

- 28. PROVIDE NEW THERMOSTATS WHERE SHOWN ON DRAWINGS.
- 29. THERMOSTAT SHALL BE INSTALLED BETWEEN 36" AND 48" ABOVE FINISHED FLOOR.
- 30. ALL MECHANICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION CONFORMING TO ASCE 7-05 SECTION 13.3.1 AND TABLE 13.6-1.
- 31. CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE NEW OR EXISTING STRUCTURAL ELEMENTS TO BE DONE ONLY WHEN SO DETAILED IN THE DRAWINGS OR ACCEPTED BY THE ARCHITECT.
- 32 CONTRACTOR SHALL HIRE AN INDEPENDENT TESTING AND AIR BALANCING (TAB) COMPANY, AABC CERTIFIED, TO PROVIDE A COMPLETE AND CERTIFIED AIR BALANCE REPORT PER AABC STANDARDS. TAB CONTRACTOR SHALL TEST AND BALANCE ALL HVAC EQUIPMENT AND AIR DISTRIBUTION DEVICES TO DESIGN QUANTITIES AS SHOWN ON PLANS. TAB CONTRACTOR SHALL TEST, BALANCE AND RECORD AS DEFINED IN AABC STANDARDS.
- MECHANICAL EQUIPMENT BRACING AND ANCHORAGE 1. THE SEISMIC BRACING OF DUCTS AND PIPING SHALL BE IN ACCORDANCE WITH THE "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS" AS PUBLISHED BY SMACNA, LATEST EDITION,.
- 2. WHERE BRACING AND ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT AND THE FIELD INSPECTOR.
- 3. A COPY OF THE GUIDELINES PUBLISHED BY SMACNA SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB SITE AT ALL TIMES.

PIPE AND	MATERIALS	
TYPE	MATERIAL	FITTINGS
EXHAUST	16 GAUGE STAINLESS STEEL	WELDED STAINLESS STEEL

SHEET INDEX				
M-1.1	LIBRARY FRONT SHEET			
M-2.1	LIBRARY ENLARGED PARTIAL FLOOR PLANS			



ONE MANCHESTER BOULEVARD INGLEWOOD, CALIFORNIA 90301

PROJECT TITLE **LIBRARY EMERGENCY GENERATOR SCAQMD** COMPLIANCE

CONSULTANT		
	BUDLONG  & ASSOCIA  CONSULTING	ITES, INC

400 W. VENTURA BLVD #240 TEL: (805)987-4001

JOB NO. 14-007.C2

SLENDALE, CA 91203"

TEL: (818)638-8780

STAMPS/SEALS



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SHEET TITLE:		
	LIBRARY	

FRONT SHEET

PROJECT NO.14-007.C2 PROJECT ARCH: D.M. A.S. CHECKED: A.W.

M-1.1

OATE: 08-26-2015

UNLESS OTHERWISE NOTED. PIPING SHALL BE ABOVE

21. ALL SUPPLY & RETURN DUCTWORK SHALL BE INSULTED

22. PROVIDE VOLUME DAMPERS AT EACH BRANCH TAKE-OFF

23. PROVIDE DIFFUSERS AND GRILLES WITH BLOW PATTERNS

PIPE SUPPORT AND BRACING PER SMACNA REQUIREMENT.

FIELD. CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS

25. ANY EQUIPMENT, DUCTWORK, OR PIPING INSTALLED MORE

TO CLEARLY SHOW THE LOCATION OF THE EQUIPMENT

BEFORE COMPLETION OF THE PROJECT. ALL EXPENSE

RELATING TO VERIFY THE AS-BUILT DRAWINGS BY THE

OR INCOMPLETE RECORDS SHALL BE BORN BY THE

26. ALL MECHANICAL WORK SHALL COMPLY WITH TITLE-24

27. NOTE THE CRITICAL SPACE AVAILABLE ABOVE CEILINGS.

BEAMS. OVER/UNDER PIPES AS REQUIRED TO

OR OTHER SPECIAL CHANGE SHAPE PIECES.

ACCOMMODATE DUCTS WITHIN SPACE AVAILABLE

PROVIDE TRANSITION PIECES AT CROSSOVERS, UNDER

PROVIDING EQUIVALENT DUCT SIZE TO THE DIMENSION

SHOWN. COORDINATE CLOSELY WITH OTHER SECTIONS

COSTS WILL BE PAID FOR ANY REQUIRED TRANSITIONS

TO MINIMIZE NECESSITY OF TRANSITIONS. NO ADDITIONAL

CLIENT OR ITS REPRESENTATIVE(S) DUE TO INACCURATE

FROM MAIN SUPPLY, RETURN, AND EXHAUST DUCT

24. CONTRACTOR SHALL FURNISH AND INSTALL DUCT AND

THAN 1 FT FROM THE LOCATION SHOWN ON THE

DRAWINGS SHALL BE CLEARLY DOCUMENTED IN THE

SERVING EACH AIR DEVICE AND AS INDICATED.

20. CONTRACTOR SHALL PROVIDE EXTERNAL TRAPS FOR CONDENSATE DRAIN LINES FOR ALL COOLING COILS.

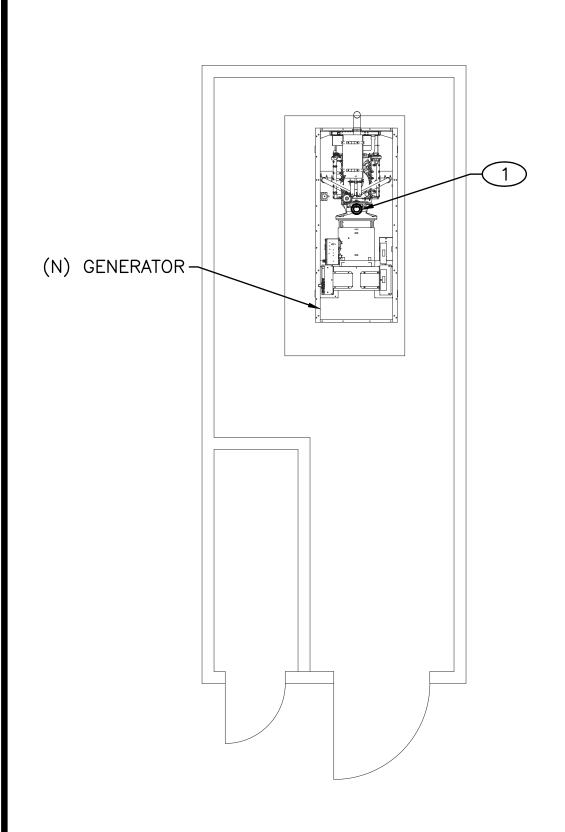
PER TITLE-24 REQUIREMENTS.

INDICATED ON THE DRAWING.

DUCTWORK.

CONTRACTOR.

PART 4 CMC 2013.



Scale: 1/4"=1'-0"

CONSTRUCTION KEY NOTES

NEW 5"Ø EXHAUST PIPE UP THRU ROOF.

EXTEND PIPE 10' MIN ABOVE ROOF.

REUSE EXISTING PENETRATION

(2)

PROVIDE NEW WATER TIGHT ROOF PENETRATION

PER ROOF MANUFACTURER'S REQUIREMENTS.

#### **DEMOLITION NOTES**

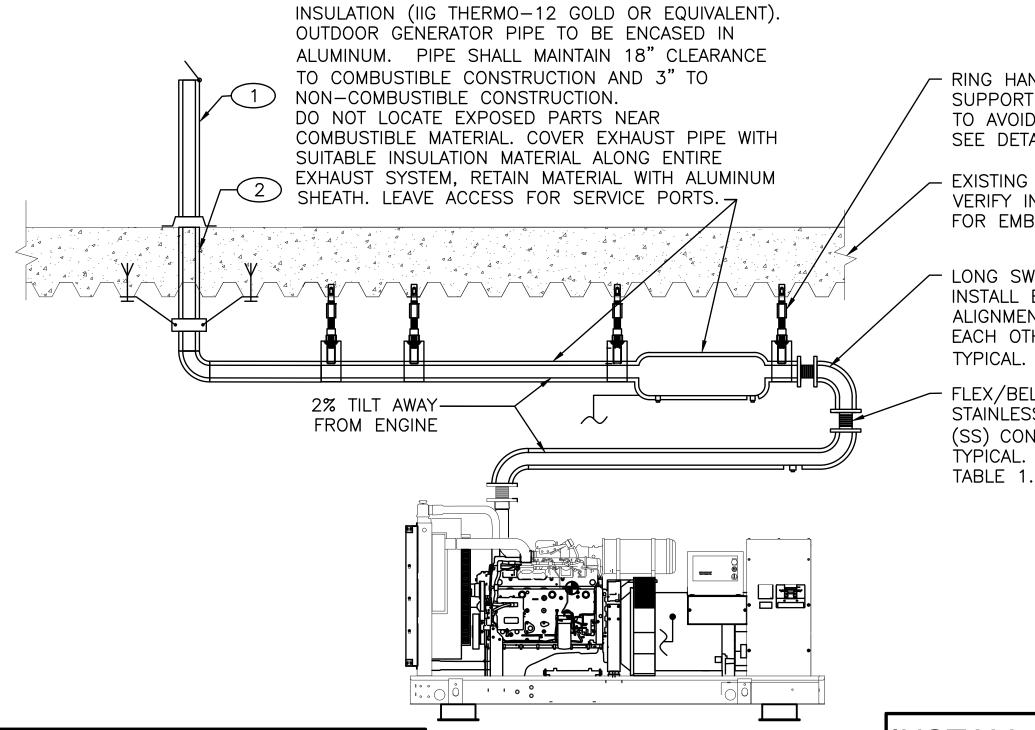
REMOVE EXISTING EXHAUST UP THRU ROOF. REPAIR ROOF TO BE WATER TIGHT PER ROOF MANUFACTURER'S RECOMMENDATIONS

#### **GENERAL NOTES**

- REPAIR WALL SURFACE AFTER INSTALLATION AND INSPECTION OF EQUIPMENT, FIXTURES, CONDUIT AND PIPING, ETC. FINISH TO MATCH EXISTING SURROUNDINGS.
- THERE SHALL BE NO SERVICE INTERRUPTION.
- ALL PENETRATIONS SHALL BE WATER TIGHT.



CONSTRUCTION FLOOR PLAN Scale: 1/4"=1'-0" PROVIDE 2" CALCIUM SILICATE HEAT WRAP



RING HANGER: TOLCO FIG. 200. SUPPORT AT UNEQUAL SPACING TO AVOID RESONANT PIPE VIBRATION. SEE DETAIL 4 ON THIS SHEET.

EXISTING ROOF VERIFY IN FIELD FOR EMBED.

- LONG SWEEP ELBOW. INSTALL ELBOWS IN ALIGNMENT WITH EACH OTHER. TYPICAL. (ELBOW RADIUS 1.5X DIAMETER)

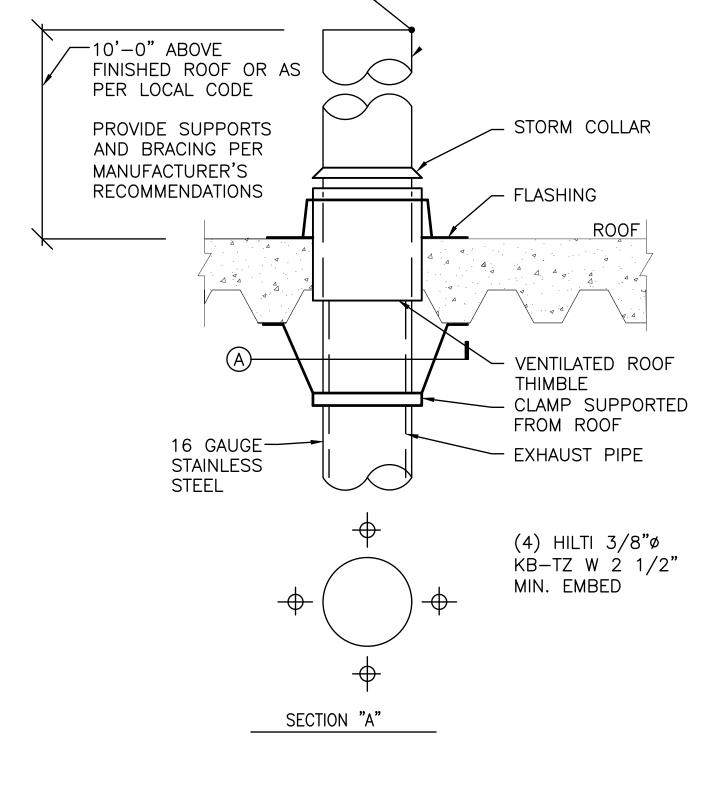
FLEX/BELLOW STAINLESS STEEL (SS) CONNECTION, TYPICAL. SEE

TURBOCHARGER.

