



### ADDENDUM NO. 4

Horizontal Collector Well Redevelopment Project Project B24-PW-108030-500434

DATED: DECEMBER 21, 2023

This Addendum No. 1 forms a part of the contract described above.

The following questions were received from bidders. The answers are provided herein by the OWNER:

Question: Is there a pre-bid site meeting scheduled?
 Answer: A pre-bid meeting is not scheduled for this project.

Question: Can the bid date be pushed to the middle of January?
 Answer: Due to the urgency of completing the work as soon as possible, the bid date cannot be delayed.

- 3. Question: Can the time of completion day be extended to end of July 2024?

  Answer: The well must be operational with one pump equivalent to those currently in the well by May 1. Well cleaning and other work may occur after this date but the well may be placed into service as a backup water supply at any time and the Contractor must maintain the well to be in operable condition within 8 hours of receiving written notice by the City.
- 4. **Question:** Can you provide detailed information for materials and construction on the pumping units?

**Answer:** Materials and construction of the pumping units are to be proposed by the Contractor based on supplier availability. Standard construction using cast iron bowls and bronze impellers would be found acceptable.

5. **Question:** *Is there factory testing on the pumps?* 

**Answer:** Factory testing is not a specified requirement.

6. Question: What size is the column pipe?

**Answer:** Column pipe size is to be proposed by the Contractor based on supplier availability. Column pipe size for the 4,000 gpm pump of 16-inch would be found acceptable. Column size for the 6,000 gpm pump of 20-inch would be found acceptable. Other sizes that are more readily available would be considered.

7. **Question:** What size are the discharge heads?

**Answer:** The as-built drawings for the Horizontal Collector Well are attached.

8. **Question:** *Is there a spec. on the new motors?* 

**Answer:** The motors are to be proposed by the Contractor based on supplier availability. Standard vertical motors sized to the required horsepower of the pump without exceeding the motor nameplate horsepower or using the motor service factor would be acceptable.

9. **Question:** Can more detailed drawing be provided?

**Answer:** The as-built drawings for the Horizontal Collector Well are attached.

10. Question: Part 2.0 of Section 00700 discusses the timing of the Notice to Proceed in relation to the Notice of Award for this project. In light of the bid date of January 2<sup>nd</sup> as well as the expedited work schedule, approximately when does the City anticipate the Notice of Award and Notice to Proceed will be issued? Answer: The City anticipates issuing the Notice of Award January 10, 2024. The hope is that the contract can be processed and signed by all in less than a week so the NTP can be issued January 15, 2024. 11. Question: Part 17.3 of Section 00700 specifies that the Contractor shall only work an (8) hour day consisting of Monday through Friday. Due to the expedited schedule and anticipated scope of work, can this work schedule be amended to allow extended work hours as well as weekend work?

**Answer:** The City recognizes that the area work site is in a non-residential area and with the knowledge that this is a high priority project with hard deadlines would allow extended work hours and weekend work as needed.

12. Question: Part 9.0.B of Section 00800 states that all power required for completion of the work shall be provided by the Contractor at his expense, yet Part 3.01.B of Section 33 21 13.7 states that electric power is available at the collector well for the Contractor's use. Please clarify if power is available for use by the Contractor on this project and, if so, please provide the voltage and phase of the available power.

**Answer:** Onsite power is available at the site for Contractor use within the existing Motor Control Center (MCC). The Contractor may utilize this power with a temporary connection to the MCC. Temporary power connections shall be in strict conformance with all applicable electrical codes, City standards, and good electrical practice. The existing MCC powers three 400 hp electric motors with 480 volt, 3-phase power. The as-built drawings for the Collector Well, including power diagrams are attached.

13. **Question:** Parts 3.10 and 3.14 of Section 33 21 13.7 require the collector well to be pumped for durations of 5 hours and 32 hours during pre and postmaintenance testing at rates of up to 5000 gpm. Is this test water to be pumped into the discharge area shown on Drawing G-1 of the project plans or can this test water be pumped to an alternate location designated by the City and better designed to accept this anticipated volume of water?

**Answer:** As specified, the discharge point is shown on the Drawings. Bidders shall prepare their bids to discharge water as specified. The successful Bidder may propose an alternative point of discharge following Award providing it is acceptable to the City, meets all specified discharge criteria, and complies with all Federal, State, and local regulations, codes, and requirements.



# LAKE HAVASU CITY - ARIZONA LONDON BRIDGE BEACH PUMP HOUSE PROJECT NO. W-183-00

**Contract Drawings** 

2000

97-777-1-002

APPROVE

CITY ENGINEER

DATE

ROBERT SCHULZ, P.E.

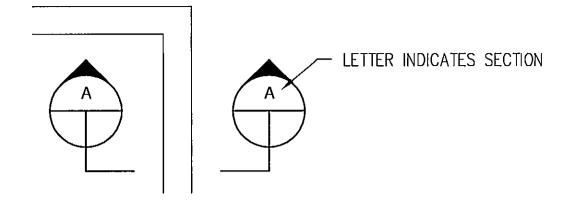
BURNS & McDONNELL ENGINEERING CO., INC.



'AS-BUILT"

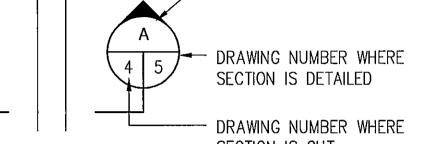




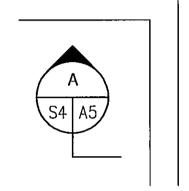


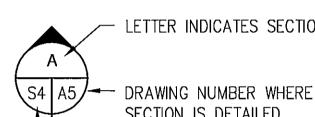
# Lake Havasu City, Arizona

LONDON BRIDGE BEACH PUMP HOUSE



SECTION CUT ON ONE DRAWING AND DRAWN ON ANOTHER DRAWING WITHIN THE SAME DISCIPLINE

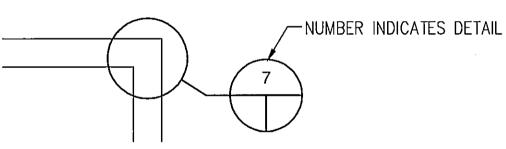




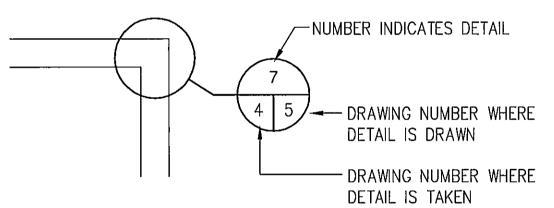
- DRAWING NUMBER WHERE

SECTION CUT ON DRAWING OF ONE DISCIPLINE AND

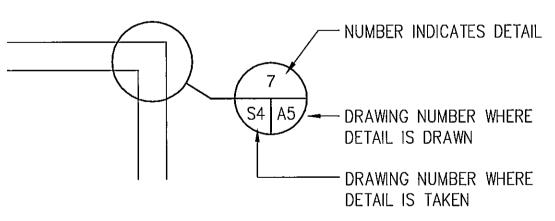
#### SECTION IDENTIFICATION



DETAIL TAKEN AND DRAWN ON SAME DRAWING.



