DUCTWORK & ACCESSORIES:

SHEETMETAL DUCTWORK ALL DUCTWORK TO BE RIGID SHEETMETAL CONSTRUCTED FROM GALVANIZED SHEET STEEL IN ACCORDANCE WITH SMACNA LOW VELOCITY DUCT CONSTRUCTION STANDARDS. FIBERGLASS DUCTBOARD IS NOT ALLOWED. ALL EXPOSED DUCTWORK TO BE ROUND, SPIRAL, OR RECTANGULAR LOCK-SEAM TYPE, AS SHOWN ON HVAC PLAN SHEET M2.0. ASSEMBLE AND INSTALL DUCTWORK IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICE FOR ACHIEVING AIR TIGHT (5% LEAKAGE) AND NOISELESS (NO OBJECTIONABLE NOISE SYSTEMS, CAPABLE OF PERFORMING EACH INDICATED SERVICE. FURNISH ALL REQUIRED DAMPERS, TRANSITIONS, CONNECTIONS TO AIR TERMINALS. AND OTHER ACCESSORIES NECESSARY FOR A COMPLETE OPERATING SYSTEM. NO VARIATION OF DUCT CONFIGURATION OR SIZES WILL BE PERMITTED

EXCEPT BY PERMISSION FROM THE ENGINEER.

SEAL ALL LONGITUDINAL AND TRANSVERSE JOINTS WITH A NON-HARDENING, NONMIGRATING MASTIC OR LIQUID ELASTIC SEALANT OF A TYPE RECOMMENDED BY THE MANUFACTURER FOR SEALING JOINTS AND SEAMS IN SHEET METAL DUCTWORK. COVER ALL FIELD JOINTS, JOINTS AROUND SPIN-IN FITTINGS AND FASTENING SCREWS WITH MASTIC.

PROVIDE HOT-DIPPED GALVANIZED STEEL, FASTENERS, ANCHORS. RODS, STRAPS, TRIM, AND ANGLES FOR SUPPORT OF DUCTWORK.

PROVIDE OPPOSED-BLADE, MULTI-LEAF VOLUME CONTROL DAMPERS WHERE INDICATED ON DRAWINGS AND AT POINTS ON LOW PRESSURE SUPPLY, RETURN AND EXHAUST DUCTS WHERE BRANCHES ARE TAKEN FROM LARGER DUCTS. PROVIDE UL LISTED AND FIRE/SMOKE DAMPERS WHERE REQUIRED AND IN ACCORDANCE WITH NFPA AND LOCAL CODES. PROVIDE CONVENIENTLY LOCATED ACCESS DOORS OF AMPLE SIZE AND QUANTITY FOR SERVICING THE DAMPERS.

GRILLES. REGISTERS & DIFFUSERS

GRILLES, REGISTERS AND DIFFUSERS SHALL BE MANUFACTURED BY TITUS AND SHALL BE GC SUPPLIED (UON). DIFFUSERS SHALL BE INSTALLED AS INDICATED ON THE DRAWINGS AND SCHÈDULÉS. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS ITEMS NECESSARY FOR A COMPLETE AND PROPER INSTALLATION IN THE TYPE OF CEILING AND WALLS USED IN THIS PROJECT.

PROVIDE EXTERNAL THERMAL INSULATION WITH AN INTEGRAL VAPOR BARRIER FACING OF SUFFICIENT THICKNESS TO MEET LOCAL ENERGY CODE REQUIREMENTS. PROVIDE INSULATION ON EXHAUST AND OUTSIDE AIR DUCTS, AND ON CONCEALED PORTIONS OF SUPPLY AND RETURN AIR DUCTS. DO NOT INSULATE EXPOSED DUCTWORK AND PORTIONS OF DUCTWORK THAT ARE INTERNALLY LINED. THERMAL INSULATION TO COMPLY WITH AN NFPA FLAME SPREAD OF 25 OR LESS, AND SMOKE DEVELOPED NO GREATER THAN 50.

UNLESS OTHERWISE INDICATED ON THE PLANS, PROVIDE 1" GLASS FIBER ACOUSTICAL DUCT LINER ON SUPPLY AND RETURN DUCTWORK WITHIN 10 FEET OF THE DISCHARGE AND INTAKE OF AIR HANDLING UNITS. INCREASE DUCT SIZED INDICATED ON PLANS 2" IN EACH DIMENSION TO ACCOMMODATE LINER. LINER SHALL BE FASTENED TO DUCT WITH MECHANICAL LINER FASTENERS IN ACCORDANCE WITH SMAGNA.

THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL CONTROL WIRING IN CONDUIT NECESSARY FOR THE COMPLETE AND PROPER OPERATING TEMPERATURE CONTROL SYSTEM.

CONTROLS & OPERATION:

THERMOSTAT THERMOSTAT(S) SHALL BE HONEYWELL PROGRAMMABLE SERIES T-7350 WITH NON-SWITCHING SUBBASE AND REMOTE SENSOR(S) FURNISHED BY STARBUCKS (UON) FOR INSTALLATION BY THE MECHANICAL CONTRACTOR. ONE THERMOSTAT AND SENSOR IS PROVIDED FOR EACH AIR HANDLING UNIT. MOUNT THERMOSTAT(S) AT 48" ABOVE FINISH FLOOR IN LOCATION AS INDICATED ON DRAWINGS. MÉCHANICAL CONTRACTOR TO PROVIDE THERMOSTAT IDENTIFICATION LABELS WITH 1/8" HIGH WHITE LETTERS ON KELLY GREEN OR BLACK PHENOLIC

BACKGROUND, I.E. "AC-1: WORKROOM" AND "AC-2: CUSTOMER AREA". REFER TO THERMOSTAT SETUP INSTRUCTIONS BELOW FOR ADDITIONAL REQUIREMENTS. THERMOSTAT SETUP INSTRUCTIONS

PROVIDE THE FOLLOWING SETUP AND PROGRAMMING ON THE HONEYWELL T-7350 THERMOSTAT: 1. FOLLOW INSTRUCTIONS IN THE T-7350 MANUAL WHICH COMES WITH THE THERMOSTAT. ADDITIONAL INFORMATION AVAILABLE FROM HONEYWELL COMMERCIAL FIELD TECHNICAL SUPPORT AT 612-951-1019 OR 763-954-6464 2. SET DIP SWITCHES AND JUMPERS AS FOLLOWS:

DEGREES F DISPLAY

12 HOUR CLOCK CONTINUOUS FAN OPERATION IN OCCUPIED MODE DISABLE KEYBOARD PROGRAMMING CUT JUMPER IF UNIT IS A HEAT PUMP

-2deg

ŠET CLOCK AND DAY. 4. SET TO DISPLAY CURRENT TEMPERATURE

5. SET OCCUPIED START TIME AT ½ HOUR BEFORE OPENING. SET UNOCCUPIED START TIME AT ½ HOUR AFTER CLOSING. VERIFY HOURS WITH STORE MANAGER OR CONSTRUCTION MANAGER. 6. SETPOINTS SHALL BE AS FOLLOWS: OCCUPIED UNOCCUPIED HEATING 70deg F

60deg F

COOLING 7. SET 3 HOUR OCCUPIEĎ OVERRIDE FUNCTÍON TO PROVIDE THE FOLLOWING SETPOINT OVERRIDES: HEATING +2deg [COOLING

HVAC SYMBOLS LEGEND GENERAL MECHANICAL NOTES:

TYPICAL SUPPLY DUCT UP/DN 🔽 DUCT HEATER TYPICAL RETURN DUCT UP/DN MANUAL VOLUME DAMPER TURNING VANES H일 BACK DRAFT DAMPER EF-1 EQUIPMENT DESIGNATION SMOKE DETECTOR

COMBINATION SMOKE **THERMOSTAT** AND FIRE DAMPER THE SPIN-IN TAKE-OFF & VOLUME DAMPER SUPPLY AIR ARROW

(U)→ UNDERCUT DOOR RETURN AIR ARROW CONNECT TO EXISTING INDICATES UNLINED 12" x 8" O.D. SHEETMETAL (1ST FIGURE = SIDE SHOWN, 2ND FIGURE = SIDE NOT SHOWN) 12 X 8

INDICATED 14" x 10" O.D. SHEETMETAL W/ " SOUNDLINER (U.O.N.), 12" x 8" I.D. NET

FLEXIBLE CONNECTION

FLEXIBLE DUCT, 5'-0" LONG MAX.

12" ø 🛨 ---- NECK SIZE — DESIGN CFM (WHERE APPLICABLE) · DIFFUSER TYPE, REF. SCHEDULE CEILING DIFFUSER (FLOW ARROWS SHOWN

12 X 8

CEILING RETURN/EXHAUST GRILLE

ONLY IF AIR FLOW NOT SYMMETRICAL)

THE INTENT OF THE SPECIFICATION AND THE DRAWINGS IS TO PROVIDE A COMPLETE AND FULLY OPERATIONAL MECHANICAL SYSTEM. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL AND EQUIPMENT RELATED TO THE INSTALLATION OF THE MECHANICAL WORK.

THE CONTRACTOR SHALL THOROUGHLY EXAMINE ALL AREAS

WHERE EQUIPMENT, DUCTWORK, AND PIPING WILL BE INSTALLED AND WILL REPORT ANY CONDITION THAT, IN HIS OPINION, PREVENTS THE PROPER INSTALLATION OF THE MECHANICAL WORK.

EQUIPMENT AND MATERIALS SHALL CONFORM WITH APPROPRIATE PROVISIONS OF ARL, ASME, ASTM, UL, NEMA, ANSI, SMACNA, ASHRAE, NFPA, AS APPLICABLE TO EACH INDIVIDUAL UNIT OR ASSEMBLY.

ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES. IN CASE OF CONFLICT BETWEEN THE DRAWINGS/SPECIFICATIONS AND THE CODES AND ORDINANCES, THE HIGHEST STANDARD SHALL APPLY. THE MECHANICAL CONTRACTOR SHALL SATISFY CODE REQUIREMENTS AS A MINIMUM STANDARD WITHOUT ANY EXTRA COST TO STARBUCKS.

THE CONTRACTOR SHALL PROCURE AND PAY FOR ALL PERMITS. FEES AND INSPECTIONS NECESSARY TO COMPLETE THE MECHANICAL WORK.

THE CONTRACTOR SHALL UNCONDITIONALLY WARRANT ALL WORK TO BE FREE OF DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY STARBUCKS AND WILL REPAIR OR REPLACE ANY DEFECTIVE WORK PROMPTLY AND WITHOUT CHARGE AND RESTORE ANY OTHER EXISTING WORK DAMAGED IN THE COURSE OF REPAIRING DEFECTIVE MATERIALS AND WORKMANSHIP.

TESTING, ADJUSTING, BALANCING:

MECHANICAL CONTRACTOR OR AN INDEPENDENT AIR BALANCE CONTRACTOR SHALL ACCURATELY BALANCE THE AIR & HYDRONIC (WHERE APPLICABLE) SYSTEMS TO PROVIDE AIR & WATER QUANTITIES (WHERE APLICABLE) INDICATED ON THE DRAWINGS AND IN THIS SPECIFICATION. OPERATE AUTOMÁTIC CONTROLS SYSTEM AND VERIFY SET POINTS. A NEBB OR AABE CERTIFIED SUPERVISOR SHALL BE IN CHARGE OF WORK. SUBMIT TWO (2) COPIES OF THE BALANCE REPORT TO THE ENGINEER FOR APPROVAL. INCLUDE A COPY OF THE BALANCE REPORT AS APPROVED BY THE ENGINEER WITH APPLICATION FOR FINAL CONTRACT PAYMENT.



STARBUCKS COFFEE COMPANY

2401 UTAH AVENUE SOUTH SEATTLE, WASHINGTON 98134 (206) 318-1575

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CONSULTANTS —KHACHATURIAN— ENGINEERING ASSOCIATES, INC. 49 CLAREMONT AVE., MONTCLAIR, NJ 07042 TEL (973)783 1098 FAX (973)783 4301

ARMEN KHACHATURIAN, P.E. MAINE LICENSE PE 10384

REV DATE

103 AVENUE AND PORT

04 **PORTLAND** 1080 FORE

STORE #: 11917 PROJECT #: 37548-001

CONCEPT: MSS DT PALETTE: CLASSICO ISSUE DATE: 12-5-06 DRAWN BY: C. MILLER DESIGN BY: M. D'ANDREA CHECKED BY: A. KHACHATURIAN MARK SWIDERSKI

SHEET TITLE

MECHANICAL LEGEND & NOTES

SCALE: (DO NOT SCALE DRAWINGS)

BUILDING CODE NOTES:

NOTE: SEE DWG A3.0 FOR EXACT CLG & SOFFIT ARRANGEMENTS SEE DWG M1.0 FOR MECHANICAL NOTES.

HVAC UNIT SCHEDULE													
UNIT	MANUFACTURER	MODEL NO.	TONS	CFM	ESP	FAN HP	NET COOLING CAPACITY BTUH	HEATING INPUT CAPACITY BTUH	HEATING ELEMENT	ELEC.	MCA	MAX FUSE	NET WEIGHT
RTU-1	TRANE	YSC060A3RHA**D2	5	2000	1.0	1.0	60,000	130,000	NAT. GAS	208V/3ø/60HZ	30.3	45	663 lbs.
RTU-2	TRANE	YSC090A3RHA**D	7.5	3000	1.0	2.0	90,000	200,000	NAT. GAS	208V/3ø/60HZ	42.7	60	988 lbs.

HVAC SCHEDULE: HVAC SCHEDULE: ITEM# QTY DESCRIPTION MANUFACTURER MODEL # VOLTS AMPS SUPPLY WASTE REMARKS SKU # SHIP SQ. 4-WAY SUPPLY | TITUS TDC#3 -24X24 4-WAY - 12INH002 GC 12X12 - LAY-IN DUCT SQ. 2-WAY SUPPLY TITUS 24X24 2-WAY - 12" GC H005 | TDC #3 12X12 DUCT - LAY-IN RETURN FOR GC H253 TITUS 350RL #7 8X8 10X10 - 8X8 DUCT RESTROOM |SQ. RETURN -350ZRL #3 GC H254 TITUS 24X24 - 22" DUCT LAY-IN 22X22 EXHAUST FAN FOR GC H500 GREENHECK G - 70 - DRESTROOM THERMOSTAT WITH W/ T7770A1006 & H501 3PL HONEYWELL T7350 92855 SENSOR C7141B2005 SENSORS

(1PHASE) 45.7

(3PHASE) 6.4/-

26.4/2

208

WD90 - 8X8

GPI-17-G12

DP21036E

DP22072E

DRIVE - THRU+ 14) 14) W A L K - IN R E F SEATING 14x12 RG 500 CFM WALK-IN FZR. RG 500 CFM RG 500 CFM WORKROOM : 100 CFM — (H253) 28x8 14x12 8"ø RESTROOM 10"ø ___+ 16x16 18x18 SALES SEATING NEW 7.5 TON U RTU-2 ROOF VEST TOP UNIT. 24x8 RG 1000 CFM VEST. H701XH700XH500X8X1 10" Ø TO EXHAUST FAN ON ROOF. DISCHARGE A MINIMUM - PROVIDE AND MOUNT A DUCT SMOKE DETECTOR IN THE RETURN AIR SYSTEM UPSTREAM OF ANY AIR FILTERS, EXHAUST AIR CONNECTIONS, OR OUTDOOR OF 12' AWAY FROM ANY AIR AIR CONNECTIONS. SUPPLIED AND INSTALLED BY INTAKE LOUVER. THE MECHANICAL CONTRACTOR. WIRED BY ELECTRICAL CONTRACTOR. PROVIDE REMOTE AUDIO/VISUAL TEST STATION IN WORKROOM. (TYP)

ACCESSORIES

ADDITIONAL ITEMS

H700

H701

ADL1

ADL2

DAMPER FOR

EXHAUST FAN

EXHAUST FAN

LONG

LONG

ROOF CURB FOR

AIR CURTAIN - 6'

AIR CURTAIN — 3' BERNER

GREENHECK

GREENHECK

BERNER

INTERNATIONAL CORP.

