

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



CITY OF PORTLAND BUILDING PERMIT

This is to certify that CENTRO HERITAGE SPE4/DOLLAR TREE

Located At 1064 BRIGHTON AVE

CBL: 263A-A-005-001

Job ID: 2011-09-2292-HVAC

has permission to Install Carrier Unit RTU's per structural plans provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statues of Maine and of the Ordinances of the City of Portland regulating the construction, maintenance and use of the buildings and structures, and of the application on file in the department.

Notification of inspection and written permission procured before this building or part thereof is lathed or otherwise closed-in. 48 HOUR NOTICE IS REQUIRED.

A final inspection must be completed by owner before this building or part thereof is occupied. If a certificate of occupancy is required, it must be

Fire Prevention Officer



Code Enforcement Officer / Plan Reviewer

10/19/14

THIS CARD MUST BE POSTED ON THE STREET SIDE OF THE PROPERTY
PENALTY FOR REMOVING THIS CARD

Closed

City of Portland, Maine - Building or Use Permit Application

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

| | | | |
|---|---|--|---|
| Job No: 2011-09-2292-HVAC | Date Applied: 9/21/2011 | CBL: 263A- A-005-001 | |
| Location of Construction: 1064 BRIGHTON AVE (1100) | Owner Name: Centro Heritage SPE4, LLC | Owner Address: 131 Dartmouth St Boston MA 02116 | Phone: |
| Business Name: | Contractor Name: HVAC Services | Contractor Address: 73 Bradley Drive, Westbrook, ME 04092 | Phone: 207-854-4822 |
| Lessee/Buyer's Name: Dollar Tree | Phone: | Permit Type: HVAC - HVAC | Zone: B-2 |
| Past Use: Retail - Dollar Tree | Proposed Use: Same - retail - install Carrier unit on roof | Cost of Work: 40000.00 | CEO District: |
| | | Fire Dept: <input checked="" type="checkbox"/> Approved w/conditions <input type="checkbox"/> Denied <input type="checkbox"/> N/A | Inspection: Use Group: <i>M</i> Type: <i>HVAC</i> <i>ASHRAE 62.1</i> |
| Proposed Project Description: Install Carrier rooftop unit | | Signature: <i>Capt. Feltone 10/3/11</i> | Signature: <i>JMB</i> <i>10/19/11</i> |
| | | Pedestrian Activities District (P.A.D.) | |

| | | | |
|---|--|---|---|
| Permit Taken By: | Zoning Approval | | |
| <p>1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.</p> <p>2. Building Permits do not include plumbing, septic or electrical work.</p> <p>3. Building permits are void if work is not started within six (6) months of the date of issuance. False informatin may invalidate a building permit and stop all work.</p> | Special Zone or Reviews <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetlands <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan <input type="checkbox"/> Maj <input type="checkbox"/> Min <input type="checkbox"/> MM Date: <i>OK w/condition</i> <i>9/22/11</i> | Zoning Appeal <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: | Historic Preservation <input checked="" type="checkbox"/> Not in Dist 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>ABU</i> |
| | 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 appication 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 |

BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 (ONLY)

or email: buildinginspections@portlandmaine.gov

With the issuance of this permit, the owner, builder or their designee is required to provide adequate notice to the city of Portland Inspections Services for the following inspections. Appointments must be requested 48 to 72 hours in advance of the required inspection. The inspection date will need to be confirmed by this office.

- **Please read the conditions of approval that is attached to this permit!! Contact this office if you have any questions.**
- **Permits expire in 6 months. If the project is not started or ceases for 6 months.**
- **If the inspection requirements are not followed as stated below additional fees may be incurred due to the issuance of a "Stop Work Order" and subsequent release to continue.**

1. Close In Elec/Plmb/Frame prior to insulate or gyp

2. Final Inspection

The project cannot move to the next phase prior to the required inspection and approval to continue, REGARDLESS OF THE NOTICE OR CIRCUMSTANCES.

IF THE PERMIT REQUIRES A CERTIFICATE OF OCCUPANCY, IT MUST BE PAID FOR AND ISSUED TO THE OWNER OR DESIGNEE BEFORE THE SPACE MAY BE OCCUPIED.