DETAIL TAKEN ON ONE DRAWING AND DETAILED ON ANOTHER DRAWING WITHIN THE SAME DISCIPLINE.



DETAIL TAKEN ON DRAWING OF ONE DISCIPLINE AND DETAILED ON DRAWING OF ANOTHER DISCIPLINE.

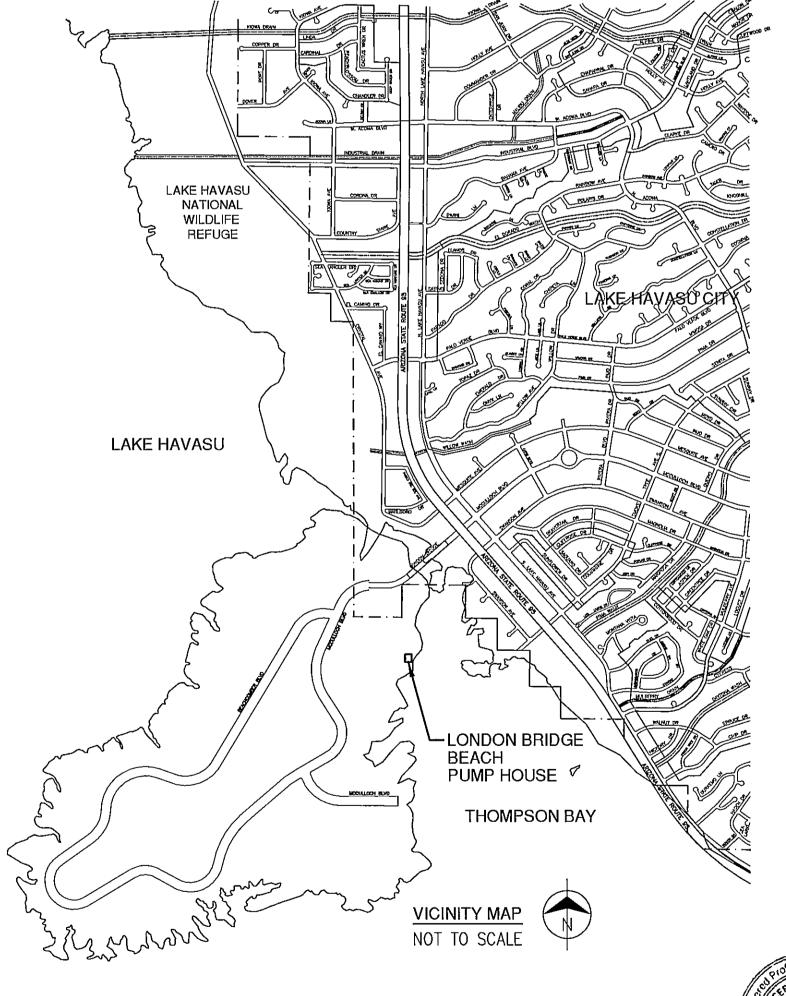
DETAIL IDENTIFICATION

SECTION AND DETAIL IDENTIFICATION SYSTEMS

## List of Contract Drawings

DRAWING NO.	TITLE TO THE TOTAL PROPERTY OF THE PROPERTY OF
	COVER
	INDEX
C1	SITE PLAN AND DETAILS
C2	EQUIPMENT LAYOUT
A1	SCREEN WALL - PLAN, ELEVATION AND DETAILS
<b>S</b> 1	STRUCTURAL LEGEND
S2	FOUNDATION PLAN AND DETAILS
S3	ROOF PLAN AND DETAILS
S4	DETAILS AND SECTIONS
P1	PROCESS LEGEND
P2	PARTIAL PLAN AND DETAILS
Р3	SECTIONS AND DETAILS
M1	MECHANICAL LEGEND
M2	HVAC AND PLUMBING FLOOR PLAN AND
–	HVAC CONTROL SEQUENCE OF OPERATION DIAGRAMS
М3	MISCELLANEOUS DETAILS AND SCHEDULES
E1	ELECTRICAL LEGEND
E2	ELECTRICAL ONE—LINE DIAGRAM
E3 E4	ELECTRICAL POWER PLAN ELECTRICAL LIGHTING, SAMLL POWER AND CONTROL PLAN
E5	PUMP CONTROL DIAGRAMS NO. 1
E6	PUMP CONTROL DIAGRAMS NO. 2
E7	PLC I/O WIRING DIAGRAMS AND MISC. DETAILS
•	•





