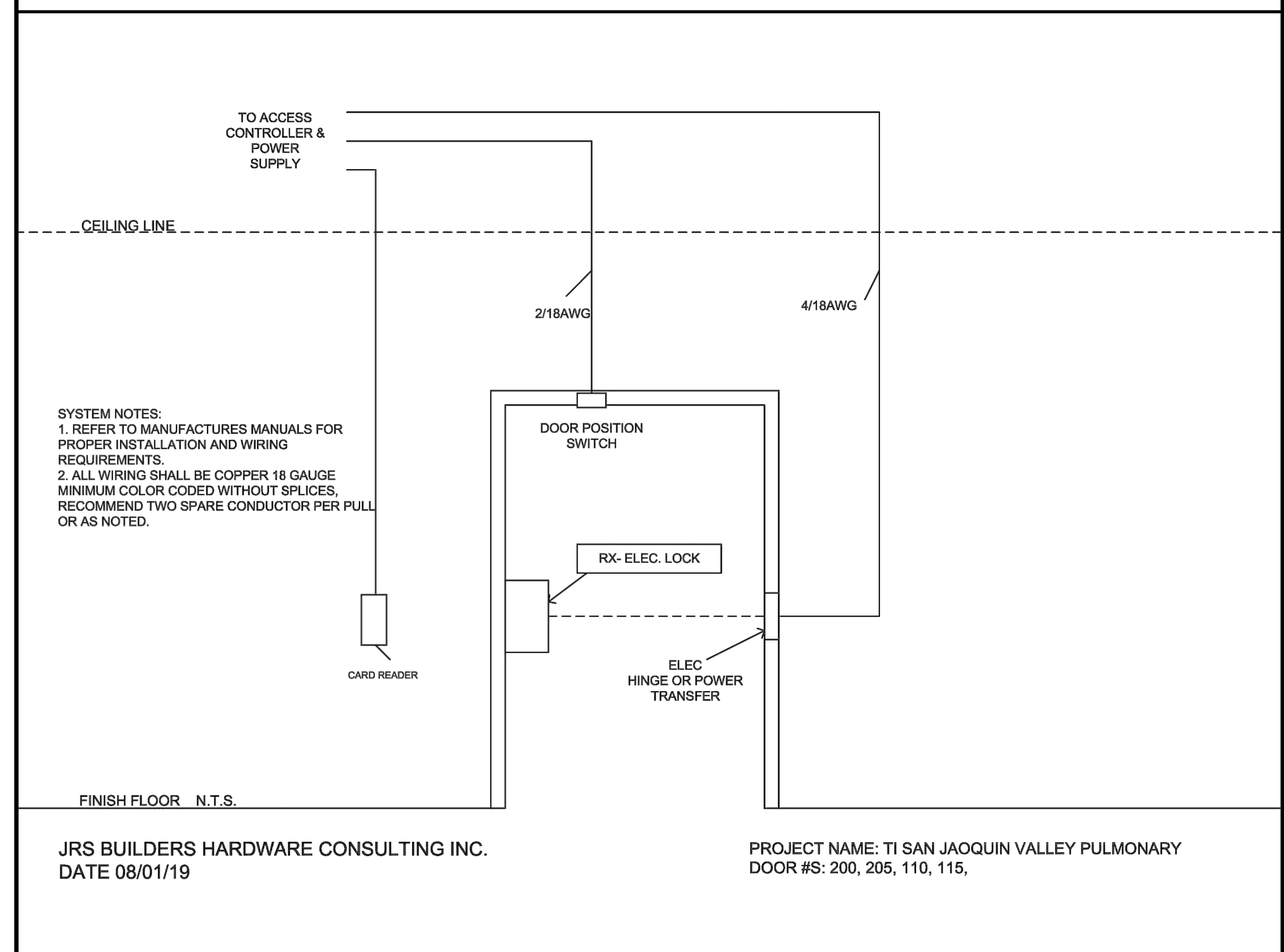
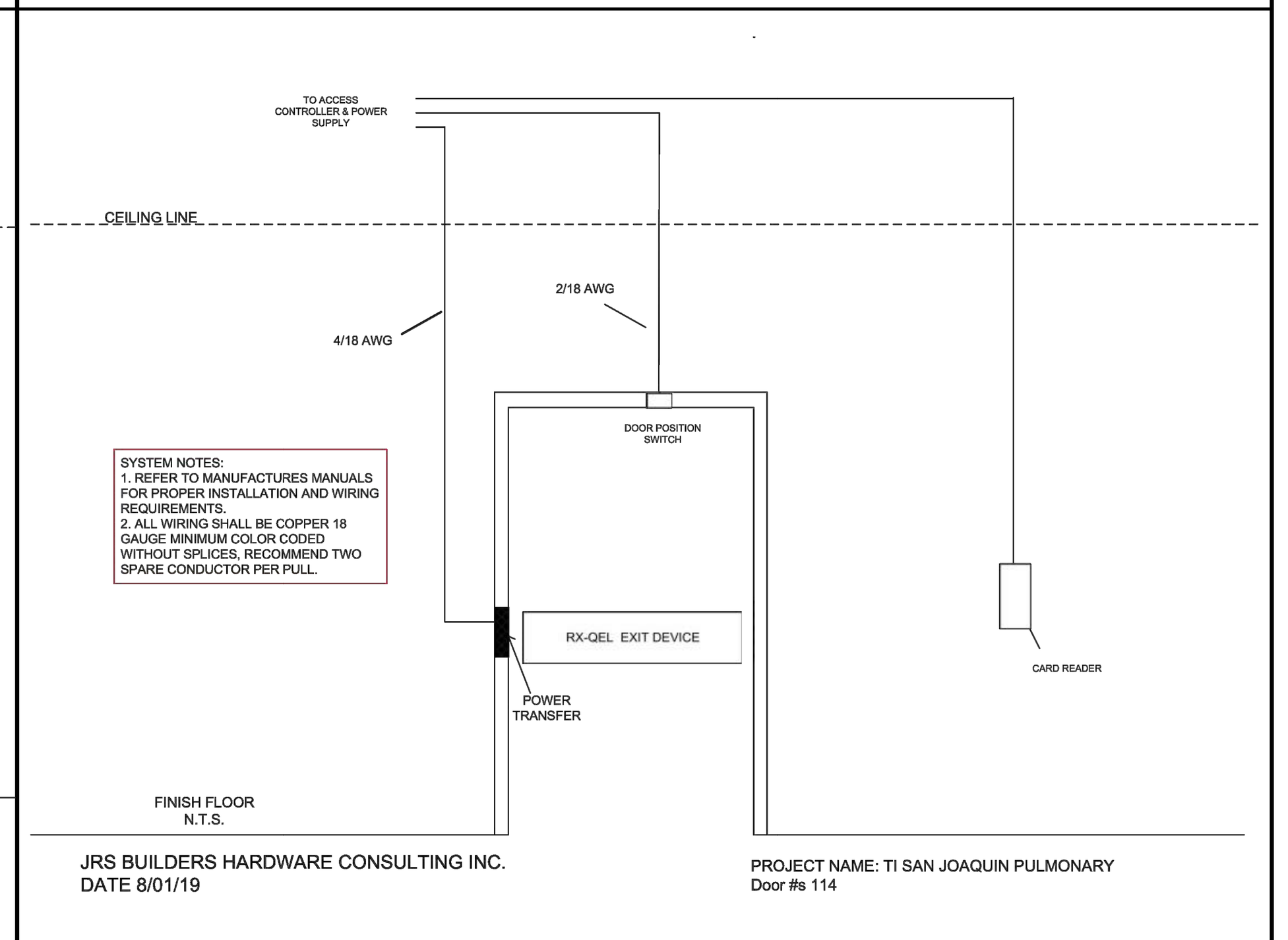

TO ACCESS CONTROLLER & POWER SUPPLY
CEILING LINE
2/18AWG
4/18AWG
SYSTEM NOTES:
1. REFER TO MANUFACTURES MANUALS FOR PROPER INSTALLATION AND WIRING REQUIREMENTS.
2. ALL WIRING SHALL BE COPPER 18 GAUGE MINIMUM COLOR CODED WITHOUT SPLICES, RECOMMEND TWO SPARE CONDUCTOR PER PULL OR AS NOTED.
DOOR POSITION SWITCH
RX- ELEC. LOCK
CARD READER
ELEC HINGE OR POWER TRANSFER
FINISH FLOOR N.T.S.
JRS BUILDERS HARDWARE CONSULTING INC.
DATE 08/01/19
PROJECT NAME: TI SAN JAOQUIN VALLEY PULMONARY
DOOR #S: 200, 205, 110, 115,

