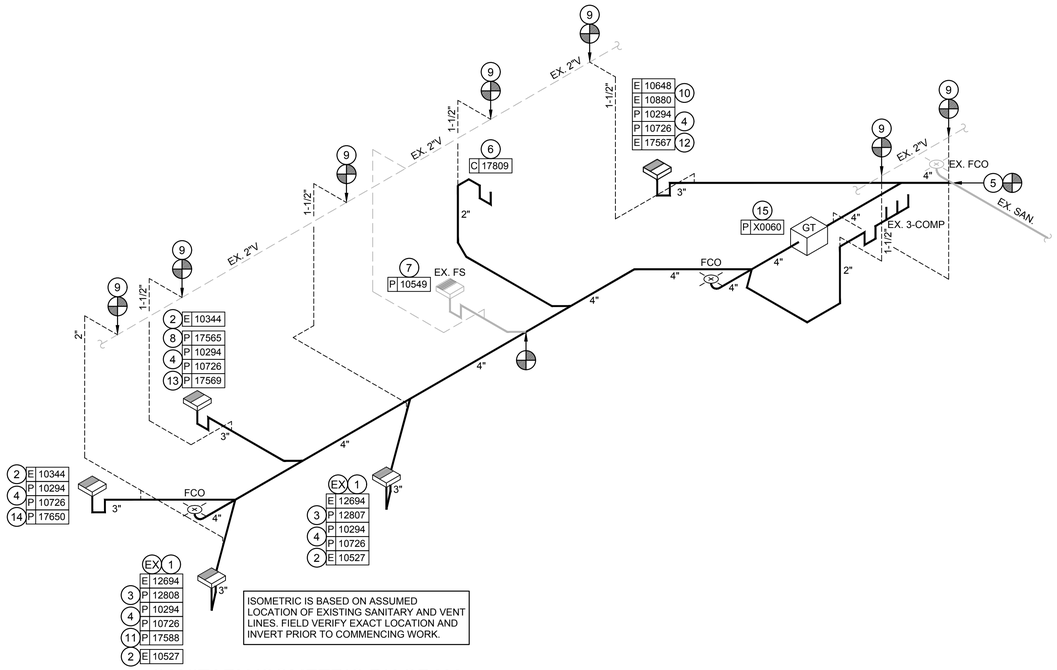
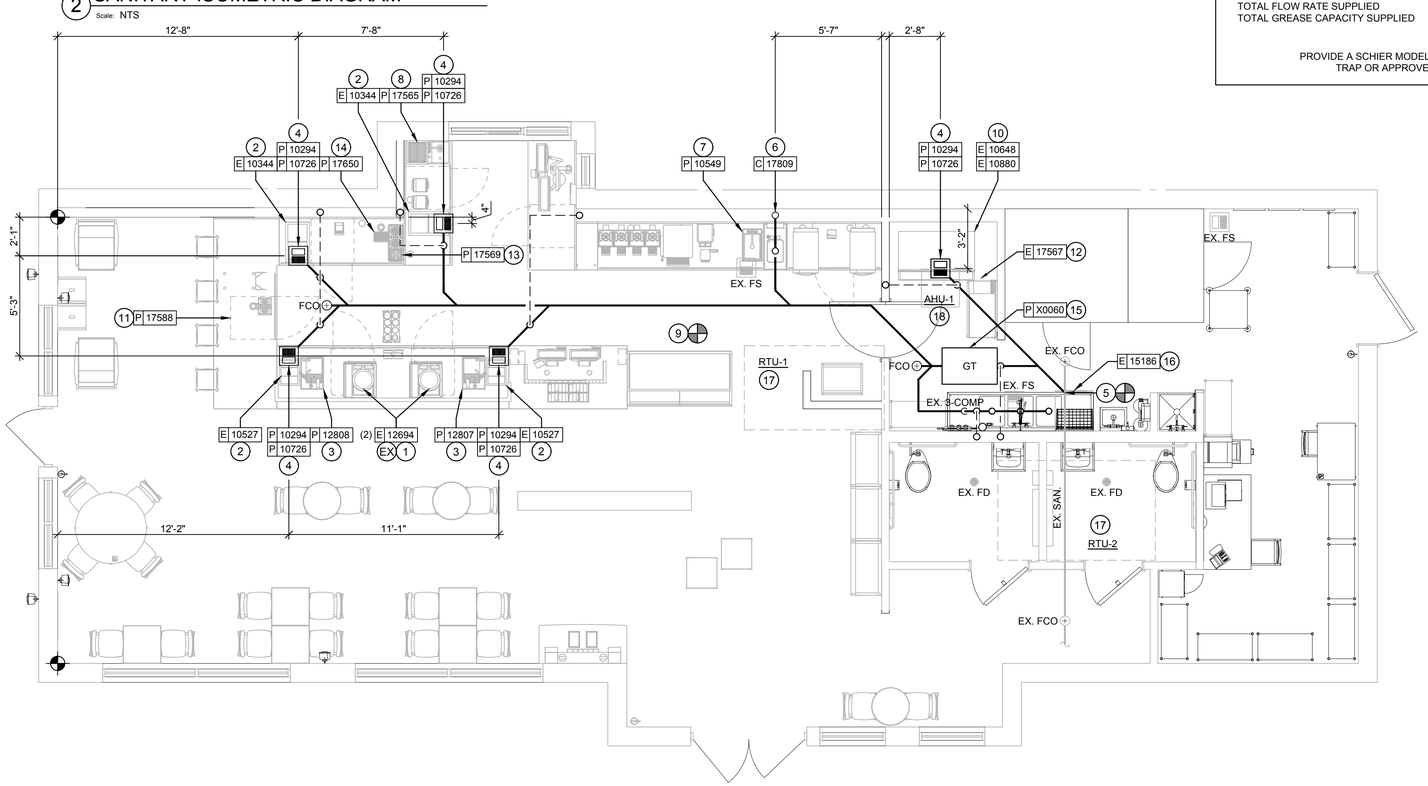