NOTES:

WITH BACKFLOW

PREVENTOR

ADD'L MOTOR:

208V/4AMPS

ADD'L MOTOR:

208V/4AMPS

- 1) COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER CONNECTION TO ALL MECHANICAL
- 2 FULL SIZE SUPPLY AIR DISCHARGE PLENUM WITH 1" DUCT LINER.
- (3) FULL SIZE RETURN AIR PLENUM WITH 1" DUCT
- (4) WALL MOUNTED THERMOSTAT AT 44" AFF.
- (5) REMOTE TEMPERATURE SENSOR AT 60" AFF.
- 6 DIFFUSERS AND RETURNS CENTERED IN CEILING TILE, UON.
- (7) MANUAL BALANCE DAMPER.
- 8 EXHAUST DUCT UP TO ROOF MOUNTED EXHAUST FAN #EF-1. VERIFY EXACT ROUTING ON JOBSITE.
- 9 TYPE 'B' FLUE VENT TO WATER HEATER. LOCATE A CODE MINIMUM DISTANCE AWAY FROM OUTSIDE AIR INTAKES ON ROOF.
- (10) MULTIPLE THERMOSTATS SHALL BE STACKED IN A VERTICAL CONFIGURATION WITH A MINIMUM 8" CLEARANCE BELOW EACH THERMOSTAT.
- (11) COOLER EVAPORATOR-FAN/CONDENSING UNIT FURNISHED BY STARBUCK'S, INSTALLED BY CONTRACTOR. INSTALL UNIT PER DRAWINGS & MANUFACTURER'S RECOMMENDATION.
- FREEZER EVAPORATOR—FAN/CONDENSING UNIT FURNISHED BY STARBUCK'S, INSTALLED BY CONTRACTOR. INSTALL UNIT PER DRAWINGS & MANUFACTURER'S RECOMMENDATION.
- (13) CONDENSATE PIPING BY CONTRACTOR.
- CALL LYNN CLATTERBUCK AT ICSCO 1-800-835-0001 FOR FURTHER INFORMATION ON WALK IN COOLER/FREEZER



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CONSULTANTS KHACHATURIAN

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TEL (973)783 1098 FAX (973)783 4301

ARMEN KHACHATURIAN, P.E. MAINE LICENSE PE 10384

REV DATE

GC

GC

GC

GC

AVENUE 04103 RLAND AND ME 1080 FORES CUMBEI TARBUCK **PORT PORTLAND**

S

MARK SWIDERSKI

STORE #: 11917 PROJECT #: 37548-001

CONCEPT: MSS DT PALETTE: CLASSICO ISSUE DATE: 12-5-06 DRAWN BY: C. MILLER DESIGN BY: M. D'ANDREA CHECKED BY: A. KHACHATURIAN

SHEET TITLE HVAC PLAN / SCHEDULE

SCALE: (DO NOT SCALE DRAWINGS)

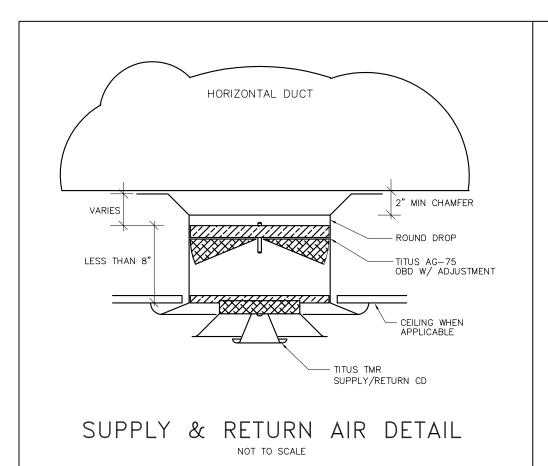
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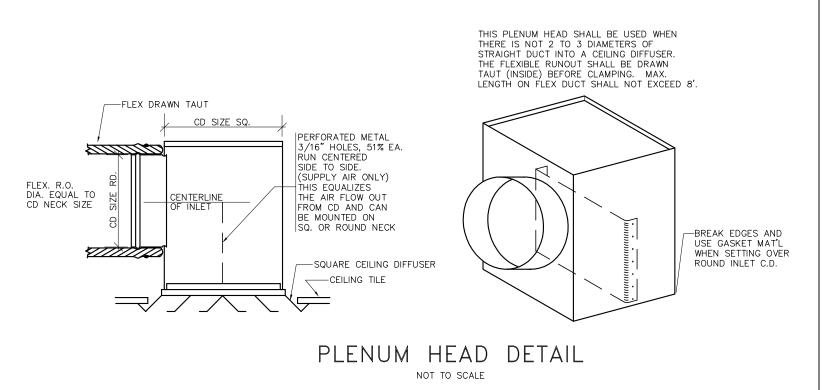
M2.0

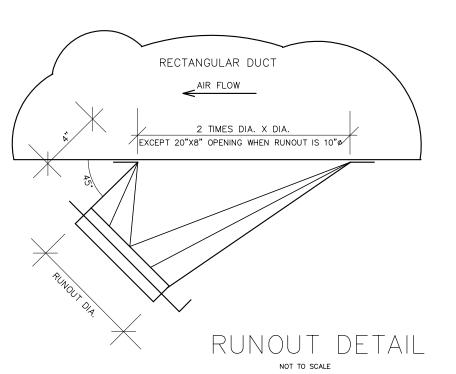
HVAC PLAN

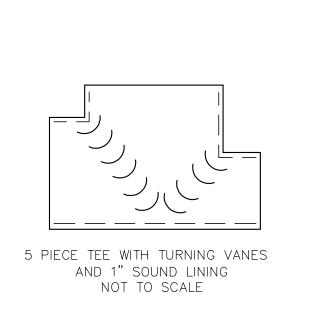
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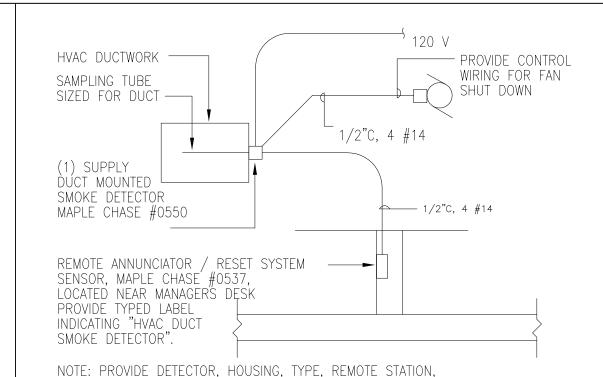
HVAC UNIT LAYOUT AS WELL AS THE DUCTWORK LAYOUT IS DIAGRAMMATIC. THE CONTRACTOR MAY REARRANGE THE UNITS AND RESIZE THE DUCTWORK TO EQUIVALENT SIZES TO ACCOMMODATE EXISTING CONDITIONS AND CONSTRAINTS.











AND ALL ACCESSORIES. DETECTOR SHALL BE INSTALLED UNDER

WHEN STARBUCKS SPACE IS MONITORED BY CENTRAL BUILDING

FIRE ALARM SYSTEM, GC TO COORDINATE WITH LANDLORD'S ALARM CONTRACTOR TO CONNECT BUILDING ALARM SYSTEM

MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL DUCT

DETECTOR WITH MINIMUM TWO SETS OF AUXILIARY CONTACTS

ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL CONTROL

TYP DUCT DETECTOR DETAIL

DIVISION 15. CONNECT DETECTOR AS SHOWN.

TO DUCT DETECTOR AUXILIARY CONTACTS.

WIRING FROM DUCT DETECTOR TO AC UNIT



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TEL (973)783 1098 FAX (973)783 4301

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PORTLAND

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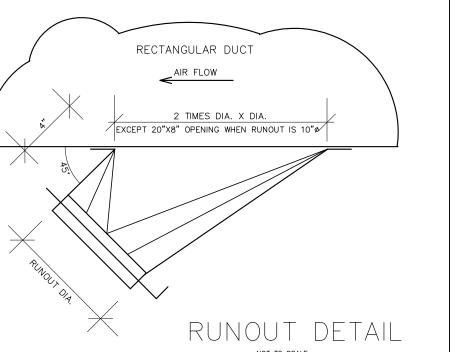
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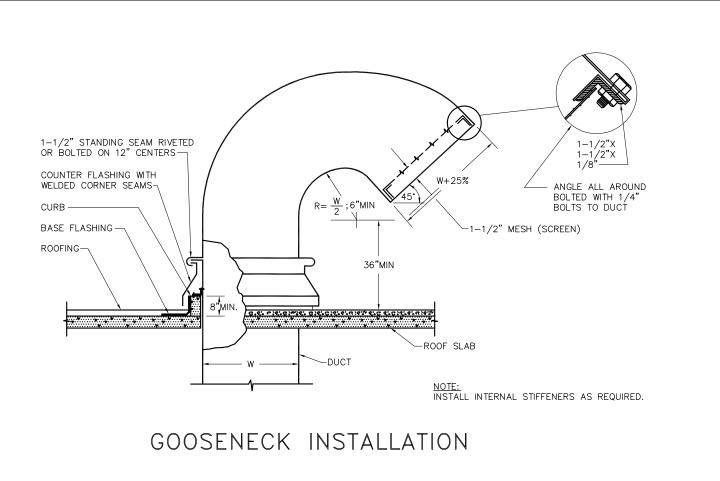
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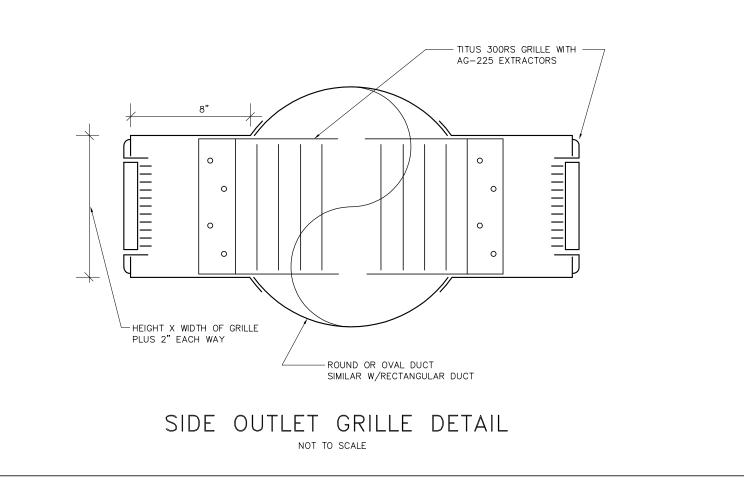
STARBUCK

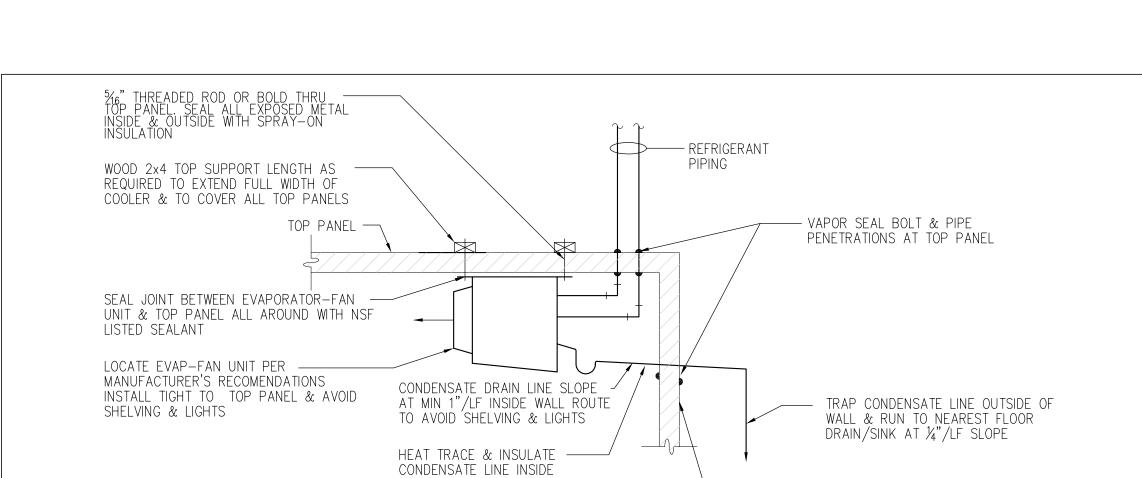
ARMEN KHACHATURIAN, P.E. MAINE LICENSE PE 10384

REV DATE

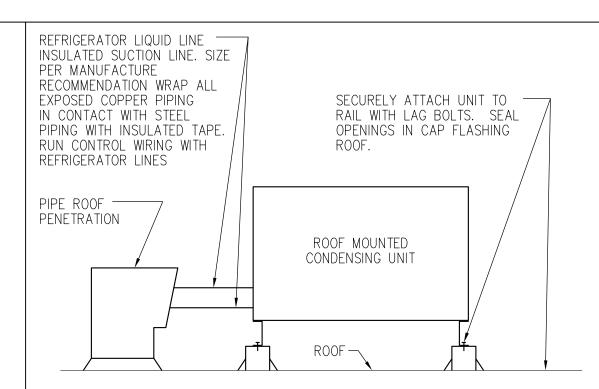




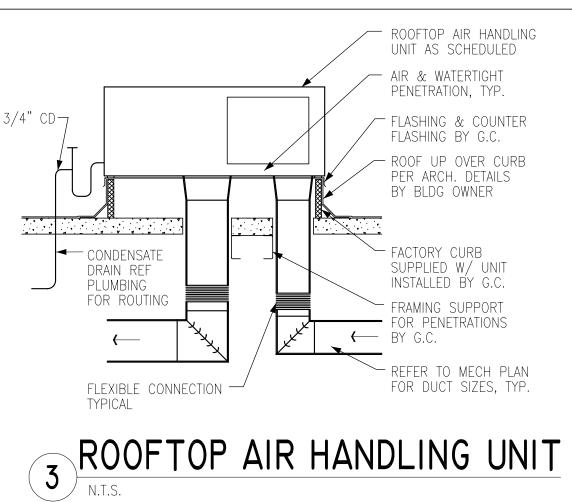


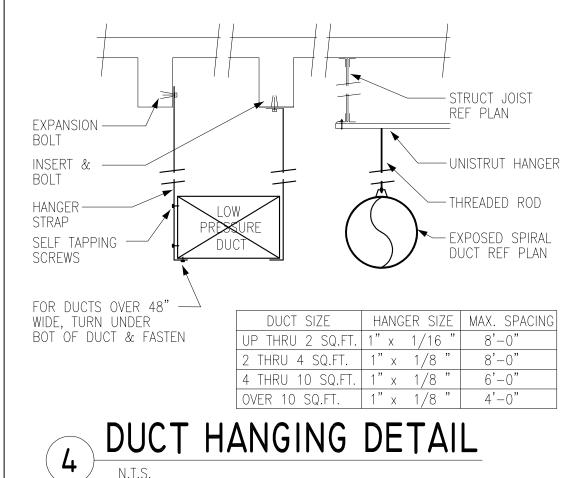


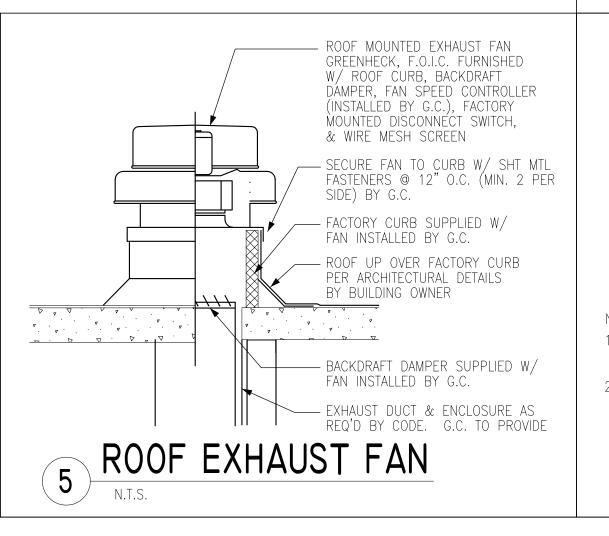
FREEZER WALL. EVAPORATOR-FAN UNIT ELEVATION

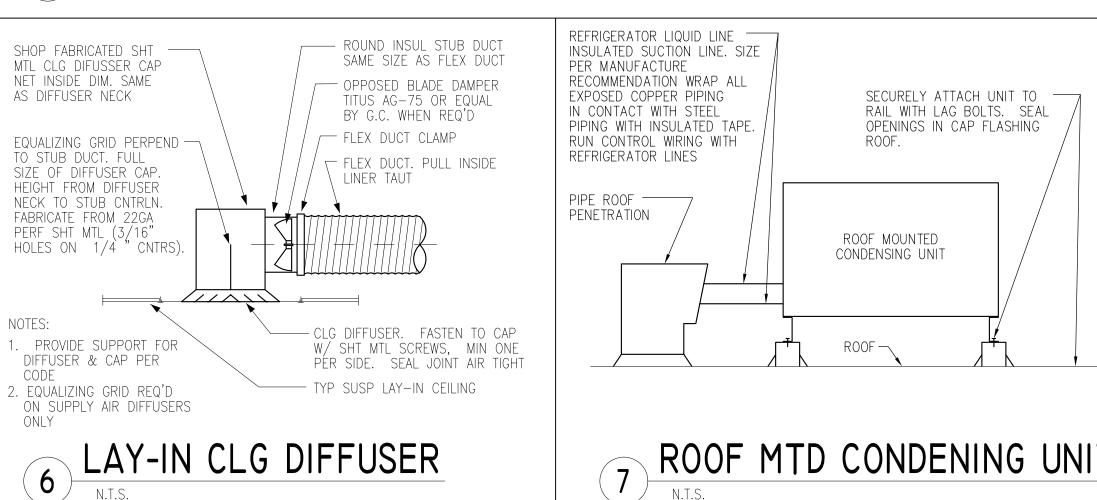


- SIDE PANEL









7 ROOF MTD CONDENING UNIT

SCALE: (DO NOT SCALE DRAWINGS)