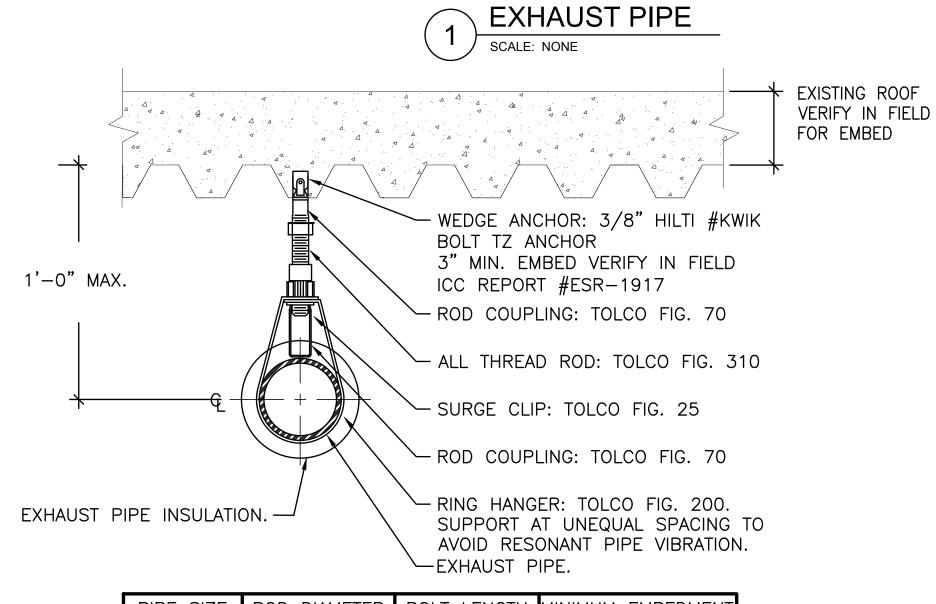
#### INSTALLATION LIMITS OF BELLOWS (TABLE 1)

FLEX/BELLOW DIAMETER	MAX OFFSET BETWEEN FLANGES	MIN ACCEPTABLE CONVOLUTION GAP	MAX EXTENSION FROM FREE LENGTH	
5" SS	0.04"	0.089"	0.08"	
DO NOT ALLOW GAPS IN CONVOLUTIONS TO BE LESS THAN VALUE INDICATED IN PART. LOCATE ONE BELLOW AS CLOSE AS POSSIBLE TO				

GENERATOR EXHAUST INSTALLATION DIAGRAM SCALE: NONE



- RAIN CAP



	_	_	
PIPE SIZE	ROD DIAMETER	BOLT LENGTH	MINIMUM EMBEDMENT
1" - 4"	3/8"	3-3/4"	2-1/4"
5" - 8"	1/2"	3-3/4"	2-1/4"

- 1. SEISMIC BRACING IS NOT REQUIRED. DISTANCE OF PIPES TO SUPPORTING STRUCTURE IS LESS THAN 12".
- 2. LOCATE (E) REINFORCEMENT BEFORE DRILLING HOLES. DO NOT CUT OR NICK (E) REINFORCEMENT





#### CITY OF INGLEWOOD **CIVIC CENTER** COMPLEX

ONE MANCHESTER BOULEVARD INGLEWOOD, CALIFORNIA 90301



CONSULTANT BUDLONG WWW.BUDLONG.COM & ASSOCIATES, INC CONSULTING ENGINEERS GLENDALE OFFICE

315 ARDEN AVENUE #23 GLENDALE, CA 91203 TEL: (818)638–8780 TEL: (805)987-4001 JOB NO. 14-007.C2

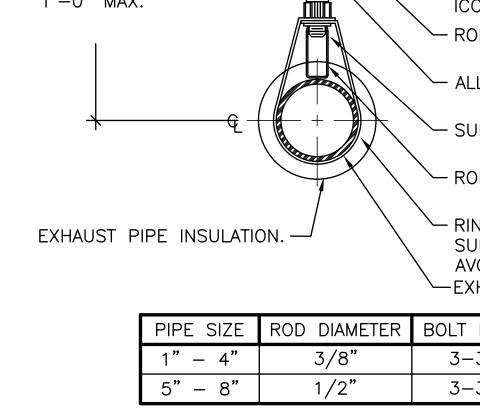
400 W. VENTURA BLVD #240

STAMPS/SEALS

LIBRARY **ENLARGED** PARTIAL FLOOR PLANS

PROJECT NO.14-007.C2 PROJECT ARCH: D.M.. A.S. CHECKED: A.W.

OATE: 08-26-2015



- 1. ALL WORK SHALL BE INSTALLED IN STRICT ACCORDANCE WITH 2013 CALIFORNIA PLUMBING CODE AND BE IN COMPLIANCE WITH MANUFACTURERS RECOMMENDATIONS.
- 2. THE CONTRACTOR IS REQUIRED BY THE CONTRACT DOCUMENTS TO BE FULLY FAMILIAR WITH ALL ASPECTS OF THE PROJECT THAT AFFECT THE INSTALLATION OF THE WORK, AND SUCH IS RESPONSIBLE FOR COORDINATING THAT WORK WITH THE WORK OF OTHERS AT THE SITE.
- 3. KEEP ALL PIPING CLEAR FROM LOAD BEARING FOOTINGS.
- 4. PROVIDE NECESSARY PROVISIONS FOR PIPE MOVEMENT WHERE PIPING EXPANSION JOINTS OCCUR.
- 5. CLEANOUTS SHALL BE INSTALLED PER LATEST CPC CODE.
- 6. THE CONTRACTOR WHEN NECESSARY MAY REQUEST INFORMATION CONCERNING THE DESIGN PROVIDED SUCH REQUEST IS DELIVERED IN A TIMELY FASHION THROUGH PROPER CHANNELS.
- 7. COORDINATE LOCATION AND SIZE OF ACCESS PANELS SO THEY WILL PROVIDE USEFUL ACCESS TO SERVICE SYSTEM COMPONENTS.
- 8. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURERS RECOMMENDATIONS. PROVIDE ALL COMPONENTS REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
- 9. PROVIDE FLASHING AND/OR COUNTER FLASHING OF ALL EXTERIOR PENETRATIONS.
- 10. PIPES PASSING THRU FIRE RATED WALLS OR FLOORS SHALL BE SEALED ALL AROUND WITH FIRE RATED SEALANT.

		$\cdot$ $\bigcirc$ $\top$ $\wedge$ $\wedge$ $\wedge$ $\wedge$	<b>DARDS</b>
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<i>,</i> ,, , , , , , , , , , , , , , , , , ,			D/V

CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING PARTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR):

2013 CALIFORNIA BUILDING CODE (CBC), TITLE 24 C.C.R (2012 INTERNATIONAL BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL WITH 2013 CALIFORNIA AMENDMENTS).

2013 CALIFORNIA ELECTRICAL CODE (CEC), TITLE 24 C.C.R. (2012 NATIONAL ELECTRIC CODE OF THE NATIONAL FIRE PROTECTION ASSOCIATION, NFPA) 2013 CALIFORNIA MECHANICAL CODE (CMC), TITLE 24 C.C.R. (2012 UNIFORM MECHANICAL CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS IAPMO).

2013 CALIFORNIA PLUMBING CODE (CPC), TITLE 24 C.C.R. (2012 UNIFORM MECHANICAL CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS IAPMO).

2013 CALIFORNIA FIRE CODE (CFC), TITLE 24 (2012 INTERNATIONAL FIRE CODE OF THE INTERNATIONAL CODE COUNCIL).

#### PARTIAL LIST OF APPLICABLE STANDARDS:

2013 CALIFORNIA BUILDING CODE (FOR SFM) REFERENCED STANDARDS CHAPTER

NFPA 30, FLAMMABLE AND COMBUSTIBLE LIQUIDS CODE
NFPA 37, STANDARD FOR THE INSTALLATION AND USE OF
STATIONARY COMBUSTION ENGINEERS AND GAS
TURBINES

2013 EDITION
2013 EDITION

NFPA 54, NATIONAL GAS CODE 2013 EDITION NFPA 58, STANDARD FOR THE STORAGE AND HANDLING 2013 EDITION

OF LIQUEFIED PETROLEUM GASES

ANSI/UL 144, PRESSURE REGULATING VALVES FOR LP GAS

AMERICAN GAS ASSOCIATION (AGA) CODES AND STANDARDS

LOCAL UTILITY COMPANY RULES AND REGULATIONS

CURRENT EDITION

	EQUIPMENT SCHEDULE				
EQUIPMENT NUMBER	EQUIPMENT	REMARKS			
PST-1	PROPANE STORAGE TANK	50 GALLON LIQUID PROPANE STORAGE TANK WITH 90 MINUTE RUN TIME. WORTHINGTON (PART NUMBER 294590) 200# ASME WITH SERVICE VALVE, RELIEF VALVE, FILL VALVE, GAUGE, ETC.			
NGPR-1	NATURAL GAS PRESSURE REGULATOR	FISHER MODEL #CS400 1-1/2" NATURAL GAS PRESSURE REGULATOR. ORIFICE 1/2 INCH, SPRING RANGE 7.5 TO 11 INCH W.C.			
PGPR-1	PROPANE GAS PRESSURE REGULATOR	FISHER MODEL #299H 1-1/2" PROPANE GAS PRESSURE REGULATOR. PILOT SPRING RANGE 7 TO 20 INCH W.C., SPRING NUMBER 1N3112 AND SPRING COLOR SILVER.			
LPV-1	LIQUID PROPANE VAPORIZER	PENGUIN LIQUID VAPORIZER CABINET MODEL #PE3-1-24-2			

	LEGEND			
SYMBOL	ABBR.	DESCRIPTION		
	٧	VENT PIPING ABOVE GRADE		
—— LP ——	LP	LIQUEFIED PROPANE VAPOR GAS PIPING ABOVE GRADE		
—— G——	G	NATURAL GAS PIPING ABOVE GRADE		
D	D	DRAIN PIPING ABOVE GRADE		
EV	EV	EXISTING VENT PIPING ABOVE GRADE		
—— ED ——	ED	EXISTING DRAIN PIPING ABOVE GRADE		
EMPG	EMPG	EXISTING MEDIUM PRESSURE GAS PIPING BELOW/ABOVE GRADE		
MPG	MPG	MEDIUM PRESSURE GAS PIPING BELOW/ABOVE GRADE		
<del></del>	_	DROP IN PIPE		
O	_	RISE IN PIPE		
<del></del>	_	DIRECTION OF FLOW		
——————————————————————————————————————	U	UNION		
4	BV	BALL VALVE		
<u> </u>	CV	CHECK VALVE		
•	POC	POINT OF CONNECTION		
₹	_	SHUT-OFF COCK		
	_	FLEXIBLE CONNECT		
	AP	ACCESS PANEL		
	CFH	CUBIC FOOT PER HOUR		
	GPM	GALLONS PER MINUTE		
	I.E.	INVERT ELEVATION		
	TDL	TOTAL DEVELOPED LENGTH		
	VTR	VENT THROUGH ROOF		
	NG	NATURAL GAS		

