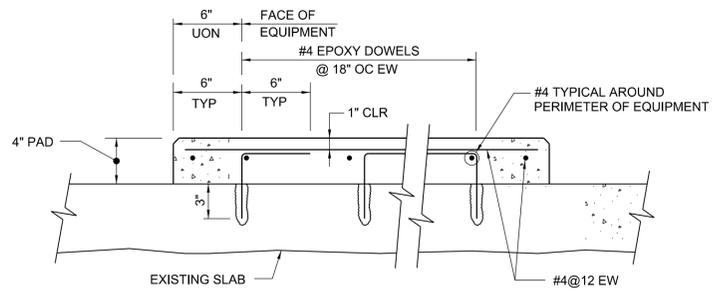
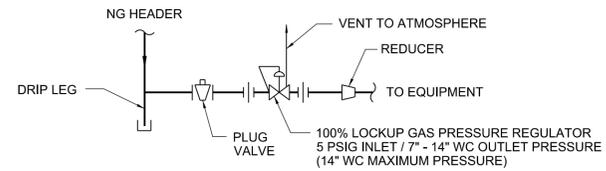


APPLY SIKA ARMATER 110 EPOCEM BETWEEN NEW AND EXISTING CONCRETE FOLLOW ALL MANUFACTURER'S INSTRUCTIONS.

A EXTENDED CONCRETE EQUIPMENT PAD DETAIL
NOT TO SCALE

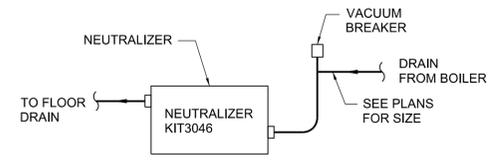


D CONCRETE EQUIPMENT PAD DETAIL
NOT TO SCALE



- NOTES:
1. SEE NATURAL GAS PIPING DIAGRAM ON DWG M-701 FOR PIPE SIZES.
 2. SIZE AND ROUTE REGULATOR VENT PIPING OUTDOORS. SEE PLAN "2" ON DWG M-101.
 3. FIELD VERIFY GAS PRESSURE PRIOR TO INSTALLATION.

B NATURAL GAS CONNECTION DETAIL
NOT TO SCALE



- NOTES:
1. PROVIDE LOCHINVAR NEUTRALIZER KIT3046 OR EQUAL.
 2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

C NEUTRALIZER KIT DETAIL
NOT TO SCALE

BOILER SCHEDULE			
DESIGNATION	B-1	B-2	B-3
SERVICE	BUILDING HEATING SYSTEM	BUILDING HEATING SYSTEM	BUILDING HEATING SYSTEM
TYPE	FIRE TUBE CONDENSING MODULATING BURNER	FIRE TUBE CONDENSING MODULATING BURNER	FIRE TUBE CONDENSING MODULATING BURNER
MANUFACTURER (DESIGN BASED ON)	LOCHINVAR	LOCHINVAR	LOCHINVAR
MODEL NO. (DESIGN BASED ON)	FTX725 (N)	FTX725 (N)	FTX725 (N)
INPUT RATING - MBH	725	725	725
OUTPUT RATING - MBH	705	705	705
FLOW RATE - GPM	71	71	71
PRESSURE DROP - FT H2O	4.9	4.9	4.9
TURNDOWN RATIO	10:1	10:1	10:1
FUEL TYPE	NATURAL GAS	NATURAL GAS	NATURAL GAS
RELIEF VALVE SETPOINT - PSIG	50	50	50
AIR INLET AND VENT SIZE - INCHES	4 / 6	4 / 6	4 / 6
REMARKS:	PROVIDE NEUTRALIZER KIT3046, CONSTANT-SPEED BOILER CIRCULATOR, HIGH / LOW GAS PRESSURE SWITCHES WITH MANUAL RESET, UL APPROVED GAS TRAIN AND 100% LOCKUP PRESSURE REGULATOR.		
NOTE:	THE HEATING WATER BOILER BASIS OF DESIGN IS LOCHINVAR FTX725 FIRETUBE BOILERS. ACCEPTABLE MANUFACTURERS ARE AS FOLLOWS: CLEAVER BROOKS CLEARFIRE-C, AERCO BENCHMARK, AND VISSMANN VITOCROSS. IF ONE OF THE THREE ACCEPTABLE MANUFACTURER'S BOILERS ARE USED, CHANGES TO THE PIPING LAYOUT / SIZES, PIPING SYSTEM ARRANGEMENT AND EQUIPMENT PAD SIZES SHALL BE PROVIDED AS REQUIRED.		