STORE #: 11917

ISSUE DATE: 12-5-06

DRAWN BY: C. MILLER

DESIGN BY: M. D'ANDREA

CONCEPT:

SHEET TITLE

PALETTE:

PROJECT #: 37548-001

MSS DT

CHECKED BY: A. KHACHATURIAN

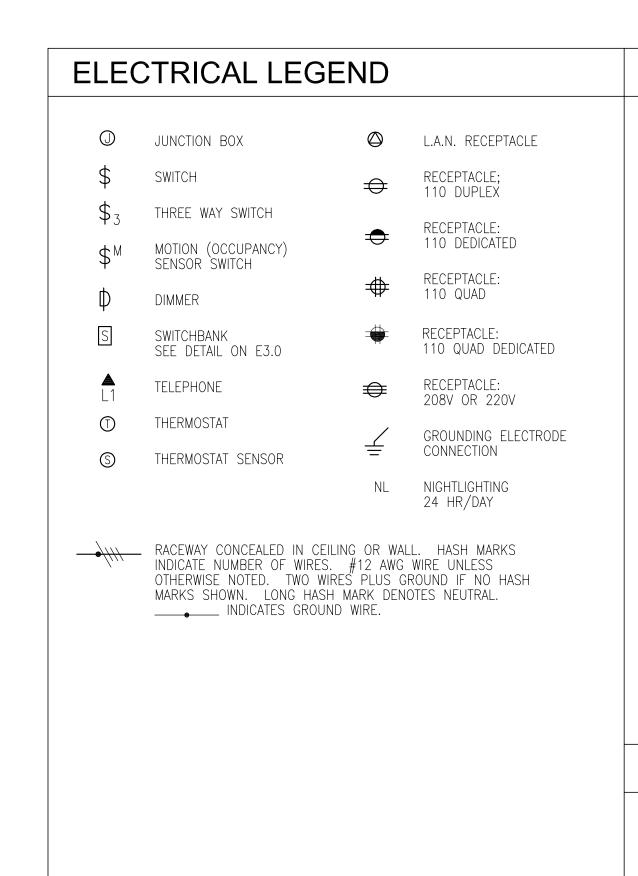
HVAC DETAILS

CLASSICO

MARK SWIDERSKI

SHEET NUMBER

M3.0



TELEPHONE SYSTEM NOTES:

- AT START OF CONSTRUCTION, GNOC (GLOBAL NETWORK OPERATIONS CENTER) WILL ORDER PHONE SERVICE. CM TO SUBMIT FORM VIA EMAIL TO THE GNOC GROUP AT GNOC@STARBUCKS.COM
- B STORES REQUIRE A MINIMUM OF FIVE PHONE LINES TERMINATED AT THE DEMARC BOARD IN THE BACK OF HOUSE NEAR THE MANAGER'S DESK AND THE TECHNOLOGY RACK. PHONE LINE ASSIGNMENTS CAN BE FOUND ON THE STORE DELIVERY SCHEDULE. THEY ARE TO BE TERMINATED AND LABELED IN THE FOLLOWING ORDER AND USE.
- LINE #1 VOICE LINE FOR MAIN LISTED PHONE NUMBER AND ALARM PANEL.
 ROUTE THE CABLE FROM DEMARC TO RJ31X JACK ADJACENT TO
 INTERACTIVE SECURITY ALARM PANEL. LABEL JACK AS "V1—VOICE LINE
 W/telephone number/ALARM PANEL". EXTEND CABLING FROM RJ31X TO THE
 MANAGER'S DESK AND EACH BARISTA PHONE LOCATION WITH AN RJ11 JACK.
 LINE #2 VOICE LINE FOR ROLLOVER PHONE NUMBER. ROUTE CABLE FROM
 DEMARC TO A RJ11 JACK LOCATED AT THE MANAGER'S DESK. LABEL JACK
 AS "V2—VOICE LINE W/telephone number".
- LINE #3 DEDICATED LINE FOR DIAL UP MODEM FOR THE MANAGER'S PC WORKSTATION. ROUTE CABLE FROM DEMARC TO A RJ11 JACK ADJACENT TO THE BOH TECHNOLOGY RACK. LABEL JACK AS "MODEM LINE W/telephone number". SEE DETAIL 1 ON SHEET E4.0.
- LINE #4 DEDICATED LINE FOR THE INTERACTIVE SECURITY SYSTEM. ROUTE CABLE FROM DEMARC TO A RJ11 JACK ADJACENT TO THE DIGITAL SECURITY RECORDER ON THE BOH TECHNOLOGY RACK. LABEL JACK AS "AUDIO LINE W/telephone number". SEE DETAIL 1 ON SHEET E4.0.

 LINE #5 DEDICTATED LINE FOR THE VIDEO MODULE IN THE SECURITY ALARM PANEL. ROUTE CABLE FROM DEMARC TO A RJ11 JACK ADJACENT TO THE

SECURITY ALARM PANEL. LABEL JACK AS "VIDEO LINE W/telephone number"

- © COORDINATE THE WORK OF THIS SECTION WITH THE REQUIREMENTS OF STARBUCKS COFFEE COMPANY'S SECURITY SYSTEM INSTALLER.
- USING PHONE NUMBER ASSIGNMENT FROM THE STORE DELIVERY SCHEDULE, THE GC WILL CROSS CONNECT THE VOICE TELEPHONE LINES FROM THE PHONE COMPANY (LEC) INTERFACE (66 BLOCK) TO THE 110 HARDWARE IN THE MPOE. THE DATA CABLING VENDORS WILL CROSS CONNECT THE DSL/FRAME RELAY CIRCUITS.

T-MOBILE / T1 NOTES:

SEE DETAIL 1 ON SHEET E4.0.

A THE CATS CABLE PINNED TO POSITION 13-16 AT THE 110 BLOCK SHALL BE EXTENDED AND TERMINATED WITHIN TWO (2) FEET OF THE TECHNOLOGY (OR IT) RACK, INTO A J-BOX ATTACHED TO THE WALL, CONTAINING AN RJ48C JACK. THE RJ48C JACK SHALL BE LABELED "TMOBILE/T1".

SECURITY SYSTEM NOTES:

- (A) STARBUCKS CONTRACTS DIRECTLY WITH SECURITY VENDOR TO SUPPLY & INSTALL THE SECURITY SYSTEM. CONTRACTOR TO SCHEDULE INSTALLATION OF SECURITY SYSTEM FOR TWO TIMES, ROUGH—IN PRIOR TO DRYWALL INSTALLATION AND FINAL TRIM PRIOR TO STORE TURNOVER, SECURITY VENDOR REQUIRES A MINIMUM TWO WEEKS LEAD TIME FOR EACH INSTALLATION. SECURITY VENDOR WILL COORDINATE REGIONAL INSTALLERS. ALL ADDITIONAL EXPENSES INCURRED DUE TO THE CONTRACTOR'S FAILURE TO SCHEDULE ACCORDINGLY WILL BE THE RESPONSIBILITY OF THE CONTRACTOR
 - THE DIEBOLD COMPANY CONTACT: ED BEATTIE PH: (206) 318-6688 FAX: (206) 515-1807 EMAIL: beattie@diebold.com

COMMUNICATION SYSTEMS NOTES:

- A STARBUCKS CONTRACTS DIRECTLY WITH THE LANDLORD TO PROVIDE FOUR (4) CAT5 (WHITE) COMMUNICATION CABLES TO THE SPACE.
- (B) FOUR (4) CAT5 CABLES ARE DEDICATED TO STORE OPERATIONS/COMMUNICATIONS.
- THE GC MUST INSTALL 110 HARDWARE (MINIMUM SIZE: 25pr) IN BOTH THE MPOE AND BOH. THE 110 HARDWARE IN THE BOH SHOULD BE PLACED ON THE BACKBOARD (PARTS RECOMMENDED: AVAYA 110DW 2-25 MFG PART #107256653). THE SERVICE LOOP (30 FOOT) CAN BE SHORTENED TO ACCOMODATE THE PLACEMENT OF THE 110 HARDWARE.

 ALL FOUR (4) OF THE LANDLORD PROVIDED CAT5 CABLES MUST BE PUNCHED DOWN TO THE 110 HARDWARE AT THE MPOE AND BOH, TONED, TESTED AND LABELED AS INDICATED IN THE TABLE BELOW:

 CABLE PAIRS/POSITION LABELED
 - 1 1~4 V1, V2, V3, V4 2 5~8 V5, V6, V7, V8 3 9~12 DSL/FRAME RELAY 4 13~16 T-MOBILE/T1
- THE GC SHOULD PERFORM THE PUNCH DOWN AT THE MPOE AND THE BOH PER THE FOLLOWING 568b IN-BUILDING CATS CABLING STANDARD:
 - PIN WIRE COLOR
 1 WHITE/ORANGE
 2 ORANGE
 3 WHITE/GREEN

SECURITY VENDOR

4 BLUE
5 WHITE/BLUE
6 GREEN
7 WHITE/BROWN

BROWN

DSL / FRAME RELAY NOTES:

A THE DSL/FRAME RELAY VENDOR WILL INSTALL THE IN-HOUSE WIRING AND RJ45 JACK FOR THE DSL/FRAME RELAY SERVICES. THE CAT5 CABLE PINNED TO POSITIONS 9~12 AT THE 110 BLOCK SHALL BE EXTENDED AND TERMINATED WITHIN TWO (2) FEET OF THE TECHNOLOGY (OR IT) RACK INTO A J-BOX ATTACHED TO THE WALL CONTAINING AN RJ45 JACK. THE RJ45 JACK SHALL BE LABELED "DSL/FRAME RELAY LINE".

POS / DATA LINE NOTES:

- A STARBUCKS CONTRACTS DIRECTLY WITH THE DATA CABLING VENDOR TO SUPPLY AND INSTALL CATEGORY 5 LAN CABLE AND CONNECTORS FOR THE POS SYSTEM. CONTRACTOR TO SCHEDULE INSTALLATION OF DATA CABLING W/ DATA CABLING VENDOR. DATA CABLING VENDOR REQUIRES A LEAD TIME FOR INSTALLATION. DATA CABLING VENDOR WILL COORDINATE REGIONAL INSTALLERS. ALL ADDITIONAL EXPENSES INCURRED DUE TO THE CONTRACTOR'S FAILURE TO SCHEDULE ACCORDINGLY WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- B AT THE START OF CONSTRUCTION, STARBUCKS CM SCHEDULES DELIVERY OF CASH REGISTER/MANAGER'S WORKSTATION EQUIPMENT AND INSTALLATION BY A DATA CABLING TECHNICIAN FOR TWO DAYS PRIOR TO CONSTRUCTION END. CONTRACTOR TO VERIFY DELIVERY SCHEDULE TWO WEEKS PRIOR TO DELIVERY AND INSTALLATION DATE. EQUIPMENT IS SHIPPED DIRECTLY TO THE STORE, CONTRACTOR TO ACCEPT POS EQUIPMENT DELIVERY. DO NOT REFUSE DELIVERY.
- © DATA CABLING TECHNICIAN TO PROVIDE ALL CATEGORY 5 LAN CABLING AND CONNECTIONS TO ALL DESIGNED AND FUTURE CASH REGISTER LOCATIONS, AND MANAGER'S WORKSTATION.
- D DATA CABLING TECHNICIAN TO REMOVE PACKAGING, INSTALL AND TEST CASH REGISTERS, CASH DRAWERS AND MANAGER'S WORKSTATION
- E CONTRACTOR RESPONSIBLE FOR COORDINATION OF PHONE/DSL LINE INSTALLATION PRIOR TO DATA CABLING VENDOR'S WORK.

 POS DELIVERY AND INSTALLATION FOR CURRENT DATA CABLING CONFIRMATION CONTACT: VENDOR CONTACT:
 - STARBUCKS MIS STORE SPECIALIST
 ATT. JANET CADDEY
 PHONE (206) 318–4555
 FAX (206) 682–1041

 STARBUCKS GLOBAL NETWORK
 OPERATIONS CENTER
 (206) 318–5100 OR
 (877) 796–5282 ex 85100

MUSIC SYSTEM NOTES:

(A) PROVIDE AND INSTALL A COMPLETE WIRING SYSTEM FOR ALL SPEAKERS.

CONNECT ALL SPEAKERS TO THE OWNER PROVIDED MUSIC SYSTEM. MOUNT
OWNER FURNISHED SPEAKERS WHERE SHOWN AND IN COORDINATION WITH
ARCHITECTURAL PLANS AND DETAILS. FOLLOW MANUFACTURER'S INSTALLATION
REQUIREMENTS.

ELECTRICAL NOTES:

- A THE INTENT OF THE SPECIFICATION AND THE DRAWINGS IS TO PROVIDE A COMPLETE AND FULLY OPERATIONAL ELECTRICAL SYSTEM. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY TO COMPLETE THE ELECTRICAL WORK. (SEE DIVISION 16 OF THE SPECIFICATIONS)
- B THE ELECTRICAL CONTRACTOR SHALL THOROUGHLY EXAMINE ALL AREAS WHERE EQUIPMENT, CONDUIT, AND WIRING WILL BE INSTALLED AND WILL REPORT ANY CONDITION THAT, IN HIS OPINION, PREVENTS THE PROPER INSTALLATION OF THE ELECTRICAL WORK.
- © EQUIPMENT AND MATERIALS SHALL CONFORM WITH APPROPRIATE PROVISIONS OF NEC, ASTM, UL, ETL, NEMA, ANSI, AS APPLICABLE TO EACH INDIVIDUAL UNIT OR ASSEMBLY.
- D ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES. IN CASE OF CONFLICT BETWEEN THE DRAWINGS/SPECIFICATIONS AND THE CODES ELECTRICAL CONTRACTOR SHALL SATISFY CODE REQUIREMENTS AS A MINIMUM STANDARD WITHOUT ANY EXTRA COST TO STARBUCKS.
- E THE ELECTRICAL CONTRACTOR SHALL COORDINATE ELECTRICAL WORK WITH OTHER TRADES. THE ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER ALL OTHER DRAWINGS. DO NOT SCALE DISTANCES OFF THE ELECTRICAL DRAWINGS; USE ACTUAL BUILDING DIMENSIONS.
- (F) ALL ELECTRICAL SYSTEMS SHALL BE TESTED FOR PROPER OPERATION.
 BALANCE ALL BRANCH CIRCUIT LOADS BETWEEN THE PHASES OF THE SYSTEM
 TO WITHIN 10% OF THE HIGHEST PHASE LOAD IN EACH PANELBOARD.
- G THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR DEENERGIZING CIRCUITS IN DEMOLITION AREAS TO INSURE A SAFE CONDITION. ELECTRICAL DEVICES AND ASSOCIATED WIRING LOCATED WITHIN THE DEMOLITION AREA THAT WILL NO LONGER BE USED SHALL BE REMOVED AND PROPERLY DISPOSED OF AT CONTRACTORS EXPENSE UNLESS OTHERWISE NOTED.
- (H) THE ELECTRICAL CONTRACTOR SHALL SCHEDULE ALL ELECTRICAL SYSTEM(S) OUTAGES WITH THE GENERAL CONTRACTOR AND LANDLORD AT LEAST 24 HOURS IN ADVANCE. UNLESS APPROVED OTHERWISE ALL OUTAGES SHALL OCCUR BETWEEN 11:00PM AND 5:00AM.