PIPE AND FITTING MATERIALS						
TYPE MATERIAL		FITTINGS	LOCATION			
GAS AND LP	SCHEDULE 40 BLACK STEEL	THREADED FITTINGS ANSI B16.3, BLACK MALLEABLE IRON150 LBS. OR ANSI B16.11 FORGED STEEL	ABOVE GRADE			

SHEET INDEX				
P-1.1	PLUMBING FRONT SHEET			
P-2.1	PLUMBING PARKING LEVEL FLOOR PLAN			
P-2.2	PLUMBING PENTHOUSE FLOOR PLAN			
P-3.1	PLUMBING ENLARGED FLOOR PLANS			
P-4.1	PLUMBING DETAILS			
P-4.2	PLUMBING DETAILS			



### CITY OF INGLEWOOD CIVIC CENTER COMPLEX

ONE MANCHESTER BOULEVARD INGLEWOOD, CALIFORNIA 90301

ROJECT TITLE

LIBRARY
EMERGENCY
GENERATOR
SCAQMD
COMPLIANCE

CONSULTANT



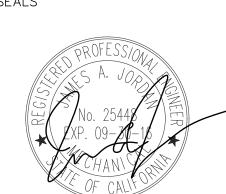
400 W. VENTURA BLVD #240 CAMARILLO, CA 93010 TEL: (805)987-4001

315 ARDEN AVENUE #23 GLENDALE, CA 91203 TEL: (818)638–8780

GLENDALE OFFICE

JOB NO. 14-007.C2

STAMPS/SEALS



7		
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ET TITLE:		

PLUMBING FRONT SHEET

PROJECT NO.14-007.C2 PROJECT ARCH: D.M.

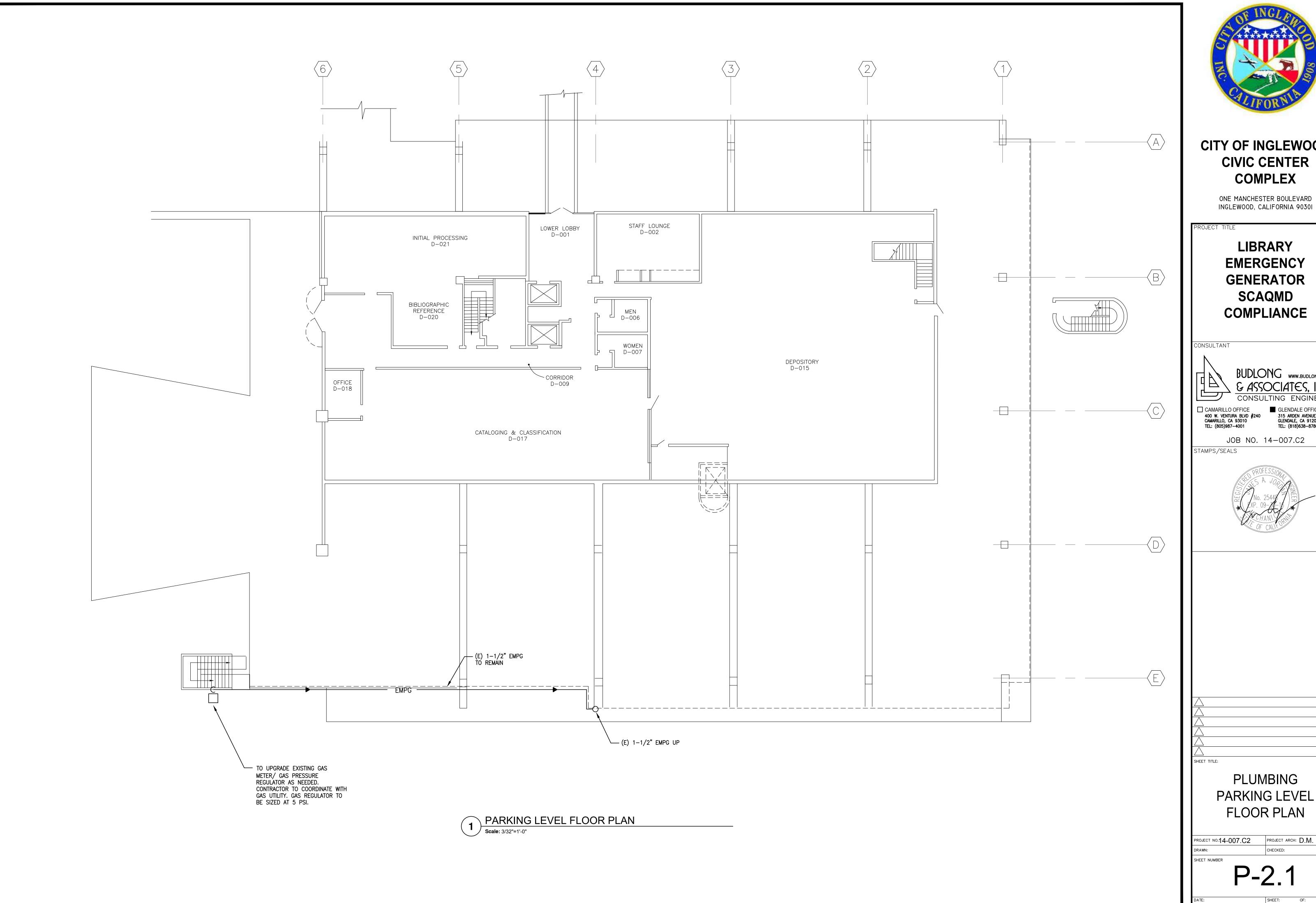
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SHEET NUMBER

P-1.1

SHEET:

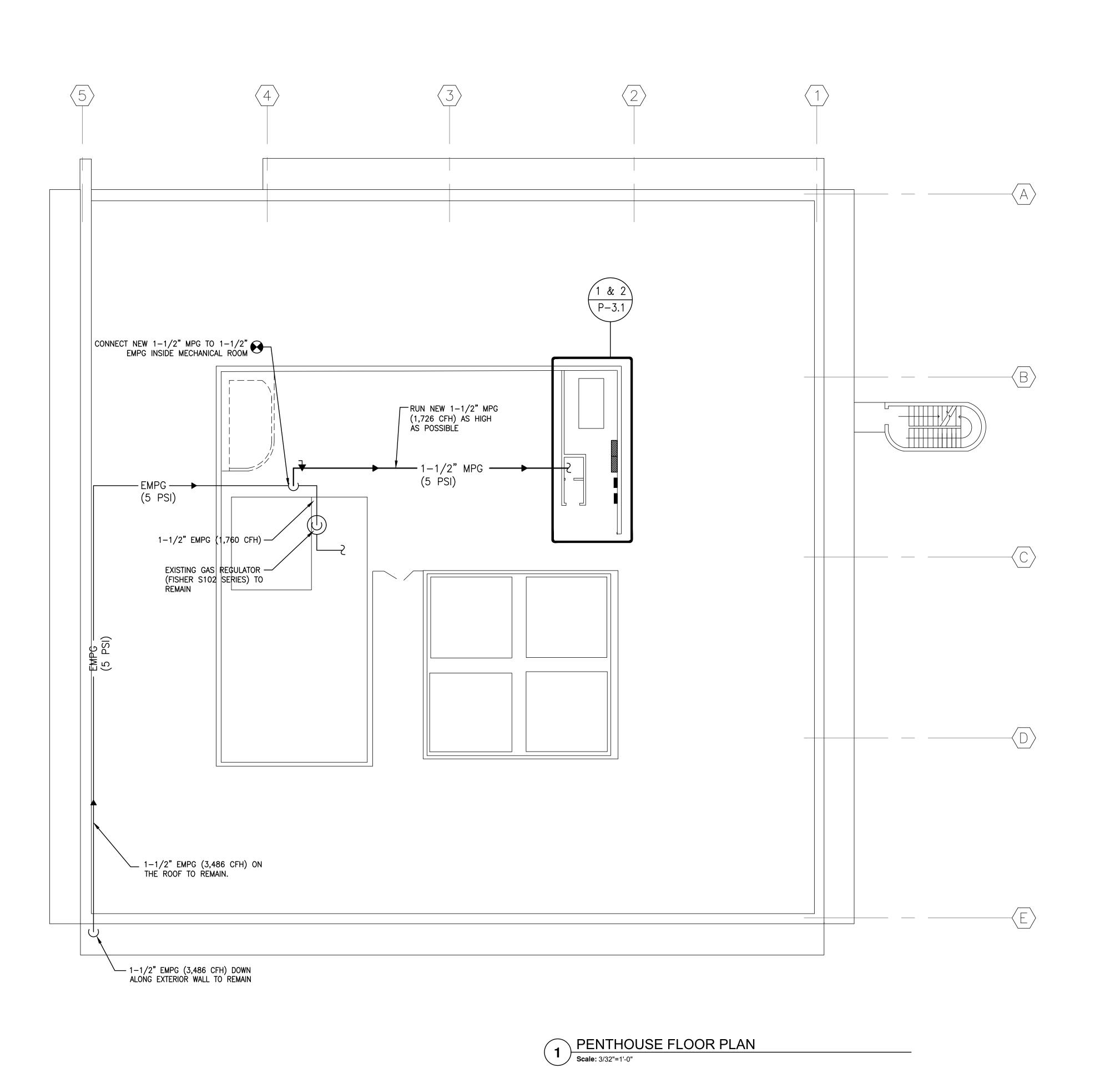
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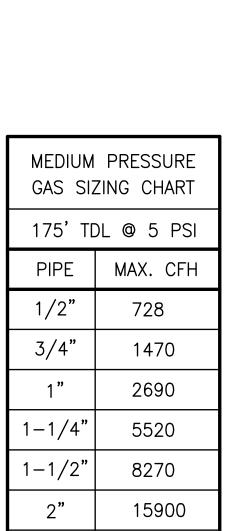




#### CITY OF INGLEWOOD **CIVIC CENTER**

**LIBRARY EMERGENCY GENERATOR SCAQMD** COMPLIANCE BUDLONG WWW.BUDLONG.COM CONSULTING ENGINEERS GLENDALE OFFICE
315 ARDEN AVENUE #23
GLENDALE, CA 91203
TEL: (818)638-8780 JOB NO. 14-007.C2 **PLUMBING** PARKING LEVEL FLOOR PLAN PROJECT NO.14-007.C2 PROJECT ARCH: D.M.