AIR COMPRESSOR SCHEDULE	
DESIGNATION	AC-1
MANUFACTURER	SPEEDAIRE
MODEL NUMBER	35WC46
TYPE	HORIZONTAL RECIPROCATING
AIR DELIVERY @ MAX PRESSURE - CFM	16.4
MAXIMUM WORKING PRESSURE	175
RECEIVER CAPACITY - GAL	80
MOTOR HORSEPOWER	5
ELECTRICAL - VOLTAGE/PHASE	460/3
REMARKS:	

Wiley Wilson
Constant Progress

127 Nationwide Drive, Lynchburg, Virginia 24502-4272
phone 434.947.1901 | fax 434.947.1801 | web wileywilson.com



CITY OF LYNCHBURG
MAIN FILTER PLANT
BOILER REPLACEMENT

LYNCHBURG, VIRGINIA

NO.	REVISION DESCRIPTION	DATE

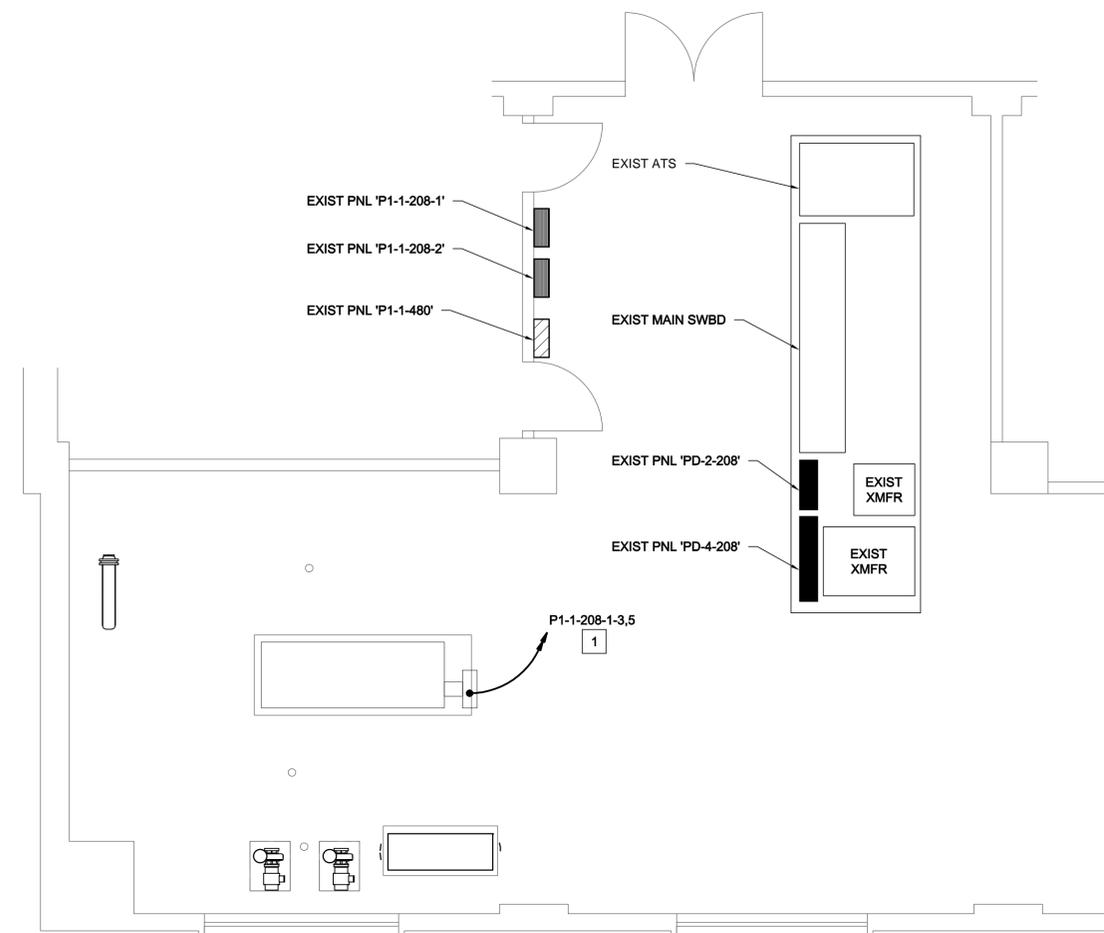
COMM NO: 214146.00
DATE: 3/28/2016
DRAWN: JFC DESIGN: JFC
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SHEET TITLE
SCHEDULE AND DETAILS

