

- ELECTRICAL NOTES:**
- ① EXISTING EQUIPMENT.
 - ② FURNISH AND INSTALL INCANDESCENT INSPECTION LIGHT FIXTURE. SEE DETAIL 1/E-5. FIXTURE SHALL BE RATED FOR CLASS 1, DIVISION 1, GROUP D (EXPLOSION PROOF) AREA. HUBBELL #LEM115A30 OR CROUSE-HINDS EVA SERIES.
 - ③ FURNISH AND INSTALL MOMENTARY CONTACT LIGHT SWITCH.
 - ④ FURNISH AND INSTALL DEAD FRONT INTERLOCKED CIRCUIT BREAKING RECEPTACLE.
 - ⑤ RE-USE EXISTING ROOF PENETRATION FOR INSPECTION LIGHT CONDUIT.
 - ⑥ CLASS 1, DIVISION 1, GROUP D AREA EXISTS 10 FEET VERTICALLY ABOVE THE HIGHEST POINT OF DIGESTER COVER AND EXTENDS 5 FEET HORIZONTALLY BEYOND DIGESTER WALLS. CLASS 1, DIVISION 2, GROUP D AREA EXISTS 15 FEET VERTICALLY ABOVE CLASS 1, DIVISION 1 AREA AND EXTENDS 5 FEET HORIZONTALLY BEYOND THE CLASS 1 DIVISION 1 AREA AROUND TANK WALLS.
 - ⑦ BOND DIGESTER COVER TO 3/4" X 10' GROUND ROD IN GROUND WELL WITH #2/0 BARE COPPER (MINIMUM OF 2 PLACES).
 - ⑧ REMOVE EXISTING CIRCUITS FROM LP AND EXTEND TO LP-A. JUNCTION BOXES INSTALLED IN CLASSIFIED AREAS SHALL BE NEMA 7.
 - ⑨ EXISTING MOTOR. REMOVE FEEDER FROM PREVIOUS MOTOR CONTROL CENTER AND EXTEND FEEDER TO NEW MOTOR CONTROL CENTER LOCATION. PROVIDE JUNCTION BOX AND SPLICE NEW CONDUCTORS TO EXISTING. FIELD VERIFY THE EXACT LOCATION PRIOR TO INSTALLATION. PROVIDE EXPLOSION PROOF JUNCTION BOX AND CONDUIT SEAL-OFFS IN CLASSIFIED AREAS.
 - ⑩ MOVE SLUDGE PUMP TIMERS FROM MCC-3 TO MCC-3A AND CONNECT TO NEW MOTOR STARTER CONTROL CIRCUITS. REMOVE MOTOR STARTER UNITS FROM MCC-3 AND DELIVER TO OWNER. REMOVE PP-1 AND DELIVER TO OWNER FOR FUTURE USE. REMOVE AND DISPOSE OF MCC-3 STRUCTURE.

FEEDER SCHEDULE

ITEM	CONDUIT SIZE	CONDUCTOR SIZE	SETS	NOTES
①	3/4"C.	3 #12 1 #12 GND.	1	
②	1/2"C.	2 #12 1 #12 GND.	1	
③	3/4"C.	4 #10 1 #10 GND.	1	
④	3"C.	4 #4/0 1 #4 GND.	1	

EQUIPMENT SCHEDULE

ITEM	LOAD	NEW OR EXISTING MOTOR (9)	HP	MCC DEVICES
A	BOILER SUPPLY FAN	EXISTING	1/2	FVNR-1
B	WATER CIRCULATION PUMP	EXISTING	1/3	FVNR-1
C	SLUDGE RECIRCULATION HEAT PUMP #1	EXISTING	5	FVNR-1
D	SLUDGE RECIRCULATION HEAT PUMP #2	NEW	5	FVNR-1
E	MAKE UP AIR UNIT #4	EXISTING	3/4	15A/3P./C.B.
F	MAKE UP AIR UNIT #3	EXISTING	3/4	15A/3P./C.B.
G	EXHAUST FAN #4	EXISTING	1/3	15A/3P./C.B.

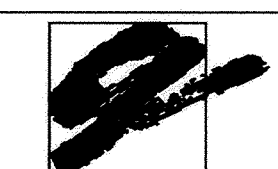
1 ELECTRICAL PLAN
SCALE: 1/4"=1'-0"

RECORD DRAWING

THIS DRAWING HAS BEEN REVISED TO REPRESENT THE RECORDS OF CONSTRUCTION AS BASED UPON BEST RECORDED INFORMATION AT THE TIME OF COMPLETION OF WORK SET FORTH ON THE DRAWING.

HOWARD R. GREEN COMPANY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY HAVE BEEN INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

DATE: MAY 2005


 Howard R. Green Company

DESIGNED BY: RJT/WLM DRAWN BY: WLM
 APPROVED BY: RJT JOB NUMBER 822550J
 CAD DATE: August 30, 2005 8:39:55 a.m.
 CAD FILE: 822550J\As-Built\Dwgs\E-E-1.DWG (DHORNER)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE _____ DATE _____
 PRINTED NAME: ROBERT J. THAYER LIC. NO. 16272

NO.	DATE	BY	REVISION DESCRIPTION
1	05/24/05	DRH	RECORD DRAWINGS


 Howard R. Green Company

WWTP PRIMARY DIGESTER IMPROVEMENTS
 CITY OF ELK RIVER
 ELK RIVER, MINNESOTA 2004

ELECTRICAL
**PRIMARY DIGESTER/DIGESTER BUILDING
 COVER/UPPER LEVEL PLAN**

SHEET NO.
E-1