2 SANITARY ISOMETRIC DIAGRAM

Scale: NTS



1 PLUMBING WASTE PLAN

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

0 2' 4' 8'

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

N

USE EXISTING FLOOR RECEPTACLES WHERE APPLICABLE. CAP OFF AND FILL ANY EXISTING THAT ARE NOT USED. EXISTING PLUMBING AND FLOOR LOCATIONS MUST BE VERIFIED IN FIELD AND COORDINATED WITH CASEWORK VENDOR.

DFU CALCULATION

FIXTURE	QTY.	DFU EACH	TOTAL
EXISTING WATER CLOSET (VALVE)	2	4	8
EXISTING LAVATORY	2	1	2
EXISTING MOP SINK	1	3	3
EXISTING 3-COMPARTMENT SINK	1	2	2
EXISTING WAREWASHER (.74 GPM)	1	3	3
EXISTING HAND SINK	1	1	1
EXISTING FLOOR DRAIN	2	6	12
ICE MACHINE AND BIN	1	0.5	0.5
HAND SINK	1	1	1
KITCHEN SINK	4	3	12
ICE BIN	4	0.5	2
DRAIN TRAYS	2	0.5	1
WATER CHILLER	1	0.5	0.5
ESPRESSO MACHINE	2	0.5	1
TOTAL DFU REQUIRED			49

