



PURCHASING DEPARTMENT
1772 County Services Parkway
Marietta, Georgia 30008-4012
(770) 528-8400/FAX (770) 528-1154

Mark Kohntopp
INTERIM DIRECTOR

ADDENDUM No. 1

**Sealed Bid # 11-5577
HVAC IMPROVEMENTS FOR R.L. SUTTON WRF
COBB COUNTY WATER SYSTEM**

DATE: MAY 26, 2011

Page 1 of 17

The following addendum hereby amends and/or modifies the Proposal Documents and specifications as originally issued for this project. All proposers are subject to the provisions of this Addendum.

Proposers shall acknowledge receipt of this addendum.

Include this original form inside your proposal package.

This Addendum consists of:

- **Minutes of the May 10, 2011 Prebid Meeting**
- **Questions submitted in writing to date**
- **Mechanical drawings – Attachment A**
- **Prebid Meeting Attendee List – Attachment B**

All bids must be received before 12:00 (noon) by the Bid Opening date. Bids shall be delivered to Cobb County Purchasing Department, 1772 County Services Parkway, Marietta, GA 30008.

Electronic / faxed bid response will not be considered.

I acknowledge that I have received Addendum No. 1

**Sealed Bid # 11-5577
HVAC IMPROVEMENTS FOR R.L. SUTTON WRF**

Company Name

Signature

Date Sent to Purchasing

Please Print Name

Please sign, date, and return this form ONLY to:
Cobb County Purchasing Department
Fax #: 770-528-1154
E-Mail: purchasing@cobbcounty.org

Please note: The deadline for questions is: May 17, 2011 by 5:00 pm
Any questions received after this deadline will not be considered.

ADDENDUM No. #1

SEALED BID # 11-5577
HVAC IMPROVEMENTS FOR R.L. SUTTON WRF
COBB COUNTY WATER SYSTEM

Minutes of Pre-Proposal Conference May 10, 2011
Sealed Bid 11-5577
R.L. Sutton HVAC Improvement Project

Bid Opening Date May 26, 2011

1. Stephanie Brice introduced herself and opened meeting. Bids due 5/26 by 12:00 noon. Late bids cannot be accepted. Bidding company should submit original and one (1) copy. Bid bond is required. The deadline for questions is May 17, 2011 at 5:00pm. Questions can be emailed to Purchasing@cobbcounty.org or faxed to 770-528-1154. Bid opening will be broadcast on TV 23 and will be available on the Cobb County Web Page at www.cobbcounty.org.
2. Ms. Stephanie Brice of Purchasing introduced the project and reviewed the requirements for bid submissions as described above. Ms. Brice introduced Mr. Krause, Sr. Project Manager for the Water Department as the central contact person for the project.
3. Mr. Krause introduced the Water Department personnel in attendance relative to the nature of their expertise, described the project in general terms and asked for any questions relative to the bid package that had been provided the bidders.
4. Questions are to be submitted in writing to the Purchasing Department not to individuals in the Water Department. Answers will be available to all participants in attendance in the form of written addenda.
6. With no further questions the bidders accompanied Cobb County Water personnel on a guided tour of the portions of the facility involved in the Sealed Bid.
7. The meeting and tour adjourned at approximately 10:50 am.

ADDENDUM No. #1

SEALED BID # 11-5577
HVAC IMPROVEMENTS FOR R.L. SUTTON WRF
COBB COUNTY WATER SYSTEM

Questions presented during the meeting:

Question 1: Is there provision for or against proprietary items in the spec?
Answer 1: *This is an open spec. as far as brands are concerned however the performance requirements are clearly spelled out. There are several components that may be limited to a very few options by certain specifications such as physical dimensions.*

Question 2: Are each of the subcontractors required to submit to the Waiver of Subrogation as described on Page 69 of the Sealed Bid #11-5577 package.
Answer 2: *Yes, the Waiver of Subrogation is part of the terms and conditions and cannot be waived.*

Questions Received in Writing to Date

Question 3: Was the prebid meeting that was held on May 10th for this bid mandatory?
Response 3: *No. The meeting was recommended but not mandatory.*

Question 4: Are there As-Built drawings of the structures involved in the HVAC Improvement bid request?
Response 4: *There are eleven (11) .PDF files containing drawings pertinent to Sealed Bid #11-5577 attached to this addendum. See Attachment A*

Question 5: What is the length of time allowed for this contract?
Response 5: *Time is of the essence. We do not have a specific deadline date. However, since this HVAC system affects the water treatment process, not just personal comfort, it is critical that it be completed as soon as possible to avoid the temperature extremes experienced in July and August.*

PLAN SYMBOLS

	HOME RUN TO DESIGNATED EQUIPMENT. NUMBER OF ARROWS INDICATE NUMBER OF CIRCUITS, HASH MARKS INDICATE NUMBER OF #12 AWG. CONDUCTORS. NO HASH MARKS INDICATE 2#12 CONDUCTORS. UNLESS OTHERWISE NOTED.
	CONDUIT CONCEALED IN WALL, IN SLAB ABOVE, OR ABOVE CEILING.
	CONDUIT CONCEALED IN OR BELOW FLOOR OR UNDERGROUND.
	CONDUIT RUN EXPOSED. RUN PARALLEL OR PERPENDICULAR TO STRUCTURE OR WALL.
	CONCRETE ENCASED DUCTBANK.
	CEILING MOUNTED LIGHTING FIXTURE, UPPER CASE LETTER INDICATES TYPE (TYPICAL), LOWER CASE LETTER INDICATES SWITCH DESIGNATION (TYPICAL).
	WALL MOUNTED LIGHTING FIXTURE.
	FLUORESCENT LIGHTING FIXTURE, CEILING MOUNTED. UPPERCASE LETTER INDICATES TYPE (TYPICAL). LOWER CASE LETTER INDICATES SWITCH DESIGNATION (TYPICAL).
	FLUORESCENT STRIP FIXTURE.
	EXTERIOR LUMINARE AND MOUNTING STANDARD.
	EMERGENCY BATTERY PACK LIGHTING FIXTURE.
	CEILING OR WALL MOUNTED EXIT LIGHT FIXTURE WITH BATTERY PACK. PROVIDE ARROWS AS REQUIRED.
	EXIT LIGHT FIXTURES WITHOUT BATTERY PACK.
	60A, 480V, 3ø, 4W WALL MOUNTED RECEPTACLE, WEATHER PROOF W/ GASKETED COVER, 36" ABOVE FINISHED FLOOR.
	JUNCTION BOX PER N.E.C., FLUSH MOUNTED UNLESS INDICATED OTHERWISE.
	DRY TYPE TRANSFORMER. NO. INDICATES KVA RATING.
	20A, 125V, 3W DUPLEX RECEPTACLE IN FLUSH OUTLET BOX, 18" ABOVE FINISHED FLOOR.
	20A, 125V, 3W "HOSPITAL GRADE" DUPLEX RECEPTACLE WITH ISOLATED GROUND CONNECTION.
	20A, 125V, 3W DUPLEX RECEPTACLE, SURFACE MOUNTED.
	20A, 250V, 1ø, 3W SINGLE RECEPTACLE IN FLUSH OUTLET BOX, 18" ABOVE FINISHED FLOOR.
	50A, 250V, 1ø, 3W SINGLE RECEPTACLE IN FLUSH OUTLET BOX, 18" ABOVE FINISHED FLOOR.
	SINGLE POLE SWITCH IN FLUSH OUTLET BOX, 48" ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED (TYPICAL).
	SINGLE POLE SWITCH, SURFACE MOUNTED.
	THREE-WAY SWITCH IN FLUSH OUTLET BOX.
	FOUR-WAY SWITCH IN FLUSH OUTLET BOX.
	2000 W INCANDESCENT DIMMING SWITCH IN FLUSH OUTLET BOX, 48" ABOVE FINISHED FLOOR.
	NON-FUSIBLE DISCONNECT SWITCH, 30A, 3P UNLESS OTHERWISE INDICATED ON SINGLE LINE DIAGRAMS.
	NON-FUSIBLE DISCONNECT SWITCH, 30A, 3P UNLESS OTHERWISE INDICATED, WITH REMOTE CONTROL STATION AS REQUIRED BY ELEMENTARY DIAGRAMS OR SPECS.
	ELECTRIC A.C. MOTOR, NO. INDICATES HORSEPOWER.
	ELECTRIC D.C. MOTOR, NO. INDICATES HORSEPOWER.
	MOTORIZED VALVE.
	COMBINATION MAGNETIC MOTOR STARTER.
	VARIABLE FREQUENCY DRIVE.
	HUMIDISTAT.
	MOTOR OPERATOR.
	THERMOSTAT.
	FLUSH OUTLET BOX AND TELEPHONE COVER PLATE 48" ABOVE FINISHED FLOOR.
	FLUSH OUTLET BOX AND COVER PLATE SUITABLE FOR COMPUTER DEVICE CONNECTION.
	CEILING MOUNTED SMOKE DETECTOR.
	DUCT MOUNTED SMOKE DETECTOR.
	FIRE ALARM MANUAL PULL STATION IN FLUSH OUTLET BOX, 48" ABOVE FINISHED FLOOR.
	FIRE ALARM HORN IN FLUSH OUTLET BOX, 12" BELOW CEILING.
	NON-FUSIBLE DISCONNECT SWITCH, 30A, 3P UNLESS OTHERWISE INDICATED ON SINGLE LINE DIAGRAMS.

PLAN SYMBOLS (CONTINUED)

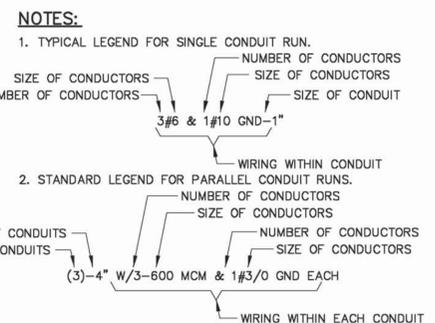
	FLOW SWITCH
	VALVE CONTROL PANEL
	CONTROL PANEL
	EMERGENCY STOP SWITCH
	HAND/OFF/REMOTE SELECTOR SWITCH
	OPEN/HOLD/CLOSE SELECTOR SWITCH
	LOCAL CONTROL STATION
	LIMIT SWITCH
	SPEED SWITCH
	SPEED TRANSMITTER (TACHOMETER)
	PRESSURE SWITCH
	TORQUE SWITCH
	ZERO SPEED SWITCH OR POSITION SWITCH
	SOLENOID VALVE
	LIQUID LEVEL SWITCH
	LEVEL SWITCH LOW
	LEVEL SWITCH HIGH
	VIBRATION SWITCH
	FLOW INDICATING TRANSMITTER
	LEVEL INDICATING TRANSMITTER
	EMERGENCY EYEWASH/SHOWER

SINGLE LINE DIAGRAM SYMBOLS

	VOLTMETER
	AMMETER
	THREE PHASE VOLT SWITCH
	THREE PHASE AMP SWITCH
	GROUND FAULT INTERRUPTER
	WATT HOUR METER
	FUSE
	CAPACITOR
	DRAW-OUT CIRCUIT BREAKER
	MOLDED CASE CIRCUIT BREAKER
	MOTOR STARTER
	ELECTRIC A.C. MOTOR, NO. INDICATES HORSEPOWER.
	ELECTRIC D.C. MOTOR, NO. INDICATES HORSEPOWER.
	SERVICE OR EQUIPMENT GROUND.
	NON-FUSIBLE DISCONNECT SWITCH, 30A, 3P UNLESS OTHERWISE INDICATED.
	LIGHTING PANELBOARD
	POWER PANELBOARD
	KIRK KEY INTERLOCK
	CURRENT TRANSFORMERS
	ZERO SEQUENCE TRANSFORMER
	POTENTIAL TRANSFORMERS
	MANUAL OR AUTOMATIC TRANSFER SWITCH
	LIGHTNING ARRESTER & SURGE CAPACITOR