1 DOOR CONTROL N.T.S.

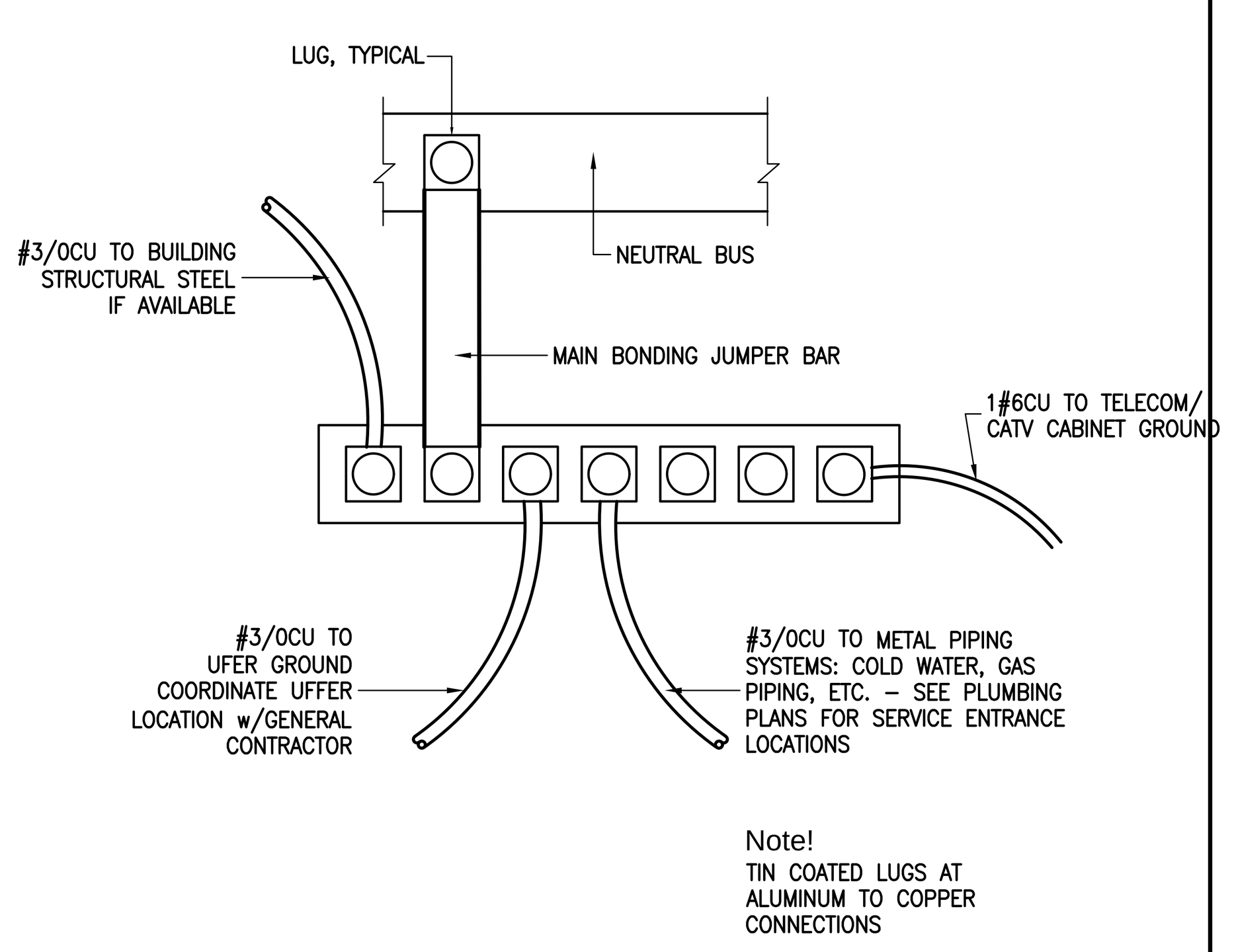

TO ACCESS CONTROLLER & POWER SUPPLY
CEILING LINE
2/18 AWG
4/18 AWG
DOOR POSITION SWITCH
SYSTEM NOTES:
1. REFER TO MANUFACTURES MANUALS FOR PROPER INSTALLATION AND WIRING REQUIREMENTS.
2. ALL WIRING SHALL BE COPPER 18 GAUGE MINIMUM COLOR CODED WITHOUT SPLICES, RECOMMEND TWO SPARE CONDUCTOR PER PULL.
RX-QEL EXIT DEVICE
POWER TRANSFER
CARD READER
FINISH FLOOR N.T.S.
JRS BUILDERS HARDWARE CONSULTING INC.
DATE 8/01/19
PROJECT NAME: TI SAN JOAQUIN PULMONARY
Door #s 114

2 DOOR CONTROL N.T.S.

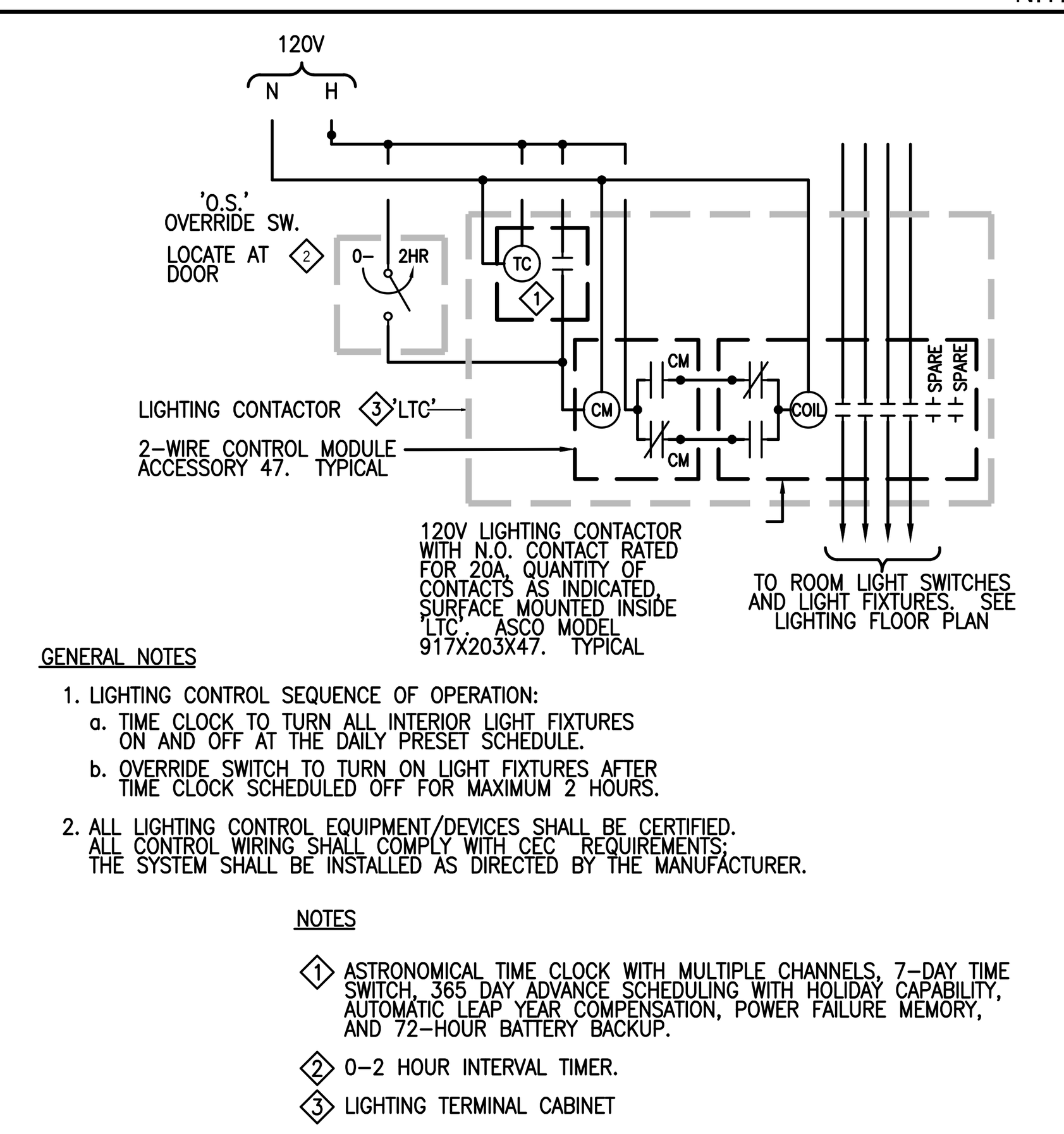
3 N.T.S.

4 N.T.S.

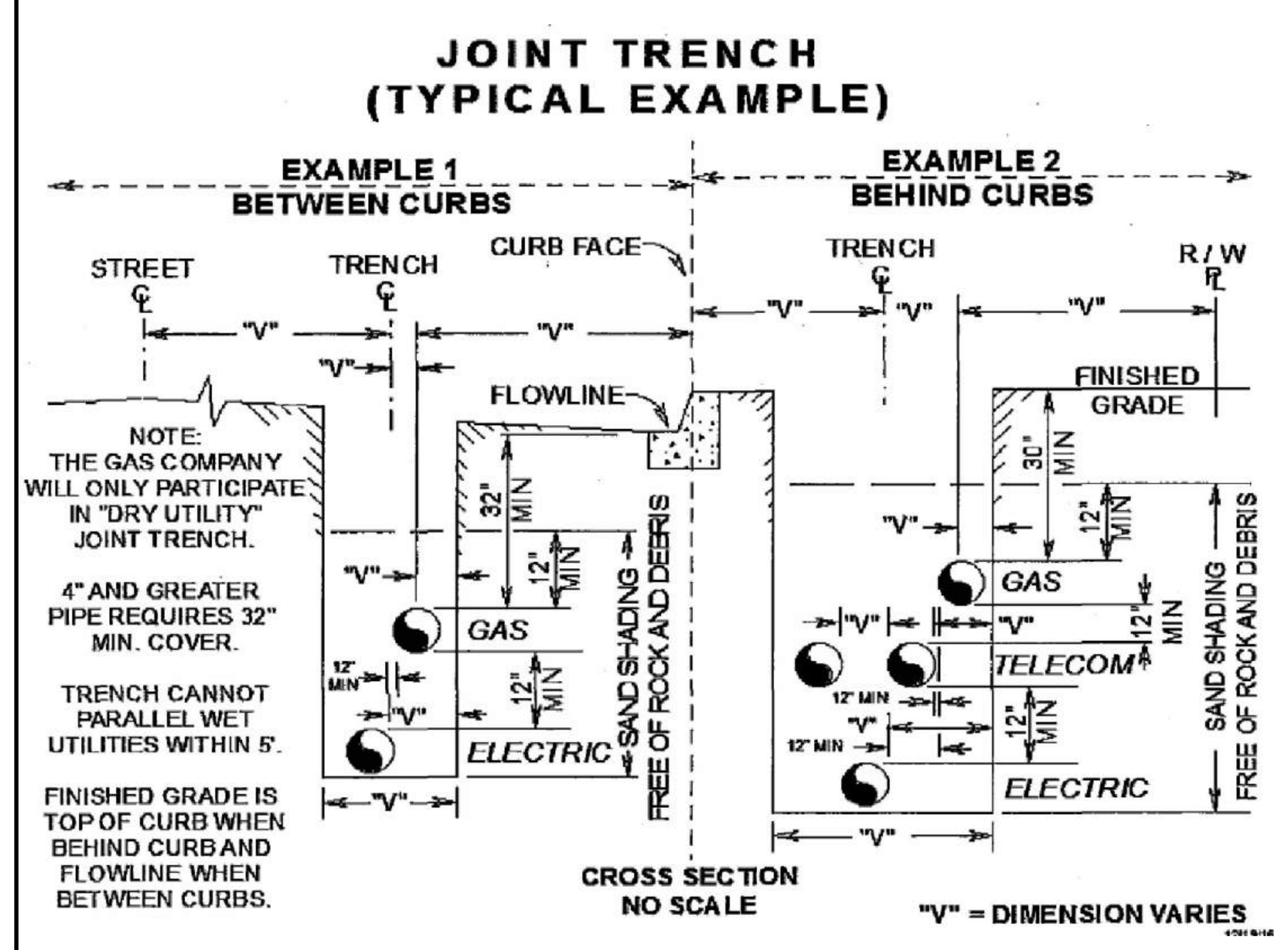
5


LUG, TYPICAL
NEUTRAL BUS
#3/0CU TO BUILDING STRUCTURAL STEEL IF AVAILABLE
MAIN BONDING JUMPER BAR
1#6CU TO TELECOM/ CATV CABINET GROUND
#3/0CU TO UFER GROUND COORDINATE UFFER LOCATION w/GENERAL CONTRACTOR
#3/0CU TO METAL PIPING SYSTEMS: COLD WATER, GAS PIPING, ETC. – SEE PLUMBING PLANS FOR SERVICE ENTRANCE LOCATIONS
Note!
TIN COATED LUGS AT ALUMINUM TO COPPER CONNECTIONS