PORTLAND MAINE

Strengthening a Remarkable City, Building a Community for Life • www.portlandmaine.gov

Director of Planning and Urban Development
Penny St. Louis

Job ID: 2011-09-2292-HVAC

Located At: 1064 BRIGHTON
AVE

CBL: 263A- A-005-001

Conditions of Approval:

Zoning:

1. The underlying B-2 Zone has requirements regarding the maximum noise levels allowed. The proposed unit shall meet the following requirements. From 7:00 am to 9:00 pm, the maximum dBAs permitted is 60. From 9:00pm to 7:00 am, the maximum dBAs permitted is 55. It is the responsibility of the application agent to inform the property owner of these regulations. The City of Portland strictly enforces the level of sound generated on the property. The property owner may have to take mitigating steps to reduce noise produced by these units.

Building:

1. Separate permits are required for any electrical, plumbing, sprinkler, fire alarm, HVAC systems, heating appliances, commercial hood exhaust systems and fuel tanks. Separate plans may need to be submitted for approval as a part of this process.
2. Installation shall comply with ASHRAE 62.1 and 90.1, 2007 edition.
3. Equipment must be installed in compliance per the manufacturer's specifications and UL listing.

Fire:

1. Installation shall comply with City Code Chapter 10.
2. Fuel-fired boilers shall be protected in accordance with NFPA 101, *Life Safety Code*.
3. Installation shall comply with NFPA 211, *Standard for Chimneys, Fireplaces, Vents, and Solid Fuel-Burning Appliances*;
4. NFPA 54, *National Fuel Gas Code*;
5. NFPA 90A, *Standard for the Installation of Air-Conditioning and Ventilating Systems*;
6. NFPA 91, *Standard for Exhaust Systems for Air Conveying Vapors, Gases, Mists, and Noncombustible Particulate Solids*;
7. NFPA 70, *National Electrical Code*; and the manufacturer's published instructions.

0051721 Dollar Tree B-2

PL

cc'd 9/21 (23)



FILL IN AND SIGN WITH INK

APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT



263 AAS + y's ✓

To the INSPECTOR OF BUILDINGS, PORTLAND, ME.

The undersigned hereby applies for a permit to install the following heating, cooking or power equipment in accordance with the Laws of Maine, the Building Code of the City of Portland, and the following specifications:

Location / CBL 1100 Brighton Ave Pine Tree Plaza Use of Building Retail Date _____
 Name and address of owner of appliance Dollar Tree Stores Peter Spring
500 Volvo Parkway Chesapeake, VA 23320
 Installer's name and address HVAC SERVICES 73 Bradley Drive
West Brevard Me 04092 Telephone 854-4822

Location of appliance:

Basement Floor
 Attic Roof

Type of Fuel:

Gas Oil Solid

Appliance Name: CARRIER

U.L. Approved Yes No

Will appliance be installed in accordance with the manufacture's installation instructions? Yes No

IF NO Explain: _____

The Type of License of Installer:

Master Plumber # _____
 Solid Fuel # _____
 Oil # _____
 Gas # PNT 1138
 Other _____

Type of Chimney:

Masonry Lined
 Factory built NA

Metal
 Factory Built U.L. Listing # NA

Direct Vent
 Type NA UL# NA

Type of Fuel Tank

Oil 9/21/
 Gas

Size of Tank N/A

Number of Tanks N/A

Distance from Tank to Center of Flame N/A feet.

Cost of Work: \$ 39,500

Permit Fee: \$ 420

Approved

Approved with Conditions

Fire: _____
 Ele.: _____
 Bldg.: MS

See attached letter or requirement

Inspector's Signature _____ Date Approved _____

Signature of Installer [Signature]



CITY OF PORTLAND, MAINE

Department of Building Inspections

Original Receipt

7-21 20 11

Received from HVAC Services-

Location of Work 1100 Commercial Ave 49 Downtown
07500, 1st Floor Council Plaza

Cost of Construction \$ _____ Building Fee: _____

Permit Fee \$ _____ Site Fee: _____

Certificate of Occupancy Fee: _____

Total: \$3210

Building (IL) _____ Plumbing (I5) _____ Electrical (I2) _____ Site Plan (U2) _____