CONTROL DIAGRAM SYMBOLS

	NORMALLY OPEN CONTACT
	NORMALLY CLOSED CONTACT
	LIMIT SWITCH, NORMALLY OPEN
	LIMIT SWITCH, NORMALLY CLOSED
	PRESSURE SWITCH, NORMALLY OPEN
	PRESSURE SWITCH, NORMALLY CLOSED
	FLOAT SWITCH, NORMALLY OPEN
	FLOAT SWITCH, NORMALLY CLOSED
	FLOW SWITCH, NORMALLY OPEN
	FLOW SWITCH, NORMALLY CLOSED
	TEMPERATURE SWITCH, NORMALLY OPEN
	TEMPERATURE SWITCH, NORMALLY CLOSED
	NORMALLY OPEN, TIMED TO CLOSE CONTACT
	NORMALLY CLOSED, TIMED TO OPEN CONTACT
	NORMALLY CLOSED, TIMED TO CLOSE CONTACT
	NORMALLY OPEN, TIMED TO OPEN CONTACT
	LIMIT SWITCH
	TORQUE SWITCH
	PRESSURE SWITCH
	ZERO SPEED SWITCH
	SOLENOID VALVE
	LIQUID LEVEL SWITCH
	VIBRATION SWITCH
	ALARM RELAY
	ALARM TIMER
	CONTROL RELAY
	MOTOR STARTER
	TIMING RELAY
	ALARM INDICATING LIGHT
	RUN INDICATING LIGHT
	MOMENTARY CONTACT PUSHBUTTON
	MOMENTARY BREAK PUSHBUTTON OR RESET
	KEYED SWITCH
	MAINTAINED CONTACT ON-OFF SWITCH
	START/STOP (S/S) CONTROL SWITCH MAINTAINED CONTACT
	THREE POSITION MAINTAINED CONTACT SELECTOR SWITCH
	FUSE
	MOLDED CASE CIRCUIT BREAKER
	CONTROL POWER TRANSFORMER
	REMOTE TERMINAL BLOCK POINT



ABBREVIATIONS

A	AMPERES	TC	TRAY CABLE
AC	ALTERNATING CURRENT	TR	TRANSFORMER
ACCU	AIR COOLED CONDENSING UNIT	TRD	TRIAD
AMP	AMP FRAME	TTC	TELEPHONE TERMINAL CABINET
AFF	ABOVE FINISHED FLOOR	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
AFG	ABOVE FINISHED GRADE	TYP	TYPICAL
AHU	AIR HANDLING UNIT	UG	UNDERGROUND
AIC	AMPERE INTERRUPTING CAPACITY	UPS	UNINTERRUPTIBLE POWER SUPPLY
AT	AMP TRIP	US	UNIT SUBSTATION
ATS	AUTOMATIC TRANSFER SWITCH	UV	ULTRAVIOLET
BKR	BREAKER	V	VOLT
BLDG	BUILDING	VCP	VALVE CONTROL PANEL
CIR	CIRCUIT	VFD	VARIABLE FREQUENCY DRIVE
CLB	CURRENT LIMITING BREAKER	VMP	VIBRATION MONITORING PANEL
CONT	CONTROL	VVT	VARIABLE VOLUME TERMINAL
CL	CONNECTED LOAD	W	WIRE, WATT, WITH
CU	COPPER	WP	WEATHERPROOF
CWP	COLD WATER PIPE		
CP	CONTROL PANEL		
DIA	DIAMETER		
ELEC	ELECTRICAL		
ELR	EMERGENCY LOCK-OUT RELAY		
EM	EMERGENCY		
ENCL	ENCLOSURE		
EP	EXPLOSION PROOF		
ES	EMERGENCY STOP PUSH BUTTON		
ESB	ENERGY SAVING BALLAST		
EUH	ELECTRIC UNIT HEATER		
EWH	ELECTRIC WATER HEATER		
EXIST	EXISTING		
FAAP	FIRE ALARM ANNUNCIATOR PANEL		
FACP	FIRE ALARM CONTROL PANEL		
FOEH	FIBER OPTIC ETHERNET HUB		
GFCI	GROUND FAULT CIRCUIT INTERRUPTER		
GND	GROUND		
HOA	HAND-OFF-AUTOMATIC		
HOR	HAND-OFF-REMOTE		
HORC	HAND-OFF-REMOTE-COMPUTER		
HP	HORSEPOWER		
HPS	HIGH PRESSURE SODIUM		
INSTR	INSTRUMENTATION		
KVA	KILOVOLT-AMPERES		
KW	KILOWATT		
LCS	LOCAL CONTROL STATION		
LDR	LOAD DUMP RELAY		
LTG	LIGHTING		
MAX	MAXIMUM		
MB	MAIN BREAKER		
MCC	MOTOR CONTROL CENTER		
MCP	MOTOR CIRCUIT PROTECTOR		
MFR	MANUFACTURER		
MH	METAL HALIDE, MANHOLE		
MIN	MINIMUM		
MLO	MAIN LUGS ONLY		
MOD'S	MOTOR OPERATED DAMPERS		
MSH	MOTOR SPACE HEATER		
MTD	MOUNTED		
NC	NORMALLY CLOSED		
NEC	NATIONAL ELECTRICAL CODE		
NEUT	NEUTRAL		
NO	NORMALLY OPEN		
NTS	NOT TO SCALE		
OC	ON CENTER		
OH	OVERHEAD		
OHC	OPEN/HOLD/CLOSE		
OLCP	OUTSIDE LIGHTING CONTROL PANEL		
OL'S	OVERLOADS		
OMI	OPERATOR MACHINE INTERFACE		
P	POLE		
PB	PULL BOX		
PC	PHOTOELECTRIC CONTROL		
PCP	PUMP CONTROL PANEL		
PC/TC	PHOTOELECTRIC CONTROL/TIME CLOCK		
PFCC	POWER FACTOR CORRECTION CAPACITOR		
PLC	PROGRAMMABLE LOGIC CONTROLLER		
PNL	PANEL		
PPS	PUMP PUSH-BUTTON STATION		
PR	PAIR		
QTY	QUANTITY		
RECPT	RECEPTACLE		
RGS	RIGID GALVANNEE RIBBED CONDUIT		
RS	RAPID RESPONSE		
RTD	RESISTANCE TEMPERATURE DETECTOR		
RVAT	REDUCED VOLTAGE AUTOMATIC TRANSFORMER		
S/S	START/STOP		
SH	SHIELD		
SS	STAINLESS STEEL		
SW	SWITCH		
SWGR	SWITCHGEAR		

GENERAL NOTE
THIS IS A STANDARD LEGEND. SOME SYMBOLS AND ABBREVIATIONS MAY NOT APPEAR ON THE DRAWINGS.

RECORD DRAWING
THIS RECORD DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE ENGINEER HAS NOT VERIFIED THE ACCURACY OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT.
Date: _____
CDM

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DESIGNED BY: N. AYAD	
DRAWN BY: R. CARTER	
SHEET CHK'D BY: W. NELSON	
CROSS CHK'D BY: P. LEFAVE	
APPROVED BY: W. NELSON	
DATE: JANUARY 2001	

07/06	MJC	RHC	RECORD DRAWINGS
5/01	RHC	PC	CONFORMED DOCUMENTS

REV. NO.	DATE	DRWN	CHKD	REMARKS
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CDM Camp Dresser & McKee Inc.
 consulting engineering construction operations

R. L. SUTTON WATER RECLAMATION FACILITY
COBB COUNTY WATER SYSTEM, GEORGIA

R. L. SUTTON WRF REPLACEMENT

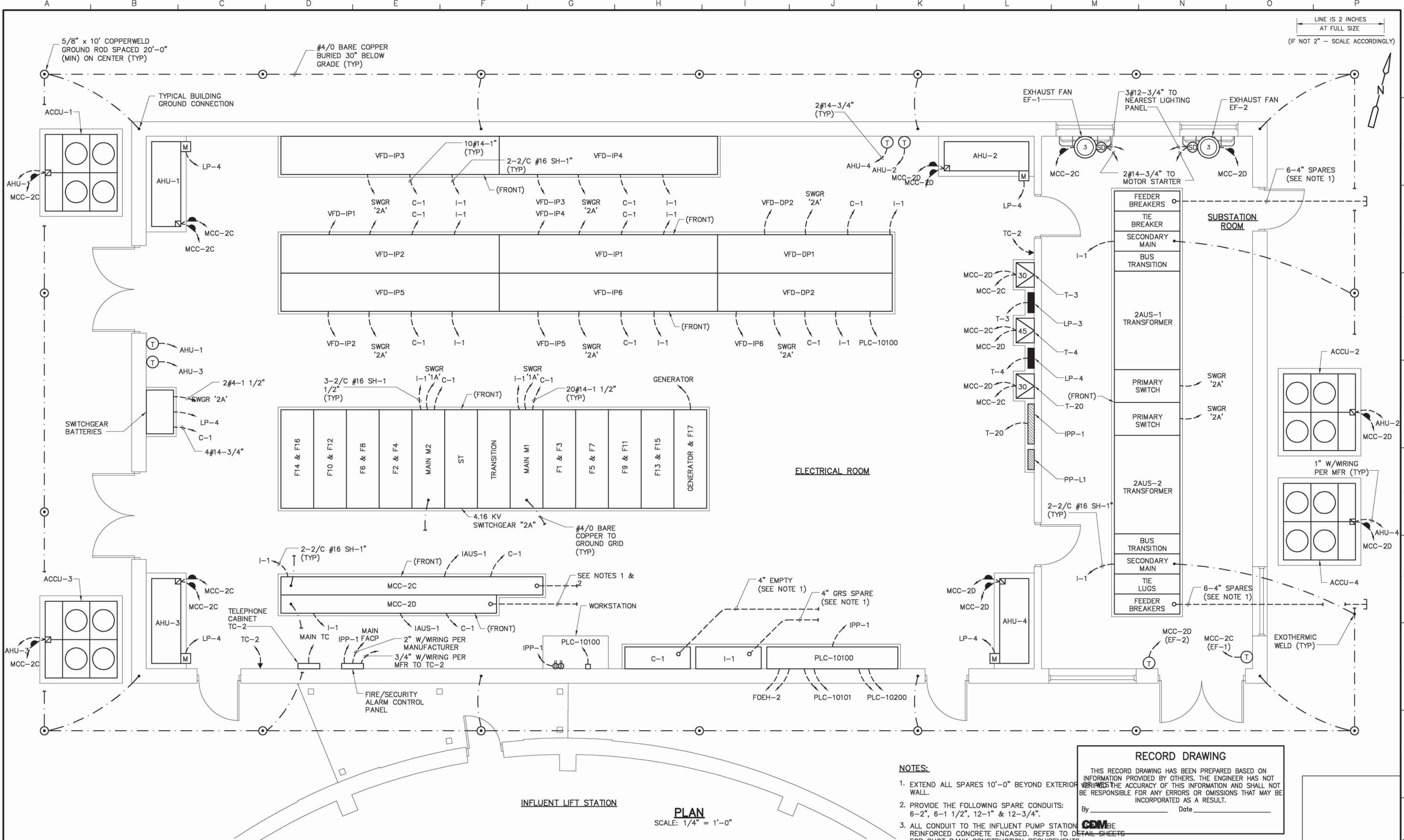
ELECTRICAL SYMBOLS AND ABBREVIATIONS		PROJECT NO. T-2502
		FILE NAME: ESYMAB01
		SHEET NO. E-1