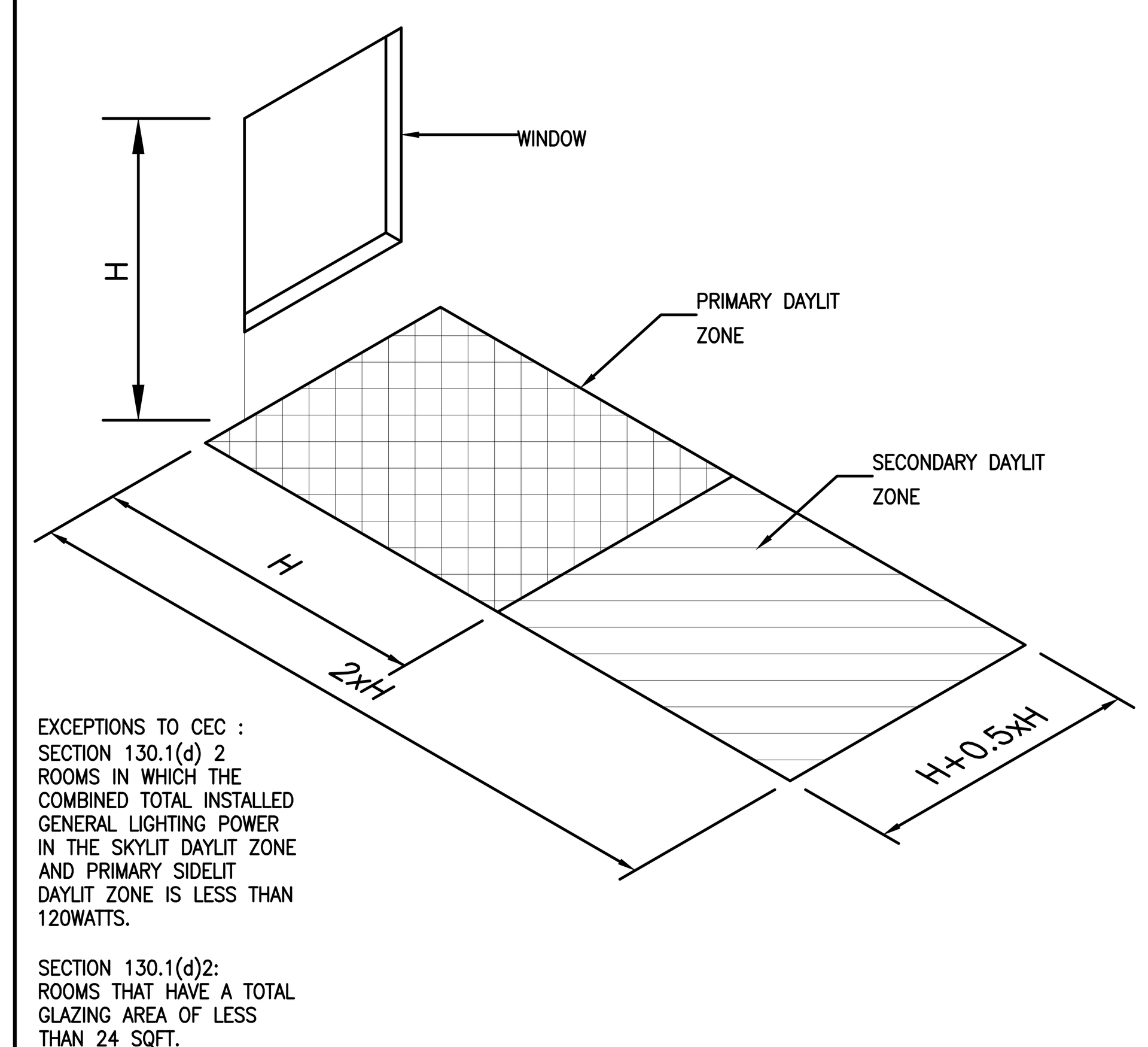
6 BONDING DETAIL N.T.S.


120V
N H
'O.S.' OVERRIDE SW.
LOCATE AT 2 DOOR
0– 2HR
TC
1
LIGHTING CONTACTOR 3 'LTC'
2–WIRE CONTROL MODULE ACCESSORY 47. TYPICAL
CM
COIL
SPARE
SPARE
120V LIGHTING CONTACTOR WITH N.O. CONTACT RATED FOR 20A, QUANTITY OF CONTACTS AS INDICATED, SURFACE MOUNTED INSIDE 'LTC'. ASCO MODEL 917X203X47. TYPICAL
TO ROOM LIGHT SWITCHES AND LIGHT FIXTURES. SEE LIGHTING FLOOR PLAN
GENERAL NOTES
1. LIGHTING CONTROL SEQUENCE OF OPERATION:
a. TIME CLOCK TO TURN ALL INTERIOR LIGHT FIXTURES ON AND OFF AT THE DAILY PRESET SCHEDULE.
b. OVERRIDE SWITCH TO TURN ON LIGHT FIXTURES AFTER TIME CLOCK SCHEDULED OFF FOR MAXIMUM 2 HOURS.
2. ALL LIGHTING CONTROL EQUIPMENT/DEVICES SHALL BE CERTIFIED. ALL CONTROL WIRING SHALL COMPLY WITH CEC REQUIREMENTS; THE SYSTEM SHALL BE INSTALLED AS DIRECTED BY THE MANUFACTURER.
NOTES
1 ASTRONOMICAL TIME CLOCK WITH MULTIPLE CHANNELS, 7–DAY TIME SWITCH, 365 DAY ADVANCE SCHEDULING WITH HOLIDAY CAPABILITY, AUTOMATIC LEAP YEAR COMPENSATION, POWER FAILURE MEMORY, AND 72–HOUR BATTERY BACKUP.
2 0–2 HOUR INTERVAL TIMER.
3 LIGHTING TERMINAL CABINET

7 ASTRONOMICAL TIMECLOCK DIAGRAM N.T.S.

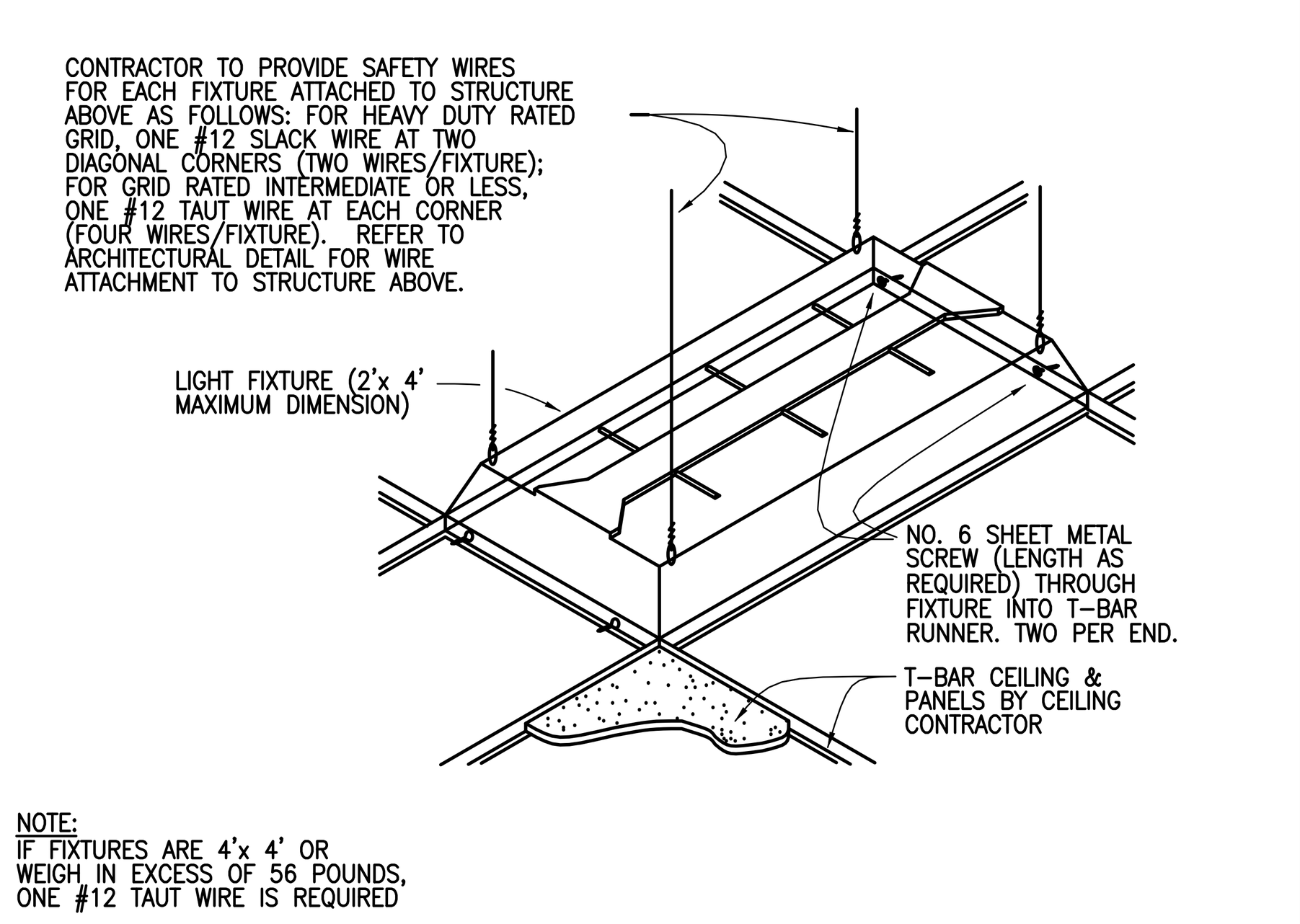

JOINT TRENCH
(TYPICAL EXAMPLE)
EXAMPLE 1
BETWEEN CURBS
EXAMPLE 2
BEHIND CURBS
STREET ℄
TRENCH ℄
CURB FACE
TRENCH ℄
R/W ℙ
"V"
FLOWLINE
FINISHED GRADE
NOTE:
THE GAS COMPANY WILL ONLY PARTICIPATE IN "DRY UTILITY" JOINT TRENCH.
4" AND GREATER PIPE REQUIRES 32" MIN. COVER.
TRENCH CANNOT PARALLEL WET UTILITIES WITHIN 5'.
FINISHED GRADE IS TOP OF CURB WHEN BEHIND CURB AND FLOWLINE WHEN BETWEEN CURBS.
32" MIN
30" MIN
12" MIN
GAS
TELECOM
ELECTRIC
SAND SHADING – FREE OF ROCK AND DEBRIS
CROSS SECTION
NO SCALE
"V" = DIMENSION VARIES