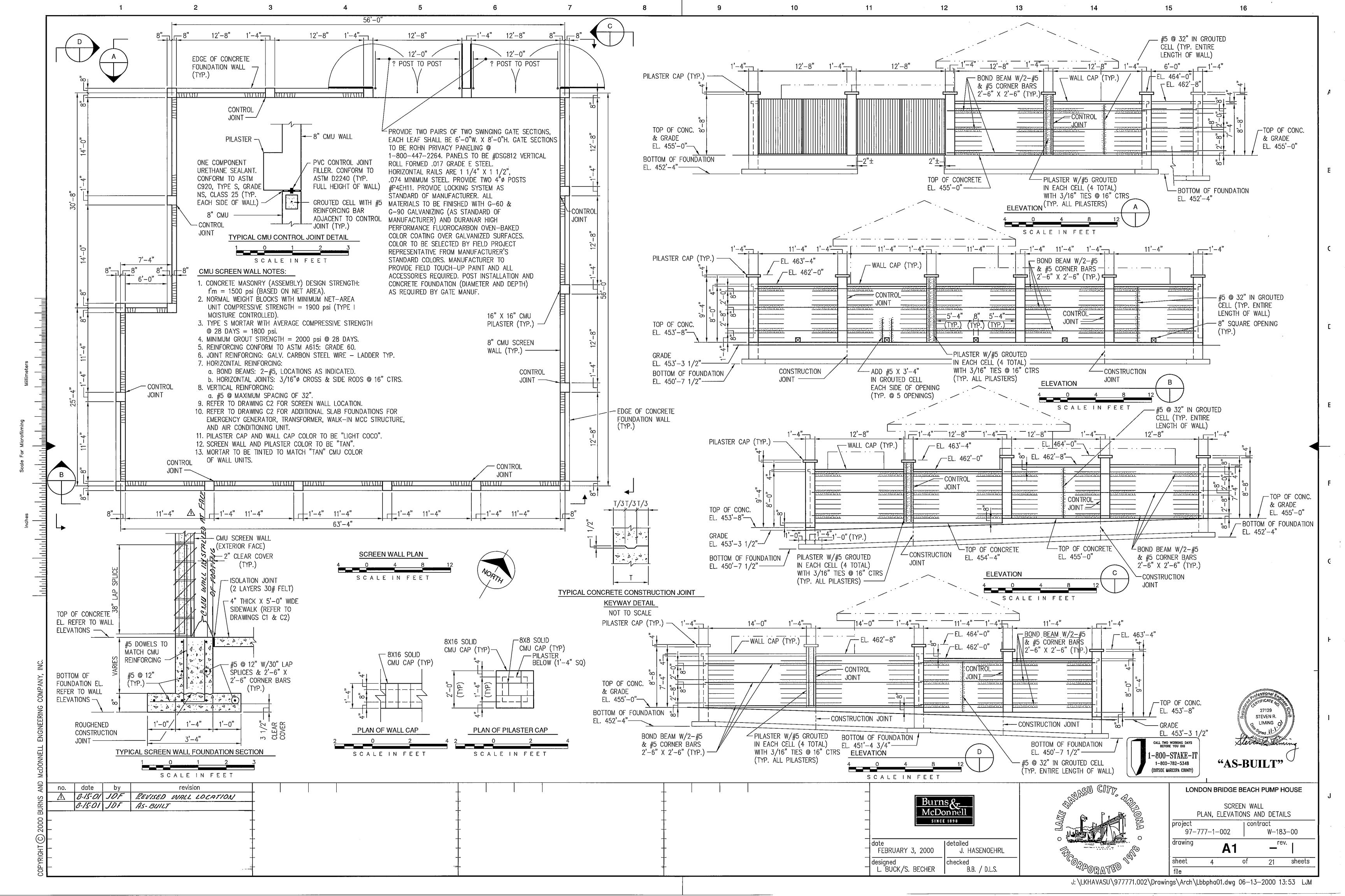
"AS-BUILT"