PLAN SYMBOLS				PLAN SYMBOLS (CONTINUED)				CONTROL DIAGRAM SYMBOLS				ABBREVIATIONS			
<p>HOME RUN TO DESIGNATED EQUIPMENT. NUMBER OF ARROWS INDICATE NUMBER OF CIRCUITS, HASH MARKS INDICATE NUMBER OF #12 AWG. CONDUCTORS. NO HASH MARKS INDICATE 2#12 CONDUCTORS. UNLESS OTHERWISE NOTED.</p> <p>CONDUIT CONCEALED IN WALL, IN SLAB ABOVE, OR ABOVE CEILING.</p> <p>CONDUIT CONCEALED IN OR BELOW FLOOR OR UNDERGROUND.</p> <p>CONDUIT RUN EXPOSED. RUN PARALLEL OR PERPENDICULAR TO STRUCTURE OR WALL.</p> <p>CONCRETE ENCASED DUCTBANK.</p> <p>CEILING MOUNTED LIGHTING FIXTURE, UPPER CASE LETTER INDICATES TYPE (TYPICAL). LOWER CASE LETTER INDICATES SWITCH DESIGNATION (TYPICAL).</p> <p>WALL MOUNTED LIGHTING FIXTURE.</p> <p>FLUORESCENT LIGHTING FIXTURE, CEILING MOUNTED. UPPERCASE LETTER INDICATES TYPE (TYPICAL). LOWER CASE LETTER INDICATES SWITCH DESIGNATION (TYPICAL).</p> <p>FLUORESCENT STRIP FIXTURE.</p> <p>EXTERIOR LUMINARE AND MOUNTING STANDARD.</p> <p>EMERGENCY BATTERY PACK LIGHTING FIXTURE.</p> <p>CEILING OR WALL MOUNTED EXIT LIGHT FIXTURE WITH BATTERY PACK. PROVIDE ARROWS AS REQUIRED.</p> <p>EXIT LIGHT FIXTURES WITHOUT BATTERY PACK.</p> <p>60A, 480V, 3ø, 4W WALL MOUNTED RECEPTACLE, WEATHER PROOF W/ GASKETED COVER, 36" ABOVE FINISHED FLOOR.</p> <p>JUNCTION BOX PER N.E.C., FLUSH MOUNTED UNLESS INDICATED OTHERWISE.</p> <p>DRY TYPE TRANSFORMER. NO. INDICATES KVA RATING.</p> <p>20A, 125V, 3W DUPLEX RECEPTACLE IN FLUSH OUTLET BOX, 18" ABOVE FINISHED FLOOR.</p> <p>20A, 125V, 3W DUPLEX RECEPTACLE IN FLUSH OUTLET BOX, 48" ABOVE FINISHED FLOOR OR 2" ABOVE COUNTER AS REQUIRED.</p> <p>20A, 125V, 3W "HOSPITAL GRADE" DUPLEX RECEPTACLE WITH ISOLATED GROUND CONNECTION.</p> <p>20A, 125V, 3W DUPLEX RECEPTACLE, SURFACE MOUNTED.</p> <p>20A, 250V, 1ø, 3W SINGLE RECEPTACLE IN FLUSH OUTLET BOX, 18" ABOVE FINISHED FLOOR.</p> <p>50A, 250V, 1ø, 3W SINGLE RECEPTACLE IN FLUSH OUTLET BOX, 18" ABOVE FINISHED FLOOR.</p> <p>SINGLE POLE SWITCH IN FLUSH OUTLET BOX, 48" ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED (TYPICAL).</p> <p>SINGLE POLE SWITCH, SURFACE MOUNTED.</p> <p>THREE-WAY SWITCH IN FLUSH OUTLET BOX.</p> <p>FOUR-WAY SWITCH IN FLUSH OUTLET BOX.</p> <p>2000 W INCANDESCENT DIMMING SWITCH IN FLUSH OUTLET BOX, 48" ABOVE FINISHED FLOOR.</p> <p>NON-FUSIBLE DISCONNECT SWITCH, 30A, 3P UNLESS OTHERWISE INDICATED ON SINGLE LINE DIAGRAMS.</p> <p>NON-FUSIBLE DISCONNECT SWITCH, 30A, 3P UNLESS OTHERWISE INDICATED, WITH REMOTE CONTROL STATION AS REQUIRED BY ELEMENTARY DIAGRAMS OR SPECS.</p> <p>ELECTRIC A.C. MOTOR, NO. INDICATES HORSEPOWER.</p> <p>ELECTRIC D.C. MOTOR, NO. INDICATES HORSEPOWER.</p> <p>MOTORIZED VALVE</p> <p>COMBINATION MAGNETIC MOTOR STARTER</p> <p>VARIABLE FREQUENCY DRIVE</p> <p>HUMIDISTAT</p> <p>MOTOR OPERATOR</p> <p>THERMOSTAT</p> <p>FLUSH OUTLET BOX AND TELEPHONE COVER PLATE 48" ABOVE FINISHED FLOOR.</p> <p>FLUSH OUTLET BOX AND COVER PLATE SUITABLE FOR COMPUTER DEVICE CONNECTION.</p> <p>CEILING MOUNTED SMOKE DETECTOR.</p> <p>DUCT MOUNTED SMOKE DETECTOR.</p> <p>FIRE ALARM MANUAL PULL STATION IN FLUSH OUTLET BOX, 48" ABOVE FINISHED FLOOR.</p> <p>FIRE ALARM HORN IN FLUSH OUTLET BOX, 12" BELOW CEILING.</p> <p>NON-FUSIBLE DISCONNECT SWITCH, 30A, 3P UNLESS OTHERWISE INDICATED ON SINGLE LINE DIAGRAMS.</p>				<p>FS FLOW SWITCH</p> <p>VCP VALVE CONTROL PANEL</p> <p>CP CONTROL PANEL</p> <p>ES EMERGENCY STOP SWITCH</p> <p>HOR HAND/OFF/REMOTE SELECTOR SWITCH</p> <p>OHC OPEN/HOLD/CLOSE SELECTOR SWITCH</p> <p>LCS LOCAL CONTROL STATION</p> <p>LS LIMIT SWITCH</p> <p>SS SPEED SWITCH</p> <p>ST SPEED TRANSMITTER (TACHOMETER)</p> <p>PS PRESSURE SWITCH</p> <p>XS TORQUE SWITCH</p> <p>ZS ZERO SPEED SWITCH OR POSITION SWITCH</p> <p>SV SOLENOID VALVE</p> <p>LLS LIQUID LEVEL SWITCH</p> <p>LSL LEVEL SWITCH LOW</p> <p>LSH LEVEL SWITCH HIGH</p> <p>VS VIBRATION SWITCH</p> <p>FIT FLOW INDICATING TRANSMITTER</p> <p>LIT LEVEL INDICATING TRANSMITTER</p> <p>FS EMERGENCY EYEWASH/SHOWER</p>				<p>NORMALLY OPEN CONTACT</p> <p>NORMALLY CLOSED CONTACT</p> <p>LIMIT SWITCH, NORMALLY OPEN</p> <p>LIMIT SWITCH, NORMALLY CLOSED</p> <p>PRESSURE SWITCH, NORMALLY OPEN</p> <p>PRESSURE SWITCH, NORMALLY CLOSED</p> <p>FLOAT SWITCH, NORMALLY OPEN</p> <p>FLOAT SWITCH, NORMALLY CLOSED</p> <p>FLOW SWITCH, NORMALLY OPEN</p> <p>FLOW SWITCH, NORMALLY CLOSED</p> <p>TEMPERATURE SWITCH, NORMALLY OPEN</p> <p>TEMPERATURE SWITCH, NORMALLY CLOSED</p> <p>NORMALLY OPEN, TIMED TO CLOSE CONTACT</p> <p>NORMALLY CLOSED, TIMED TO OPEN CONTACT</p> <p>NORMALLY CLOSED, TIMED TO CLOSE CONTACT</p> <p>NORMALLY OPEN, TIMED TO OPEN CONTACT</p> <p>LIMIT SWITCH</p> <p>TORQUE SWITCH</p> <p>PRESSURE SWITCH</p> <p>ZERO SPEED SWITCH</p> <p>SOLENOID VALVE</p> <p>LIQUID LEVEL SWITCH</p> <p>VIBRATION SWITCH</p> <p>ALARM RELAY</p> <p>ALARM TIMER</p> <p>CONTROL RELAY</p> <p>MOTOR STARTER</p> <p>TIMING RELAY</p> <p>ALARM INDICATING LIGHT</p> <p>RUN INDICATING LIGHT</p> <p>MOMENTARY CONTACT PUSHBUTTON</p> <p>MOMENTARY BREAK PUSHBUTTON OR RESET</p> <p>KEYED SWITCH</p> <p>MAINTAINED CONTACT ON-OFF SWITCH</p> <p>START/STOP (S/S) CONTROL SWITCH MAINTAINED CONTACT</p> <p>THREE POSITION MAINTAINED CONTACT SELECTOR SWITCH</p> <p>FUSE</p> <p>MOLDED CASE CIRCUIT BREAKER</p> <p>CONTROL POWER TRANSFORMER</p> <p>REMOTE TERMINAL BLOCK POINT</p>				<p>A AMPERES</p> <p>AC ALTERNATING CURRENT</p> <p>ACCU AIR COOLED CONDENSING UNIT</p> <p>AMP FRAME</p> <p>AFF ABOVE FINISHED FLOOR</p> <p>AFG ABOVE FINISHED GRADE</p> <p>AHU AIR HANDLING UNIT</p> <p>AIC AMPERE INTERRUPTING CAPACITY</p> <p>AT AMP TRIP</p> <p>ATS AUTOMATIC TRANSFER SWITCH</p> <p>BKR BREAKER</p> <p>BLDG BUILDING</p> <p>CIR CIRCUIT</p> <p>CLB CURRENT LIMITING BREAKER</p> <p>CONT CONTROL</p> <p>CL CONNECTED LOAD</p> <p>CU COPPER</p> <p>CWP COLD WATER PIPE</p> <p>CP CONTROL PANEL</p> <p>DIA DIAMETER</p> <p>ELEC ELECTRICAL</p> <p>ELR EMERGENCY LOCK-OUT RELAY</p> <p>EM EMERGENCY</p> <p>ENCL ENCLOSURE</p> <p>EP EXPLOSION PROOF</p> <p>ES EMERGENCY STOP PUSH BUTTON</p> <p>ESB ENERGY SAVING BALLAST</p> <p>EUH ELECTRIC UNIT HEATER</p> <p>EWH ELECTRIC WATER HEATER</p> <p>EXIST EXISTING</p> <p>FAAP FIRE ALARM ANNUNCIATOR PANEL</p> <p>FACP FIRE ALARM CONTROL PANEL</p> <p>FOEH FIBER OPTIC ETHERNET HUB</p> <p>GFCI GROUND FAULT CIRCUIT INTERRUPTER</p> <p>GND GROUND</p> <p>HOA HAND-OFF-AUTOMATIC</p> <p>HOR HAND-OFF-REMOTE</p> <p>HORC HAND-OFF-REMOTE-COMPUTER</p> <p>HP HORSEPOWER</p> <p>HPS HIGH PRESSURE SODIUM</p> <p>INSTR INSTRUMENTATION</p> <p>KVA KILOVOLT-AMPERES</p> <p>KW KILOWATT</p> <p>LCS LOCAL CONTROL STATION</p> <p>LDR LOAD DUMP RELAY</p> <p>LTG LIGHTING</p> <p>MAX MAXIMUM</p> <p>MB MAIN BREAKER</p> <p>MCC MOTOR CONTROL CENTER</p> <p>MCP MOTOR CIRCUIT PROTECTOR</p> <p>MFR MANUFACTURER</p> <p>MH METAL HALIDE, MANHOLE</p> <p>MIN MINIMUM</p> <p>MLO MAIN LUGS ONLY</p> <p>MOD'S MOTOR OPERATED DAMPERS</p> <p>MSH MOTOR SPACE HEATER</p> <p>MTD MOUNTED</p> <p>NC NORMALLY CLOSED</p> <p>NEC NATIONAL ELECTRICAL CODE</p> <p>NEUT NEUTRAL</p> <p>NO NORMALLY OPEN</p> <p>NTS NOT TO SCALE</p> <p>OC ON CENTER</p> <p>OH OVERHEAD</p> <p>OHC OPEN/HOLD/CLOSE</p> <p>OLCP OUTSIDE LIGHTING CONTROL PANEL</p> <p>OL'S OVERLOADS</p> <p>OMI OPERATOR MACHINE INTERFACE</p> <p>P POLE</p> <p>PB PULL BOX</p> <p>PC PHOTOELECTRIC CONTROL</p> <p>PCP PUMP CONTROL PANEL</p> <p>PC/TC PHOTOELECTRIC CONTROL/TIME CLOCK</p> <p>PFCC POWER FACTOR CORRECTION CAPACITOR</p> <p>PLC PROGRAMMABLE LOGIC CONTROLLER</p> <p>PNL PANEL</p> <p>PPS PUMP PUSH-BUTTON STATION</p> <p>PR PAIR</p> <p>QTY QUANTITY</p> <p>RECPRT RECEPTACLE</p> <p>RGS RIGID GAUGE RIBBED GALVANNEAL HAS BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE ENGINEER HAS NOT VERIFIED THE ACCURACY OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT.</p> <p>RS RAPID RESPONSE</p> <p>RTD RESISTANCE TEMPERATURE DETECTOR</p> <p>RVAT REDUCED VOLTAGE AUTOMATIC TRANSFORMER</p> <p>S/S START/STOP</p> <p>SH SHIELD</p> <p>SS STAINLESS STEEL</p> <p>SW SWITCH</p> <p>SWGR SWITCHGEAR</p> <p>TC TRAY CABLE</p> <p>TR TRANSFORMER</p> <p>TRD TRIAD</p> <p>TTC TELEPHONE TERMINAL CABINET</p> <p>TVSS TRANSIENT VOLTAGE SURGE SUPPRESSOR</p> <p>TYP TYPICAL</p> <p>UG UNDERGROUND</p> <p>UPS UNINTERRUPTIBLE POWER SUPPLY</p> <p>US UNIT SUBSTATION</p> <p>UV ULTRAVIOLET</p> <p>V VOLT</p> <p>VCP VALVE CONTROL PANEL</p> <p>VFD VARIABLE FREQUENCY DRIVE</p> <p>VMP VIBRATION MONITORING PANEL</p> <p>VVT VARIABLE VOLUME TERMINAL</p> <p>W WIRE, WATT, WITH</p> <p>WP WEATHERPROOF</p>			
				SINGLE LINE DIAGRAM SYMBOLS								GENERAL NOTE THIS IS A STANDARD LEGEND. SOME SYMBOLS AND ABBREVIATIONS MAY NOT APPEAR ON THE DRAWINGS.			
				<p>V VOLTMETER</p> <p>A AMMETER</p> <p>VS THREE PHASE VOLT SWITCH</p> <p>AS THREE PHASE AMP SWITCH</p> <p>GFI GROUND FAULT INTERRUPTER</p> <p>W WATT HOUR METER</p> <p>FUSE</p> <p>CAPACITOR</p> <p>DRAW-OUT CIRCUIT BREAKER</p> <p>MOLDED CASE CIRCUIT BREAKER</p> <p>MOTOR STARTER</p> <p>ELECTRIC A.C. MOTOR, NO. INDICATES HORSEPOWER.</p> <p>ELECTRIC D.C. MOTOR, NO. INDICATES HORSEPOWER.</p> <p>SERVICE OR EQUIPMENT GROUND.</p> <p>NON-FUSIBLE DISCONNECT SWITCH, 30A, 3P UNLESS OTHERWISE INDICATED.</p> <p>LIGHTING PANELBOARD</p> <p>POWER PANELBOARD</p> <p>KIRK KEY INTERLOCK</p> <p>CURRENT TRANSFORMERS</p> <p>ZERO SEQUENCE TRANSFORMER</p> <p>POTENTIAL TRANSFORMERS</p> <p>MANUAL OR AUTOMATIC TRANSFER SWITCH</p> <p>LIGHTNING ARRESTER & SURGE CAPACITOR</p>				<p>NOTES:</p> <p>1. TYPICAL LEGEND FOR SINGLE CONDUIT RUN.</p> <p>2. STANDARD LEGEND FOR PARALLEL CONDUIT RUNS.</p>							