8 JOINT TRENCH N.T.S.

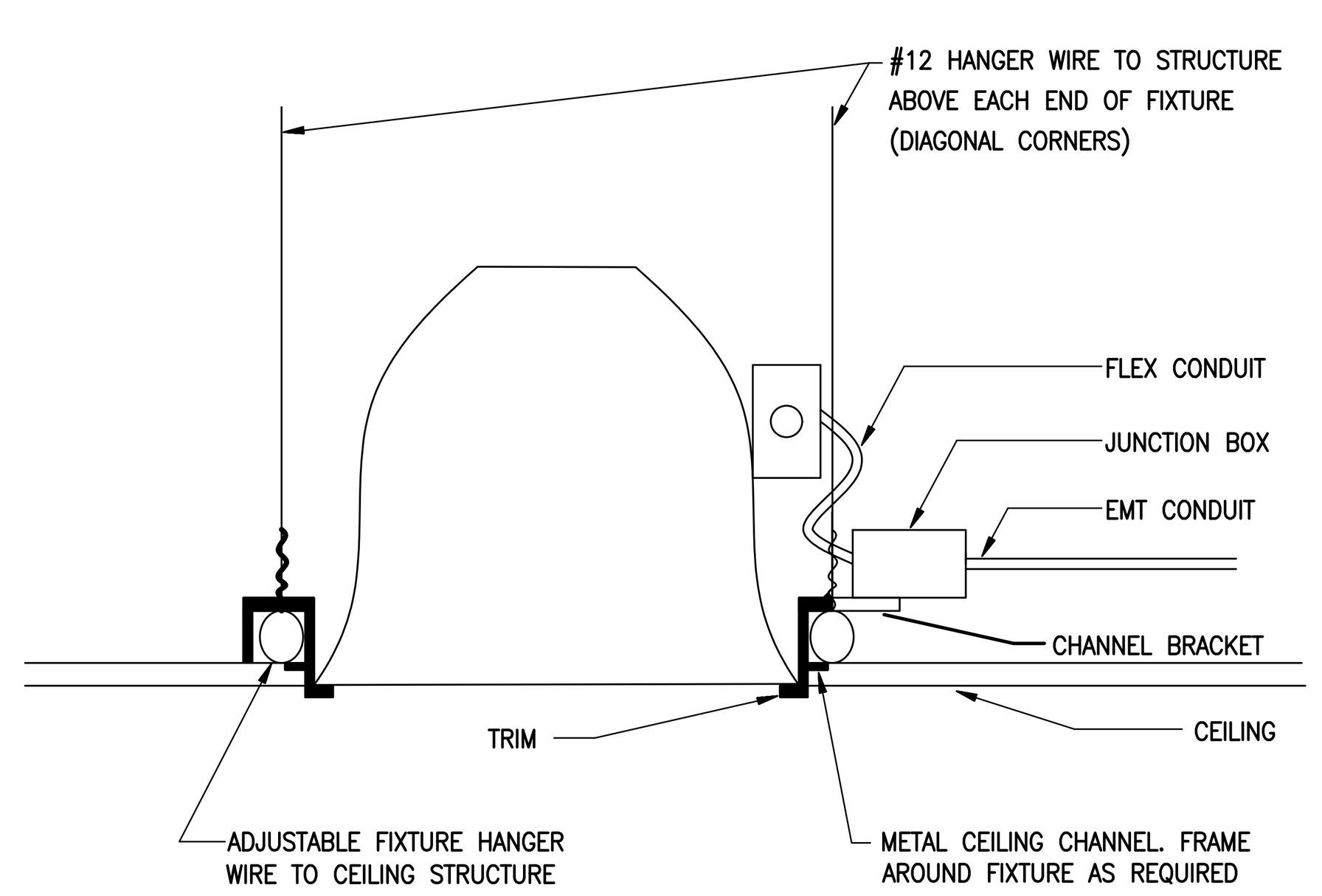

WINDOW
H
PRIMARY DAYLIT ZONE
SECONDARY DAYLIT ZONE
H
2xH
H+0.5xH
EXCEPTIONS TO CEC :
SECTION 130.1(d) 2
ROOMS IN WHICH THE COMBINED TOTAL INSTALLED GENERAL LIGHTING POWER IN THE SKYLIT DAYLIT ZONE AND PRIMARY SIDELIT DAYLIT ZONE IS LESS THAN 120WATTS.
SECTION 130.1(d)2:
ROOMS THAT HAVE A TOTAL GLAZING AREA OF LESS THAN 24 SQFT.

9 AUTOMATIC DAYLIGHTING CONTROL N.T.S.

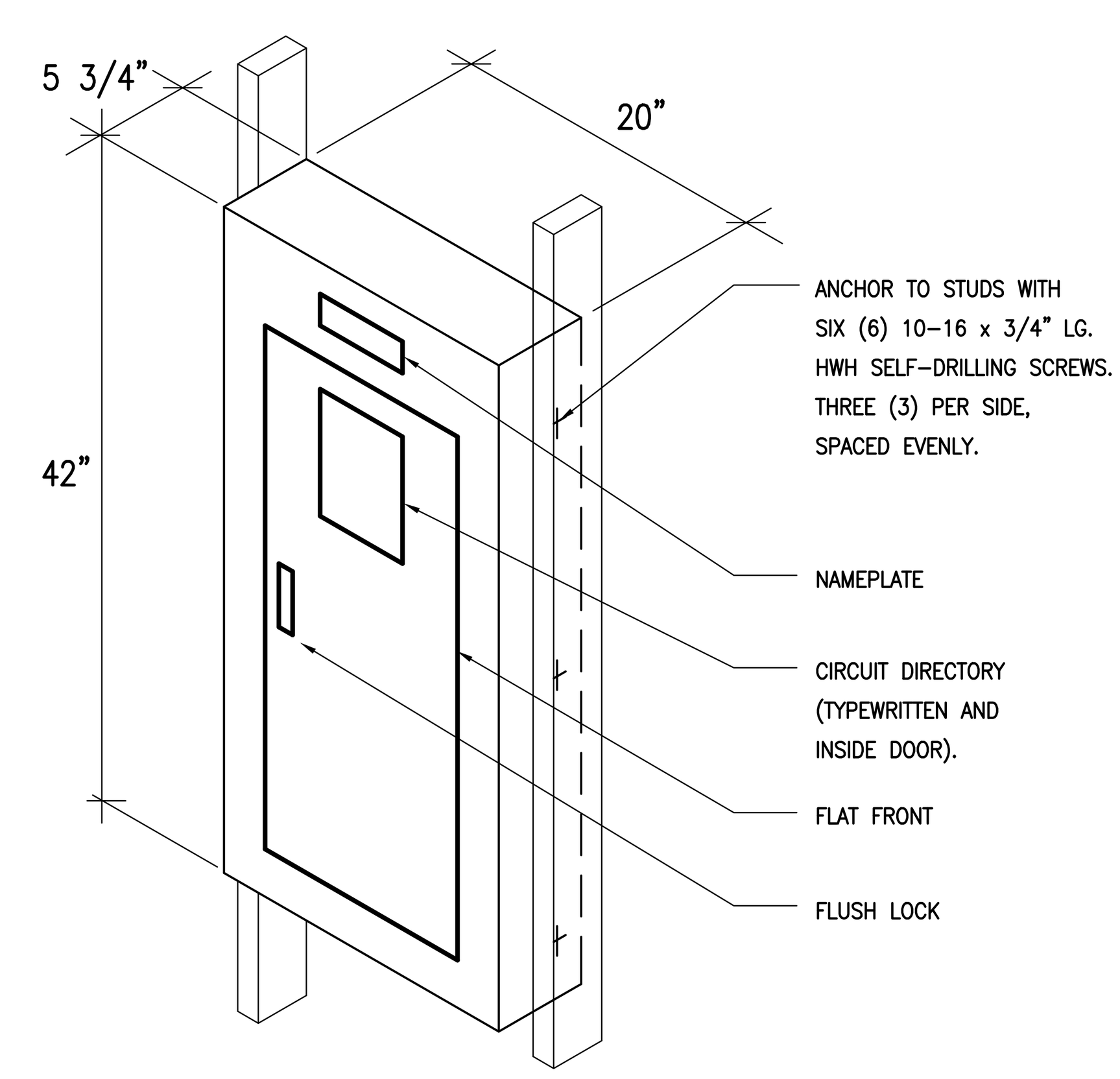
10


CONTRACTOR TO PROVIDE SAFETY WIRES FOR EACH FIXTURE ATTACHED TO STRUCTURE ABOVE AS FOLLOWS: FOR HEAVY DUTY RATED GRID, ONE #12 SLACK WIRE AT TWO DIAGONAL CORNERS (TWO WIRES/FIXTURE); FOR GRID RATED INTERMEDIATE OR LESS, ONE #12 TAUT WIRE AT EACH CORNER (FOUR WIRES/FIXTURE). REFER TO ARCHITECTURAL DETAIL FOR WIRE ATTACHMENT TO STRUCTURE ABOVE.
LIGHT FIXTURE (2'x 4' MAXIMUM DIMENSION)
NO. 6 SHEET METAL SCREW (LENGTH AS REQUIRED) THROUGH FIXTURE INTO T–BAR RUNNER. TWO PER END.
T–BAR CEILING & PANELS BY CEILING CONTRACTOR
NOTE:
IF FIXTURES ARE 4'x 4' OR WEIGH IN EXCESS OF 56 POUNDS, ONE #12 TAUT WIRE IS REQUIRED

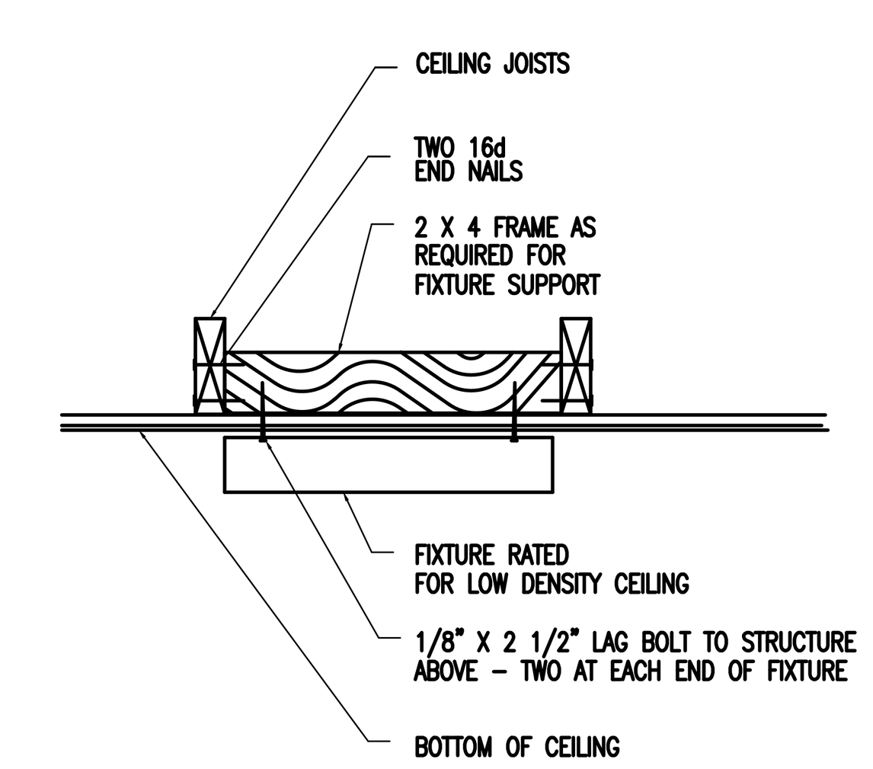
11 RECESSED FIXTURE MOUNTING


#12 HANGER WIRE TO STRUCTURE ABOVE EACH END OF FIXTURE (DIAGONAL CORNERS)
FLEX CONDUIT
JUNCTION BOX
EMT CONDUIT
CHANNEL BRACKET
CEILING
TRIM
ADJUSTABLE FIXTURE HANGER WIRE TO CEILING STRUCTURE
METAL CEILING CHANNEL. FRAME AROUND FIXTURE AS REQUIRED

