

SINGLE LINE DIAGRAM

EXISTING ELECTRICAL SERVICES HAS BEEN INVESTIGATED AND FOUND TO HAVE ADEQUATE CAPACITY FOR THE PROPOSED LOAD ADDITION SHOWN ON THESE PLANS SITE INSPECTOR IS TO WITNESS AND VERIFY GROUNDING TESTS



GENERAL NOTES

1. VISIT JOB SITE AND VERIFY EXISTING CONDITIONS PRIOR TO BID.
2. THE ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE AND ALL APPLICABLE LOCAL ORDINANCES. WHERE PLANS CALL FOR A HIGHER STANDARD THAN APPLICABLE CODES, THE PLANS SHALL GOVERN.
3. CONDUIT RUNS ARE SHOWN DIAGRAMMATICALLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD TO SUIT FIELD CONDITIONS.
4. ALL ELECTRICAL EQUIPMENT, APPLIANCES AND LIGHTING FIXTURES SHALL BE LISTED BY A RECOGNIZED TEST LAB AND BEAR THAT LABEL OF APPROVAL.
5. CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT ALL MATERIAL AND EQUIPMENT FOR THIS WORK UNLESS OTHERWISE NOTED.
6. FURNISH DISCONNECT SWITCHES AT REMOTE MOTORS.
7. ALL SPACES AS INDICATED ON PANELS OR SWITCHBOARD SHALL BE COMPLETE WITH HARDWARE AND BUSSING FOR FUTURE BREAKER OR SWITCH.
8. CHECK ARCHITECTURAL PLANS FOR DOOR SWINGS BEFORE INSTALLING SWITCH OUTLETS.
9. GROUNDING AND BONDING SHALL BE PER CODE PLUS ANY ADDITIONAL PROVISIONS SPECIFIED OR SHOWN ON DRAWINGS.
10. ALL CONDUIT RUNS SHALL CONTAIN A CODE SIZED GROUND CONDUCTOR.
11. THESE PLANS ARE NOT COMPLETE UNTIL APPROVED BY THE AUTHORITY HAVING JURISDICTION.
12. ALL CONDUCTORS SHALL BE IN CONDUIT.
13. ALL CONDUCTORS SHALL BE COPPER WITH TYPE THHN/THWN INSULATION.
14. CURRENT CALIFORNIA BUILDING CODE ACCESS COMPLIANT MOUNTING HEIGHTS APPLY ONLY TO NEW OR RELOCATED ELECTRICAL SWITCHES, OUTLETS, PUSH BUTTONS ETC.. THEY SHALL COMPLY WITH CALIFORNIA BUILDING CODE 1117B.6.
15. COORDINATE WITH SERVING ELECTRICAL UTILITY COMPANY AND MAKE PROVISIONS FOR ELECTRICAL SERVICE ACCORDINGLY. INCLUDE ALL SERVICE COSTS AND UTILITY COMPANY CHARGES IN BID.
16. COORDINATE WITH SERVING TELEPHONE UTILITY COMPANY AND MAKE PROVISIONS FOR TELEPHONE SERVICE ACCORDINGLY. INCLUDE ALL SERVICE COSTS AND ANY UTILITY COMPANY CHARGES I BID.
17. ALL PERMITS SHALL BE OBTAINED AND PAID FOR BY CONTRACTOR.

