field conditions and design documents.
- D. All equipment furnished shall fit the space available, with connections, etc., in the required locations and with adequate space for operating and servicing. Should a conflict exist between the drawings and the specifications, the Contractor shall promptly notify the Architect whose decision shall be final. No allowance will be made subsequently in this connection to behalf of the Contractor after award of the contract.
- E. All mechanical equipment shall conform with the requirements of the State Mechanical Code, the State Building Code, the State Energy Code, NFPA 90A, 96,101 and all applicable local codes and ordinances.
- F. Drawings for HVAC work are diagrammatic showing the general location, type, layout and equipment required. The drawings shall not be scaled for exact measurements. Refer to manufacturer's standard installation drawings for equipment connections and installation requirements as required. Furnish and install ductwork, connections, accessories, offsets and materials necessary to facilitate the system's functioning as indicated by the design and the equipment indicated. Contractor shall obtain all necessary permits and pay any associated fees.
- G. The Contractor shall install all piping, ductwork and equipment as required to conform the structure, avoid obstructions, preserve ceiling heights and headroom and make all equipment requiring maintenance or repair accessible.
- H. The Contractor shall install HVAC systems as shown noted and specified. Equipment may not be substituted unless written approval by the Architect, Engineer, or Owner's Representative is obtained. Any unauthorized changes shall be removed contractor's expense if deemed necessary by Architect, Engineer, or Owner's Representative. Contractor shall be responsible for any required changes to related work caused by the substitution of any items of materials or equipment at no additional cost to the owner.

2.01 DUCTWORK

- A. All ductwork shall be constructed of galvanized steel sheet metal and be fabricated according to the latest edition of the SMACNA HVAC Duct Construction Standards for metal and flexible ductwork.
- B. All elbows shall have proper radius or HVAC contractor shall provide double thickness airfoil turning vanes required by SMACNA. No square throat elbows shall be installed without double thickness turning vanes.
- C. All duct connections to equipment shall be loaded type vinyl, vibration elimination connections, (FC) flexible connections.
- D. Flex duct: Provide factory assembled Class 1 air duct (UL 181) with fiberglass insulation and reinforced outer protective cover/vapor barrier. Flex duct shall meet NFPA 90A with flame spread under 25, smoke developed under 50, and shall be rated for 1" W.C. pressure and 0 to 250 degree temperature. Maximum length shall be 5'-0". Minimum center line bend radius shall be 1 1/2 duct diameters.
- E. All new supply and return ductwork shall be insulated with external duct wrap. Duct wrap shall be foil reinforced kraft facing meeting NFPA 90A flame spread under 25 and smoke developed under 50. Thickness, density and "R" value shall per code. Duct wrap shall be fastened to ductwork per manufacturer's instructions. Round branch ductwork shall be insulated with 1" thick fiberglass sleeve with foil jacket and all joints and terminations sealed with foil duct tape. All supply and return ductwork exposed to view and located in the conditioned space shall be uninsulated.

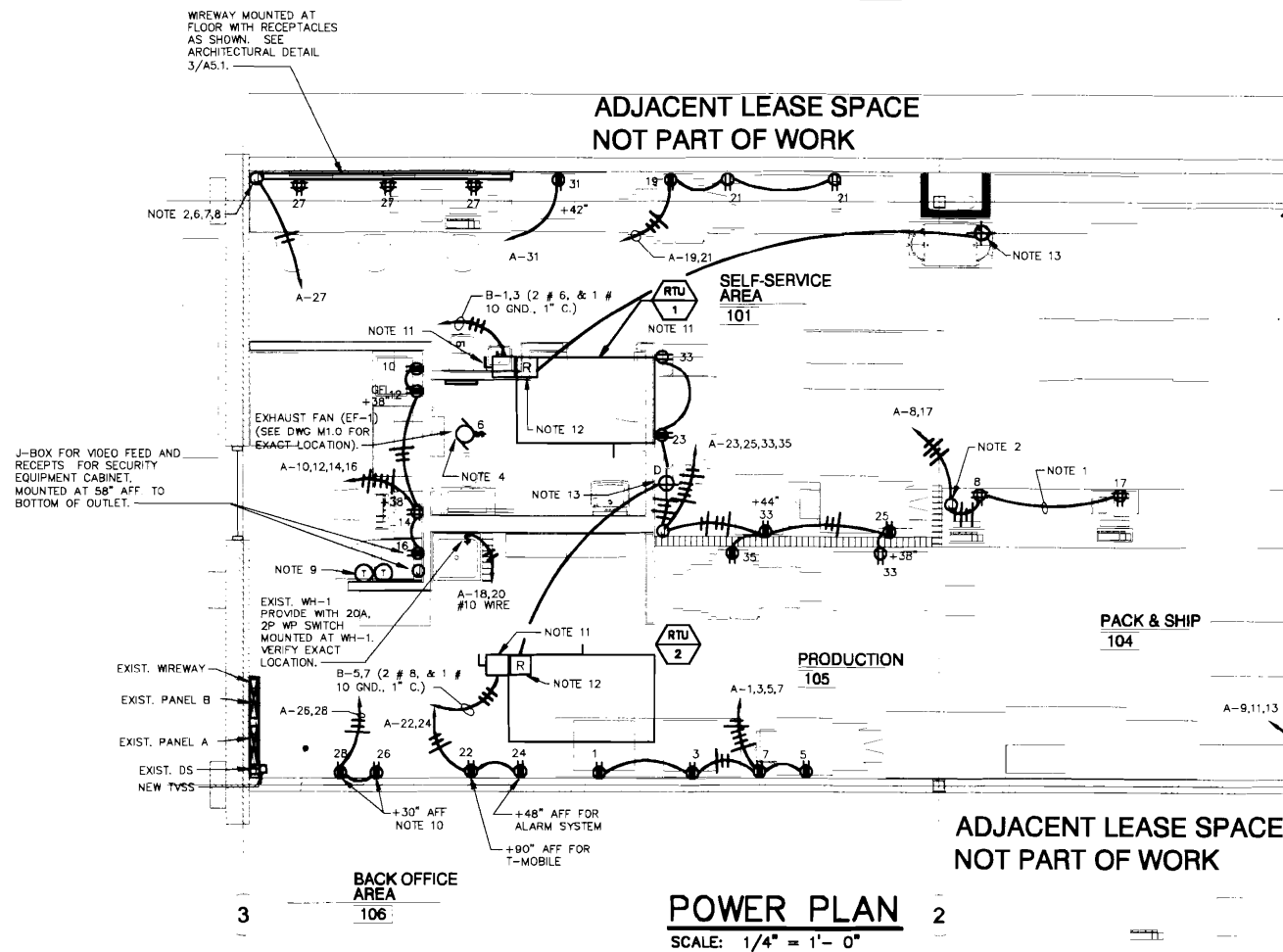
2.03 GRILLES, REGISTERS, AND DIFFUSERS

- A. The Contractor shall provide grilles, registers, and diffusers where indicated and as scheduled on the drawings.
- B. Grilles, registers, and diffusers shall be provided with opposed blade volume dampers.
- C. Grilles, registers, and diffusers shall be provided with frame types to match the surface into which they will be installed.
- D. Grilles, registers, and diffusers shall be provided with factory applied white finish.