ONE MANCHESTER BOULEVARD INGLEWOOD, CALIFORNIA 90301

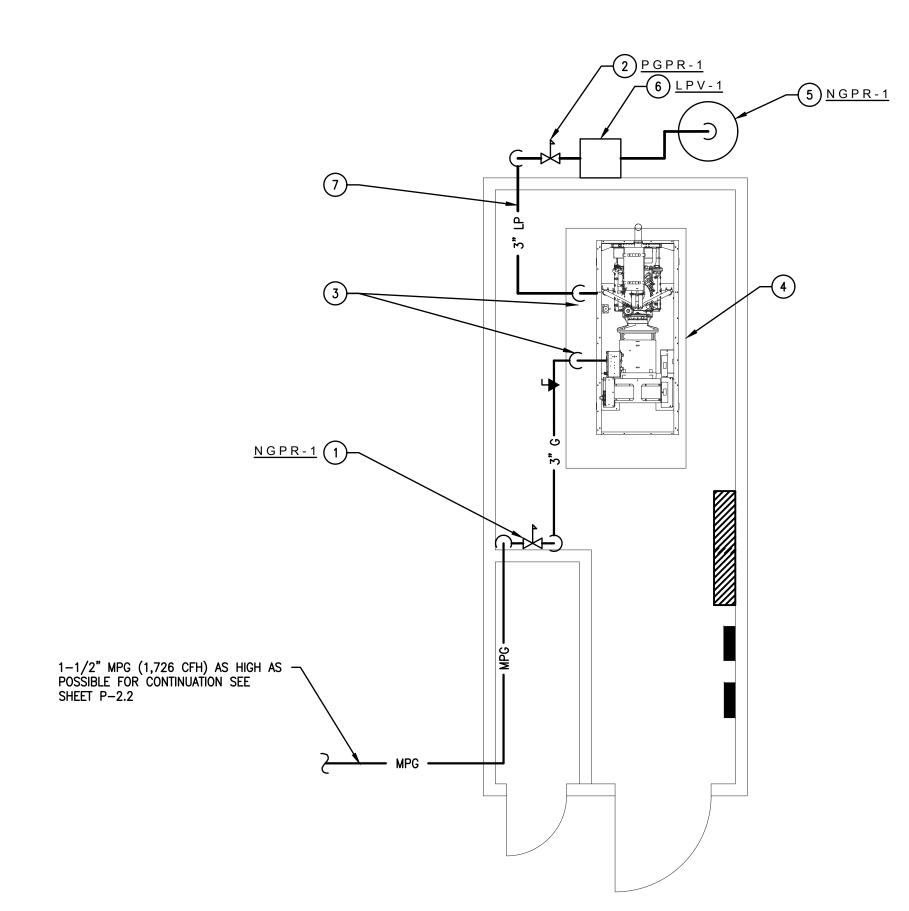
LIBRARY EMERGENCY GENERATOR SCAQMD COMPLIANCE		
BUDLONG www.budlong.com  SASSOCIATES, INC.  CONSULTING ENGINEERS  CAMARILLO OFFICE 400 W. VENTURA BLVD #240 CAMARILLO, CA 93010 TEL: (805)987-4001  JOB NO. 14-007.C2		
STAMPS/SEALS  PROFESSION No. 25448  EXP. 09-30-10  OF CALLO		
PLUMBING PENTHOUSE		

FLOOR PLAN

PROJECT NO.14-007.C2 PROJECT ARCH: D.M.

P-2.2

SHEET:



LOW PRESSURE  NATURAL GAS  SIZING CHART			
20' TDL @ 11" W.C.			
PIPE	MAX. CFH		
1/2"	118		
3/4"	247		
1"	466		
1-1/4"	927		
1-1/2"	1430		
2"	2760		

#### NOTES

 SEE DETAIL #1/P-1.1 FOR LIQUID PROPANE STORAGE TANK AND PIPING COMPONENTS.

# NOTES 1. SEAL ALL UNUSED EXISTING WALL/FLOOR PENETRATIONS TO MATCH EXISTING STRUCTURE.

#### CONSTRUCTION NOTES

- SET <u>NGPR-1</u> AT 11" W.C. DELIVERY PRESSURE. RUN FULL SIZE RELIEF VENT FROM <u>GPR-1</u> THROUGH ROOF AND TERMINATE WITH DOWN TURN ELBOW AND INSECT SCREEN.
- 2 PGPR-1, PROPANE GAS REGULATOR. SET AT 11" W.C. PRESSURE DELIVERY.
- 3 PROVIDE SHUT-OFF VALVE, DIRT LEG AND CONNECT TO GENERATOR WITH FACTORY PROVIDED FLEXIBLE CONNECTOR.
- dual fuel operated emergency generator. See electrical drawings for details.
- 5 PST-1 50 GALLON PROPANE STORAGE TANK.
- 6 <u>LPV-1</u> LIQUID PROPANE VAPORIZER.
- 7 3" PROPANE GAS HEADER. PROVIDE MINIMUM 15'-0" HORIZONTAL LENGTH HEADER.

#### **DEMOLITION NOTES**

- REMOVE EXISTING 150 KW GENERATOR ASSEMBLY WITH ALL RELATED ACCESSORIES. DISCONNECT, IDENTIFY AND PROTECT EXISTING BATTERY CHARGER, HEAT BLOCK AND STARTER CIRCUITS AND CONDUITS FOR RECONNECTION TO NEW GENERATOR ASSEMBLY. REMOVE EXISTING FEEDING CONDUCTORS REMOVE EXISTING FLUE UP THRU ROOF. REPAIR ROOF TO BE WATER TIGHT PER ROOF MANUFACTURER'S RECOMMENDATIONS
- B EXISTING CONCRETE PAD TO REMAIN
- C REMOVE ALL EXISTING 1/2" FUEL SUPPLY AND RETURN PIPING
- D REMOVE EXISTING 200 GALLON DIESEL STORAGE TANK ASSEMBLY AND ALL RELATED ACCESSORIES.

NOTE: SEAL ALL UNUSED EXISTING WALL/FLOOR PENETRATIONS TO MATCH EXISTING STRUCTURE.

2 CONSTRUCTION FLOOR PLAN (PENTHOUSE)
Scale: 1/4"=1'-0"

1 DEMOLITION FLOOR PLAN (PENTHOUSE)
Scale: 1/4"=1'-0"



# CITY OF INGLEWOOD CIVIC CENTER COMPLEX

ONE MANCHESTER BOULEVARD INGLEWOOD, CALIFORNIA 90301

JECT TITLE

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GLENDALE, CA 91203
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JOB NO. 14-007.C2

STAMPS/SEALS



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SHEET TITLE:

PLUMBING ENLARGED FLOOR PLANS

PROJECT NO.14-007.C2 PROJECT ARCH: D.M.

DRAWN: CHECKED:

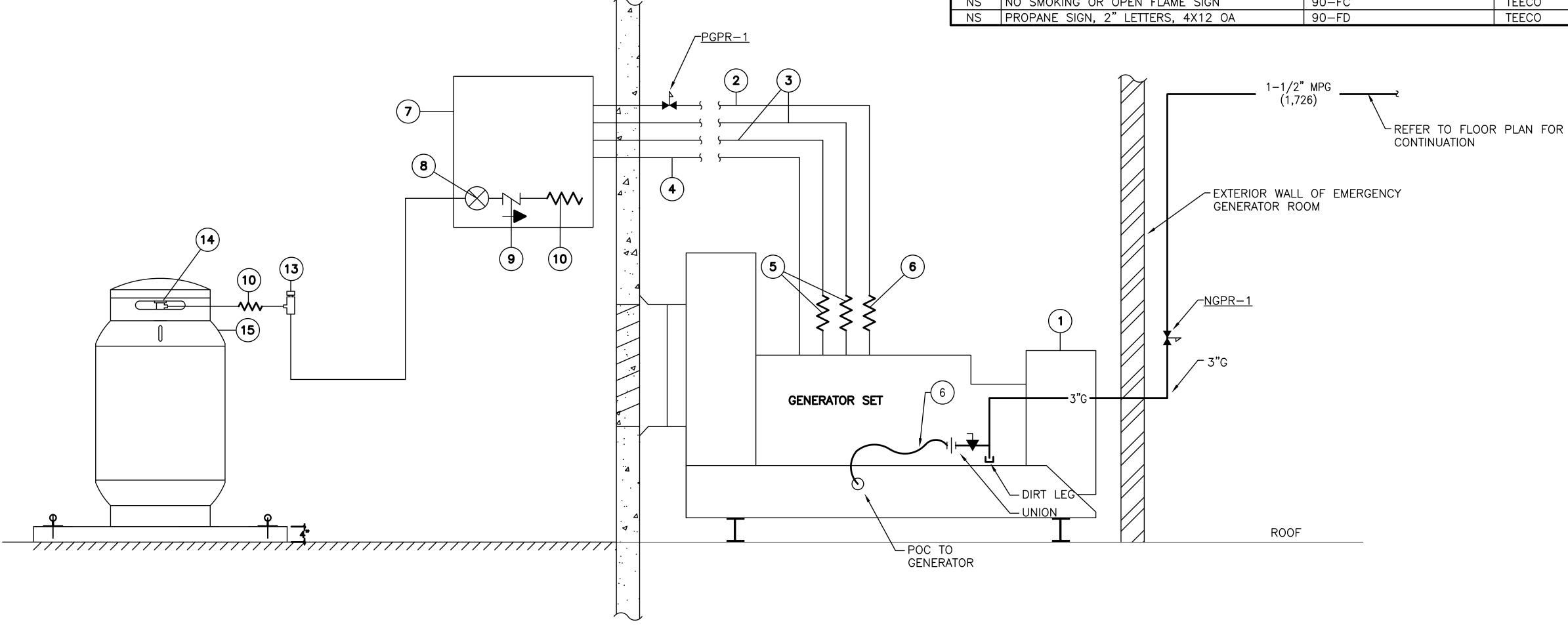
P-3.1

SHEET:

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- 1. ALL PLUMBING VENTS AND/OR INTAKES WITHIN 25' RADIUS SHALL BE AT LEAST 4'-0" HIGHER THAN THE TOP OF THE TANK.
- INSTALLATION TO CONFORM TO STATE OF CALIFORNIA DIVISION OF OCCUPATIONAL SAFETY AND HEALTH TITLE 8, UNFIRED PRESSURE VESSELS SAFETY ORDERS AND NFPA 37 AND 58.

MATERIALS LIST			
ITEM	DESCRIPTION	PART NUMBER	MANUFACTURER
1	GENERATOR	MODEL SG 150	GENERAC
2	LP VAPOR FUEL PIPE, BLACK IRON	2" SCH 40	_
3	LP VAPORIZER WATER PIPING	_	_
4	FUEL SOLENOID WIRING	1/2" EMT W/ 2-#14 THHN	_
	WATER FLEX CONNECTORS (2)	_	_
5	FLEX CLAMP (8)	_	_
	FLEX ADAPTER	_	_
6	FUEL FLEX CONNECTOR, 2X18 LPG	_	GENERAC
7	LPG VAPORIZER CABINET	PE3-1-24-2	PENGUIN
8	LPG SHUTOFF W/ HYDROSTATIC RELIEF	7705P W/ 3127H	REGO
9	EXCESS FLOW VALVE	12472	REGO
	FLEX CONNECTOR	FC321-06	AEROQUIP
10	FLEX FITTING	190299-6S	AEROQUIP
	FLEX FITTING	4401-6S	AEROQUIP
11	FUEL PIPING, 3/4" BELOW GROUND	ASTM A-53 GRADE B	_
12	NOT IN USE	_	_
13	HYDROSTATIC RELIEF VALVE	3127J	REGO
14	TANK VALVE W/ HYDROSTATIC RELIEF	9101P6H W/ 3127J	REGO
15	LPG TANK	_	_
NS	UN CODE 10-1/2×10-1/2 DIAMOND SIGN	90-FZ-1	TEECO
NS	NO SMOKING OR OPEN FLAME SIGN	90-FC	TEECO
NS	PROPANE SIGN, 2" LETTERS, 4X12 OA	90-FD	TEECO



NOTE:
RISER DIAGRAM AMY NOT SHOW ALL OFFSETS
NECESSARY FOR A FULL FUNCTIONING SYSTEM



SCOTTIFORNIA SE

# CITY OF INGLEWOOD CIVIC CENTER COMPLEX

ONE MANCHESTER BOULEVARD INGLEWOOD, CALIFORNIA 90301

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	255125			

☐ CAMARILLO OFFICE

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JOB NO. 14-007.C2

STAMPS/SEALS



SHEET TITLE:

PLUMBING DETAILS

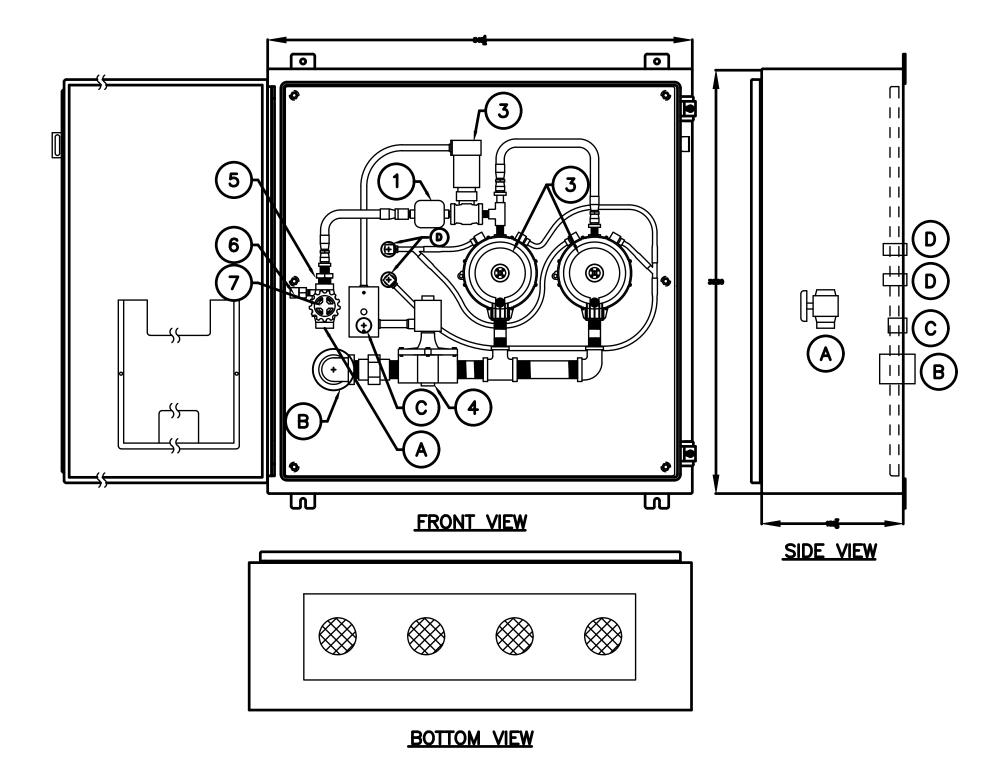
PROJECT NO.14-007.C2 PROJECT ARCH: D.M.

DRAWN: CHECKED:

P-4.1

SHEET:

MATERIALS LIST				
ITEM	PART NUMBER	QTY	DESCRIPTION	MANUFACTURER
1	408A2F2M	1	LP GAS FILTER	TEECO
2	B-4000	1	LIQUID SOLENOID VALVE, 1/4", 24VDC	ATKOMATIC
3	PE	2	VAPORIZER	IMPCO
4	8215B70	1	VAPOR SOLENOID VALVE, 1 1/2", 24VDC	ASCO
5	12472	1	EXCESS FLOW VALVE	RECO
6	3127H	1	RELIEF VALVE	REGO
7	7705P	1	VALVE	REGO



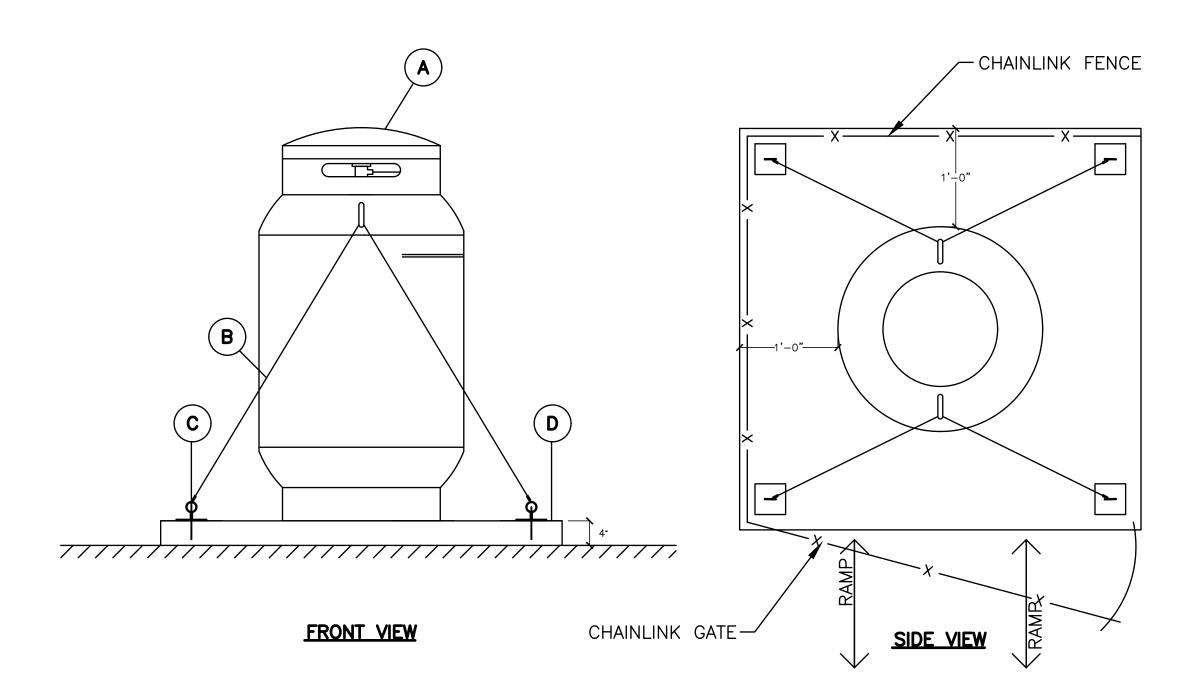
- 1. VERIFY PIPING LOCATIONS IN FIELD
- 2. LOCATE TOP OF VAPORIZER 3" OR 6" BELOW TOP OF RADIATOR (COORDINATE WITH GENERATOR MFR.)
- 3. LPG SHUTOFF VALVE SHIPPED UNMOUNTED FOR INSTALLATION ON LPG SUPPLY LINE

#### CONNECTION LEGEND

- (A) LPG INLET, 3/4" FNPT
- (B) LPG VAPOR OUTLET, 2" FNPT
- © 24 VDC CONTROL, 1/2" GRS COUPLING
- D. JACKET WATER, 3/8" FNPT

2 LIQUID PROPANE VAPORIZER DETAIL

Scale: 1/4"=1'-0"



#### GENERAL NOTES

- 1. ALL PLUMBING VENTS AND/OR INTAKES WITHIN 25' RADIUS SHALL BE AT LEAST 4'-0" HIGHER THAN THE TOP OF THE TANK.
- 2. INSTALLATION TO CONFORM TO STATE OF CALIFORNIA DIVISION OF OCCUPATIONAL SAFETY AND HEALTH TITLE 8, UNFIRED PRESSURE VESSELS SAFETY ORDERS AND NFPA 37 AND 58.

#### LEGEND

- 50 GALLON LIQUID PROPANE TANK
- 1/4" COATED STEEL CABLE
- EYEBOLTS W/ICBO DROP IN ANCHORS
- 4" CONCRETE PAD

PROPANE TANK LAYOUT & SEISMIC BRACING DETAIL Scale: 1/4"=1'-0"



#### CITY OF INGLEWOOD **CIVIC CENTER** COMPLEX

ONE MANCHESTER BOULEVARD INGLEWOOD, CALIFORNIA 90301

PROJECT TITLE

**LIBRARY EMERGENCY GENERATOR** SCAQMD COMPLIANCE

CONSULTANT



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JOB NO. 14-007.C2

STAMPS/SEALS



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EET TITLE:	

PROJECT NO.14-007.C2 PROJECT ARCH: D.M.

P-4.2



**PLUMBING DETAILS** 

- 1. CONSULT WITH THE OWNER AND ARCHITECT BEFORE STARTING WORK.
- 2. NO CONDUITS ARE TO BE INSTALLED ON ARCADES OR ROOF U.O.N. ALL EXPOSED CONDUITS, SUPPORTS AND JUNCTION BOXES SHALL BE PAINTED TO MATCH THE PREDOMINANT COLOR OF THE BUILDING, AS APPROVED BY ARCHITECT AND ENGINEER OF RECORD.
- 3. COORDINATE THE ELECTRICAL WORK WITH THE WORK OF OTHER TRADES.
- THE CONTRACTOR SHALL USE SUFFICIENT BARRICADES AND TEMPORARY PROTECTION DEVICES TO PREVENT PEDESTRIANS OR NON-AUTHORIZED PERSONNEL ACCESS TO ANY OPEN TRENCHES OR CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL ERECT A SAFETY BARRICADE AT ALL OPEN TRENCHES, DITCHES, PITS, SUMPS, ETC FOR THE PROTECTION AND SAFETY OF THE PUBLIC. ALL TRENCHES OUTSIDE OF THE BARRICADE LIMITS SHALL BE BACKFILLED AND PAVED NOT LATER THAN 72 HOURS AFTER BEING OPENED. DURING THE TIME THE TRENCHES ARE OPEN IN TRAFFIC AREAS, THE CONTRACTOR SHALL PROVIDE TRAFFIC PLATES. SAFETY BARRICADES SHALL BE PANELIZED CHAIN LINK FENCE. EACH FENCE PANEL SHALL BE 6FT TALL X 10FT WIDE WITH STAND AND TIED TOGETHER END TO END WITH A MINIMUM 8-GAUGE WIRE. NO TRENCHES SHALL BE LOCATED OUTSIDE BARRICADES.
- WHERE STRUCTURAL WALLS ARE CORED FOR NEW CONDUIT RUNS. SEPARATION BETWEEN CORED HOLES SHALL BE THREE INCHES FROM NEW HOLES, UNLESS DIRECTED OTHERWISE BY THE ARCHITECT AND APPROVED BY OSHPD FIELD ENGINEER. ALL SAW CUTS OF EXISTING STRUCTURAL MEMBERS SHALL BE APPROVED BY ARCHITECT AND OSHPD FIELD ENGINEER.
- THE REPRESENTATION OF PHYSICAL PLACEMENT OF EXISTING UNDERGROUND CONDUITS HAS BEEN DEVELOPED FROM THE BEST INFORMATION AVAILABLE TO THE OWNER AT THE TIME THE DRAWINGS WERE PREPARED. THE ENGINEER PROVIDES THIS ONLY AS A GENERAL GUIDELINE FOR THE CONVENIENCE OF BIDDERS/CONTRACTORS AND DOES NOT PROVIDE A GUARANTEE OR WARRANTY IN ANY WAY EXPRESS OR IMPLIED, AS TO THE ACCURACY OF THESE REPRESENTATIONS. NOTHING IN THIS DISCLAIMER AFFECTS IN ANY WAY THE DUTY OF THE CONTRACTOR TO PROTECT THE EXISTING INSTALLATION AND TO FURNISH ACCURATE "AS BUILT" DRAWINGS AFTER THE COMPLETION OF THE CONTRACT.
- 7. ALL FEEDERS AND BRANCH CIRCUITS SHALL CARRY A GROUND WIRE, SIZED AS PER N.E.C. ARTICLE 250 AND BONDED TO THE METALLIC COMPONENTS OF THE RACEWAY SYSTEM.
- 8. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND EQUIPMENT AND MATERIAL APPROVED FOR USE UNDER THIS CONTRACT.
- 9. PRIOR TO PULLING ANY CONDUCTORS, CLEAN AND MANDREL ALL CONDUITS.
- 10.CONTRACTOR SHALL INSTALL EQUIPMENT PER ADA (AMERICAN DISABILITIES ACT) REQUIREMENTS.
- 11.EXTERIOR EQUIPMENT, JUNCTION BOXES, ENCLOSURES AND CONNECTIONS SHALL BE WEATHERPROOF TYPE SUITABLE FOR EXTERIOR INSTALLATION.