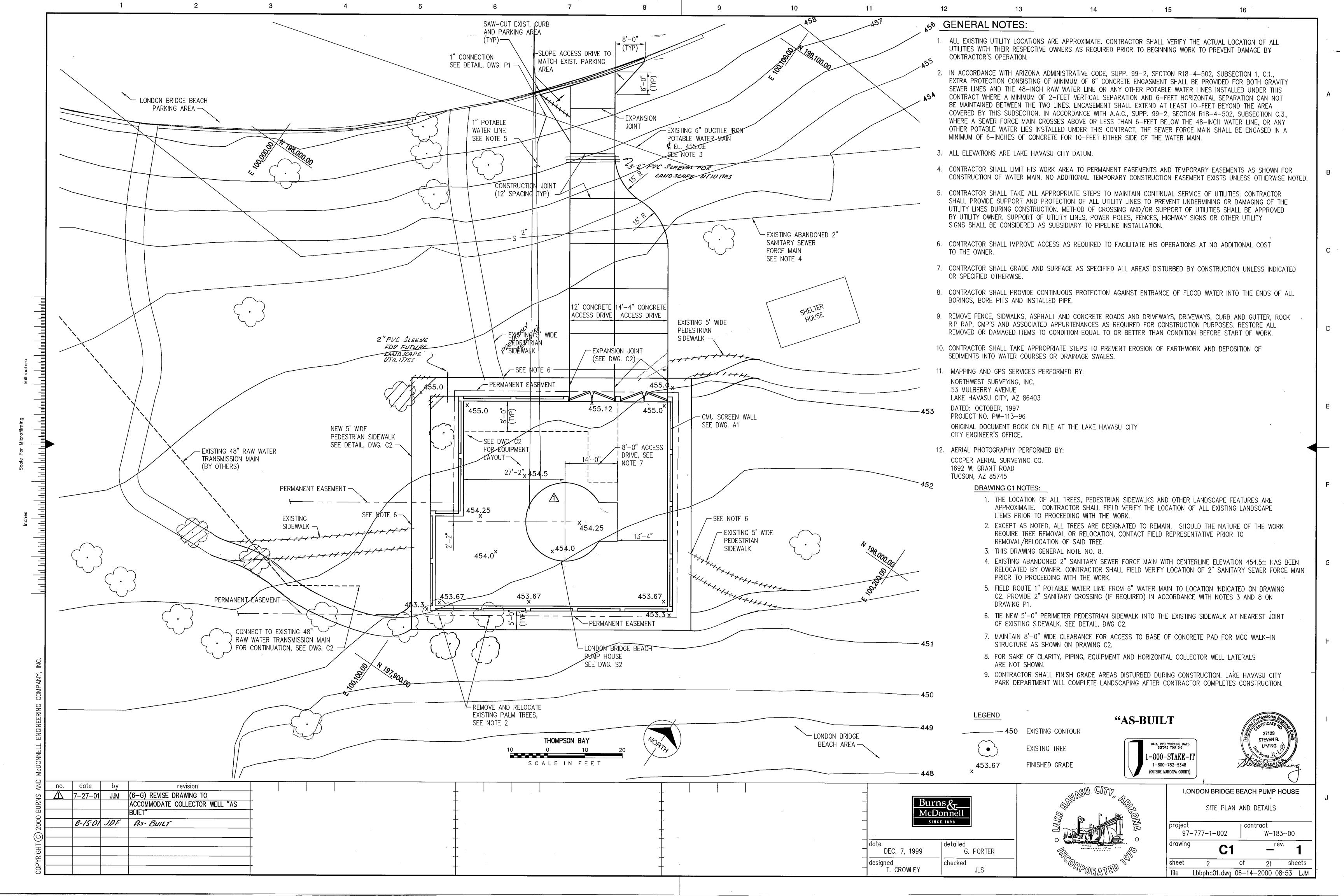


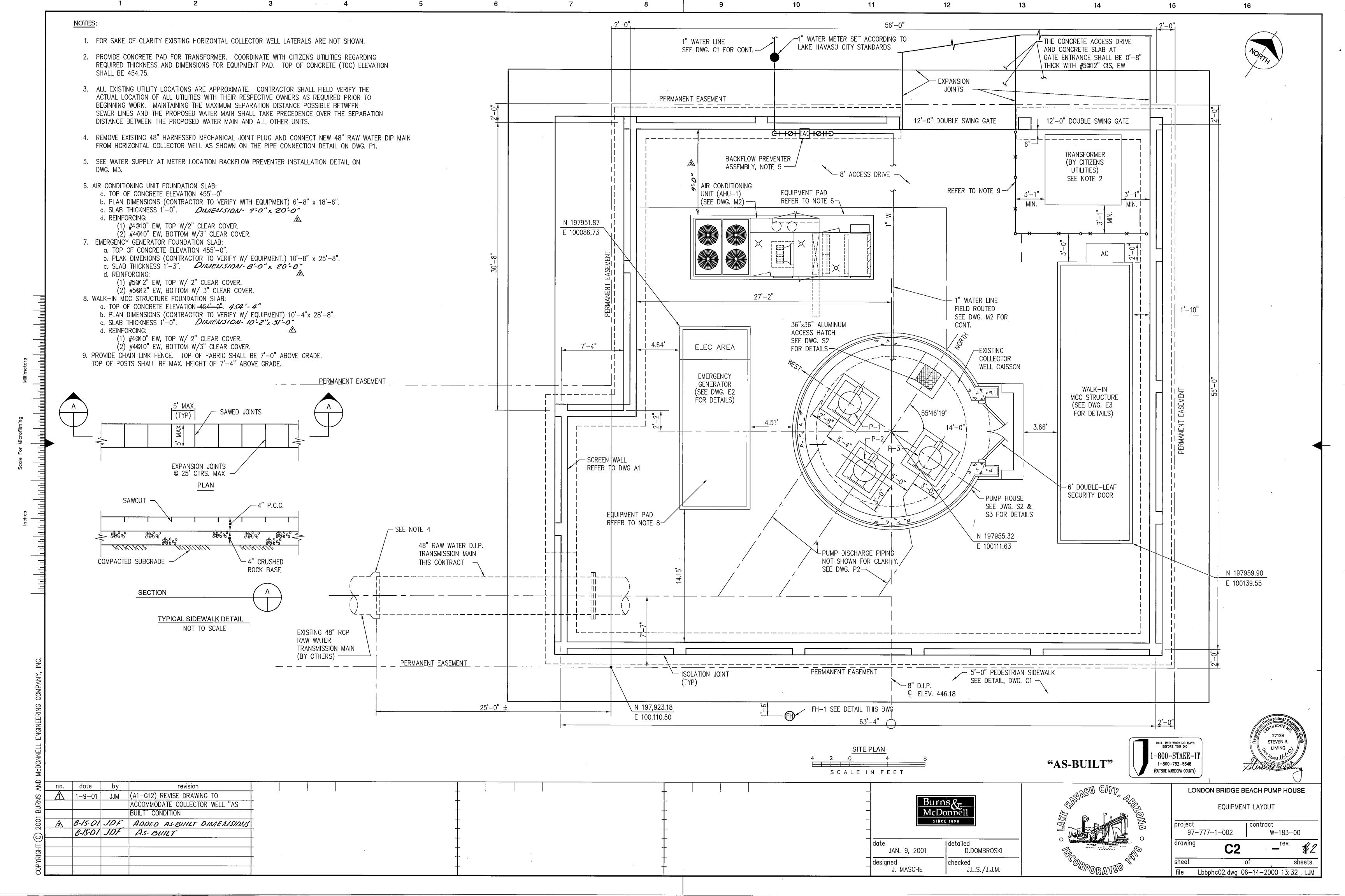


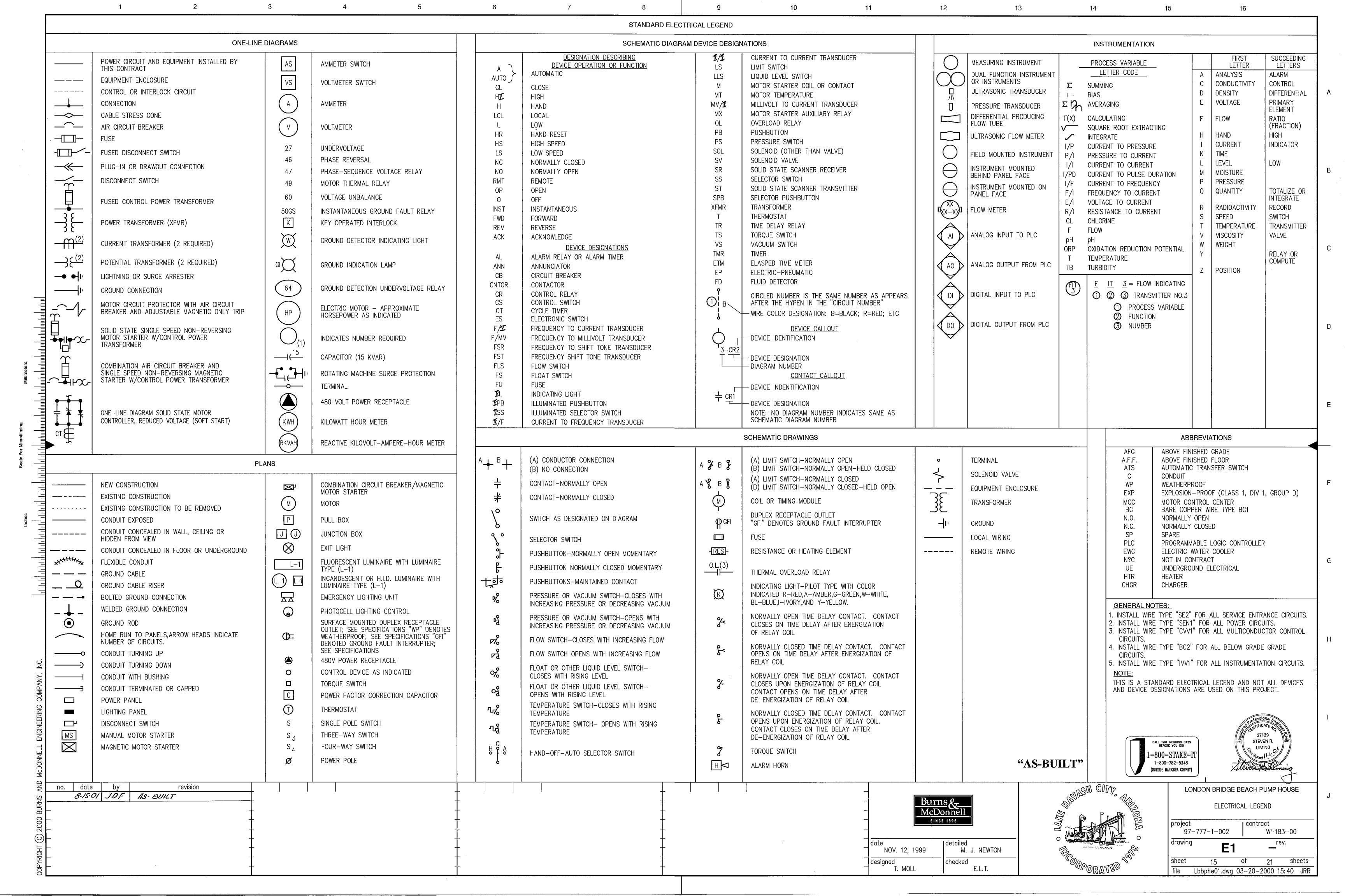