STARBUCKS COFFEE COMPANY

2401 UTAH AVENUE SOUTH SEATTLE, WASHINGTON 98134 (206) 318-1575

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CONSULTANTS

KHACHATURIAN

ENGINEERING ASSOCIATES, INC.
49 CLAREMONT AVE., MONTCLAIR, NJ 07042
TEL (973)783 1098 FAX (973)783 4301

ARMEN KHACHATURIAN, P.E. MAINE LICENSE PE 10384

REV DATE

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PORTLAND 1080 FOREST AVENUE PORTLAND, ME 04103 CUMBERLAND

STORE #: 11917 PROJECT #: 37548-001

CONCEPT: MSS DT
PALETTE: CLASSICO
ISSUE DATE: 12-5-06
DRAWN BY: C. MILLER
DESIGN BY: M. D'ANDREA
CHECKED BY: A. KHACHATURIAN
CM: MARK SWIDERSKI

SHEET TITLE

ELECTRICAL SPECIFICATIONS

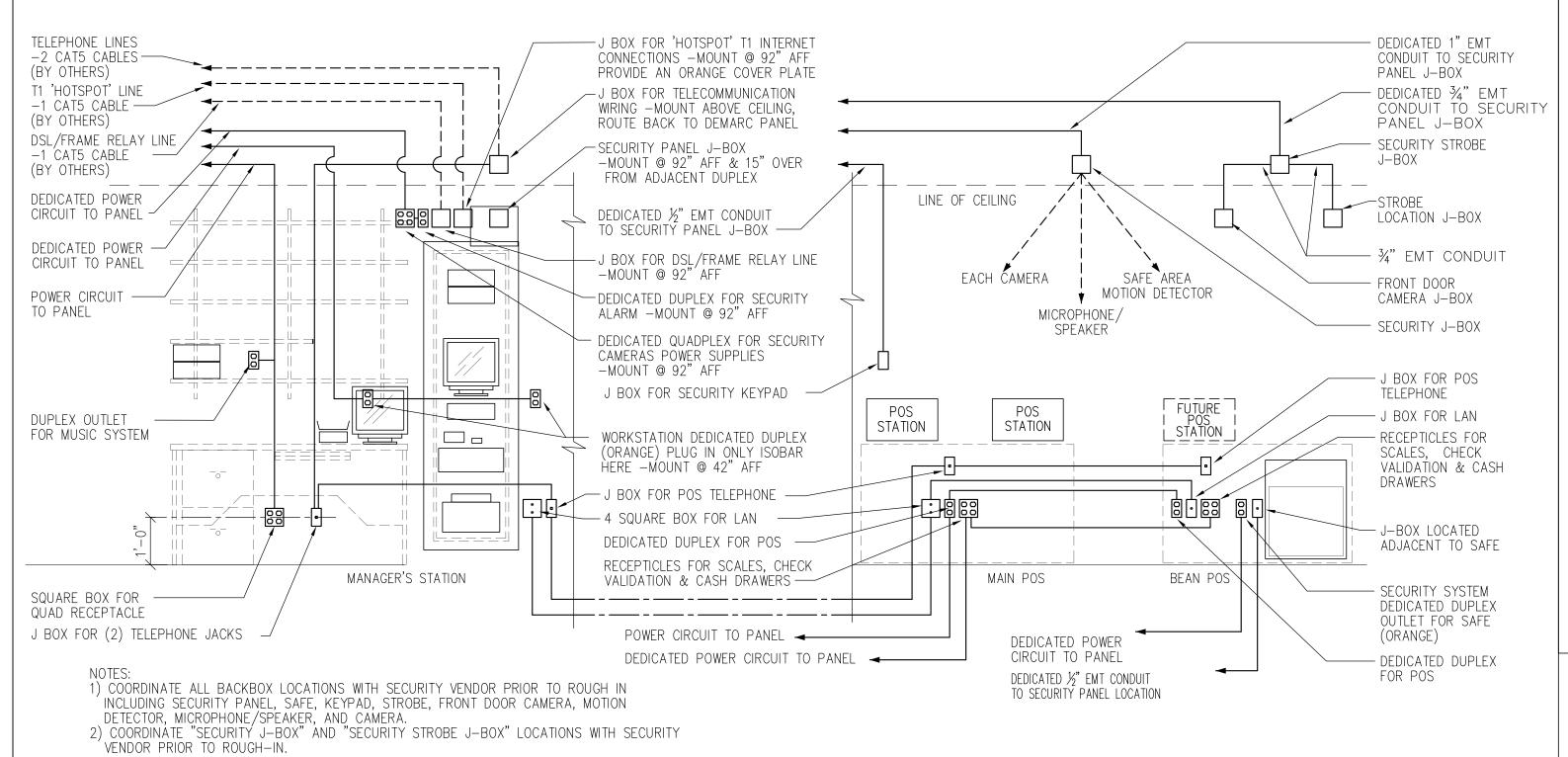
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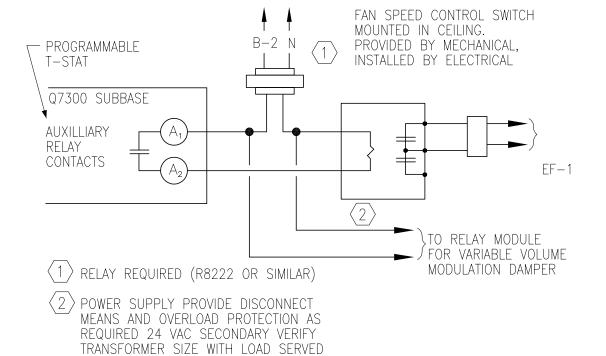
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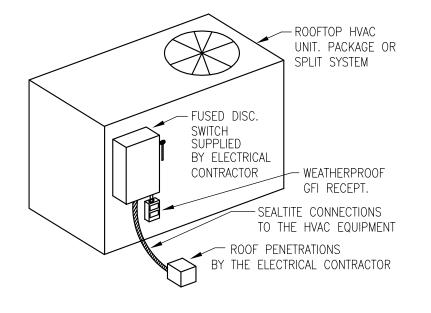
ENERGY CODE CALCULATIONS & BUILDING CODE NOTES:

LAN/POWER/PHONE/SECURITY SYSTEM DIAGRAM



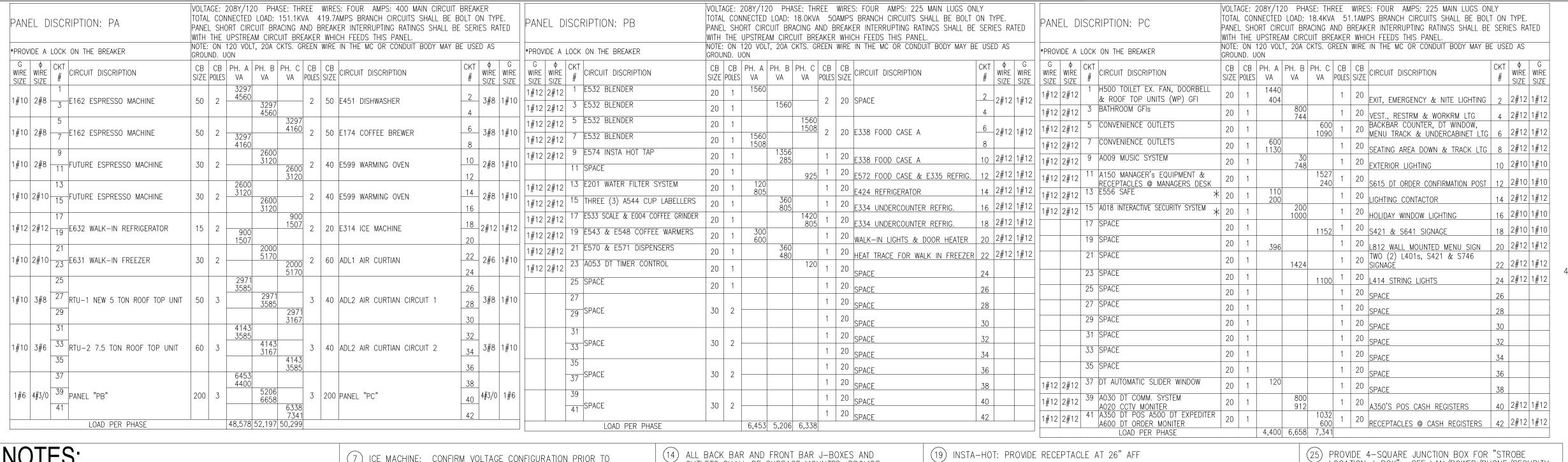


PROGRAMMABLE T-STAT



DETAIL OF ROOFTOP HVAC MOUNTED DEVICES

NOT TO SCALE



-SERVICE LATERAL -4#500MCM- 4"C. -CT CABINET — 4#500MCM+1#3G-3 1/2"C. PANEL "PA" WITH SERVICE DISCONNECT MAIN BREAKE 4#3/0+1#6G-2"C.— -4#3/0+1#6G-2°C PANEL "PB" ONE LINE DIAGRAM

Nor

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ARMEN KHACHATURIAN, P.E MAINE LICENSE PE 10384

REV DATE

-) NEMA 6-20R RECEPTACLE @26" AFF FOR FUTURE 208V/ 1ph EQUIPMENT. FULLY WIRE AND PROVIDE BUCK-BOOST TRANSFORMER ÁS MAY BE NEEDED (SEE NOTE 20) VERIFY 20
- (2) RETAIL GRINDER AND/OR SCALE, PROVIDE RECEPTACLE @ 26"AFF
- (3) TWIN BREWER: NEMA 14-50R RECEPTACLE @ 26" AFF, 34"C-3#6 AND 1#10 GROUND, CONTRACTOR TO PROVIDE A NEMA 14-50P CORD CAP FOR THE BREWER, BRYANT OR EQUAL
- (4) FOR ESPRESSO MACHINE. FURNISH AND INSTALL NEMA 6-50R RECEPTACLE HUBBELL HBL9367 SERIES OR EQUAL AT 30" AFF. ROUTE $\frac{3}{4}$ " CONDUIT- (2) #6 AND (1) #10 GROUND FROM MACHINE BACK TO PANEL. FURNISH AND INSTALL NEMA 6-50P ANGLED PLUG, HUBBELL HBL9368 SERIES OR EQUAL.

ELECTRICAL POWER PLAN

- (5) UNDER COUNTER REFRIGERATOR: PROVIDE RECEPTACLE @ 26" AFF.
- (6) NOT USED.

- 7) ICE MACHINE: CONFIRM VOLTAGE CONFIGURATION PRIOR TO ROUGH-IN WITH EQUIPMENT SCHEDULE. FURNISH AND INSTALL ALL NECESSARY CONDUIT, WIRE, CONNECTIONS, AND BREAKERS TO SUPPORT ICE MACHINE
- (8) FOODCASE: HARD WIRE EQUIPMENT CONNECTION. PROVIDE SEPARATE (1) 120V 15A AND (1) 220V 20A DEDICATED CIRCUITS.
- (9) DISHWASHER (HIGH TEMP): NEMA 14-50R RECEPTACLE @ 18"AFF, $\frac{3}{4}$ "c- 3#6 AND 1#10 GRÓUND.
- (10) RECEPTACLE @ 18"AFF AND 6 FT. ON CENTER IN SEATING AREAS. PROVIDE FLOOR RECEPTACLES WHERE NEEDED.
- (11) WATER FILTER SYSTEM: RECEPTACLE @ 60" AFF, IF APPLICABLE
- (12) COFFEE WARMERS: PROVIDE RECEPTACLE @ 26" AFF
- (13) BLENDERS: RECEPTACLES @ 26" AFF IN 4-PLEX BOX. MOUNT BOX TO DIE-WALL BENEATH BLENDER CABINET. EACH DUPLEX RECEPTACLE TO BESEPARATED AND RECEIVE (2) DEDICATED CIRCUITS, (4) DEDICATED CIRCUITS TOTAL

TURNED ON DURING THE OCCUPANCY CYCLE.

PROVIDE LOCAL RAINTIGHT DISCONNECT. ENSURE

THAT EXHAUST FAN REMAINS OPERATIONAL THRU-

OUT THE OCCUPIED TIMES OF THE STORE, EVEN

THOUGH THE SPACE TEMPERATURE IS SATISFIED.

- (14) ALL BACK BAR AND FRONT BAR J-BOXES AND OUTLETS SHALL BE SURFACE MOUNTED. PROVIDE CONDUITS AS NEEDED AND (1) ADDITIONAL SPARE CONDUIT BETWEEN ALL J-BOXES FOR FUTURE ELECTRICAL REQUIREMENTS. ALL J-BOXES SHALL BE POSITIONED TO AVOID OBSTRUCTION OF ANY EQUIPMENT
- SUCH AS REFRIGERATORS AND DISHWASHERS. 15) RECEPTACLE FOR SEASONAL LIGHTING (SHOW WINDOW RECEPTACLES) IN WALL @ MAXIMUM HEIGHT AFF AND CENTERED ABOVE WINDOW AND PER CODE.
- 16) PROVIDE 4-SQUARE JUNCTION BOX FOR "SECURITY J-BOX". SEE LAN/POWER/PHONE SECURITY SYSTEM DETAIL.
- 17) FOR SIGNAGE, FURNISH AND INSTALL ELECTRICAL CIRCUIT. ROUTE CIRCUIT CONCEALED FROM PANELBOARD TO SIGNAGE WHEN WALL OR CEILING IS AVAILABLE.
- (18) SAFE: FURNISH AND INSTALL DUPLEX RECEPTACLE AND SECURITY J-BOX AT 18" AFF.

N1 60A/40A/3P PA-26,28,30

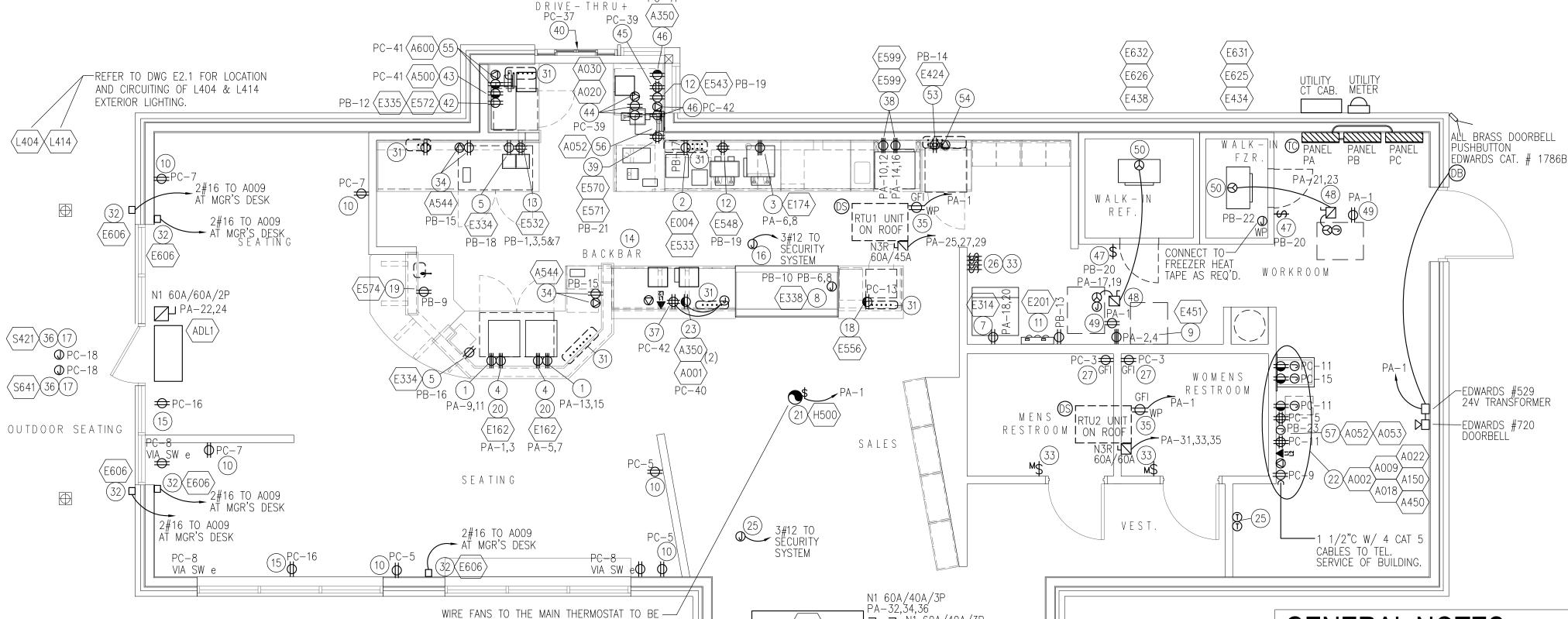
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- (20) ESPRESSO MACHINES: CIRCUIT VOLTAGE SHALL BE BETWEEN 195 VOLTS AND 225 VOLTS. IF NEEDED, THE CONTRACTOR SHALL PROVIDE AND INSTALL A BUCK-BOOST TRANSFORMER TO BE LOCATED IN AN ACCESSIBLE LOCATION ABOVE THE CEILING WITHIN 6' OF THE ELECTRICAL PANEL. IF LOCAL CODES DO NOT ALLOW INSTALLATION ABOVE THE CEILINGS, THE TRANSFORMER SHALL BE MOUNTED TO THE WALL JUST BELOW THE CEILING. ACCEPTABLE TRANSFORMERS INCLUDE ACME. FURNISH AND INSTALL ANY ADDITIONAL O.C.P
- (21) EXHAUST FAN: SHALL BE CONNECTED TO HVAC UNIT THERMOSTAT TO RUN CONTINUOUSLY DURING OCCUPIED MODE. COORDINATE WITH MECHANICAL AND DETAIL SHEETS
- (22) MANAGER'S DESK: PROVIDE LAN / POS / ELECTRICAL DEVICES. SEE DETAILS FOR LOCATIONS AND EQUIPMENT. ALL REQUIRED OUTLETS ARE NOT NECESSARILY SHOWN
- (23) POS: FURNISH AND INSTALL DOUBLE DUPLEX ISOLATED—GROUNDING TYPE RECEPTACLE AT 18" AFF., INCLUDING GREEN GROUNDING WIRE AND ISOLATED GROUNDING WIRE BACK TO SERVING POWER PANEL PER CODE. FURNISH AND INSTALL (1) J-BOX FOR DATA OUTLET AND (1) J-BOX FOR PHONE OUTLET AT 18" AFF.
- (24) NOT USED.

