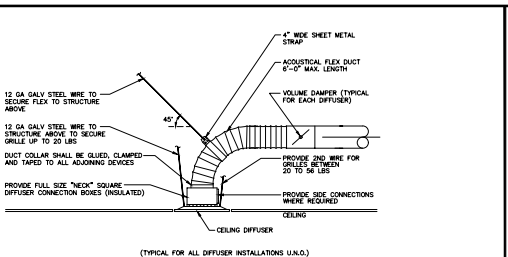


NOTES:
1. DEPTH OF MAIN DUCT MUST BE 2" LARGER THAN TAPERED TAKEOFF.
ALL TAKEOFFS SHALL BE ON 45° ANGLES. CONICAL TAKEOFFS WILL NOT BE APPROVED.

TYPICAL DUCT TAKEOFFS

NOT TO SCALE 8

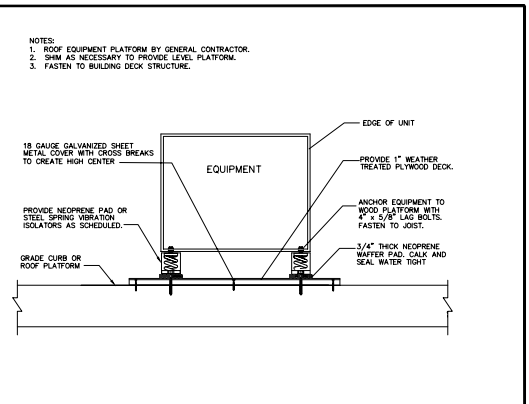


NOTE:
FOR URS 25.214, CEILING DIFFUSERS AND RETURN AIR GRILLES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION MAIN RUNNERS OR TO CROSS RUNNERS WITH THE SAME CARRYING CAPACITY AS THE MAIN RUNNERS.
IF ATTACHMENT TO CEILING SUSPENSION SYSTEM IS NOT USED, DIFFUSER/GRILLE SHALL HAVE TWO HANGERS CONNECTED FROM TERMINAL TO THE STRUCTURE ABOVE.

(TYPICAL FOR ALL DIFFUSER INSTALLATIONS U.A.O.)

TYPICAL DIFFUSER DUCTING DETAIL

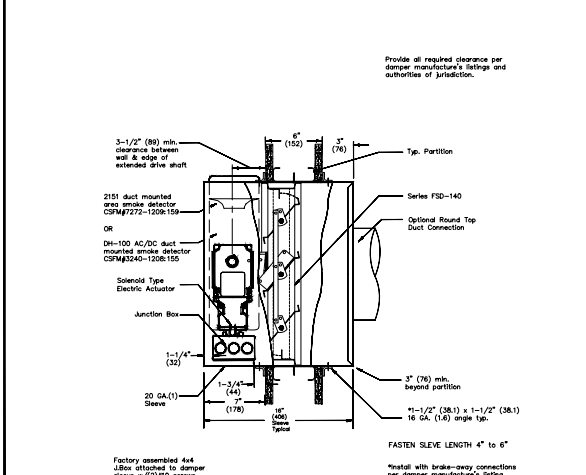
NOT TO SCALE 7



NOTES:
1. ROOF EQUIPMENT PLATFORM BY GENERAL CONTRACTOR.
2. SHIM AS NECESSARY TO PROVIDE LEVEL PLATFORM.
3. FASTEN TO BUILDING DECK STRUCTURE.

TYP. ROOF MOUNTED EQUIP. PLATFORM

NOT TO SCALE 6



Factory assembled 4x4 L-Box attached to damper sleeve w/ (2) #10 screws.

Factory assembled & attached to damper sleeve w/ (2) #10 screws.

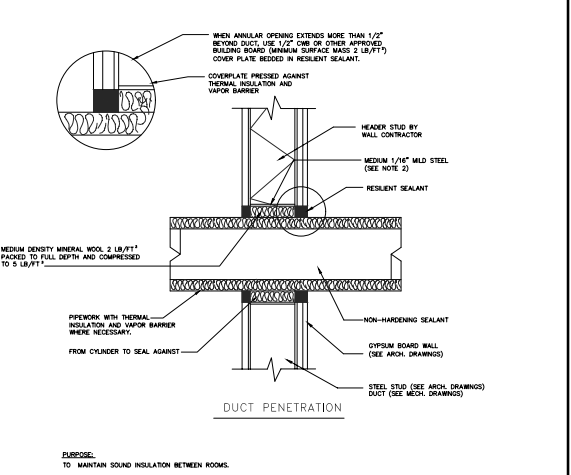
FIRE/SMOKE DAMPER SPECIFICATIONS:

ALL FIRE/SMOKE DAMPERS SHALL BE LABELED AND LISTED BY CALIFORNIA STATE FIRE MARSHAL AND/OR UNDERWRITERS LABORATORIES. ALL DAMPERS MUST ALSO BE LEAKAGE RATED AND LABELED UNDER UNDERWRITER LABORATORIES STD. 5555. WITH SILICON SEALS ALLOWING NO MORE THAN 50 (DP)/350FT. AT 1" V.S. TO 3500" F FOR A FULL 30 MIN. OPERATED TORQUE REQ'D. TO MAINTAIN LEAKAGE RATE NOT TO EXCEED 0 LBS. TORQUE. DAMPERS SHALL BE INSTALLED PER MANUFACTURERS INSTALLATION INSTRUCTIONS AND/OR STATE FIRE MARSHAL LISTING NO. 03225. PITTORFF COMPANY, INC.
(LISTING # 03225-0368110 AND 03230-0368111)
PROVIDE NON STALL SOLENOID MOTOR, 64 VA. MAXIMUM. TESTED FOR 1 YEAR CONTINUOUS POWER APPLICATIONS SUCH AS BELING CAPABLE TO REOPEN DAMPER REGARDLESS OF POWDR FAILURE LENGTH OF TIME. PROVIDE 5 YEAR DAMPER AND ACTUATOR WARRANTY.

NOTE:
STATE CALIF. FIRE MARSHALL NO. 3225-368.4
UL CLASSIFIED R6189

RATED WALL PENTRATION

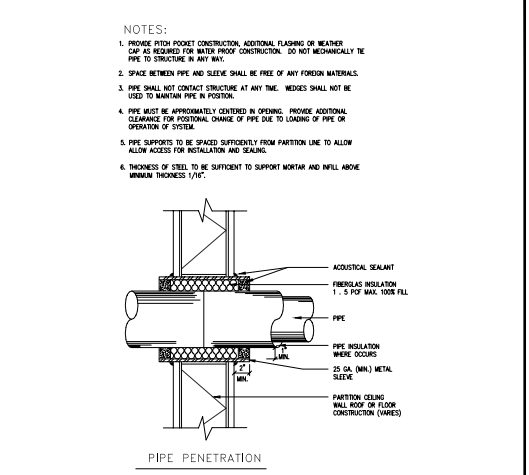
NOT TO SCALE 3



PURPOSE:
TO MAINTAIN SOUND INSULATION BETWEEN ROOMS.

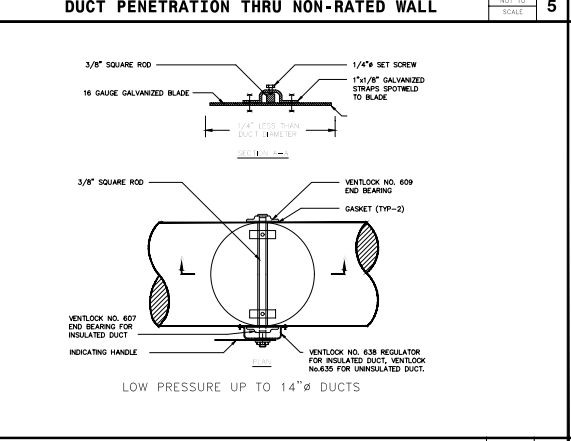
DUCT PENETRATION THRU NON-RATED WALL

NOT TO SCALE 5



PIPE PENETRATION THRU NON-RATED WALL

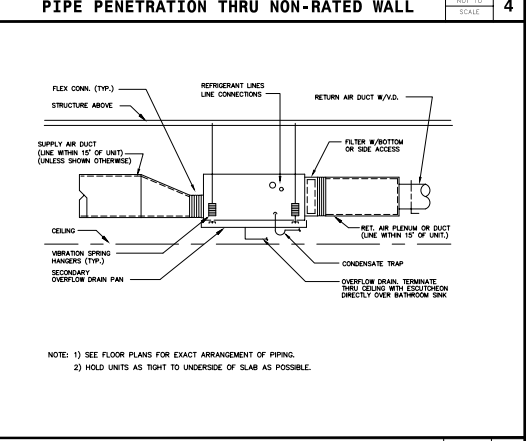
NOT TO SCALE 4



LOW PRESSURE UP TO 14" Ø DUCTS

ROUND VOLUME DAMPER

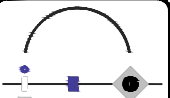
NOT TO SCALE 2



NOTE: 1) SEE FLOOR PLANS FOR EXACT ARRANGEMENT OF PIPING.
2) HOLD UNITS AS TIGHT TO UNDERSIDE OF SLAB AS POSSIBLE.

TYPICAL FAN COIL DETAIL

NOT TO SCALE 1



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Pasadena, California 91106
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ROSE AND CROWN HOTEL

1200 E COLORADO BLVD
PASADENA, CA 91106



NO.	REVISION/ISSUE	DATE
	REVISION SET	2016-03-01
	PLAN CHECK SET	2016-03-01
	PLAN CHECK CORRECTIONS	2016-03-15
	PLAN CHECK RESUBMIT	2016-03-20
	PLAN CHECK RESUBMIT	2016-03-20

MECHANICAL DETAILS

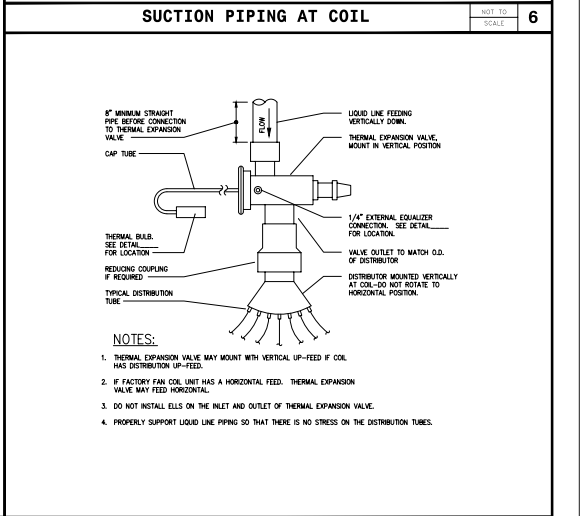
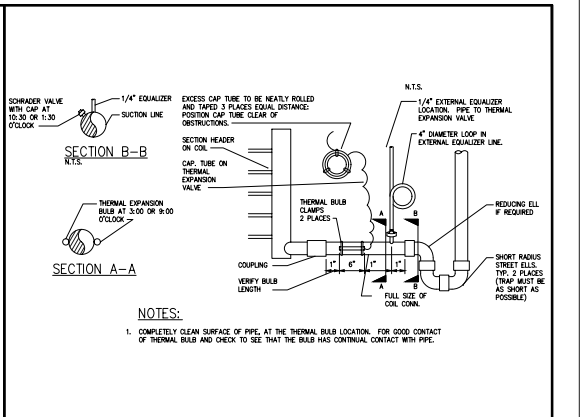
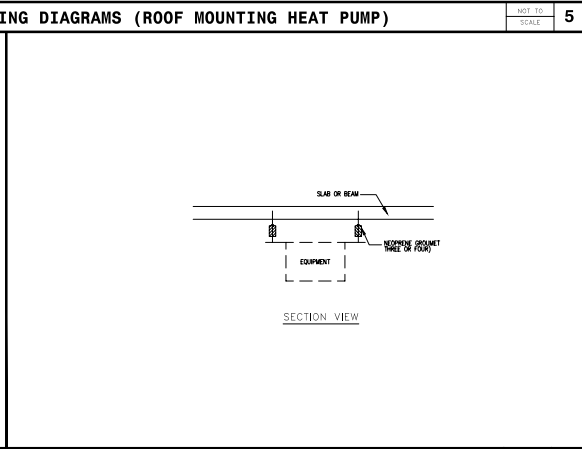
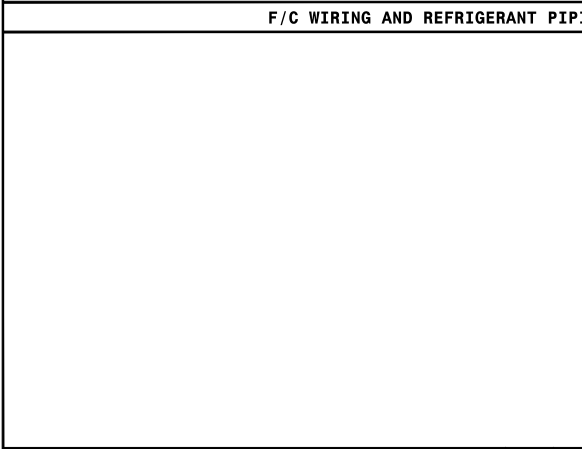
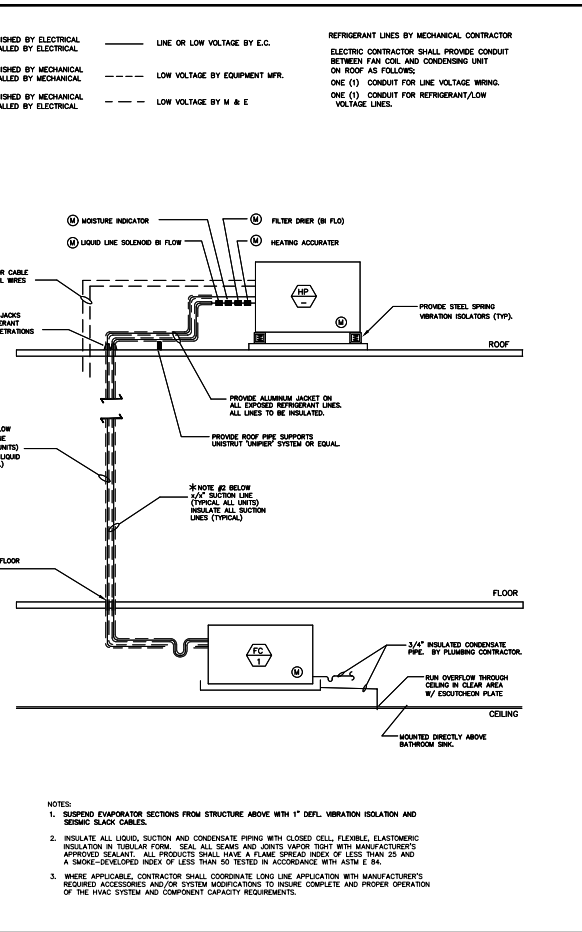
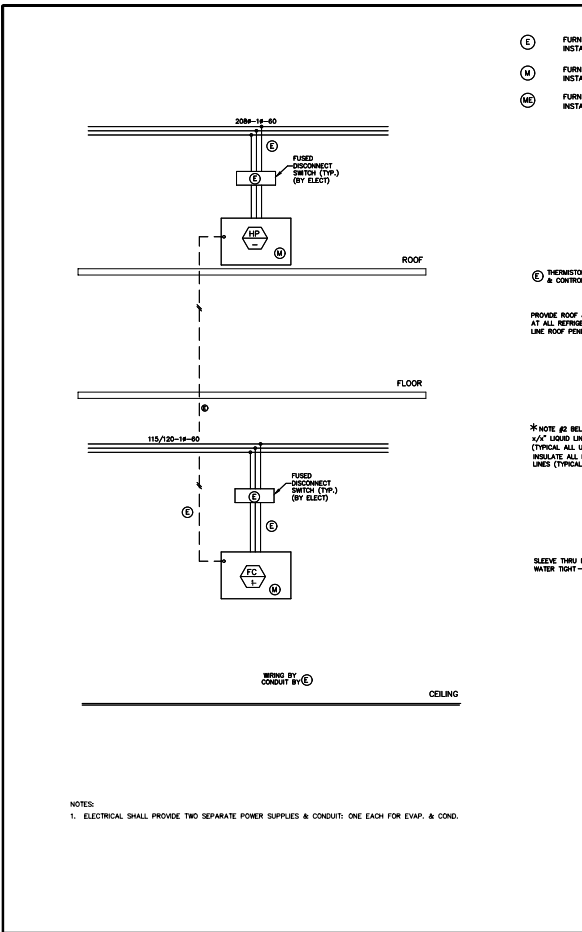
PROJECT: 2016-11-08
DRAWING: M300
AS NOTED



NO.	REVISION/ISSUE	DATE
	REVIEW SET	2016-03-01
	PLAN CHECK SET	2016-03-01
	PLAN CHECK CORRECTIONS	2016-03-10
	PLAN CHECK RESUBMIT	2016-03-20
	PLAN CHECK RESUBMIT	2016-03-20

MECHANICAL DETAILS

PROJECT	DATE	NO.
2016-11-08	2016-11-08	M301
SCALE	AS NOTED	



Project Name: ROSE AND CROWN HOTEL		MCCP-PHF-01-E		Page 1 of 20	
Project Address: 1201 E COLORADO BLVD PASADENA CA 91106		Calculation Date/Time: 08/24, Fri, Jun 26, 2016		Input File Name: RegReport.rpt	
Compliance Scope: New/Complete					
A. PROJECT GENERAL INFORMATION					
1. Project Location (City)	ROSENDENA	2. # of dwelling units	0		
3. CA Zip Code	91106	4. Standard Version	Compliance2015		
5. Climate Zone	9	6. Compliance Software (version)	EnergyPlus 7.0		
7. Total Unconditioned Floor Area	1,487 SF	8A. Building Orientation (deg)	0 (S) 90 deg		
8. Total Unconditioned Floor Area	0 SF	8B. Permitted Scope of Work	New/Complete		
9. # of Stories (Inhabitable Above Grade)	1	10. Building Type(s)	Nonresidential		
B. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS					
§ 140.1 BUILDING COMPLEXES					
3. Energy Component		3. Standard Design (SD)	3. Proposed Design (PD)	4. Compliance Margin (DM)	5. Percent Better than Standard
Space Heating	2.0	4.1	0.0	0.0	-138.5%
Space Cooling	123.9	109.8	14.1	9.9%	
Water Heating	239.7	233.1	6.6	2.8%	
Heat Rejection	-	-	-	-	-
Pumps & Misc.	-	-	-	-	-
Domestic Hot Water	-	-	-	-	-
Indoor Lighting	111.1	111.1	0.0	0.0%	
COMPLIANCE TOTAL	395.3	251.0	144.3	36.5%	
Penalties	65.9	65.9	0.0	0.0%	
Process Log	-	-	-	-	-
TOTAL	461.2	316.9	144.3	31.9%	
CA Building Energy Efficiency Standards: 2013 Nonresidential Compliance Report Version: MCCP-PHF-01-E-11/30/2015-760 Report Generated at: 2016-01-29 08:54:57					