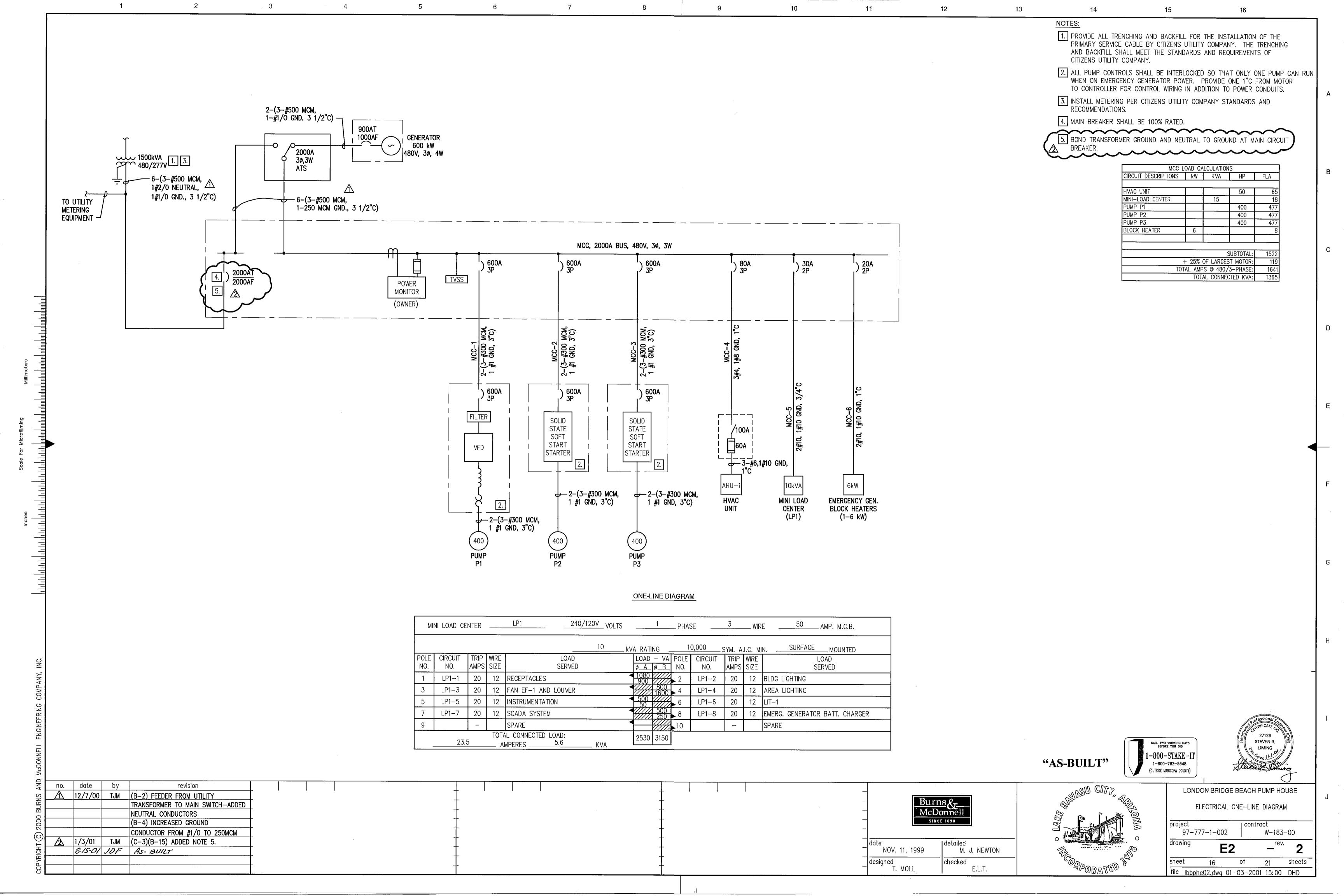
London Bridge Beach Pump House PROJECT NO: W-183-00