49 DFU PER THE 2015 UNIFORM PLUMBING CODE. 1

GREASE TRAP CALCULATION

EQUIPMENT	DESCRIPTION	COMP'T SIZE	FLOW RATE REQUIRED
EXISTING	3-COMP SINK	3(19"x16"x14") = 12,768 CI/231(.75)=	41.5
17565	RINSE SINK	13"x10"x14" = 1,820 CI/231(.75)= 13"x12"x1.75" = 273 CI/231(.75)=	6 0.9
12807 / 12808	BARISTA SINK	15.5"x10"x10" = 1,550 CI/231(.75)= (2 TOTAL)	10.1
10549	WORK SINK	16.75"x10.875"x12" = 2185.875 CI/231(.75)=	7.1
17809	HAND SINK	14"x10"x6" = 840 CI/231(.75)= (2 TOTAL)	5.5
17569 / 17650	DRAIN TRAYS	ESTIMATED 1 GPM EACH (2 TOTAL)	2
10344 / 10527	ICE BIN	ESTIMATED 1 GPM EACH (3 TOTAL)	3
12694	BARISTA MACHINE	ESTIMATED 1 GPM EACH (2 TOTAL)	2
17588	NITRO BREWER	ESTIMATED 1 GPM EACH (1 TOTAL)	1

TOTAL GPM =	79.1 GPM
2 MIN. DRAIN TIME	40 GPM
TOTAL FLOW RATE SUPPLIED	50 GPM
TOTAL GREASE CAPACITY SUPPLIED	127.6 LBS

PROVIDE A SCHIER MODEL GB-50 GPM FLUSH WITH FLOOR GREASE TRAP OR APPROVED EQUAL. VENT PER LOCAL CODE.

PLUMBING WASTE NOTES

A. SEE PLUMBING SPECIFICATIONS FOR FURTHER REQUIREMENTS.

B. ALL PLUMBING LINES TO BE ROUTED SUCH THAT THEY ARE NOT VISIBLE TO CUSTOMERS EXCEPT WHERE FIRST APPROVED BY STARBUCKS AT EXPOSED CEILING AREAS.

C. REFER TO MANUFACTURER SPECIFICATIONS FOR LOCATION OF CONNECTIONS UNLESS OTHERWISE NOTED.

D. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER CONNECTION TO ALL PLUMBING EQUIPMENT.

E. DIMENSIONS ARE TO FINISH FACE UNLESS OTHERWISE NOTED.

F. REFER TO DETAIL SHEETS FOR PLUMBING FITTINGS LOCATED IN CASEWORK.

G. WHEN BUNDLING SEVERAL INDIRECT WASTE LINES TO DRAIN INTO A FLOOR SINK, A UNISTRUT IS REQUIRED FOR SECURING AND BRACING ALL LINES ABOVE THE DRAIN.

H. FURNISH & INSTALL ALL NEEDED INDIRECT DRAINS PER CODE (NOT ALL SHOWN). INSTALL DRAINS AT 2% SLOPE WHERE POSSIBLE WITHOUT DIPS OR SAGS. ALL INDIRECT DRAINS SHALL RUN SEPARATELY FROM EACH OTHER TO INDIRECT DRAIN RECEPTOR AND SHALL TERMINATE WITH AN AIR GAP PER CODE.

