

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

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

Permit No: 05-1366	Issue Date: OCT 20 2005	CEB#: 038 D015001
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Location of Construction: 0 FREE ST	Owner Name: CUMBERLAND COUNTY RECR	Owner Address: 1 CIVIC CENTER SQ	Phone: 544822
Business Name:	Contractor Name: HVAC Services, Inc.	Contractor Address: 73 Bradley Drive	Phone: 544822
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	Zone:

Past Use: Commercial/ Pirates Locker Room	Proposed Use: Cumberland County Civic Ctr./ Install a Tran airhandler for Pirates Locker Room	Permit Fee: \$84.00	Cost of Work: \$6,500.00	CEO District: 1
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Proposed Project Description: Install a Tran airhandler for Pirates Locker Room	FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied INSPECTION: Use Group: 1 Type: HVAC Signature: JUK p.f.d 9-21-05 Signature:
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Permit Taken By: Idobson	Date Applied For: 09/15/2005	<b>Zoning Approval</b>
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1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules. 2. Building permits do not include plumbing, septic or electrical work. 3. 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..	Special Zone or Reviews <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:	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 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:
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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

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<b>Location of Construction:</b> 0 FREE ST	<b>Owner Name:</b> CUMBERLAND COUNTY RECR	<b>Owner Address:</b> 1 CIVIC CENTER SQ	<b>Phone:</b>
<b>Business Name:</b>	<b>Contractor Name:</b> HVAC Services, Inc.	<b>Contractor Address:</b> 73 Bradley Drive Westbrook	<b>Phone</b> (207) 854-4822
<b>Lessee/Buyer's Name</b>	<b>Phone:</b>	<b>Permit Type:</b> HVAC	

<b>Proposed Use:</b> Cumberland County Civic Ctr./ Install a Tran airhandler for Pirates Locker Room	<b>Proposed Project Description:</b> Install a Tran airhandler for Pirates Locker Room
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**Dept:** Zoning      **Status:** Approved      **Reviewer:** Tammy Munson      **Approval Date:** 10/20/2005  
**Note:**      **Ok to Issue:**

**Dept:** Building      **Status:** Approved      **Reviewer:** Tammy Munson      **Approval Date:** 10/20/2005  
**Note:**      **Ok to Issue:**

**Dept:** Fire      **Status:** Approved      **Reviewer:** Jay Kelley      **Approval Date:** 09/21/2005  
**Note:**      **Ok to Issue:**

1) Istall to manufactures specifications



FILL IN AND SIGN WITH INK

# APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT



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 Portland Private Locker Rm Use of Building \_\_\_\_\_ Date 9/15/05  
 Name and address of owner of appliance Cumberland County Civil Center  
1 Civil Center Sq. Portland ME 04101  
 Installer's name and address HVAC SERVICES INC  
73 Bradley Dr. Westbrook ME 04092 Telephone 854 4822

### Location of appliance:

- Basement  Floor  
 Attic  Roof

### Type of Fuel:

- Gas  Oil  Solid

Appliance Name: Trane Airhandler

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 # \_\_\_\_\_  
 Other \_\_\_\_\_

### Type of Chimney:

- Masonry Lined  
 Factory built \_\_\_\_\_  
 Metal  
 Factory Built U.L. Listing # \_\_\_\_\_  
 Direct Vent  
 Type \_\_\_\_\_ UL# \_\_\_\_\_

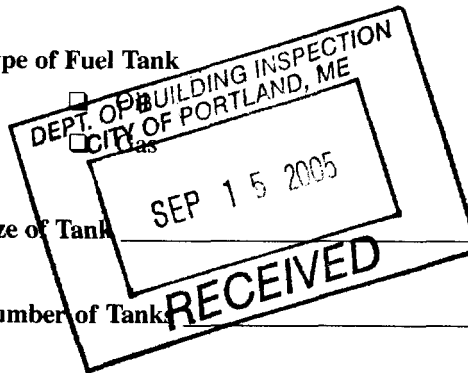
### Type of Fuel Tank

\_\_\_\_\_  
 Size of Tank \_\_\_\_\_  
 Number of Tanks \_\_\_\_\_

Distance from Tank to Center of Flame \_\_\_\_\_ feet.