12 FLUSH FIXTURE MOUNTING



13 RECESSED MOUNTED PANEL



14 SURFACE FIXTURE MOUNTING N.T.S.

15

16

17

18

19

20

Klassen corporation
Architecture Construction
2021 Westwind Drive
Bakersfield, CA 93301
(661) 324-3000
(661) 324-3900 Fax
www.klassencorp.com

REGISTERED PROFESSIONAL ENGINEER
E 18218
ELECTRICAL
STATE OF CALIFORNIA
[illegible]

TENANT IMPROVEMENTS
SAN JOAQUIN VALLEY PULMONARY
5801 TRUXTUN AVE, BAKERSFIELD CA 933309

MARK	ISSUED FOR	DATE
◁	OWNER SD SUBMITTAL	07/01/19
◁	OWNER DD SUBMITTAL	07/31/19
◁	OWNER CD SUBMITTAL	08/15/19
◁		
◁		
◁		
◁		

Project No. : C19-148

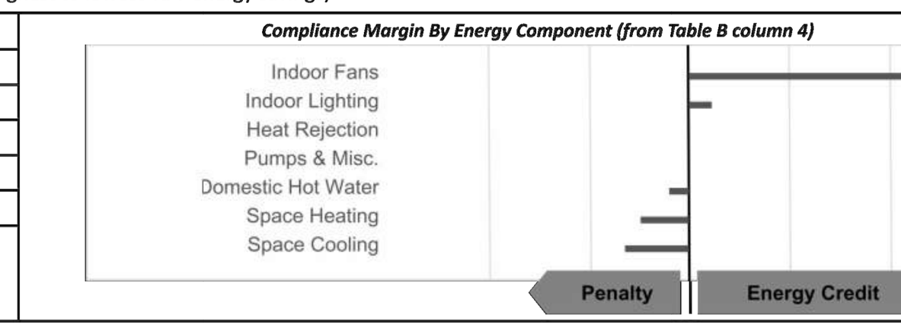
ELECTRICAL DETAILS

E9.0

C. PRIORITY PLAN CHECK/ INSPECTION ITEMS (in order of highest to lowest TDV energy savings)

1st	Indoor Fans: Check envelope and mechanical
2nd	Indoor Lighting: Check lighting
3rd	Heat Rejection: Check envelope and mechanical
4th	Pumps & Misc.: Check mechanical
5th	Domestic Hot Water: Check mechanical
6th	Space Heating: Check envelope and mechanical
7th	Space Cooling: Check envelope and mechanical

Compliance Margin By Energy Component (from Table B column 4)



D. EXCEPTIONAL CONDITIONS

This project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylit Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-LTI-02-E) for the requirements of section 140.6(d) Automatic Daylighting Controls in Secondary Daylit Zones is required.

This project includes Domestic Hot Water in the analysis. Please verify that Domestic Hot Water is included in the design for the permitted scope of work.

E. HERS VERIFICATION

This Section Does Not Apply

F. ADDITIONAL REMARKS

None Provided

A. PROJECT GENERAL INFORMATION

1.	Project Location (city)	- specify -	8.	Standards Version	Compliance2016
2.	CA Zip Code		9.	Compliance Software (version)	EnergyPro 7.2
3.	Climate Zone	13	10.	Weather File	BAKERSFIELD_723840_CZ2010.epw
4.	Total Conditioned Floor Area in Scope	6,695 ft²	11.	Building Orientation (deg)	(N) 0 deg
5.	Total Unconditioned Floor Area	0 ft²	12.	Permitted Scope of Work	NewComplete
6.	Total # of Stories (Habitable Above Grade)	1	13	Building Type(s)	Nonresidential
7.	Total # of dwelling units	0	14	Gas Type	NaturalGas

B. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft ²-yr) § 140.1

BUILDING COMPLIES

1. Energy Component	2. Standard Design (TDV)	3. Proposed Design (TDV)	4. Compliance Margin (TDV)	5. Percent Better than Standard
Space Heating	8.65	19.23	-10.58	-122.3%
Space Cooling	97.28	111.19	-13.91	-14.3%
Indoor Fans	100.76	37.51	63.25	62.8%
Heat Rejection	--	--	--	--
Pumps & Misc.	--	--	--	--
Domestic Hot Water	2.96	7.40	-4.44	-150.0%
Indoor Lighting	41.60	37.04	4.56	11.0%
COMPLIANCE TOTAL	**251.25**	**212.37**	**38.88**	**15.5%**
Receptacle	107.64	107.64	0.0	0.0%
Process	--	--	--	--
Other Ltg	--	--	--	--
Process Motors	--	--	--	--
TOTAL	**358.89**	**320.01**	**38.9**	**10.8%**

G. COMPLIANCE PATH & CERTIFICATE OF COMPLIANCE SUMMARY

Identify which building components use the performance or prescriptive path for compliance. "NA"= not in project

For components that utilize the performance path, indicate the sheet number that includes mandatory notes on plans.

Building Component		Compliance Path	Compliance Forms *(required for submittal)*	Location of Mandatory Notes on Plans
Envelope	☒	Performance	NRCC-PRF-ENV-DETAILS (section of the NRCC-PRF-01-E)	
	☐	Prescriptive	NRCC-ENV-01 / 02 / 03 / 04 / 05 / 06-E	
	☐	NA		
Mechanical	☒	Performance	NRCC-PRF-MCH-DETAILS (section of the NRCC-PRF-01-E)	
	☐	Prescriptive	NRCC-MCH-01 / 02 / 03 / 04 / 05 / 06 / 07-E	
	☐	NA		
Domestic Hot Water	☒	Performance	NRCC-PRF-PLB-DETAILS (section of the NRCC-PRF-01-E)	
	☐	Prescriptive	NRCC-PLB-01-E	
	☐	NA		
Lighting (Indoor Conditioned)	☒	Performance	NRCC-PRF-LTI-DETAILS (section of the NRCC-PRF-01-E)	
	☐	Prescriptive	NRCC-LTI-01 / 02 / 03 / 04 / 05-E	
	☐	NA		
Covered Process: Commercial Kitchens	☐	Performance	S2 (section of the NRCC-PRF-01-E)	
	☐	Prescriptive	NRCC-PRC-01/ 03-E	
	☒	NA		
Covered Process: Computer Rooms	☐	Performance	S3 (section of the NRCC-PRF-01-E)	
	☐	Prescriptive	NRCC-PRC-01/ 04-E	
	☒	NA		
Covered Process: Laboratory Exhaust	☐	Performance	S4 (section of the NRCC-PRF-01-E)	
	☐	Prescriptive	NRCC-PRC-01/ 09-E	
	☒	NA		

G. COMPLIANCE PATH & CERTIFICATE OF COMPLIANCE SUMMARY

The following building components are only eligible for prescriptive compliance. Indicate which are relevant to the project.				*The following building components may have mandatory requirements per Part 6. Indicate which are relevant to the project.*			
Yes	**NA**	**Prescriptive Requirement**	**Compliance Forms**	**Yes**	**NA**	**Mandatory Requirement**	**Compliance Forms**
☐	☒	Lighting (Indoor Unconditioned) §140.6	NRCC-LTI-01 / 02 / 03 / 04 / 05-E	☐ ☐	☒ ☒	Commissioning: §120.8 Simple Systems Complex Systems	NRCC-CXR-01 / 02 / 03 / 05-E NRCC-CXR-01 / 02 / 04 / 05-E
☐	☒	Lighting (Outdoor) §140.7	NRCC-LTO-01 / 02 / 03-E	☐	☒	Electrical: §130.5	NRCC-ELC-01-E
☐	☒	Lighting (Sign) §140.8	NRCC-LTS-01-E	☐	☒	Solar Ready: §110.10	NRCC-SRA-01 / 02-E
☐	☒	Solar Thermal Water Heating: §140.5	NRCC-STH-01-E	☐ ☐ ☐ ☐ ☐ ☐	☒ ☒ ☒ ☒ ☒ ☒	Covered Process: §120.6 Parking Garage Commercial Refrigeration Warehouse Refrigeration Compressed Air Process Boilers	NRCC-PRC-01-E NRCC-PRC-02-E NRCC-PRC-05-E NRCC-PRC-06/07/08-E NRCC-PRC-10-E NRCC-PRC-11-E

H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) – Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify). See Tables G. and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment. — **Confirmed**

Building Component	Compliance Forms *(required for submittal)*	Pass	Fail
Envelope	☒ NRCI-ENV-01-E - For all buildings	☐	☐
	☒ NRCA-ENV-02-F- NFRC label verification for fenestration	☐	☐
Mechanical	☒ NRCI-MCH-01-E - For all buildings with Mechanical Systems	☐	☐
	☒ NRCA-MCH-02-A- Outdoor Air	☐	☐
	☒ NRCA-MCH-03-A – Constant Volume Single Zone HVAC	☐	☐
	☐ NRCA-MCH-04-H- Air Distribution Duct Leakage	☐	☐
	☐ NRCA-MCH-05-A- Air Economizer Controls	☐	☐
	☐ NRCA-MCH-06-A- Demand Control Ventilation	☐	☐
	☐ NRCA-MCH-07-A – Supply Fan Variable Flow Controls	☐	☐
	☐ NRCA-MCH-08-A- Valve Leakage Test	☐	☐
	☐ NRCA-MCH-09-A – Supply Water Temp Reset Controls	☐	☐
	☐ NRCA-MCH-10-A- Hydronic System Variable Flow Controls	☐	☐
	☐ NRCA-MCH-11-A – Auto Demand Shed Controls	☐	☐
	☐ NRCA-MCH-12-A- Packaged Direct Expansion Units	☐	☐
	☐ NRCA-MCH-13-A- Air Handling Units and Zone Terminal Units	☐	☐
	☐ NRCA-MCH-14-A- Distributed Energy Storage	☐	☐
	☐ NRCA-MCH-15-A – Thermal Energy Storage	☐	☐
	☐ NRCA-MCH-16-A- Supply Air Temp Reset Controls	☐	☐
	☐ NRCA-MCH-17-A – Condensate Water Temp Reset Controls	☐	☐
	☐ NRCA-MCH-18-A- Energy Management Controls Systems	☐	☐
	☐ NRCV-MCH-04-H- Duct Leakage Test	☐	☐

