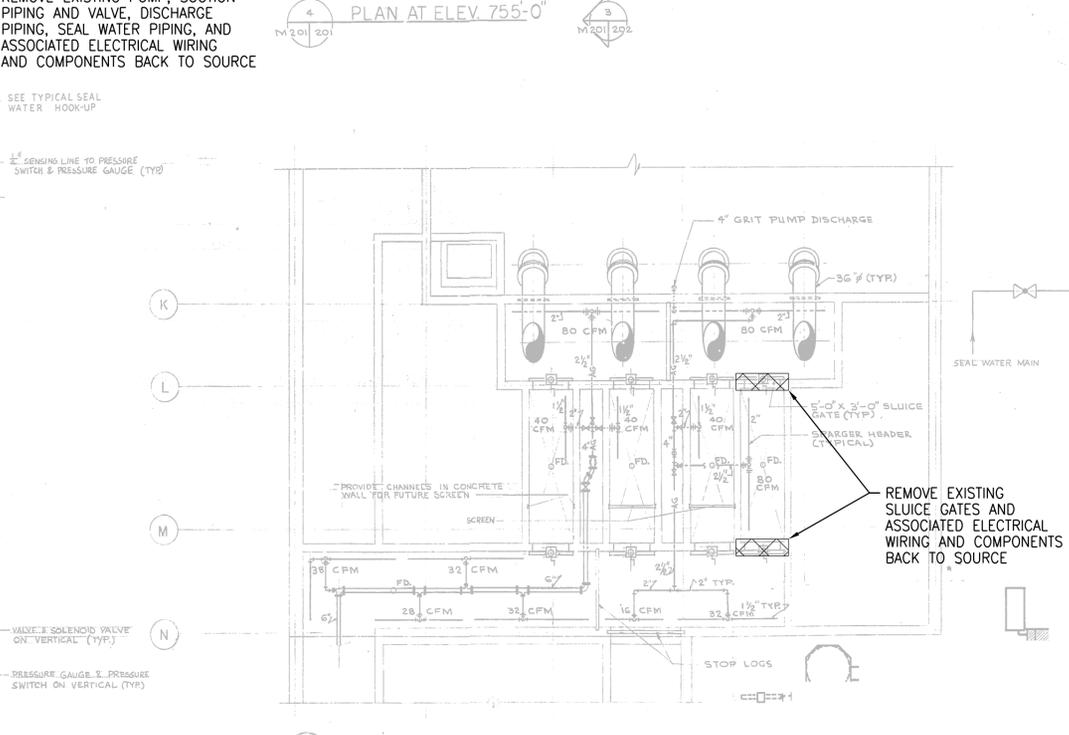
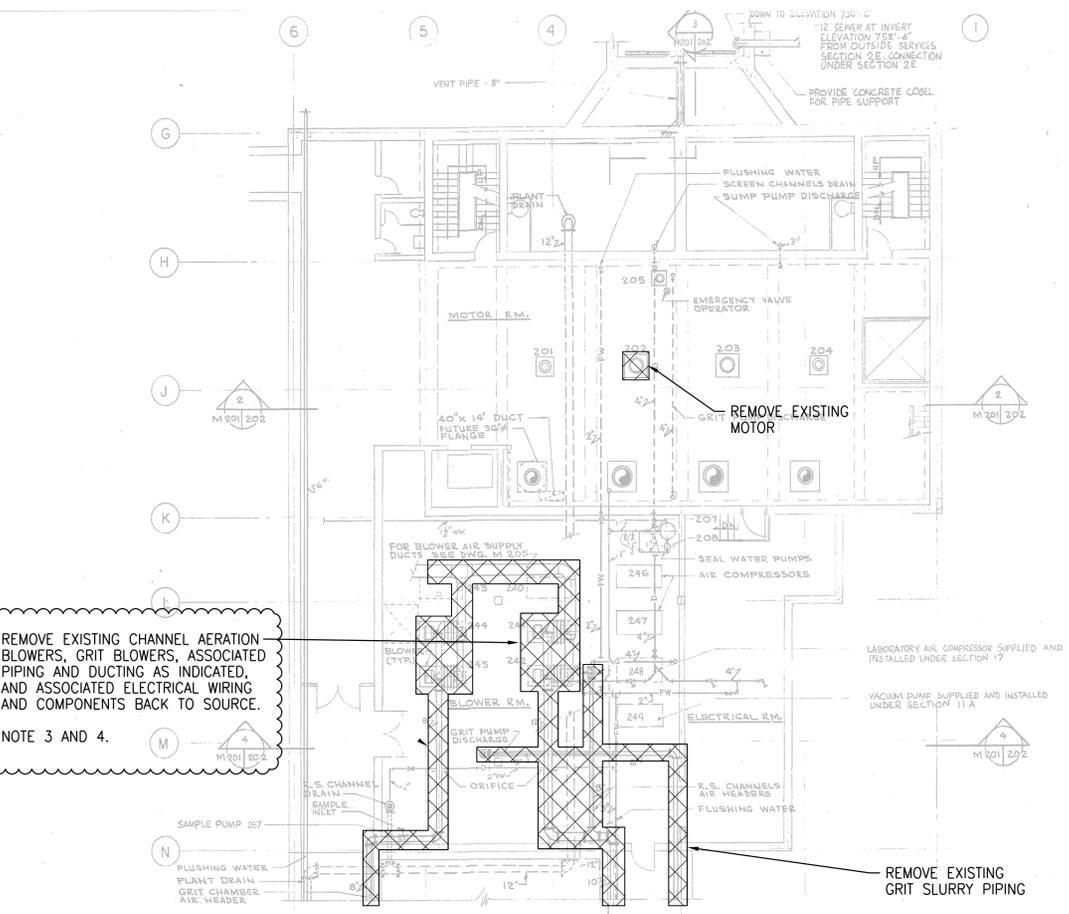
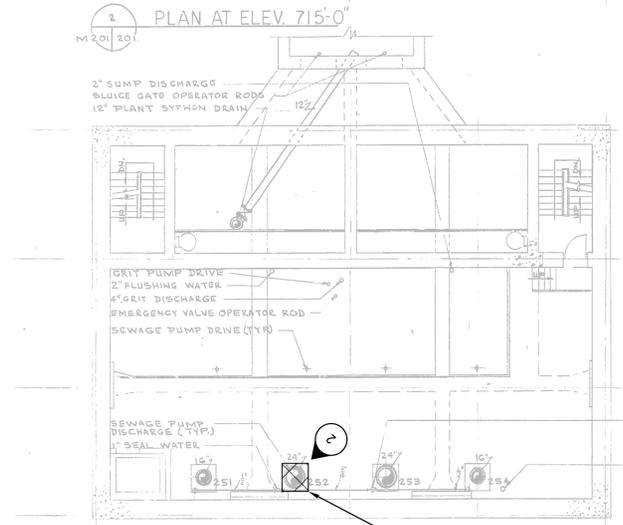