Project Name: ROSE AND CROWN HOTEL		MCCP-PHF-01-E		Page 2 of 20	
Project Address: 1201 E COLORADO BLVD PASADENA CA 91106		Calculation Date/Time: 08/24, Fri, Jun 26, 2016		Input File Name: RegReport.rpt	
Compliance Scope: New/Complete					
F. SUMMARY OF ENERGY WASTAGE ITEMS (in order of highest to lowest TSDV energy savings)					
1st	Indoor Fans: Check envelope and mechanical	Compliance Margin by Energy Component (See Table B column 6)			
2nd	Space Cooling: Check envelope and mechanical	Indoor Fans			
3rd	Heat Rejection: Check envelope and mechanical	Space Cooling			
4th	Pumps & Misc.: Check mechanical	Heat Rejection			
5th	Domestic Hot Water: Check mechanical	Pumps & Misc.			
6th	Indoor Lighting: Check lighting	Domestic Hot Water			
7th	Space Heating: Check envelope and mechanical	Indoor Lighting			
8th		Space Heating			
D. EXCEPTIONAL CONDITIONS					
The building does not include service water heating. Verify that service water heating is not required and is not included in the design.					
E. HERS VERIFICATION					
This Section Does Not Apply					
F. ADDITIONAL REMARKS					
None Provided					
CA Building Energy Efficiency Standards: 2013 Nonresidential Compliance Report Version: MCCP-PHF-01-E-11/30/2015-760 Report Generated at: 2016-01-29 08:54:57					

Project Name: ROSE AND CROWN HOTEL		MCCP-PHF-01-E		Page 3 of 20	
Project Address: 1201 E COLORADO BLVD PASADENA CA 91106		Calculation Date/Time: 08/24, Fri, Jun 26, 2016		Input File Name: RegReport.rpt	
Compliance Scope: New/Complete					
G. COMPLIANCE PATH & CERTIFICITY OF COMPLIANCE SUMMARY					
Identify which building components use the performance or prescriptive path for compliance. "N/A" = 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 Form (Required for submittal)	Location of Mandatory Notes on Plans		
Envelope	02 Performance	MCCP-PHF-ENV-01-01 (Section of the MCCP-PHF-01-E)			
	03 Prescriptive	MCCP-PHF-ENV-02-01 (S) 14 (S) 15 (S) 16			
	04 NA				
Mechanical	02 Performance	MCCP-PHF-MCH-01-01 (Section of the MCCP-PHF-01-E)			
	03 Prescriptive	MCCP-PHF-MCH-02-01 (S) 17 (S) 18 (S) 19			
	04 NA				
Domestic Hot Water	02 Performance	MCCP-PHF-DHW-01-01 (Section of the MCCP-PHF-01-E)			
	03 Prescriptive	MCCP-PHF-DHW-02-01 (S) 20 (S) 21 (S) 22			
	04 NA				
Lighting (Indoor Condition)	02 Performance	MCCP-PHF-LIG-01-01 (Section of the MCCP-PHF-01-E)			
	03 Prescriptive	MCCP-PHF-LIG-02-01 (S) 23 (S) 24 (S) 25			
	04 NA				
General Process	02 Performance	02 Section of the MCCP-PHF-01-E			
Commercial Kitchens	03 Prescriptive	MCCP-PHF-01-01 (S) 26			
	04 NA				
General Process	02 Performance	03 Section of the MCCP-PHF-01-E			
Computer Rooms	03 Prescriptive	MCCP-PHF-01-01 (S) 27			
	04 NA				
General Process	02 Performance	04 Section of the MCCP-PHF-01-E			
Laboratory Exhaust	03 Prescriptive	MCCP-PHF-01-01 (S) 28			
	04 NA				
CA Building Energy Efficiency Standards: 2013 Nonresidential Compliance Report Version: MCCP-PHF-01-E-11/30/2015-760 Report Generated at: 2016-01-29 08:54:57					

Project Name: ROSE AND CROWN HOTEL		MCCP-PHF-01-E		Page 4 of 20	
Project Address: 1201 E COLORADO BLVD PASADENA CA 91106		Calculation Date/Time: 08/24, Fri, Jun 26, 2016		Input File Name: RegReport.rpt	
Compliance Scope: New/Complete					
H. CERTIFICATE OF INSTALLATION, OFF-GRADE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (MCCP/MCA/MCV)					
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, H, and I in MCCP and I1 Details Sections for Acceptance Tests and Forms by equipment.					
Building Component [Compliance Forms (Required for submittal)]					
Envelope	02 MCCP-Env-01-E: For all buildings	03 MCCP-Env-02-E: For all buildings with Mechanical Systems	04 MCCP-Env-03-E: For all buildings with Mechanical Systems	05 MCCP-Env-04-E: For all buildings with Mechanical Systems	06 MCCP-Env-05-E: For all buildings with Mechanical Systems
Mechanical	02 MCCP-Mch-01-E: For all buildings	03 MCCP-Mch-02-E: For all buildings with Mechanical Systems	04 MCCP-Mch-03-E: For all buildings with Mechanical Systems	05 MCCP-Mch-04-E: For all buildings with Mechanical Systems	06 MCCP-Mch-05-E: For all buildings with Mechanical Systems
Domestic Hot Water	02 MCCP-Dhw-01-E: For all buildings	03 MCCP-Dhw-02-E: For all buildings with Mechanical Systems	04 MCCP-Dhw-03-E: For all buildings with Mechanical Systems	05 MCCP-Dhw-04-E: For all buildings with Mechanical Systems	06 MCCP-Dhw-05-E: For all buildings with Mechanical Systems
Lighting (Indoor Condition)	02 MCCP-Lig-01-E: For all buildings	03 MCCP-Lig-02-E: For all buildings with Mechanical Systems	04 MCCP-Lig-03-E: For all buildings with Mechanical Systems	05 MCCP-Lig-04-E: For all buildings with Mechanical Systems	06 MCCP-Lig-05-E: For all buildings with Mechanical Systems
General Process	02 MCCP-Gp-01-E: For all buildings	03 MCCP-Gp-02-E: For all buildings with Mechanical Systems	04 MCCP-Gp-03-E: For all buildings with Mechanical Systems	05 MCCP-Gp-04-E: For all buildings with Mechanical Systems	06 MCCP-Gp-05-E: For all buildings with Mechanical Systems
Commercial Kitchens	02 MCCP-Ck-01-E: For all buildings	03 MCCP-Ck-02-E: For all buildings with Mechanical Systems	04 MCCP-Ck-03-E: For all buildings with Mechanical Systems	05 MCCP-Ck-04-E: For all buildings with Mechanical Systems	06 MCCP-Ck-05-E: For all buildings with Mechanical Systems
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Computer Rooms	02 MCCP-Cr-01-E: For all buildings	03 MCCP-Cr-02-E: For all buildings with Mechanical Systems	04 MCCP-Cr-03-E: For all buildings with Mechanical Systems	05 MCCP-Cr-04-E: For all buildings with Mechanical Systems	06 MCCP-Cr-05-E: For all buildings with Mechanical Systems
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Laboratory Exhaust	02 MCCP-Lab-01-E: For all buildings	03 MCCP-Lab-02-E: For all buildings with Mechanical Systems	04 MCCP-Lab-03-E: For all buildings with Mechanical Systems	05 MCCP-Lab-04-E: For all buildings with Mechanical Systems	06 MCCP-Lab-05-E: For all buildings with Mechanical Systems
CA Building Energy Efficiency Standards: 2013 Nonresidential Compliance Report Version: MCCP-PHF-01-E-11/30/2015-760 Report Generated at: 2016-01-29 08:54:57					

Project Name: ROSE AND CROWN HOTEL		MCCP-PHF-01-E		Page 5 of 20	
Project Address: 1201 E COLORADO BLVD PASADENA CA 91106		Calculation Date/Time: 08/24, Fri, Jun 26, 2016		Input File Name: RegReport.rpt	
Compliance Scope: New/Complete					
I. CERTIFICATE OF INSTALLATION, OFF-GRADE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (MCCP/MCA/MCV)					
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, H, and I in MCCP and I1 Details Sections for Acceptance Tests and Forms by equipment.					
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Mechanical	02 MCCP-Mch-01-E: For all buildings	03 MCCP-Mch-02-E: For all buildings with Mechanical Systems	04 MCCP-Mch-03-E: For all buildings with Mechanical Systems	05 MCCP-Mch-04-E: For all buildings with Mechanical Systems	06 MCCP-Mch-05-E: For all buildings with Mechanical Systems
Domestic Hot Water	02 MCCP-Dhw-01-E: For all buildings	03 MCCP-Dhw-02-E: For all buildings with Mechanical Systems	04 MCCP-Dhw-03-E: For all buildings with Mechanical Systems	05 MCCP-Dhw-04-E: For all buildings with Mechanical Systems	06 MCCP-Dhw-05-E: For all buildings with Mechanical Systems
Lighting (Indoor Condition)	02 MCCP-Lig-01-E: For all buildings	03 MCCP-Lig-02-E: For all buildings with Mechanical Systems	04 MCCP-Lig-03-E: For all buildings with Mechanical Systems	05 MCCP-Lig-04-E: For all buildings with Mechanical Systems	06 MCCP-Lig-05-E: For all buildings with Mechanical Systems
General Process	02 MCCP-Gp-01-E: For all buildings	03 MCCP-Gp-02-E: For all buildings with Mechanical Systems	04 MCCP-Gp-03-E: For all buildings with Mechanical Systems	05 MCCP-Gp-04-E: For all buildings with Mechanical Systems	06 MCCP-Gp-05-E: For all buildings with Mechanical Systems
Commercial Kitchens	02 MCCP-Ck-01-E: For all buildings	03 MCCP-Ck-02-E: For all buildings with Mechanical Systems	04 MCCP-Ck-03-E: For all buildings with Mechanical Systems	05 MCCP-Ck-04-E: For all buildings with Mechanical Systems	06 MCCP-Ck-05-E: For all buildings with Mechanical Systems
General Process	02 MCCP-Gp-01-E: For all buildings	03 MCCP-Gp-02-E: For all buildings with Mechanical Systems	04 MCCP-Gp-03-E: For all buildings with Mechanical Systems	05 MCCP-Gp-04-E: For all buildings with Mechanical Systems	06 MCCP-Gp-05-E: For all buildings with Mechanical Systems
Computer Rooms	02 MCCP-Cr-01-E: For all buildings	03 MCCP-Cr-02-E: For all buildings with Mechanical Systems	04 MCCP-Cr-03-E: For all buildings with Mechanical Systems	05 MCCP-Cr-04-E: For all buildings with Mechanical Systems	06 MCCP-Cr-05-E: For all buildings with Mechanical Systems
General Process	02 MCCP-Gp-01-E: For all buildings	03 MCCP-Gp-02-E: For all buildings with Mechanical Systems	04 MCCP-Gp-03-E: For all buildings with Mechanical Systems	05 MCCP-Gp-04-E: For all buildings with Mechanical Systems	06 MCCP-Gp-05-E: For all buildings with Mechanical Systems
Laboratory Exhaust	02 MCCP-Lab-01-E: For all buildings	03 MCCP-Lab-02-E: For all buildings with Mechanical Systems	04 MCCP-Lab-03-E: For all buildings with Mechanical Systems	05 MCCP-Lab-04-E: For all buildings with Mechanical Systems	06 MCCP-Lab-05-E: For all buildings with Mechanical Systems
CA Building Energy Efficiency Standards: 2013 Nonresidential Compliance Report Version: MCCP-PHF-01-E-11/30/2015-760 Report Generated at: 2016-01-29 08:54:57					

Project Name: ROSE AND CROWN HOTEL		MCCP-PHF-01-E		Page 6 of 20	
Project Address: 1201 E COLORADO BLVD PASADENA CA 91106		Calculation Date/Time: 08/24, Fri, Jun 26, 2016		Input File Name: RegReport.rpt	
Compliance Scope: New/Complete					
J. MECHANICAL SYSTEMS SUMMARY (see I1 Details Sections for Acceptance Tests and Forms by equipment)					
§ 130.7 & § 140.3 Confirmed					
Equipment	1. System Type	2. Capacity	3. Efficiency	4. Control	5. Notes
1. Air Handling Unit (AHU)	1.1 System Type: VAV	1.2 Capacity: 1000 CFM	1.3 Efficiency: 85%	1.4 Control: VAV	1.5 Notes: VAV
2. Fan Coil Unit (FCU)	2.1 System Type: FCU	2.2 Capacity: 500 CFM	2.3 Efficiency: 80%	2.4 Control: FCU	2.5 Notes: FCU
3. Chilled Water Loop	3.1 System Type: Chilled Water	3.2 Capacity: 1000 GPM	3.3 Efficiency: 85%	3.4 Control: Chilled Water	3.5 Notes: Chilled Water
4. Hot Water Loop	4.1 System Type: Hot Water	4.2 Capacity: 1000 GPM	4.3 Efficiency: 80%	4.4 Control: Hot Water	4.5 Notes: Hot Water
5. Domestic Water Heating	5.1 System Type: Domestic Water Heating	5.2 Capacity: 100 GPM	5.3 Efficiency: 80%	5.4 Control: Domestic Water Heating	5.5 Notes: Domestic Water Heating
6. Pumps	6.1 System Type: Pumps	6.2 Capacity: 100 GPM	6.3 Efficiency: 80%	6.4 Control: Pumps	6.5 Notes: Pumps
7. Air Conditioning	7.1 System Type: Air Conditioning	7.2 Capacity: 1000 CFM	7.3 Efficiency: 85%	7.4 Control: Air Conditioning	7.5 Notes: Air Conditioning
8. Heating	8.1 System Type: Heating	8.2 Capacity: 1000 CFM	8.3 Efficiency: 80%	8.4 Control: Heating	8.5 Notes: Heating
9. Ventilation	9.1 System Type: Ventilation	9.2 Capacity: 1000 CFM	9.3 Efficiency: 80%	9.4 Control: Ventilation	9.5 Notes: Ventilation
CA Building Energy Efficiency Standards: 2013 Nonresidential Compliance Report Version: MCCP-PHF-01-E-11/30/2015-760 Report Generated at: 2016-01-29 08:54:57					

Project Name: ROSE AND CROWN HOTEL		MCCP-PHF-01-E		Page 7 of 20	
Project Address: 1201 E COLORADO BLVD PASADENA CA 91106		Calculation Date/Time: 08/24, Fri, Jun 26, 2016		Input File Name: RegReport.rpt	
Compliance Scope: New/Complete					
K. CERTIFICATE OF INSTALLATION, OFF-GRADE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (MCCP/MCA/MCV)					
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, H, and I in MCCP and I1 Details Sections for Acceptance Tests and Forms by equipment.					
Building Component [Compliance Forms (Required for submittal)]					
Envelope	02 MCCP-Env-01-E: For all buildings	03 MCCP-Env-02-E: For all buildings with Mechanical Systems	04 MCCP-Env-03-E: For all buildings with Mechanical Systems	05 MCCP-Env-04-E: For all buildings with Mechanical Systems	06 MCCP-Env-05-E: For all buildings with Mechanical Systems
Mechanical	02 MCCP-Mch-01-E: For all buildings	03 MCCP-Mch-02-E: For all buildings with Mechanical Systems	04 MCCP-Mch-03-E: For all buildings with Mechanical Systems	05 MCCP-Mch-04-E: For all buildings with Mechanical Systems	06 MCCP-Mch-05-E: For all buildings with Mechanical Systems
Domestic Hot Water	02 MCCP-Dhw-01-E: For all buildings	03 MCCP-Dhw-02-E: For all buildings with Mechanical Systems	04 MCCP-Dhw-03-E: For all buildings with Mechanical Systems	05 MCCP-Dhw-04-E: For all buildings with Mechanical Systems	06 MCCP-Dhw-05-E: For all buildings with Mechanical Systems
Lighting (Indoor Condition)	02 MCCP-Lig-01-E: For all buildings	03 MCCP-Lig-02-E: For all buildings with Mechanical Systems	04 MCCP-Lig-03-E: For all buildings with Mechanical Systems	05 MCCP-Lig-04-E: For all buildings with Mechanical Systems	06 MCCP-Lig-05-E: For all buildings with Mechanical Systems
General Process	02 MCCP-Gp-01-E: For all buildings	03 MCCP-Gp-02-E: For all buildings with Mechanical Systems	04 MCCP-Gp-03-E: For all buildings with Mechanical Systems	05 MCCP-Gp-04-E: For all buildings with Mechanical Systems	06 MCCP-Gp-05-E: For all buildings with Mechanical Systems
Commercial Kitchens	02 MCCP-Ck-01-E: For all buildings	03 MCCP-Ck-02-E: For all buildings with Mechanical Systems	04 MCCP-Ck-03-E: For all buildings with Mechanical Systems	05 MCCP-Ck-04-E: For all buildings with Mechanical Systems	06 MCCP-Ck-05-E: For all buildings with Mechanical Systems
General Process	02 MCCP-Gp-01-E: For all buildings	03 MCCP-Gp-02-E: For all buildings with Mechanical Systems	04 MCCP-Gp-03-E: For all buildings with Mechanical Systems	05 MCCP-Gp-04-E: For all buildings with Mechanical Systems	06 MCCP-Gp-05-E: For all buildings with Mechanical Systems
Computer Rooms	02 MCCP-Cr-01-E: For all buildings	03 MCCP-Cr-02-E: For all buildings with Mechanical Systems	04 MCCP-Cr-03-E: For all buildings with Mechanical Systems	05 MCCP-Cr-04-E: For all buildings with Mechanical Systems	06 MCCP-Cr-05-E: For all buildings with Mechanical Systems
General Process	02 MCCP-Gp-01-E: For all buildings	03 MCCP-Gp-02-E: For all buildings with Mechanical Systems	04 MCCP-Gp-03-E: For all buildings with Mechanical Systems	05 MCCP-Gp-04-E: For all buildings with Mechanical Systems	06 MCCP-Gp-05-E: For all buildings with Mechanical Systems
Laboratory Exhaust	02 MCCP-Lab-01-E: For all buildings	03 MCCP-Lab-02-E: For all buildings with Mechanical Systems	04 MCCP-Lab-03-E: For all buildings with Mechanical Systems	05 MCCP-Lab-04-E: For all buildings with Mechanical Systems	06 MCCP-Lab-05-E: For all buildings with Mechanical Systems
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Compliance Scope: New/Complete					
L. ROOFING PRODUCT SUMMARY					
§ 140.3 Confirmed					
Product Type	1. Product Name	2. R-Value	3. U-Factor	4. Notes	5. Comments
1. Roof Membrane	1.1 Product Name: EPDM	1.2 R-Value: 0.06	1.3 U-Factor: 15.83	1.4 Notes: EPDM	1.5 Comments: EPDM
2. Insulation	2.1 Product Name: Polyisocyanurate	2.2 R-Value: 5.0	2.3 U-Factor: 0.20	2.4 Notes: Polyisocyanurate	2.5 Comments: Polyisocyanurate
3. Vapor Barrier	3.1 Product Name: Vapor Barrier	3.2 R-Value: 0.05	3.3 U-Factor: 20.00	3.4 Notes: Vapor Barrier	3.5 Comments: Vapor Barrier
4. Roof Deck	4.1 Product Name: Concrete	4.2 R-Value: 0.08	4.3 U-Factor: 12.50	4.4 Notes: Concrete	4.5 Comments: Concrete
CA Building Energy Efficiency Standards: 2013 Nonresidential Compliance Report Version: MCCP-PHF-01-E-11/30/2015-760 Report Generated at: 2016-01-29 08:54:57					