Other _____

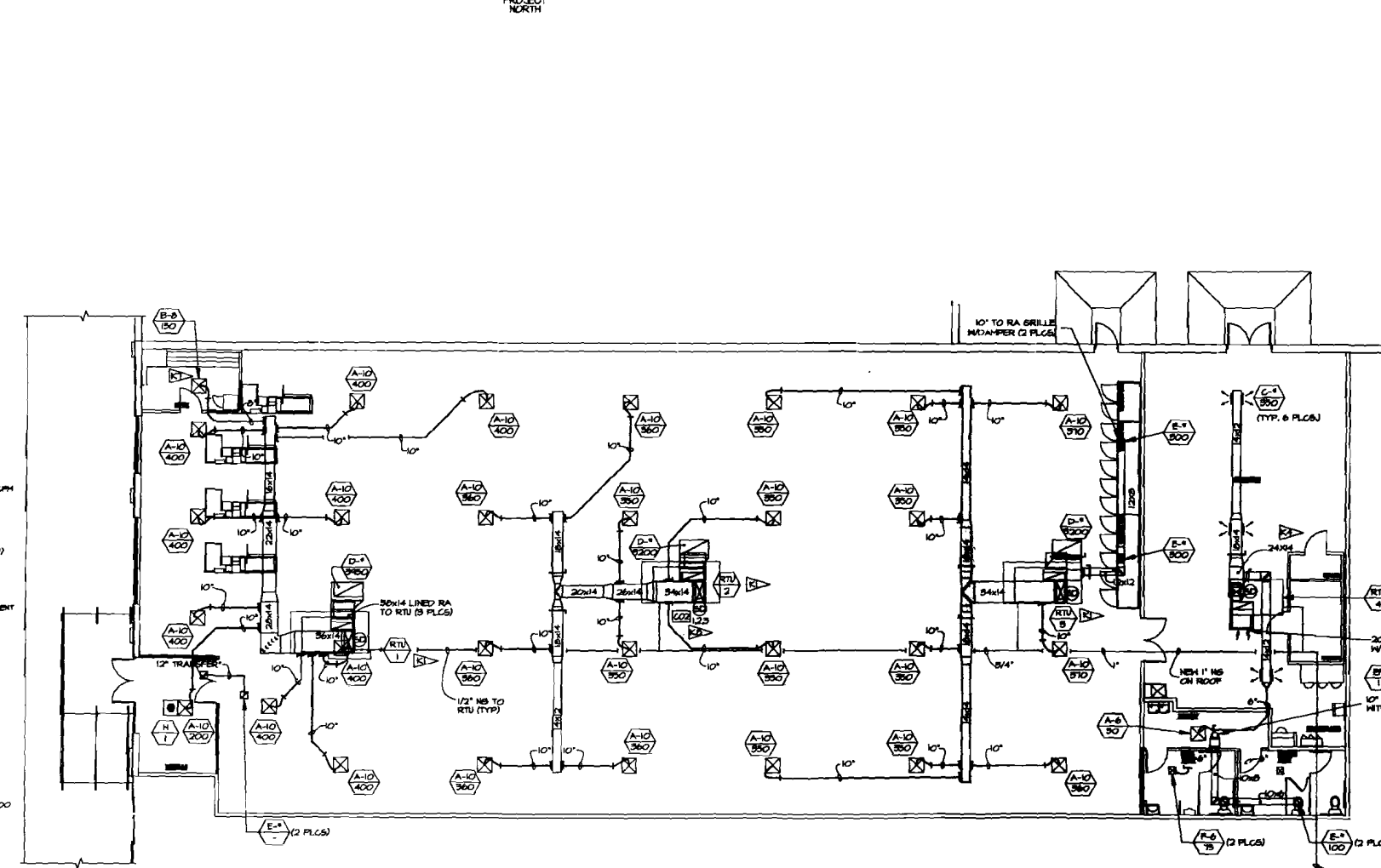
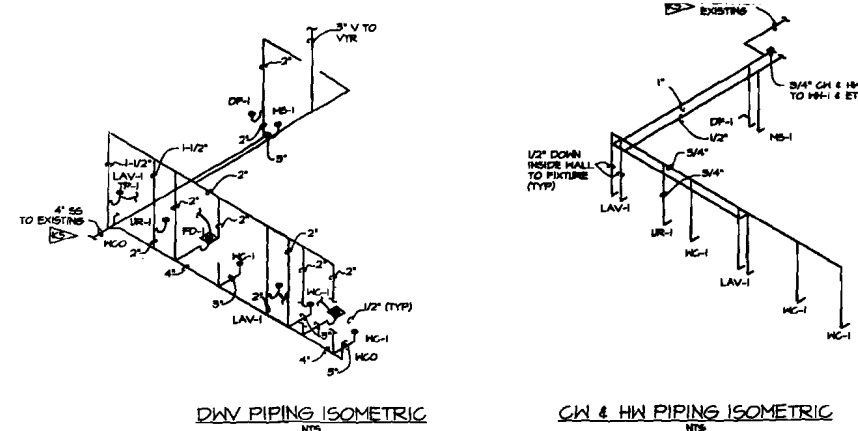
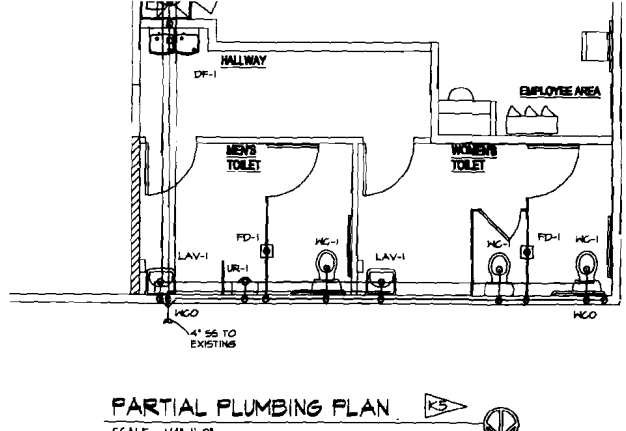
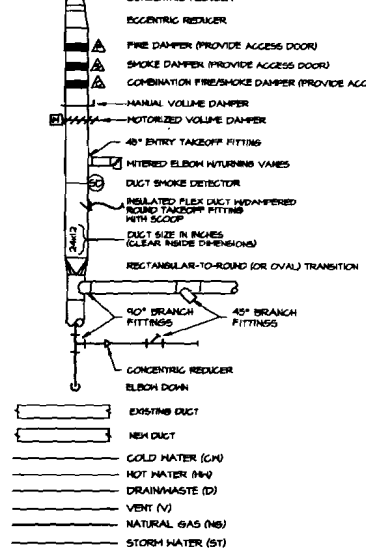
CBL: _____