DESIGNED BY: N. AYAD	CDM Camp Dresser & McKee Inc. <small>consulting engineering construction operations</small>	R. L. SUTTON WATER RECLAMATION FACILITY COBB COUNTY WATER SYSTEM, GEORGIA	PROJECT NO. T-2502
DRAWN BY: R. CARTER		ELECTRICAL SYMBOLS AND ABBREVIATIONS	FILE NAME: ESYMAB01
SHEET CHK'D BY: W. NELSON		R. L. SUTTON WRF REPLACEMENT	SHEET NO. E-1
CROSS CHK'D BY: P. LEFAVE			
APPROVED BY: W. NELSON			
DATE: JANUARY 2001			

REV. NO.	DATE	DRWN	CHKD	REMARKS
07/06		MJC	RHC	RECORD DRAWINGS
5/01		RHC	PC	CONFORMED DOCUMENTS

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

NOTES:

- EXTEND ALL SPARES 10'-0" BEYOND EXTERIOR WALL.
- PROVIDE THE FOLLOWING SPARE CONDUITS: 6-2", 6-1 1/2", 12-1" & 12-3/4".
- ALL CONDUIT TO THE INFLUENT PUMP STATION SHALL BE REINFORCED CONCRETE ENCASED. REFER TO DETAIL SHEETS FOR DUCT BANK CONSTRUCTION REQUIREMENTS.

RECORD DRAWING

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By _____ Date _____

CDM

RECORD DRAWING

REV. NO.	DATE	DRWN	CHKD	REMARKS
07/06		MJC	RHC	RECORD DRAWINGS
5/01		RHC	PC	CONFORMED DOCUMENTS
3/15/01		RHC	PC	ADDENDUM NO. 3 - GENERAL REVISIONS
3/7/01		RHC	PC	ADDENDUM NO. 2 - GENERAL REVISIONS

DESIGNED BY: N. AYAD
 DRAWN BY: R. CARTER
 SHEET CHK'D BY: W. NELSON
 CROSS CHK'D BY: P. LEFAVE
 APPROVED BY: W. NELSON
 DATE: JANUARY 2001

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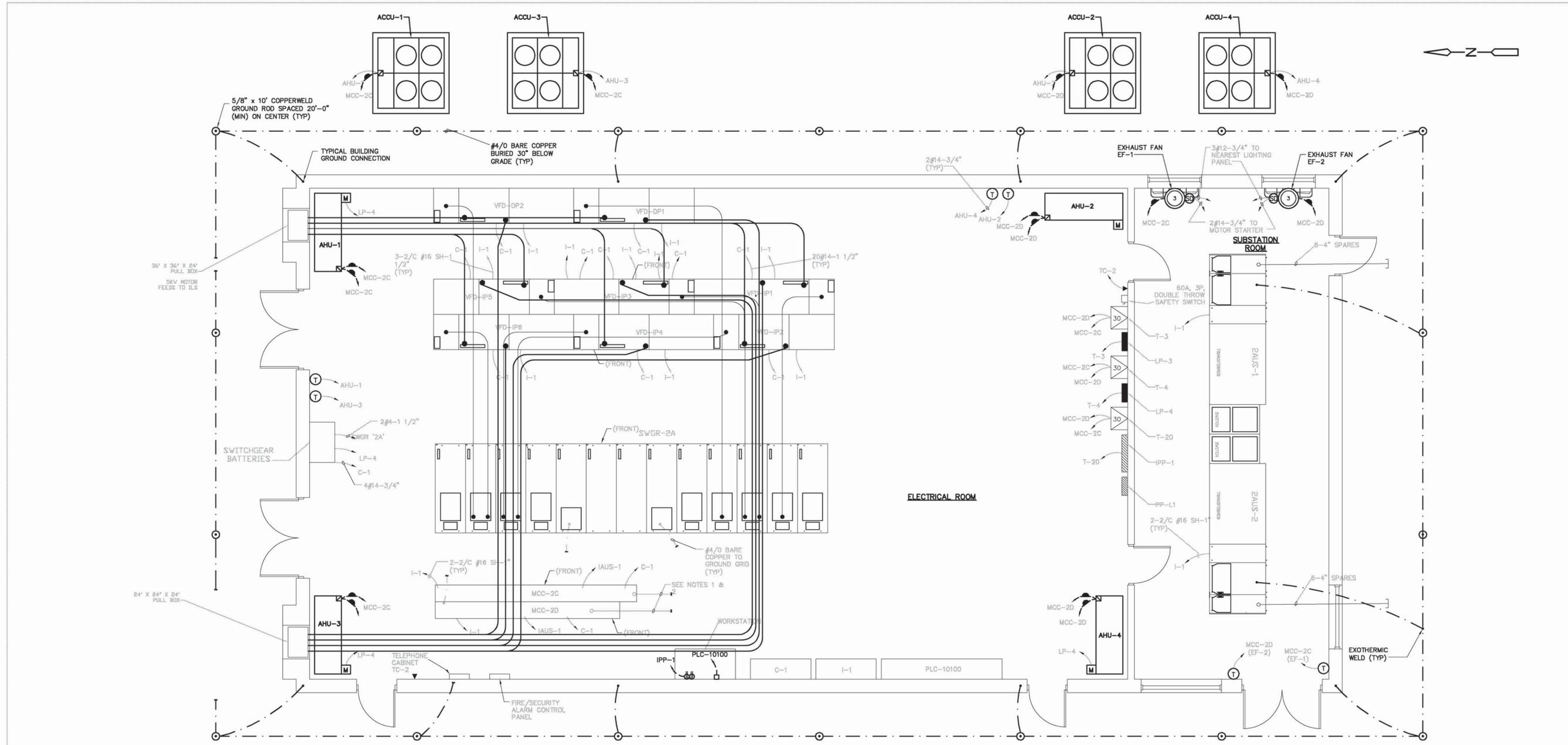
R. L. SUTTON WATER RECLAMATION FACILITY
 COBB COUNTY WATER SYSTEM, GEORGIA

R. L. SUTTON WRF REPLACEMENT

**INFLUENT ELECTRICAL BUILDING
 POWER AND CONTROL LAYOUT**

PROJECT NO.	T-2502
FILE NAME:	EILSEB59
SHEET NO.	E-59

06/13/01 09:30:01 8:05:47 C:\2824_24429\Conformed\ELEC\eilse59



RECORD DRAWING

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By _____ Date _____

CDM

RECORD DRAWING

DESIGNED BY: N. AYAD	CDM	R. L. SUTTON WATER RECLAMATION FACILITY	PROJECT NO. T-2502
DRAWN BY: R. CARTER	Camp Dresser & McKee Inc.	COBB COUNTY WATER SYSTEM, GEORGIA	FILE NAME: EILSEB59A
SHEET CHK'D BY: W. NELSON			SHEET NO.
CROSS CHK'D BY: P. LEFAVE			E-59A
APPROVED BY: W. NELSON			
DATE: JANUARY 2001			

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R. L. SUTTON WRF REPLACEMENT