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Compliance Scope: New/Complete					
M. MECHANICAL SYSTEMS SUMMARY (see I1 Details Sections for Acceptance Tests and Forms by equipment)					
§ 130.7 & § 140.3 Confirmed					
Equipment	1. System Type	2. Capacity	3. Efficiency	4. Control	5. Notes
1. Air Handling Unit (AHU)	1.1 System Type: VAV	1.2 Capacity: 1000 CFM	1.3 Efficiency: 85%	1.4 Control: VAV	1.5 Notes: VAV
2. Fan Coil Unit (FCU)	2.1 System Type: FCU	2.2 Capacity: 500 CFM	2.3 Efficiency: 80%	2.4 Control: FCU	2.5 Notes: FCU
3. Chilled Water Loop	3.1 System Type: Chilled Water	3.2 Capacity: 1000 GPM	3.3 Efficiency: 85%	3.4 Control: Chilled Water	3.5 Notes: Chilled Water
4. Hot Water Loop	4.1 System Type: Hot Water	4.2 Capacity: 1000 GPM	4.3 Efficiency: 80%	4.4 Control: Hot Water	4.5 Notes: Hot Water
5. Domestic Water Heating	5.1 System Type: Domestic Water Heating	5.2 Capacity: 100 GPM	5.3 Efficiency: 80%	5.4 Control: Domestic Water Heating	5.5 Notes: Domestic Water Heating
6. Pumps	6.1 System Type: Pumps	6.2 Capacity: 100 GPM	6.3 Efficiency: 80%	6.4 Control: Pumps	6.5 Notes: Pumps
7. Air Conditioning	7.1 System Type: Air Conditioning	7.2 Capacity: 1000 CFM	7.3 Efficiency: 85%	7.4 Control: Air Conditioning	7.5 Notes: Air Conditioning
8. Heating	8.1 System Type: Heating	8.2 Capacity: 1000 CFM	8.3 Efficiency: 80%	8.4 Control: Heating	8.5 Notes: Heating
9. Ventilation	9.1 System Type: Ventilation	9.2 Capacity: 1000 CFM	9.3 Efficiency: 80%	9.4 Control: Ventilation	

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Compliance Scope: New/Complete		Input File Name: InputFile.nccp		Input File Name: InputFile.nccp								
II. ECONOMIZER & FAN SYSTEMS SUMMARY § 140.4 Confirmed												
Equip Name	Outdoor Air			Supply Fan			Return Fan			Estimation Type (if present)	Pass	Fail
	CM	CH	HP	CFM	HP	CFM	CFM	HP	CFM			
1st UNIT 11	100	1300	0.70	0.68	0.82	Conservative	NA	NA	NA	Not/Noncompliant	<input type="checkbox"/>	<input type="checkbox"/>
2nd UNIT 221	100	1300	0.70	0.82	0.82	Conservative	NA	NA	NA	Not/Noncompliant	<input type="checkbox"/>	<input type="checkbox"/>
2nd Floor Room 148	0	600	0.02	0.02	0.33	Conservative	NA	NA	NA	NA	<input type="checkbox"/>	<input type="checkbox"/>
2nd Floor Room 200	0	600	0.02	0.02	0.33	Conservative	NA	NA	NA	NA	<input type="checkbox"/>	<input type="checkbox"/>

III. EQUIPMENT CONTROLS § 130.2 Confirmed				
Equip Name	Equip Type	Control	Pass	Fail
1st UNIT 11	UNF	NA: OCV Controls No Economizer No Supply Air Temp. Control	<input type="checkbox"/>	<input type="checkbox"/>
2nd UNIT 221	UNF	NA: OCV Controls No Economizer No Supply Air Temp. Control	<input type="checkbox"/>	<input type="checkbox"/>

IV. SYSTEM DISTRIBUTION SUMMARY § 140.2/A § 140.4/0 Confirmed	
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Does the Project include Demand Systems (if "No", see NCCP PRF MCH DETAILS for system information)?		Yes
Does the Project include a Solar Hot Water System (if "No", see NCCP PRF MCH DETAILS for system information)?		No
Mechanically or Electrically Heated Domestic Water (if "No", see NCCP PRF MCH DETAILS for system information)?		Yes

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Compliance Scope: New/Complete		Input File Name: InputFile.nccp		Input File Name: InputFile.nccp		
V. INDOOR ENVIRONMENTAL QUALITY - GENERAL INFO (see NCCP PRF 03-E DETAILS for more info) § 140.6 Confirmed						
Occupancy Type	Conditioned Floor Area (SF)	Installed Lighting Power (Watts)	Lighting Control Credits (Credits)	Additional (Excess) Allowance	Pass	Fail
2nd Floor Room 148	1,211	1,487	0	0	<input type="checkbox"/>	<input type="checkbox"/>
2nd Floor Room 200	1,211	1,487	0	0	<input type="checkbox"/>	<input type="checkbox"/>
Building Total	2,422	2,974	0	0	<input type="checkbox"/>	<input type="checkbox"/>

VI. INDOOR ENVIRONMENTAL QUALITY - SCHEDULE (Adapted from NCCP 03-E-07) § 130.0 Confirmed								
Name or Room Tag	Control Type/Description (e.g., "Time Proportional Control, PIR, and dimmable electronic ballast")	Watts per Luminaire	CCC Default from NAB	CCC Achieved from NAB	Total Number Luminaires	Installed Watts	Pass	Fail

VII. COVERED PROCESS SUMMARY - EMPLOYED PARKING GARAGES § 140.9 Confirmed	
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VIII. COVERED PROCESS SUMMARY - COMMERCIAL KITCHENS § 140.9 Confirmed	
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IX. COVERED PROCESS SUMMARY - COMPUTER ROOMS § 140.9 Confirmed	
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X. COVERED PROCESS SUMMARY - LABORATORY EXHAUSTS § 140.9 Confirmed					

XI. UNMET LOAD HOURS					
Thermal Zone Name	Config Unmet Load Hour Limit for Thermal Zone	Proposed Config Unmet Load Hours	Unmet Unmet Load Hour Limit for Thermal Zone	Proposed Unmet Load Hour Limit	
2nd Floor Room 148	120	120	0	120	
2nd Floor Room 200	120	120	0	120	
2nd Floor Room 148	120	120	0	120	
2nd Floor Room 200	120	120	0	120	

XII. ENERGY USE SUMMARY					
Year	Total Annual Gasoline	Total Annual Electricity	Total Annual Natural Gas (therms)		
2015	0	4100.0	0		
2016	0	2099.8	0		

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DOCUMENTATION OF THE DECLARATION STATEMENT § 130.103 Confirmed					
Declaration Statement	Signature				
Responsible Mechanical Designer Name: LANE GRANICA	[Signature]				
Responsible Electrical Designer Name: LANE GRANICA	[Signature]				

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Compliance Scope: New/Complete		Input File Name: InputFile.nccp		Input File Name: InputFile.nccp		
NCCP PRF 03-E DETAILS - SECTION START:						
Finish/Trade Tag/ID	Finish/Trade Orientation	Overhang Dimensions		Sub for	Pass	Fail
		Horizontal Projection	Distance Above Window			
1st Floor Prep	South	2.0'	0.5'	Left: 0', Right: 0'	<input type="checkbox"/>	<input type="checkbox"/>
2nd Floor Room 148	South	2.0'	0.5'	Left: 0', Right: 0'	<input type="checkbox"/>	<input type="checkbox"/>
2nd Floor Room 200	South	2.0'	0.5'	Left: 0', Right: 0'	<input type="checkbox"/>	<input type="checkbox"/>

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Compliance Scope: New/Complete		Input File Name: InputFile.nccp		Input File Name: InputFile.nccp					
NCCP PRF 03-E DETAILS - SECTION START:									
Mechanical Zone Name	System Type	Qty	Rated Capacity (kBtu/h)	Economizer	Zone Name	Addition (kBtu/h)		Pass	Fail
						Design	Min. Ratio		
2nd Floor Room 148	Uncontrolled	1	NA	NA	2nd Floor Room 148	224	NA	<input type="checkbox"/>	<input type="checkbox"/>
2nd Floor Room 200	Uncontrolled	1	NA	NA	2nd Floor Room 200	224	NA	<input type="checkbox"/>	<input type="checkbox"/>

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Compliance Scope: New/Complete		Input File Name: InputFile.nccp		Input File Name: InputFile.nccp					
A. MECHANICAL VENTILATION AND FRESH AIR (Adapted from 90.1-2013 ASHRAE 90.1-2013) § 140.10 Confirmed									
Mechanical Zone Name	System Type	Qty	Rated Capacity (kBtu/h)	Economizer	Zone Name	Addition (kBtu/h)		Pass	Fail
						Design	Min. Ratio		
2nd Floor Room 148	Uncontrolled	1	NA	NA	2nd Floor Room 148	224	NA	<input type="checkbox"/>	<input type="checkbox"/>
2nd Floor Room 200	Uncontrolled	1	NA	NA	2nd Floor Room 200	224	NA	<input type="checkbox"/>	<input type="checkbox"/>

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance Report Version: NCCP PRF 03-E 11/30/2015-760 Report Generated at: 2016-01-29 08:54:37

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Compliance Scope: New/Complete		Input File Name: InputFile.nccp		Input File Name: InputFile.nccp					
B. WINDOW SYSTEM AND TERMINAL UNIT SUMMARY									
System ID	System Type	Qty	Rated Capacity (kBtu/h)	Economizer	Zone Name	Addition (kBtu/h)		Pass	Fail
						Design	Min. Ratio		
2nd Floor Room 148	Uncontrolled	1	NA	NA	2nd Floor Room 148	224	NA	<input type="checkbox"/>	<input type="checkbox"/>
2nd Floor Room 200	Uncontrolled	1	NA	NA	2nd Floor Room 200	224	NA	<input type="checkbox"/>	<input type="checkbox"/>

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Compliance Scope: New/Complete		Input File Name: InputFile.nccp		Input File Name: InputFile.nccp	
C. EXHAUST FAN SUMMARY					

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Compliance Scope: New/Complete		Input File Name: InputFile.nccp		Input File Name: InputFile.nccp	
D. UNFAN EQUIPMENT SUMMARY (Adapted from NCCP PRF 03-E)					

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E. MULTI-FAMILY CENTRAL CHW SYSTEM DETAILS					

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Compliance Scope: New/Complete		Input File Name: InputFile.nccp		Input File Name: InputFile.nccp	
NCCP PRF 03-E DETAILS - SECTION START:					
A. INDOOR ENVIRONMENTAL QUALITY - SCHEDULE (Adapted from NCCP 03-E-07) § 140.0 Confirmed					
Luminaires Schedule (includes all perimeter installed lighting in conditioned spaces, and portable lighting units) § 140.1.1					

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INNOVATIVE ENGINEERING GROUP, INC.
1201 E COLORADO BLVD
PASADENA, CA 91106

PROJECT: ROSE AND CROWN HOTEL

NO.	REVISION/ISSUE	DATE
1	REVIEW SET	2016-03-01
2	PLAN CHECK SET	2016-03-01
3	PLAN CHECK CORRECTIONS	2016-03-01
4	PLAN CHECK RESUBMIT	2016-03-01
5	PLAN CHECK RESUBMIT	2016-03-01

PROJECT: MECHANICAL TITLE 24

PROJECT: 2016-11-08	ISSUE NO.: M4.01
DATE: AS NOTED	REVISION: AS NOTED

Project Name: ROSE AND CROWN HOTEL
 Project Address: 1200 E COLORADO BLVD PASADENA 91106
 Compliance System: International

C. TAILORED METHOD LIGHTING POWER ALLOWANCE SUMMARY AND CHECKLIST (Adapted from NRC-17-04-E) § 140.6

Additional "use it or lose it" (See Table G)
 Total watts: 0

D. GENERAL LIGHTING POWER (Adapted from NRC-17-04-E) § 140.6-D
 This Section Does Not Apply

E. GENERAL LIGHTING FROM SPECIAL FUNCTION AREAS (Adapted from NRC-17-04-E) § 140.6(G) 3H

Room Number	Primary Function Area	Room Length (ft)	Room Width (ft)	Room Ceiling Height (ft)	Allowed LPD	Floor Area (ft ²)	Allowed Watts	Compliant
NA	NA	NA	NA	NA	NA	NA	NA	<input type="checkbox"/>

F. ROOM CAVITY RATIO (Adapted from NRC-17-04-E)

Room Number	Task/Activity Description	Room Length (ft)	Room Width (ft)	Room Ceiling Height (ft)	RCR	Compliant
NA	NA	NA	NA	NA	NA	<input type="checkbox"/>

G. ADDITIONAL "USE IT OR LOSE IT" (Adapted from NRC-17-04-E)

1. Wall Display	2. Combined Floor Display and Task Lighting	3. Combined Ornamental and Special Effects Lighting	4. Very Valuable Merchandise	Allowed Watts	Compliant
0	0	0	0	0	<input type="checkbox"/>

H. Wall Display
 This Section Does Not Apply

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Project Name: ROSE AND CROWN HOTEL
 Project Address: 1200 E COLORADO BLVD PASADENA 91106
 Compliance System: International

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

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

G. Very Valuable Merchandise
 This Section Does Not Apply

H. INDOOR & OUTDOOR LIGHTING ACCEPTANCE TESTS & FORMS (Adapted from NRC-17-01-E and NRC-17-03-E) § 140.4
 Declaration of Required Acceptance Criteria: Acceptance Criteria have been verified as met. (Include negative and verify items are completed and signed in pencil to "Not for Field Inspection")

Test Description	Indoor				Outdoor	Compliant
	NRC-17-01-A	NRC-17-03-A	NRC-17-03-A	NRC-17-03-A		
Equipment Requiring Testing or Certification	# of units	On/Off Switch	Auto Dimming	Demand Response	Outdoor Controls	<input type="checkbox"/>
Occupant Sensors	0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Automatic Time Switch	0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Automatic Daylighting	0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Demand Response	0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Outdoor Controls	0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>


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ROSE AND CROWN HOTEL

1200 E COLORADO BLVD
PASADENA, CA 91106

PROJECT NAME

TITLE



NO.	REVISION/ISSUE	DATE
	REVIEW SET	2016-03-01
	PLAN CHECK SET	2016-03-01
	PLAN CHECK CORRECTIONS	2016-03-15
	PLAN CHECK RESUBMIT	2016-03-20
	PLAN CHECK RESUBMIT	2016-03-20