3.01 EXECUTION

- A. All ductwork transitions shall be (FOT) "Flat on Top" unless otherwise specified on plan. All duct dimensions listed are inner air stream dimensions.
- B. All ductwork shall be routed above the suspended ceiling space unless otherwise noted on the plans. All ductwork shall be suspended according to the latest edition of the SMACNA HVAC Duct Construction Standards for metal and flexible ductwork.
- C. All outside air intakes shall be a minimum of 10'-0" away from exhaust discharge openings and plumbing vent stacks.
- D. Provide UL approved fire dampers for all penetrations through fire rated walls, partitions, ceilings, and floors. Install fire dampers as per manufacturer's directions and as per UL guidelines.
- E. Provide round spin-in fittings with volume damper for every inlet and outlet attachment to the main trunk duct whether shown on the plans or not. Provide additional volume dampers at all secondary branch take-offs from ductwork mains and as indicated on plans.
- F. The contractor shall warranty all materials and guarantee all workmanship for one year from substantial completion. Provide full 5 year guarantee on all air conditioning compressors.
- G. Supply, return and positive pressure exhaust ductwork shall be sealed in accordance with SMACNA Seal Class C.
- H. Core-drill or saw-cut existing walls, roof, etc. as required for piping or ductwork and fire-stop opening around pipe or ductwork. Verify location of structural beams, joists, etc. before drilling or cutting. Notify architect of any discrepancies.
- I. Wherever foundation walls, outside walls, roofs, etc. are cut for installation of systems, they shall be patched to match existing construction and sealed weather tight. Work shall be performed by craftsmen skilled in their respective trades.
- J. Provide 3 sets of pleated disposable filters. One set to be used until completion of construction phase. Install one set at completion of construction phase and deliver one set to owner and label each set of filters to denote their respective HVAC units.
- K. Submit two Operation and Maintenance Manuals bound in 8-1/2" x 11" page binders, titled "Operation And Maintenance Manual". Subdivide binder contents with page dividers by system and equipment. Include all shop drawings, and warranties. Submission of these documents shall be a requirement for final payment.

NOTE: THE "CONTACT INFORMATION SHEET" SHALL BE FILLED OUT AND FORWARDED TO THE TEST AND BALANCE CORPORATION UPON AWARD OF CONTRACT. OUT AND SUBMITTED TO TEST AND BALANCE CORPORATION (VIA FAX) TEN DAYS PRIOR TO THE SCHEDULED DATE FOR THE TESTING AND BALANCING WORK. FAILURE TO COMPLETE THE HVAC WORK PRIOR TO THE TEST AND BALANCING CONTRACTOR ARRIVING AT THE JOB SITE MAY RESULT IN A NON-REIMBURSABLE INCREASE.