INFLUENT ELECTRICAL BUILDING
POWER AND CONTROL LAYOUT

PROJECT NO. T-2502
FILE NAME: EILSEB59A
SHEET NO.
E-59A

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 8:05:47
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SYMBOLS		ABBREVIATIONS		ABBREVIATIONS (CONTINUED)		NOTES
	THERMOSTAT	A	AIR	HG	HOT GAS	<p>1. OUTDOOR AIR CALCULATIONS PROVIDED PER ASHRAE STANDARD 62 ARE PROVIDED FOR INFORMATIONAL AND CODE REVIEW PURPOSES ONLY. THE CALCULATIONS DO NOT CHANGE THE CONTRACT DOCUMENTS.</p> <p>2. OUTDOOR AIR CALCULATIONS ARE PROVIDED FOR BUILDINGS WHICH ARE NORMALLY OCCUPIED. ALL OTHER BUILDINGS ARE NORMALLY UNOCCUPIED, AND ARE NOT COVERED UNDER THE SCOPE OF ASHRAE 62. PLEASE NOTE THAT ALL NORMALLY UNOCCUPIED BUILDINGS ARE VENTILATED WITH OUTDOOR AIR AT A MINIMUM RATE OF 6 AIR CHANGES PER HOUR.</p> <p>DRAWING H-15: OUTDOOR AIR CALCULATIONS – ADMINISTRATION BUILDING</p> <p><u>MEN E118</u></p> <p>TOTAL AREA = 309 SQUARE FEET ASHRAE STANDARD 62 REQUIRED VENTILATION RATE = 2 CFM PER SQUARE FOOT ASHRAE STANDARD 62 REQUIRED VENTILATION = 618 CFM PROVIDED VENTILATION FROM EXHAUST FAN <u>EF-16</u> = 700 CFM</p> <p>OUTDOOR AIR PROVIDED BY AIR HANDLING UNIT <u>AHU-7</u>.</p> <p><u>WOMEN E117</u></p> <p>TOTAL AREA = 247 SQUARE FEET ASHRAE STANDARD 62 REQUIRED VENTILATION RATE = 2 CFM PER SQUARE FOOT ASHRAE STANDARD 62 REQUIRED VENTILATION = 494 CFM PROVIDED VENTILATION FROM EXHAUST FAN <u>EF-15</u> = 550 CFM</p> <p>OUTDOOR AIR PROVIDED BY AIR HANDLING UNIT <u>AHU-7</u>.</p> <p><u>ADMINISTRATION AREA</u></p> <p>TOTAL NUMBER OF OCCUPANTS = 50 ASHRAE STANDARD 62 REQUIRED VENTILATION RATE = 20 CFM PER PERSON ASHRAE STANDARD 62 REQUIRED VENTILATION = 1000 CFM PROVIDED VENTILATION FROM AIR HANDLING UNIT <u>AHU-7</u> = 1300 CFM</p> <p>DRAWING H-16: OUTDOOR AIR CALCULATIONS – OPERATIONS BUILDING</p> <p><u>MEN F105</u></p> <p>TOTAL AREA = 359 SQUARE FEET ASHRAE STANDARD 62 REQUIRED VENTILATION RATE = 2 CFM PER SQUARE FOOT ASHRAE STANDARD 62 REQUIRED VENTILATION = 718 CFM PROVIDED VENTILATION FROM EXHAUST FAN <u>EF-19</u> = 725 CFM</p> <p>OUTDOOR AIR PROVIDED BY AIR HANDLING UNIT <u>AHU-10</u> AND OUTDOOR AIR LOUVERS.</p> <p><u>WOMEN F106</u></p> <p>TOTAL AREA = 169 SQUARE FEET ASHRAE STANDARD 62 REQUIRED VENTILATION RATE = 2 CFM PER SQUARE FOOT ASHRAE STANDARD 62 REQUIRED VENTILATION = 338 CFM PROVIDED VENTILATION FROM EXHAUST FAN <u>EF-20</u> = 350 CFM</p> <p>OUTDOOR AIR PROVIDED BY AIR HANDLING UNIT <u>AHU-10</u> AND OUTDOOR AIR LOUVERS.</p> <p><u>OPERATIONS AREA</u></p> <p>TOTAL NUMBER OF OCCUPANTS = 8 ASHRAE STANDARD 62 REQUIRED VENTILATION RATE = 20 CFM PER PERSON ASHRAE STANDARD 62 REQUIRED VENTILATION = 160 CFM PROVIDED VENTILATION FROM AIR HANDLING UNIT <u>AHU-10</u> = 725 CFM</p> <p><u>ELECTRICAL F103</u></p> <p>TOTAL AREA = 1579 SQUARE FEET ASHRAE STANDARD 62 REQUIRED VENTILATION RATE = 0.05 CFM PER SQUARE FOOT ASHRAE STANDARD 62 REQUIRED VENTILATION = 79 CFM EXTERIOR WALL AREA = 640 SQUARE FEET ASHRAE STANDARD 62 SPECIFIED INFILTRATION RATE = 0.076 CFM PER SQUARE FOOT EXTERIOR DOOR AREA = 124 SQUARE FEET ASHRAE STANDARD 62 SPECIFIED INFILTRATION RATE = 1.2 CFM PER SQUARE FOOT PROVIDED VENTILATION FROM EXTERIOR WALL AND DOOR INFILTRATION = 197 CFM</p> <p>OUTDOOR AIR PROVIDED BY INFILTRATION. <u>NORMALLY UNOCCUPIED AREA.</u></p> <p><u>UNIT SUBSTATION F102</u></p> <p>TOTAL AREA = 987 SQUARE FEET TOTAL VOLUME = 21,212 CUBIC FEET ASHRAE STANDARD 62 REQUIRED VENTILATION RATE = 0.05 CFM PER SQUARE FOOT ASHRAE STANDARD 62 REQUIRED VENTILATION = 49 CFM PROVIDED VENTILATION FROM EXHAUST FANS <u>EF-17</u> AND <u>EF-18</u> = 32,000 CFM</p> <p>OUTDOOR AIR PROVIDED BY OUTDOOR AIR INTAKE LOUVERS. <u>NORMALLY UNOCCUPIED AREA.</u></p>
	HUMIDISTAT	ACCU	AIR COOLED CONDENSING UNIT	HW	HOT WATER	
	SMOKE DETECTOR	AHU	AIR HANDLING UNIT	KW	KILOWATT	
	AIR FLOW SENSOR	AD	ACCESS DOOR	LD	LINEAR DIFFUSER	
	CONTROL DAMPER	ALUM	ALUMINUM	LVR	LOUVER	
	FIRE DAMPER	AR	ACID RESISTANT	LIQ	LIQUID	
	SMOKE ACTUATED FIRE DAMPER	ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	MBH	1000 BTUH	
	FLEXIBLE CONNECTION	AABC	ASSOCIATED AIR BALANCE COUNCIL	MCC	MOTOR CONTROL CENTER	
	ELBOW WITH TURNING VANES	AFF	ABOVE FINISHED FLOOR	MFR	MANUFACTURER	
	EXHAUST GRILLE	ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS	MOD	MOTOR OPERATED DAMPER	
	EXHAUST REGISTER	BDD	BACKDRAFT DAMPER	MTD	MOUNTED	
	RETURN GRILLE	BEL	BELOW	MTG	MOUNTING	
	SUPPLY REGISTER	BLDG	BUILDING	NOM	NOMINAL	
	SUPPLY DUCT	BS	BIRDSCREEN	NTS	NOT TO SCALE	
	RETURN / EXHAUST DUCT	BTU	BRITISH THERMAL UNITS	OSA	OUTSIDE AIR	
	DOOR GRILLE	BTUH	BTU PER HOUR	OBD	OPPOSED BLADE DAMPER	
	TRANSFER GRILLE	C	CONDENSATE	PCD	PERFORATED CEILING DIFFUSER	
	TRANSFER DUCT	CFM	CUBIC FEET PER MINUTE	PBD	PARALLEL BLADE DAMPER	
	SPLITTER DAMPER	CLG	CEILING	PCF	POUNDS PER CUBIC FOOT	
	SHOE-TAP	CD	CONTROL DAMPER	PPM	PARTS PER MILLION	
	EXTRACTOR	CONC	CONCRETE	PAC	PACKAGED AIR CONDITIONING UNIT	
	DAMPER-EXTRACTOR DUCT CONNECTION	COND	CONDENSATE	PSI	POUNDS PER SQUARE INCH	
	CEILING DIFFUSER – TYPE VARIES	CONN	CONNECTION	PVC	POLYVINYL CHLORIDE	
	ROOF MOUNTED EXHAUST FAN	CW	CHILLED WATER	R/A	RETURN AIR	
	WALL MOUNTED EXHAUST FAN	CWS	CHILLED WATER SUPPLY	RG	RETURN GRILLE	
	VARIABLE AIR VOLUME REGULATOR W/ OUTLETS	CWR	CHILLED WATER RETURN	REF	REFRIGERANT	
	ROUND FLEXIBLE INSULATED DUCT	DB	DRY BULB	RLA	RATED LOAD AMPS	
	SHEET METAL DUCT	DISC	DISCHARGE	RPM	REVOLUTIONS PER MINUTE	
	ELECTRIC UNIT HEATER	DG	DOOR GRILLE	RM	ROOM	
	ELECTRIC DUCT HEATER	DS	DOOR SWITCH	SAD	SUPPLY AIR DIFFUSER	
	ENERGY RECOVERY UNIT	DN	DOWN	SEER	SEASONAL ENERGY EFFICIENCY RATIO	
	VVT BOX WITH TRANSITION	DPR	DAMPER	SHT	SHEET	
		DS	DISCONNECT SWITCH	SM	SHEET METAL	
		DIA	DIAMETER	ST	STEAM	
		EA	EACH	SP	STATIC PRESSURE	
		EG	EXHAUST GRILLE	SS	STAINLESS STEEL	
		EDH	ELECTRIC DUCT HEATER	STD	STANDARD	
		EUH	ELECTRIC UNIT HEATER	SUCT	SUCTION	
		EER	ENERGY EFFICIENCY RATIO	S/A	SUPPLY AIR	
		EF	EXHAUST FAN	SR	SUPPLY REGISTER	
		ER	EXHAUST REGISTER	SW	SWITCH	
		ESP	EXTERNAL STATIC PRESSURE	SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION	
		EVAP	EVAPORATION	TDH	TOTAL DISCHARGE HEAD	
		FC	FLEXIBLE CONNECTION	TEMP	TEMPERATURE	
		FD	FIRE DAMPER	TG	TRANSFER GRILLE	
		FIN	FINISH	TSP	TOTAL STATIC PRESSURE	
		FLA	FULL LOAD AMPS	TV	TURNING VANES	
		FL	FLOOR	TYP	TYPICAL	
		FRP	FIBERGLASS REINFORCED PLASTIC	UH	UNIT HEATER	
		FT	FEET	UL	UNDERWRITERS LABORATORY	
		FT ²	SQUARE FEET	VAP	VAPOR	
		GA	GAUGE	W/	WITH	
		GALV	GALVANIZED	WB	WET BULB	
		GPH	GALLONS PER HOUR	WT	WEIGHT	
		GPM	GALLONS PER MINUTE	WTR	WATER	
		GFC	GAS FIRED CHILLER	WG	WATER GAUGE	
		HP	HORSEPOWER	WS	WALL SWITCH	
		HR	HOUR			

LINE IS 2 INCHES AT FULL SIZE
(IF NOT 2" - SCALE ACCORDINGLY)

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By _____ Date _____

CDM

RECORD DRAWING

DESIGNED BY: <u>W. HAYGOOD</u>
DRAWN BY: <u>P. POULIOT</u>
SHEET CHK'D BY: <u>W. HAYGOOD</u>
CROSS CHK'D BY: <u>J. MILLS</u>
APPROVED BY: <u>W. HAYGOOD</u>
DATE: <u>JANUARY 2001</u>

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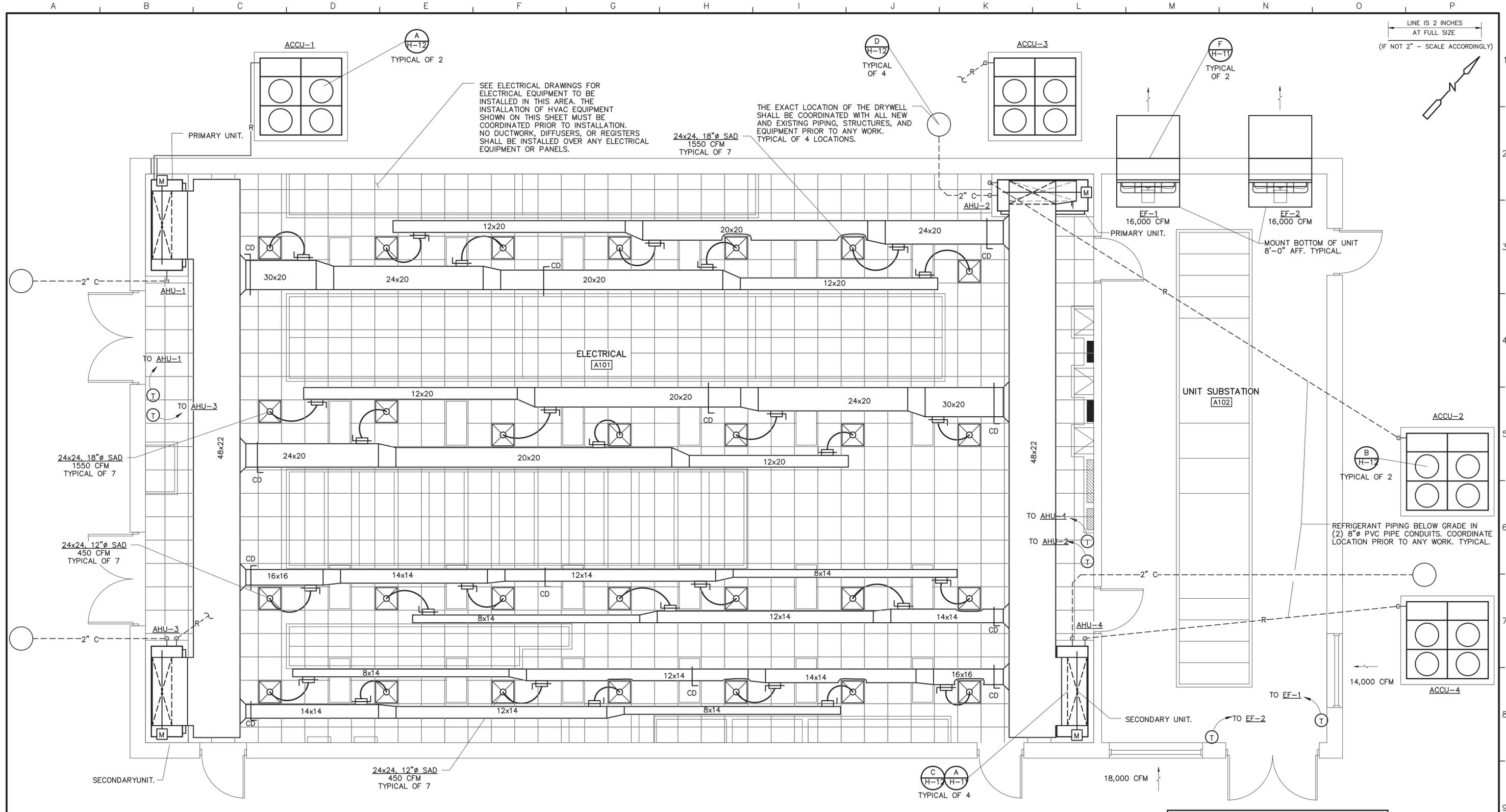
R. L. SUTTON WATER RECLAMATION FACILITY
COBB COUNTY WATER SYSTEM, GEORGIA

R. L. SUTTON WRF REPLACEMENT

HVAC SYMBOLS AND ABBREVIATIONS

PROJECT NO. T-2502
FILE NAME: HABS001
SHEET NO. H-1

0:\2824_24429\Content\WVAC\Habsy001 06/17/01 08:04:32 16:57:14 Pouliot



PLAN
1/4" = 1'-0"

RECORD DRAWING

THIS RECORD DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE ENGINEER HAS NOT VERIFIED THE ACCURACY OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT.