MECHANICAL
TITLE 24

PROJECT: ROSE AND CROWN HOTEL
 DATE: 2016-11-08
 SCALE: AS NOTED
 SHEET: M4.01

GENERAL NOTES

- A. ALL MATERIALS AND WORKSMAN SHALL CONFORM TO THE CALIFORNIA CODE OF REGULATIONS, CALIFORNIA ELECTRICAL CODE 2013 EDITION AND ALL APPLICABLE LOCAL CODES AND REGULATIONS.
- B. DRAWINGS ARE SUPPLEMENTARY AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INSTALLED. FOLLOW ALL DRAWINGS, INCLUDING ALL NOTES AND CHECK DRAWINGS OF OTHER TRADES RELATING TO WORK TO VERIFY SPACES IN WHICH WORK WILL BE INSTALLED, INCLUDING MINIMUM AND MAXIMUM CODE REQUIRED WORKING CLEARANCES AT ALL TIMES.
- C. DURING BID, THE CONTRACTOR MUST FURNISH THE COMPLETE SET OF DRAWINGS AND CONTRACT DOCUMENTS FOR ALL TRADES. COORDINATE AND VERIFY DIMENSIONS SPACES, CONDITIONS, AND REQUIREMENTS WITH THE PROJECT OWNER AND THE ULTIMATE USERS AND OCCUPANTS WITH FINISHED PROJECT SHALL MEET TO THESE REQUIREMENTS.
- D. THE CONTRACTOR IS ADVISED AND REMONDED THAT THEIR BEST EFFORTS AND THAT OF THE CONTRACTOR'S ORGANIZATION AND PERSONNEL ARE TO BE PROVIDED AS PART OF THE CONTRACT. THE CONTRACTOR SHALL PROVIDE THE PROJECT OWNER AND THE ULTIMATE USERS AND OCCUPANTS WITH FINISHED PROJECT SHALL MEET TO THESE REQUIREMENTS.
- E. CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL ELECTRICAL, MECHANICAL, PLUMBING AND ALL OTHER EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS PRIOR TO ANY WORK.
- F. DEDICATED ELECTRICAL SPACE NEC 110.26(F): THE SPACE EQUAL TO THE WIDTH AND DEPTH OF THE EQUIPMENT AND EXTENDING FROM THE FLOOR TO A HEIGHT (6 FT) ABOVE THE EQUIPMENT OR TO THE STRUCTURAL CEILING, WHICHEVER IS LOWER, SHALL BE DESIGNATED TO THE ELECTRICAL INSTALLATION. NO PIPING, DUCTS, LEAD PROTECTION APPARATUS, OR OTHER EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION SHALL BE LOCATED IN THIS ZONE.
- G. SEE MECHANICAL AND PLUMBING DRAWINGS AND SPECIFICATION FOR ADDITIONAL CONNECTION REQUIREMENTS TO CONTROL PANELS AND TRANSFORMERS, 120V FOR CONTROL SYSTEMS, SWITCHES, THE CLOCK, VALVES, STAIRS, RELAYS, DUST SMOKE DETECTOR LOCATION, VAV BOSES, SMOKE FIRE DAMPERS, AND ETC. CONTRACTOR SHALL VERIFY FINAL CONTROL WIRING REQUIREMENTS WITH DIVISION 25 & 23 PRIOR TO ANY WORK AND PROVIDE ALL NECESSARY WIRING, DUCTS AND CONNECTIONS AS REQUIRED.
- H. CONTRACTOR SHALL EXTEND WIRING FROM ALL JUNCTION BOXES, SWITCHES, ETC. AND MAKE FINAL CONNECTIONS AS REQUIRED TO ALL OTHER EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS PRIOR TO ANY WORK.
- I. THE CONTRACTOR SHALL VERIFY THE ACTUAL MOTOR AND AMPERAGE RATING AND LOADS IN ORDER TO PROVIDE CORRECT SIZED MOTOR RELATED TO THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY THE MOTOR SUBJECT WITH REVISED DATA BEFORE INSTALLATION. ALL CHANGES SHALL BE SHOWN ON RECORD DRAWINGS. 1/4" CONDUIT MIN. (U.O.A.) #2 AND CONDUCTOR MIN. (U.O.A.)
- J. ALL PANELS, SWITCHES, ETC. SHALL HAVE SUFFICIENT OUTER SPACE AND LEGS IN COMPLIANCE WITH ALL REQUIREMENTS TO ACCOMMODATE CONDUITS AND WIRES.
- K. WHERE WIRE SIZES ARE INDICATED ON PLANS, FOR INDIVIDUAL CIRCUITS, THE WIRE SIZE INDICATED SHALL APPLY TO THE COMPLETE CIRCUIT, UNLESS OTHERWISE NOTED.
- L. LOCATION OF LOCAL WALL SWITCHES ARE SUBJECT TO MODIFICATIONS, AT OR NEAR DOORS, INSTALL SWITCHES ON SIDE OPPOSITE TO DOOR HINGES. VERIFY FINAL WIRING LOCATION FROM FIELD PRIOR TO ANY WORK.
- M. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL WALL OUTLET BOXES FOR SWITCHES, STROBES/SIGNALS, STROBES, FIRE ALARM FULL STATIONS, RECEPTACLES, ETC. WITH ALL A/C, HEAVY, CABLES, FURNITURE, EQUIPMENT ETC. TO AVOID CONFLICT.
- N. WHERE ELECTRIC MOTORS OR EQUIPMENT ARE INSTALLED IN HANG CEILING, PROVIDE DISCONNECT SWITCH IN HANG CEILING WITHIN REACH FROM ACCESS POINT.
- O. PROVIDE APPROVED EXPANSION FITTINGS WHERE RACEWAY CROSSES BUILDING EXPANSION JOINTS.
- P. PROVIDE PULL WIRE IN EACH RACEWAY RUN OVER 10 FEET IN LENGTH, IN WHICH PERMANENT WIRING IS NOT INSTALLED.
- Q. NOT MORE THAN THREE LIGHTING OR CONDUIT OUTLET CIRCUITS ARE PERMITTED IN ONE CONDUIT, UNLESS OTHERWISE INDICATED PROVIDE SEPARATE CONDUIT FOR EACH HOME RUN INDICATED IN THE DRAWING.
- R. ALL EXTERIOR ELECTRICAL DEVICES AND EQUIPMENT EXPOSED TO OUTSIDE ENVIRONMENT SHALL BE WEATHERPROOF TYPE, NEMA 3R.
- S. LIGHTING, POWER, TELEPHONE AND COMMUNICATIONS OUTLETS SHALL NOT BE PLACED BACK TO BACK. OUTLETS SHALL BE HORIZONTALLY SEPARATED MIN. OF 24" FOR RATED WALL AND MIN. OF 18" FOR NON-RATED WALL.
- T. PROVIDE PULL BOXES WHEREVER NECESSARY TO FACILITATE PULLING OF CONDUITS. COORDINATE LOCATIONS OF BOXES WITH OTHER TRADES TO AVOID CONFLICT. PULL BOXES SHALL BE ACCESSIBLE. THE SIZE OF PULLBOX SHALL COMPLY WITH ALL CODE REQUIREMENTS.
- U. OUTLET BOXES FOR FIXTURES RECESSED IN HANG CEILING SHALL BE ACCESSIBLE THROUGH OPENING OPERATED BY REMOVAL OF FIXTURES.
- V. WHERE MORE THAN ONE LIGHT SWITCH OCCURS AT SAME LOCATION, SWITCHES SHALL BE MOUNTED IN A WALLING GANG BOX UNDER A SINGLE COVER PLATE. PLATES WITH MORE THAN (2) LIGHT SWITCHES SHALL BE LABELLED TO INDICATE THE LIGHT FIXTURES CONTROLLED. SWITCHES CONTROLLING LIGHTS ON EMERGENCY CIRCUIT SHALL BE IN A SEPARATE BOX UNDER THE SAME COVER PLATE AS THE OTHER SWITCHES.
- W. PROVIDE GREEN GROUNDING CONDUCTOR IN EACH RACEWAY INCLUDING CONDUITS, FIBER STRIPS, ETC. SIZE OF GROUNDING CONDUCTOR SHALL BE IN ACCORDANCE WITH CALIFORNIA ELECTRICAL CODE ARTICLE 250.122.
- X. PROVIDE #10 CONDUCTORS FOR ALL 20 AMP CIRCUITS LONGER THAN 100' AND #8 CONDUCTORS FOR CIRCUITS LONGER THAN 225'. CONTRACTOR SHALL ADVISE THE SIZE OF CONDUITS ACCORDINGLY.
- Y. FEEDER LENGTH SHOWN ON DRAWINGS ARE FOR VOLTAGE DROP CALCULATION AND NOT TO BE USED FOR COST ESTIMATING.
- Z. WHERE CONDITIONS ARE SHOWN AS EXISTING, THEY ARE BASED ON THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE DRAWINGS/DOCUMENTS. NO WARRANTY IS IMPLIED AS TO THE ACCURACY. CONTRACTOR IS TO FIELD VERIFY ALL CONDITIONS. SHOULD FIELD CONDITIONS DIFFER FROM THOSE SHOWN, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BID. THE ENGINEER WILL THEN PROVIDE ADDITIONAL INFORMATION NEEDED TO ACCOMPLISH THE DESIRED RESULT.
- AA. CONTRACTOR SHALL PERMANENTLY LABEL CIRCUIT AND PANEL NAME ON ALL OUTLETS.
- AB. PULLS SHALL BE PROVIDED WITH RECEPTION TYPE FUSE HOLDERS.
- AC. CONTRACTOR SHALL LABEL ALL SWITCHED RECEPTACLES PER TITLE 24 REQUIREMENTS, FOR EACH FULL SWITCHED RECEPTACLE PROVIDE TWO LABELS, ONE ON EACH CORNER TOP LEFT AND BOTTOM RIGHT. FOR EACH HALF SWITCHED RECEPTACLE PROVIDE ONE LABEL ON TOP RIGHT CORNER REFER TO LIGHTING CONTROL DIAGRAMS FOR HOUSE REPRESENTATION.
- AD. ALL ELECTRICAL EQUIPMENT SHALL BE LISTED BY UL OR CITY OF PASADENA APPROVED THIRD PARTY TESTING FACILITY.

ELECTRICAL LEGEND

GENERAL	RECEPTACLES (+18" AFF. U.O.A.)	SINGLE LINE DIAGRAM	ABBREVIATIONS CONTINUED
<p> JUNCTION BOX CEILING MOUNTED JUNCTION BOX WALL MOUNTED +18" AFF. U.O.A. JUNCTION BOX FLUSH IN FLOOR ENCLOSED CIRCUIT BREAKER MOTION DETECTOR RELAY RECEPTACLE CONTROL RELAY ROOM CONTROLLER EMERGENCY RELAY TIME CLOCK FLUSH BUTTON DOOR CONTACT CONTACT SWITCH/STOP SWITCH MOTOR DISCONNECT SWITCH FUSED DISCONNECT SWITCH FIRE ALARM CONTROL PANEL FIRE ALARM ANNUNCIATOR FIRE ALARM POWER SUPPLY FIRE ALARM TERMINAL CABINET MANUAL FIRE ALARM PULL STATION FIRE ALARM HORN FIRE ALARM HORN AND STROBE FIRE ALARM STROBE BELL DOOR HOLDER LIGHT SWITCH TAMPER SWITCH HEAT DETECTOR SMOKE DETECTOR SMOKE/CARBON DETECTOR SELF-CONTAINED 120 VOLT SMOKE DETECTOR SMOKE FIRE CAMPER CONTROL MODULE MONITOR MODULE POST INDICATOR VALVE BEAM DETECTOR TRANSMITTER BEAM DETECTOR RECEIVER </p>	<p> SINGLE RECEPTACLE HALF-SWITCHED DUPLEX RECEPTACLE GROUNDED DUPLEX RECEPTACLE DOUBLE DUPLEX RECEPTACLE SPECIAL PURPOSE OUTLET (TYPE AS NOTED) FLOOR MOUNTED DUPLEX RECEPTACLE FLOOR MOUNTED DOUBLE DUPLEX RECEPTACLE MULTI-OUTLET ASSEMBLY POWER COMMUNICATIONS POLE WITH BARRIER FLOOR MOUNTED COMBINATION RECEPTACLE & TLU/DATA </p> <p> NOTE: ALL RECEPTACLES SHALL BE 20AMP, 120V, U.O.A. </p>	<p> SINGLE LINE DIAGRAM BREAKER WITH DRAWOUT FEATURE CONTACT (NORMALLY OPEN) CONTACT (NORMALLY CLOSED) OPERATING COIL FUSE SWITCH TRANSFORMER CURRENT TRANSFORMER POWER UTILITY METER POWER NON UTILITY SUB METER GENERATOR GROUND GROUND FAULT SENSOR NEUTRAL BUS GROUND BUS AUTOMATIC TRANSFER SWITCH FEEDER TAG </p>	<p> H.C. NORMALLY CLOSED N.O. NORMALLY OPEN N.F. NON-UTILITY N.E.C. NATIONAL ELECTRICAL CODE N.E.L. NATIONAL ELECTRICAL LEADERSHIP N.T.S. NOT TO SCALE N.L. NIGHT LIGHT N.C. NOT IN CONTACT O.C. OVERLOAD ELEMENT O.L. OVERLOAD P.B. PULL BOX P.F. POWER FACTOR P.H.L. PHASE P.N.E. PANEL TRANSFORMER P.V.C. POLYVINYL CHLORIDE P.W. NOT TO BE RELOCATED P.W. NOT IN SQUARE S.H.T. SHEET S.M. SMOKE METAL RACEWAY S.P. SINGLE POLE S.P.E.C. SPECIFICATIONS S.T. SINGLE THROW S.T.B. SWITCHBOARD T.C. TIME CLOCK T.E. TELEPHONE T.E.M.P. TELECOMMUNICATIONS INDUSTRY ASSOCIATION T.H. THERMISTOR T.T. TELEPHONE TERMINAL BOARD T.T.C. TELEPHONE TERMINAL CABINET T.Y.P. TYPICAL U.G. UNDERGROUND U.N.I.T. UNIT HEATER U.N.L.E.S. UNLESS NOTED OTHERWISE U.N.T.E.R. UNINTERRUPTED POWER SUPPLY V. VOLTS V.A. VOLT AMP(S) V.R.P. REACTIVE VOLT AMPERES V.P. VAPOR PROOF W. WITH W.P. WATER W.P. WEATHERPROOF T.W.R. TRANSFORMER X.P. EXPLOSION PROOF </p>
<p> FIRE ALARM SYSTEM FIRE ALARM CONTROL PANEL FIRE ALARM ANNUNCIATOR FIRE ALARM POWER SUPPLY FIRE ALARM TERMINAL CABINET MANUAL FIRE ALARM PULL STATION FIRE ALARM HORN FIRE ALARM HORN AND STROBE FIRE ALARM STROBE BELL DOOR HOLDER LIGHT SWITCH TAMPER SWITCH HEAT DETECTOR SMOKE DETECTOR SMOKE/CARBON DETECTOR SELF-CONTAINED 120 VOLT SMOKE DETECTOR SMOKE FIRE CAMPER CONTROL MODULE MONITOR MODULE POST INDICATOR VALVE BEAM DETECTOR TRANSMITTER BEAM DETECTOR RECEIVER </p>	<p> FIRE ALARM SYSTEM FIRE ALARM CONTROL PANEL FIRE ALARM ANNUNCIATOR FIRE ALARM POWER SUPPLY FIRE ALARM TERMINAL CABINET MANUAL FIRE ALARM PULL STATION FIRE ALARM HORN FIRE ALARM HORN AND STROBE FIRE ALARM STROBE BELL DOOR HOLDER LIGHT SWITCH TAMPER SWITCH HEAT DETECTOR SMOKE DETECTOR SMOKE/CARBON DETECTOR SELF-CONTAINED 120 VOLT SMOKE DETECTOR SMOKE FIRE CAMPER CONTROL MODULE MONITOR MODULE POST INDICATOR VALVE BEAM DETECTOR TRANSMITTER BEAM DETECTOR RECEIVER </p>	<p> A.C. ALTERNATING CURRENT A.F.G. ABOVE FINISHED GRADE A.L.T. ALTERNATE A.T.S. AUTOMATIC TRANSFER SWITCH A.M.G. AMERICAN WIRE GAUGE B.C. BASE COPPER B.C. BASE COPPER C. CONDUIT C.B. CIRCUIT BREAKER C.T. CURRENT TRANSFORMER C.O. COIL C.R. CURRENT TRANSFORMER C.V. COPPER C.W. COLD WATER D. DEMO, EXISTING TO BE REMOVED D.L. DUAL ELEMENT FUSE D.O.C. DISCONNECT D.P. DOUBLE POLE D.T.W. DOUBLE THROW DRAWING E. EXISTING TO REMAIN E.C. ELECTRICAL CONTRACTOR E.A. EACH E.E.P. EMPTY CONDUIT E.I.A. ELECTRICAL INDUSTRIES ASSOCIATION E.L.E.C. ELECTRICAL OR ELECTRIC E.M. EMERGENCY E.M.T. ELECTRICAL METALLIC TUBING E.O.L. END OF LINE RESISTOR E.N.C. ELECTRICAL WATER COOLER F. FUSE F.A. FIRE ALARM REMOTE F.A.C.P. FIRE ALARM CONTROL PANEL F.F. FINISHED BY OTHERS F.F. FIRE FOOT CANDLE F.F. FLOOR F.T. FOOT OR FEET G. GENERAL CONTRACTOR G.E.N. GENERATOR G.F.I. GROUND FAULT INTERRUPTER G.O. GROUND H.D. HIGH INTENSITY DISCHARGE H.P. HARMONIC H.Z. FREQUENCY CYCLES PER SECOND I.C. INTERCOM I.S. ISOLATED GROUND CONDUCTOR I.M.C. INTERMEDIATE METALLIC CONDUIT I.N. INSULATE J.-BOX JUNCTION BOX K. KVM KEY INTERLOCKED K.C.M. THOUSAND CIRCULAR MIL(S) K.V. KILOVOLT K.V.A. KILOVOLT AMPERE(S) K.W. KILOWATT K.W.H. KILOWATT HOUR L.C.L. LONG CONTINUOUS LOAD L.T.G. LIGHTING M. MAXIMUM M.C.C. MOTOR CONTROL CENTER M.H. MANHOLE M.N. MOUNTED M.T.D. MOUNTED M.T.S. MANUAL TRANSFER SWITCH </p>	
<p> WIRES AND RACEWAYS CONCEALED CONDUIT IN WALL OR CEILING CONCEALED CONDUIT BELOW FINISHED CEILING CONDUIT OR RACEWAY TURNED UP CONDUIT OR RACEWAY TURNED DOWN CONDUIT STUB OUT, CAP-OFF CONDUIT CONTINUATION NON-RATED CONDUIT LONG STROKES INDICATE NEUTRAL CONDUCTOR SHORT STROKES INDICATE PHASE OR SWITCHED CONDUCTOR LONG STROKES WITH DOTTED INDICATES GROUNDING CONDUCTOR SETS OF ONE INCH CONDUIT WITH THREE NUMBER EIGHT WIRE AND ONE NUMBER EIGHT GROUND </p>	<p> COMMUNICATIONS (+18" AFF. U.O.A.) TELEPHONE OUTLET WITH "CONDUIT UP TO ACCESSIBLE CEILING, U.O.A. DATA OUTLET WITH "CONDUIT UP TO ACCESSIBLE CEILING, U.O.A. COMBINATION TELEPHONE/DATA OUTLET WITH "CONDUIT UP TO ACCESSIBLE CEILING, U.O.A. WALL MOUNTED COMBO TELEPHONE/DATA OUTLET WITH "CONDUIT UP TO ACCESSIBLE CEILING, U.O.A. WIRELESS ACCESS POINT CARD READER TELEVISION OUTLET CAMERA (CCTV) SPEAKER TELEPHONE TERMINAL BACKBOARD </p>	<p> LIGHTING FIXTURES DOWNLIGHT/PENDANT LIGHT FIXTURE LINEAR WALL MOUNTED LIGHT FIXTURE WALL SCONCE 2'x4' LIGHT FIXTURE STRIP LIGHT FIXTURE POLE AND POLE MOUNTED LIGHT FIXTURES NUMBER OF HEADS AS SHOWN BOLLARD/GRADE LIGHT TRACK LIGHT FLOOD LIGHT WALL WASHER, ARROW INDICATES AIM EXIT SIGN, SHADING INDICATES FACE, ARROWS AS INDICATED BATTERY PACK, NUMBER OF HEADS AS SHOWN THERMAL OVERLOAD SWITCH TIMER SWITCH LOWER CASE LETTER INDICATES SWITCHING LOW VOLTAGE DIMMER SWITCH (SOME ABBREVIATIONS APPLY AS ABOVE) </p>	<p> PANELS AND RELATED ITEMS PANELBOARD - SURFACE PANELBOARD - RECESSED TRANSFORMER SWITCHBOARD OR DISTRIBUTION BOARD QUANTITY OF SECTIONS REQUIRED SHOWN </p>
<p> DEVICE MOUNTING HEIGHTS REFER TO ELECTRICAL SPECIFICATIONS FOR MORE INFORMATION. DIMENSIONAL NUMBERS SHOW ADJACENT TO SYMBOLS INDICATE THE CENTERLINE OF DEVICE MOUNTING HEIGHTS. NOTE: NOT ALL SYMBOLS ARE USED ON THIS PROJECT. </p>	<p> ANNOTATION TAGS AND NOMENCLATURE SHEET NOTE SYMBOL REVISION DELTA DETAIL CALLOUT TAG, # DESIGNATES DETAIL NUMBER, #B DESIGNATES SHEET ON WHICH DETAIL IS LOCATED MECHANICAL EQUIPMENT CALLOUT TAG, # DESIGNATES UNIT TYPE, # DESIGNATES UNIT NUMBER. </p>	<p> DEFERRED APPROVAL FOR FIRE ALARM SYSTEM: (DESIGN-BUILD BY CONTRACTOR) FIRE ALARM DESIGN SHALL BE SUBMITTED BY CONTRACTOR. OBTAIN APPROVAL FROM AUTHORITY HAVING JURISDICTION AND LOCAL PERMITS PRIOR TO INSTALLATION. </p> <p> DEFERRED EMERGENCY ILLUMINATION LEVEL NOTES: 1. THE MEANS OF EGRESS ILLUMINATION LEVEL SHALL NOT BE LESS THAN 1 FOOT-CANDLE AT THE WALKING SURFACE LEVEL. 2. EMERGENCY LIGHTS SHALL BE PROVIDED IN ALL MEANS OF EGRESS. 3. THE EMERGENCY LUMINAIRE SHALL PROVIDE AN INITIAL AVERAGE ILLUMINATION LEVEL OF AT LEAST 1 FOOT-CANDLE BUT AT ANY POINT IT SHALL NOT BE LESS THAN 0.1 FOOT-CANDLE ALONG THE PATH OF EGRESS AT FLOOR LEVEL. 4. AT THE END OF THE REQUIRED EMERGENCY SOURCE TIME DURATION, THE EMERGENCY LUMINAIRE SHALL BE PROVIDE AN AVERAGE ILLUMINATION LEVEL OF AT LEAST 0.1 FOOT-CANDLE BUT AT ANY POINT IT SHALL NOT BE LESS THAN 0.01 FOOT-CANDLE ALONG THE PATH OF EGRESS AT FLOOR LEVEL. 5. THE EMERGENCY ILLUMINATION LEVEL SHALL HAVE A MINIMUM-TO-MAXIMUM EMERGENCY ILLUMINATION UNIFORMITY RATIO THAT DOES NOT EXCEED 10:1. 6. CONTRACTOR SHALL SUBMIT EMERGENCY ILLUMINATION LEVEL STUDY AND DRAWINGS SIGNED AND STAMP BY A REGISTERED ELECTRICAL ENGINEER. OBTAIN APPROVAL BY AUTHORITY HAVING JURISDICTION PRIOR TO BEGIN WORK. </p>	