**ELECTRICAL NOTES:**

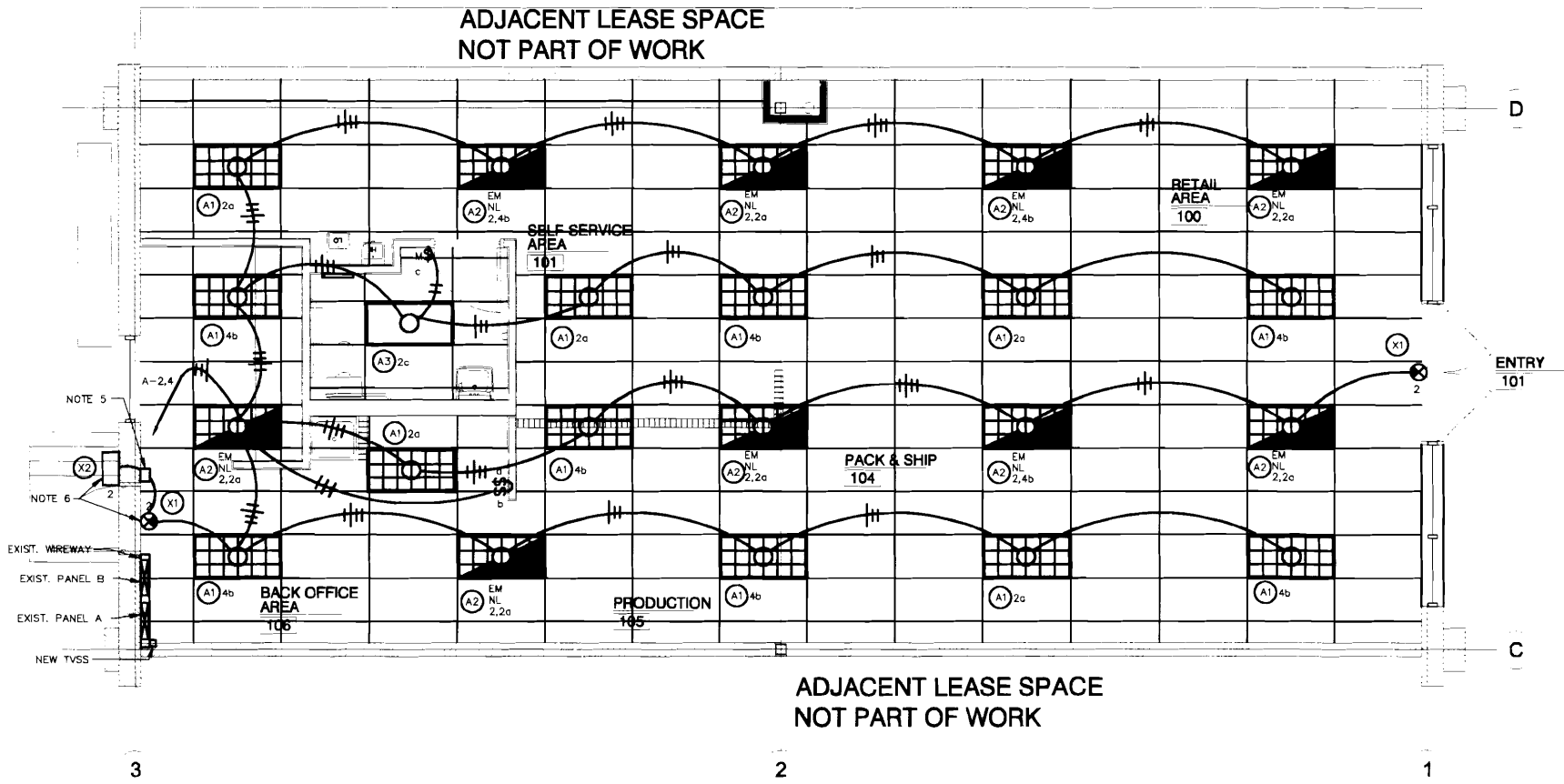
1. RUN MC CABLE, FLEX CONDUIT THROUGH FIXTURE TOE SPACE. COORDINATE WITH FXK PROJECT MANAGER.
2. PROVIDE 2 GANG BOX IN A CONCEALED SPACE AT THE END OF THE FURNITURE FOR POWER AND DATA CONNECTIONS TO FURNITURE. PROVIDE DEVICES WHERE SHOWN AND UTILIZE FLEXIBLE "WHIP" CONDUITS THROUGH THE TOE SPACE. REFER TO DRAWING DC-1 FOR INFORMATION ON DATA.
3. COORDINATE WITH THE SIGN CONTRACTOR FOR SIGN WATTAGE, VOLTAGE, AND EXACT LOCATION PRIOR TO INSTALLATION.
4. CONNECT EXHAUST FAN TO THE LIGHTING CIRCUIT IN THE RESTROOM AND INTERLOCK WITH LIGHT SWITCH IN RESTROOM. SEE DRAWING E-2 FOR LIGHTING.
5. PROVIDE WIREMOLD #ALA-4520 TWO PIECE MULTIPLE CHANNEL, LARGE PROFILE ALUMINUM RACEWAY, FLOOR MOUNTED WHERE SHOWN ON THIS SHEET. ONE CHANNEL FOR POWER, THE OTHER CHANNEL FOR DATA. CONTACT PAUL SICKMAN WITH GRAYBAR (817) 213-1200.
6. PROVIDE A WIREMOLD AL4520 TWO-PIECE, MULTIPLE CHANNEL, PRE-WIRED ISODUCT, LARGE PROFILE ALUMINUM RACEWAY, FLOOR MOUNTED WHERE SHOWN ON THIS SHEET ONE CHANNEL FOR POWER, THE OTHER CHANNEL FOR DATA. CONTRACTOR TO ORDER FROM GRAYBAR EITHER A 3 COMPUTER WORKSTATION OR A 5 COMPUTER WORKSTATION SYSTEM DEPENDING ON SITE CONDITION. CONTACT PAUL SICKMAN WITH GRAYBAR AT (817) 213-1200.  
3 COMPUTER STATION- (1) DJ111WC1 AND FEK-4520-1MW  
5 COMPUTER STATION- (1) DJ111WC1, (1) FEK-4520-1MW & (1) FEK-4520-6.  
INSTALL RACEWAY THROUGH TOE SPACE PROVIDED IN FIXTURE, COORDINATE WITH PROJECT MANAGERS AS REQUIRED.
7. PROVIDE TWO GANG JUNCTION BOX & WIREMOLD# DJ111WC1 MODULAR COVER PLATE, AND PROVIDE WIREMOLD# CS111L3 MODULAR CABLE WHIP FROM BOW TO WIREMOLD RACEWAY. BOX TO BE MOUNTED AT 6" AFF FOR COMPUTER WORK STATION POWER AND DATA CONNECTIONS. FIELD DRILL OPENING ON FIXTURE FOR CONCEALED POWER AND DATA FEEDS INTO THE WIREWAY. REFER TO DRAWING DC-1 FOR INFORMATION ON DATA.
8. DEDICATED CIRCUIT FOR COMPUTER WORK STATION FURNITURE. GROUND AND NEUTRAL CONDUCTORS ARE NOT TO BE SHARED WITH OTHER CIRCUITS.
9. J-BOXES (2) FOR THERMOSTAT AT 48" A.F.F. (SEE DRAWING M-2.0).
10. CONTRACTOR TO PROVIDE TWO DEDICATED OUTLETS FOR FXK SERVER AT 30" AFF.
11. RTU PROVIDED WITH FACTORY INSTALLED WEATHERPROOF DISCONNECTING MEANS AND FACTORY INSTALLED AND WIRED GFCI RECEPTACLE.
12. RTU PROVIDED WITH FACTORY FURNISHED AND FIELD INSTALLED DUCT MOUNTED SMOKE DETECTOR. MECHANICAL CONTRACTOR SHALL PROVIDE WIRING TO FAN INTERLOCK. ELC SHALL MAKE CONNECTION TO LANDLORDS BASE BUILDING FIRE ALARM SYSTEM AND REMOTE ANNUNCIATOR.
13. REMOTE SENSOR FOR AHU AT 54" A.F.F. (SEE MECHANICAL DRAWING M2.0 FOR EXACT LOCATION).

**GENERAL NOTES:**

- A. ALL CONDUIT TO BE 3,
- B. CONTRACTOR TO VERIFY REPRESENTATIVE PRIO
- C. VERIFY EXACT LOCATION PLUGS AND PROVIDE PI
- D. ALL BRANCH CIRCUITS, EQUIPMENT GROUND, SI
- E. ALL RECEPTACLES SHA OF BOX, UNLESS OTHEI
- F. ALL OUTLETS AT BUILT TOP OF THE OUTLET.
- G. PROVIDE NAMEPLATE FK NO./OUTLET RATING/EC EQUIPMENT WITH PROJE
- H. ALL OUTLETS SHALL BE CORRESPONDING CIRCUI STICK-ON LABEL, AND
- I. STUB-UP (2) 3/4" COI EACH PANELBOARD FOR
- J. STUB-UP (1) 1 1/2" C ACCESSIBLE CEILING, OI
- K. CEILING RECEPTACLES
- L. SEE DRAWING E-3.0 FC
- M. PROVIDE DEDICATED OR (DO NOT SHARE WITH C
- N. MOUNT OUTLETS ABOVE AT +40" ABOVE FINISH
- O. ALL RECEPTACLES SHAI SPECIFICALLY NOTED O