	ELECIRICA	l load cal	_CULA HOI	V
	LOAD TYPE	CONNETED	V M AJLTIPLIER PER NEC	ADJUSTED V—A LOAD
	LIGHTING	9,628	1.25	12,035
	RECEPTACLES AND MISC. UP TO 10,000 VA	10,000	1.00	10,000
	RECEPTACLES AND MISC. OVER 10,000 VA	571	0.50	286
	HEATING EQUIPMENT	31,014	1.00	31,014
	KITCHEN EQUIPMENT	77,474	0.65	50,358
	HVAC	4,070	1.00	4,070
	TOTAL LOAD	132,757		107,763

MAXIMUM ANTICIPATED DRAW ON PANEL "PA" IS 299 AMPS AT 208V,30 * - THE COOLING LOAD HAS BEEN OMITTED FROM THE LOAD CALCULATION DUE TO THE FACT THAT IT WILL NOT BE OPERATIONAL WHEN STORE IS IN HEATING MODE. THE HEATING LOAD IS GREATER AND HAS BEEN USED TO CALCULATE THE MAXIMUM DEMAND LOAD.

- (47) FURNISH AND INSTALL 120V CIRCUIT AND ALL NECESSARY CONDUIT, WIRE, AND CONNECTIONS TO POWER VENDOR-FURNISHED DOOR HEATER LIGHT FIXTURES AND LIGHTING CONTROL DEVICES.
- (48) FURNISH AND INSTALL WIRING FROM CONDENSING UNIT TO VENDOR-FURNISHED DISCONNECT. MOUNT DISCONNECT ONTO CONDENSING UNIT . FURNISH AND INSTALL WEATHERPROOF J-BOX ONTO CONDENSING UNIT. PROVIDE 1/2" CONDUIT FROM J-BOX DOWN TO EVAPORATOR UNIT. FURNISH AND INSTALL WIRING FROM VENDOR-FURNISHED CONTACTS ON CONDENSING UNIT THROUGH J-BOX AND CONDUIT DOWN TO EVAPORATOR UNIT.
- (49) FURNISH AND INSTALL WEATHERPROOF, GFI, DUPLEX NEMA 5-20R RECEPTACLE ON ROOF ADJACENT TO CONDENSING UNIT. MOUNT RECEPTACLE ON FREE-STANDING C-CHANNEL FRAME 18" ABOVE FINISH ROOF LEVEL
- (50) PROVIDE ELECTRICAL CONNECTION TO EVAPORATOR UNIT FROM CONDENSING UNIT CONTACTS SEE NOTE 48.
- (51) NOT USED.
- (52) NOT USED
- (53) FURNISH AND INSTALL A DOUBLE-DUPLEX NEMA 5-20R RECEPTACLE MOUNTED AT 26" AFF, INCLUDING ALL NECESSARY, CONDUIT, WIRE, AND CONNECTIONS BACK T SERVING PANEL TO SUPPORT REFRIGERATOR / FREEZER.
- CUP LABELER / ORDER MONITOR FURNISH AND INSTALL BACKBOX FOR DATA OUTLET AT 26" AFF ROUTE (1) $\frac{3}{4}$ " CONDUIT FROM BACKBOX TO DATA RACK NÉÁR MANAGER'S WORK STATION. LABEL CONDUIT FOR DATA CABLING AND PROVIDE PULL STRING FROM END TO END.
- 55) FURNISH AND INSTALL RECEPTACLE AT 6-6" ADJACENT O MONITOR MOUNTING BRACKET. FOR DATA OUTLET FURNISH AND INSTALL BACKBOX ADJACENT TO POWER RECEPTACLE AND ROUTE CONDUIT BACK TO DATA RACK
- (56) DRIVE THRU (DT) TIMER DISPLAY UNIT: PROVIDE -GANG J-BÒX´ADJACENT TO UNIT AND ¾" CONDUIT TO J-BOX AT DT TIMER CONTROL UNIT AT MANAGER'S DESK. SEE DRIVE THRU TIMER DIAGRAM.
- (57) DT TIMER CONTROL UNIT: PROVIDE DUPLEX RECEPTACLE AND 2-GANG J-BOX FOR CABLING ALIGNED AT SAME HEIGHT. FROM CABLING J-BOX ROUTE (1)34" CONDUIT TO EACH TIMER DISPLAY UNIT. SÉE DRIVE THRU TIMER DIAGRAM.



GENERAL NOTES:

(A) FURNISH AND INSTALL A COMPLETE AND OPERATING

SCOPE OF WORK

- SYSTEM. ALL ITEMS ARE NOT NECESSARILY SHOWN. (B) ELECTRICAL CONTRACTOR RESPONSIBLE FOR SITE INVESTIGATION PRIOR TO START OF WORK TO REVEAL FULL
- (C) DIMENSIONS ARE TO FINISH FACE UNLESS OTHERWISE NOTED
- (D) REFER TO DETAIL SHEETS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ELECTRICAL DEVICES.

LOCATION J-BOX". SEE LAN/POWER/PHONE/SECURITY

(26) ALARM KEYPAD AND EMERGENCY CALL PHONE: MOUNT

@ 54" AFF. ROUTE CONDUIT IN WALL FROM J-BOX

(27) RESTROOM RECEPTACLE: GFI RECEPTACLE @ 44" AFF

(30) DUPLEX CONVENIENCE RECEPTACLE MOUNTED @ 48" AFF

IN FLEXIBLE METAL CONDUIT TIGHT TO WALL FROM

TO SERVING POWER PANEL. ROUTE DATA AND

AFF. IN THIS LOCATION. ROUTE POWER CONDUCTORS

RECEPTACLES TO NEARBY RIGID STUB-UP AND BACK

PHONE CONDUITS UNDERFLOOR BACK TO DATA RACK

NEAR MANAGERS WORKSTATION. LABEL DATA AND

PHONE CONDUITS "FOR DATA CABLING". PROVIDE

INSULATED BUSHINGS, AND PROVIDE PULL STRING

(32) MUSIC SPEAKER: MOUNTED AT MAXIMUM HEIGHT AFF

(34) CUP LABELER: PROVIDE ISOLATED GROUND RECEPTACLE

(35) PROVIDE RECEPTACLE NEAR HVAC EQUIPMENT PER CODE

(36) CIRCUIT SERVING THIS DEVICE SHALL BE CONTROLLED BY

(38) FURNISH AND INSTALL NEMA 6-30R RECEPTACLES @

(40) D/T AUTOMATIC SLIDER WINDOW: PROVIDE (1) CONDUIT

MANUFACTURER'S SPECIFICATIONS FOR FURTHER

(42) PASTRY CASE / REFRIGERATOR: PROVIDE RECEPTACLE

(44) D/T COMM. BASE UNIT / CCTV MONITOR: PROVIDE (2)

DÚPLEX RECEPTACLES WITH 120V, 20A DEDICATED

GROUND CIRCUIT AND ADJACENT LAN CONNECTION. SEE

A7 DETAILS FOR ABOVE COUNTER MOUNTING HEIGHTS.

DEDICATED CIRCUIT FOR CCTV AND WIRELESS BASE UNIT

20A P.O.S. CIRCUIT AND ADJACENT LAN CONNECTION ALL

CONDUIT ROUTED BACK TO MANAGER'S WORK STATION.

(43) EXPEDITOR: RECEPTACLE ON DEDICATED P.O.S.

(45) MANUAL INTERCOM/ DETECTOR LOOP: PROVIDE A

4-PLEX RECEPTACLE @ 26" AFF. CONNECT TO

(46) D/T P.O.S.: PROVIDE RECPTACLE ON DEDICATED 120V,

@ 26" AFF. ALSO PROVIDE SPARE J-BOX WITH 34"

FOR P.O.S. DATA CABLE. CENTER BOXES IN CABINET.

AND J-BOX WITH 120V, 20A BRANCH CIRCÙIT. SEE

28" AFF, AND ALL NECESSARY, CONDUIT, WIRE AND

CONNECTIONS BACK TO SERVING PANEL TO SUPPORT

F OUTDOORS, RECEPTACLE TO BE WEATHER PROOF AND

TIME CLOCK. TIME CLOCK SHALL BE LOCATED ADJACENT

TO MANAGER WORKSTATION. FURNISH AND INSTALL ALL

CONDUIT, WIRE, CONNECTIONS, CONTACTORS AND TIME

CLOCK MODULES NECESSARY TO INSURE A FUNCTIONAL

GFCI. IF HVAC EQUIPMENT IS ABOVE CEILING, PROVIDE

AND BACKBOX FOR LAN CONNECTION @ 26" AFF.

LIGHT, SWITCH AND RECEPTACLE @ EQUIPMENT

(37) FURNISH AND INSTALL POWER STRIP/SURGE

(39) SURE_SHOT DISPENSERS: PROVIDE RECEPTACLE

SUPRESSOR, MODEL #ISOBAR2-6.

(31) STUB UP POWER, DATA, AND PHONE CONDUITS 6"

SYSTEM DETAIL.

FROM END TO END.

TIME CLOCK SYSTEM.

WARMING OVENS.

@ 26" AFF

REQUIREMENTS.

CIRCUIT @ 26" AFF

(41) NOT USED.

AT 26" AFF

(33) SWITCHING LOCATION

(28) NOT USED.

(29) NOT USED

AND STUB UP ABOVE CEILING

- (E) THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR CONFIRMING ALL VOLTAGE REQUIREMENTS ON ALL EQUIPMENT AND PROVIDING BUCK-BOOST TRANSFORMERS AS MAY BE NEEDED FOR CODE. ALL ARE NOT NECESSARILY INDICATED.
-) ELECTRICAL CONTRACTOR SHALL COORDINATE WITH PLUMBING AND HVAC CONTRACTORS FOR ANY ADDITIONAL EQUIPMENT NEEDING POWER
-) ALL FUTURE EQUIPMENT NEEDED HEREIN SHALL BE PROVIDED WITH AN APPROPRIATE RECEPTACLE AND FULLY WIRED. EVEN IF NOT SPECIFICALLY INDICATED.
- (H) GFCI BREAKERS (NOT RECEPTACLES) SHALL BE UTILIZED WHERE REQUIRED BY CODE AND AT ANY FLOOR BOXES. PROVIDE DEDICATED NEUTRAL WIRE FOR ALL THESE CIRCUITS.

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STORE #: 11917 PROJECT #: 37548-001

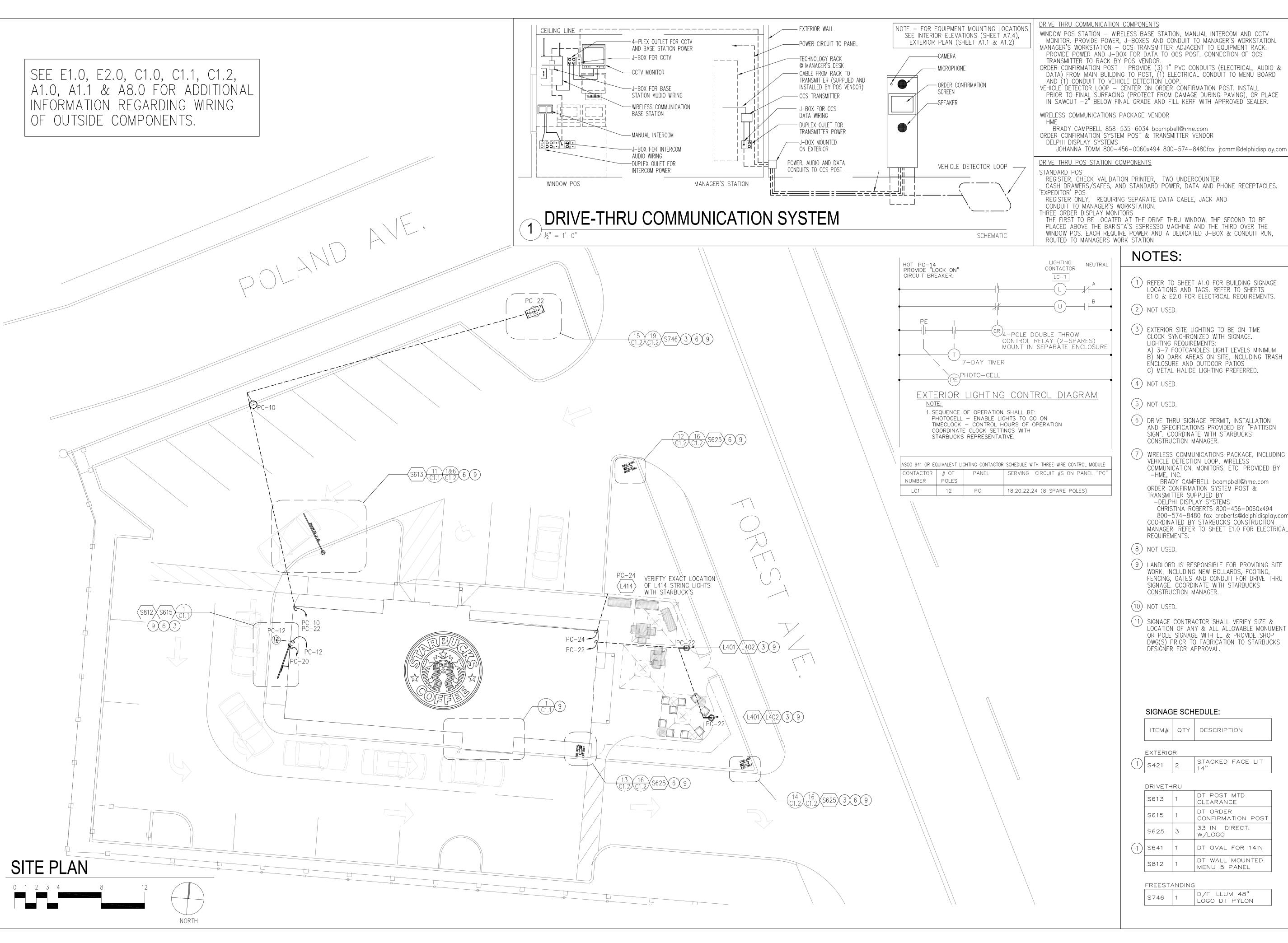
CONCEPT: MSS DT PALETTE: CLASSICO ISSUE DATE: 12-5-06 DRAWN BY: C. MILLER DESIGN BY: M. D'ANDREA CHECKED BY: A. KHACHATURIAN MARK SWIDERSKI

SHEET TITLE POWER PLAN / PANEL SCHEDULE

SCALE: (DO NOT SCALE DRAWINGS)

SHEET NUMBER

E2.0





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ARMEN KHACHATURIAN, P.E. MAINE LICENSE PE 10384

REV DATE

AVENUE 1E 04103

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1080

PORTLAND

7) WIRELESS COMMUNICATIONS PACKAGE, INCLUDING VEHICLE DETECTION LOOP, WIRELESS COMMUNICATION, MONITORS, ETC. PROVIDED BY

BRADY CAMPBELL bcampbell@hme.com ORDER CONFIRMATION SYSTEM POST &

CHRISTINA ROBERTS 800-456-0060x494 800-574-8480 fax croberts@delphidisplay.com COORDINATED BY STARBUCKS CONSTRUCTION MANAGER. REFER TO SHEET E1.0 FOR ELECTRICAL

- (9) LANDLORD IS RESPONSIBLE FOR PROVIDING SITE WORK, INCLUDING NEW BOLLARDS, FOOTING, FENCING, GATES AND CONDUIT FOR DRIVE THRU SIGNAGE. COORDINATE WITH STARBUCKS
- (11) SIGNAGE CONTRACTOR SHALL VERIFY SIZE & LOCATION OF ANY & ALL ALLOWABLE MONUMENT OR POLE SIGNAGE WITH LL & PROVIDE SHOP DWG(S) PRIOR TO FABRICATION TO STARBUCKS