Check #: 41134 Total Collected \$ 3210

**No work is to be started until permit issued.
Please keep original receipt for your records.**

Taken by: [Signature]

WHITE - Applicant's Copy
YELLOW - Office Copy
PINK - Permit Copy



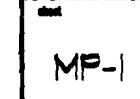
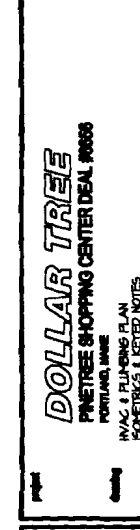
KEYED NOTES

- ▲ CONTRACTOR SHALL REMOVE EXISTING RTU DUCTWORK, ETC. COMPLETE THROUGHOUT WORK AREA. CONTRACTOR SHALL INSTALL NEW TENANT PROVIDED HVAC UNIT ON EXISTING CURB AND OPERATE CONTRACT SHALL PROVIDE AND INSTALL NEW INSULATED CURB ADAPTOR AS REQUIRED FOR NEW UNIT AND MODIFY EXISTING ROOF OPENING AS REQUIRED. CONTRACTOR SHALL PROVIDE NEW DUCTWORK, CONTROLS, AND ACCESSORIES AS INDICATED ON PLANS, SCHEDULE, AND NOTES.
- ▲ CONTRACTOR SHALL INSTALL NEW TENANT PROVIDED HVAC UNIT, PROVIDE AND INSTALL NEW CURB, PROVIDE NEW OPENING AND STRUCTURAL SUPPORT PER STRUCTURAL DRAWINGS. CONTRACTOR SHALL PROVIDE NEW DUCTWORK, CONTROLS, AND ACCESSORIES AS INDICATED ON PLANS, SCHEDULE, AND NOTES.
- ▲ PROVIDE AND INSTALL NEW NATURAL GAS SERVICE AND METER. COORDINATE WITH LOCAL UTILITY TO DETERMINE TOTAL HEN # 2 PIPING. PROVIDE UNION BETWEEN METER AND TENANT BRANCH WITH LUBRICATED PLUB VALVE ON TENANT SIDE OF UNION. EXISTING UTILITY METER RACK IS APPROXIMATELY 100 FEET TO REAR OF TENANT. BLOCK-OUT AND ALONG REAR WALL OF SHOPPING CENTER. GAS PIPING DESIGN IS PER IFGC TABLE 402.4.2 FOR 60 PSI DEVELOPED LENGTH.
- ▲ PROVIDE AND INSTALL DUCTWORK IN STOCKROOM AT 12V-1. VERIFY INSTALLATION, ROUTING, AND CLEARANCE PRIOR TO START OF WORK.
- ▲ CONTRACTOR SHALL OBTAIN A COPY OF ALL PLUMBING SPEC SHEETS PRIOR TO INSTALLATION. CONTRACTOR SHALL REVIEW ALL PLUMBING BASED ON THE SPEC SHEET. CONTRACTOR SHALL PROVIDE WATER AND SEWER PIPING TO EXISTING APPROXIMATELY 25 FEET TO RIGHT OF TENANT BRIDGE IN ADJACENT TENANT SPACE. CONTRACTOR SHALL PROVIDE WATER SUB-METER WITH REMOTE READY FOR LANDLORD AND LOCAL UTILITY REQUIREMENTS UPSTREAM OF BACKFLOW PREVENTER.
- ▲ REMOVE EXISTING TOILET FIXTURES, DRAINS, PIPING, ETC. COMPLETE THROUGHOUT TENANT SPACE. INSTALL NEW TOILETS PER TENANT PLANS. GARBAGE NEW TOILETS TO EXISTING COLD WATER SUPPLY AND SANITARY SEWER. ALL EXISTING DRAINS, VENTS, AND SUPPLY PIPING SHALL BE REMOVED COMPLETE TO ABOVE CEILING, INSIDE WALLS, AND BELOW FINISHED FLOOR AND CARPET. PIPING REMAINS SHALL NOT INHIBIT THE USE OF PIPING TO REPAIR.
- ▲ HANG TRAP RISER ABOVE OFFICE AREA FOR FULL VERTICAL DISCHARGE INTO OFFICE DRAIN.
- ▲ TENANT'S CONTRACTOR SHALL INSTALL TENANT PROVIDED CO2 SENSOR ON CEILING AT 6'-0" A.F.P. THIS SENSOR SHALL CONTROL 100% FRESH AIR. SEE EHS SYSTEM SHEETS FOR MORE INFORMATION.