#### 12.COORDINATION:

- A.IN THE EVENT THAT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE CONSTRUCTION DOCUMENTS, THE FEATURES SHALL BE OF THE SAME CHARACTER AS SIMILAR CONDITIONS THAT ARE SHOWN.
- 14.ALL DIMENSIONS, ELEVATIONS AND EXISTING CONDUITS SHALL BE ON THE SITE BY GENERAL CONTRACTOR, AND EACH SUB-CONTRACTOR BEFORE THE WORK BEGINS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION BEFORE CONSTRUCTION BEGINS.
- 15.THE ENGINEER HAS PREPARED THESE DOCUMENTS ONLY FOR IMPROVEMENTS SPECIFIED, DETAILED OR SHOWN AS NEW WORK, AND ASSUMES NO RESPONSIBILITY FOR OTHER CONSTRUCTION, MATERIAL OR EQUIPMENT NOTED AS "PROVIDED BY OTHERS".
- 16.DEMOLITION AND/OR REMOVAL OF ELECTRICAL EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. ALL REMOVED EQUIPMENT NOT TO BE REUSED SHALL BE RETURNED TO OWNER'S OR AS DIRECTED BY THE OWNER'S INSPECTOR.
- 17.ALL JUNCTION BOX COVER PLATES FOR BRANCH CIRCUIT SYSTEM SHALL BE CLEARLY MARKED WITH PERMANENT INK FELT PEN IDENTIFYING THE BRANCH CIRCUIT (BOTH PANEL NUMBER AND CIRCUIT NUMBER) CONTAINED IN THE BOX.
- 18.THE CONTRACTOR SHALL MAINTAIN THE UNIFORMITY AND CONTINUITY OF THE GROUNDING SYSTEM IN ALL CONDUITS/RACEWAYS.
- 19.TEST THE ENTIRE SYSTEM TO DEMONSTRATE TO THE ENGINEER THAT THE ELECTRICAL COMPONENTS AND SPECIAL SYSTEMS ARE COMPLETE AND FUNCTION PROPERLY. MAKE NECESSARY CORRECTIONS AND LEAVE SYSTEMS READY FOR OPERATION.
- 20.EXPOSED CONDUITS SHALL BE INSTALLED ALONG MECHANICAL PIPES. INSIDE BUILDING THE EXPOSED CONDUITS UP TO 7'-0" SHALL BE RIGID STEEL AND ABOVE 7'-0" MAY BE EMT. ALL EXPOSED EXTERIOR CONDUITS SHALL BE GALVANIZED RIGID CONDUITS. THREADLESS CONNECTORS & COUPLINGS SHALL NOT BE USED FOR RIGID CONDUIT. CONDUIT LARGER THAN 1 1/4" SHALL BE GALVANIZED RIGID CONDUIT. ALL EXPOSED CONDUITS. RACEWAYS. AND BOXES SHALL BE PAINTED TO MATCH THE SURFACE WHERE INSTALLED. DO NOT PAINT THE WIREMOLD.
- 21.DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND THE SIZE AND LOCATION OF EQUIPMENT IS INDICATED TO SCALE WHENEVER POSSIBLE. COORDINATE LOCATION AND LAYOUT WITH OTHER WORK. CONTRACTOR SHALL PROVIDE TO THE ENGINEER A  $\frac{1}{4}$ "=1'-0" SCALED DRAWING OF ELECTRICAL EQUIPMENT ROOMS SHOWING LOCATION AND CLEARANCES OF SUBMITTED EQUIPMENT FOR REVIEW AND APPROVAL PRIOR TO ORDERING OF ELECTRICAL EQUIPMENT.
- 22.THE SEISMIC BRACING AND ANCHORAGE OF ELECTRICAL CONDUITS AND WIREWAY SHALL BE IN ACCORDANCE WITH THE "GUIDELINE FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS", PUBLISH BY SMACNA AND PPIC. COPY OF THE "GUIDELINE FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS", SHALL BE APPROVED BY STRUCTURAL ENGINEER PRIOR TO INSTALLATION.

- 23.PROVIDE HANGERS, SUPPORTS, SEISMIC RESTRAINTS AND / OR BRACING FOR ALL EQUIPMENT, CONDUIT, AND LIGHTING FIXTURES TO SUSTAIN VERTICAL LOADS AND RESIST HORIZONTAL FORCES IN ANY DIRECTION TO COMPLY WITH 2007 EDITION OF TITLE 24, PART 2, CALIFORNIA BUILDING CODE, CHAPTER 16, TABLE 16A AND ASSOCIATED NOTES.
- 24.PER CEC 300-21, "OPENINGS AROUND ELECTRICAL PENETRATIONS THROUGH FIRE-RESISTANT-RATED WALLS, PARTITIONS, FLOORS, CEILINGS SHALL BE FIRESTOPPED USING APPROVED METHODS TO MAINTAIN THE FIRE RESISTANCE RATING."
- 25.ALL CONDUCTORS FOR FEEDERS AND BRANCH CIRCUITS SHALL BE COPPER, TYPE THWN/THHN, RATED FOR 75°C. SIZES #12 AWG MAY BE SOLID OR STRANDED, #10 AND LARGER SHALL BE STRANDED. PROVIDE 75°C RATED AND APPROVED TERMINATION FOR ALL CONDUCTORS.
- 26.ALL ELECTRICAL WORK SHALL BE PER THE APPLICABLE CEC CODE. CONTRACTOR SHALL INCLUDE IN HIS BID ALL REQUIRED LABOR, MATERIAL, EXPERTISE AND QUALIFIED PERSONNEL TO COMPLETELY INSTALL IN A CODE COMPLIANT MANNER, ALL WORK SHOWN ON THE PLANS OR REFERRED TO IN THE SPECIFICATIONS.
- 27.WHEN THERE ARE DISCREPANCIES BETWEEN CONTRACT DOCUMENTS (DRAWINGS AND/OR SPECIFICATIONS), OBTAIN CLARIFICATION FROM THE ENGINEER PRIOR TO BID. FOR BIDDING PURPOSES THE MORE STRINGENT OR MORE EXPENSIVE REQUIREMENT(S) SHALL APPLY.
- 28.DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN A DAILY RECORD OF ALL DEVIATIONS FROM THE BID DRAWINGS. ALL DIMENSIONS AND OTHER INFORMATION NECESSARY TO COMPLETELY EXPLAIN AND LOCATE ALL ELEMENTS OF THESE DEVIATIONS SHALL BE RECORDED. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL SUBMIT TO THE OWNER, ONE COMPLETE SET OF REPRODUCIBLE DRAWINGS CORRECTED TO REFLECT "AS-BUILT" CONDITIONS OF THE WORK.
- 29.ANY SUBMITTALS FOR EQUIPMENT DIFFERENT FROM THE SPECIFIED ITEMS SHOWN ON THE PLANS SHALL BE ACCOMPANIED BY CUT SHEETS FOR THE ORIGINAL SPECIFIED ITEM(S). SUBMITTALS WITHOUT THE SPECIFIED CUT SHEETS WILL BE REJECTED AS INCOMPLETE.
- 30."PROVIDE" SHALL BE DEFINED AS: FURNISH AND INSTALL.
- 31.ALL MATERIALS, EQUIPMENT, CONDUIT AND WIRING SHALL BE NEW AND PROVIDED BY THE CONTRACTOR, REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR EQUIPMENT AND MATERIAL APPROVED FOR USE UNDER THIS CONTRACT.
- 32.WIRING FOR ALL LOW VOLTAGE SYSTEMS SHALL BE ENCLOSED IN CONDUIT AND/OR RACEWAY.
- 33.ALL DIMENSIONS AND ELEVATIONS SHALL BE CHECKED AND VERIFIED ON THE SITE BY THE GENERAL CONTRACTOR AND EACH SUBCONTRACTOR BEFORE THE WORK BEGINS. ALL PERCEIVED ERRORS, OMISSIONS AND DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION BEFORE CONSTRUCTION BEGINS.
- 34.ALL RACEWAYS INSIDE OF BUILDING SHALL BE CONCEALED, INCLUDE ALL REQUIRED DEMOLITION, CUTTING, PATCHING AND FINISH TO MATCH EXISTING INSTALLATION AS REQUIRED TO INSTALL NEW CONDUIT AND RACEWAYS IN EXISTING BUILDING.
- 35.ALL CONDUIT PENETRATIONS THROUGH FIRE-RATED FLOOR SLABS, SHAFTS AND WALLS SHALL BE SEALED AGAINST THE SPREAD OF FIRE OR SMOKE WITH APPROVED CABLE & CONDUIT FIRE STOPS OR FIRE RESISTANT SEALANT TO GIVE THE EQUIVALENT FIRE RATING OF THE STRUCTURE BEFORE THE PENETRATION. ALL OTHER NON-RATED PENETRATIONS OF STRUCTURES SHALL BE SEALED.
- 36.EXPOSED AND CONDUITS ABOVE T-BAR CEILINGS SHALL BE INSTALLED PARALLEL TO OR AT RIGHT ANGLES TO EXISTING BEAMS OR WALLS. EXPOSED CONDUITS UP TO 7'-0" ABOVE FINISH FLOOR SHALL BE RIGID GALVANIZED STEEL AND ABOVE 7'-0" MAY BE EMT.
- 37.PROVIDE ELECTRICAL PANELS WITH TYPEWRITTEN "AS-BUILT" PANEL SCHEDULE. PANEL SCHEDULE SHALL INCLUDE LOCATION. QUANTITY AND TYPE OF DEVICES SERVED.
- 38.PROVIDE ELECTRICAL PANELS WITH ENGRAVED NAMEPLATE ON OUTSIDE OF PANEL ABOVE DOOR OPENING.
- 39.SUPPORT CONDUIT 2-1/2 INCH TRADE SIZE OR SMALLER WITH U.L. LISTED CLAMPS AND HANGERS IN ACCORDANCE WITH SMACNA STANDARDS.
- 40.THE SEISMIC ANCHORAGE OF ELECTRICAL EQUIPMENT SHALL CONFORM TO C.C.R. 2010 CHAPTER 16 AND ASCE 7-05 CHAPTER 13.
- 41.ALL PIPING CROSSING BUILDING SEISMIC SEPARATIONS SHALL BE PROVIDED WITH APPROVED FLEXIBLE CONNECTORS.
- 42.THE SEISMIC BRACING AND ANCHORAGE OF ELECTRICAL CONDUITS, BUS DUCTS, WIREWAYS AND CABLE TRAYS SHALL BE IN ACCORDANCE WITH THE "GUIDELINE FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS" PUBLISHED BY SMACNA LATEST VERSION AND APPROVED BY OSHPD. A COPY OF THE APPROVED GUIDELINE SHALL BE PROVIDED BY THE CONTRACTOR AND BE KEPT AT THE JOB SITE AT ALL TIMES. WHERE BRACING AND ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE GUIDELINE. THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT, ELECTRICAL ENGINEER AND OSHPD FIELD ENGINEER.
- 43.CONTRACTOR SHALL SUBMIT A CALCULATIONS AND DETAILS FOR APPROVAL WHEN USING AN INSTALLATION METHOD NOT COVERED UNDER ANY OF THE STRUCTURAL DRAWINGS STANDARD DETAILS.

#### **EQUIPMENT SCHEDULE EQUIPMEN EQUIPMENT** REMARKS NUMBER GENERAC MODEL SG150. 150 KW NATURAL GAS GENERATOR, 89 dBA, 2,940 LBS, 3 PHASE 277/480 **EMERGENCY** EG-1VAC. PROVIDE WITH GENERATOR OPTIONAL BATTERY CHARGER SEE DIAGRAM #1/E-3.1

#### SYMBOL LIST

(NOT ALL SYMBOLS ARE USED ON PLANS)

#### **POWER SYSTEM**

JUNCTION BOX: SURFACE MOUNTED OR INSIDE WALL

G.F.I. DUPLEX RECEPTACLE, 20A, 125 VOLTS, NEMA 5-20R, +18" U.O.N. PROVIDE WP "WHILE IN USE" COVER IN EXTERIOR LOCATIONS.