By _____ Date _____

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RECORD DRAWING

REV. NO.	DATE	DRWN	CHKD	REMARKS
7/06		RJH	PAP	RECORD DRAWING
5/01		PAP	MER	CONFORMED DOCUMENTS
2/22/01		PAP	PAP	ADDENDUM NO. 1 - GENERAL REVISIONS

DESIGNED BY: W. HAYGOOD
 DRAWN BY: P. POULIOT
 SHEET CHK'D BY: W. HAYGOOD
 CROSS CHK'D BY: J. MILLS
 APPROVED BY: W. HAYGOOD
 DATE: JANUARY 2001

CDM Camp Dresser & McKee Inc.

consulting
engineering
construction
operations

R. L. SUTTON WATER RECLAMATION FACILITY
 COBB COUNTY WATER SYSTEM, GEORGIA

R. L. SUTTON WRF REPLACEMENT

INFLUENT LIFT STATION
 ELECTRICAL BUILDING
 HVAC PLAN

PROJECT NO.	T-2502
FILE NAME:	HEIPL002
SHEET NO.	H-2

06/12/01 10:41:07 5:59:16 Poulitope

SEE THE NEW SPECIFICATION SECTION 15856 FOR SPECIFIC UNIT REQUIREMENTS.

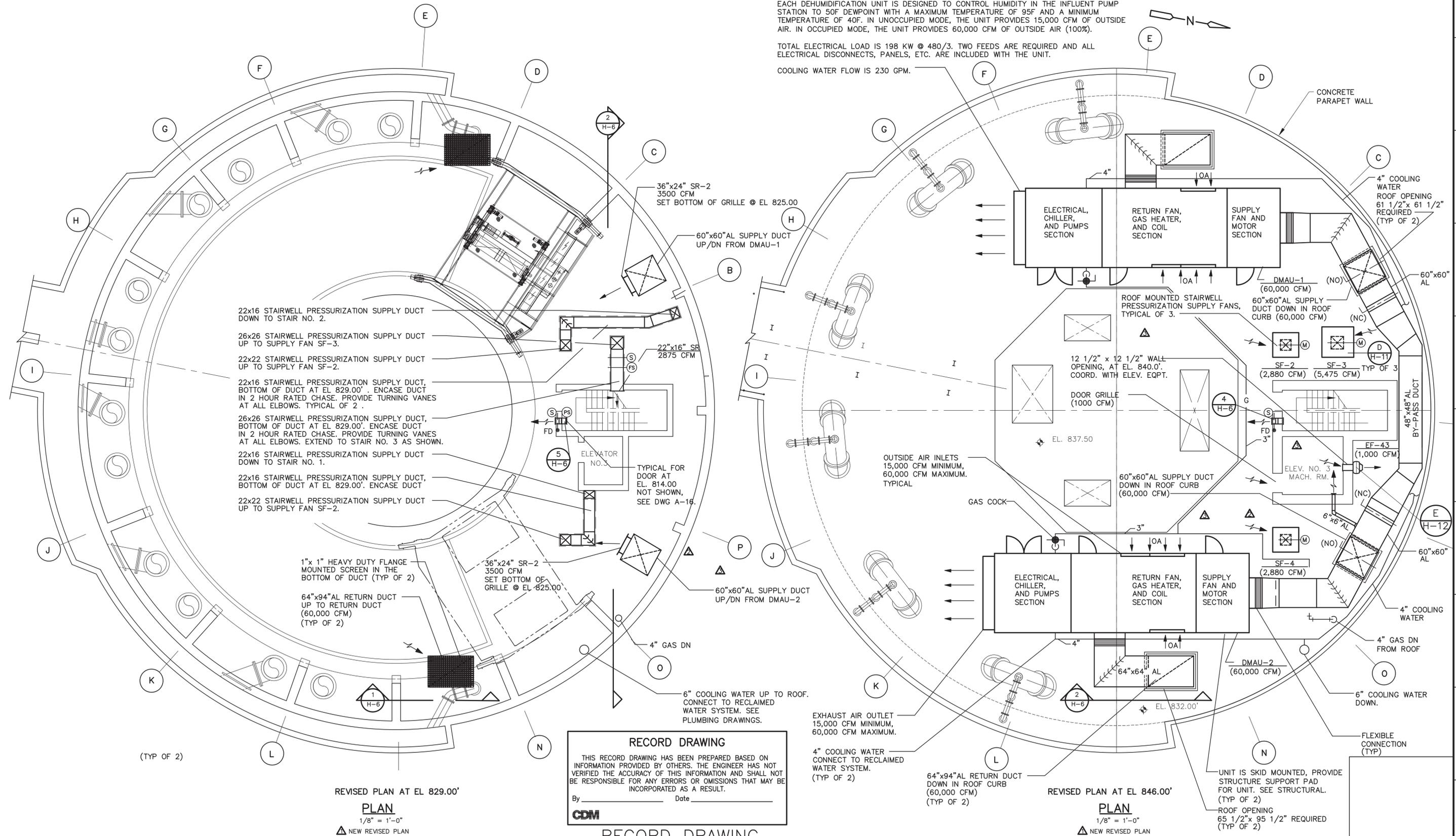
44'-0" LONG BY 13'-8" WIDE BY 12'-0" TALL MODULAR DEHUMIDIFICATION UNIT. MAXIMUM UNIT WEIGHT 40,000 POUNDS. UNIT IS SKID MOUNTED. UNIT IS CUSTOM MANUFACTURED FROM STANDARD COMPONENTS AND EQUIPMENT.

EACH DEHUMIDIFICATION UNIT IS DESIGNED TO CONTROL HUMIDITY IN THE INFLUENT PUMP STATION TO 50F DEWPOINT WITH A MAXIMUM TEMPERATURE OF 95F AND A MINIMUM TEMPERATURE OF 40F. IN UNOCCUPIED MODE, THE UNIT PROVIDES 15,000 CFM OF OUTSIDE AIR. IN OCCUPIED MODE, THE UNIT PROVIDES 60,000 CFM OF OUTSIDE AIR (100%).

TOTAL ELECTRICAL LOAD IS 198 KW @ 480/3. TWO FEEDS ARE REQUIRED AND ALL ELECTRICAL DISCONNECTS, PANELS, ETC. ARE INCLUDED WITH THE UNIT.

COOLING WATER FLOW IS 230 GPM.

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2" - SCALE ACCORDINGLY)



- 22x16 STAIRWELL PRESSURIZATION SUPPLY DUCT DOWN TO STAIR NO. 2.
- 26x26 STAIRWELL PRESSURIZATION SUPPLY DUCT UP TO SUPPLY FAN SF-3.
- 22x22 STAIRWELL PRESSURIZATION SUPPLY DUCT UP TO SUPPLY FAN SF-2.
- 22x16 STAIRWELL PRESSURIZATION SUPPLY DUCT, BOTTOM OF DUCT AT EL 829.00'. ENCASE DUCT IN 2 HOUR RATED CHASE. PROVIDE TURNING VANES AT ALL ELBOWS. TYPICAL OF 2.
- 26x26 STAIRWELL PRESSURIZATION SUPPLY DUCT, BOTTOM OF DUCT AT EL 829.00'. ENCASE DUCT IN 2 HOUR RATED CHASE. PROVIDE TURNING VANES AT ALL ELBOWS. EXTEND TO STAIR NO. 3 AS SHOWN.
- 22x16 STAIRWELL PRESSURIZATION SUPPLY DUCT DOWN TO STAIR NO. 1.
- 22x16 STAIRWELL PRESSURIZATION SUPPLY DUCT, BOTTOM OF DUCT AT EL 829.00'. ENCASE DUCT
- 22x22 STAIRWELL PRESSURIZATION SUPPLY DUCT UP TO SUPPLY FAN SF-2.

RECORD DRAWING
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 By _____ Date _____
CDM

RECORD DRAWING

REVISED PLAN AT EL 829.00'
PLAN
 1/8" = 1'-0"
 ▲ NEW REVISED PLAN

REVISED PLAN AT EL 846.00'
PLAN
 1/8" = 1'-0"
 ▲ NEW REVISED PLAN

Xref's: [] Images: [] File name: 0:\2824_24429\LIQUID\Record\HVAC_24429H5AR1.dwg Last saved by: MEINIGUH Time: 10/19/2007 8:59:40 AM

REV. NO.	DATE	DRWN	CHKD	REMARKS
7/06		RJH	PAP	RECORD DRAWING
12/02		WRH	WRH	DESIGNER CLARIFICATION NO. LPR-0371 STAIRWELL PRESSURIZATION MODIFICATIONS
6/02		WRH	WRH	DESIGNER CLARIFICATION NO. LPR-0232 MODIFICATIONS
6/02		WRH	WRH	DEHUMIDIFICATION UNIT ADDITION AND MODIFICATIONS
5/01		PAP	MER	CONFORMED DOCUMENTS

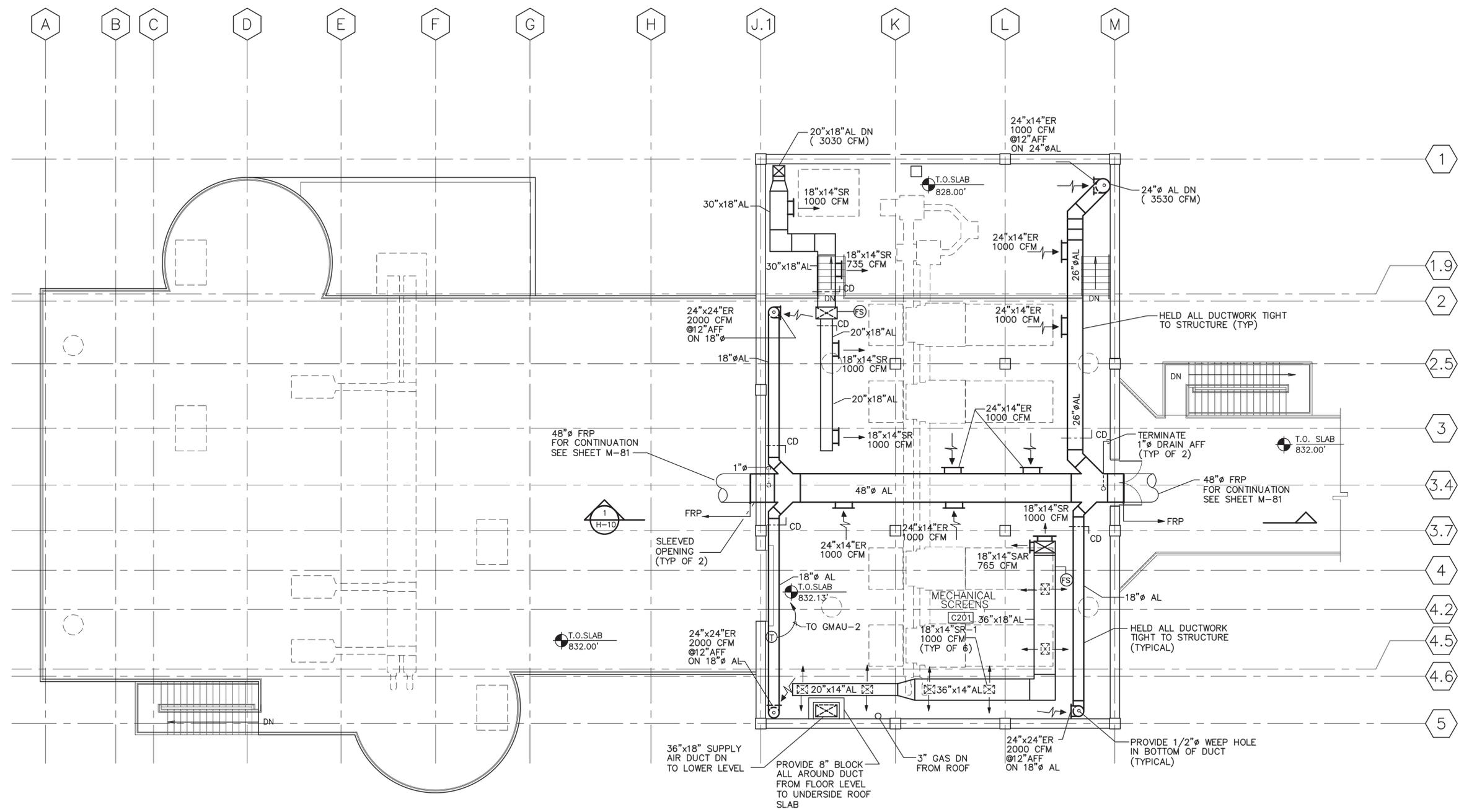
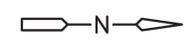
DESIGNED BY: W. HAYGOOD
 DRAWN BY: B. AMBROGGIO
 SHEET CHK'D BY: W. HAYGOOD
 CROSS CHK'D BY: J. MILLS
 APPROVED BY: W. HAYGOOD
 DATE: JANUARY 2001