Cost of Work: \$ 6,500 -

Permit Fee: \$ 840 / 100



### Approved

Fire: \_\_\_\_\_  
 Ele.: \_\_\_\_\_  
 Bldg.: \_\_\_\_\_

### Approved with Conditions

- See attached letter or requirement

Signature of Installer [Signature] Inspector's Signature \_\_\_\_\_ Date Approved \_\_\_\_\_



**TRANE**

# Submittal

Trane  
A Division of American Standard Inc.

**Prepared For:**  
All Bidders

**Date:** September 07, 2005

**Customer P.O. Number:**  
**Customer Project Number:**

**Sold To:**

**Job Number:**  
**Job Name:**  
HVAC Services - Rob - Portland Pirates

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Trane is pleased to provide the enclosed submittal for your review and approval.

## Product Summary

Qty	Product
1	Split System Air Conditioning Units (Small)

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The attached information describes the equipment we propose to furnish for this project, and is submitted for your approval.

**Tag Data - Split System Air Conditioning Units (Small) (Qty: 1)**

Item	Tag(s)	Qty	Description	Model Number
A1	No Tag	1	Air Handler 460	----- TWE060A4

**Product Data - Split System Air Conditioning Units (Small)**

Item: A1 Qty: 1

- Air Handler Unit
- 5 Ton - Nominal Gross Cooling Capacity
- Single refrigerant circuit
- 460 Volt 3 Phase 60 Hertz
- 25 kW Electric Heater for 460/575V 3 Phase 60 Hertz (Fld)

**Unit Dimensions - Split System Air Conditioning Units (Small)**  
**Item: A1 Qty: 1**

**AIR HANDLER ELECTRICAL / GENERAL DATA (5-10 Ton)**

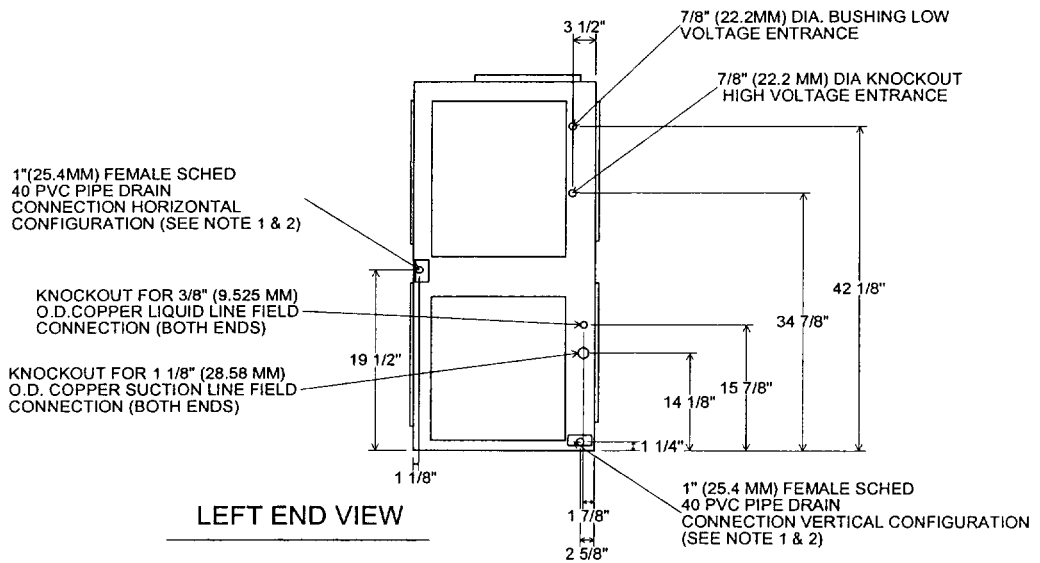
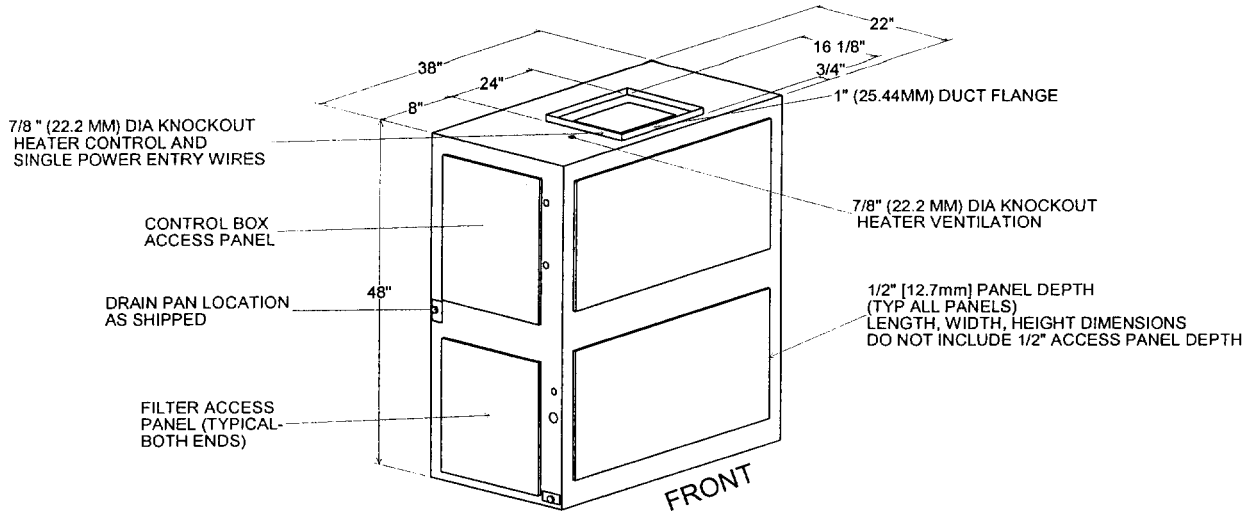
Tons	5.00	[ 17.67 kW]	
Unit Operating Voltage Range	414	— 506	
Unit Primary Voltage	460		
Unit Secondary Voltage			
Unit Hertz	60		
Unit Phase	3		
Minimum Circuit Ampacity	40		
Maximum Fuse Size or Circuit Breaker	40		
INDOOR MOTOR			Field Installed Oversized Motor
Number	1		
Horsepower	0.75	— [ 0.56 kW]	— [ kW]
Motor Speed (RPM)	1725		
Phase	3		
Indoor Motor Full Load Amps	1.3	—	—
Locked Rotor Amps	8.2	—	—
FILTERS - Type	Throwaway		
Furnished	Yes		
Recommended Size	(1) 16 x 20 x 1 [406.4 x 508.0 x 25.4mm] (1) 20 x 20 x 1 [508.0 x 508.0 x 25.4mm]		
REFRIGERANT Type	R-22		