FLOOR DUPLEX RECEPTACLE, 20A, 125V, NEMA 5-20R

HEAVY DUTY DISCONNECT SWITCH, H.P. RATED, PER EQUIPMENT MFC., 3P U.O.N. "F" INDICATES FUSED, PROVIDE FUSE SIZE BASED ON NAMEPLATE RATING OF EQUIPMENT.

FAN (EXHAUST FAN OR FLY FAN), SIZE AS INDICATED.

MOTOR, HORSEPOWER SIZE AS INDICATED.

COMBINATION FUSED MOTOR DISCONNECT SWITCH AND MAGNETIC MOTOR STARTER SIZED ACCORDING TO MOTOR MANUFACTURER RECOMMENDATIONS, HOA, STARTER SIZE 1 MIN., SOLID STATE ADJUSTABLE OVER LOAD PROTECTION, MOUNTED ON INDEPENDENT SUPPORT.

SURFACE MOUNTED PANELBOARD

FLUSH MOUNTED PANELBOARD

MAIN SWITCHBOARD

DISTRIBUTION PANELBOARD

**TRANSFORMER** 

RELAY WITH ENCLOSURE AS REQUIRED.

ELECTRICAL UNDERGROUND PULLBOX

NOTE REFERENCE TAG.

#### STRUCTURAL CALCULATION

#### **EXISTING WEIGHT:**

#### A. GENERATOR = 3.819 LBS

- B. CONCRETE CURB =  $9 \times 150 = 1,350 \text{ LBS}$
- C. DAY TANK =  $128 + (7.15 \times 10 = 200 \text{ LBS}.$
- D. STORAGE TANK =  $600 + (7.15 \times 200) =$
- 2,043 LBS

TOTAL WEIGHT = 7,412 LBS

#### NEW WEIGHT:

- A. GENERATOR = 2,940 LBS
- B. STORAGE TANK = 2,043 LBS
- TOTAL WEIGHT = 4,983 LBS

#### SHEET INDEX

E - 1.1LIBRARY FRONT SHEET

E - 1.2SINGLE LINE DIAGRAM

E - 2.1LIBRARY ENLARGED FLOOR PLAN

E - 3.1LIBRARY DIAGRAMS

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JOB NO. 14-007.C2

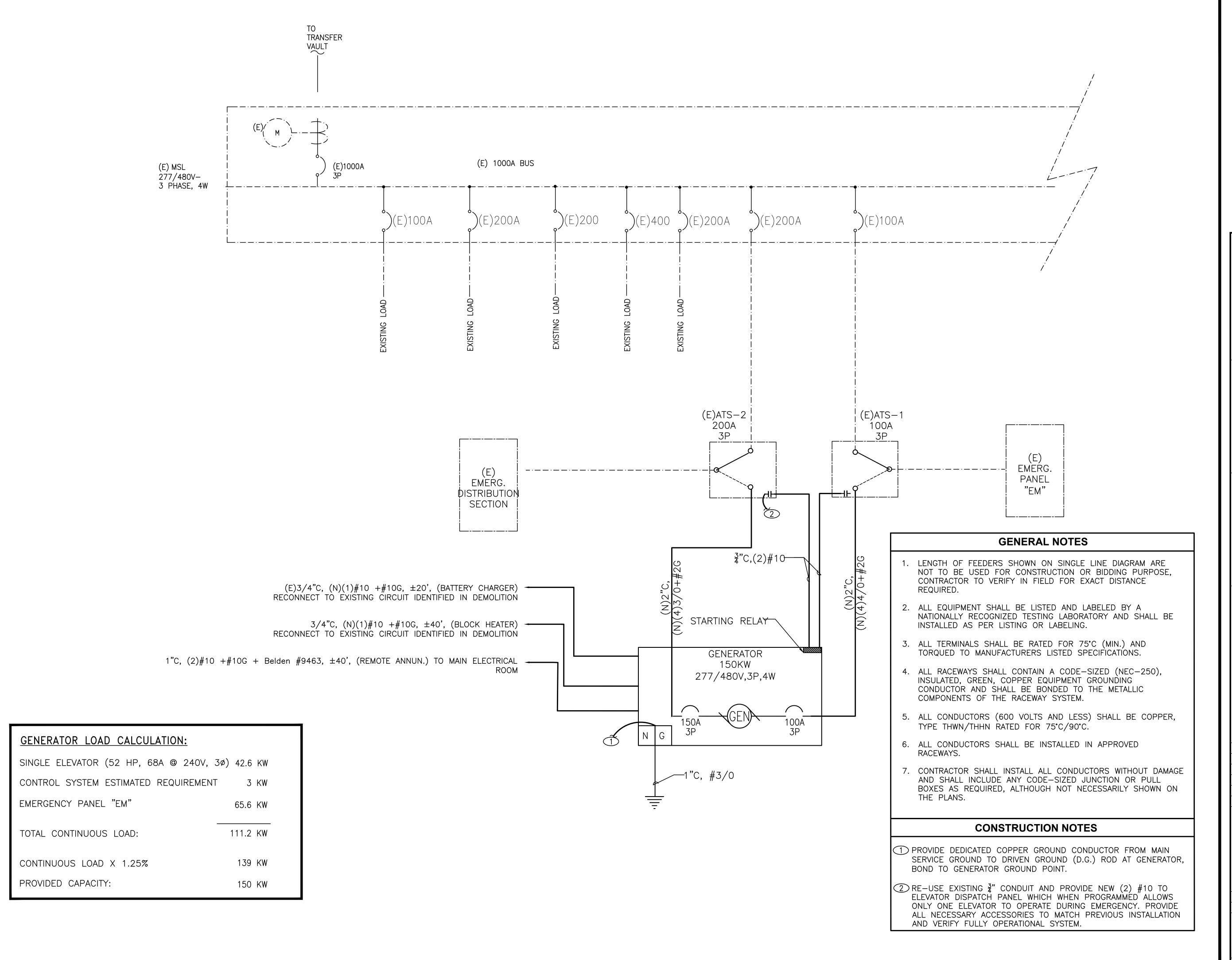
STAMPS/SEALS



SHEET TITLE:

LIBRARY FRONT SHEET

PROJECT NO.14-007.C2 PROJECT ARCH: D.M.





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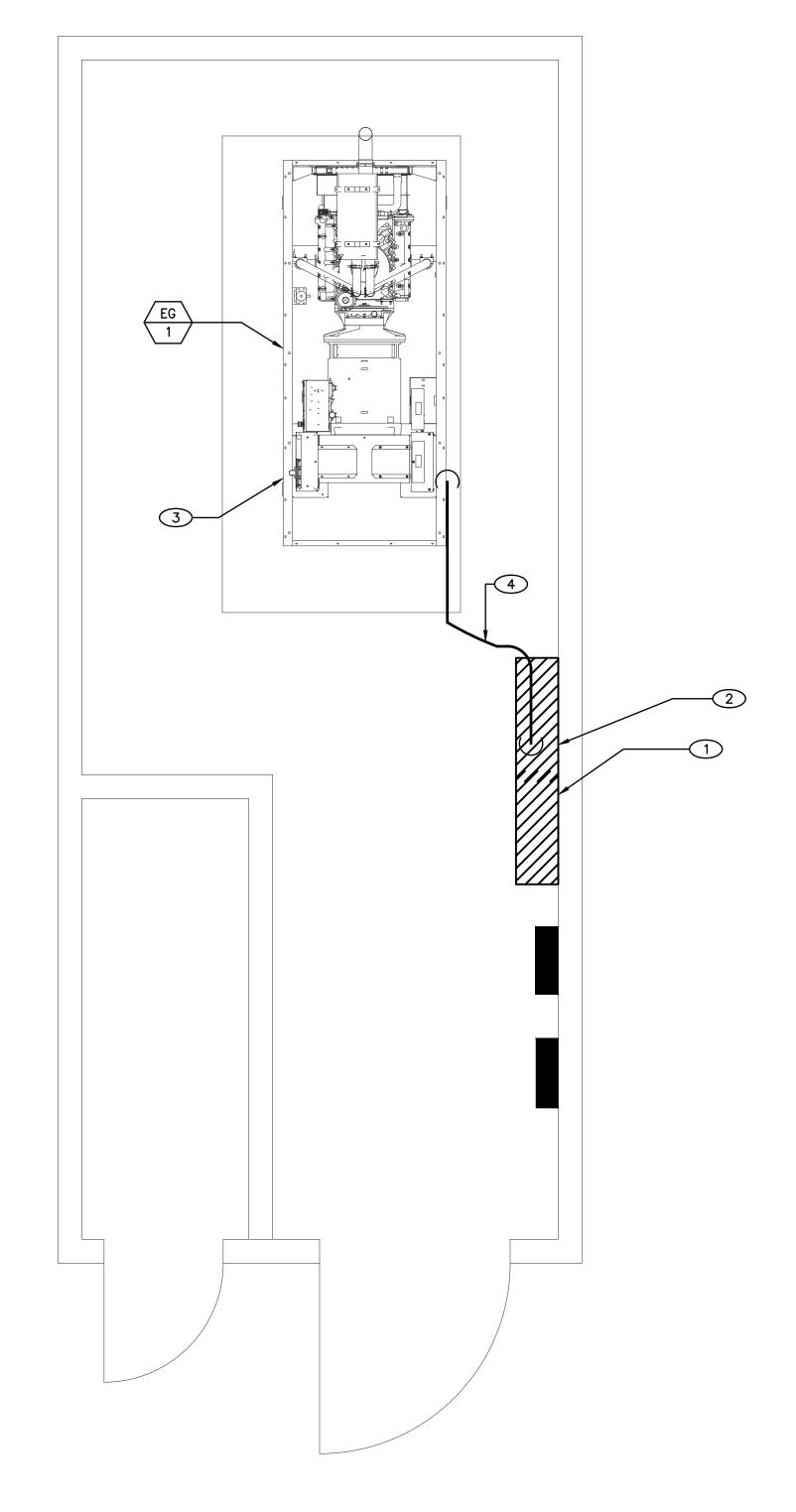
SINGLE LINE DIAGRAM

PROJECT NO.14-007.C2 PROJECT ARCH: D.M.