CDM Camp Dresser & McKee Inc.
 consulting engineering construction operations

R. L. SUTTON WATER RECLAMATION FACILITY
 COBB COUNTY WATER SYSTEM, GEORGIA
 R.L. SUTTON WRF REPLACEMENT

PROJECT NO. T-2502
 FILE NAME: 24429H5AR1
 SHEET NO. H-5A
INFLUENT LIFT STATION
 REVISED PLANS @ EL 829.00' & EL 846.00'

LINE IS 2 INCHES AT FULL SIZE
(IF NOT 2" - SCALE ACCORDINGLY)



SECOND LEVEL
PLAN
1/8" = 1'-0"

RECORD DRAWING
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By _____ Date _____
CDM

RECORD DRAWING

7/06	RJH	PAP	RECORD DRAWING
5/01	PAP	MER	CONFORMED DOCUMENTS
REV. NO.	DATE	DRWN	CHKD
			REMARKS

DESIGNED BY: A. MALHOTRA
DRAWN BY: D. SANGWORN
SHEET CHK'D BY: MALHOTRA
CROSS CHK'D BY: J. MILLS
APPROVED BY: J. JACOBS
DATE: JANUARY 2001

CDM Camp Dresser & McKee Inc.
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R. L. SUTTON WATER RECLAMATION FACILITY
COBB COUNTY WATER SYSTEM, GEORGIA
R.L. SUTTON WRF REPLACEMENT

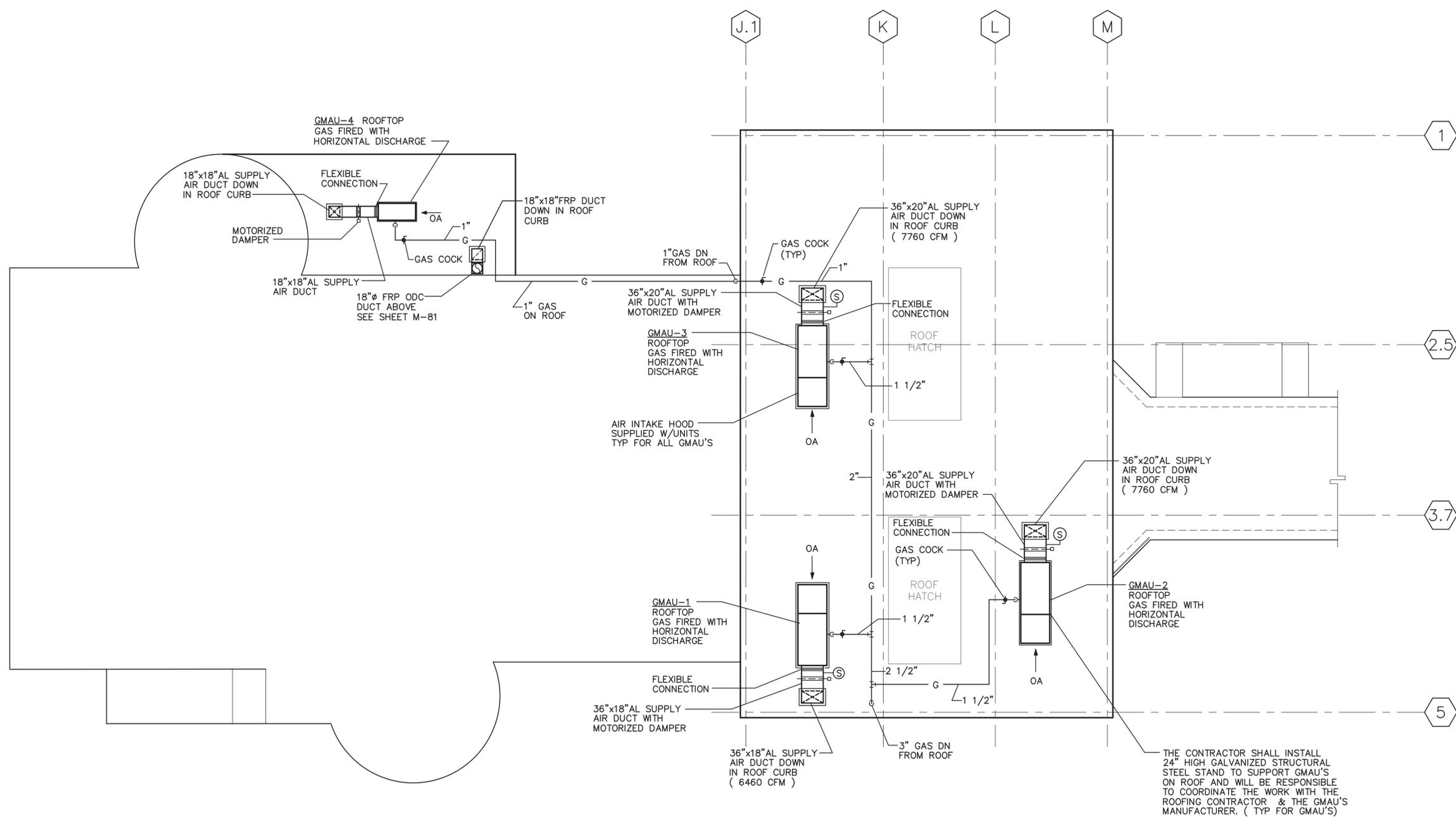
HEADWORKS
SECOND LEVEL FLOOR PLAN - HVAC

PROJECT NO.	T-2502
FILE NAME:	24429H8
SHEET NO.	H-8

06/12/01 08:45:47 6:27:16 24429H8



LINE IS 2 INCHES AT FULL SIZE
(IF NOT 2" - SCALE ACCORDINGLY)



ROOF PLAN
1/8" = 1'-0"

RECORD DRAWING

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By _____ Date _____

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RECORD DRAWING

7/06	RJH	PAP	RECORD DRAWING
5/01	PAP	MER	CONFORMED DOCUMENTS
REV. NO.	DATE	DRWN	CHKD
			REMARKS

DESIGNED BY: A. MALHOTRA
 DRAWN BY: D. SANGWORN
 SHEET CHK'D BY: MALHOTRA
 CROSS CHK'D BY: J. MILLS
 APPROVED BY: J. JACOBS
 DATE: JANUARY 2001

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R. L. SUTTON WATER RECLAMATION FACILITY
 COBB COUNTY WATER SYSTEM, GEORGIA

R.L. SUTTON WRF REPLACEMENT

HEADWORKS
 ROOF PLAN -HVAC

PROJECT NO.	T-2502
FILE NAME:	24429H9
SHEET NO.	H-9

06/12/01 08:44:00
21:10:07
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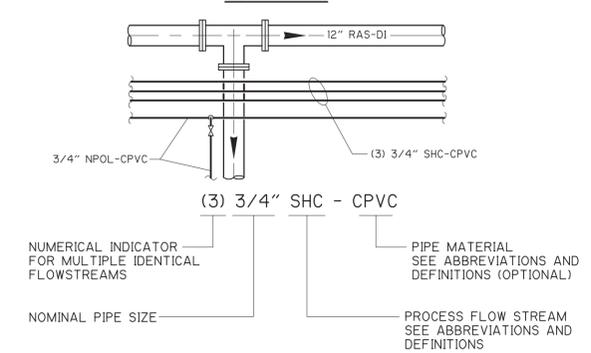
PIPING SYMBOLS

DOUBLE LINE SYMBOL	SINGLE LINE SYMBOL	FEATURE
		PLAIN END x PLAIN END PIPE COUPLING
		PLAIN END x PLAIN END PIPE COUPLING RESTRAINED
		FLANGE x PLAIN END PIPE COUPLING
		FLEXIBLE COUPLING OR EXPANSION JOINT (SLEEVE TYPE)
		FLEXIBLE COUPLING OR EXPANSION JOINT (BELLOWS TYPE)
		COUPLINGS FOR GROOVED END JOINTS: (F) FLEXIBLE (R) RIGID
		FLANGE GUARD
		FLANGE FILLER
		UNION
		QUICK CONNECT COUPLING
		HOSE COUPLING
		WELDED JOINT
		FLANGED JOINT SIMPLIFIED REPRESENTATION.
		FLANGED JOINT COMPLEX REPRESENTATION.
		MECHANICAL JOINT SIMPLIFIED REPRESENTATION.
		MECHANICAL JOINT COMPLEX REPRESENTATION.
		MECHANICAL JOINT RESTRAINED
		PUSH ON JOINT OR CAULKED BELL & SPIGOT JOINT SIMPLIFIED REPRESENTATION
		PUSH ON JOINT OR CAULKED BELL & SPIGOT JOINT COMPLEX REPRESENTATION
		PUSH ON JOINT OR CAULKED BELL & SPIGOT JOINT RESTRAINED
		BALL JOINT
		DIRECTION OF FLOW

PIPE AND FITTING SYMBOL NOTES

- SIMPLIFIED JOINT SYMBOL IS USED FOR ALL SINGLE LINE PIPING SHOWN ON THE INTERIOR AND EXTERIOR PIPING DRAWINGS.
- BOTH SIMPLIFIED AND COMPLEX JOINT REPRESENTATIONS MAY BE SHOWN ON THE DRAWINGS.
- UNLESS MODIFIED BY THE GENERAL PROJECT NOTES OR DETAILED ON THE LAYOUT AND SCHEMATIC DRAWINGS PIPE AND FITTING JOINT REQUIREMENTS FOR THE VARIOUS PIPE MATERIALS ARE DEFINED IN THE SPECIFICATIONS.