NOTES:

1. Maximum (HACR per NEC) Circuit Breaker sizing is for installations in the United States only.

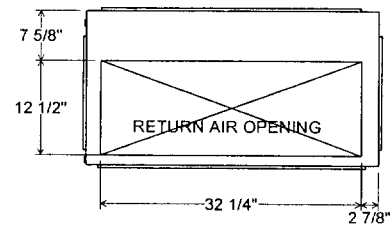
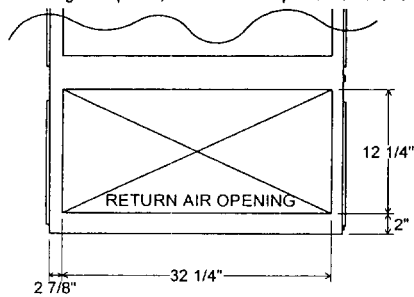
**Unit Dimensions - Split System Air Conditioning Units (Small)**

Item: A1 Qty: 1



**NOTES:**

1. Removable drain pan and attached drain connection may be installed on either end of the vertical or horizontal configuration.  
Plastic drain pan access plate on the end of unit opposite drain connection must be removed to slide drain pan out of unit for cleaning. Access plate must be re-installed after sliding drain pan back into unit.
2. If periodic drain pan cleaning is required, allow room for partial removal of pan on drain connection end of unit.