DRAWN: CHECKED:

E-1.2

SHEET:

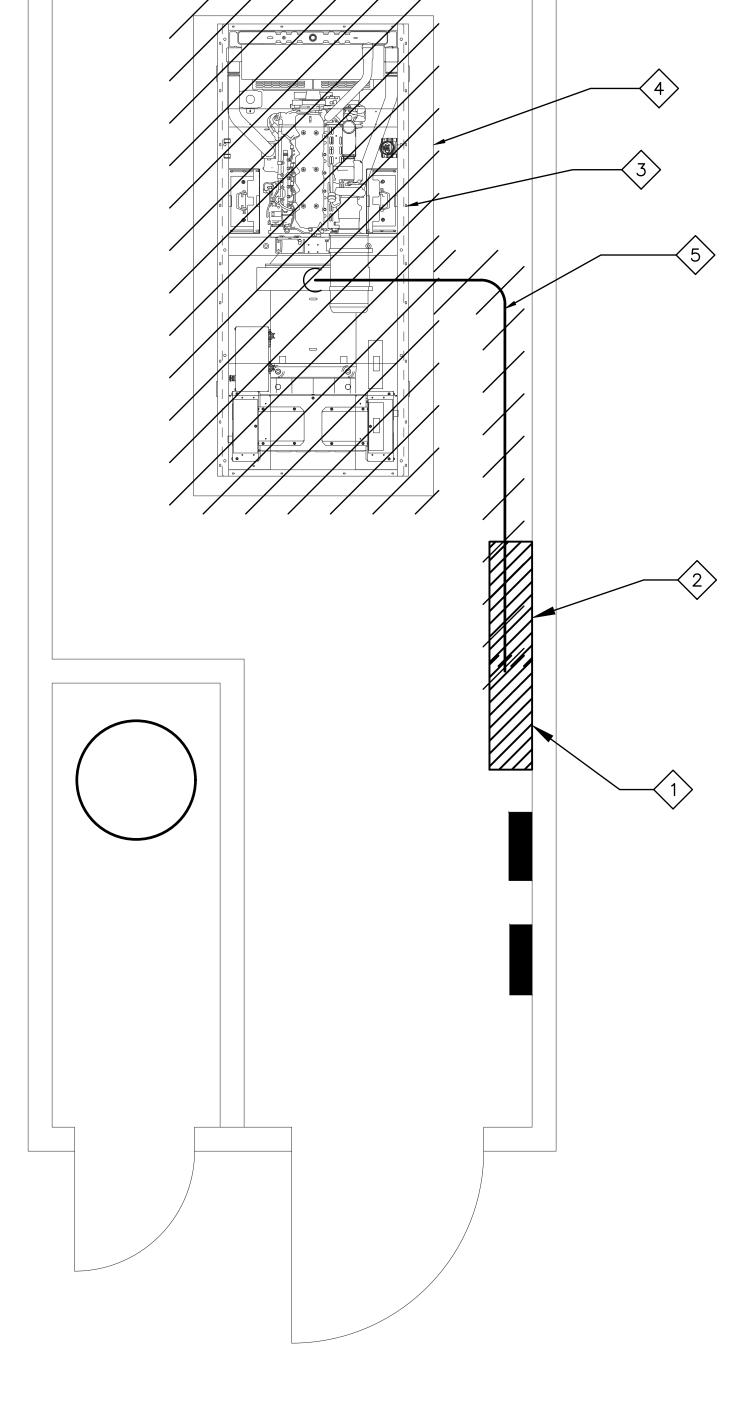


CONSTRUCTION FLOOR PLAN Scale: 1/4"=1'-0"

#### GENERAL NOTES CONSTRUCTION NOTES

- 1. ALL ITEMS SHOWN ARE NEW UNLESS OTHERWISE NOTED AS
- 2.THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAINTING AND/OR REPLACING ANY BROKEN OR DAMAGED ITEMS, (PRE-EXISTING AS WELL AS DAMAGED ITEMS AS A RESULT OF THIS CONSTRUCTION), INCLUDING PATCHING WALLS AND PAINTING AS REQUIRED, TO BRING THE AREA TO ITS ORIGINAL CONDITION, INCLUDING CEILING SUSPENSION SYSTEMS, EQUIPMENT SUPPORT SYSTEM, LIGHTING FIXTURES, J-BOXES, OR OTHER ITEMS REQUIRED TO BE REMOVED TO PERFORM THE WORK.
- 3.WATERPROOFING AND FIRE STOP SHALL BE USED ON ALL PENETRATIONS THRU FIRE RATED WALLS.
- 4.ALL RACEWAYS SHALL CONTAIN A CODE-SIZED EQUIPMENT GROUNDING CONDUCTOR THAT IS BONDED TO THE METALLIC COMPONENTS OF THE ELECTRICAL SYSTEM.
- 5.ALL CONDUCTORS TO BE COPPER, TYPE THWN/THHN.

- 1) EMERGENCY SWITCH BOARD "EM" TO REMAIN.
- 2 EXISTING AUTOMATIC TRANSFER SWITCH TO REMAIN.
- 3 INSTALL NEW 150 KW NATURAL GAS GENERATOR ASSEMBLY WITH ALL RELATED ACCESSORIES. EXTEND AND RECONNECT BATTERY CHARGER, HEAT BLOCK AND STARTER POWER CIRCUITS TO NEW ASSEMBLY. PROVIDE ALL CONDUIT, CONDUCTORS AND ACCESSORIES AS NEEDED FOR FULLY FUNCTIONAL SYSTEM.
- PROVIDE NEW (2) 2" CONDUIT WITH NEW (4) #4/0 + #2GROUND FROM NEW GENERATOR ASSEMBLY TO EXISTING AUTOMATIC TRANSFER SWITCHES ASSEMBLY. REFER TO SINGLE LINE DIAGRAM ON SHEET E-1.2. PROVIDE ALL CONNECTION FOR NECESSARY OPERATION.



DEMOLITION FLOOR PLAN

#### DEMOLITION GENERAL NOTES

- 1. CONTRACTOR TO CONSULT OAR AND OTHER TRADES FOR SCHEDULE AND SEQUENCE OF DEMOLITION.
- 2. NOT ALL DEVICES, RACEWAYS, ETC. FOR REMOVAL ARE SHOWN. CONTRACTOR TO SURVEY SITE FOR COMPLETE DEMOLITION
- 3. AS A RESULT OF ANY DEMOLITION, ALLOW NO 'ORPHANED' OR ISOLATED DEVICES OUTSIDE OF WORK SCOPE AREA TO REMAIN DISCONNECTED. PROTECT AND RE-CONNECT ALL EXISTING DEVICES TO REMAIN TO THE ORIGINAL CIRCUIT OF ORIGIN AND LABEL ACCORDINGLY. PROVIDE TERMINATION OF EXISTING CONDUCTORS, NEW J-BOXES, CONDUIT, ETC. AS NECESSARY.
- 4. MARK ALL EXPOSED JUNCTION BOXES WITH THE PANEL AND CIRCUIT NUMBERS OF THE CIRCUITS ENCLOSED WITHIN THE JUNCTION BOX USING A PERMANENT, FELT TIP MARKER.
- 5. PAINT ALL FIRE ALARM JUNCTION BOXES COLOR RED, MARK ALL FIRE ALARM CONDUIT COLOR RED.
- 6. PROTECT EXISTING FIRE ALARM INSTALLATION IN WORKING ORDER THROUGHOUT THE DURATION OF THE PROJECT.
- 7. TRACE CIRCUIT ORIGIN FOR ALL RECEPTACLES TO BE REMOVED AND NOTE FOR CONNECTION OF ADDED LOADS. UTILIZE IDENTIFIED CIRCUITS FOR THE NEW RECEPTACLES AND LOADS TO BE INSTALLED.

#### **DEMOLITION NOTES**

- 1 EMERGENCY SWITCH BOARD "EM" TO REMAIN.
- (2) EXISTING AUTOMATIC TRANSFER SWITCH TO REMAIN.
- REMOVE EXISTING 150 KW GENERATOR ASSEMBLY WITH ALL RELATED ACCESSORIES. DISCONNECT, IDENTIFY AND PROTECT EXISTING BATTERY CHARGER, HEAT BLOCK AND STARTER CIRCUITS AND CONDUITS FOR RECONNECTION TO NEW GENERATOR ASSEMBLY SHOWN ON CONSTRUCTION PLAN 2/E-2.1. REMOVE EXISTING FEEDING CONDUCTORS.
- 4 EXISTING CONCRETE PAD TO REMAIN
- 5 REMOVE EXISTING 2" CONDUIT AND CONDUCTORS FROM GENERATOR TO EMERGENCY SWITCH BOARD "EM".



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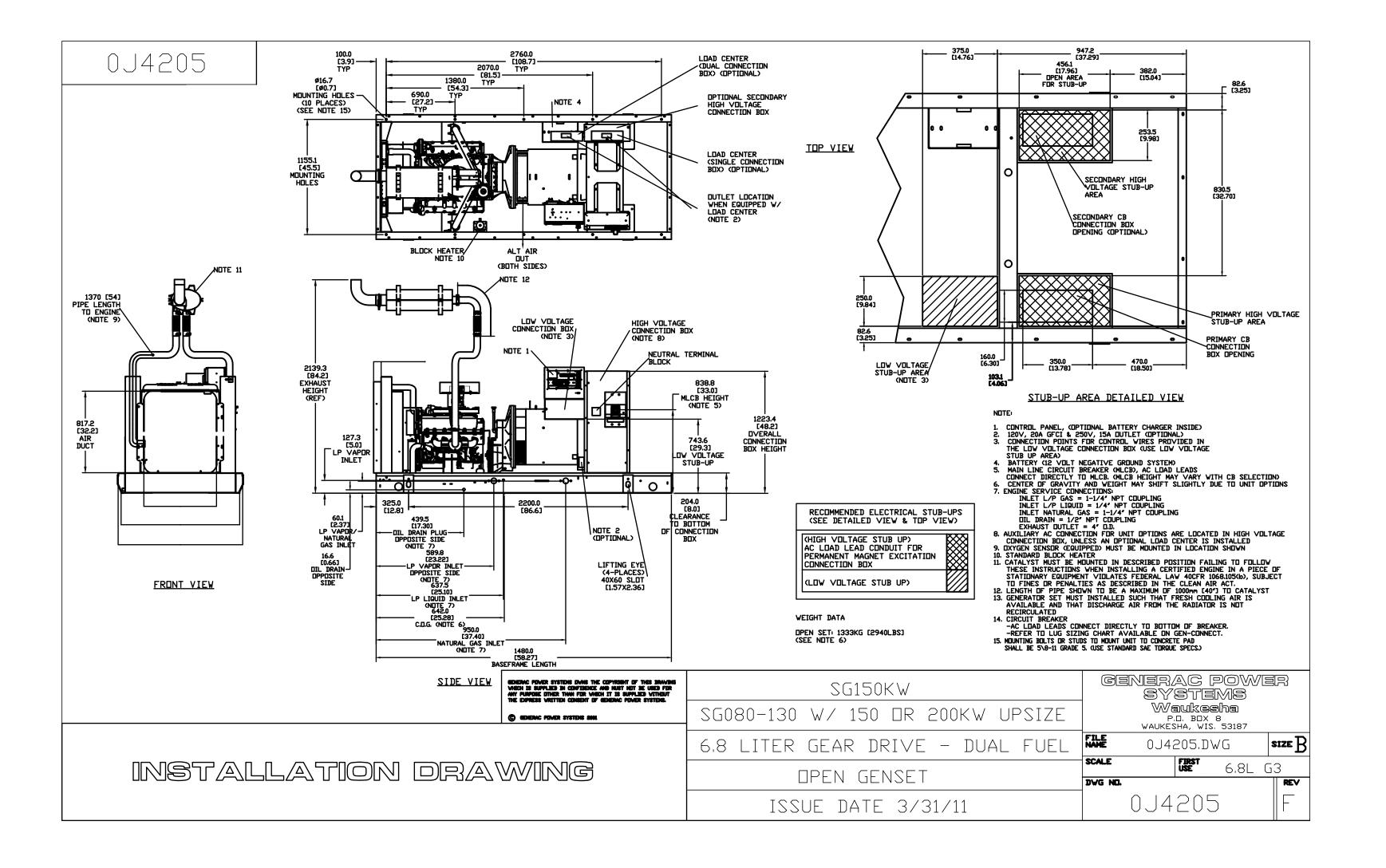


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SHEET TITLE:

LIBRARY **ENLARGED** FLOOR PLANS

PROJECT NO.14-007.C2 PROJECT ARCH: D.M. CHECKED:





ONE MANCHESTER BOULEVARD INGLEWOOD, CALIFORNIA 90301

**LIBRARY EMERGENCY GENERATOR** SCAQMD COMPLIANCE CONSULTANT BUDLONG www.budlong.com & ASSOCIATES, INC. CAMARILLO OFFICE

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DIAGRAMS

PROJECT NO.14-007.C2

PROJECT ARCH: D.M.

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