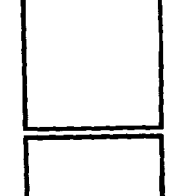
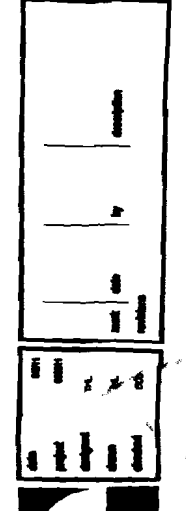
NOTE: HVAC TEMPERATURE SENSORS. CONTRACTOR SHALL REFER TO THE TEMPERATURE SENSOR MOUNTING DETAIL FOR PLACEMENT AND INSTALLATION INSTRUCTIONS PRIOR TO INSTALLING.

NOTE: SPRINKLER SYSTEM IS EXISTING WITHIN TENANT SPACE. SPRINKLER PIPING SHALL BE MODIFIED TO ACCOMMODATE NEW TENANT LAYOUT IN ACCORDANCE WITH NFPA & LANDLORD REQUIREMENTS.

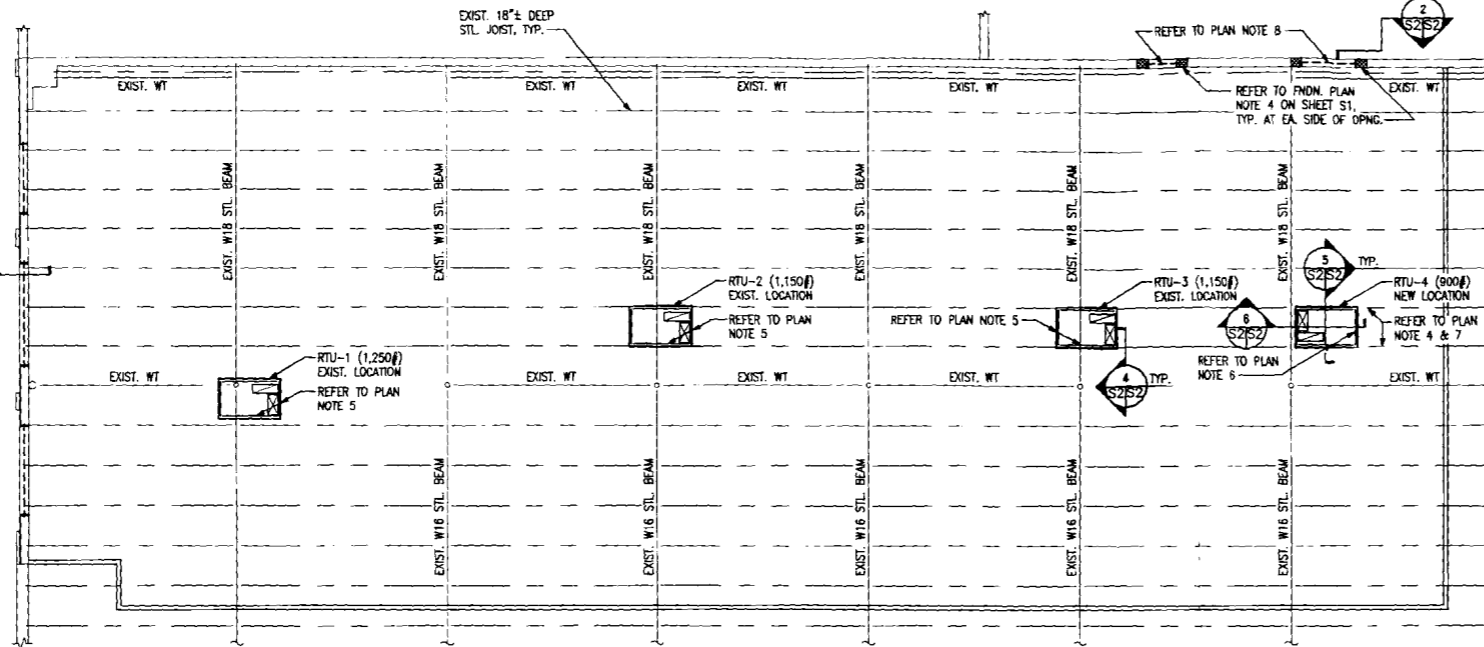
NOTE: CONTRACTOR SHALL BE NOTED AND INSTALLED AS INDICATED ON CONTRACT DOCUMENTS. NO CHANGES SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL FROM DOLLAR TREE. FAILURE TO DO SO SHALL RESULT IN CONTRACTOR REMOVING INSTALLED SYSTEM AND REPLACING WITH NEW AS SHOWN AT NO ADDITIONAL COST TO DOLLAR TREE.