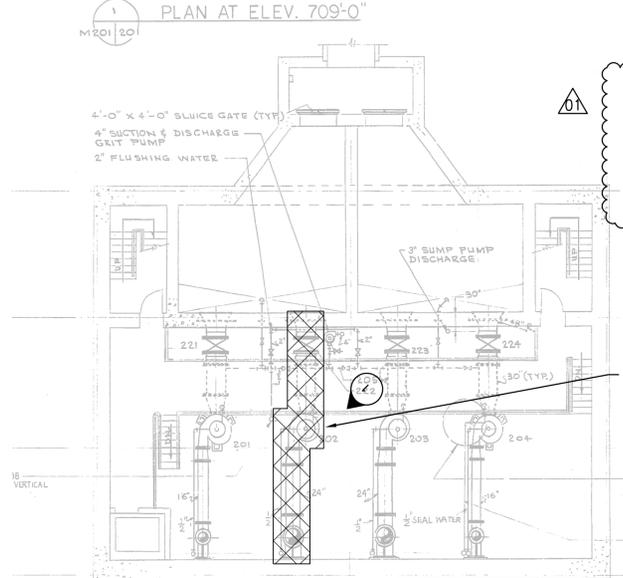
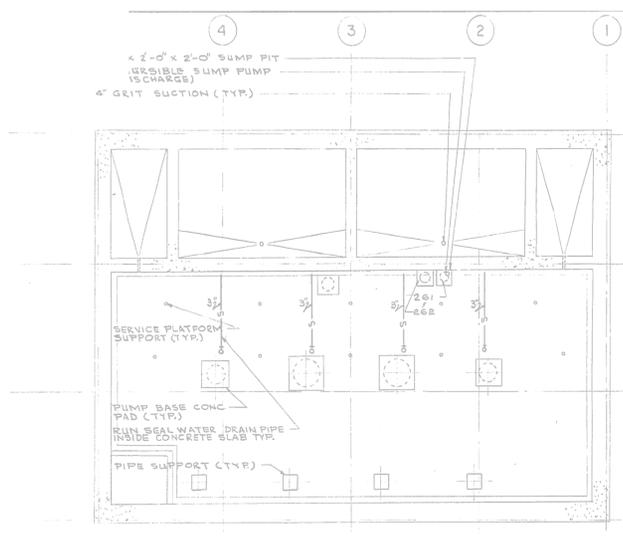