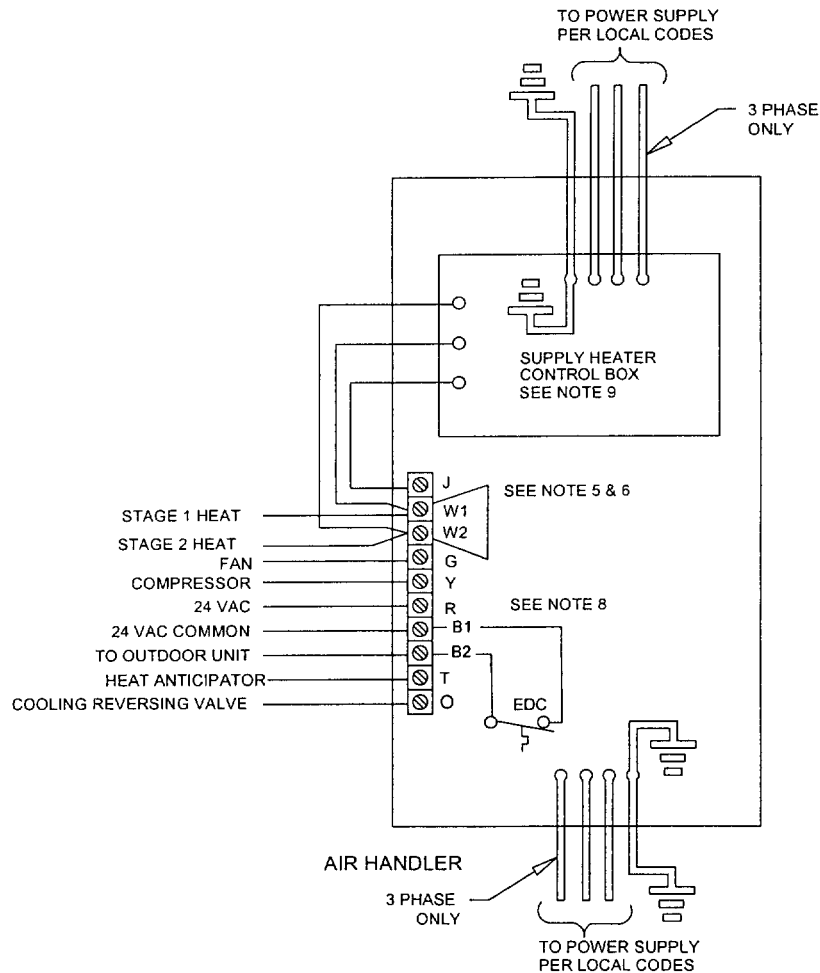


AIR HANDLING UNIT

TWE060A400C

**Field Wiring - Split System Air Conditioning Units (Small)**

Item: A1 Qty: 1



INTER-COMPONENT WIRING

	}	24 VOLT	FACTORY WIRING
		LINE VOLT	
	}	24 VOLT	FIELD WIRING
		LINE VOLT	

NOTES:

1. POWER WIRING AND GROUNDING OF EQUIPMENT MUST COMPLY WITH LOCAL CODES.
2. BE SURE POWER SUPPLY AGREES WITH EQUIPMENT NAMEPLATE.
3. LOW VOLTAGE WIRING TO BE 18 A.W.G. MINIMUM CONDUCTOR.
4. USE COPPER CONDUCTORS ONLY.
5. IF TWO STAGE ELECTRIC HEATERS AND THERMOSTAT ARE USED, REMOVE JUMPER BETWEEN W1 AND W2.
6. FOR SINGLE STAGE ELECTRIC HEATER, OMIT WIRE BETWEEN W2 AND THERMOSTAT AND W2 AND ELECTRIC HEATER.
7. FOR COOLING ONLY, OMIT WIRES BETWEEN W1,W2 AND THERMOSTAT AND OMIT ELECTRIC HEATER.
8. IF THE EDC SWITCH IS TO BE CONNECTED IN THE CIRCUIT, THE EDC WIRE MUST BE REMOVED FROM THE B1 TERMINAL AND RECONNECTED TO THE "Y" TERMINAL ON THE INDOOR SECTION LOW VOLTAGE TERMINAL BOARD AS SHOWN.
9. WHEN ELECTRIC HEATER ACCESSORY IS USED, SINGLE POINT POWER ENTRY OR DUAL POINT POWER ENTRY IS FIELD OPTIONAL. SINGLE POINT POWER ENTRY OPTION IS THROUGH ELECTRIC HEATER ONLY.