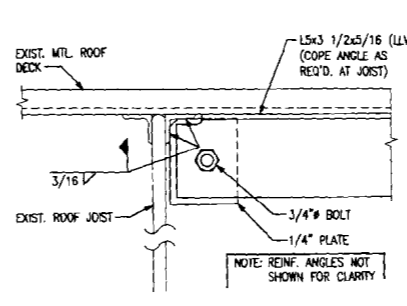
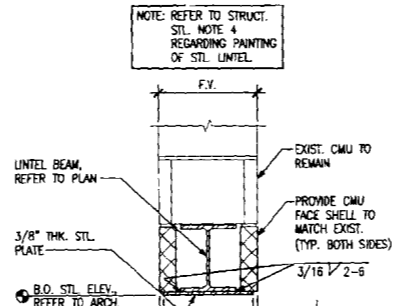
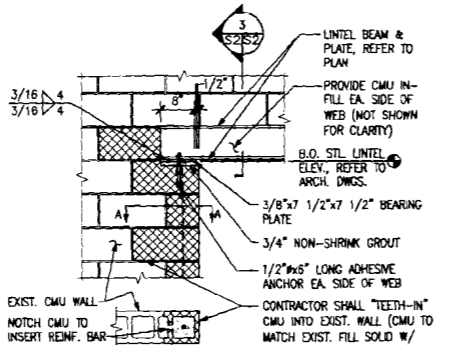
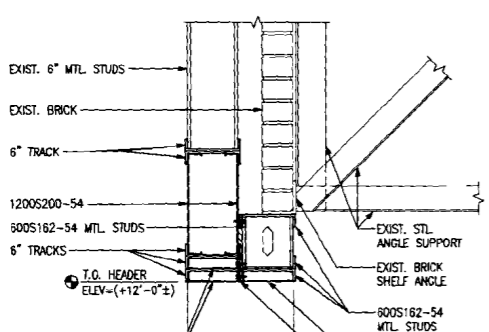
1. Contractor shall examine the project site and existing conditions under satisfactory limits of existing conditions under which he will be obligated to operate in performing his part of the work. In any manner affect the work under the contract. The contractor shall cooperate with other trades so that the installation of all equipment may be properly coordinated.
 2. All equipment furnished shall fit the space available with connections etc. in the required locations and with adequate space for operation and service.
 3. All piping, except fixture supplies, shall be coordinated, cut accurately by exact measurements taken at the building and marked carefully into place without forcing or springing. Changes in place without forcing or springing. Changes in changes in pipe size shall be made with reducing fittings.
 4. No water or drain lines shall be permitted over electrical or telecommunication panels or in telecommunication rooms.
 5. Provide protective metal cover plates over studs and joints where pipes penetrate close to edge of stud or joist.
 6. Provide chrome plated equipment where pipes pass through rooms, halls 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 wiring of pipe or equipment.
 8. All openings in the roof shall be flashed watertight per the instruction of the Landlord's roofing contractor to maintain roof WARRANTY.
- 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 1/2" galv. CP Brass where exposed to view extending to wall. Horizontal 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 galvanized together where possible and the vent of equivalent size. Vents shall be flashed watertight per the instruction of the Landlord's roofing contractor to maintain roof WARRANTY.
 4. Casework, some size as pipe, shall be installed in wall and extend 12" above top of change of direction and at every 100 feet of run weather shown on the drawings or not shall be as specified in full code. When occurring in finished wall or floor, set flush with surrounding surface.
 5. Casework on a minimum shall be located so that oil and noise from within or under building are accessible for cleaning without passing through more than one ninety degree or less than ninety degree bend. Cleanout covers shall be set flush with floors and grade with exposed plastic net at walls.
- 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 shutoff valves, hells or approved equal, gate valve, above grade below pressure regulator.
 3. Install accessible hot and cold water stops at all fixtures.
 4. Install electric isolators where incompatible piping materials come in contact.
 5. Install temperature and pressure relief valves as required by Code.
 6. Install water pressure regulator, "hells" or "hells", where available with pressure exceeds 80 psi.
- NATURAL GAS**
1. Install natural gas piping as indicated on drawings and as required by local codes.
 2. Install shutoff valves close to fixture and appliance connections and ahead union and air leg at rooftop walls.
 3. Unions shall be installed on both sides of all equipment, and where required to facilitate removal of equipment.
 4. Provide gas pressure regulating valves with turned down vents at all gas appliances when distribution pressure is greater than 1" WC.