		QII	DESCRIPTION
	EXTERIO	R	
(1)	S421	2	STACKED FACE LIT

S613	1	DT POST MTD CLEARANCE
S615	1	DT ORDER Confirmation pos-
S625	3	33 IN DIRECT. W/LOGO
S641	1	DT OVAL FOR 14IN
S812	1	DT WALL MOUNTED MENU 5 PANEL

D/F ILLUM 48" LOGO DT PYLON STORE #: 11917 PROJECT #: 37548-001

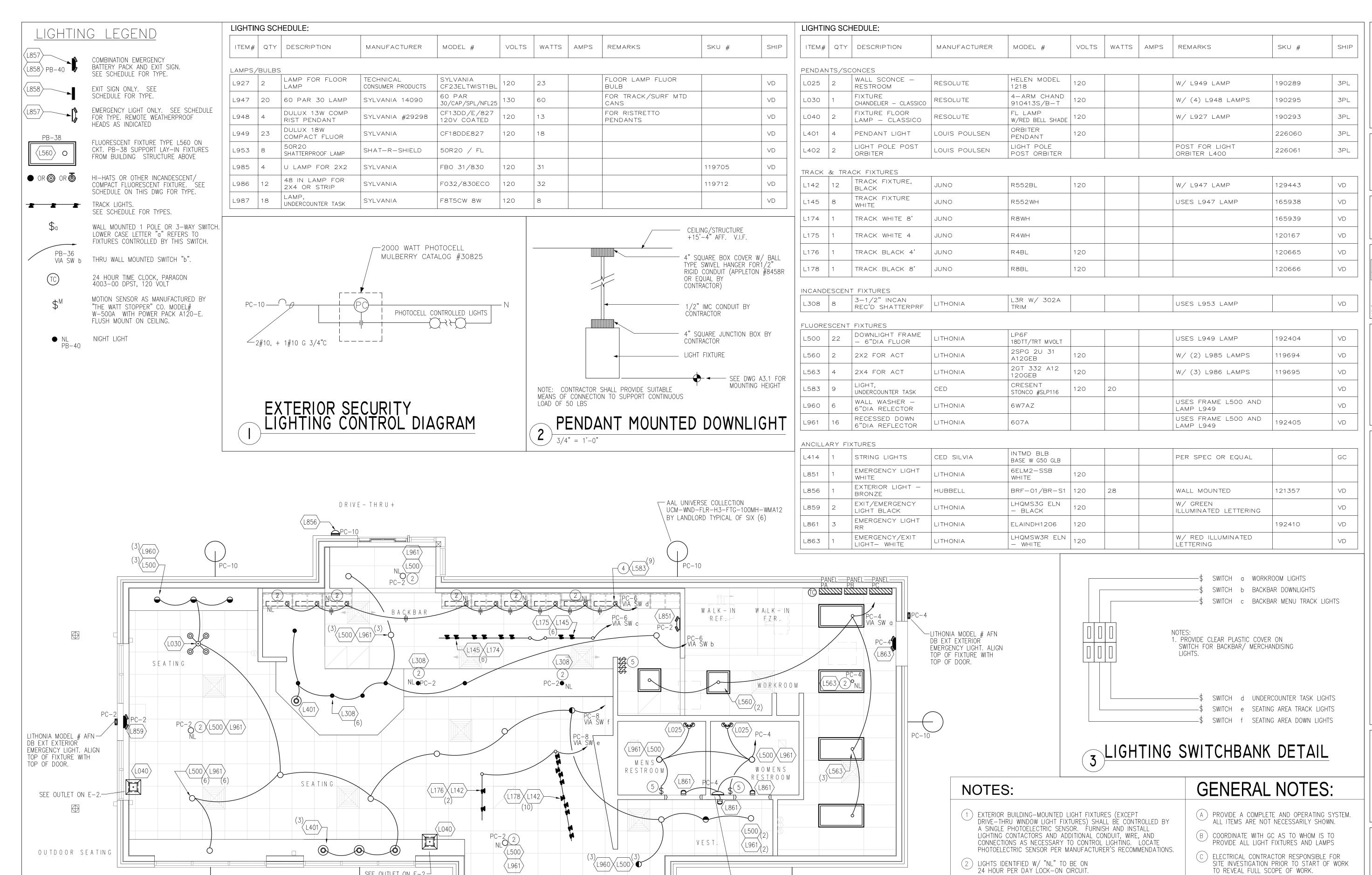
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SHEET TITLE

ELECTRICAL SITE PLAN

SCALE: (DO NOT SCALE DRAWINGS)

SHEET NUMBER



PROVIDE AND INSTALL LITHONIA —

PACK TO SUPPLY ITEM L861

MODEL # ELM627-RO EMER. BATTERY

PC-10

3 EXTERIOR BUILDING MOUNTED WALL SCONCES AT DRIVE-THRU WINDOW

TO BE CONTROLLED BY A TIME CLOCK. SEE TIMELOCK DETAIL.

(4) UNDERCABINET FLUORESCENT TASK LIGHTING TO BE CIRCUITED SO THAT 50% OF LIGHTS ARE "NL" & THE OTHER 50% ARE ON A WALL

(5) SWITCHING LOCATION

SWITCH LOCATED AT THE SWITCHBANK. STAGGER SWITCH LIGHTS.

SEE OUTLET ON E-2.

LIGHTING PLAN

 $PC-2\langle L859\rangle$

∠LITHONIA MODEL # AFN DB EXT

EXTERIOR EMERGENCY LIGHT. ALIGN TOP OF FIXTURE WITH TOP OF DOOR.

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REV DATE

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STORE #: 11917 PROJECT #: 37548-001

CONCEPT: MSS DT PALETTE: CLASSICO ISSUE DATE: 12-5-06 DRAWN BY: C. MILLER DESIGN BY: M. D'ANDREA

CHECKED BY: A. KHACHATURIAN CM: MARK SWIDERSKI

SHEET TITLE **LIGHTING** PLAN / **SCHEDULE**

SCALE:

(DO NOT SCALE DRAWINGS)

SHEET NUMBER

(D) REFER TO ARCHITECTURAL CASEWORK DETAILS

 $(\,{f e}\,\,)$ refer to architectural plans for exact

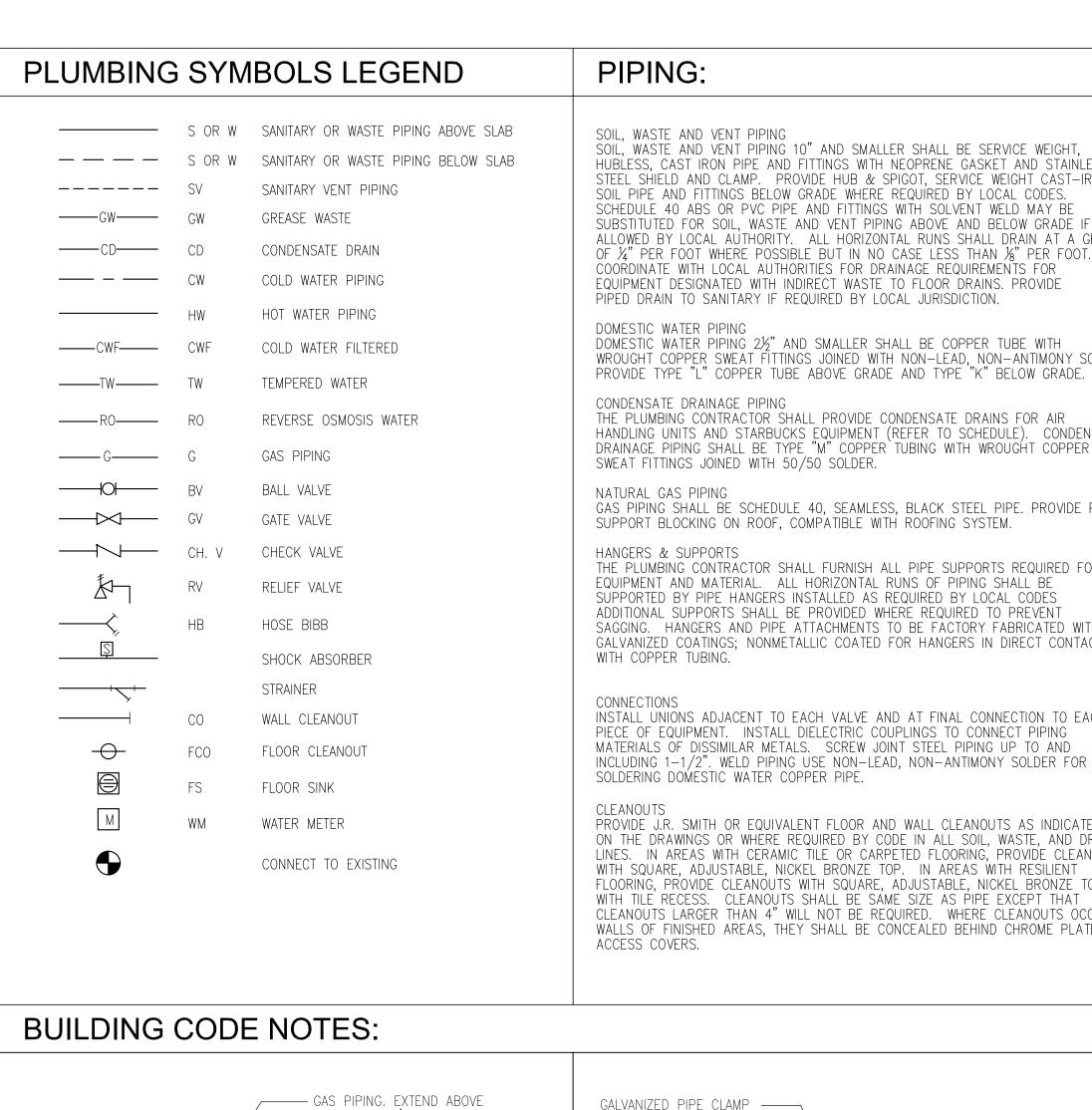
(F) CONFIRM ALL QUANTITIES IN SCHEDULE WITH

FIXTURE LOCATIONS.

THOSE IN PLAN VIEW.

FOR EXACT LOCATIONS OF LIGHT FIXTURES LOCATED IN CASEWORK.

E3.0



PIPING:

SOIL. WASTE AND VENT PIPING SOIL, WASTE AND VENT PIPING 10" AND SMALLER SHALL BE SERVICE WEIGHT, HUBLESS. CAST IRON PIPE AND FITTINGS WITH NEOPRENE GASKET AND STAINLESS STEEL SHIELD AND CLAMP. PROVIDE HUB & SPIGOT, SERVICE WEIGHT CAST-IRON SOIL PIPE AND FITTINGS BELOW GRADE WHERE REQUIRED BY LOCAL CODES. SCHEDULE 40 ABS OR PVC PIPE AND FITTINGS WITH SOLVENT WELD MAY BE SUBSTITUTED FOR SOIL, WASTE AND VENT PIPING ABOVE AND BELOW GRADE IF ALLOWED BY LOCAL AUTHORITY. ALL HORIZONTAL RUNS SHALL DRAIN AT A GRADE OF 1/4" PER FOOT WHERE POSSIBLE BUT IN NO CASE LESS THAN 1/8" PER FOOT. COORDINATE WITH LOCAL AUTHORITIES FOR DRAINAGE REQUIREMENTS FOR EQUIPMENT DESIGNATED WITH INDIRECT WASTE TO FLOOR DRAINS. PROVIDE

DOMESTIC WATER PIPING DOMESTIC WATER PIPING 21/2" AND SMALLER SHALL BE COPPER TUBE WITH WROUGHT COPPER SWEAT FITTINGS JOINED WITH NON-LEAD, NON-ANTIMONY SOLDER.

CONDENSATE DRAINAGE PIPING THE PLUMBING CONTRACTOR SHALL PROVIDE CONDENSATE DRAINS FOR AIR HANDLING UNITS AND STARBUCKS EQUIPMENT (REFER TO SCHEDULE). CONDENSATE DRAINAGE PIPING SHALL BE TYPE "M" COPPER TUBING WITH WROUGHT COPPER

NATURAL GAS PIPING GAS PIPING SHALL BE SCHEDULE 40, SEAMLESS, BLACK STEEL PIPE. PROVIDE PIPING SUPPORT BLOCKING ON ROOF, COMPATIBLE WITH ROOFING SYSTEM.

HANGERS & SUPPORTS THE PLUMBING CONTRACTOR SHALL FURNISH ALL PIPE SUPPORTS REQUIRED FOR EQUIPMENT AND MATERIAL. ALL HORIZONTAL RUNS OF PIPING SHALL BE SUPPORTED BY PIPE HANGERS INSTALLED AS REQUIRED BY LOCAL CODES ADDITIONAL SUPPORTS SHALL BE PROVIDED WHERE REQUIRED TO PREVENT SAGGING. HANGERS AND PIPE ATTACHMENTS TO BE FACTORY FABRICATED WITH GALVANIZED COATINGS; NONMETALLIC COATED FOR HANGERS IN DIRECT CONTACT WITH COPPER TUBING.

INSTALL UNIONS ADJACENT TO EACH VALVE AND AT FINAL CONNECTION TO EACH PIECE OF EQUIPMENT. INSTALL DIELECTRIC COUPLINGS TO CONNECT PIPING MATERIALS OF DISSIMILAR METALS. SCREW JOINT STEEL PIPING UP TO AND INCLUDING 1-1/2". WELD PIPING USE NON-LEAD, NON-ANTIMONY SOLDER FOR SOLDERING DOMESTIC WATER COPPER PIPE.

PROVIDE J.R. SMITH OR EQUIVALENT FLOOR AND WALL CLEANOUTS AS INDICATED ON THE DRAWINGS OR WHERE REQUIRED BY CODE IN ALL SOIL, WASTE, AND DRAIN LINES. IN AREAS WITH CERAMIC TILE OR CARPETED FLOORING, PROVIDE CLEANOUTS WITH SQUARE, ADJUSTABLE, NICKEL BRONZE TOP. IN AREAS WITH RESILIENT FLOORING, PROVIDE CLEANOUTS WITH SQUARE, ADJUSTABLE, NICKEL BRONZE TOP WITH TILE RECESS. CLEANOUTS SHALL BE SAME SIZE AS PIPE EXCEPT THAT CLEANOUTS LARGER THAN 4" WILL NOT BE REQUIRED. WHERE CLEANOUTS OCCUR IN WALLS OF FINISHED AREAS, THEY SHALL BE CONCEALED BEHIND CHROME PLATED ACCESS COVERS.

—— 4×6 × 12" TREATED

ROOF WALK MAT

BASE SHEET

V-NOTCH

SUPPORT BLOCK W/

-18" x 18" x1/2" THICK

SECTION

DO NOT CLAMP TIGHT

EXISTG ROOFING—

LÁG BOLT

1/4" x 1-1/2" GALV —

PIPING (CONTINUED):

INSTALL EXPOSED PIPING FREE OF SAGS AND BENDS. PROVIDE BRACKET STANDOFFS FROM MOUNTING SURFACES SUFFICIENT TO ALLOW 1" CLEANING SPACE AROUND ALL PIPING, INCLUDING ANY ADDED PIPING INSULATION. INSTALL FITINGS FOR CHANGES IN DIRECTION AND BRANCH CONNECTIONS. INSTALL SLEEVES FOR PIPES PASSING THROUGH CONCRETE AND MASONRY WALLS, GYPSUM BOARD PARTITIONS, CONCRETE FLOOR AND ROOF SLABS. SEAL PIPE PENETRATIONS THROUGH RATED CONSTRUCTION WITH FIRESTOPPING SEALANT MATERIAL. UNDERGROUND WATER AND SEWER LINES SHALL BE LAID IN SEPARATE TRENCHES WITH A MINIMUM HORIZONTAL SPACING AS REQUIRED BY CODE, EXCAVATED TO THE PROPER DEPTH AND GRADED TO PRODUCE THE REQUIRED FALL.

ALL PIPES SHALL BE TESTED BY AN APPROVED METHOD BEFORE THEY ARE BACKFILLED OR CONCEALED. AFTER TESTING IS COMPLETE, THE PLUMBING CONTRACTOR SHALL DISINFECT THE POTABLE WATER SYSTEM AS REQUIRED BY LOCAL AUTHORITY. TEST WATER PURITY ACCORDING TO LOCAL REQUIREMENTS AND SUBMIT CERTIFIED TEST RESULTS TO ENGINEER FOR REVIEW AND APPROVAL.