ARCHITECTURE  
ENGINEERING  
PLANNING

September 15, 2005

Michael Nugent  
Inspection Services Manager  
City of Portland  
City Hall Rm 315  
389 Congress Street  
Portland ME 04101

RE: Cumberland County Civic Center Locker Room Renovation and Addition

Mr. Nugent,

I am writing in order to address the addition of HVAC equipment to the Cumberland County Civic Center within the Locker Room Renovation and Addition project.

HVAC Services of Westbrook proposes to hang a Trane Split System A/C unit with a weight of 232 pounds from the underside of the existing concrete slab using four Red Head 3/8" diameter drop in anchors and 1/4" diameter threaded rod. Because of the shallow embedment requirements, locations for placement are governed only by unit requirements.

I have reviewed the equipment data sheets and method of installation and find that the loads applied to the structure are within the Live Load capacities of the existing building.

If you have any questions regarding the above, please feel free to call me at my office, 772-3846.

Sincerely,

A handwritten signature in black ink that reads "Andrew Bradley". The signature is written in a cursive, flowing style.

Andrew Bradley, P.E.  
Structural Engineer

144 Fore Street  
PO Box 618  
Portland, Maine 04104  
☎ 207 772-3846  
☎ 207 772-1070  
www.smrinc.com

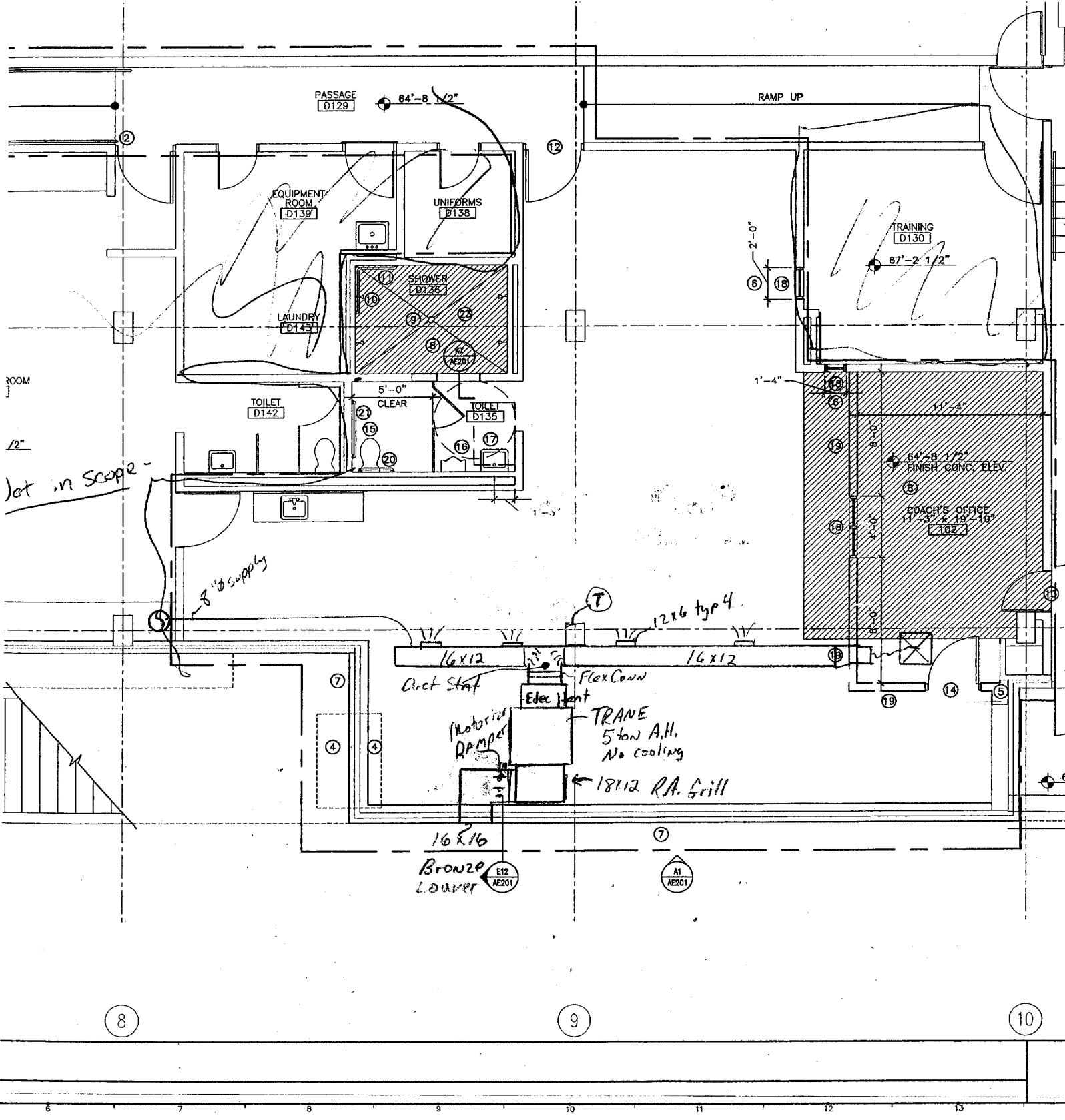
CC: PSS, FILE 05049\22

14. UNO.  
 HIS LOCATION  
 4" ABOVE LEVEL  
 ABOVE FLOOR  
 AND TRANSITION  
 PROVIDE SLEEVES  
 TO BE  
 TO INFIL  
 TING CONCRETE

- 8 TOP WITH CONCRETE TO MATCH SLAB HEIGHT OF EXERCISE ROOM AT HATCHED AREA. AT SHOWER PITCH CONCRETE TO DRAIN AT 1:50 OR LESS.