ELECTRICAL SHEET INDEX

NO.	GENERAL NOTES, LEGEND, AND SHEET INDEX
E001	GENERAL NOTES, LEGEND, AND SHEET INDEX
E002	ELECTRICAL SPECIFICATIONS
E003	TITLE 24
E004	TITLE 24 AND LIGHT FIXTURE SCHEDULE
E005	CARPENTRY/POOL LIGHTING PLAN
E006	1ST FLOOR LIGHTING PLAN
E007	ENLARGED 1ST FLOOR LIGHTING PLAN
E008	2ND FLOOR LIGHTING PLAN
E009	ENLARGED 2ND FLOOR LIGHTING PLAN
E010	CARPENTRY/POOL LIGHTING PLAN
E011	1ST FLOOR POWER PLAN
E012	ENLARGED 1ST FLOOR POWER PLAN
E013	1ST FLOOR POWER PLAN
E014	ENLARGED 2ND FLOOR POWER PLAN
E015	2ND FLOOR POWER PLAN
E016	ENLARGED 2ND FLOOR POWER PLAN
E017	ELECTRICAL RFP PLAN
E018	SINGLE LINE DIAGRAM AND PANEL SCHEDULE
E019	LIGHTING CONTROL DIAGRAMS
E020	EMERGENCY LIGHTING PHOTOMETRIC CALCULATIONS

INNOVATIVE ENGINEERING GROUP, INC.
 1200 E COLORADO BLVD
 PASADENA, CA 91108

ROSE AND CROWN HOTEL

NO.	REVISION/ISSUE	DATE
	REVIEW SET	2016-03-01
	PLAN CHECK SET	2016-03-01
	PLAN CHECK CORRECTIONS	2016-03-01
	PLAN CHECK RESUBMIT	2016-03-01
	PLAN CHECK RESUBMIT	2016-03-01

GENERAL NOTES, LEGENDS, AND SHEET INDEX

PROJECT	2016-11-08	NO.	E001
ISSUE	AS SHOWN		

STATE OF CALIFORNIA
INDOOR LIGHTING
 (NCCES 1.1.1.1) (FORM 015)
 CERTIFICATE OF COMPLIANCE
 Indoor Lighting
 Project Name: Rose and Crown Hotel
 Date Prepared: 2/29/2016
 Page 3 of 6

4. Declaration of Required Certificates of Acceptance
 Declare by checking all of the Certificates of Acceptance that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	Field Inspector
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NCC-1.1.1.1-1.1.1.1 - Must be submitted for occupancy sensors and automatic time switch controls.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NCC-1.1.1.1-1.1.1.1-1.1.1.1 - Must be submitted for automatic daylight controls.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NCC-1.1.1.1-1.1.1.1-1.1.1.1-1.1.1.1 - Must be submitted for demand response lighting controls.

A separate Lighting Schedule must be filed out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
 CONDITIONED SPACE UNCONDITIONED SPACE

A separate Lighting Schedule must be filed out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
 CONDITIONED SPACE UNCONDITIONED SPACE

A separate Lighting Schedule must be filed out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
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CA Building Energy Standards - 2013 Nonresidential Compliance August 2015

STATE OF CALIFORNIA
INDOOR LIGHTING
 (NCCES 1.1.1.1) (FORM 015)
 CERTIFICATE OF COMPLIANCE
 Indoor Lighting
 Project Name: Rose and Crown Hotel
 Date Prepared: 2/29/2016
 Page 2 of 6

C. Summary of Allowed Lighting Power
 Conditioned and Unconditioned Spaces Lighting must not be combined for compliance

Subpart Lighting Power for Conditioned Spaces			Indoor Lighting Power for Unconditioned Spaces		
Item	Watts	VA	Item	Watts	VA
1. Installed Lighting Power (NCCES 1.1.1.1, page 1)	1,401	0	1. Installed Lighting Power (NCCES 1.1.1.1, page 1)	0	0
2. Minus Lighting Control Credits (NCCES 1.1.1.1, page 1)	0	0	2. Minus Lighting Control Credits (NCCES 1.1.1.1, page 1)	0	0
3. Adjusted Installed Lighting Power (from 1 minus 2)	1,401	0	3. Adjusted Installed Lighting Power (from 1 minus 2)	0	0
4. Allowed Lighting Power (Conditioned NCCES 1.1.1.1, page 1)	1,408	0	4. Allowed Lighting Power (Unconditioned NCCES 1.1.1.1, page 1)	0	0

D. Declaration of Required Installation Certificates
 Declare by selecting all of the Installation Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	Field Inspector
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NCC-1.1.1.1-1.1.1.1 - Must be submitted for all buildings.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NCC-1.1.1.1-1.1.1.1-1.1.1.1 - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NCC-1.1.1.1-1.1.1.1-1.1.1.1-1.1.1.1 - Must be submitted for a line voltage track lighting integral current limiter, or for a supplementary emergency protection gear used to energize only line voltage track lighting, to be recognized for compliance.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NCC-1.1.1.1-1.1.1.1-1.1.1.1-1.1.1.1-1.1.1.1 - Must be submitted for line track lighting systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NCC-1.1.1.1-1.1.1.1-1.1.1.1-1.1.1.1-1.1.1.1-1.1.1.1 - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NCC-1.1.1.1-1.1.1.1-1.1.1.1-1.1.1.1-1.1.1.1-1.1.1.1-1.1.1.1 - Must be submitted for additional wattage installed in a video production studio to be recognized for compliance.

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STATE OF CALIFORNIA
INDOOR LIGHTING
 (NCCES 1.1.1.1) (FORM 015)
 CERTIFICATE OF COMPLIANCE
 Indoor Lighting
 Project Name: Rose and Crown Hotel
 Date Prepared: 2/29/2016
 Page 1 of 6

A. General Information

Climate Zone: 9
 Conditioned Floor Area: 1,158
 Unconditioned Floor Area: 0

Building Type: Nonresidential High Rise Residential Mixed/Other

Schools: Recreational Public Schools Conditioned Spaces Unconditioned Spaces

Phase of Construction: New Construction Addition Alteration

Method of Compliance: Complete Building Area Category Tailored

Project Address: 1205 E Colorado Blvd

B. Lighting Compliance (Indicate yes for each document included)

YES	NO	FORM	TITLE
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NCC-1.1.1.1-1.1.1.1	Certificate of Compliance - All Pages required on plans for all submittals.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NCC-1.1.1.1-1.1.1.1-1.1.1.1	Lighting Controls, Certificate of Compliance, and PAF Calculation. All Pages required on plans for all submittals.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NCC-1.1.1.1-1.1.1.1-1.1.1.1-1.1.1.1	Indoor Lighting Power Allowance
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NCC-1.1.1.1-1.1.1.1-1.1.1.1-1.1.1.1-1.1.1.1	Tailored Method Worksheet
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NCC-1.1.1.1-1.1.1.1-1.1.1.1-1.1.1.1-1.1.1.1-1.1.1.1	Line Voltage Track Lighting Worksheet

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STATE OF CALIFORNIA
INDOOR LIGHTING
 (NCCES 1.1.1.1) (FORM 015)
 CERTIFICATE OF COMPLIANCE
 Indoor Lighting
 Project Name: Rose and Crown Hotel
 Date Prepared: 2/29/2016
 Page 3 of 6

A separate Lighting Schedule must be filed out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
 CONDITIONED SPACE UNCONDITIONED SPACE

II. INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST

Area	Luminaire Schedule	Installed Watts		Location	Field Inspector
		Watts	VA		
E	180 CFL	180	0	Lobby, Hotel	
F	230 LED	230	0	Lobby, Main Entry	

INSTALLED WATTS/PAGE TOTAL: 100

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STATE OF CALIFORNIA
INDOOR LIGHTING
 (NCCES 1.1.1.1) (FORM 015)
 CERTIFICATE OF COMPLIANCE
 Indoor Lighting
 Project Name: Rose and Crown Hotel
 Date Prepared: 2/29/2016
 Page 1 of 6

A separate Lighting Schedule must be filed out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
 CONDITIONED SPACE UNCONDITIONED SPACE

II. INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST

Area	Luminaire Schedule	Installed Watts		Location	Field Inspector
		Watts	VA		
A	20W LED	20.0	0	Dining	
B	20W LED	20.0	0	Dining	
C	4.4x6FT	4.4	0	Lobby, Main Entry	
D	23w LED	23.0	0	Dining	
E	23w LED	23.0	0	Lobby, Hotel	
F	23w LED	23.0	0	Office <= 250 sqft	
G	23w LED	23.0	0	Lobby, Main Entry	
H	23w LED	23.0	0	Condo/Resident/Suitor	

INSTALLED WATTS/PAGE TOTAL: 1,301

CA Building Energy Standards - 2013 Nonresidential Compliance August 2015

STATE OF CALIFORNIA
INDOOR LIGHTING
 (NCCES 1.1.1.1) (FORM 015)
 CERTIFICATE OF COMPLIANCE
 Indoor Lighting
 Project Name: Rose and Crown Hotel
 Date Prepared: 2/29/2016
 Page 4 of 6

B. Installed Portable Luminaires in Offices - Exception to Section 140.1.1

This compliance form:
 This section shall be filed out ONLY for portable luminaires in offices (As defined in 140.1.1). All other planned portable luminaires shall be documented on next page of this compliance form.
 This section is used to determine if greater than 0.3 watts of portable lighting is planned for any office.
 All out a separate line for each different office. Small offices that are typical (having the same general and portable lighting) may be grouped together. This allowance shall not be traded between offices having different lighting systems.

Office Location	Office Installed Portable Luminaires Watts Per Square Foot								Field Inspector
	1	2	3	4	5	6	7	8	
Office Location	1	2	3	4	5	6	7	8	Field Inspector

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STATE OF CALIFORNIA
INDOOR LIGHTING - LIGHTING CONTROLS
 (NCCES 1.1.1.1) (FORM 015)
 CERTIFICATE OF COMPLIANCE
 Indoor Lighting - Lighting Controls
 Project Name: Rose and Crown Hotel
 Date Prepared: 2/29/2016
 Page 2 of 3

A separate document must be filed out for Conditioned and Unconditioned Spaces. This page is used only for the following:
 CONDITIONED SPACES UNCONDITIONED SPACES

MANDATORY AND PREScriptive INDOOR LIGHTING CONTROL SCHEDULE, PAF CALCULATION, and FIELD INSPECTION CHECKLIST

Location in Building	Lighting Control Schedule	Standards Complying With										Field Inspector
		A	B	C	D	E	F	G	H	I	J	
LOBBY	DMER_ZS/AMLIGHT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
DINING	DMER_ZS/AMLIGHT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
RESTROOM AND SUPPORT	DMER_ZS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

CA Building Energy Standards - 2013 Nonresidential Compliance August 2015

STATE OF CALIFORNIA
INDOOR LIGHTING - LIGHTING CONTROLS
 (NCCES 1.1.1.1) (FORM 015)
 CERTIFICATE OF COMPLIANCE
 Indoor Lighting - Lighting Controls
 Project Name: Rose and Crown Hotel
 Date Prepared: 2/29/2016
 Page 3 of 3

The NCCES 1.1.1.1-1.1.1.1 shall be used to document all mandatory and prescriptive lighting controls that are applicable to the project.

Mandatory Lighting Control Declaration Statements (Indicate Y for the measure applied by checking yes or no below.)

YES	NO	Control Requirements
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Requirements for accordance with Section 130.1.1.1.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lighting shall be controlled by a lighting control system or energy management control system in accordance with 130.1.1.1. An installation Certificate shall be submitted in accordance with Section 130.1.1.1.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	One or more track lighting integral current limiter shall be installed which has been certified by the Energy Commission in accordance with 130.1.1.1 and 130.1.1.1. Additionally, an installation Certificate shall be submitted in accordance with Section 130.1.1.1.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	All lighting controls and equipment shall comply with the applicable requirements in 130.1.1.1 and shall be installed in accordance with the manufacturer's instructions in accordance with Section 130.1.1.1.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	All luminaires shall be functionally controlled with manually switched ON and OFF lighting controls in accordance with Section 130.1.1.1.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	General lighting shall be separately controlled from all other lighting systems in an area. Floor and wall displays, window displays, door displays, ornamental, and special effects lighting shall each be separately controlled on circuits that are 20 amps or less. When track lighting is used, general, display, ornamental, and special effects lighting shall each be separately controlled, in accordance with Section 130.1.1.1.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	The general lighting of any enclosed area 100 square feet or larger with a connected lighting load that exceeds 0.3 watts per square foot shall meet the multi-level lighting control requirements in accordance with Section 130.1.1.1.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	All multi-level lighting shall be equipped with controls that meet the applicable that OFF control requirements in Section 130.1.1.1.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lighting's all Daylight Zones shall be controlled in accordance with the requirements in Section 130.1.1.1 and daylight zones are shown on the plans.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lighting's on buildings larger than 10,000 square feet of all be capable of being automatically respond in response to a Demand Response Signal in accordance with Section 130.1.1.1.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lighting's occupancy sensors are installed in a newly constructed building or area, or a new lighting system serving a building area, or are installed for normal use, indoor lighting controls serving the building area, or are shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with Section 130.1.1.1. The controls required to meet the Acceptance Requirements include automatic daylight controls, automatic on/off controls and demand response controls.

