ETR 5" HR FROM UPPER SCHOOL
ETR 3" HR FROM LOWER WEST WING
ETR 2" HR FROM OLD LIBRARY
ETR 5" HR FROM CONVENT
EXISTING/SALVAGED 3-WAY ATC MIXING VALVE (PNEUMATICALLY OPERATED) TYP
ETR BOILER WATER CIRCULATING PUMP AND APPURTENANCES
85 GPM
3" HS/HR TO/FROM DOMESTIC HOT WATER GENERATOR
PRIMARY/SECONDARY DECOUPLER BRIDGE
FROM COMBUSTION SUPPLY AIR FANS
TO COMBUSTION SUPPLY AIR FANS
DRAIN VALVE WITH HOSE END CONN (TYP)
PRIMARY SYSTEM LOOP
1 1/2" NPCW
2"
142 GPM
(0-30 PSI)
P-1
P-2
P-3
P-4
P-5
(30" VAC 30 PSI)
(30" VAC - 30 PSI)
MANUAL AIR VENT (TYP)
PRESSURE RELIEF VALVE (SET AT 60 PSI.) (TYP)
MANUAL FILL (N.C.) (TYP.)
PIPE DISCHARGE OVER FLOOR DRAIN (TYP.)
BOILER-1
BOILER-2
BOILER-3
BOILER-4
BOILER-5
PIPE CROSS WITH BRASS PLUGS (TYP)
LOW WATER CUTOFF ASSEMBLY (FURNISHED BY BOILER MFR)
2" GAS SERVICE (TYP)
DRAIN VALVE, PIPE TO FLOOR DRAIN (TYP).
GAS TRAIN (TYP)
POWERED GAS BURNER (TYP)
3/4" DRAIN VALVE WITH HOSE END CONN AND CAP (TYP)
CONCRETE HOUSEKEEPING PAD (TYP)
GAS VENTS TERMINATE THRU ROOF (TYP)
PRESSURE REDUCING VALVE (SET AT 20 PSI) (FIELD VERIFY)
PRESSURE RELIEF VALVE (SET AT 70 PSI)
PIPE TO DISCHARGE OVER FLOOR DRAIN
EXISTING RELOCATED BACKFLOW PREVENTER ASSEMBLY
ETR 1 1/2" CW
1 1/2" BYPASS
MAKE-UP WATER ASSEMBLY
PIPE TO DISCHARGE OVER FLOOR DRAIN
5" HS TO CONVENT
3" HS TO LOWER WEST WING
2" HS TO OLD LIBRARY
6" HS TO UPPER SCHOOL
FULL SIZE OF EXPANSION TANK CONNECTION (TYP)
ET-1 (20 PSI INITIAL CHARGE)
ET-2 (20 PSI INITIAL CHARGE)
FLEX. CONN. (TYP)
TBD GPM
(30" VAC-60 PSI) (TYP)
BALANCING VALVE W/MEMORY STOP (TYP)
CHECK VALVE (TYP)
(0-100 PSI) (TYP)
27 GPM
45 GPM
325 GPM
325 GPM
P-6 (UPPER SCHOOL NO. 11 & 22)
4" CONCRETE PAD (TYP)
4" CONCRETE PAD (TYP)
3/4" DRAIN VALVE WITH HOSE END CONN AND CAP (TYP)
SUCTION DIFFUSER (TYP.)
SUPPORT LEG (TYP.)
P-11 (CONVENT; STAND-BY)
CHEMICAL SHOT FEEDER SEE DIAGRAM 2/M5.2
3/4" DRAIN VALVE WITH HOSE END CONN AND CAP (TYP)
P-10 (CONVENT)
P-9 (LOWER WEST WING NO. 19)
P-8 (OLD LIBRARY NO. 21)
P-7 (UPPER SCHOOL NO. 11 & & 22; STAND-BY)

NOTE:
ADJUST AIR PRESSURE FOR EXPANSION TANK FOR ACTUAL FIELD PRESSURE.

DIAGRAM 1/M5.1
HEATING WATER SYSTEM
NOT TO SCALE

95% CD
NOT FOR CONSTRUCTION

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April 06, 2010 6:04 p.m.
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BOILER REPLACEMENT FOR NOTRE DAME PREPARATORY SCHOOL
815 HAMPTON LANE
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Sym.	REVISIONS	Date

Drawn	TGS
Designed	TGS
Checked	SJH
Approved	SJH
Scale	
Comm No	5806-09
Date	4/7/2010

Drawing Title
DIAGRAMS

Sheet No:
M5.1