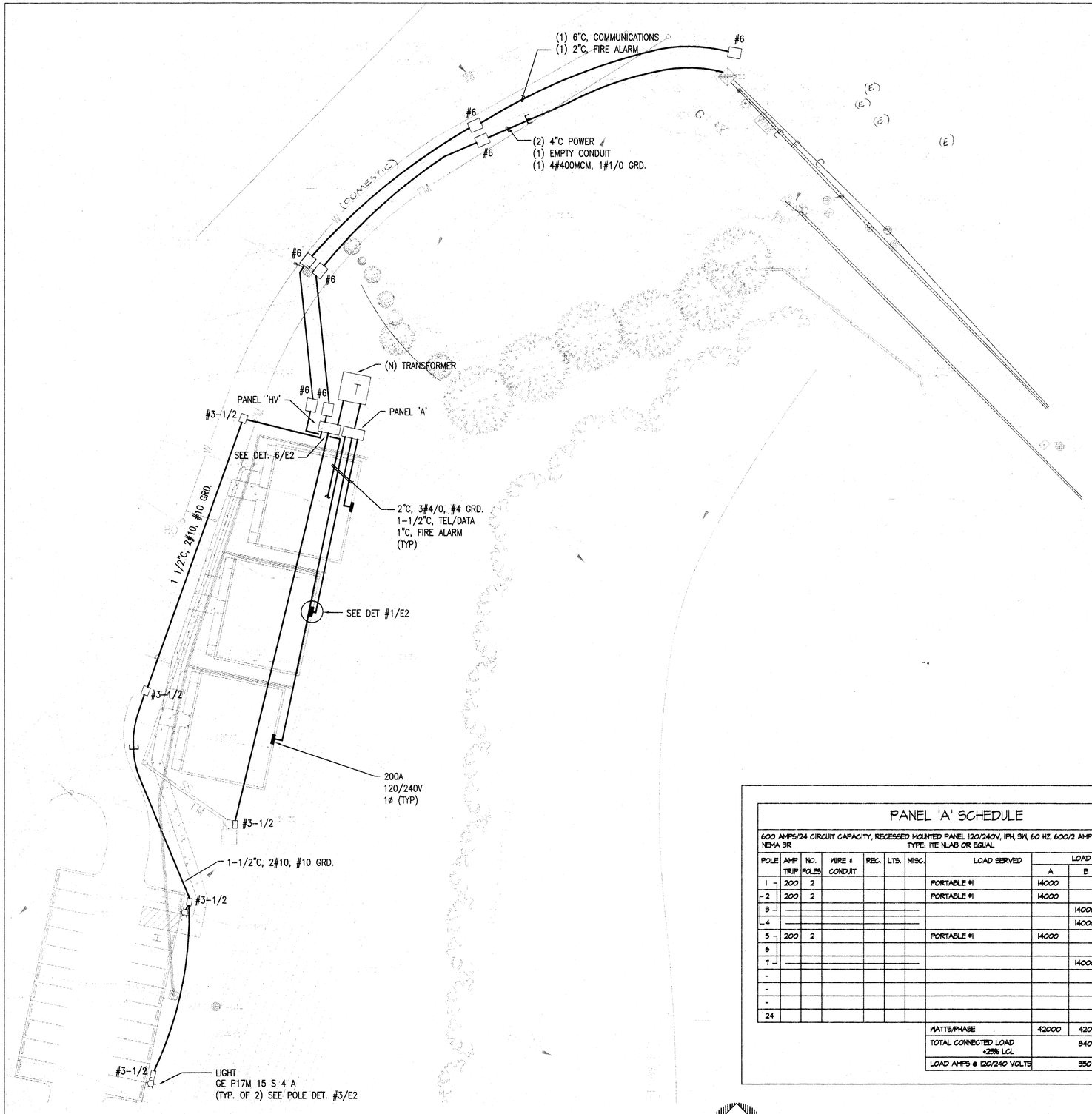

SITE ELECTRICAL PLAN

SCALE: 1" = 25'-0"

NORTH

GENERAL NOTES:

1. All work shall be done in accordance with the latest adopted edition of the California Electrical Code and Redwood City.

2. The contractor shall be responsible for field inspection and investigation to determine actual field conditions prior to bidding the project. Contractor shall include in his bid all labor and materials to provide a complete, operable, working system.

3. Contractor shall obtain an electrical permit from the Redwood City, Department of Public Works, Architectural Engineering Division, prior to the start of any electrical work.

4. All electrical work on this project shall be inspected. Electrical inspector shall be given 48 hours prior notification for each scheduled inspection.

5. Contractor shall be aware that utilities are underground in this area. Call Underground Service Alert (U.S.A) prior to trenching (800-642-2444) to "chalk paint" mark existing utilities. Contractor is required to survey, locate, and protect all existing utilities prior to trenching. Upon completion of electrical work, Contractor shall remove the U.S.A. chalk paint markings.

6. The contractor shall be responsible under this contract to repair and replace any and all damages to existing PCC walks, AC pavings, utilities, trees, turf, planted areas, and other facilities resulting from this project. When cutting or trenching through existing concrete sidewalks, driveways, and walkways, Contractor shall be required to completely replace entire sections of concrete panels from scoremark affected by the construction work. All sidewalks, driveways, and walkways, shall be replaced per City Standards.