CA Building Energy Standards - 2013 Nonresidential Compliance August 2015

STATE OF CALIFORNIA
INDOOR LIGHTING
 (NCCES 1.1.1.1) (FORM 015)
 CERTIFICATE OF COMPLIANCE
 Indoor Lighting
 Project Name: Rose and Crown Hotel
 Date Prepared: 2/29/2016
 Page 4 of 6

DOCUMENTATION AUTHOR - DECLARATION STATEMENT

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

Documentation Author Signature: TAMARA VOSS
 Title: Innovative Engineering Group, Inc.
 Date: 2/29/2016
 Project Address: 250 DANFORD DR., 2ND FLOOR, MONTREY PARK, CA 91754
 CA PE 21496

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

- The information provided on this Certificate of Compliance is true and correct.
- I am eligible under Section 4 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance.
- The building design and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 2 of the California Code of Regulations.
- The building design, materials or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
- I will ensure that a completed copy of this Certificate of Compliance shall be made available with the building permit issued for the building, and made available to the enforcement agency for applicable inspections. I understand that a completed copy of this Certificate of Compliance is required to be filed with the documentation the building permits to the building permit application.

Responsible Person Name: Tamara Voss
 Title: Innovative Engineering Group, Inc.
 Date: 2/29/2016
 Project Address: 250 DANFORD DR., Suite 200, MONTREY PARK, CA 91754
 CA PE 21496

CA Building Energy Standards - 2013 Nonresidential Compliance August 2015

2015 Developer Use Only
 1. REGISTERED PROFESSIONAL ENGINEER
 INNOVATIVE ENGINEERING GROUP, INC.
 1205 E COLORADO BLVD
 PASADENA, CA 91106

ROSE AND CROWN HOTEL

PROJECT NO. 15000

NO. REVIEW ISSUE DATE

REVIEW SET	2016-03-01
PLAN CHECK SET	2016-03-01
PLAN CHECK CORRECTIONS	2016-03-19
PLAN CHECK RESUBMIT	2016-03-20
PLAN CHECK RESUBMIT	2016-03-20

TITLE 24

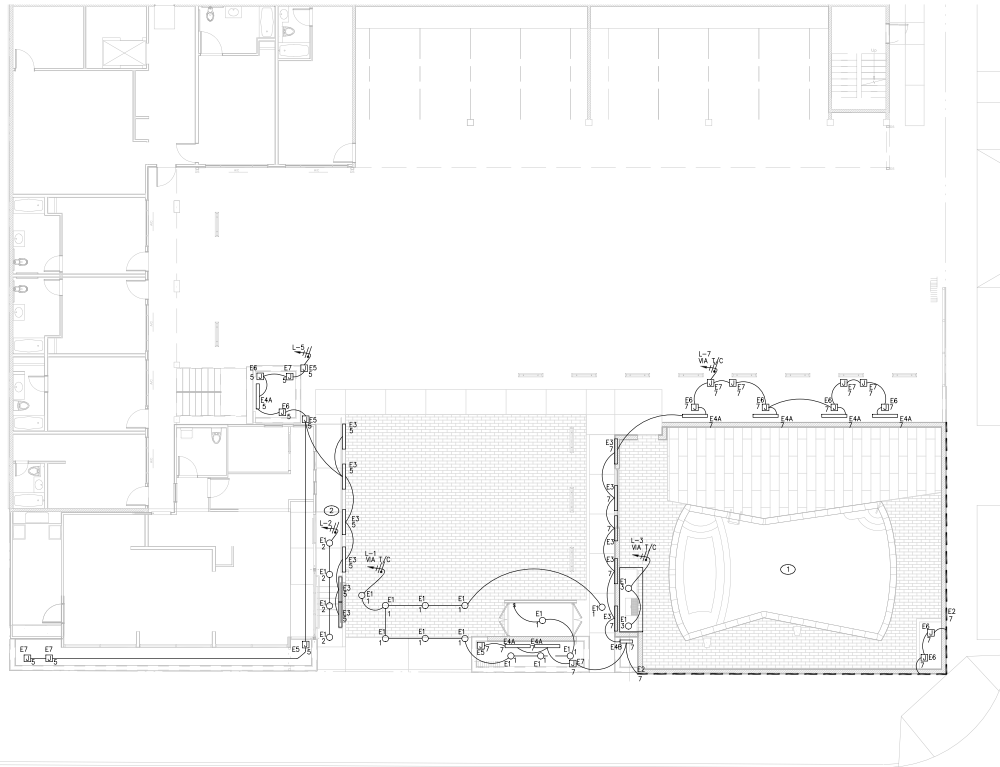
PROJECT 2016-11-08
 REPORT E003

GENERAL NOTES

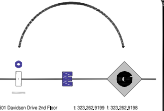
A. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS, SECTIONS, ELEVATIONS, ETC. FOR EXACT LOCATION OF LIGHTING FIXTURES.

KEYED NOTES

1. POOL/SPA LIGHTING SHALL BE DONE BY POOL CONTRACTOR
2. CONNECT TO PHYTOCELL/TIMELOCK.



1 CARPORT/POOL LIGHTING PLAN
SCALE: 1/8" = 1'-0"



2201 Overton Drive, Suite 200
Pasadena, CA 91106
TEL: 626-799-9300
FAX: 626-799-9301
WWW: INNOVATIVE-ENGINEERING.COM
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ROSE AND CROWN HOTEL

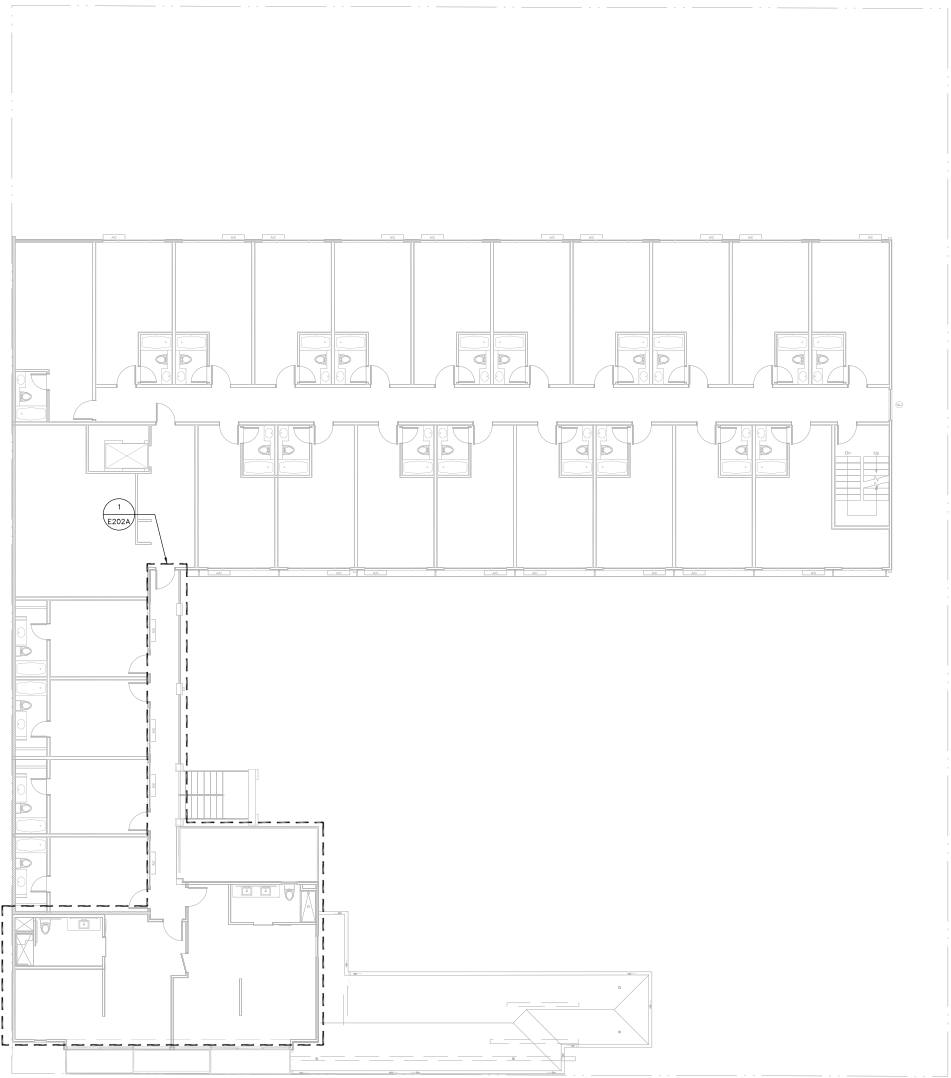
1200 E COLORADO BLVD
PASADENA, CA 91106



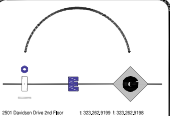
NO.	REVISION/ISSUE	DATE
	REVIEW SET	2016-03-01
	PLAN CHECK SET	2016-03-01
	PLAN CHECK CORRECTIONS	2016-03-15
	PLAN CHECK RESUBMIT	2016-03-20
	PLAN CHECK RESUBMIT	2016-03-20

SHEET TITLE
CARPORT/POOL LIGHTING PLAN

PROJECT	ROSE AND CROWN HOTEL
DATE	2016-11-08
SCALE	AS NOTED
E200	



1 SECOND FLOOR LIGHTING PLAN
SCALE: 1/8" = 1'-0"



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ROSE AND CROWN HOTEL
 1200 E COLORADO BLVD
 PASADENA, CA 91106

PROJECT NAME

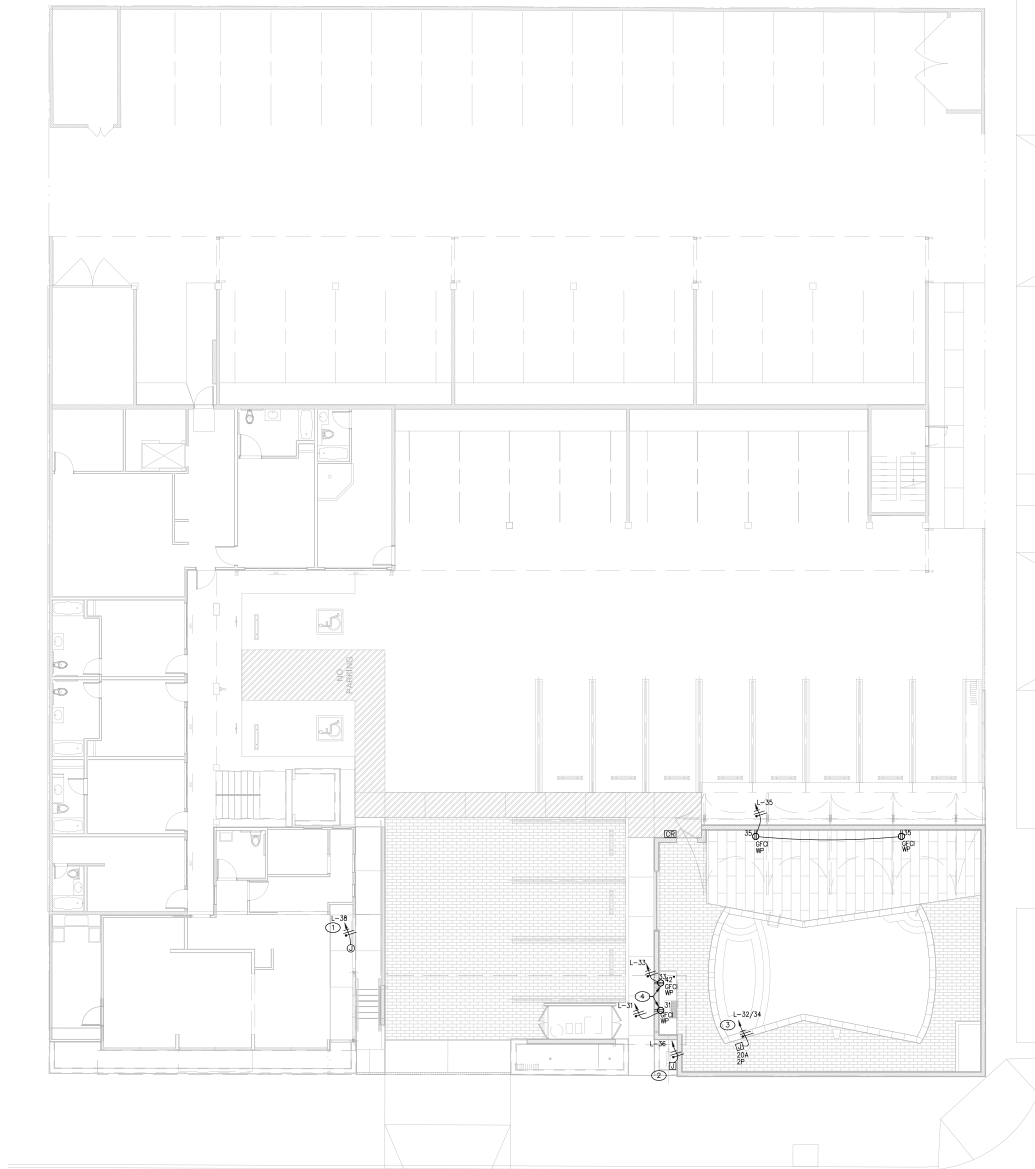
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NO.	REVISION/ISSUE	DATE
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	PLAN CHECK SET	2016-03-01
	PLAN CHECK CORRECTIONS	2016-09-19
	PLAN CHECK RESUBMIT	2016-09-20
	PLAN CHECK RESUBMIT	2016-11-08

SHEET TITLE
SECOND FLOOR LIGHTING PLAN

PROJECT	DATE	NO.
	2016-11-08	E202
SCALE	AS NOTED	



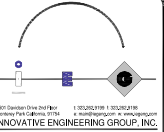
1 CARPORT/POOL POWER PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES

- A. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL ELECTRICAL, VENTILES, DEVICES, AND MOUNTING HEIGHT.
- B. REFER TO MECHANICAL DRAWINGS FOR LOCATION OF ALL MECHANICAL EQUIPMENT.
- C. NO EQUIPMENT, J-BOX, ETC. REQUIRED ACCESS SHALL BE LOCATED IN HARD CEILING AREAS UNLESS ACCESS PANEL IS PROVIDED. COORDINATE WITH ARCHITECT. RELOCATE ANY EXISTING EQUIPMENT, J-BOX, ETC. TO ACCESSIBLE CEILING AREA.

KEYED NOTES

- 1 POWER FOR AUTOMATIC SLIDING DOOR, COORDINATE LOCATION AND REQUIREMENTS WITH ARCHITECT.
- 2 STUB-UP FOR STORAGE POWER, COORDINATE LOCATION AND REQUIREMENTS WITH ARCHITECT.
- 3 STUB-UP FOR SPA POWER, COORDINATE LOCATION AND REQUIREMENTS WITH ARCHITECT.
- 4 RECEPTACLES FOR BBQ GRILLS AND COUNTER, COORDINATE LOCATIONS WITH ARCHITECT.



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ROSE AND CROWN HOTEL

1200 E COLORADO BLVD
PASADENA, CA 91106

PROJECT NAME

DATE



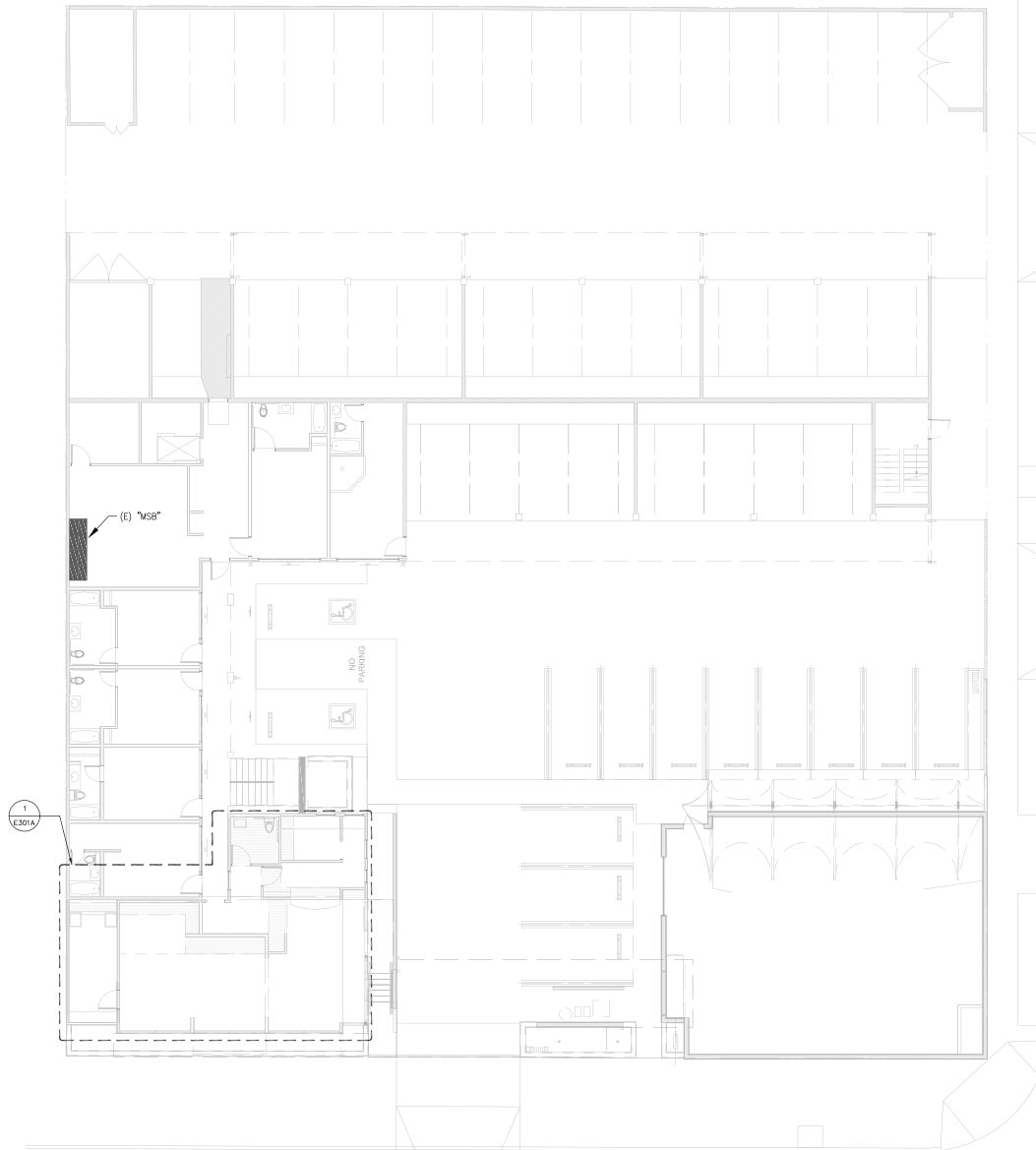
NO.	REVISION/ISSUE	DATE
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	PLAN CHECK SET	2016-03-01
	PLAN CHECK CORRECTIONS	2016-09-19
	PLAN CHECK RESUBMIT	2016-09-20
	PLAN CHECK RESUBMIT	2016-11-08

PROJECT
CARPORT/POOL POWER PLAN


PROJECT	DRAWN BY
DATE	REVISION
SCALE	HEET
AS NOTED	E300

GENERAL NOTES

A. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL ELECTRICAL OUTLETS, DEVICES, AND MOUNTING HEIGHT.