SYMBOLS

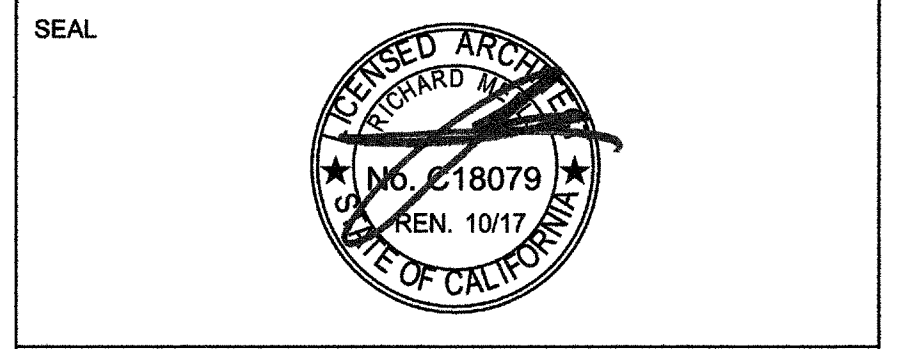
- CONDUIT EXISTING
- CONDUIT CONCEALED IN WALL OR CEILING
- CONDUIT CONCEALED UNDER FLOOR OR BELOW GRADE
- CONDUIT STUBBED OUT AND CAPPED
- CONDUIT TURNED UP
- CONDUIT TURNED DOWN
- HATCH MARKS INDICATE NO. OF #2 WIRES IN CODE SIZED CONDUIT IN 3/4" C.
- (#) MAX. IN 1/2". NO MARKS = 2#2
- HAVE RUN LETTER INDICATES PANEL NUMBER(S) INDICATES CIRCUIT(S)
- SANGUIT
- GROUND CONNECTION
- DISTRIBUTION SWITCHBOARD OR PANEL
- PANEL, BRANCH CIRCUIT TYPE, SURFACE AND FLUSH
- SIGNAL TERMINAL CABINET, SURFACE & FLUSH
- FLUORESCENT FIXTURE
- OUTLET DATA: BAR INDICATES WALL MOUNT, LETTER INDICATES SWITCH CONTROL, NO. INDICATES CIRCUIT.
- SURFACE FIXTURE ON FLUSH OUTLET.
- RECESSED FIXTURE WITH JUNCTION BOX FOR THRU WIRING
- EXIT LIGHT WITH ARROWS AS SHOWN ON PLANS, WALL AND CEILING MOUNT.
- EXTERIOR WALL MOUNT FIXTURE
- LOW LEVEL EXIT SIGN, 4" AFF. 4" FROM DOOR JAMB
- LIGHT FIXTURE DESIGNATION LETTER INDICATES TYPE, NO. INDICATES WATTAGE. SEE FIXTURE SCHEDULE.
- MECHANICAL EQUIPMENT DESIGNATION. SEE MECHANICAL DRAWINGS.
- SPECIAL RECEPTACLE - SEE PLAN
- METER
- FLUSH FLOOR RECEPTACLE
- RECEPTACLE, DUPLEX, 15A, 15A, NEMA 5-15R 48" UNO.
- DUPLEX RECEPTACLE MTP. ABOVE BACKSPASH+42" UNO.
- DUPLEX RECEPTACLE W/LOWER HALF SWITCHED 48" UNO.
- GROUND FAULT CIRCUIT INTERRUPTING RECEPTACLE 15" UNO.
- DOUBLE DUPLEX RECEPTACLE 48" UNO.
- CEILING RECEPTACLE
- RECEPTACLE, DUPLEX, 20A, 15A, NEMA 5-20R 48" UNO.
- JUNCTION BOX 4" SQUARE, 1-1/2" DEEP UNO.
- THERMOSTAT F.B.O. 48"
- MOTOR, NO. INDICATES HORSEPOWER
- CLOCK OUTLET 4" SQUARE, 1-1/2" DEEP UNO.
- DISCONNECT SWITCH, NON-FUSED
- DISCONNECT SWITCH FUSED HORSEPOWER RATED OR SIZED AS NOTED
- COMBINATION MAGNETIC STARTER WITH DISCONNECT SWITCH AND FUSES
- MAGNETIC MOTOR STARTER W/OVERLOADS IN EACH PHASE
- DIMMER W/INTEGRAL "ON-OFF" SW. 48" UNO.
- PUSHBUTTON 48" UNO.
- PHOTOCELL
- SMOKE DETECTOR
- WIRELESS ACCESS POINT
- TELEPHONE/COMPUTER/DATA OUTLET, TWO GANG BOX W/1 GANG COVERPLATE & GROUNDING OPENING 48" UNO.
- CABLE TV OUTLET 48" UNO.
- MOTION SENSOR
- ACCESS POINT WIRELESS
- CAMERA
- EXISTING SWITCH
- S SINGLE POLE SWITCH
- S<sup>2</sup> DOUBLE POLE SWITCH } QUIET TOGGLE TYPE RATED AT 20A 120/125V AC, 48" UNO.
- S<sup>3</sup> THREE WAY SWITCH
- S<sup>4</sup> SWITCH W/PLOT LT.
- S<sup>M</sup> MANUAL MOTOR STARTER
- FACP FIRE ALARM CONTROL PANEL
- GFI GROUND FAULT CIRCUIT INTERRUPTING
- LST LABOR SAVING TANDEN
- MLO MAIN LUGS ONLY
- W/ WITH
- C.O. CONDUIT ONLY
- W.P. WEATHERPROOF
- F.B.O. FURNISHED BY OTHERS, INSTALL & CONNECT
- U.N.O. UNLESS NOTED OTHERWISE
- N.E.C. NATIONAL ELECTRICAL CODE
- N.I.C. NOT IN CONTRACT
- (E) EXISTING
- (N) NEW
- (R) REMOVE
- (RL) RELOCATE
- S/M SURFACE MOUNT
- U/G UNDERGROUND
- CWP COLD WATER PIPE
- AFF ABOVE FINISHED FLOOR
- HACR HEATING AND AIR CONDITIONING RATED CIRCUIT BREAKER
- N.L. NIGHT LIGHT