LIGHTOLIER - ULTRA MAX BALLAST & ULTRA LAMPS - DUAL VOLTAGE

QTY (EA)	TYPE	MFG	CATALOG #	DESCRIPTION	GE LAMP PART NUMBER	LAMP DESCRIPTION	LAMP QTY PER FIXTURE	AREA IN BRANCH
<b>2'x4' OPTIONS FOR LAY-IN CEILING GRID:</b>								
12	A1	LIGHTOLIER	DPA2G18LS332UNVGI-CUL	2'x4' Recessed 3-Lamp 18-Cell Parabolic 3" Louver	F32T8XLS411SWMECO (GE #48532)	T8 Ultra Wall-Miser	3	Express/Computer Services/Production/Offices
9	A2	LIGHTOLIER	DPA2G18LS332UNV-GI-CUL-OX5 Provide w/ 2 ballast.	2'x4' Recessed 3-Lamp 18-Cell Parabolic w/ Emergency Ballast 3" Louver 1100 Lumen Wire To Un-Switched Circuit	F32T8XLS411SWMECO (GE #48532)	T8 Ultra Wall-Miser	3	Express/Computer Services/Production/Offices
1	A3	LIGHTOLIER	XP2GVA332UNVGI-CUL	2'x4' Recessed 3-Lamp 18-Cell w/ Acrylic Lens	F32T8XLS411SWMECO (GE #48532)	T8 Ultra Wall-Miser	3	CPC's/Breakroom/Handling area
<b>EXIT SIGNS:</b>								
2	X1	DUAL-LITE	LXURWE	Universal Exit Sign, Red Letters, White Housing				As required
1	X2	LITHONIA	WST-2/26DTT-MD-120-SF-ELDW-DFL-LPI-DDBT-WSBBW-PE	WALL 7'-0" AFF		26WATT FL.	2	ALTERNATE BID. BLDG. EXTERIOR AT STAIRS. PROVIDE REMOTE EM BATTERY PSDL3-795 LUMEN OR BODINE B84C INSIDE OF BLDG.

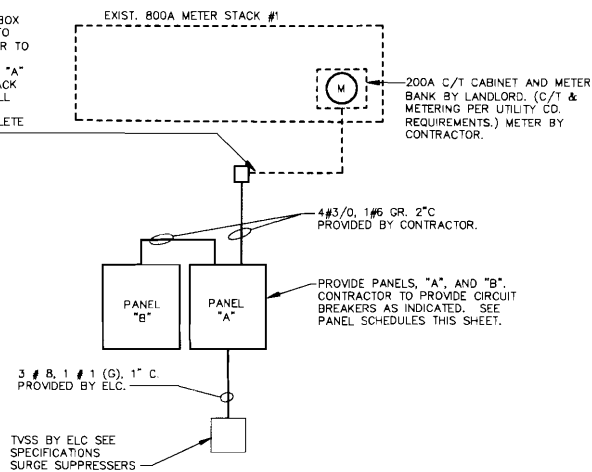


LIGHTING N

1. PROVIDE WA ALL CO-WO CONSTRUCTI
2. "M" SUBSCR SENSOR LIG
3. ALL WIRING OTHERWISE
4. PROVIDE 110 FIXTURES M UNSWITCHE SWITCHED A
5. PROVIDE RE BALLAST M EMERGENCY
6. PROVIDE TH UNDER ALT



EXIST. 2" C BY LANDLORD TERMINATED IN TENANT SPACE. PROVIDE PULL BOX AND EXTEND CONDUIT TO PANEL "A". CONTRACTOR TO PROVIDE WIRING AS INDICATED FROM PANEL "A" TO EXISTING METER STACK LOCATION AND MAKE ALL FINAL CONNECTIONS AS REQUIRED FOR A COMPLETE WORKING SYSTEM.



## LOAD ANALYSIS

LIGHTING	5.3 KW X 1.25 =	6.6 KW
RECEPTACLES FIRST 10 KW	0.0 KW X 1.00 =	0.0 KW
REMAINING RECEPTACLES	00.0 KW X .5 =	00.0 KW
MISC. LOADS	26.8 KW X 1.0 =	26.8 KW
HVAC LOADS	16.8 KW X 1.00 =	16.8 KW
SUB-TOTAL		50.2 KW = 139.4 AMPS
+ 25% OF LARGEST MOTOR	5.0 KW X .25 =	1.2 KW
TOTAL		51.4 KW = 142.8 AMPS

NOTE: PHASE LEG "A" 20.7KW = 172.5A (HIGH LEG)

## RISER DIAGRAM

NTS

1

## NEC LOAD DATA

NTS

2

NOTE:  
SEE DRAWINGS T1.0 AND  
A2.0 FOR PARTIAL  
RESPONSIBILITY SCHEDULES.

## NOT USED

NTS

4

SURFACE FLUSH	PANEL A	LOADS KW			DESCRIPTION	CKT #
		A#	B#	C#		
1	SPARAN 150	1.4			EXIT/NIGHT LTS/EF-1.	2
3	COIL MAC	1.2	0.9		SALES AREA LIGHTING	4
5	IR 5070N	1.6	1.0		SIGN	6
7	IMAGE PASS	1.8	1.8		COMPUTER SERVICE RECEPTACLES	8
9	COMPUTER SERVICE RECEPTACLES	0.8	0.5		REFRIGERATOR	10
11	COMPUTER SERVICE RECEPTACLES	0.4	1.6		MICROWAVE	12
13	FAX	1.4	2.0		COMPUTER SERVICE RECEPTACLES	14
15	SPARE	1.0			SECURITY OUTLET	16
17	COMPUTER SERVICE RECEPTACLES	1.0	1.0		WH-1	18
19	DOC 250N	1.0				20
21	EPS02 & LAM 7020	1.0	0.5		ALARM SYSTEM	22
23	IR 5070N	1.0	1.8		T-MOBILE	24
25	IR 5070N	1.8	1.0		TELECOM CABINET	26
27	COMPUTER SERVICE RECEPTACLES	1.2	1.0		TELECOM CABINET	28
29	SPARE				SPARE	30
31	PHASER 6350DP	1.0			SHOW WINDOW RECEPTACLE	32
33	RECEPTACLE	1.0	1.0		SHOW WINDOW RECEPTACLE	34
35	DOC 150N		1.8		SPARE	36
37	SPARE				SPARE	38
39	SPARE				SPARE	40
41	SPARE				SPARE	42
BKR 1P, 20A UNLESS NTD. HANDLE LOCK-ON DEVICE		12.3	10.1	9.7	TOTAL CONNECTED	32.1 KW 89.2 AMPS

PROVIDE PANEL A WITH FEED THRU LUGS FOR EXTENSION OF CONDUCTORS TO PANEL "B".