7. All underground conduit shall be schedule 40 PVC, U.L. approved for direct burial, and terminated with factory end bell fittings. All elbows, bends, and turns transitioning to grade shall be installed using premanufactured 40-mil PVC coated galvanized rigid steel elbows and offsets.

8. All conductors shall be 600 volt, stranded copper, with type THW insulation, unless otherwise noted. All conductors shall be color coded to meet Redwood City Standard Specifications and NEC requirements.

9. All underground splices shall be made waterproof with "Splice-Kote" splice kits or other Redwood City approved methods. All fuseholders shall be watertight.

10. All raceways shall be installed with a #8 AWG solid copper equipment grounding conductor. Bonding shall comply with NEC requirements.

11. All pullboxes shall be sized as shown/required and have brass hold-down bolts, drain rock, pull tabs, and installed according to Redwood City Standard. Pullbox covers shall be labeled "ELECTRICAL". It shall be at the option of the Contractor and at the Contractor's expense to install additional pullboxes to facilitate his work. The location of the additional pullboxes shall be approved by the Engineer prior to installation.

12. Label and identify all electrical circuits by circuit number and panel location at each fixture, junction box, pullbox, or termination. Use Partex identification tags to identify underground circuits. See specifications for further requirements.

13. All electrical equipment and materials used on this project shall be U.L. listed and approved for the application intended.

14. All underground PVC conduit shall have a burial depth of 24" minimum, unless otherwise noted.

15. Trenching and backfilling shall be in accordance with the specifications. Congested areas underground shall be hand trenched. All trenching that crosses existing utilities or fences shall be hand dug 5'+/- each side. Coordinate all trenching for electrical work with other contract drawings.

16. Contractor shall be responsible for all permits, inspections, coordination to complete connection and installation of the facility electric service.

17. Provide pull rope as required. Use No. 14 AWG. Zinc-Coated steel or monofilament plastic line having not less than 200 lb. tensile strength. Leave not less than 12 inches of slack at each end of pull wire.

PANEL 'A' SCHEDULE

600 AMPS/24 CIRCUIT CAPACITY, RECESSED MOUNTED PANEL 120/240V, 1PH, 3W, 60 HZ, 600/2 AMP MAIN LUGS
NEMA 3R — TYPE: ITE NLAB OR EQUAL

POLE	AMP TRIP	NO. POLES	WIRE & CONDUIT	REC.	LTS.	MISC.	LOAD SERVED	LOAD (VA) A	LOAD (VA) B	
1	200	2					PORTABLE #1	14000		
2	200	2					PORTABLE #1	14000		
3									14000	
4									14000	
5	200	2					PORTABLE #1	14000		
6										
7									14000	
-										
-										
-										
24										
							MATTS/PHASE	42000	42000	
							TOTAL CONNECTED LOAD +25% LCL		84000	
							LOAD AMPS @ 120/240 VOLTS		350 AMPS	

PANEL 'HV' SCHEDULE

400 AMPS/12 CIRCUIT CAPACITY, 2T1/480V, 3PH, 4W, 60 HZ, NEMA 3R LUGS ONLY
TYPE: ITE NLAB OR EQUAL

POLE	AMP TRIP	NO. POLES	WIRE & CONDUIT	REC.	LTS.	MISC.	LOAD SERVED	LOAD (VA) A	LOAD (VA) B	
1	20	3	3#12)/2"C				SUMP PUMP - 1	2100		
2	20	3	3#12)/2"C				SUMP PUMP - 2	2100		
3									2100	
4									2100	
5										2100
6										2100
7	250	2					TRANSF. 167 KVA	88500		
8								-		
9									88500	
10									-	
11	15	1					SITE LIGHTING			200
12										
							MATTS/PHASE	87100	87100	4400
							TOTAL CONNECTED LOAD DEMAND LOAD		179800 107160	
							LOAD AMPS @ 120/240 VOLTS		225 AMPS	

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPLOI 103409 INCR #1
AC A FLS SS
DATE DEC 2 2 2000

CITY APPROVAL

NO.	BY	DATE

PREPARED UNDER THE SUPERVISION OF
ARTURO CABRERA
EXPIRES 6-30-2001

SCALE: AS SHOWN
DATE: 12-20-00
DRAWN BY: LCC
ENGINEER: AOC
CHECKED BY: AOC
FB: PG.

DAVID EVANS AND ASSOCIATES, INC.
5000 EXECUTIVE PARKWAY, SUITE 125
SAN RAMON, CALIFORNIA 94583
TEL: (925) 867-3380 FAX: (925) 867-3388

SAN MATEO COUNTY COMMUNITY COLLEGE DISTRICT
CANADA COLLEGE REDWOOD CITY CALIFORNIA

ELECTRICAL PLAN
WEST ED MODULAR BUILDINGS

CONSTRUCTION ENGINEERING
ENGINEERING CONSULTANT * MECH.*ELECT.
GENERAL CONTRACTOR Lic. #869798I
INDUSTRIAL • COMMERCIAL • RESIDENTIAL
4070 Nelson Avenue, Suite C
Concord, California 94520
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SHEET NO.
E1 OF 2 SHEETS
JOB No.
SMCC0000-0003