 5. Provide gas main shutoff valve with lever type handle placed on an inside wall of meter.
 6. Place all exterior piping including piping installed on roof with two coats of rust inhibiting exterior paint.
 7. Support piping on roof per instruction of Landlord's roofing contractor to maintain roof WARRANTY.
- APPROVED INSULATION**
1. Approved insulation blocking shall be placed between sheet metal jacket and bottom of the pipe where jacket alone cannot prevent condensing. Insulation jacket or vapor barrier shall be sealed after insulating blocking (see hangers, supports and sleeves).
- HANGERS, SUPPORTS AND SLEEVES**
1. All over, vents, hot and cold water, and natural gas piping exposed, above grade and in finished areas, shall be supported in place with securely fastened solid pipe hangers not over 2'-0" apart and at each change in direction, 90° or on cast iron pipe.
 2. Pipe hangers shall be installed around the outside of insulation with vapor barrier, and hangers shall be protected against crushing by sheet metal jacket of proper size and weight.
 3. All water piping running through floors or walls shall be isolated from the penetration with a sleeve. Maintain the the rating of all wall and floor penetrations by use of approved 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.
- TESTING**
1. Driv, 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 100 psi for a period of 15 minutes before any use of system is made for domestic purposes. It shall be identified by slowly filling with water to which a dyeing agent has been injected at a rate of 50 p.p.m. of dye, which shall be allowed to stand in the piping for at least 24 hours, after which leaks for residual dyeing shall not be less than five(5) p.p.m. of residual dyeing at every water outlet in the building. If the residual is less than five ppm, the dyeing shall be repeated until the required residual is obtained at every outlet. After required residual is obtained at every outlet, the system shall be flushed until the dyeing level at every outlet is reduced to that of incoming water supply.
 3. Gas lines shall stand a pressure of 25 psi for a period of 15 minutes without perceptible drop.
 4. All testing shall be performed by contractor at his own expense.
- WARRANTY**
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 by tenant.
- FIRE PROTECTION STANDARDS**
- THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE TO RETAIN AND PAY FOR THE PROFESSIONAL OF RECORD FOR THE FIRE PROTECTION WORK.
- THE SCOPE OF WORK SHALL INCLUDE ALL MATERIALS, EQUIPMENT, LABOR, DESIGN, LAYOUT, DETAILS, DRAWINGS, AND DOCUMENTS AS REQUIRED TO MEET THE REQUIREMENTS OF ALL GOVERNING CODES, REGULATIONS, THE INSURANCE INDUSTRY'S, AND LOCAL OFFICIALS.
- A COMPLETE SET OF ALL REQUIRED DOCUMENTS SHALL BE PROVIDED AND SUBMITTED TO THE PROPER AUTHORITIES WITHIN THIRTY (30) DAYS OF CONTRACT AWARD.
- CONTRACTOR SHALL VISIT THE SITE TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS PRIOR TO SUBMITTING BID.
- ALL FIRE PROTECTION WORK SHALL BE SCHEDULED IN ADVANCE WITH THE LANDLORD'S FIELD REPRESENTATIVE. FIRE PROTECTION SYSTEM SHALL BE FULLY OPERATIONAL WHEN THE CONTRACTOR IS NOT PRESENT AT THE PROJECT SITE.
- THE LANDLORD'S DESIGN CRITERIA SHALL BE CONSIDERED PART OF THESE SPECIFICATIONS.
- THE CONTRACTOR SHALL EXTEND THE SPRINKLER SYSTEM AND PROVIDE DRY PREVENT HEADS IN HALL-K-11 COOLER AND PRESSER SECTIONS PER NFPA 13 REQUIREMENTS.







