

	——— EXISTING TO BE REMOVED BY THIS CONTRACTOR (DARK SHORT DASHED LINE)
	APPLICABLE CODES
	ALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE CALIFORNIA CODE OF
• 2016 C	LATIONS (CCR) TITLE 24, PART 1 ALIFORNIA BUILDING CODE (CBC) CALIFORNIA CODE OF REGULATIONS (CCR) TITL 2 (2015 INTERNATIONAL BUILDING CODE (IBC) W/CALIFORNIA AMENDMENTS)
• 2016 C	ALIFORNIA ELECTRICAL CODE (CEC) CALIFORNIA CODE OF REGULATIONS (CCR) T
• 2016 C	RT 3 (2014 NATIONAL ELECTRICAL CODE (NEC) W/CALIFORNIA AMENDMENTS) ALIFORNIA MECHANICAL CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 2 4 (2015 UNIFORM MECHANICAL CODE (UMC) W/CALIFORNIA AMENDMENTS)
• 2016 C	ALIFORNIA PLUMBING CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, 5 (2015 UNIFORM PLUMBING CODE (UPC) W/CALIFORNIA AMENDMENTS)
• 2016 C	ALIFORNIA ENERGY EFFICIENCY STANDARDS CODE CALIFORNIA CODÉ OF
• 2016 C	LATIONS (CCR) TITLE 24, PART 6 ALIFORNIA FIRE CODE (CFC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24,
	9 (2015 INTERNATIONAL FIRE CODE (IFC) W/CALIFORNIA AMENDMENTS) ALIFORNIA REFERENCED STANDARDS CODE CALIFORNIA CODE OF REGULATIONS
(CCR)	TITLE 24, PART 12 CANS WITH DISABILITIES ACT (ADA) TITLE II - ACCESSIBILITY GUIDELINES FOR
BUILDI	NGS AND FACILITIES (ADAG) 1990 STATE FIRE MARSHAL REGULATIONS AND
 CALIFO 	DMENTS TO-DATE DRNIA CODE OF REGULATIONS (CCR) TITLE 24, CALIFORNIA STATE ACCESSIBILITY DARDS CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 19
STANDARI	<u>DS:</u>
NFPA 13 NFPA 14 NFPA 17 NFPA 17a	AUTOMATIC SPRINKLER SYSTEM (2016) STANDPIPE SYSTEMS (2016) DRY CHEMICAL EXTINGUISHING SYSTEMS (2016) WET CHEMICAL SYSTEMS (2016)
NFPA 20	STATIONARY PUMPS (2016)

NFPA 24 PRIVATE FIRE MAINS (2016)

NFPA 72 NATIONAL FIRE CODE (2016)

NFPA 22 WATER TANKS FOR PRIVATE FIRE PROTECTION (2016)

NFPA 80 FIRE DOORS AND OTHER OPENING PROTECTIVES (2016)

NFPA 92 STANDARD FOR SMOKE CONTROL SYSTEMS (2015)

CONTRACTOR ABBREVIATION KEY					
ABBR:	DESCRIPTION:				
A.C.	ASBESTOS ABATEMENT CONTRACTOR				
A.T.C.	AUTOMATIC TEMPERATURE CONTROL CONTRACTOR				
A.V.C.	AUDIO/VISUAL CONTRACTOR				
C.C.	CIVIL CONTRACTOR				
C.M.	CONSTRUCTION MANAGER				
E.C.	ELECTRICAL CONTRACTOR				
F.P.C.	FIRE PROTECTION CONTRACTOR				
F.S.C.	FOOD SERVICE CONTRACTOR				
G.C.	GENERAL CONTRACTOR				
H.C.	HEATING CONTRACTOR				
M.C.	MECHANICAL CONTRACTOR				
N.C.C.	NURSE CALL CONTRACTOR				
P.C.	PLUMBING CONTRACTOR				
S.C.	SECURITY CONTRACTOR				
T.C.	TECHNOLOGY CONTRACTOR				
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR				
V.C.	VENTILATION CONTRACTOR				

CONTACT PERSONS:				
DESCRIPTION:	PERSON:			
PROJECT MANAGER				
MECHANICAL				
ELECTRICAL				
TECHNOLOGY				
MEDICAL EQUIPMENT				
ACOUSTICAL				

REQUIRED BY PROJECT MANAGER

	PLUMBING SYMBOL LIST		PLUMBING ABBR				
	NOT ALL SYMBOLS MAY APPLY.	ABBR:	DESCRIPTION:				
YMBOL:	DESCRIPTION:	AD	ACCESS DOOR				
CW	COLD WATER - POTABLE	AFF	ABOVE FINISHED FLOOR				
	DRAIN	CI	CAST IRON				
—SAN——	SANITARY DRAINAGE	СО	CLEANOUT				
SAN	SANITARY DIVAINAGE	DI	DUCTILE IRON				
V	VENT	E	EXISTING				
W	SERVICE WATER - POTABLE	FCO	FLOOR CLEANOUT				
		FD	FLOOR DRAIN				
		I.E.	INVERT ELEVATION (FOR REFEREI				
		TYP	TYPICAL				
		VTR	VENT THROUGH ROOF				
	PIPE CONTINUATION	wco	WALL CLEANOUT				
	PIPE CAP	YCO	YARD CLEANOUT				
	PIPE DOWN		TARD GLEAROOT				
 0	PIPE UP OR UP/DOWN						
-	DIRECTION OF FLOW IN PIPE						
	PIPE CONTINUATION						
	PIPE CAP						
 ə	PIPE DOWN						
——о	PIPE UP OR UP/DOWN						
-	DIRECTION OF FLOW IN PIPE	PLUME	SING FIXTURE ROUG				
		HW APPLIÉS (ANITARY RISER UP IN WALL TO FIXTUR ONLY TO THE FINAL VERTICAL RISE-DR				
		I IVERTICAL RIS	SE-DROP SHALL BE A MINIMUM OF 3/4" (