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Building Component	Compliance Forms *(required for submittal)*	Pass	Fail
Plumbing	☒ NRCI-PLB-01-E - For all buildings with Plumbing Systems	☐	☐
	☐ NRCI-PLB-02-E - required on central systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-PLB-03-E - Single dwelling unit systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-PLB-21-E - HERS verified central systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-PLB-22-E - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCV-PLB-21-H- HERS verified central systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCV-PLB-22-H - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-STH-01-E - Any solar water heating	☐	☐
Indoor Lighting	☒ NRCI-LTI-01-E - For all buildings	☐	☐
	☐ NRCI-LTI-02-E - Lighting control system, or for an Energy Management Control System (EMCS)	☐	☐
	☐ NRCI-LTI-03-E - Line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting	☐	☐
	☐ NRCI-LTI-04-E - Two interlocked systems serving an auditorium, a convention center, a conference room, or a theater	☐	☐
	☐ NRCI-LTI-05-E - Lighting Control Credit Power Adjustment Factor (PAF)	☐	☐
	☐ NRCI-LTI-06-E - Additional wattage installed in a video conferencing studio	☐	☐
	☒ NRCA-LTI-02-A - Occupancy sensors and automatic time switch controls.	☐	☐
	☒ NRCA-LTI-03-A - Automatic daylighting controls	☐	☐
	☐ NRCA-LTI-04-A - Demand responsive lighting controls	☐	☐
Outdoor Lighting	☐ NRCI-LTO-01-E – Outdoor Lighting	☐	☐
	☐ NRCI-LTO-02-E- EMCS Lighting Control System	☐	☐
	☐ NRCA-LTO-02-A - Outdoor Lighting Control	☐	☐
Sign Lighting	☐ NRCI-LTS-01-E – Sign Lighting	☐	☐
Electrical	☐ NRCI-ELC-01-E - Electrical Power Distribution	☐	☐
Photovoltaic	☐ NRCI-SPV-01-E Photovoltaic Systems	☐	☐

H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) – Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify). See Tables G. and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment. — **Confirmed**

Building Component	Compliance Forms *(required for submittal)*	Pass	Fail
Covered Process	☐ NRCI-PRC-01-E Covered Processes	☐	☐
	☐ NRCA-PRC-01-F- Compressed Air Systems	☐	☐
	☐ NRCA-PRC-02-F- Kitchen Exhaust	☐	☐
	☐ NRCA-PRC-03-F- Garage Exhaust	☐	☐
	☐ NRCA-PRC-04-F- Refrigerated Warehouse- Evaporator Fan Motor Controls	☐	☐
	☐ NRCA-PRC-05-F- Refrigerated Warehouse- Evaporative Condenser Controls	☐	☐
	☐ NRCA-PRC-06-F- Refrigerated Warehouse- Air Cooled Condenser Controls	☐	☐
	☐ NRCA-PRC-07F- Refrigerated Warehouse- Variable Speed Compressor	☐	☐
	☐ NRCA-PRC-08-F- Electrical Resistance Underslab Heating System	☐	☐

I. ENVELOPE GENERAL INFORMATION (See NRCC-PRF-ENV-DETAILS for more information)

						Confirmed	
1.	Total Conditioned Floor Area	6,695 ft²	5.	Number of Floors Above Grade	1	Pass	Fail
2.	Total Unconditioned Floor Area	0 ft²	6.	Number of Floors Below Grade	0		
3.	Addition Conditioned Floor Area	0 ft²					
4.	Addition Unconditioned Floor Area	0 ft²					

7. Opaque Surfaces & Orientation	8. Total Gross Surface Area	9. Total Fenestration Area	10. Window to Wall Ratio	Pass	Fail
North Wall	2,230 ft²	1,590 ft²	71.3%	☐	☐
East Wall	500 ft²	360 ft²	72.0%	☐	☐
South Wall	2,000 ft²	1,750 ft²	87.5%	☐	☐
West Wall	540 ft²	360 ft²	66.7%	☐	☐
Total	**5,270 ft²**	**4,060 ft²**	**77.0%**	☐	☐
Roof	6,695 ft²	0 ft²	00.0%	☐	☐

J. FENESTRATION ASSEMBLY SUMMARY § 110.6 — Confirmed

1. Fenestration Assembly Name / Tag or I.D.	2. Fenestration Type / Product Type / Frame Type	3. Certification Method¹	4. Assembly Method	5. Area ft²	6. Overall U-factor	7. Overall SHGC	8. Overall VT	9. Status²	Pass	Fail
Double Metal Clear	VerticalFenestration FixedWindow MetalFraming	Default Performance	SiteBuilt	2310	0.71	0.60	0.77	N	☐	☐
Residential Prescriptive	VerticalFenestration FixedWindow N/A	NFRC Rated	Manufactured	1750	0.32	0.25	0.50	N	☐	☐

[1] Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.
[2] Status: N - New, A – Altered, E – Existing

Taking compliance credit for fenestration shading devices? (if "Yes", see NRCC-PRF-ENV-DETAILS for more information)	No

K. OPAQUE SURFACE ASSEMBLY SUMMARY § 120.7/ § 140.3 — Confirmed

1. Surface Name	2. Surface Type	3. Area (ft²)	4. Framing Type	5. Cavity R-Value	6. Continuous R-Value	7. U-Factor / F-Factor / C-Factor	8. Status¹	Pass	Fail
R-19 Wall9	ExteriorWall	5270	Wood	19	NA	U-Factor: 0.072	N	☐	☐
Slab On Grade18	UndergroundFloor	6695	NA	0	NA	F-Factor: 0.730	N	☐	☐
R-30 Roof Attic20	Roof	6695	Wood	30	NA	U-Factor: 0.038	N	☐	☐

[1] Status: N - New, A – Altered, E – Existing

L. ROOFING PRODUCT SUMMARY § 140.3 — Confirmed

1. Product Type	2. Product Density (lb/ft²)	3. Aged Solar Reflectance	4. Thermal Emittance	5. SRI	6. Cool Roof Credit	7. Roofing Product Description	Pass	Fail
R-30 Roof Attic20	5.895	0.08	0.75	NA	No	NA	☐	☐

M. HVAC SYSTEM SUMMARY (see NRCC-PRF-MCH-DETAILS for more information) § 110.1 / § 110.2

Dry System Equipment ¹ (Fan & Economizer info included below in Table N) — Confirmed

1. Equip Name	2. Equip Type	3. System Type (Simple ² or Complex ³)	4. Qty	5. Total Heating Output (kBtu/h)	6. Supp Heat Source (Y/N)	7. Supp Heat Output (kBtuh)	8. Total Cooling Output (kBtu/h)	9. Efficiency Cooling	9. Efficiency Heating	10. Acceptance Testing Required? (Y/N) ⁴	11. Status⁵	Pass	Fail
5 TON RTU AC.17	SZAC (Packaged3Phase)	Simple	2	80	No	0	58	SEER-14.00 / EER-12.20	AFUE-82.0	No	N	☐	☐
3 TON RTU AC.56810	SZAC (Packaged3Phase)	Simple	4	80	No	0	35	SEER-14.00 / EER-12.20	AFUE-82.0	Yes	N	☐	☐
7.5 TON RTU AC.234	SZAC (Packaged3Phase)	Simple	1	100	No	0	86	EER-12.2	AFUE-82.0	Yes	N	☐	☐
3 RTU	SZAC (Packaged3Phase)	Simple	1	80	No	0	35	SEER-14.00 / EER-12.20	AFUE-82.0	Yes	N	☐	☐
IT ROOM MINI SPLIT	SZHP (CRAC)	Simple	1	9	No	0	9	SEER-14.00 / EER-12.50	HSPF-14.00	Yes	N	☐	☐

[1] Dry System Equipment includes furnaces, air handling units, heat pumps, etc.
[2] Simple Systems must complete NRCC-CXR-03-E commissioning design review form
[3] Complex Systems must complete NRCC-CXR-04-E commissioning design review form
[4] A summary of which acceptance tests are applicable is provided in NRCC-PRF-MCH-DETAILS
[5] Status: N - New, A – Altered, E – Existing

Wet System Equipment ¹ / *Pumps* — Confirmed

12. Equip Name	13. Equip Type	14. Qty	15. Vol (gal)	16. Rated Capacity (kBtu/h)	17. Efficiency	18. Standby Loss	19. Tank Ext. R Value	20. Qty	21. GPM	22. HP	23. VSD (Y/N)	24. Status²	Pass	Fail
50 Gallon Electric2	Storage	1	50.00	15	EF: 0.93	SBLF: NA	NA		NA		No	N	☐	☐

[1] Wet System Equipment includes boilers, chillers, cooling towers, water heaters, etc.
[2] Status: N - New, A – Altered, E – Existing

Discrepancy between modeled and designed equipment sizing? (If "Yes", see Table F. "Additional Remarks" for an explanation)	No

N. ECONOMIZER & FAN SYSTEMS SUMMARY¹ § 140.4 — Confirmed

1. Equip Name	2. Outside Air CFM	3. Supply Fan CFM	HP	BHP	TSP (inch WC)	Control	4. Return Fan CFM	HP	BHP	TSP (inch WC)	Control	5. Economizer Type (if present)	Pass	Fail
5 TON RTU AC.17	171	2000	0.260	0.260	0.49	ConstantVolume	NA	NA	NA	NA	NA	NoEconomizer	☐	☐
3 TON RTU AC.56810	84	1200	0.200	0.200	0.53	ConstantVolume	NA	NA	NA	NA	NA	NoEconomizer	☐	☐
7.5 TON RTU AC.234	182	3000	0.310	0.310	0.39	ConstantVolume	NA	NA	NA	NA	NA	NoEconomizer	☐	☐
3 RTU	135	1200	0.200	0.200	0.53	ConstantVolume	NA	NA	NA	NA	NA	NoEconomizer	☐	☐
IT ROOM MINI SPLIT	10	300	0.180	0.180	1.90	ConstantVolume	NA	NA	NA	NA	NA	NoEconomizer	☐	☐

[1] Mechanical ventilation calculations and exhaust fans are included in the NRCC-PRF-MCH-DETAILS section

O. EQUIPMENT CONTROLS § 120.2 — Confirmed

1. Equip Name	2. Equip Type	3. Controls	Pass	Fail
5 TON RTU AC.17	SZAC	No DCV Controls No Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler No Heat Recovery	☐	☐
3 TON RTU AC.56810	SZAC	No DCV Controls No Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler No Heat Recovery	☐	☐

O. EQUIPMENT CONTROLS § 120.2 — Confirmed

1. Equip Name	2. Equip Type	3. Controls	Pass	Fail
7.5 TON RTU AC.234	SZAC	No DCV Controls No Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler No Heat Recovery	☐	☐
3 RTU	SZAC	No DCV Controls No Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler No Heat Recovery	☐	☐
IT ROOM MINI SPLIT	SZHP	No DCV Controls No Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler No Heat Recovery	☐	☐
Plant1 - SHW	Service Hot Water, Primary Only	Fixed Temperature Control, No DDC No Heat Recovery	☐	☐

P. SYSTEM DISTRIBUTION SUMMARY § 120.4/ § 140.4(l)

Dry System Distribution — Confirmed

1. Equip Name	2. Equip Type	3. Duct Leakage and Sealing Required per 140.4(l)	4. Duct Leakage will be verified per NA1 and NA2	5. Ducts Insulation R-Value	5. Ducts Location	6. Status¹	Pass	Fail
5 TON RTU AC.17	SZAC	No	No	8	Unconditioned	N	☐	☐
3 TON RTU AC.56810	SZAC	No	No	8	Unconditioned	N	☐	☐
7.5 TON RTU AC.234	SZAC	No	No	8	Unconditioned	N	☐	☐
3 RTU	SZAC	No	No	8	Unconditioned	N	☐	☐
IT ROOM MINI SPLIT	SZHP	No	No	8	Unconditioned	N	☐	☐