INSULATION:

WATER PIPING PROVIDE THERMAL INSULATION ON ALL HOT & COLD WATER, AND HORIZONTAL WASTE PIPING IN CEILING SPACES, AND ON ALL COLD WATER PIPING IN CASEWORK AND BAR AREAS. USE SELF-SEALING CLOSED CELL FOAM OR JACKETED FIBERGLASS INSULATION WITH MANUFACTURE APPROVED ADHESIVES, SEALERS, AND COATINGS. ALL MATERIALS USED SHALL NOT EXCEED 25 FOR FLAME SPREAD, 50 FOR FUEL CONTRIBUTED, OR 50 FOR SMOKE DEVELOPED. UNLESS OTHERWISE REQUIRED BY THE LOCAL AUTHORITY OR ENERGY CODES, THE MINIMUM INSULATION LEVELS SHALL BE AS FOLLOWS:

INSULATION THICKNESS EQUAL TO 11/3" 2" DIA. OR \overline{G} REATER 1-1/2" (INSULATION VALUE = k VÁLUE NOT EXCEEDING .027 BTU PER INCH/h*ft *f

SAFETY COVERS

INSTALL SPECIFIED NO-SCALD SAFETY COVERS WITH INSULATED FOAM LINER AND TAMPER PROOF STRAP AS FURNISHED BY STARBUCKS AT ALL EXPOSED PIPING.

INSULATE ICE BIN COPPER DRAIN LINES WITH $\frac{1}{2}$ " THICK, SELF-SEALING, SECTIONAL, CLOSED CELL FOAM.

HVAC PIPING INSULATE REFRIGERANT SUCTION PIPING AND COOLING COIL CONDENSATE PIPING WITH 34" THICK, SELF SEALING, CLOSED CELL FOAM. INSULATE HVAC HOT AND CHILLED WATER PIPING SYSTEMS AND LOW PRESSURE STEAM AND CONDENSATE PIPING WITH 1-1/2" THICK, HEAVY DUTY, SELF SEALING, JACKETED FIBERGLASS.

INSULATE RAIN WATER CONDUCTORS WHICH PASS THROUGH OCCUPIED AREAS WITH 为" THICK FIBERGLASS.

VALVES:

PLUMBING CONTRACTOR TO PROVIDE VALVES WHERE INDICATED ON PLANS AND AS NECESSARY FOR PROPER SYSTEM OPERATION AND COMPONENT ISOLATION. INSTALL VALVES FOR EACH FIXTURE AND ITEM OF EQUIPMENT. PROVIDE BRAIDED STAINLESS STEEL HOSE (UNLESS OTHERWISE NOTED) BETWEEN VALVE AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. LOCATE SHUT-OFF VALVES ADJACENT TO EQUIPMENT FOR EASY ACCESS SUCH THAT VALVES CAN BE REACHED WITHOUT MOVING EQUIPMENT.

PROVIDE VALVES FOR WORKING PRESSURE IN WATER PIPING OF 125 PSI OR GREATER. UNLESS NOTED OTHERWISE VALVES SHALL BE AS FOLLOWS:

> VALVE TYPE MANUFACTURER MODEL NO. CHECK VALVE (UP TO 2") #S-22 #S-FP-600 FULL PORT BALL VALVE (UP TO 3") NIBCO GATE VALVE (UP TO NIBCO #S-113 TEMPERATURE AND PRÉSSURE RELIEF VALVE #TP1100A WILKINS WATER HAMMER ARRESTOR WILKINS #1250 BACKFLOW PREVENTER (WHOLE-HOUSE) WILKINS #950XLU WILKINS BACKFLOW PREVENTER (SINGLE DEVICE) #700 #35VCH VACUUM RELIEF VALVE WILKINS PRESSURE REDUCING VALVE WILKINS "#500YSBR TRAP SEAL PRIMER JAY R. SMITH #2699-1

IF WATER PRESSURE SUPPLIED TO STORE IS GREATER THAN AND 65 PSL. THEN PROVIDE A PRESSURE REGULATOR TO MAIN SUPPLY TO MAINTAIN WATER PRESSURE. PROVIDE BACKFLOW PREVENTION ON WATER SERVICE IF REQUIRED BY LOCAL CODES.

MISC. PLUMBING FIXTURES:

PROVIDE AN A.O. SMITH OR EQUIVALENT, GLASS-LINED, ENERGY EFFICIENT, GAS-FIRED WATER HEATER, WITH CAPACITY AS INDICATED IN THE PLANS. WHERE GAS IS NOT AVAILABLE, PROVIDE AN A.O. SMITH OR EQUIVALENT ENERGY EFFICIENT, GLASS LINED, ELECTRIC WATER HEATER WITH SIMILAR CAPACITY AND RECOVERY RATES. PROVIDE INSTALLATION COMPLETE WITH FITTINGS AS SHOWN IN THE DRAWINGS.

WATER FILTRATION - SYSTEM "A" PLUMBING CONTRACTOR TO INSTALL WATER FILTRATION SYSTEM FURNISHED BY STARBUCKS, AS INDICATED ON THE PLANS. PROVIDE INSTALLATION COMPLETE WITH ALL PIPING, FITTINGS, AND EQUIPMENT AS INDICATED ON THE DRAWINGS.

GENERAL PLUMBING NOTES:

THE INTENT OF THE SPECIFICATION AND THE DRAWINGS IS TO PROVIDE A COMPLETE AND FULLY OPERATIONAL PLUMBING SYSTEM. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL AND EQUIPMENT RELATED TO THE INSTALLATION OF THE PLUMBING WORK.

SITE EXAMINATION THE CONTRACTOR SHALL THOROUGHLY EXAMINE ALL AREAS WHERE FIXTURES, EQUIPMENT, AND PIPING WILL BE INSTALLED AND WILL REPORT ANY

CONDITION THAT, IN HIS OPINION, PREVENTS THE PROPER INSTALLATION OF THE PLUMBING WORK.

EQUIPMENT AND MATERIALS SHALL CONFORM WITH APPROPRIATE PROVISIONS OF ASME, ASTM, UL. NEMA, ANSI, ASHRAE, NFPA, AS APPLICABLE TO EACH INDIVIDUAL UNIT OR ASSEMBLY.

CODES

ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES. IN CASE OF CONFLICT BETWEEN THE DRAWINGS/SPECIFICATIONS AND THE CODES AND ORDINANCES, THE HIGHEST STANDARD SHALL APPLY. THE CONTRACTOR SHALL SATISFY CODE REQUIREMENTS AS A MINIMUM STANDARD WITHOUT ANY EXTRA COST TO STARBUCKS.

PERMITS AND FEES

THE CONTRACTOR SHALL PROCURE AND PAY FOR ALL PERMITS, FEES AND INSPECTIONS NECESSARY TO COMPLETE THE PLUMBING WORK.

WARRANTY

THE CONTRACTOR SHALL UNCONDITIONALLY WARRANT ALL WORK TO BE FREE OF DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY STARBUCKS AND WILL REPAIR OR REPLACE ANY DEFECTIVE WORK PROMPTLY AND WITHOUT CHARGE AND RESTORE ANY OTHER EXISTING WORK DAMAGED IN THE COURSE OF REPAIRING DEFECTIVE MATERIALS AND WORKMANSHIP.

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REV DATE

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CUMBER

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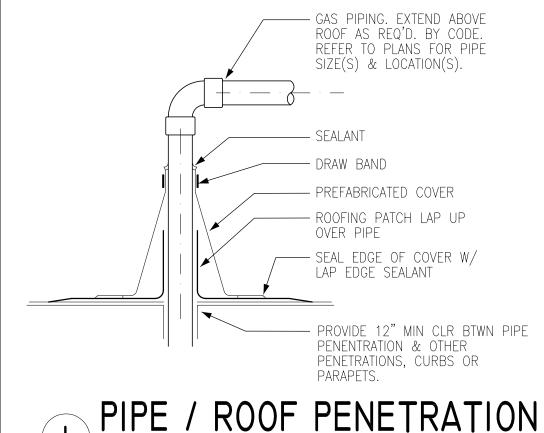
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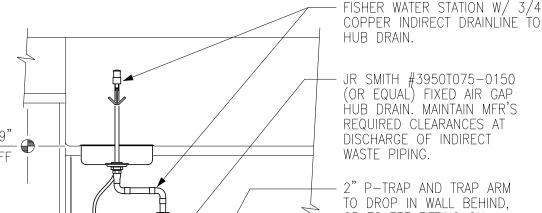
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PLUMBING LEGEND & NOTES

SCALE: (DO NOT SCALE DRAWINGS)

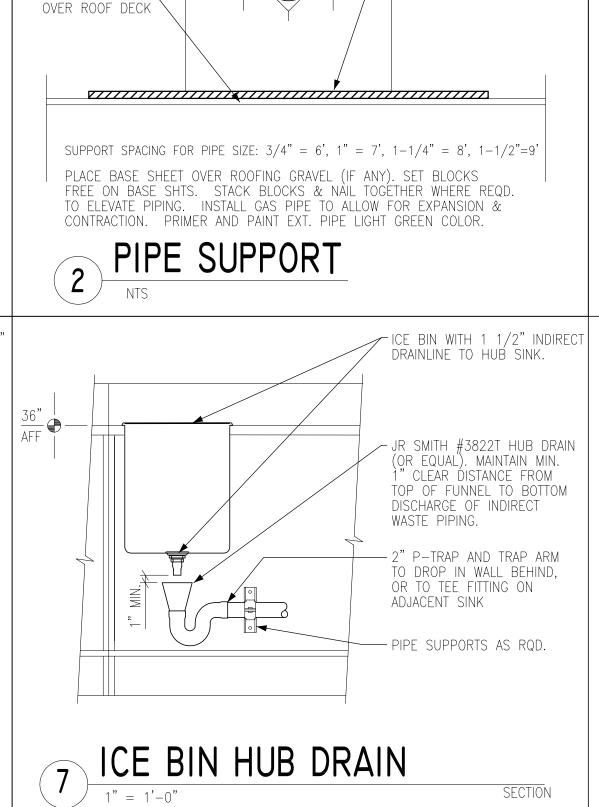
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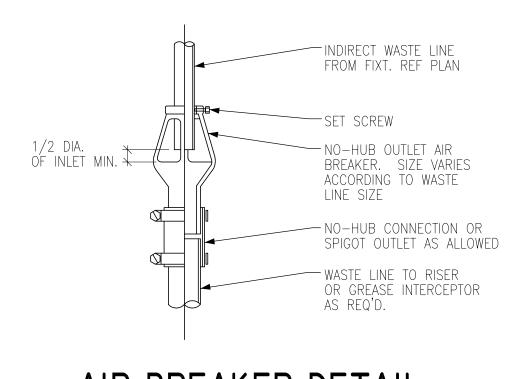




OR TO TEE FITTING ON ADJACENT SINK PIPE SUPPORTS AS RQD. CWF SHUT-OFF & SUPPLY LINE TO WATER STATION ABOVE

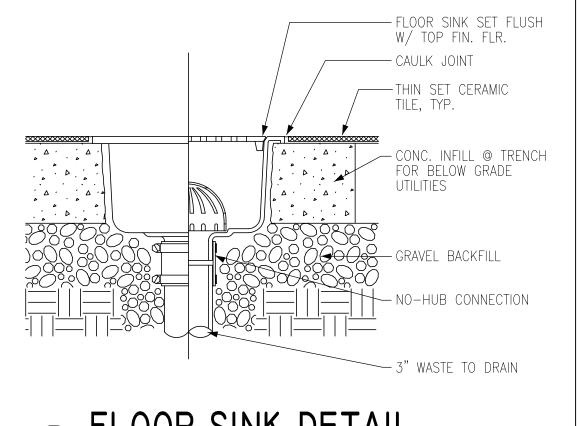
WATER STATION HUB DRAIN



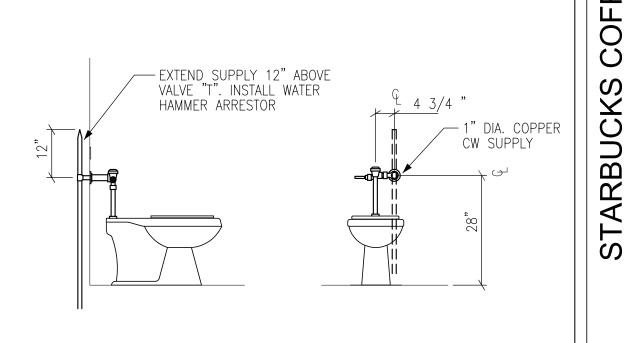


3 AIR BREAKER DETAIL

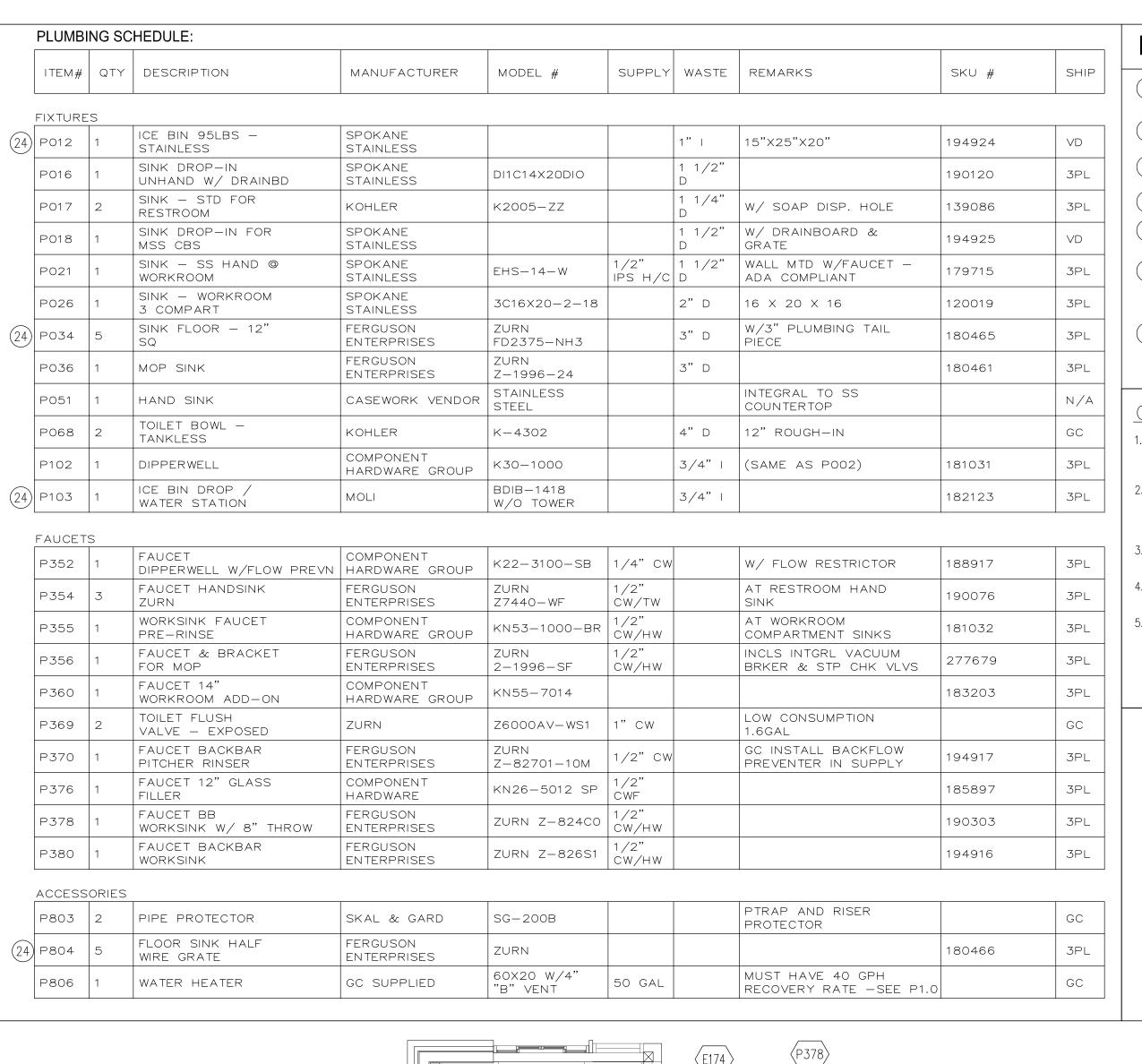
N.T.S.