SURFACE FLUSH	PANEL B	LOADS KW			DESCRIPTION	CKT #
		A#	B#	C#		
1	EXIST. RTU-1	9.1			SPARE	2
3		5.1			SPARE	4
5	NEW RTU-2	3.3	3.3		SPARE	6
7		3.3			SPARE	8
9	SPARE				SPARE	10
11	SPARE				SPARE	12
13	SPARE				SPARE	14
15	SPARE				SPARE	16
17	SPARE				SPARE	18
19	SPARE				SPARE	20
21	SPARE				SPARE	22
23	SPARE				SPARE	24
25	SPARE				SPARE	26
27	SPARE				SPARE	28
29	SPARE				SPARE	30
31	SPARE				SPARE	32
33	SPARE				SPARE	34
35	SPARE				SPARE	36
37	SPARE				SPARE	38
39	SPARE				SPARE	40
41	SPARE				SPARE	42
BKR 1P, 20A UNLESS NTD. HANDLE LOCK-ON DEVICE		8.4	5.1	3.3	TOTAL CONNECTED	16.8 KW 46.7 AMPS

\*\* PROVIDE HACR RATED CIRCUIT BREAKER.

## PANEL SCHEDULES

NTS

3

## SYMBOL LEGEND

SYMBOL	DESCRIPTION
	CEILING MOUNTED CONVENIENCE OUTLET
	DUPLEX CONVENIENCE OUTLET
	DOUBLE DUPLEX (4-PLEX) CONVENIENCE OUTLET
	SINGLE CONVENIENCE OUTLET
	20 A, 250 V. OUTLET
	30 A, 250 V. OUTLET
	50 A, 250 V. OUTLET
	FLOOR CONVENIENCE OUTLET
	FLOOR 4-PLEX CONVENIENCE OUTLET
	MULTI-OUTLET ASSEMBLY
	DEDICATED RECEPTACLE
	DEDICATED FLOOR RECEPTACLE
	POWER POLE
	JUNCTION BOX WALL
	JUNCTION BOX CEILING
	JUNCTION BOX FLOOR
	LIGHTING OR POWER PANEL
	MAIN DISTRIBUTION PANEL
	BRANCH CIRCUIT - EXPOSED
	BRANCH CIRCUIT CONCEALED IN WALL OR CEILING
	BRANCH CIRCUIT CONCEALED IN FLOOR
	HOME RUN TO PANEL BOARD, 2 WRES UNLESS OTHERWISE INDICATED
	RACEWAY - HASH MARKS INDICATE NUMBER OF CONDUCTORS
	DENOTES - ISOLATED GROUND, NEUTRAL, 3 HOTS
	CIRCUIT DOWN
	CIRCUIT UP
	SINGLE SWITCH
	3-WAY SWITCH
	4-WAY SWITCH
	DIMMER SWITCH
SUBSCRIPT FOR ALL RECEPTACLES & SWITCHES	
"P" DENOTES SWITCH WITH PILOT LIGHT IN TOGGLE	
"T" DENOTES SWITCH WITH TIMER	
"WP" DENOTES WEATHERPROOF	
"M" DENOTES MOTION DETECTOR	
** ALL SWITCHES SHALL BE MOUNTED AT +48" A.F.F. U	
	CAN CEILING LIGHT FIXTURE, RECESSED OR SURFACE
	WALL MOUNTED LIGHT FIXTURE, SCONCE
	WALL MOUNTED LIGHT FIXTURE, FLUORESCENT
	CEILING LIGHT FIXTURE, RECESSED OR SURFACE FLUORESCENT
	FLUORESCENT STRIP LIGHT FIXTURE
	WALL MOUNTED EXIT LIGHT FIXTURE
	CEILING MOUNTED EXIT LIGHT FIXTURE W/ DIRECTIONAL ARROW
	TRACK LIGHTING
	NUMERAL IN CIRCLE INDICATES FIXTURE TYPE CORRESPONDING TO A MARK NUMBER ON THE LIGHTING FIXTURE SCHEDULE

**SECTION 16010 - GENERAL PROVISIONS****1.01 RELATED DOCUMENTS**

- A. The General Conditions, Supplementary Conditions and General Requirements apply to the Work specified in this Section.

**1.02 DESCRIPTION**

- A. This Section defines the General Provisions which are common to all Sections of Division 16.

B. The information in the Specifications and the Plan Drawings are basic facts to follow in determining a reasonable and competitive price for the disciplines intended. The Drawings and Specifications do not necessarily indicate or describe each item necessary for the full performance and completion of the particular work the contractor may be bidding. These documents provide the general intent necessary to inform the contractor of the Owner's desire for the systems required for Electrical. Contractor shall visit the site prior to bidding to become familiar with the existing conditions under which the work shall be performed. Failure to inspect the site will not constitute justification for an adjustment in contract price or failure to perform the work under this contract.

**C. Work Included:**

1. All electrical work herein specified and/or shown on drawings unless noted otherwise.
2. Work by the Utility Company for which there is a backcharge. All electrical back charges to be included under this Division 16 Contract.
3. Installation shall be complete from the location designated by the Electrical Utility Company as the point of service connection, to the final connection of motors, fixtures, wiring, wire apparatus or pieces of equipment, unless modified by Drawings or these Specifications.
4. The Electrical Drawings and Specifications shall be understood to cover complete operating systems. The Drawings and Specifications are to be taken together. Work specified and not shown, or work shown and not specified shall be performed or furnished as though mentioned in both Drawings and Specifications.
5. Minor items and accessories reasonably inferred as necessary to the complete and proper operation of any system, shall be provided by this Contractor or Subcontractor for such systems.