NOTE: NOT ALL SYMBOLS SHOWN ARE USED ON THIS PROJECT.

(N) PANEL "R-520"												
SERVICE: 120/208V 1Ø 3Ø			MAIN BKR.: 100 AMP			BUS: 100 A			LOC.: SEE PLAN			
SQ. D LOAD CENTER 16 CIRCUIT						MTO.: FLUSH						
REMARKS	LOAD			CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT	LOAD			REMARKS
	ΦA	ΦB	ΦC						ΦA	ΦB	ΦC	
RECEPTACLES				1	20	1						LIGHTS
				2	20	1						LIGHTS
				3	20	1						HVAC
				4	20	1						
				5	20	1						
				6	20	1						
				7	20	1						
SPACE				8	20	1						
				9	20	1						
				10	20	1						N/A BOOSTER PANEL (N) IDF
				11								
				12								
				13								
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				40								
				41								
				42								
TOTAL WATTS=	Φ A=			Φ B=			Φ C=					
AMPS=				MINIMUM BKR. A I.C. RATING= 10,000 AMPS SYM.								

\* PROVIDE NEW 20A BREAKER WITH RED HANDLE AND LOCK ON DEVICE  
 \*\* PROVIDE NEW 20A BREAKER

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REVISIONS			
NO.	DATE	APPRD.	DESCRIPTION

CONSULTANT  
**JMPE**  
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 LIGHTING DESIGN  
 CA REGISTRATION NO. B150683  
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AGENCY INFORMATION:  
 AGENCY TRACKING NO.: 63321-154  
 FILE NO. 15-6  
 IDENTIFICATION STAMP  
 DIV. OF THE STATE ARCHITECT  
 OFFICE OF REGULATION SERVICES  
 03-117035  
 AC, N.E. FLS, L.S. SS. 6/1  
 DATE 6/28/2016

BAKERSFIELD CITY SCHOOL DISTRICT  
**CHIPMAN JR. HIGH SCHOOL (2)**  
**RELOCATABLES**  
 2905 EISSLER STREET  
 BAKERSFIELD, CA 93306

OPSC or OSHPD PROJ. NO.:  
 PROJECT NO: 14146.000  
 DRAWN BY: AC  
 WITH: KT  
 ISSUE DATE: 04/27/2016

SHEET TITLE  
**SYMBOL LIST**  
**GENERAL NOTES**  
**SINGLE LINE**  
**DIAGRAM**

SHEET NUMBER  
**E-0**