1 FIRST FLOOR POWER PLAN
SCALE: 1/8" = 1'-0"



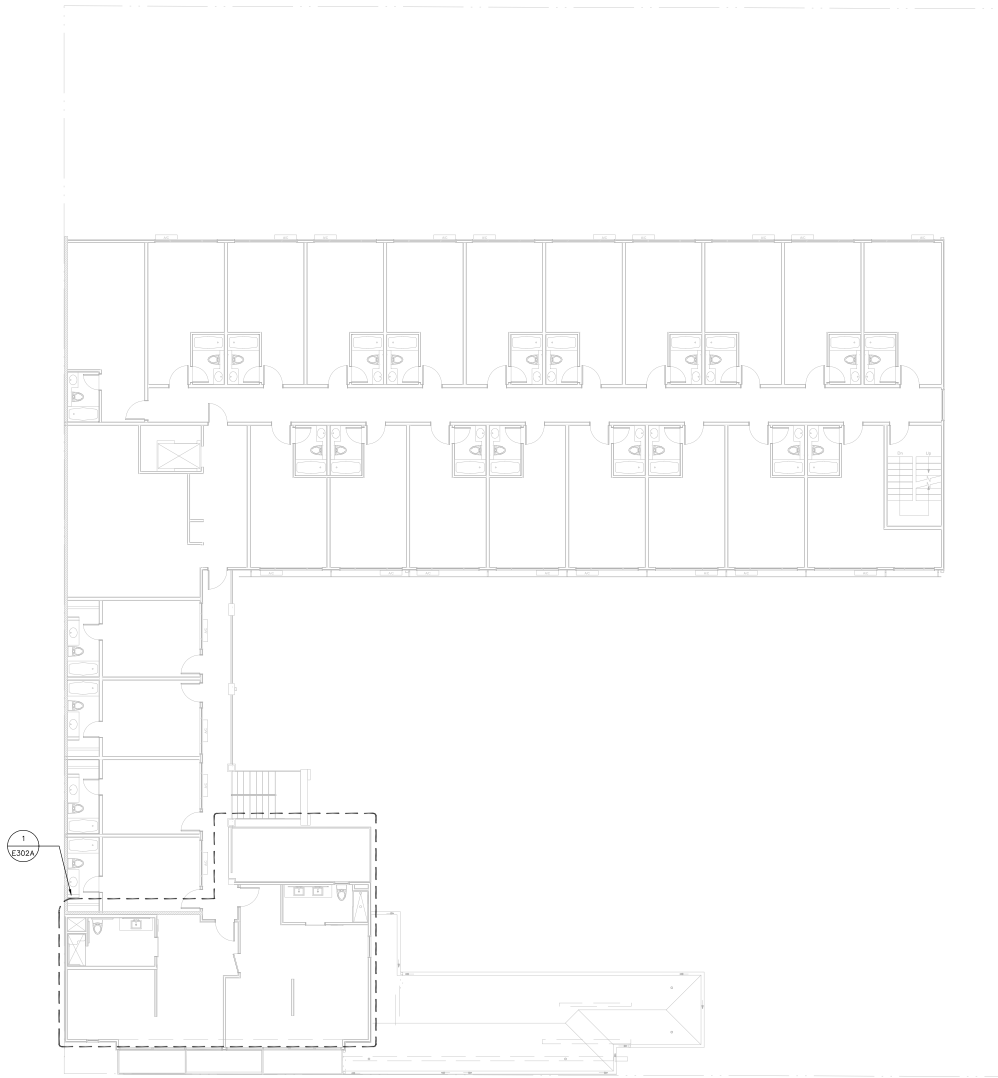
ROSE AND CROWN HOTEL

1200 E COLORADO BLVD
PASADENA, CA 91106

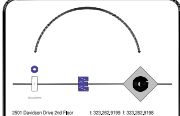
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	PLAN CHECK SET	2016-03-01
	PLAN CHECK CORRECTIONS	2016-09-19
	PLAN CHECK RESUBMIT	2016-09-20
	PLAN CHECK RESUBMIT	2016-11-08

**FIRST FLOOR
POWER PLAN**

PROJECT	DATE	NO.
	2016-11-08	E301
SCALE	AS NOTED	



1 SECOND FLOOR POWER PLAN
SCALE: 1/8" = 1'-0"



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ROSE AND CROWN HOTEL
1200 E COLORADO BLVD
PASADENA, CA 91106

PROJECT NAME

DATE



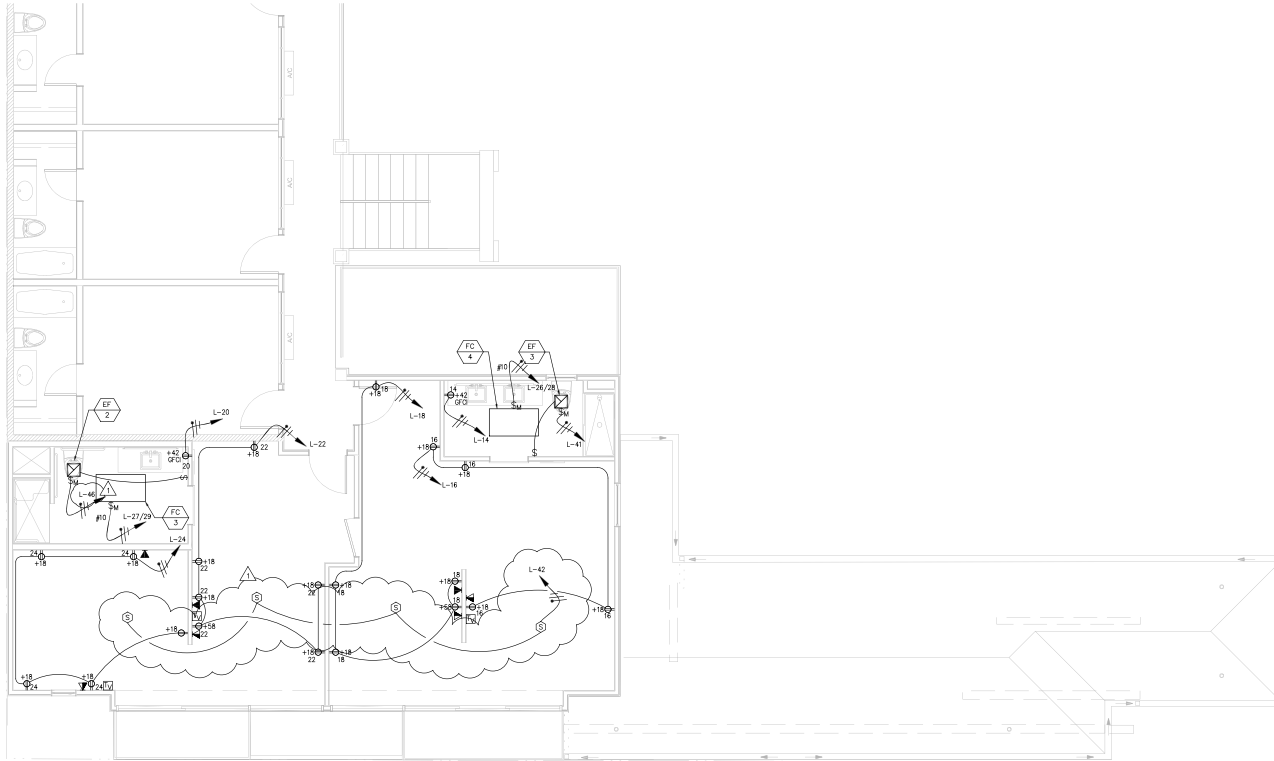
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	REVIEW SET	2016-03-01
	PLAN CHECK SET	2016-03-01
	PLAN CHECK CORRECTIONS	2016-09-19
	PLAN CHECK RESUBMIT	2016-09-20
	PLAN CHECK RESUBMIT	2016-11-08

SHEET TITLE
**SECOND FLOOR
POWER PLAN**

PROJECT	DRAWN BY
DATE	REVISION
SCALE	SHEET
AS NOTED	E302

GENERAL NOTES

- A. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL ELECTRICAL OUTLETS, DEVICES, AND MOUNTING HEIGHT.
- B. REFER TO MECHANICAL DRAWINGS FOR LOCATION OF ALL MECHANICAL EQUIPMENT.
- C. NO EQUIPMENT, J-BOX, ETC. REQUIRED ACCESS SHALL BE LOCATED IN HARD CEILING AREAS UNLESS ACCESS PANEL IS PROVIDED. COORDINATE WITH ARCHITECT. RELOCATE ANY EXISTING EQUIPMENT, J-BOX, ETC. TO ACCESSIBLE CEILING AREA.



1 ENLARGED SECOND FLOOR POWER PLAN
SCALE: 1/8"=1'-0"

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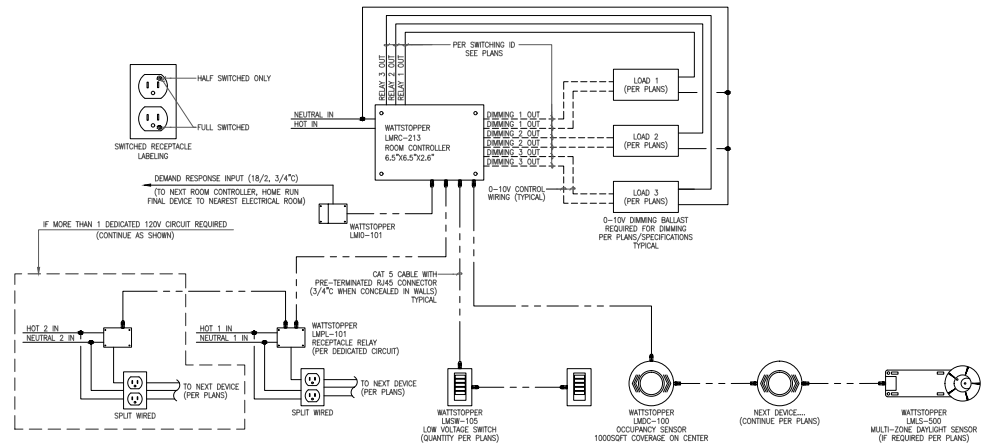
ROSE AND CROWN HOTEL

1200 E COLORADO BLVD
PASADENA, CA 91106

NO.	REVISION/ISSUE	DATE
	REVIEW SET	2016-03-01
	PLAN CHECK SET	2016-03-01
△	PLAN CHECK CORRECTIONS	2016-09-19
	PLAN CHECK RESUBMIT	2016-09-20
	PLAN CHECK RESUBMIT	2016-11-08

ENLARGED SECOND FLOOR POWER PLAN

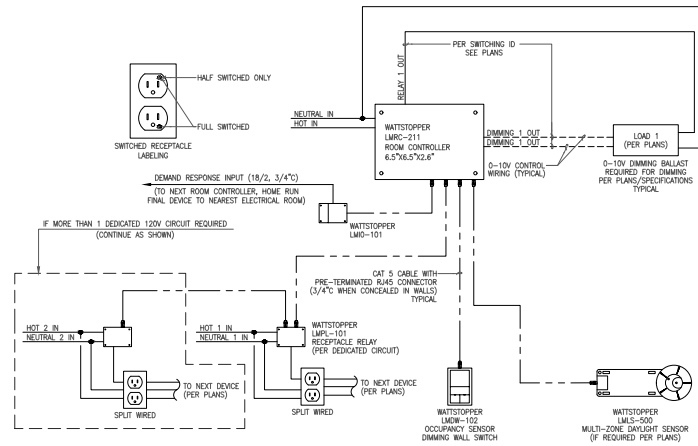
PROJECT	ROSE AND CROWN HOTEL
DATE	2016-11-08
SCALE	AS NOTED
SHEET NO.	E302A



NOTE: REFER TO ALL MANUFACTURERS' INSTALLATION INSTRUCTIONS FOR CORRECT WIRING INFORMATION. THIS DIAGRAM INDICATES FUNCTIONAL INTENT. PROVIDE ALL PARTS AND ACCESSORIES PER MANUFACTURER FOR A COMPLETE INSTALLATION. LOCATE OCCUPANCY SENSORS AND DAY LIGHT SENSORS PER MANUFACTURERS RECOMMENDATIONS. NOT ALL DEVICES SHOWN IN THIS DETAIL MAY BE USED. REFER TO THE FLOOR PLANS FOR DEVICES USED AND QUANTITY.

ROOM CONTROL DETAIL W/ NO EMERGENCY

N.T.S. 2



NOTE: REFER TO ALL MANUFACTURERS' INSTALLATION INSTRUCTIONS FOR CORRECT WIRING INFORMATION. THIS DIAGRAM INDICATES FUNCTIONAL INTENT. PROVIDE ALL PARTS AND ACCESSORIES PER MANUFACTURER FOR A COMPLETE INSTALLATION. LOCATE OCCUPANCY SENSORS AND DAY LIGHT SENSORS PER MANUFACTURERS RECOMMENDATIONS. NOT ALL DEVICES SHOWN IN THIS DETAIL MAY BE USED. REFER TO THE FLOOR PLANS FOR DEVICES USED AND QUANTITY.

ROOM CONTROL DETAIL (OFFICE SWITCHING)

N.T.S. 1

2000 Dowden Drive, Suite 200 8150 SHELTER 1 DRIVE, SUITE 200
 Pasadena, CA 91104 Pasadena, CA 91104
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ROSE AND CROWN HOTEL
 1200 E COLORADO BLVD
 PASADENA, CA 91106

NO.	REVISION/ISSUE	DATE
	REVIEW SET	2016-03-07
	PLAN CHECK SET	2016-03-07
	PLAN CHECK CORRECTIONS	2016-03-10
	PLAN CHECK RESUBMIT	2016-03-03
	PLAN CHECK RESUBMIT	2016-03-03

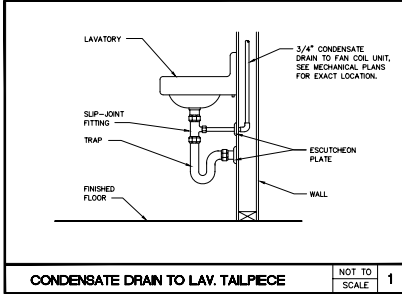
LIGHTING CONTROL
 DIAGRAMS

PROJECT	DRWING BY
2016-11-08	REGISTRATION
DATE	NO.
AS NOTED	E601

PLUMBING FIXTURE SCHEDULE						
MARK	FIXTURE	HW	CW	W	VENT	DESCRIPTION
WC-1	WATER CLOSET (RESIDENTIAL)	-	1/2"	3"	2"	PER OWNER/ARCHITECT SPECIFICATION: FLUSH TANK 1.28 GPF
WC-2	WATER CLOSET (ADA RESIDENTIAL)	-	1/2"	3"	2"	PER OWNER/ARCHITECT SPECIFICATION: FLUSH TANK 1.28 GPF
WC-3	WATER CLOSET (ADA PUBLIC)	-	1/2"	3"	2"	PER OWNER/ARCHITECT SPECIFICATION: FLUSH TANK 1.28 GPF
L-1	LAVATORY (RESIDENTIAL)	1/2"	1/2"	2"	1 1/2"	PER OWNER/ARCHITECT SPECIFICATION: 1.5 GPM
L-2	LAVATORY (ADA RESIDENTIAL)	1/2"	1/2"	2"	1 1/2"	PER OWNER/ARCHITECT SPECIFICATION: 1.5 GPM
L-3	LAVATORY (ADA PUBLIC)	1/2"	1/2"	2"	1 1/2"	PER OWNER/ARCHITECT SPECIFICATION: 0.5 GPM PROVIDE ASSE 1070 THERMOSTATIC MIXING VALVE TO LIMIT HOT WATER TO 120°F MAX.
SH-1	SHOWER (RESIDENTIAL)	1/2"	1/2"	2"	1 1/2"	PER OWNER/ARCHITECT SPECIFICATION: 2.0 GPM, ASSE 1016
SH-1	SHOWER (ADA RESIDENTIAL)	1/2"	1/2"	2"	1 1/2"	PER OWNER/ARCHITECT SPECIFICATION: 2.0 GPM, ASSE 1016

PLUMBING LEGEND		
SYMBOL	ABBREVIATION	DESCRIPTION
—	S OR W	SOIL OR WASTE BELOW FLOOR OR GRADE
—	S OR W	SOIL OR WASTE ABOVE FLOOR
—	V	SANITARY VENT
—	CW	DOMESTIC COLD WATER
—	HW	DOMESTIC HOT WATER
—	F	FIRE LINE
—	G	GAS
—	MG	MEDIUM PRESSURE GAS
—	GC	GAS COOK
—	CD	CONDENSATE DRAIN
—	PCD	PUMPED CONDENSATE DRAIN
—	FS	FLOOR SINK
—	SOV	SHUT OFF VALVE
—	CV	CHECK VALVE
—	RBPB	REDUCED PRESSURE BACKFLOW PREVENTOR
—	U	UNION
—	P	PIPING DOWN
—	U	PIPING UP
—	FOO	FLOOR CLEANOUT
—	WCO	WALL CLEANOUT
—	POC	POINT OF CONNECTION
—	SCW	SOFT COLD WATER