- 9 EXTEND DRAIN PIPE AND INSTALL NEW DRAIN COVER.
- 10 PROVIDE A SHOWER SPRAY UNIT, COMPLYING WITH ADA, WITH A HOSE AT LEAST 60" LONG. ENSURE THAT THE CONTROL IS BETWEEN 36" AND 48" ABOVE FINISH FLOOR.
- 11 PROVIDE BOBRICK #B-68137, OR EQUAL, GRAB BAR MOUNTED AT 36" ABOVE FINISH FLOOR.
- 12 IN EXISTING MASONRY OPENING, PROVIDE NEW HOLLOW METAL DOOR OR REVISE EXISTING DOOR IF FEASIBLE TO REVERSE SWING AS SHOWN.
- 13 IN EXISTING MASONRY OPENING, PROVIDE NEW HOLLOW METAL DOOR OR REVISED EXISTING DOOR IF FEASIBLE TO ACCOMMODATE RAISE IN CONC. SLAB IN COACH'S OFFICE.

- COORDINATE HEIGHT WITH EXISTING CONDITIONS.
- 15 REINSTALL EXISTING TOILET AT 17" HIGH TO TOP OF TOILET SEAT.
- 16 REINSTALL EXISTING URINAL AT LOCATION SHOWN, AT A HEIGHT OF 17" TO RIM.
- 17 INSTALL ADA COMPLIANT SINK AT LOCATION SHOWN, AT A HEIGHT OF 34" TO THE RIM. A CLEAR RECTANGULAR FLOOR AREA 30" X 48", AS SHOWN, IS REQUIRED AT THE SINK.
- 18 PROVIDE HOLLOW METAL WINDOWS WHERE INDICATED ON DRAWINGS. UNIT WIDTH TO BE AS SHOWN. COORDINATE VERTICAL DIMENSIONS WITH EXISTING CONSTRUCTION. SILL HEIGHT TO BE ABOUT 3'-4" ABOVE FINISH FLOOR OF TRAINING ROOM OR COACH'S OFFICE. HEAD HEIGHT TO BE BETWEEN 6'-8" AND 7'-4" ABOVE FINISH FLOOR ALIGN TOP OF WINDOW HEAD WITH TOP OF DOOR HEADS WHEN POSSIBLE.
- 19 6" CMU PARTITION.

- FLANGE AND AT
- 21 PROVIDE 42" GRAB BAR INSTALL 12" FROM FLANGE AND AT
- 22 INFILL OPENING
- 23 PROVIDE CERAMIC TILE OWNER FOR TILE



lot in scope -

8" supply

16x12 Duct Stat  
 Elec Vent  
 Motorized Ramper  
 Flex Conn  
 TRANE 5 ton A.H. No cooling  
 18x12 RA. Grill  
 16x16 Bronze Louver  
 E12 AE201  
 A1 AE201

8

9

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