**D. Description of System:**

1. Complete power wiring to main disconnect switch, panel, motorized equipment, motors, equipment cabinets, and miscellaneous outlets.
  2. General wiring for power, lighting, and miscellaneous systems.
  3. Materials and equipment for electrical work.
  4. Electric service and distribution.
  5. Motor and equipment wiring, including starters if required.
  6. General and emergency lighting and power systems.
  7. Contactors for lighting and sign control systems.
  8. Telephone back boxes and empty conduit.
  9. Arrange for sources of temporary construction services. Such services shall be normally 120/208 volt, 3 phase, 4 wire from which a complete system of temporary power and lighting shall be installed for all construction needs and as required by the occupational safety and health departments (OSHA). Temporary services shall be removed upon completion of work.
  10. Computer system empty conduit raceway.
  11. Wiring of power connections to equipment furnished and installed by others.
  12. Cutting, patching, excavation and back fill, and concrete work required to complete the work of this section. Back fill shall be compacted to 95% of standard compaction. All existing surfaces shall be patched or replaced to "Like New" conditions.
  13. All other equipment, material, devices, accessories required and/or shown on the drawings.
- E. Related work to be completed by others:
1. Telephone system wiring.
  2. Computer system wiring.
  3. Temperature controls and thermostat wiring.
- F. Definitions - As used within the Contract Document:
1. The term "Contractor" shall be understood to mean the Electrical Contractor or Electrical Subcontractor.
  2. "Circuitry" or "Wiring" shall mean any electric work.
  3. "Package Unit" shall mean an item of equipment having one or more motors or other electric energy consuming elements integrally factory mounted on a single base, complete with all associated control devices and interconnecting wiring.
- G. Permits:
1. Obtain all permits and pay all fees required for the complete electrical system.

**1.03 QUALITY ASSURANCE****A. Qualifications:**

1. Materials and equipment shall be new and shall conform to N.E.M.A. and Underwriters Laboratories (UL) standards in every case, where such standard has been established. All equipment of similar type shall be of the same manufacturer.
- B. Requirements of Regulatory Agencies:
1. All electrical work shall be in accordance with the National Electrical Code (N.E.C.), current edition, and any amendments to the National Electrical Code made by the local Code Officials.
  2. Where applicable, all fixtures, equipment and materials shall be as approved or listed by the following agencies:
    - a. Factory Mutual Laboratories.
    - b. National Fire Protection Association.
    - c. Underwriters Laboratories, Inc. (UL)
    - d. National Electrical Manufacturers Association (NEMA)
    - e. Americans with Disabilities Act (ADA)
- C. Allowable Tolerances:
1. Review Architectural, Structural and Mechanical Drawings for all dimensions, locations, partitions and walls, structural details, and location of mechanical pipes and ducts so that the electrical installation shall be in coordination with that of the other trades.
  2. Exact location and electrical requirements of equipment furnished by other trades and wired by this Contractor shall be obtained from the Drawings of the other trades.

**1.04 SUBMITTALS**

- A. Shop drawings for all fixtures, equipment, materials, etc., shall be submitted as specified in Division 1.
- B. Installation, maintenance and operating manuals and instructions for all equipment shall be provided as specified in Division 1.

**1.05 APPROVAL DRAWINGS**

- A. Prepare and submit for approval such additional electrical drawings, diagrams, and specifications as are required by:
1. Local Fire Prevention Bureau
  2. Local Building Department - Electrical Inspection Section
  3. Local Utility Companies

**1.06 COORDINATION AND COOPERATION**

- A. The contractor shall examine the premises and satisfy himself of existing conditions under which he will be obligated to operate in performing his part of the work or that will in any manner affect the work under the contract. The Contractor shall cooperate with other trades so that the installation of all equipment may be properly coordinated.
- B. All equipment furnished shall fit the space available, with connection, etc., in the required locations and with are generally diagrammatic and indicate the manner and method adequate space for operating and servicing. The drawings of the installation while the specifications and fixture list denote the type and quality of material and workmanship to be used. Where a conflict exists between the drawings and the specifications, the Contractor shall promptly notify the Architect whose decision shall be final. No allowance will be made subsequently in this connection on behalf of the Contractor after award of the contract.

**1.08 GUARANTEE**

- A. Provide one year guarantee for all fixtures, equipment, materials and workmanship, upon final acceptance by Owner. Any defective material or faulty workmanship shall be replaced without cost to owner.

**2.01 PROTECTION**

- A. The contractor shall be responsible for protecting all equipment and systems against harmful exposure, or accumulation of dust/moisture, flooding, corrosion, or other forms of damage. Clean and restore damaged finishes and equipment to place installation in a like-new condition.

**2.02 INSTALLATION/APPLICATION/PERFORMANCE/ERECTION****A. Application, Installation:**

1. No measurements of a Drawing by scale shall be used as a dimension to work by. The drawings are not intended to show complete or accurate details of the building in respect. Exact locations and relations are to be defined in the field and shall be satisfactory to the Architect/Engineer. This Contractor shall take all field measurements and shall be responsible therefore.
2. Compare Drawings and Specifications, checking all measurements and determine intent of Contract Documents. Discrepancies shall be brought to the Architect/Engineer's attention for interpretation prior to any installation.
3. The right is reserved to make any reasonable change in location of outlets and equipment prior to roughing-in without incurring additional expenses. Any change from the Electrical Drawings shall be necessary to make the work of this Contractor conform to the building as constructed and to fit the work of other trades shall be included in Contractor's Contract and installed without extra cost.
4. Perform all work in compliance with all applicable safety regulations including OSHA regulations.
5. Coordinate all work with other trades prior to any installation.
6. Provide code approved clearances around electrical equipment.
7. Coordinate staging of material with building management representative at time of bidding.

**2.03 FIELD QUALITY CONTROL****A. Testing:**

1. After wires are in place and connected to devices and equipment, the system shall be tested for shorts and grounds. All hot wires, if shorted or grounded, shall be removed and replaced.
2. All meters, instruments, cable connections equipment, and apparatus necessary for making all tests, shall be furnished by this Contractor at his own expense.

**2.04 ADJUST AND CLEAN**

- A. Cleaning Equipment, Completed Work and Premises: After the completion of all installations, each system shall be thoroughly cleaned to remove all paint, oil and other foreign matter. Contractor shall also clean all foreign paint, grease, oil, dirt, labels and stickers, etc., from all fixtures, equipment, etc. The Contractor shall remove all rubbish, debris, etc., accumulated from his operations from the premises.

**2.05 APPROVALS**

- A. Obtain all permits and approvals from the governing bodies which have jurisdiction over this project.

**2.08 IDENTIFICATION AND TAGGING**

- A. Identification of distribution switches or circuit breakers individually mounted or of panelboards shall be by means of engraved nameplates permanently fastened on the front face of the housing, showing 1/4" high white lettering on a black background. Provide all panelboards with typewritten directory.