[1] Status: N - New, E – Existing

Does the Project Include Zonal Systems? (If "Yes", see NRCC-PRF-MCH-DETAILS for system information)	No
Does the Project Include a Solar Hot Water System? (If "Yes", see NRCC-PRF-MCH-DETAILS for system information)	No
Multifamily or Hotel/ Motel Occupancy? (If "Yes", see NRCC-PRF-MCH-DETAILS for DHW system information)	No

Q. INDOOR CONDITIONED LIGHTING GENERAL INFO (see NRCC-PRF-LTI-DETAILS for more info)³ § 140.6 — Confirmed

1. Occupancy Type ¹	2. Conditioned Floor Area ² (ft²)	3. Installed Lighting Power (Watts)	4. Lighting Control Credits (Watts)	5. Additional (Custom) Allowance: Area Category Footnotes (Watts)	5. Additional (Custom) Allowance: Tailored Method (Watts)	Pass	Fail
Office (Greater than 250 square feet in floor area)	6,695	4,470	0	0	0	☐	☐
Building Totals:	**6,695**	**4,470**	**0**	**0**	**0**		

[1] See Table 140.6-C
[2] See NRCC-LTI-01-E for unconditioned spaces
[3] Lighting information for existing spaces modeled is not included in the table

R. INDOOR CONDITIONED LIGHTING SCHEDULE (Adapted from NRCC-LTI-01-E)¹ § 130.0

Luminaire Schedule (includes all permanent installed lighting in conditioned space, and portable lighting over 0.3 w/ft² in offices) — Installed Watts (Conditioned) — Confirmed

Name or Item Tag	Complete Luminaire Description (i.e., 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per luminaire	How Wattage is Determined: CEC Default from NA8	How Wattage is Determined: According to §130.0(c)	Total Number Luminaires	Installed Watts	Pass	Fail
EXISTING	EXISTING	48	No	Yes	1	48	☐	☐
F1	F1	48	No	Yes	48	2,304	☐	☐
F3	F3	32	No	Yes	12	384	☐	☐
F4	F4	16	No	Yes	1	16	☐	☐
F5	F5	11	No	Yes	3	32	☐	☐
F6	F6	47	No	Yes	20	940	☐	☐
F7	F7	35	No	Yes	2	69	☐	☐

[1] If lighting power densities were used in the compliance model Building Departments will need to check prescriptive forms for Luminaire Schedule details.

S1. COVERED PROCESS SUMMARY – ENCLOSED PARKING GARAGES § 140.9

This Section Does Not Apply

S2. COVERED PROCESS SUMMARY – COMMERCIAL KITCHENS § 140.9

This Section Does Not Apply

S3. COVERED PROCESS SUMMARY – COMPUTER ROOMS § 140.9

Computer Room System Name	Cooling Capacity (tons)	Economizer Type	Fan Power (watts)	Confirmed Pass	Confirmed Fail
IT ROOM MINI SPLIT	0.8	None	0.16	☐	☐

S4. COVERED PROCESS SUMMARY – LABORATORY EXHAUSTS § 140.9

This Section Does Not Apply

T. UNMET LOAD HOURS

This Section Does Not Apply

U. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	--	0.0	--	34.2	76.2	-42.0
Space Cooling	17.0	20.2	-3.2	--	--	--
Indoor Fans	30.5	11.4	19.1	--	--	--
Heat Rejection	--	--	--	--	--	--
Pumps & Misc.	--	--	--	--	--	--
Domestic Hot Water	--	2.1	--	13.9	--	--
Indoor Lighting	11.3	10.1	1.2	--	--	--
COMPLIANCE TOTAL	**58.8**	**43.8**	**15.0**	**48.1**	**76.2**	**-28.1**
Receptacle	28.7	28.7	0.0	--	--	--
Process	--	--	--	--	--	--
Other Ltg	--	--	--	--	--	--
Process Motors	--	--	--	--	--	--
TOTAL	**87.5**	**72.5**	**15.0**	**48.1**	**76.2**	**-28.1**

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT § 10-103

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: FRANK CANTELMI	Signature:
Company: Cantelmi engineering, Inc.	
Address: 2130 F STREET	Signature Date:
City/State/Zip: BAKERSFIELD CA	CEA Identification (If applicable): 21190
Phone: 661-324-5252	

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer, mechanical engineer, electrical engineer, or I am a licensed architect.
2. I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.
3. I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 6737.1.

Responsible Envelope Designer Name: KLASSEN	**Signature:**	
Company: KLASSEN		
Address: 2021 WESTWIND DR	Date Signed:	
City/State/Zip: BAKERSFIELD CA 93301	Declaration Statement Type:	
Phone: 661-324-3000	Title:	License #:
Responsible Lighting Designer Name: FRANK CANTELMI	**Signature:**	
Company: CANTELMI ENG		
Address: 2130 F ST.	Date Signed:	
City/State/Zip: BAKERSFIELD CA	Declaration Statement Type:	
Phone: 6613245252	Title:	License #: 21190
Responsible Mechanical Designer Name: FRANK CANTELMI	**Signature:**	
Company: CANTELMI ENG		
Address: 2130 F ST.	Date Signed:	
City/State/Zip: BAKERSFIELD CA	Declaration Statement Type:	
Phone: 6613245252	Title:	License #: 21190

NRCC-PRF-ENV-DETAILS -SECTION START-

A. OPAQUE SURFACE ASSEMBLY DETAILS — Confirmed

1. Surface Name	2. Surface Type	3. Description of Assembly Layers	4. Notes	Pass	Fail
R-19 Wall9	ExteriorWall	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Wood framed wall, 16in. OC, 5.5in., R-19 Gypsum Board - 1/2 in.		☐	☐
Slab On Grade18	UndergroundFloor	Slab Type = UnheatedSlabOnGrade Insulation Orientation = None Insulation R-Value = R0		☐	☐
R-30 Roof Attic20	Roof	Asphalt shingles - 1/4 in. Vapor permeable felt - 1/8 in. Plywood - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Wood framed roof, 24in. OC, 3.5in., R-30 Gypsum Board - 1/2 in.		☐	☐

B. OVERHANG DETAILS (Adapted from NRCC-ENV-02-E)

This Section Does Not Apply

C. OPAQUE DOOR SUMMARY — Confirmed

1. Opaque Door Assembly Name / Tag or I.D.	2. Door Type	3. Certification Method	4. Operation	5. Area	6. Overall U-factor	7. Status¹	Pass	Fail
Wood Door16	WoodGreaterThanOrEqualTo1.75inThickDoor	DefaultPerformance	Swinging	24	0.500	N	☐	☐

[1] Status: N - New, A – Altered, E – Existing

Klassen corporation
Architecture Construction
2021 Westwind Drive
Bakersfield, CA 93301
(661) 324-3000
(661) 324-3900 Fax
www.klassencorp.com

TENANT IMPROVEMENTS
SAN JOAQUIN VALLEY PULMONARY
5801 TRUXTUN AVE, BAKERSFIELD CA 933309

MARK	ISSUED FOR	DATE
△	OWNER SD SUBMITTAL	07/01/19
△	OWNER DD SUBMITTAL	07/31/19
△	OWNER CD SUBMITTAL	08/15/19
△		
△		
△		
△		

Project No. : C19-148

TITLE 24

EC-1

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NRCC-PRF-MCH-DETAILS -SECTION START-

A. MECHANICAL VENTILATION AND REHEAT *(Adapted from 2016-NRCC-MCH-03-E)*																		Confirmed	
1. DESIGN AIR FLOWS								2. VENTILATION (§ 120.1)											
CONDITIONED ZONE NAME	HEATING/COOLING SYSTEM ID	DESIGN PRIMARY AIR FLOW (CFM)	DESIGN PRIMARY MINIMUM AIR FLOW (CFM)	MINIMUM PRIMARY AIR FLOW FRACTION	MAXIMUM HEATING AIR FLOW (CFM)	MAXIMUM HEATING AIR FLOW FRACTION	DDC CONTROL (Y/N)	VENT SYSTEM ID	CONDITIONED AREA (ft2)	MIN. VENT PER AREA (CFM/ft2)	DESIGN NUM. OF PEOPLE	MIN. VENT PER PERSON (CFM/person)	REQ'D VENT AIR FLOW (CFM)	DESIGN VENT AIR FLOW (CFM)	TRANSFER AIRFLOW (CFM)	DCV (Y/N)	Operable Window Interlock § 140.4(n) (Y/N)	Pass	Fail
1-Zone 17	5 TON RTU AC.17	2,000	NA	NA	NA	NA	N	5 TON RTU AC.17	2,279	NA	11.39	30.00	342	342	NA	N	NA	☐	☐
2-Zone AC 56810	3 TON RTU AC.56810	1,200	NA	NA	NA	NA	N	3 TON RTU AC.56810	2,235	NA	11.18	30.00	335	335	NA	N	NA	☐	☐
3-Zone 234	7.5 TON RTU AC.234	3,000	NA	NA	NA	NA	N	7.5 TON RTU AC.234	1,213	NA	6.07	30.00	182	182	NA	N	NA	☐	☐
4-Zone	3 RTU	1,200	NA	NA	NA	NA	N	3 RTU	901	NA	4.50	30.00	135	135	NA	N	NA	☐	☐
5-IT ROOM Zone	IT ROOM MINI SPLIT	300	NA	NA	NA	NA	N	IT ROOM MINI SPLIT	67	NA	0.34	30.00	10	10	NA	N	NA	☐	☐
								TOTAL	6,695		33.48		1,004	1,004	NA			☐	☐

B. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY															§ 140.4	
1.	2.	3.	4.		5.	6.	7.			8.					Confirmed	
System ID	System Type	Qty	Rated Capacity (kBtuh)		Economizer	Zone Name	Airflow (cfm)			Fan					Pass	Fail
			Heating	Cooling			Design	Min.	Min. Ratio	BHP	Cycles	ECM Motor				
1-Zone 17-Trm	Uncontrolled	2	NA	NA	NA	1-Zone 17	2000	NA	NA	NA	NA	☐			☐	☐
2-Zone AC 56810-Trm	Uncontrolled	4	NA	NA	NA	2-Zone AC 56810	1200	NA	NA	NA	NA	☐			☐	☐
3-Zone 234-Trm	Uncontrolled	1	NA	NA	NA	3-Zone 234	3000	NA	NA	NA	NA	☐			☐	☐

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B. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY													§ 140.4	
1.	2.	3.	4.		5.	6.	7.			8.			Confirmed	
System ID	System Type	Qty	Rated Capacity (kBtuh)		Economizer	Zone Name	Airflow (cfm)			Fan			Pass	Fail
			Heating	Cooling			Design	Min.	Min. Ratio	BHP	Cycles	ECM Motor		
4-Zone-Trm	Uncontrolled	1	NA	NA	NA	4-Zone	1200	NA	NA	NA	NA	☐	☐	☐
5-IT ROOM Zone-Trm	Uncontrolled	1	NA	NA	NA	5-IT ROOM Zone	300	NA	NA	NA	NA	☐	☐	☐

C. EXHAUST FAN SUMMARY
This Section Does Not Apply

D. DHW EQUIPMENT SUMMARY – *(Adapted from NRCC-PLB-01)*									§ 110.3		Confirmed	
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.		
DHW Name	Heater Element Type	Tank Type	Qty	Tank Vol (gal)	Rated Input (kBtu/h)	Efficiency	Tank Insulation R-value (Int/Ext)	Standby Loss Fraction	Heat Pump Type	Tank Location or Ambient Condition	Pass	Fail
50 Gallon Electric2	Electricity	Storage	1	50.00	15	EF: 0.93	NA	SBLF: NA	NA	NA	☐	☐

E. MULTI-FAMILY CENTRAL DHW SYSTEM DETAILS
This Section Does Not Apply

F. SOLAR HOT WATER HEATING SUMMARY (Adapted from NRCC-STH-01)
This Section Does Not Apply

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G. MECHANICAL HVAC ACCEPTANCE TESTS & FORMS *(Adapted from 2016-NRCC-MCH-01-E)* § RA4

Declaration of Required Acceptance Certificates (NRCA) – Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).