SHT. NO. **M-501** REV. NO. **0**

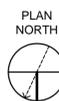
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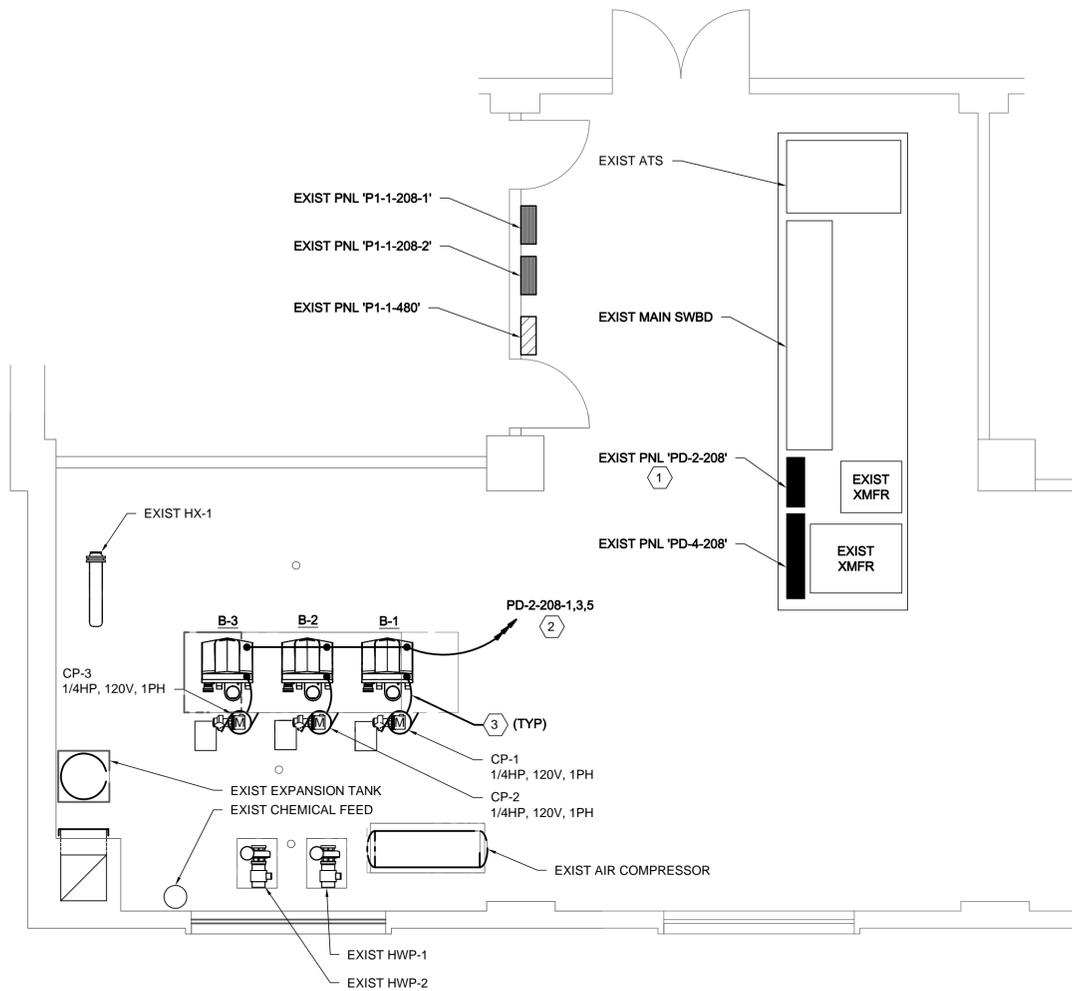


NOTES:

- 1 DISCONNECT EXISTING BOILER BRANCH CIRCUIT AND REMOVE EXISTING CONDUIT AND CONDUCTORS BACK TO PANEL INDICATED. AFTER REMOVAL, LABEL CIRCUIT BREAKER AS SPARE..



1 PARTIAL BOILER ROOM PLAN POWER - DEMOLITION
SCALE: 1/4" = 1'-0"



NOTES:

- 1 PROVIDE THREE, 1-POLE, 20A, SQUARE D, TYPE FH CIRCUIT BREAKERS IN EXISTING PANEL 'PD-2-208' FOR NEW BOILERS B-1, B-2, AND B-3. EXISTING PANEL WAS MANUFACTURED BY SQUARE D, I-LINE TYPE HCN.
- 2 PROVIDE (2) 12 AWG & (1) 12 EGC IN 3/4" CONDUIT FROM EACH CIRCUIT BREAKER INSTALLED IN PANEL 'PD-2-208' TO BOILERS AS INDICATED. PROVIDE INDIVIDUAL NEUTRALS FOR EACH CIRCUIT.
- 3 PROVIDE (2) 12 AWG & (1) 12 EGC IN 3/4" CONDUIT FROM BOILER CONTROL PANEL TO CIRCULATING PUMP AS SHOWN. REFER TO MANUFACTURER'S DOCUMENTATION FOR EXACT CONNECTION POINTS IN BOILER CONTROL PANEL.



2 PARTIAL BOILER ROOM PLAN POWER - NEW WORK
SCALE: 1/4" = 1'-0"



**CITY OF LYNCHBURG
MAIN FILTER PLANT
BOILER REPLACEMENT**

LYNCHBURG, VIRGINIA

MRK.	DATE	REVISION DESCRIPTION

COMM NO: 214146.00	
DATE: 3/28/2016	
DRAWN: TFB	DESIGN: TFB
CHECK: WPM	
SHEET TITLE	
PARTIAL PLANS BOILER ROOM DEMOLITION & NEW WORK POWER	
SHT. NO. E-101	REV. NO. 0