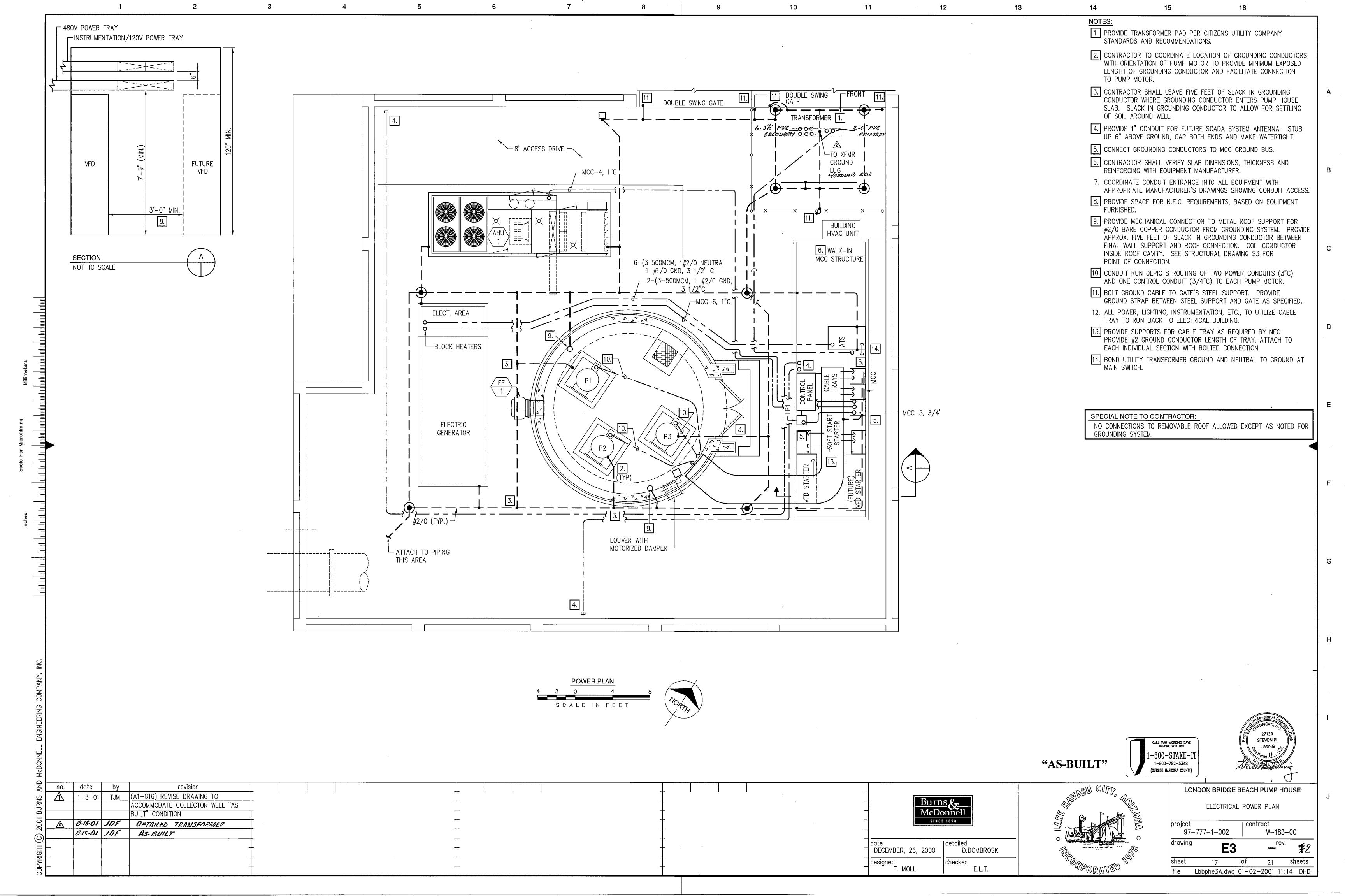


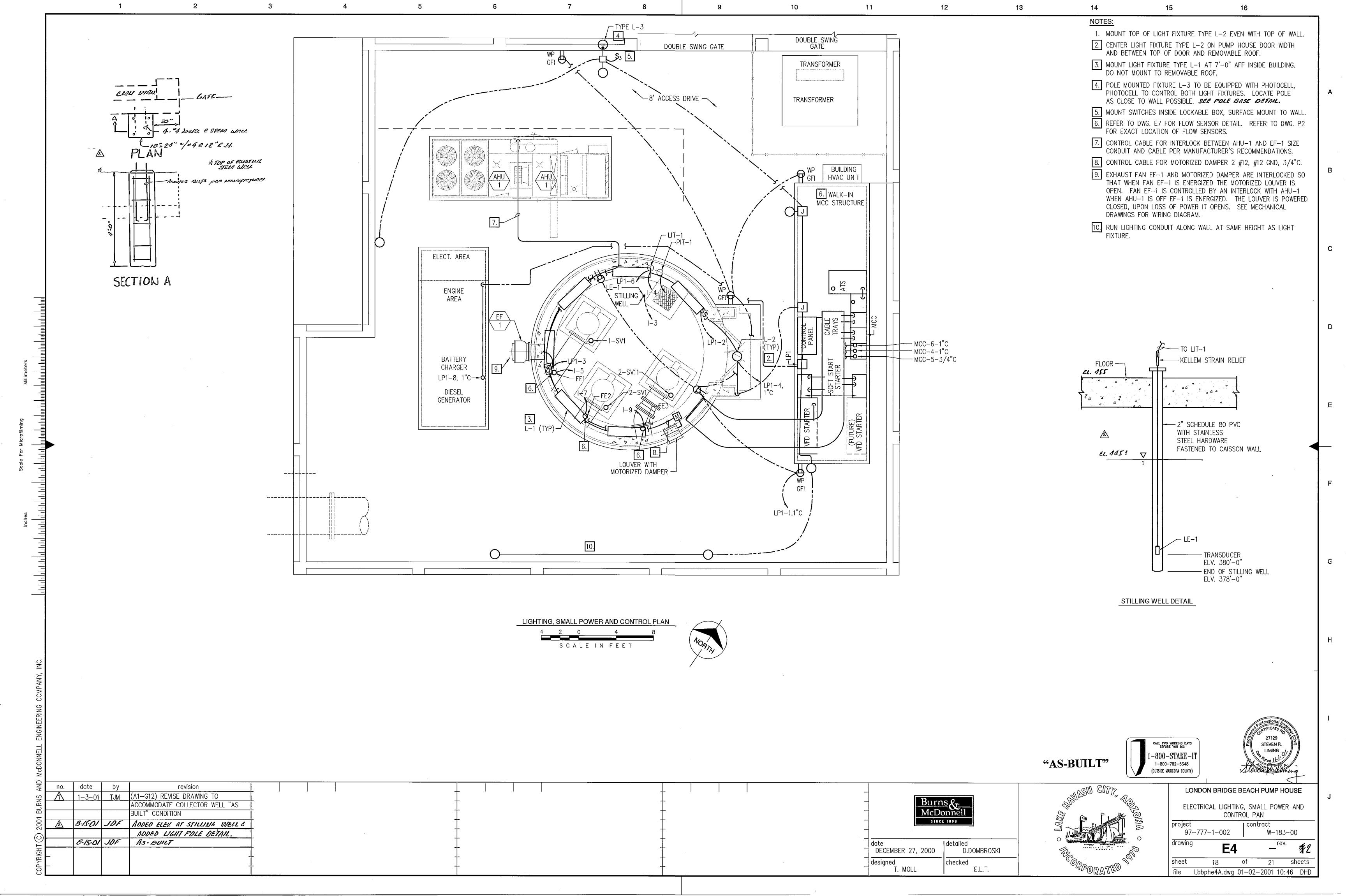


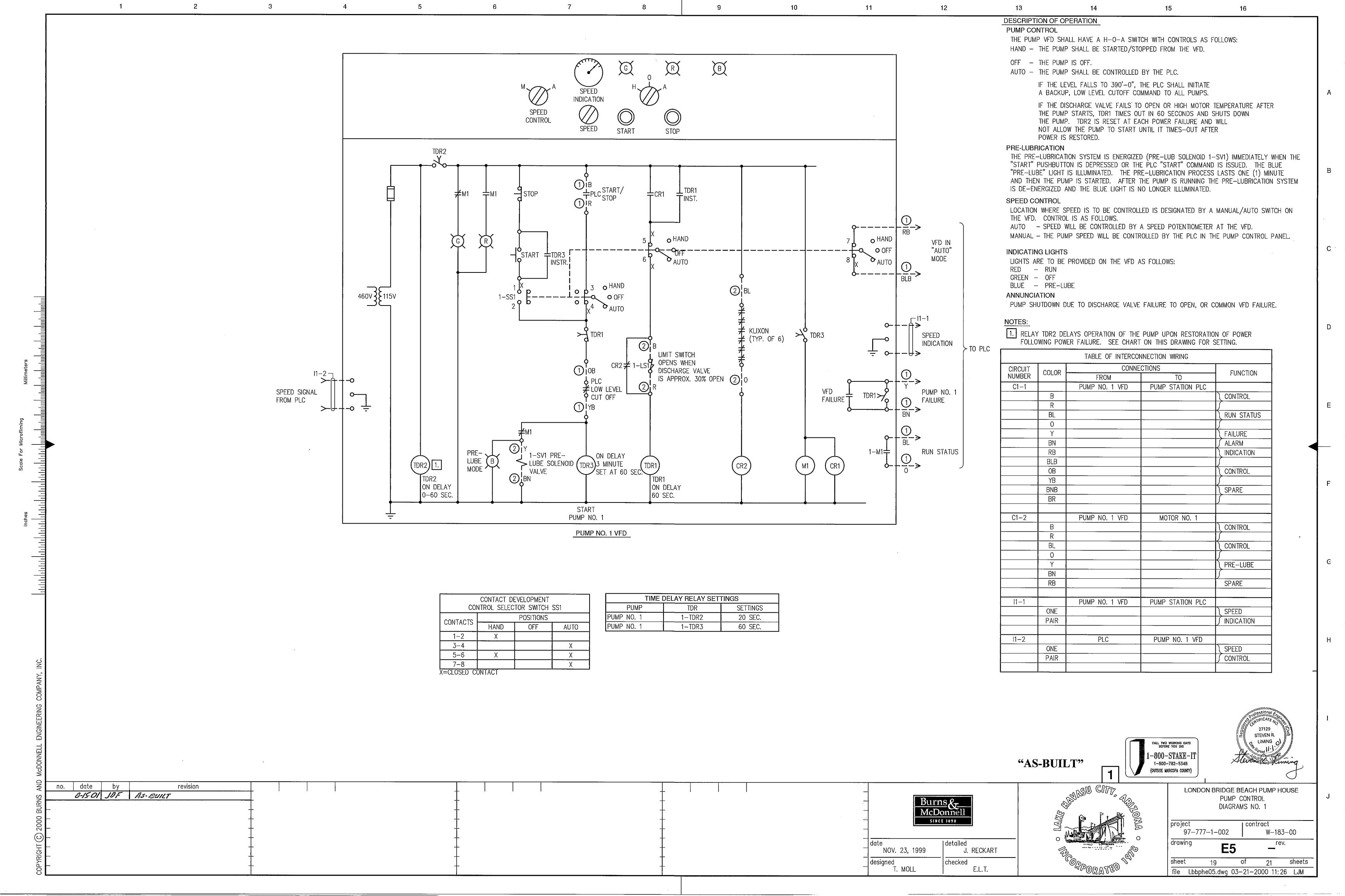


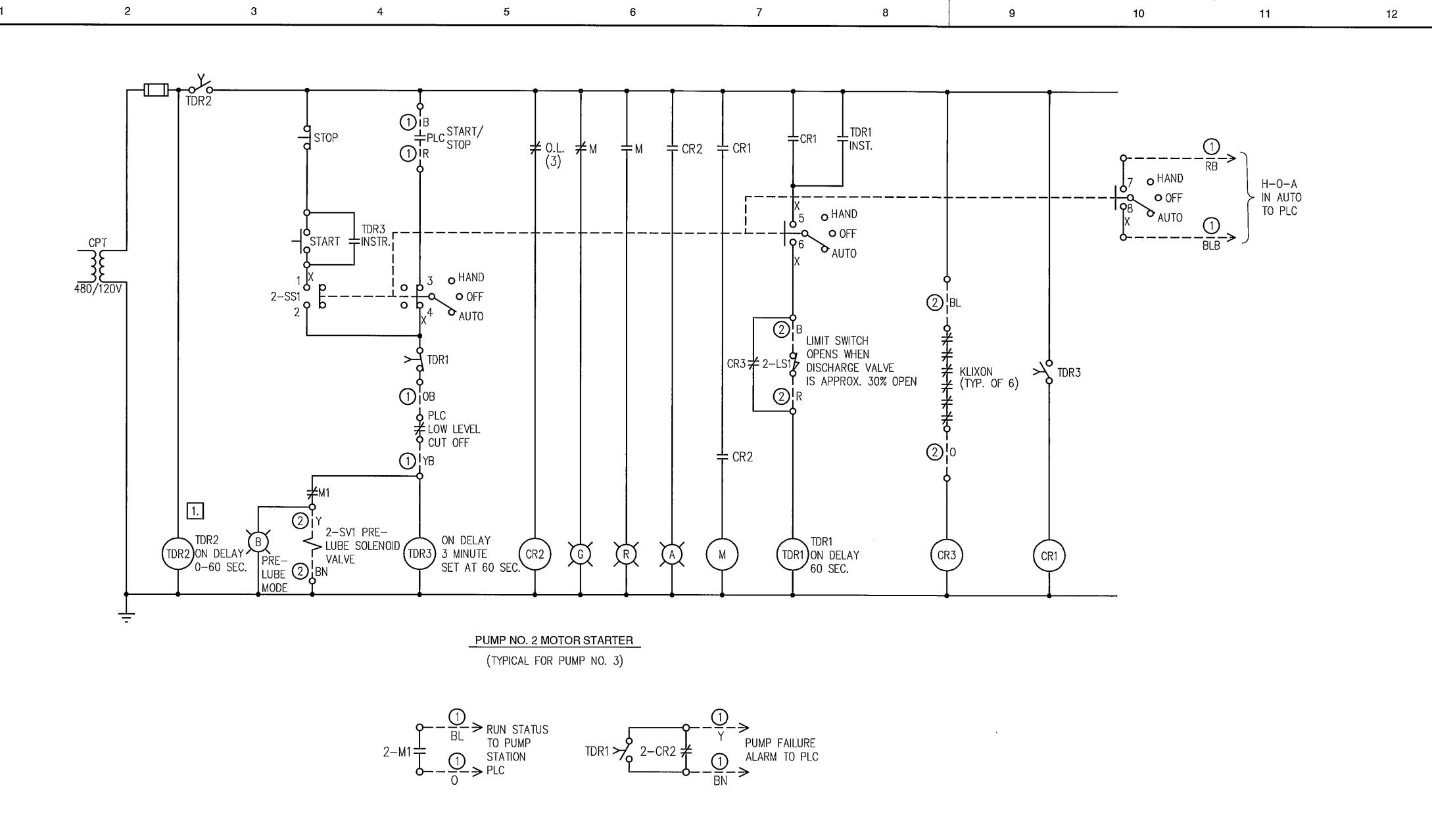












	T.A	ABLE OF CO	DRRESPON	IDING DEV	ICES AND	CIRCUITS				
DEVICES					CIRCUITS					
PUMP NO. 2	2-TDR1	2-TDR2	2-CR1	2-CR2	2-CR3	2-SS1	2-LS1	2-SV1	C2-1	C2-2
PUMP NO. 3	2-TDR11	2-TDR12	2-CR11	2-CR12	2-CR13	2-SS11	2-LS11	2-SV11	C2-11	C2-12

TIME DELAY RELAY SETTINGS					
PUMP TDR SETTINGS					
PUMP NO. 2	2-TDR2	30 SEC.			
PUMP NO. 2	2-TDR3	60 SEC.			
PUMP NO. 3	2-TDR12	40 SEC.			
PUMP NO. 3	2-TDR13	60 SEC.			

CONTACT DEVELOPMENT CONTROL SELECTOR SWITCH SS1 AND SS11					
POSITIONS					
CONTACTS	HAND	OFF	AUTO		
1-2	Χ				
3-4			X		
5-6	Χ		Χ		
7-8			Χ		

DESCRIPTION OF OPERATION

PUMP CONTROL

13

THE PUMP STARTER SHALL HAVE A H-O-A SWITCH WITH CONTROLS AS FOLLOWS:

HAND - THE PUMP SHALL BE STARTED/STOPPED FROM THE STARTER.

OFF - THE PUMP IS OFF.

AUTO - THE PUMP SHALL BE CONTROLLED BY THE PLC.