Test Description		MCH-02A	MCH-03A	MCH-04A	MCH-05A	MCH-06A	MCH-07A	MCH-08A	MCH-09A	MCH-10A	MCH-11A	MCH-12A	MCH-13A	MCH-14A	MCH-15A	MCH-16A	MCH-17A	MCH-18A	Confirmed	
Equipment Requiring Testing or Verification	# of units	Outdoor Air	Single Zone Unitary	Air Dist. Ducts	Economizer Controls	DCV	Supply Fan VAV	Valve leakage	Supply Water Temp. Reset	Hyd. Variable Flow Control	Auto Demand Shed Control	FDD for DX Units	Auto FDD for Air & Zone	Dist. Energy Storage DX AC	TES Systems	Supply Air Temp. Reset	Condenser Water Reset Controls	ECMS	Pass	Fail
Plant1 - SHW	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
5 TON RTU AC.17	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
3 TON RTU AC.56810	4	X	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
7.5 TON RTU AC.234	1	X	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
3 RTU	1	X	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
IT ROOM MINI SPLIT	1	X	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐

H. EVAPORATIVE COOLER SUMMARY
This Section Does Not Apply

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NRCC-PRF-LTI-DETAILS -SECTION START-

A. INDOOR CONDITIONED LIGHTING CONTROL CREDITS (Adapted from NRCC-LTI-02-E)							§ 140.6		
Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per §140.6(a)2 and Table 140.6-A)				Control Credit Calculation			√ If Acceptance Test Required	Confirmed	
Location in Building	Occupancy Type (must meet requirements of Table 140.6-A)	Type/Description of Lighting Control (i.e., partial on occupancy sensor, manual dimming, etc.)	# of Units	Watts of Controlled Lighting	Power Adjustment Factor	Control Credit Watts		Pass	Fail
S-1-Zone 17	Office (Greater than 250 square feet in floor area)	- none specified -	1		0.00	0		☐	☐
S-1-Zone 17	Office (Greater than 250 square feet in floor area)	- none specified -	1		0.00	0		☐	☐
S-1-Zone 17	Office (Greater than 250 square feet in floor area)	- none specified -	1		0.00	0		☐	☐
S-2-Zone AC 56810	Office (Greater than 250 square feet in floor area)	- none specified -	1		0.00	0		☐	☐
S-2-Zone AC 56810	Office (Greater than 250 square feet in floor area)	- none specified -	1		0.00	0		☐	☐
S-2-Zone AC 56810	Office (Greater than 250 square feet in floor area)	- none specified -	1		0.00	0		☐	☐
S-3-Zone 234	Office (Greater than 250 square feet in floor area)	- none specified -	1		0.00	0		☐	☐
S-3-Zone 234	Office (Greater than 250 square feet in floor area)	- none specified -	1		0.00	0		☐	☐
S-3-Zone 234	Office (Greater than 250 square feet in floor area)	- none specified -	1		0.00	0		☐	☐
S-5-IT ROOM Zone	Office (Greater than 250 square feet in floor area)	- none specified -	1		0.00	0		☐	☐

B. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS (Adapted from NRCC-LTI-02-E)	§ 130.1
This Section Does Not Apply	

§130.1(a) = Manual area controls; §130.0(b) = Multi Level; §130.1(c) = Auto Shut-Off; §130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive

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C. TAILORED METHOD CONDITIONED LIGHTING POWER ALLOWANCE SUMMARY AND CHECKLIST (Adapted from NRCC-LTI-04-E)	§ 140.6
General lighting power (see Table D)	0
General lighting power from special function areas (see Table E)	NA
Additional "use it or lose it" (See Table G)	0
Total watts	0

D. GENERAL LIGHTING POWER (Adapted from NRCC-LTI-04-E)	§ 140.6-D
This Section Does Not Apply	

E. GENERAL LIGHTING FROM SPECIAL FUNCTION AREAS (Adapted from NRCC-LTI-04-E)							§ 140.6(c) 3H	
Room Number	Primary Function Area	Illuminance Value (LUX)	Room Cavity Ratio (Table G)	Allowed LPD	Floor Area (ft²)	Allowed Watts	Confirmed	
							Pass	Fail
NA	NA	NA	NA	NA	NA	NA	☐	☐

Note: Tailored Method for Special Function Areas is not currently implemented

F. ROOM CAVITY RATIO (Adapted from NRCC-LTI-04-E)							
Rectangular Spaces							
Room Number	Task/Activity Description	Room Length (ft)	Room Width (ft)	Room Cavity Height (ft)	RCR	Confirmed	
						Pass	Fail
NA	NA	NA	NA	NA	NA	☐	☐
Non-Rectangular Spaces							
This Section Does Not Apply							

Note: All applicable spaces are listed under the Non-Rectangular Spaces table

G. ADDITIONAL "USE IT OR LOSE IT" (Adapted from NRCC-LTI-04-E)						
1.	2.	3.	4.	Allowed Watts	Confirmed	
Wall Display	Combined Floor Display and Task Lighting	Combined Ornamental and Special Effects Lighting	Very Valuable Merchandise		Pass	Fail
0	0	0	0	**0**	☐	☐

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5. Wall Display
This Section Does Not Apply

6. Floor Display and Task Lighting
This Section Does Not Apply

7. Combined Ornamental and Special Effects Lighting
This Section Does Not Apply

8. Very Valuable Merchandise
This Section Does Not Apply

H. INDOOR & OUTDOOR LIGHTING ACCEPTANCE TESTS & FORMS (Adapted from NRCC-LTI-01-E and NRCC-LTO-01-E) § 130.4

Declaration of Required Acceptance Certificates (NRCA) –Acceptance Certificates that must be verified in the field. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).

Test Description		Indoor			Outdoor	Confirmed	
		NRCA-LTI-02-A	NRCA-LTI-03-A	NRCA-LTI-04-A	NRCA-LTO-02-A	Pass	Fail
Equipment Requiring Testing or Verification	# of units	Occ Sensors / Auto Time Switch	Auto Daylight	Demand Responsive	Outdoor Controls		
Occupant Sensors	1	☒	☐	☐	☐	☐	☐
Automatic Time Switch	1	☒	☐	☐	☐	☐	☐
Automatic Daylighting	1	☐	☒	☐	☐	☐	☐
Demand Responsive	0	☐	☐	☐	☐	☐	☐
Outdoor Controls	0	☐	☐	☐	☐	☐	☐

ENVELOPE MANDATORY MEASURES: NONRESIDENTIAL — ENV-MM

Project Name	Date
SAN JOAQUIN PULMONARY	*8/11/2019*

DESCRIPTION

Building Envelope Measures:

§110.8(a):	Installed insulating material shall have been certified by the manufacturer to comply with the California Quality Standards for insulating material, Title 20 Chapter 4, Article 3.
§110.8(c):	All Insulating Materials shall be installed in compliance with the flame spread rating and smoke density requirements of Sections 2602 and 707 of Title 24, Part 2.
§110.8(g):	Heated slab floors shall be insulated according to the requirements in Table 110.8-A.
§110.7(a):	All Exterior Joints and openings in the building that are observable sources of air leakage shall be caulked, gasketed, weatherstripped or otherwise sealed.
§110.6(a):	Manufactured fenestration products and exterior doors shall have air infiltration rates not exceeding 0.3 cfm/ft.² of window area, 0.3 cfm/ft.² of door area for residential doors, 0.3 cfm/ft.² of door area for nonresidential single doors (swinging and sliding), and 1.0 cfm/ft.² for nonresidential double doors (swinging).
§110.6(a):	Fenestration U-factor shall be rated in accordance with NFRC 100, or the applicable default U-factor.
§110.6(a) :	Fenestration SHGC shall be rated in accordance with NFRC 200, or NFRC 100 for site-built fenestration, or the applicable default SHGC.
§110.6(b):	Site Constructed Doors, Windows and Skylights shall be caulked between the unit and the building, and shall be weatherstripped (except for unframed glass doors and fire doors).
§120.7(a):	The opaque portions of the roof/ceiling that separates conditioned spaces from unconditioned spaces or ambient air shall meet the applicable U-Factor requirements as follows: **Metal Building-** The weighted average U-factor of the roof assembly shall not exceed 0.098. **Wood Framed and Others-** The weighted average U-factor of the roof assembly shall not exceed 0.075.
§120.7(b):	The opaque portions of walls that separate conditioned spaces from unconditioned spaces or ambient air shall meet the applicable U-factor as follows: **Metal Building-** The weighted average U-factor of the wall assembly shall not exceed 0.113. **Metal Framed-** The weighted average U-factor of the wall assembly shall not exceed 0.151. **Light Mass Walls-** A 6 inch or greater Hollow Core Concrete Masonry Unit shall have a U-factor not to exceed 0.440. **Heavy Mass Walls-** An 8 inch or greater Hollow Core Concrete Masonry Unit shall have a U-factor not to exceed 0.690. **Wood Framed and Others-** The weighted average U-factor of the wall assembly shall not exceed 0.110. **Spandrel Panels and Opaque Curtain Wall-** The weighted average U-factor of the spandrel panels and opaque curtain wall assembly shall not exceed 0.280. **Demising Walls-**. The opaque portions of framed demising walls shall meet the requirements of Item A or B below: A. Wood framed walls shall be insulated to meet a U-factor not greater than 0.099. B. Metal Framed walls shall be insulated to meet a U-factor not greater than 0.151.
§120.7(c):	The opaque portions of floors and soffits that separate conditioned spaces from unconditioned spaces or ambient air shall meet the applicable U-Factor requirements as follows: **Raised Mass Floors-** Shall have a minimum of 3 inches of lightweight concrete over a metal deck or the weighted average U-factor of the floor assembly shall not exceed 0.269. **Other Floors-**The weighted average U-factor of the floor assembly shall not exceed 0.071.

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TENANT IMPROVEMENTS
SAN JOAQUIN VALLEY PULMONARY
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MARK	ISSUED FOR	DATE
◁	OWNER SD SUBMITTAL	07/01/19
◁	OWNER DD SUBMITTAL	07/31/19
◁	OWNER CD SUBMITTAL	08/15/19
◁		
◁		
◁		
◁		

Project No. : C19-148

TITLE 24

EC-2