FLOOR SINK DETAIL



TOILET SUPPLY DETAIL



DRIVE - THRU

11) (30) (P102) (P352)

SEATING

PLUMBING SUPPLY PLAN

(10) (30) (E162)

P380 P370 P018 30 19-

SEATING

OUTDOOR SEATING

PLUMBING GENERAL NOTES:

- (A) F&I A COMPLETE AND OPERATING SYSTEM. ALL ITEMS ARE NOT NECESSARILY SHOWN.
- (B) PLUMBING CONTRACTOR RESPONSIBLE FOR SITE INVESTIGATION PRIOR TO START OF WORK TO REVEAL FULL SCOPE OF WORK
- (C) COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER CONNECTION TO ALL PLUMBING EQUIPMENT.
- D) DIMENSIONS ARE TO FINISH FACE UNLESS OTHERWISE NOTED REFER TO DETAIL SHEETS FOR PLUMBING FITTINGS LOCATED IN
- (F) COLD WATER SUPPLY LINES INSIDE CASEWORK & BAR AREA TO BE COVERED WITH ½" THICK SELF SEALING, SECTIONAL CLOSED-CELL FOAM INSULLATION. REFER TO SPECIFICATIONS FOR HOT WATER SUPPLY LINE INSULATION REQUIREMENTS.
- CONTRACTOR SHALL CONTACT WATER FILTER SUPPLIER 10 DAYS MINIMUM) BEFORE THE TIME THAT THE FILTER SYSTEM IS TO BE STARTED UP.

gas piping notes

-8 P051 P354

NËW 5 TON

! RTU-1 ROOF

P369 P068 14

SALES

REF.

MENS

RESTROOM

<u>(E451)</u>

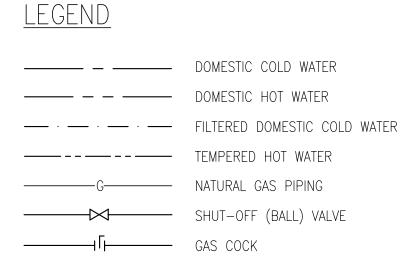
NEW 7.5 TON

RTU-2 ROOF

TOP UNIT.

CASEWORK.

- GAS PIPING SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF NFPA54 (ANSI Z233.1), LOCAL UTILITY COMPANY AND THE STATE UNIFORM CONSTRUCTION CODE.
- PIPING SHALL BE SCHEDULE 40, BLACK STEEL PIPE CONFORMING TO ASTM A120. FITTINGS SHALL BE MALLEABLE IRON, THREADED CONFORMING TO ANSI B16.3. UNIONS SHALL BE MALLEABLE IRON CONFORMING TO ANSI B16.11.
- . HOT WATER HEATERS SHALL BE APPROVED AND BEAR THE LABEL OF AN ACCEPTABLE TESTING AGENCY.
- 4. EACH GAS APPLIANCE SHALL HAVE A COPY OF THE INSTALLATION INSTRUCTION ATTACHED.
- GAS SERVICE AND PIPING SHALL BE FOR NATURAL GAS WITH A SPECIFIC GRAVITY OF 0.60 AND A HEATING CONTENT OF 1050 BTU/CU.FT. GAS SERVICE SHALL BE ONE PSIG ASARRANGED WITH THE UTILITY COMPANY. PROVIDE REGULATORS & RELIEF PIPING TO DISCHARGE TO OUTSIDE.



FZR.

(P806)

WORKROOM

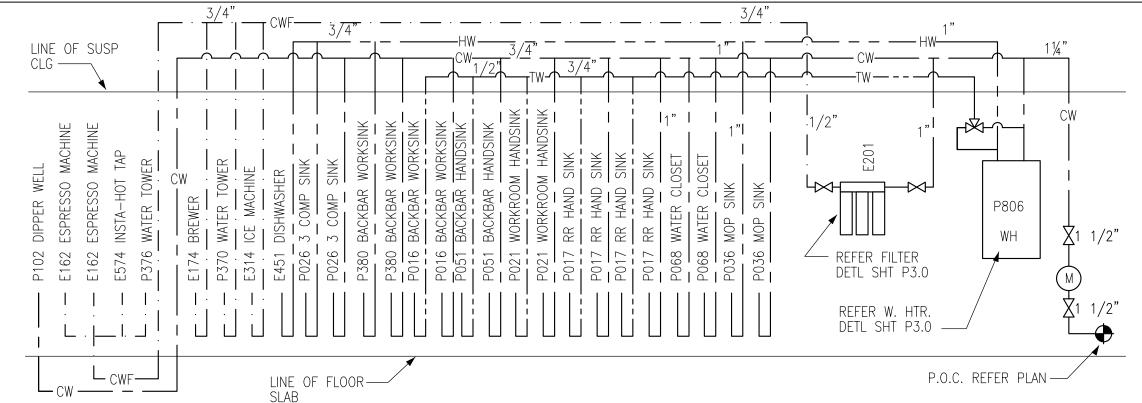
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P036 P356

(P068)

RESTROOM

V E S T



SUPPLY PIPING DIAGRAM - FILTER SYSTEM "A"

ALL LINES ARE 1/2" UNLESS OTHERWISE NOTED

RTU-2200,000 BTUH RTU-11-1/4" 130,000 BTUH HOT WATER HEATER 65,000 BTUH 1 1-1/4" 1-1/4" NEW GAS METER

GAS RISER NOTES 1. THIS CONTRACTOR SHALL RUN A NEW GAS LINE TO ALL NEW APPLIANCES.

AND SERVICE

-MOUNT METERING, SHUT-OFF, AND BACK FLOW PREVENTOR AT 3'0" A.F.F.

-20 25 PROVIDE SHUTOFF VALVE AND TIE INTO EXISTING 21 30 WATER SUPPLY LINE.

$\langle E574 \rangle$ $\langle E162 \rangle$ VERISMO INSTA-HOT ESPRESSO MACHINE ∠ 1/4" COPPER LINE 3/8" COPPER LINE 1/2" COPPER LINES ∕-3/8" MALE COMPRESSION -3/8" COPPER LINE BALL VALVE 3/8" COPPER LINE ≺P376> ⟨E162⟩--/-|**>**--OPTIONAL VERISMO WATER TOWER ESPRESSO MACHINE 3/8" MALE COMPRESSION AT MAIN BARISTA BALL VALVE -1/2" COPPER LINES -BALL VALVE @ STUB UP 3/4" CWF SUPPLY -

FRONTLINE BARISTA CWF MANIFOLD SCHEMATIC

GAS ISOMETRIC RISER DIAGRAM

NOTES:

- 1) ¾" CW TO WATER HEATER & ¾" HW FROM WATER HEATER.
-) WATER HEATER AS SPECIFIED AND IN COMPLIANCE WITH APPLICABLE CODES AND ORDINANCES. DIMENSIONS OF THE HEATER SHALLALLOW INSTALLATION ABOVE THE MOP SINK. REFER TO WATER HEATER DETAIL.

- 7) 1/2" CWF TO ICE MACHINE. REDUCE TO 3/4" AT MACHINE
- $(8) \frac{1}{2}$ " TW & CW TO SINK
- 1/2" CWF TO COFFEE BREWER. INSTALL, SHUT-OFF IN CABINET @ 24" AFF REDUCE TO 3/8" AT UNIT.

BACKFLOW PREVENTERS/VACUUM BREAKERS SCHEDULE:

APPLICATION	MANUF.	MODEL #	DESCRIPTION
MOP SINK	WATTS	8	HOSE CONNECTION VACUUM BREAKER
COFFEE BREWER			
ESPRESSO MACHINES			
COLD BEVERAGE STATION			
HOT WATER HEATER	WATTS	7	DUAL CHECK
ICE MAKER			
DIPPERWELL			
DISHWASHER	WATTS	008PC-QT	SPILL RESISTANT ANTI-SIPHON VACUUM BREAKER
INCOMING WATER SERVICE	WATTS	RPZ 009	REDUCED PRESSURE ZONE WITH DOUBLE CHECK & INTERMEDIATE RELIEF

- (11) 1/2" CW TO DIPPERWELL FAUCET
- (12) 3/4" CWF TO HOT WATER TAP. REDUCE TO 1/4" AT (13) 3/8" CWF TO WATER TOWER FAUCET LOCATED IN WATER STATION
- (14) 1" CW TO TOILET. PROVIDE WATER HAMMER
- ARRESTOR IN SUPPLY LINE. SEE DETAIL.
- (15) ½" TW STUB-UP THRU FLOOR
- (16) 34" CW STUB-UP THRU FLOOR (17) 34" CWF STUB-UP THRU FLOOR
- (18) ½" HW STUB-UP THRU FLOOR
- (19) 1/2" HW & CW TO SINK (20) WATER SUB-METER
- (21) PRESSURE REGULATOR
- (22) NOT USED. (23) NOT USED.
- (24) SEE SHEET P3.0 FOR TAG AND LOCATION
- TIE INTO EXISTING DOMESTIC WATER SERVICE.
 VERIFY EXACT LOCATION, PRESSURE AND
 REQUIREMENTS ON SITE.
- (26) 34" GAS TO WATER HEATER WITH APPROVED SHUT-OFF VALVE & DIRT LEG.
- (27) NOT USED.
- TIE INTO EXISTING GAS SERVICE. VERIFY EXACT LOCATION, PRESSURE AND REQUIREMENTS ON SITE.
- (29) NOT USED.
- (30) BACKFLOW PREVENTER IF REQUIRED BY AHJ
- REFRIGERATOR EVAPORATOR—FAN UNIT FURNISHED E OWNER, INSTALLED BY CONTRACTOR. INSTALLED PER DRAWINGS & MANUFACTURER'S RECOMMENDATIONS T INSIDE CEILING OF REFRIGERATOR UNIT.
- (32) FREEZER EVAPORATOR-FAN UNIT FURNISHED BY OWNER, INSTALLED BY CONTRACTOR. INSTALLED PER DRAWINGS & MANUFACTURER'S RECOMMENDATIONS TO INSIDE CEILING OF REFRIGERATOR UNIT.
- (33) REFRIGERANT PIPING FURNISHED BY OWNER, INSTALLED BY CONTRACTOR. INSTALL PRE-CHARGED LINES TO REMOTE CONDENSING UNIT PER MANUFACTURER'S RECOMMENDATIONS
- (34) REFRIGERATOR CONDENSING UNIT ON ROOF, FURNISHED BY OWNER, INSTALLED BY CONTRACTOR. (35) FREEZER CONDENSING UNIT ON ROOF, FURNISHED

BY OWNER, INSTALLED BY CONTRACTOR



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PORT

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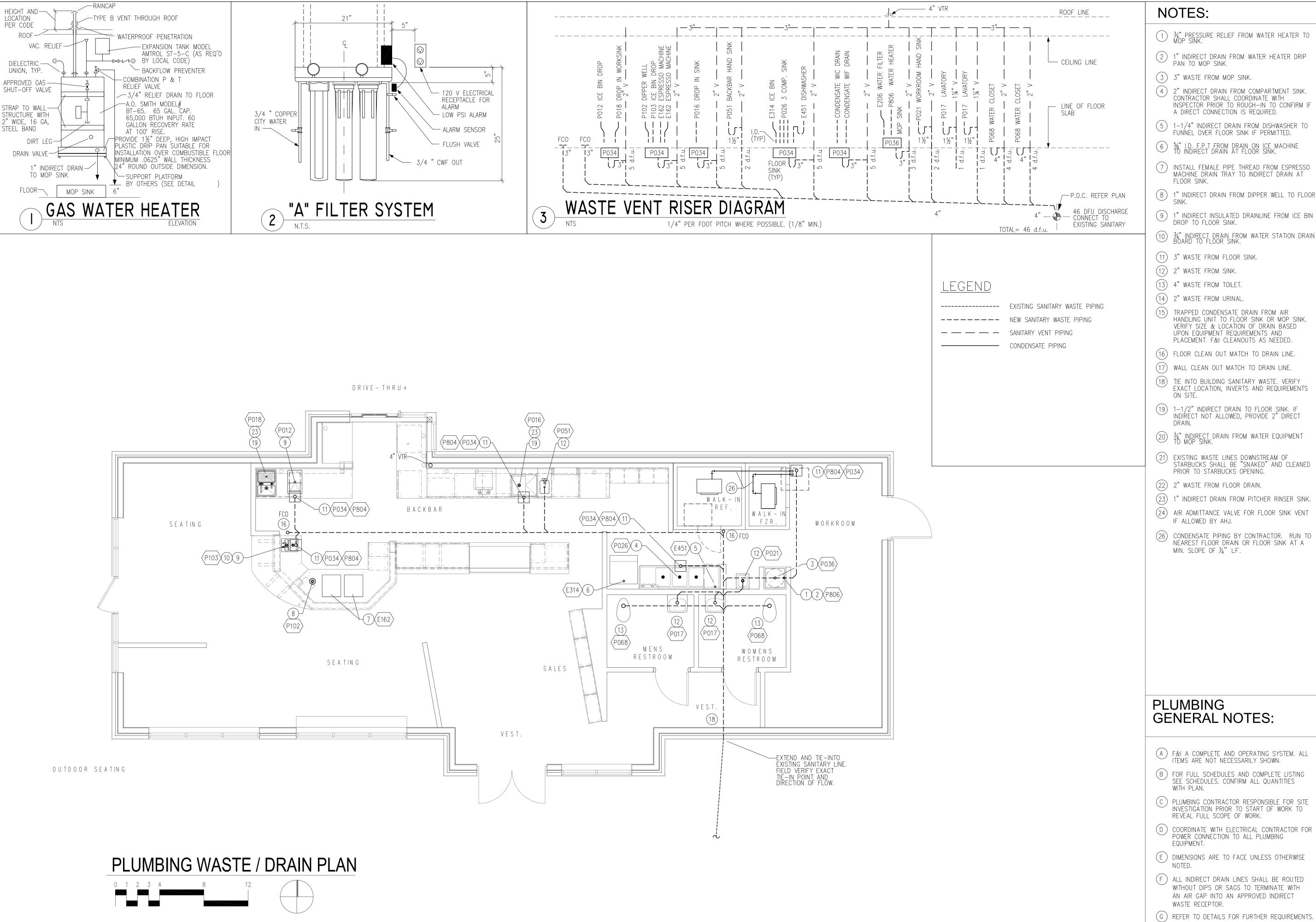
PLUMBING SUPPLY /

SCHEDULE SCALE:

SHEET NUMBER

(DO NOT SCALE DRAWINGS)

P2.0



- 1) 34" PRESSURE RELIEF FROM WATER HEATER TO MOP SINK
- 2 1" INDIRECT DRAIN FROM WATER HEATER DRIP PAN TO MOP SINK.
- 3 3" WASTE FROM MOP SINK.
- (4) 2" INDIRECT DRAIN FROM COMPARTMENT SINK. CONTRACTOR SHALL COORDINATE WITH INSPECTOR PRIOR TO ROUGH-IN TO CONFIRM IF A DIRECT CONNECTION IS REQUIRED.
- 5) 1–1/4" INDIRECT DRAIN FROM DISHWASHER TO FUNNEL OVER FLOOR SINK IF PERMITTED.
- 6 %" I.D. F.P.T FROM DRAIN ON ICE MACHINE TO INDIRECT DRAIN AT FLOOR SINK.
- (7) INSTALL FEMALE PIPE THREAD FROM ESPRESSO MACHINE DRAIN TRAY TO INDIRECT DRAIN AT
- 8 1" INDIRECT DRAIN FROM DIPPER WELL TO FLOOR SINK.
- 9 1" INDIRECT INSULATED DRAINLINE FROM ICE BIN
- 10 34" INDIRECT DRAIN FROM WATER STATION DRAIN BOARD TO FLOOR SINK.
- (12) 2" WASTE FROM SINK.
- (13) 4" WASTE FROM TOILET.
- (14) 2" WASTE FROM URINAL.
- (15) TRAPPED CONDENSATE DRAIN FROM AIR HANDLING UNIT TO FLOOR SINK OR MOP SINK. VERIFY SIZE & LOCATION OF DRAIN BASED UPON EQUIPMENT REQUIREMENTS AND PLACEMENT. F&I CLEANOUTS AS NEEDED.
- (16) FLOOR CLEAN OUT MATCH TO DRAIN LINE.
- (17) WALL CLEAN OUT MATCH TO DRAIN LINE.
- (18) TIE INTO BUILDING SANITARY WASTE. VERIFY EXACT LOCATION, INVERTS AND REQUIREMENTS
- 19 1-1/2" INDIRECT DRAIN TO FLOOR SINK. IF INDIRECT NOT ALLOWED, PROVIDE 2" DIRECT
- (21) EXISTING WASTE LINES DOWNSTREAM OF STARBUCKS SHALL BE "SNAKED" AND CLEANED PRIOR TO STARBUCKS OPENING.
- (22) 2" WASTE FROM FLOOR DRAIN.
- (23) 1" INDIRECT DRAIN FROM PITCHER RINSER SINK.
- (24) AIR ADMITTANCE VALVE FOR FLOOR SINK VENT IF ALLOWED BY AHJ.
- (26) CONDENSATE PIPING BY CONTRACTOR. RUN TO NEAREST FLOOR DRAIN OR FLOOR SINK AT A MIN. SLOPE OF 1/4" LF.

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SHEET TITLE

PLUMBING WASTE PLAN

SCALE: (DO NOT SCALE DRAWINGS)

SHEET NUMBER

P3.0