IF THE LEVEL FALLS TO 390'-0", THE PLC SHALL INITIATE A BACKUP, LOW LEVEL CUTOFF COMMAND TO ALL PUMPS.

IF THE DISCHARGE VALVE FAILS TO OPEN OR HIGH MOTOR TEMPERATURE AFTER THE PUMP STARTS, TDR1 TIMES OUT IN 60 SECONDS AND SHUTS DOWN THE PUMP. TDR2 IS RESET AT EACH POWER FAILURE AND WILL

15

16

NOT ALLOW THE PUMP TO START UNTIL IT TIMES-OUT AFTER POWER IS RESTORED.

PRE-LUBRICATION

THE PRE-LUBRICATION SYSTEM IS ENERGIZED (PRE-LUBE SOLENOID 2-SV1) IMMEDIATELY WHEN THE "START" PUSHBUTTON IS DEPRESSED OR THE PLC "START" COMMAND IS ISSUED. THE BLUE "PRE-LUBE" LIGHT IS ILLUMINATED. THE PRE-LUBRICATION PROCESS LASTS ONE (1) MINUTE AND THEN THE PUMP IS STARTED. AFTER THE PUMP IS RUNNING THE PRE-LUBRICATION SYSTEM IS DE-ENERGIZED AND THE BLUE LIGHT IS NO LONGER ILLUMINATED.

INDICATING LIGHTS

LIGHTS ARE TO BE PROVIDED ON THE MOTOR STARTER AS FOLLOWS:

RED – RUN GREEN - OFF

BLUE – PRE-LUBE

AMBER - PUMP OVERLOAD ALARM

ANNUNCIATION