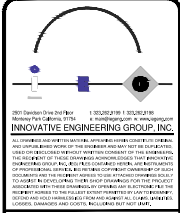
ABBREVIATIONS			
ABBR.	DESCRIPTION	ABBR.	DESCRIPTION
ABV	ABOVE	HGR	HEADER
AP	ACCESS PANEL	GPF	GALLONS PER FLUSH
BEL	BELOW	GPM	GALLONS PER MINUTE
BEH	BEHIND	HZ	HERTZ
CI	CAST IRON	HP	HORSEPOWER
CLO	CEILING	IN	INCHES
CONN	CONNECTION	KW	KILOWATT
CONT	CONTRIBUTION	PH	PHASE (ELECTRICAL)
CD	CONDENSATE DRAIN	LB	POUNDS
DN	DOWN	PSI	POUNDS PER SQUARE INCH
DWG	DRAWINGS	STN	STAINLESS
EXIST	EXISTING	STL	STEEL
FLR	FLOOR	TYP.	TYPICAL
FT	FEET	W	WITH
FU	FIXTURE UNIT	WCO	WALL CLEANOUT
SCD	SECONDARY CONDENSATE DRAIN	SCW	SOFT COLD WATER



PIPE MATERIAL SCHEDULE									
SERVICE	PIPE MATERIAL	PIPE SIZE	INSULATION	TESTING	OTHER	REMARKS			
WATER	ABOVE GRADE								
WATER	BELOW GRADE/FLOOR								
SANITARY DRAINAGE	ABOVE GRADE								
SANITARY DRAINAGE	BELOW GRADE/FLOOR								
SANITARY VENT	ABOVE GRADE								
SANITARY VENT	BELOW GRADE/FLOOR								
STORM DRAIN	ABOVE GRADE								
STORM DRAIN	BELOW GRADE/FLOOR								
GAS	ABOVE GRADE								
GAS	BELOW GRADE								
INDIRECT DRAIN	ABOVE GRADE					WITH INSULATION			

- ### GENERAL NOTES
- CONTRACTOR VERIFICATION: CONTRACTOR SHALL VERIFY EXACT POINTS OF CONNECTION AND CAPABILITIES OF EXISTING UTILITIES PRIOR TO SUBMITTING BID AND START OF WORK. IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
 - FIXTURES: ALL MANUFACTURERS, LOCATIONS, MOUNTING HEIGHTS AND COLORS OF PLUMBING FIXTURES SHALL BE OBTAINED FROM THE ARCHITECTURAL DRAWINGS. FIXTURES SPECIFIED BUT NOT ALLOWED MAY BE SUBSTITUTED WITH AN APPROVED EQUAL DURING SUBMITTAL REVIEW PROCESS. ALL PLUMBING FIXTURES SHALL MEET THE FLOW RATE REQUIREMENT OF CPC SECTION 94.402.1.1.
 - DISABLED ACCESS FIXTURE: SEE ARCHITECTURAL DRAWINGS TO VERIFY REQUIREMENT AND MOUNTING HEIGHTS. INSULATE ALL EXPOSED PIPING, INCLUDING TRAP DRAIN OUTLET AND SUPPLES OF SINK PER FIXTURE SCHEDULE.
 - INTERFERENCE: ALL PLUMBING WORK SHALL BE INSTALLED SO AS TO AVOID STRUCTURAL FRAMING.
 - CLEANOUTS: CLEANOUTS SHALL BE INSTALLED WHERE INDICATED, WHERE ACCESSIBLE AND AS REQUIRED BY CODE. COORDINATE ALL LOCATIONS WITH EQUIPMENT, CABINETS, ETC., AND ARCHITECT PRIOR TO INSTALLATION.
 - VENT TERMINATION: ALL PLUMBING VENTS SHALL EXTEND THROUGH ITS AND SHALL TERMINATE VERTICALLY NOT LESS THAN SIX (6) INCHES ABOVE THE ROOF NOR LESS THAN ONE (1) FOOT FROM ANY VERTICAL SURFACE.
 - FULL SIZE: ALL VALVES, UNIONS, ETC. TO BE SAME SIZE AS LINE SIZE UNLESS OTHERWISE INDICATED ON DRAWINGS.
 - LATERAL SUPPORT: ALL EQUIPMENT SHALL BE LATERALLY SUPPORTED IN ALL DIRECTIONS TO RESIST A MIN. OF 50% OF ITS OPERATING WEIGHT.
 - CODE COMPLIANCE: ALL WORK AND MATERIAL SHALL BE PERFORMED AND INSTALLED IN COMPLIANCE WITH 2010 CPC AND LOS ANGELES CITY AMENDMENTS 2011. NOTHING DIAGRAMMATICALLY INDICATED ON THESE DRAWINGS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES OR OTHERS APPLICABLE TO THIS PROJECT.
 - FIELD VERIFICATION: BEFORE ANY FABRICATION OR INSTALLATION, THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND ALL EQUIPMENT PROVIDED UNDER ANOTHER SECTION OF SPECIFICATIONS. EXACT AND FINAL ROOM-IN LOCATIONS AND REQUIREMENTS SHALL BE COORDINATED IN FIELD.
 - THE SEISMIC GAS SHUT OFF SHALL BE MOUNTED ROOPLY TO THE EXTERIOR OF THE BUILDING OR STRUCTURE CONTAINING THE FUEL GAS PIPING (94.1219.3.2).
 - COORDINATION: THE PLUMBING CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS FOR ALL POINTS OF CONNECTION WITH THE GENERAL CONTRACTOR AND OTHER TRADES.
 - PIPE SLOPE: ALL WASTE AND VENT PIPING SHALL SLOPE AT 2% MINIMUM WHERE STRUCTURAL MEMBERS OR EQUIPMENT DICTATES A SLOPE OF 1% OR LESS, THE ARCHITECT SHALL BE NOTIFIED PRIOR TO INSTALLATION.
 - ACCESSIBILITY: ALL VALVES, OR EQUIPMENT SHOWN IN WALLS OR ABOVE NON-ACCESSIBLE CEILING SHALL BE INSTALLED WITHIN 24" OF, AND BEHIND, AN ACCESS PANEL.
 - SPECIFICATION: THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH, AND BE CONSIDERED TO BE A PART OF, THE SPECIFICATIONS.
 - PATCHING: THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING, PATCHING AND PAINTING ALL AREAS WHICH ARE USED AND/OR DAMAGED BY HIS OPERATIONS.
 - EXISTING PIPING DAMAGED: ALL EXISTING PIPING DAMAGED DURING THIS REMODEL SHALL BE REPAIRED WITH MATERIALS TO MATCH THE EXISTING BY THE CONTRACTOR.
 - SAW CUTTING/CORE DRILLING: ALL CUTTING OF EXISTING FLOORS OR WALLS SHALL BE BY MACHINE SAW CUTTING. ALL HOLES FOR PIPING IN CONCRETE SHALL BE DONE USING CORE DRILLING EQUIPMENT.
 - MATERIAL CONNECTION: CONNECTIONS BETWEEN INCOMPATIBLE MATERIALS ABOVE GRADE AND INSIDE BUILDING SHALL BE MADE THRU THE USE OF TWO (2) DIELECTRIC UNIONS.
 - SUBMITTALS AND SHOP DRAWINGS: THE PLUMBING CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL WORK AND SUBMITTALS ON ALL VALVES, FIXTURES, EQUIPMENT AND ACCESSORIES FOR REVIEW AND APPROVAL PRIOR TO ORDERING, FABRICATION AND INSTALLATION.
 - ALL PLUMBING FIXTURES SHALL MEET THE FLOW RATE REQUIREMENT OF SECTION 94.402.1.1.
 - DOMESTIC WATER SYSTEM: LEAD FREE COMPLIANCE REQUIRED EFFECTIVE JANUARY 1, 2010 PER CALIFORNIA HEALTH AND SAFETY CODE SEC. 116875.
 - ALL CLEANOUT COVERS SHALL BE STAINLESS STEEL.
 - NEW PLUMBING FIXTURES AND FITTINGS SHALL NOT EXCEED THE MAXIMUM ALLOWABLE FLOW RATES SPECIFIED IN SECTION 5.303.2.

PLUMBING SHEET INDEX	
P000	PLUMBING COVER SHEET
P101	FIRST FLOOR PLUMBING PLAN
P102	SECOND FLOOR PLUMBING PLAN
P103	PLUMBING ROOF PLAN
P201	ENLARGED FIRST FLOOR PLUMBING PLAN
P202	ENLARGED SECOND FLOOR PLUMBING PLAN



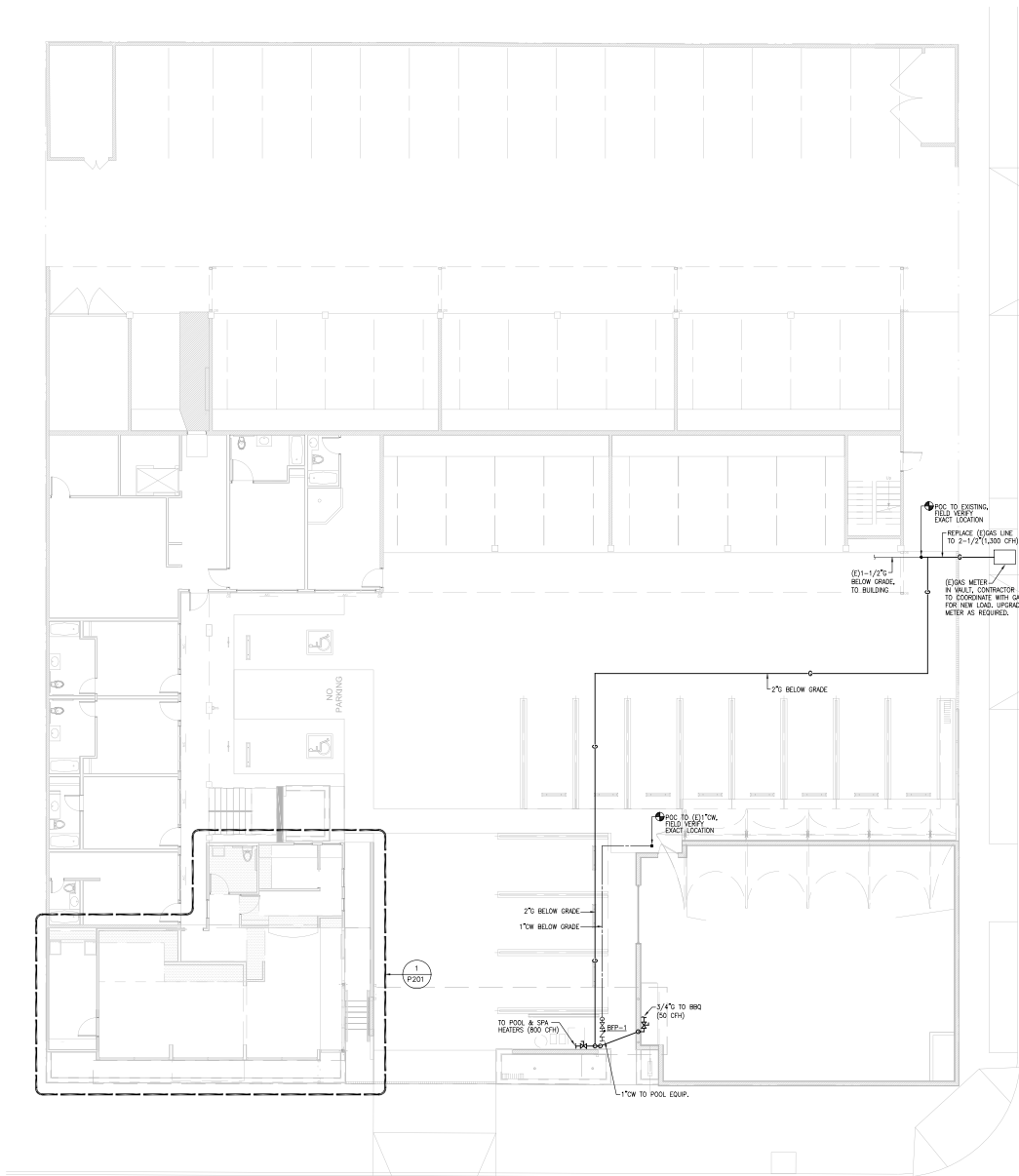
ROSE AND CROWN HOTEL
 1200 E COLORADO BLVD
 PASADENA, CA 91106



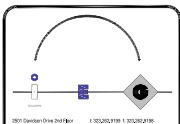
NO.	REVISION/ISSUE	DATE
	REVIEW SET	20160301
	PLAN CHECK SET	20160301
	PLAN CHECK CORRECTIONS	20160301
	PLAN CHECK RESUBMIT	20160301
	PLAN CHECK RESUBMIT	20160301

**PLUMBING
COVER SHEET**

PROJECT	2016-11-08	DRAWING NO.	P000
DATE	AS NOTED	REVISION	



FIRST FLOOR PLUMBING PLAN
SCALE: 1/8" = 1'-0"



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PROJECT NO.
DATE

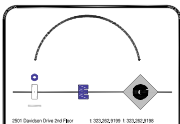
DATE



NO.	REVISION/ISSUE	DATE
	REVIEW SET	2016-03-01
	PLAN CHECK SET	2016-03-01
	PLAN CHECK CORRECTIONS	2016-09-19
	PLAN CHECK RESUBMIT	2016-09-20
	PLAN CHECK RESUBMIT	2016-11-08

SHEET NO.
**FIRST FLOOR
PLUMBING PLAN**

PROJECT	DATE	DRAWN BY	CHECKED BY
	2016-11-08		
SCALE	AS NOTED	P101	



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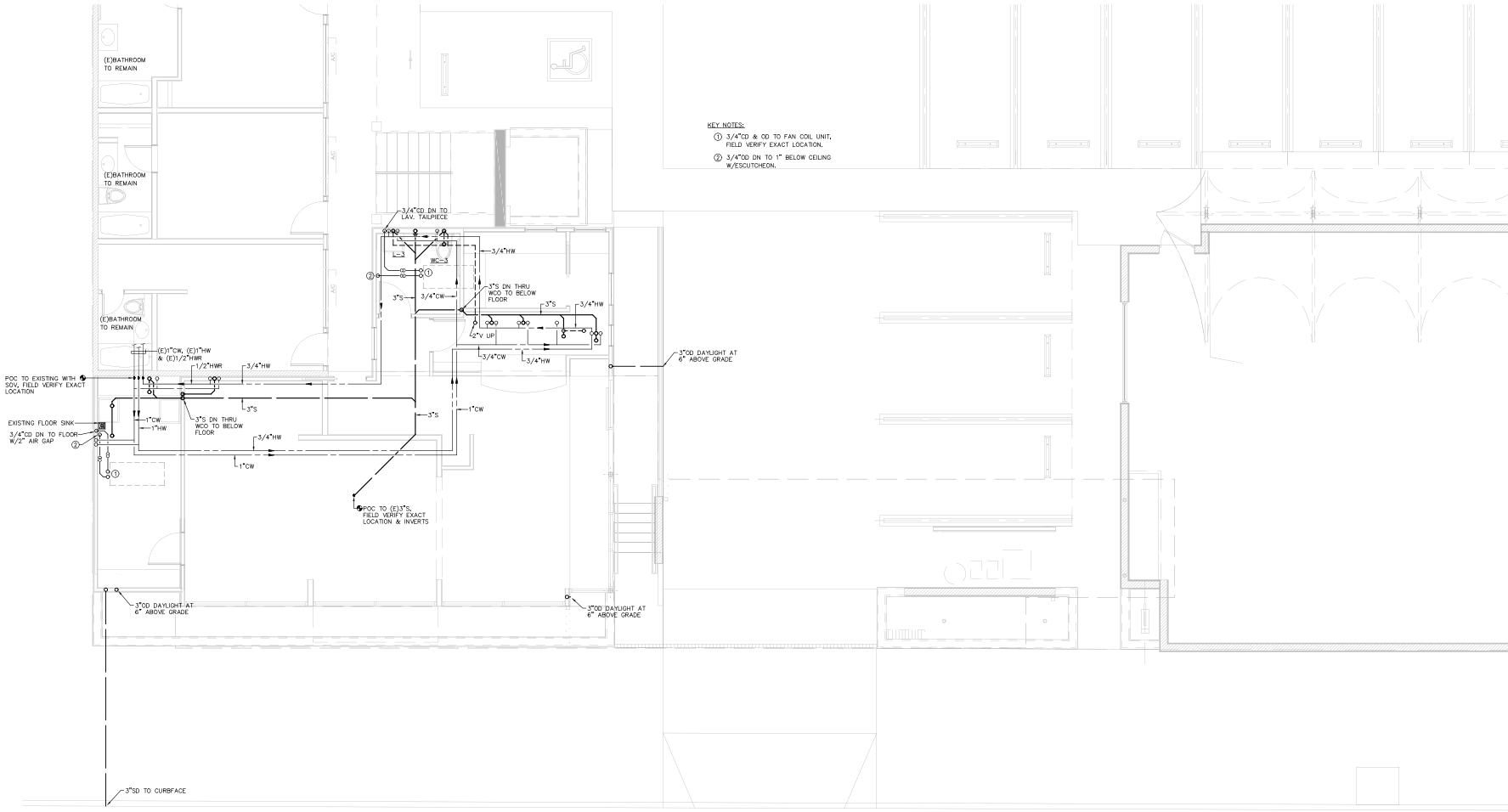


NO.	REVISION/ISSUE	DATE
1	REVIEW SET	2016-03-01
2	REVIEW SET	2016-03-01
3	PLAN CHECK SET	2016-03-01
4	PLAN CHECK CORRECTIONS	2016-09-19
5	PLAN CHECK RESUBMIT	2016-09-20
6	PLAN CHECK RESUBMIT	2016-11-08

ENLARGED
FIRST FLOOR
PLUMBING PLAN

PROJECT	DATE
NO.	2016-11-08
SCALE	AS NOTED
P201	

KEY NOTES:
 ① 3/4" CD & OD TO FAN COIL UNIT, FIELD VERIFY EXACT LOCATION.
 ② 3/4" OD DN TO 1" BELOW CEILING W/ESCUTCHEON.



ENLARGED FIRST FLOOR PLUMBING PLAN
SCALE: 1/4" = 1'-0"