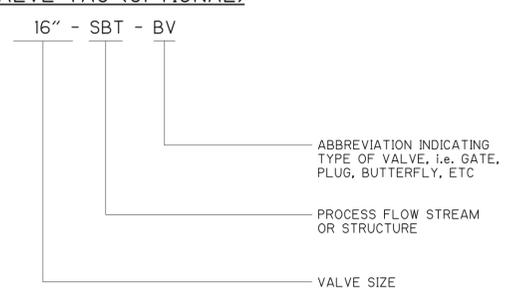
PIPE TAG



VALVE SYMBOLS

SYMBOL	FEATURE
	UNCLASSIFIED, TYPE AS SHOWN ON THE DRAWINGS ADJACENT TO SYMBOL
	FLOW METER
	TELESCOPING VALVE
	VALVE WITH HOSE END
	GATE VALVE
	KNIFE GATE VALVE
	GLOBE VALVE
	BALL VALVE
	3-WAY BALL VALVE
	4-WAY BALL VALVE
	CONE VALVE
	NEEDLE VALVE
	PINCH VALVE
	DIAPHRAGM VALVE
	BUTTERFLY VALVE
	PLUG VALVE
	3-WAY PLUG VALVE
	4-WAY PLUG VALVE
	SWING CHECK VALVE (UNO), GENERAL SYMBOL
	BALL CHECK VALVE
	DOUBLE DOOR CHECK VALVE
	ANGLE VALVE
	SOLENOID VALVE
	THREE WAY SOLENOID VALVE
	MOTOR OPERATED VALVE
	FLAP VALVE
	SHEAR GATE
	MUD VALVE
	FLOOR DRAIN
	OPEN EQUIPMENT DRAIN
	ECCENTRIC REDUCER OR REDUCING BUSHING
	CONCENTRIC REDUCER OR REDUCING BUSHING
	Y-STRAINER
	CALIBRATION CYLINDER
	AIR RELEASE VALVE

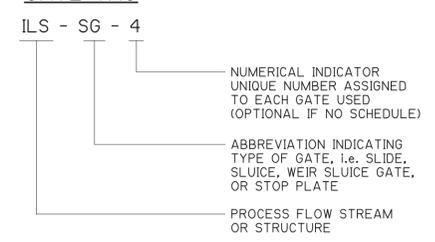
VALVE TAG (OPTIONAL)



GATE SYMBOLS

PLAN	FEATURE
	SLUICE GATE (SLU)
	SLIDE GATE (SL)
	SLIDE GATE W/ MOTOR OPERATOR
	STOP PLATE (SP)

GATE TAG



ABBREVIATIONS

PIPING MATERIALS	
ABC	ASBESTOS CEMENT
ABS	ACRYLONITRILE-BUTADIENE-STYRENE
CI	CAST IRON
CM	CORRUGATED METAL
CPVC	CHLORINATED POLYVINYLCHLORIDE PIPE
CU	COPPER
DI	DUCTILE IRON
FRP	FIBERGLASS REINFORCED PLASTIC
GALVS	GALVANIZED STEEL
HDPE	HIGH DENSITY POLYETHYLENE
MHS	METAL HOSE
PCCP	PRESSURE CONCRETE CYLINDER PIPE
POLYP	POLYPROPYLENE
PVC	POLYVINYL CHLORIDE
RC	REINFORCED CONCRETE
RH	RUBBER HOSE
SSL	STAINLESS STEEL

VALVE NOMENCLATURE

ACCV	AIR CUSHION CHECK VALVE	INSTR	INSTRUMENT (TATION)
ARV	AIR RELEASE VALVE	KGV	KNIFE GATE VALVE
BCV	BALL CHECK VALVE	LPV	LUBRICATED PLUG VALVE
BFV	BUTTERFLY VALVE	MJ	MECHANICAL JOINT
BPRV	BACK PRESSURE REGULATING VALVE	MV	MUD VALVE
BV	BALL VALVE	PBAV	PLASTIC BALL VALVE
COMP JT	COMPRESSION JOINT	PCV	PRESSURE CONTROL VALVE
CV-A	CHECK VALVE (AIR CUSHION)	PE	PLAIN END
CV-H	CHECK VALVE (HYDRAULIC CUSHION)	POJ	PUSH ON JOINT
DV	DIAPHRAGM VALVE	PRV	PRESSURE RELIEF VALVE
ED-F	EQUIPMENT DRAIN (FLUSH TYPE)	PV	PLUG VALVE
ED-O	EQUIPMENT DRAIN (EXTENDED TYPE-OPEN)	PVRV	PRESSURE VACUUM RELIEF VALVE
ED-S	EQUIPMENT DRAIN (EXTENDED TYPE-SEALED)	RJ	RESTRAINED JOINT
EGO	ELEVATED GEAR OPERATOR	SCV	SILENT CHECK VALVE
EVA	ELECTRICAL GEAR ACTUATOR	SJ	SOLDERED JOINT
EXP JT	EXPANSION JOINT	SOLV	SOLENOID VALVE
FAC	FLANGED ADAPTOR COUPLING	THD	THREADED
FB	FLOOR BOX (BUSHING TYPE)	TUBV	TIME UNION BALL VALVE
FH	FIRE HYDRANT	UN	UNION
FS	FLOOR STAND	VC	VALVE BOX
GOV	GLOBE VALVE	VC	VICTAULIC COUPLING (SHOULDERED ENDS)
GV	GATE VALVE	WAP	WALL PIPE
HFAC	HARNESSED FLANGED ADAPTOR COUPLING	WJ	WELDED JOINT
HVA	HYDRAULIC VALVE ACTUATOR	WSP	WELDED PIPE
		WSV	WALL SLEEVE

EQUIPMENT NOMENCLATURE

ABA	AEROBIC BASIN AERATOR	PAB	PROCESS AERATION BLOWERS
BP	BOOSTER PUMP	PAC	PLANT AIR COMPRESSOR
CCP	CAUSTIC CIRCULATION PUMPS	PEP	PLANT EFFLUENT PUMP
CCS	CHLORINE CYLINDER SCALE	PFU	POLYMER FEED UNIT
CDM	CLARIFIER DRIVE MECHANISMS	PGC	PISTA GRIT CHAMBERS
CHL	CHLORINATOR	PSE	NEUMATIC SCUM EJECTORS
CSMP	CAUSTIC METERING PUMPS	PSP	PLANT SITE PUMP
EMG	EMERGENCY GENERATOR	PTP	POLYMER TRANSFER PUMP
ESP	EFFLUENT SAMPLE PUMPS	PWM	POTABLE WATER METER
FAM	FIRST ANOXIC MIXERS	ROT	ROTAMETER
FLM	FLASH MIXER	RSM	RETURN ACTIVATED SLUDGE METER
GCR	GRIT CONCENTRATOR	RSP	RETURN ACTIVATED SLUDGE PUMPS
GRG	GRIT REMOVAL CHAMBER	SCB	SCREENING CONVEYOR BELT
GRP	GRIT REMOVAL PUMPS	SFP	SLUDGE FEED PUMP
GSC	GRIT SCREEN	SGR	SLUDGE GRINDER
IFM	INFLUENT FLOW METERS	SMPP	SUMP PUMPS
IRP	INTERNAL RECYCLE PUMPS	VA-H	HYDRAULIC VALVE OPERATOR
IRP	INTERNAL RECYCLE PUMPS	VA-M	MOTOR VALVE OPERATOR
MBS	MANUAL BAR SCREEN	VA-P	PNEUMATIC VALVE OPERATOR
MEW	MOTORIZED EFFLUENT WEIRS	VA-S	SOLENOID VALVE OPERATOR
MIS	MECHANICAL INFLUENT SCREEN	WSM	WASTE ACTIVATED SLUDGE METER
MSG	MOTORIZED SLUICE GATES	WSP	WASTE ACTIVATED SLUDGE PUMPS
OCB	ODOR CONTROL BLOWER	WWP	WASHWATER PUMPS
OCS	ODOR CONTROL SCRUBBER	EFM	EFFLUENT FLOW METER
OPER	OPERATOR		

PROCESS FLOW STREAM ABBREVIATIONS

* SUBSTANCE OR SERVICE	ABBREVIATION
AERATION BASIN EFFLUENT	ABE
CHLORINATED POLYVINYL CHLORIDE	CPVC
DIESEL FUEL	DIESEL
DRAIN	D
FILTER BACKWASH	FBW
FILTER EFFLUENT	FEF
FILTER INFLUENT	FI
FINAL EFFLUENT	EFF
GRIT	GRIT
INSTRUMENT AIR	IA
IRON SALTS	IRON
LIME	LIME
MIXED LIQUOR	ML
NON-POTABLE WATER	NPW
OVERFLOW	OVF
PLANT AIR	PLA
PLANT REUSE WATER	PLW
POLYMER	POLY
POTABLE WATER	PW
PRIMARY CLARIFIER EFFLUENT	PCE
PRIMARY SCUM	PSC
PRIMARY SLUDGE	PSL
PROCESS AIR	AIR
RAW WASTEWATER	RWW
RECYCLED WATER	REC
RETURN ACTIVATED SLUDGE	RAS
SCUM	SCUM
SECONDARY CLARIFIER EFFLUENT	SCE
SECONDARY SCUM	SSC
SODIUM BISULFITE	SBS
SODIUM HYDROXIDE (CAUSTIC)	NAOH
SODIUM HYPOCHLORITE	SCH
SODIUM HYPOCHLORITE DRAIN	SHD
SUMP PUMP DISCHARGE	SPD
UV EFFLUENT	UVEFF
VENT	VT
WASTE ACTIVATED SLUDGE	WAS
WASTE BACKWASH WATER	WBW

RECORD DRAWING

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By _____ Date _____

CDM

GEORGIA

REGISTERED

No. 23165

PROFESSIONAL

ENGINEER

JEFFREY A. MILLS

REV. NO.	DATE	DRWN	CHKD	REMARKS
6/05	DMR	JAM		RECORD DRAWING

DESIGNED BY: D. RIDGEWELL

DRAWN BY: D. RIDGEWELL

SHEET CHK'D BY: J. HILL

CROSS CHK'D BY: J. MILLS

APPROVED BY: J. MILLS

DATE: JANUARY 2001

CDM Camp Dresser & McKee Inc.

R. L. SUTTON WATER RECLAMATION FACILITY
COBB COUNTY WATER SYSTEM, GEORGIA

R. L. SUTTON WRF REPLACEMENT

PROJECT NO. T-2502

FILE NAME: 24429M01

SHEET NO. M-1

MECHANICAL LEGEND

PRE- BID CONFERENCE

SEALED BID #11 – 5577
 HVAC IMPROVEMENTS FOR R.L. SUTTON WRF
 COBB COUNTY WATER DEPARTMENT
 MAY 10, 2011

REPRESENTATIVE NAME	COMPANY NAME & COMPLETE ADDRESS	PHONE (INCLUDE AREA CODE)	FAX # (INCLUDE AREA CODE)	E-MAIL ADDRESS
Jeff Wix ✓	6805 Cobb Dr. CWS Marietta GA 30060	(770) 419-6218		jeffrey.wix@cobbcounty.org
Rick Jenkins ✓	BARDI MECHANICAL 2175 ROYAL PALM CT. NORCROSS GA 30071	770-263-9300	770-263-9400	PICKIE JENKINS@BARDI.COM
Rusty Clough ✓	Johnson Controls Inc. 1350 Northmeadow Pkwy Suite 100 Roswell Ga 30076	770-243-9131	770-663-1490	russell.h.clough@jci.com
Bobby Gordon ✓	" " "	70-294-6780		Bobby.L.Gordon@JCI.COM
Jay Stephens ✓	Galgon HVAC & Mech. Service	404-352-1500	404-352-1501	Jay@galgonhvac.com
JOHN FLOOD ✓	COBB COUNTY Purchasing	770-528-8418	770-528-1154	JOHN.FLOOD@COBBCOUNTY.ORG
Stephanie Brice ✓	Cobb County Purchasing	770-528-8439	770-528-8429	Stephanie.brice@cobbcounty.org
Tim Powers ✓	QT CONTRACTING DBA POWERS HTG & A/C	770-487-2040	678 364 1754	CHERRIE@CALLPOWERS.COM

PRE- BID CONFERENCE

SEALED BID #11 – 5577
 HVAC IMPROVEMENTS FOR R.L. SUTTON WRF
 COBB COUNTY WATER DEPARTMENT
 MAY 10, 2011

REPRESENTATIVE NAME	COMPANY NAME & COMPLETE ADDRESS	PHONE (INCLUDE AREA CODE)	FAX # (INCLUDE AREA CODE)	E-MAIL ADDRESS
MICHAEL LEVERETT	COBB Co WATER R.L. Sutton 5175 S. ATLANTA RD SMYRNA, GA 30080	(404) 609-6050	404) 355-2146	mike.leverett@cobbcounty.org
Bob Herbick ✓	CCWS	770-917-5194		rherbick@cobbcounty.org
Micheal Smith	CCWS	770 (404) 609-6050		micheal.smith@cobbcounty.org
Brian Clark ✓	CCWS	770-419-6484		Brian.Clark@cobbcounty.org
Dick Krause ✓	CCWS	770-581051		DKRAUSE@cobbcounty.org
Wendell Ryals ✓	John F. Pennebaker Co.	678 546 8858	678 546 8828	John Pennebaker @ John.Pennebaker.com
Stephen M. Healy ✓	Healy Transfer Systems Inc 333 North Kennesaw St. Atlanta GA 30099	7/475-7740	7/475-6167	SALU@COOLINGTOWER.NET
Will AMASON ✓	Dale Sims Inc 3370 West Hospital Ave Chamblee GA 30341	770-458-5550	770-458-0083	WAMASON@Dalesimsinc.com