A1 SIZE - 594mm x 841mm



PROCESS PIPING AND SYMBOL LEGEND

PS	PRIMARY SLUDGE
AIR	PLANT INSTRUMENT AIR
AG	CHANNEL AGITATION
IA	INSTRUMENT AIR
GA	GRIT AIR
O ₂	OXYGEN
PW	POTABLE WATER
SCUM	SCUM
D	DRAIN
FW	FLUSHING WATER
RAS	RETURN ACTIVATED SLUDGE
WAS	WASTE ACTIVATED SLUDGE
SD	SLUDGE DISCHARGE
RS	RECIRCULATED SCUM
GR	GRIT
CL ₂	CHLORINE GAS & LIQUID
CL	CHLORINE SOLUTION
DC	DRESSER COUPLING
VC	VICTAULIC COUPLING
HB	INTERIOR HOSE BIBB
HBE	EXTERIOR HOSE BIBB
R	REDUCER
CV	CHECK VALVE
GV	GATE VALVE
BV	BUTTERFLY VALVE
PC	PNEUMATIC CYLINDER OPERATED VALVE
PCV	MOTORIZED VALVE
PCVW	PNEUMATIC CYLINDER OPERATED VALVE WITH POSITIONER
PV	PLUG VALVE
T	THERMOMETER
PG	PRESSURE GAUGE
PSW	PRESSURE SWITCH
TSW	TEMPERATURE SWITCH
STR	STRAINER
PRV	PRESSURE RELIEF VALVE
PRRV	PRESSURE REGULATING VALVE
TRRV	TEMPERATURE REGULATING VALVE
SV	SOLENOID VALVE
DOV	DIAPHRAGM OPERATED VALVE
FH	FIRE HYDRANT
GV	GLOBE VALVE
DV	DIAPHRAGM VALVE
NV	NEEDLE VALVE
RS	RAW SEWAGE



1 PHOTO
NTS

REMOVE EXISTING CHANNEL AERATION BLOWERS, GRIT BLOWERS, ASSOCIATED PIPING AND DUCTING AS INDICATED, AND ASSOCIATED ELECTRICAL WIRING AND COMPONENTS BACK TO SOURCE.
NOTE 3 AND 4.

REMOVE EXISTING PUMP, SUCTION PIPING AND VALVE, DISCHARGE PIPING, SEAL WATER PIPING, AND ASSOCIATED ELECTRICAL WIRING AND COMPONENTS BACK TO SOURCE.

REMOVE EXISTING GRIT SLURRY PIPING

REMOVE EXISTING PUMP, DRIVE SHAFTING, AND SAFETY CAGE

REMOVE EXISTING 600# PIPING AND FLOW METER



2 PHOTO
NTS

REMOVE EXISTING SEAL WATER PIPING FOR PUMP P-G102 AND PROVIDE NEW SEAL WATER PIPING IN SAME LOCATION

SALVAGE AND RE-INSTALL EXISTING SAMPLER AND REFRIGERATOR ON NEW 750-RS-CS DISCHARGE PIPING FOR PUMP P-G102

REMOVE EXISTING SLUDGE GATES AND ASSOCIATED ELECTRICAL WIRING AND COMPONENTS BACK TO SOURCE

TYPICAL SEAL WATER CONNECTION

NOTES:

- FOR NEW CONSTRUCTION SEE MECHANICAL HEADWORKS DRAWINGS.
- REFER TO GENERAL DEMOLITION NOTES DRAWING 1-0102-DAAA-AD01.
- CONFIRMED ASBESTOS CONTAINING MATERIAL ON HEATING WATER RETURN FITTINGS INSULATION. REFER TO ASBESTOS ABATEMENT SPECIFICATION FOR ABATEMENT PROCEDURES.
- CONFIRMED ASBESTOS CONTAINING MATERIAL ON DUCTWORK INSULATION. REFER TO ASBESTOS ABATEMENT SPECIFICATION FOR ABATEMENT PROCEDURES.

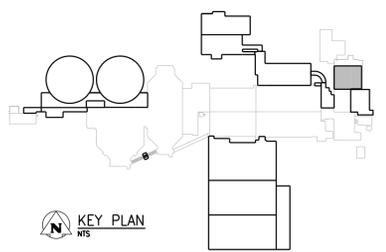
SEALING ARCHITECT OR ENGINEER ACCEPTS RESPONSIBILITY ONLY FOR AREAS IDENTIFIED BY CLOUDING ON THIS DRAWING.

NOTE: THIS DRAWING SUPERSEDES DRAWING SEP-39

THE CITY OF WINNIPEG
Winnipeg WATER AND WASTE DEPARTMENT

SOUTH END WATER POLLUTION CONTROL CENTRE
SEWPCC UPGRADING/EXPANSION PROJECT
HEADWORKS - PUMP AND SCREEN BUILDING
PROCESS EQUIPMENT AND PIPING
PLANS

CITY DRAWING NUMBER 1-0102-PGAD-GD50 SHEET REV. SIZE 01 A1



PLANS
NTS

AS
DATE

APEGM
Certificate of Authorization
CH2M HILL Canada Ltd.
No. 1441

NO.	REVISIONS	DATE	DESIGN	CHECK
01	ISSUED FOR ADDENDUM 7 - 976-2016	2017/07/20	JBC	
00	ISSUED FOR CONSTRUCTION - 976-2016	2017/04/05	B.C.	J.C.

CH2MHILL	
DESIGNED BY: B. EDGAR	CHECKED BY: F. ABSI
DRAWN BY: B. COOPER	APPROVED BY: H.T. FREIHAMMER
SCALE: NTS	ISSUED FOR CONSTRUCTION BY: J. SHUMKA
DATE: 2017/04/05	DATE: 2017/04/05
CONSULTANT NO.: 474248	

ENGINEER'S SEAL
24 July 2017
F. J. ABSI
Member
36875
REGISTERED PROFESSIONAL ENGINEER