**2.07 SLEEVES**

- A. Provide sleeves in walls and floor slabs for the passage of all conduits, pipes and ducts installed. Sleeves shall be set in place in sufficient time ahead of concrete work, so as not to delay that work.

**2.08 CUTTING AND PATCHING**

- A. Perform all cutting and patching required to complete the Work, except where specifically shown on the Architectural or Structural Drawings. Patching shall match existing and shall be coordinated with Owner's representative.

**SECTION 16010 - BASIC MATERIALS AND METHODS****2.01 MATERIALS****A. Conduit:**

1. Electrical Metallic Tubing: EMT, "Thin wall" conduit shall in general be utilized where permitted by Code except where described herein. Minimum size conduit shall be 3/4", unless specifically noted otherwise.
2. Heavy-wall steel conduit and I.M.C. shall be either hot dipped galvanized or sterdarized.
3. Flexible conduit shall be Greenfield type except where exposed to grease, or water - conduit shall be Sealite.
4. Plastic conduit shall be PVC Schedule 40.
5. Conduit shall be as manufactured by Allied, Triangle or approved equal.
6. Provide expansion fittings for conduits crossing expansion joints.

**7. Conduit Fittings:**

- a. Rigid: Threaded.
- b. Thin-Wall: Compression Type.
- c. Flexible: Connectors shall be compatible with flexible conduit used.

- B. Provide bushing and locknuts for all conduit entries to boxes.

**B. Wires and Cables:**

1. Unless specifically noted otherwise, all wiring shall be installed in conduit.
2. All wire shall be type THW or THWN copper. No aluminum conductors will be allowed.
3. Wire smaller than #8 shall be solid; #8 and larger, stranded.
4. Cable and wire shall be as manufactured by Triangle, General Cable, Canada or Gerd.

**C. Color Coding:**

- Color coding shall be used throughout the entire electrical system, from industry standard color coding for the voltages involved. Control wiring shall be numbered for easy identification of terminal points. Number terminus blocks accordingly.

**D. Disconnect Switches:**

1. Switches shall meet NEMA enclosed switch standards (KSI, current edition). Switches shall be quick-make, quick-break so that operation of the contacts shall not be capable, during normal operation of the switch, of being restrained by the operating handle after the opening or closing of the contacts has started.
2. All safety switches shall be heavy duty of voltage matching equipment served. NEMA 1 for indoor use and NEMA 3R for outdoor use. Switches shall be as manufactured by Westinghouse, General Electric, Square D, or Siemens.

**E. Fuses:**

- Furnish and install all fuses. Fuses shall be as specified on the Drawings.

**F. Outlet, Pull and Junction Boxes:**

- Outlet, pull and junction boxes shall be 16 gauge, or heavier, steel, with removable knockouts. Boxes shall be as manufactured by Appleton, Steel City or Raco. Size boxes as required for the intended duty, minimum size as required by the National Electrical Code.

**G. Switches:**

1. Wall switches shall be located as indicated on the Drawings, arranged singly or in gangs and at the height specified or indicated and shall have proper covers with finishes specified herein. Switches shall be as follows unless otherwise noted for on Drawings or hereinafter specified.
  - a. Switches, 20 amperes, 120/277 volt specification grade, quiet rated; by Leviton, Eagle, HUBBELL or Pass & Seymour. Switch shall be White.

**H. Receptacles:**

1. Receptacle shall be located as shown on the Drawings and at the heights specified or indicated. Receptacle and power outlets shall be specification grade, 20 amp grounding type as manufactured by Hubbell, General Electric, Pass & Seymour, Eagle or Leviton. Receptacle shall be White. Color of dedicated receptacles shall be red.
2. Floor electrical boxes shall be "HUBBELL" rectangular, non-metallic (PVC), recessed floor boxes, model "PFBRG", available in 1, 2, and 3 gang UL listed. Floor boxes shall have 1" conduit hubs. Floor box covers shall be "HUBBELL" metallic, aluminum finish duplex covers, with hinged flap and lock down screw, model "SA3825". Floor box requires "HUBBELL" carpet flange, model "SA3083" "SA3084" or "SA3085". Floor box requires "HUBBELL" adapter frame, model "SA5017G", and adapter color, model "PFBRC".
3. Alternate floor electrical boxes shall be "Carlton" rectangular, non-metallic (PVC), recessed floor boxes, model "E976RT", available in 1, 2, and 3 gang UL listed. Floor box requires "CARLON" floor activation kit, model "E976AK2". Floor boxes shall have 1" conduit hubs. Floor box covers shall be "CARLON" high impact, thermoplastic covers, model "E976C", caramel color, for Kinko's branch color schemes "K2000" and "B-R2000", and model "E976S", slate color, for Kinko's branch color schemes "A" and "B" ("\*" in cover plate model number denotes number of gangs).

**I. Switch and Receptacle Plates:**

1. Plates in finished areas for switches and receptacles shall be stainless steel plate. Identify all dedicated circuits with a laser printed adhesive label indicating panel and circuit number.

**J. Electrical contractor shall provide all elbows, connectors, etc., and install outlets complete.****K. Lighting and Appliance Panelboards:**

1. Panels shall be type indicated on the Drawings, with main lugs, main breakers, branch breakers, spares and spacers as scheduled.
2. Panels shall comply with U.S. Federal Specification WP115a, Type 1, Class 1.
3. All circuit breakers shall be bolt-on type.
4. The Electrical Contractor shall balance all circuits. All conductors shall be continuous without splicing from last outlet to their terminals in cabinet.
5. Contractor shall provide a directory of circuits for cabinet. Directory shall be typewritten designating room or equipment and circuit numbers, include any existing circuits which remain.
6. Where 2 or 3 pole breaker units are called for, they shall be on unit with common trip and not single pole units with handle ties. Capacity of main buses shall be as shown on the Drawings.
7. Panelboards shall be manufactured by Westinghouse, Square D, Siemens or General Electric.

**3.01 PREPARATION/INSTALLATION/APPLICATION****A. Conduit:**

1. Installation - All conduit shall be sized in accordance with the N.E.C.
  - a. Conduit to be run exposed in unfinished areas such as mechanical and electrical room used as electrical closets. All other conduit shall be concealed.
  - b. All conduit and wiring shall be concealed wherever possible. Where conduit and wire cannot be concealed, obtain direction from the Architect. No surface mounted conduit, wire and/or power poles will be acceptable, unless specifically indicated on the drawings.
  - c. All exposed conduits shall be run parallel to or at right angles to structural members. Carefully coordinate exact routing with the Architect's representative, in the field, prior to any installation.