I. FURNISH & INSTALL WALL CLEANOUTS AT ALL SINKS AND AS NEEDED AND PER CODE (NOT ALL SHOWN).

J. INSULATE ICE BIN DRAINAGE PIPES PER THE REQUIREMENTS ON THE PLUMBING SPECIFICATION SHEET.

SHEET NOTES

1. 5/8" DRAIN HOSE FROM NEW / RELOCATED ESPRESSO MACHINE TO INDIRECT DRAIN RISER. SEE DETAIL ON SHEET P-5001.
2. 1" INDIRECT INSULATED DRAIN LINE FROM ICE BIN DROP TO NEW / FLOOR SINK.
3. 1-1/2" INDIRECT DRAIN FROM WATER STATION DRAIN BOARD TO FLOOR SINK.
4. 3" WASTE FROM FLOOR SINK. GENERAL CONTRACTOR MAY NEED TO MODIFY CABINET BASE TO ALLOW ACCESS TO FLOOR SINK.
5. TIE INTO EXISTING BUILDING SANITARY WASTE. VERIFY EXACT LOCATION, INVERTS AND REQUIREMENTS ON SITE.
6. 2" WASTE FROM SINK.
7. 1-1/2" INDIRECT DRAIN TO EXISTING FLOOR SINK. SEE DETAIL ON SHEET P-5001.
8. (2) 1-1/2" INDIRECT DRAIN FROM PITCHER RINSER SINK TO EXISTING FLOOR SINK.
9. MAKE CONNECTION TO EXISTING VENT SYSTEM IN PREMISES. VERIFY EXACT LOCATION, SIZE AND REQUIREMENTS ON SITE.
10. (2) 3/4" INDIRECT DRAIN FROM ICE MACHINE AND BIN TO INDIRECT DRAIN AT FLOOR SINK.
11. ROUTE 1/2" INDIRECT WASTE FROM THE PURGE TUBE FROM THE COMPRESSOR OF THE COLD BREW NITRO SYSTEM TO FLOOR SINK. INSTALL PER MANUFACTURER'S RECOMMENDATION AND STARBUCKS STANDARDS AND GUIDELINES.
12. ROUTE INDIRECT WASTE FROM WATER CHILLER DRAIN TO NEARBY FLOOR SINK SERVING ICE MACHINE OR NEAREST APPROVED RECEPTOR. FIELD VERIFY EXACT LOCATION AND REQUIREMENTS. INSTALL PER LOCAL CODE.
13. ROUTE 2" INDIRECT WASTE FROM DRAIN TRAY & INDIERCT WASTE FROM DRAIN HOSE OF THE WARE RINSER TO FLOOR SINK AS REQUIRED.
14. ROUTE 2" INDIRECT WASTE FROM THE DRAIN TRAY TO FLOOR SINK.
15. PROVIDE AND INSTALL FLUSH WITH FLOOR GREASE TRAP. SEE GREASE TRAP CALCULATION ON THIS SHEET FOR SIZE AND MODEL. VERIFY EXACT LOCATION IN FIELD. PROVIDE A VENTED ACCESSIBLE FLOW CONTROL DEVICE AS REQUIRED BY CODE.
16. 1-1/2" INDIRECT DRAIN FROM DISHWASHER TO FUNNEL OVER EXISTING FLOOR SINK (IF PERMITTED). 1-1/2" TRADE SIZE PIPE MINIMUM REDUCED TO 3/4" FPT CONNECTION.
17. RTU-1 & 2 TO BE REPLACED WITH NEW UNITS IN EXISTING LOCATIONS. SEE SHEET M-1101 FOR MORE INFORMATION. NEW CODNENSTATE DRAINS SHALL BE ROUTED TO ROOF OR OTHER DRAINAGE RECEPTACLE AS REQUIRED.
18. NEW AHU-1 PROVIDE CONDENSATE PIPING AS REQUIRED. ROUTE CONDENSATE DRAIN TO NEAREST APPROVED RECEPTACLE.

STATE OF MAINE
WILLIAM J. ALKEMEYER
13125
LICENSED
PROFESSIONAL ENGINEER
10-24-17

ISSUE FOR CONSTRUCTION 08/23/2017

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STARBUCKS TEMPLATE VERSION i2016.12.23

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146-17

PROJECT NAME:
RENOVATION OF STARBUCKS COFFEE PORTLAND, 1080 FOREST AVE.

PROJECT ADDRESS:
1080 FOREST AVENUE
PORTLAND, ME 04103
CUMBERLAND COUNTY

STORE #:	11917
PROJECT #:	37548-037
ISSUE DATE::	08/23/2017
PROGRAM MANAGER:	J. BOND
DESIGNER:	A. LEE
LEED® AP:	N/A
PRODUCTION DESIGNER:	E. VEGA
CHECKED BY:	SMD

Revision Schedule

Rev	Date	By	Description
1	10/24/14		BUILDING COMMENTS

SHEET TITLE:
PLUMBING WASTE PLAN

SCALE: AS SHOWN

SHEET NUMBER:
P-1102