PROJECT
ROOF FRAMING PLAN
 1/8" = 1'-0"
 NORTH

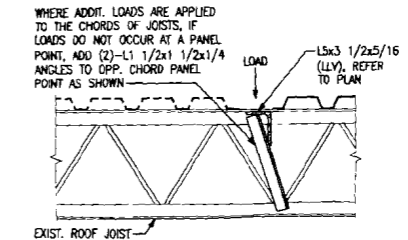


ROOF FRAMING PLAN NOTES:

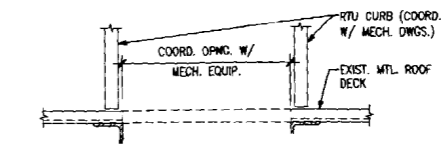
- REFER TO THE ARCHITECTURAL DRAWINGS FOR DEMOLITION NOT NOTED.
- CONTRACTOR SHALL COORDINATE DIMENSIONS NOT NOTED WITH THE ARCHITECTURAL DRAWINGS.
- CONTRACTOR SHALL IN NO WAY DAMAGE ANY BUILDING COMPONENT TO REMAIN. IF DAMAGE OCCURS, IT SHALL BE REPAIRED OR REPLACED (TO THE SATISFACTION OF THE OWNER) AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL REINFORCE THE FIRST EIGHT (MINIMUM) WEB MEMBERS OF EXISTING STEEL JOIST WITH L1 1/2x1 1/2x1/4. REFER TO SECTION 6 ON THIS SHEET FOR ADDITIONAL INFORMATION.
- IF SUPPORT ANGLES ARE NOT PRESENT, PROVIDE L5x3 1/2x5/16 AROUND ALL FOUR SIDES OF MECHANICAL CURB AS REQUIRED AT EXISTING ROOF OPENINGS. REFER TO SECTION 4 AND 5 ON THIS SHEET FOR ADDITIONAL INFORMATION.
- PROVIDE L5x3 1/2x5/16 AROUND ALL FOUR SIDES OF MECHANICAL CURB AS REQUIRED AT NEW ROOF OPENINGS. REFER TO SECTION 4 AND 5 ON THIS SHEET FOR ADDITIONAL INFORMATION.
- REINFORCE EXISTING STEEL JOISTS WITH L1 1/2x1 1/2x1/4 AT L5x3 1/2x5/16 LOCATIONS. REFER TO TYPICAL JOIST REINFORCING DETAIL ON THIS SHEET.
- PROVIDE W8x21 STEEL BEAM LINTEL WITH 3/8" THICK CONTINUOUS PLATE OVER NEW DOOR OPENING. PLATE WIDTH SHALL EQUAL WALL WIDTH, MINUS 1".

STRUCTURAL STEEL NOTES:

- ALL STRUCTURAL WIDE FLANGE SHAPES SHALL BE IN ACCORDANCE WITH ASTM A992, GRADE 50 KSI SPECIFICATIONS. ALL STEEL ANGLES, PLATES AND MISCELLANEOUS MEMBERS SHALL BE IN ACCORDANCE WITH ASTM A36 GRADE 36 KSI SPECIFICATIONS. STRUCTURAL TUBING SHALL BE IN ACCORDANCE WITH ASTM A500 GRADE B.
- ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE NINTH EDITION OF THE MANUAL OF STEEL CONSTRUCTION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
- ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1.
- STRUCTURAL STEEL EXPOSED TO WEATHER SHALL BE PAINTED WITH TITANUM-EPOLKOLINE, SERIES 86, PRIME AND INTERMEDIATE COATS AND ENDURA-SHIELD II, SERIES 1074, FINISH COAT. TOTAL PAINT THICKNESS SHALL NOT BE LESS THAN 10 MILS. ALL PAINTING SHALL BE DONE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTION.



TYPICAL JOIST REINFORCING DETAIL
 NOT TO SCALE



| NO. | DATE | BY | CHKD. | DESCRIPTION |
|-----|------|----|-------|-------------|
| | | | | |
| | | | | |