PUMP SHUTDOWN DUE TO DISCHARGE VALVE FAILURE TO OPEN, OR COMMON STARTER FAILURE.

NOTES:

1. RELAY TDR2 DELAYS OPERATION OF THE PUMP UPON RESTORATION OF POWER, FOLLOWING POWER FAILURE. SEE CHART ON THIS DRAWING FOR SETTINGS.

		TABLE OF INTERCO	NNECTION WIRING	<del></del>	
CIRCUIT	COLOR	FUNCTION			
NUMBER	L COLOR L	FROM TO		FUNCTION	
C2-1		PUMP NO. 3	PUMP STATION		
		MOTOR STARTER	PLC		
	В			CONTROL	
	R			7	
	BL	•••			
	0			STATUS	
	Υ				
	BN			J	
	RB			MOTOR STARTER	
	BLB			IN "AUTO" MODE	
	OB			CONTROL	
	YB			<i></i>	
	BNB			SPARES	
	BR			<b>/</b>	
C2-2		PUMP NO. 3	PUMP MOTOR NO. 3		
		MOTOR STARTER			
	В			CONTROL	
	R		"		
	BL			CONTROL	
	0			<b>S</b>	
	Υ			PRE-LUBE	
	BN				
	RB			SPARE	

"AS-BUILT"





]	
date	detailed
NOV. 23, 1999	J. RECKART
designed	checked



LONDON BRIDGE BEACH PUMP HOU
PUMP CONTROL
DIAGRAMS NO. 2

project		con	ı contract			
97–7		W-183-00				
drawing	E6		re	ev.		
sheet	20	of	21	sheets		

8-15-01 JDF /15- BUILT

file Lbbphe06.dwg 03-21-2000 11:31 LJM