**SECTION 16400 - SERVICE****1.01 DESCRIPTION****A. Work Included:**

1. Current transformer
  2. Main switchboard.
  3. A complete distribution system including all equipment and accessories.
  4. System grounding
  5. All work and chg utility company
- B. Services:
1. Incoming electrical 3 phase, 4 wire.

**1.02 SUBMITTALS****A. Shop drawings for the submitted for approval:**

1. Distribution panelboards, miscellaneous and devices.

**2.01 EQUIPMENT**

- A. Main switchboard shall and front accessible w covers. Grounding with the local utility company requirements.

**2.02 DISTRIBUTION PANELBOARDS**

- A. Panelboard shall be an rigidly and gauge of for cabinets. All panels with door locks, all key
- B. Bus structure shall be (
- C. Short circuit current r greater than the availi panelboard, but not i symmetric.
- D. Panelboards shall be as main lugs, main breake spacers and spacers as breakers as required manufactured by Gene Square D or Siemens.
- E. Provide a typewritten pc identifying the use of e circuits which remain.

**2.03 CONNECTIONS**

- A. All main feeder connect solderless connectors. splices shall be mc connectors - Minnesot lead WAGO/UTS

**3.01 INSTALLATION**

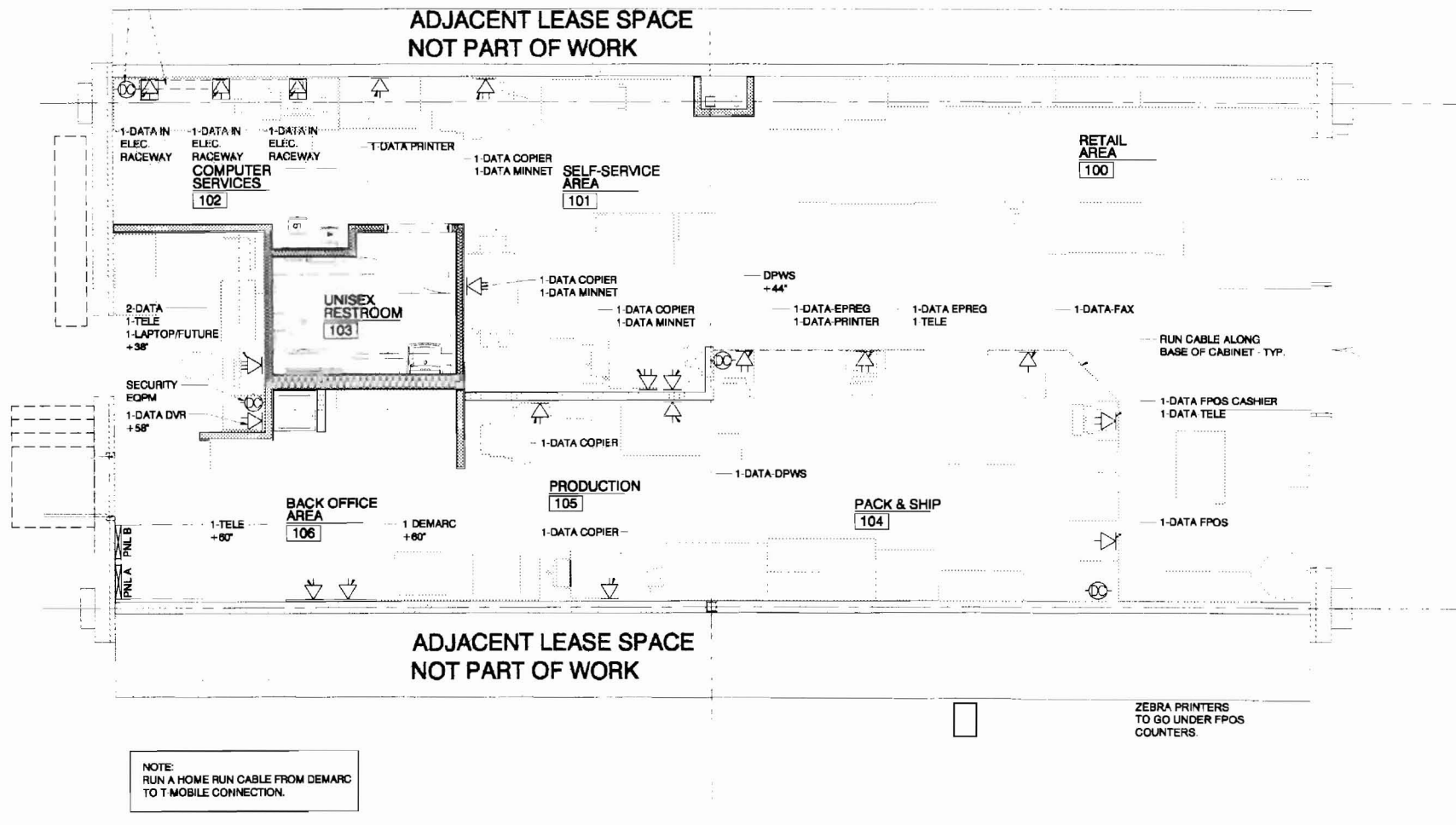
- A. System Grounding:
1. Shall be in strict c Electrical Code, Lo and in accordance of the Utility Comp for additional gang

**B. Electrical Service:**

1. This contractor at Company and info information, necc incorporate their i and obtain their material. include

- NOTES FOR WALL ADJACENT SYSTEMS FURNITURE:
1. LOCATE WALL MOUNTED J-BOX TO ACCOMMODATE 1-BJ BASE FEED. FIELD VERIFY.
  2. FOR DATA PROVIDE WALL MOUNTED J-BOX. USE FLEX CONDUIT FOR CONNECTION TO SYSTEMS FURNITURE. FIELD VERIFY LOCATION OF OUTLETS.
  3. FOR ELECTRICAL PROVIDE WALL MOUNTED J-BOX. USE FLEX CONDUIT FOR CONNECTION TO SYSTEMS FURNITURE.

FLOOR MOUNTED 8" RACEWAY FOR DATA AND ELEC. FURNISHED AND INSTALLED BY G.C. - SEE 31A-5.1



1

## DATA & COMMUNICATION PLAN

1/4" = 1'-0"