ABBR:	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
CI	CAST IRON
CO	CLEANOUT
DI	DUCTILE IRON
Е	EXISTING
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
I.E.	INVERT ELEVATION (FOR REFERENCE ONLY)
TYP	TYPICAL
VTR	VENT THROUGH ROOF
WCO	WALL CLEANOUT
YCO	YARD CLEANOUT

GH-IN SCHEDULE RE SHALL BE A MINUMUM OF 2". 2) 1/2" CW AND DROP TO EACH FIXTURE, BRANCH PIPING TO VERTICAL RISE-DROP SHALL BE A MINIMUM OF 3/4" UNLESS NOTED OTHERWISE. 3) SIZES SHOWN ARE MINIMUMS. SIZES SHOWN ON THE DRAWING THAT ARE LARGER THAN THE SIZES LISTED IN THE SCHEDULE SHALL DICTATE THE ROUGH-IN SIZE.

DOMESTIC DOMESTIC **FIXTURE** SANITARY CW DESCRIPTION (NOTE 3) (NOTE 3) (NOTE 3) REMARKS

MECHANICAL RENOVATION NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL.

- 1. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND
- REPORT ANY CONFLICTS BEFORE PROCEEDING. 2. NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK, NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK.
- 3. FIELD VERIFY THE AVAILABLE CLEARANCES FOR DUCTWORK AND PIPING BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD
- CONDITIONS. KEEP FOR WORK IN CONGESTED RENOVATIONS 4. EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF HIS WORK AND SHALL NOTIFY THE GENERAL CONTRACTOR] [CONSTRUCTION MANAGER]
- ARCHITECT/ENGINEER PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO HIS AREA OF WORK. KEEP FOR MULTI-STORY PROJECTS WITH LEVELS BELOW THAT ARE OUT OF PROJECT SCOPE 5. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF
- CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO
- 6. WHERE EXISTING MECHANICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, PIPING, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING MECHANICAL
- SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK. 7. PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT
- REMAIN ACTIVE. 8. OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW
- SYSTEMS ARE INSTALLED. 9. MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR TIE IN AND SWITCHOVER, DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY
- DRAINING SYSTEM. MAKE CHANGEOVER TO NEW SYSTEMS WITH MINIMUM OUTAGE. 10. DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT THAT HAS BEEN REMOVED.

MECHANICAL PHASING NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL.

- 1. REFER TO ARCHITECTURAL DRAWINGS FOR GENERAL DESCRIPTION OF PHASES. REFER TO GENERAL CONTRACTOR'S/ARCHITECT'S INSTRUCTIONS FOR MORE DETAILS, PHASING SCHEDULES AND FOR CONCURRENT WORK. MECHANICAL, ELECTRICAL AND TECHNOLOGY DRAWINGS DEPICT THE INTENT OF THE FINAL DESIGN. THE MECHANICAL, ELECTRICAL, AND TECHNOLOGY DRAWINGS DO NOT DEPICT THE MEANS AND METHODS TO MEET THE REQUIREMENTS OF THE PHASING CRITERIA.
- 2. REVIEW PROJECT PHASING PLANS TO COORDINATE DEMOLITION WORK, OUTAGES, ETC. WITH AFFECTED ADJACENT AREAS.
- 3. PROVIDE TEMPORARY DUCTWORK, PIPING, SHUTOFF VALVES, ZONE VALVES, ZONE ALARMS, ETC. AS NEEDED TO MAINTAIN SERVICE TO ALL AREAS DURING ALL PHASES OF
- 4. INSTALL TEMPORARY DUCTWORK, PIPING, SHUTOFF VALVES, ETC. AS NECESSARY TO KEEP ALL OCCUPIED SPACES OPERATIONAL THROUGHOUT ALL PHASES OF THE PROJECT 5. PHASE DEMOLITION WORK TO MINIMIZE DOWNTIME.

PLUMBING GENERAL NOTES:

- 1. THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEMS. WHETHER SPECIFIED OR NOT. 2. CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR A COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES
- PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN. 3. CONTRACTOR SHALL VERIFY THAT FIXTURES SUPPLIED ARE APPROVED PER ALL APPLICABLE STATE, LOCAL AND GOVERNING AUTHORITIES.
- 4. ALL FIXTURES SHALL CONFORM TO FEDERAL ACT S.3874 5. INVERT ELEVATIONS ARE FROM EXISTING DRAWINGS AND MAY NOT BE ACCURATE. VERIFY ALL ELEVATIONS BEFORE BEGINNING WORK.
- 6. VERIFY UNDERGROUND PIPE SIZES, INVERT ELEVATIONS, AND LOCATIONS PRIOR TO
- BEGINNING ANY WORK. 7. REFER TO THE PLUMBING ROUGH-IN SCHEDULE FOR THE SIZES OF BRANCH PIPES TO PLUMBING FIXTURES.
- 8. FOR CLARITY, NOT ALL VALVES HAVE BEEN SHOWN. PROVIDE SHUTOFF VALVES IN DOMESTIC WATER PIPING SERVING EACH ROOM WITH FIXTURES. ANGLE STOPS SHALL NOT
- BE CONSIDERED SHUTOFF VALVES. 9. EXISTING CONDITIONS ON DEMOLITION PLANS ARE PROVIDED TO INDICATE THE GENERAL SCOPE OF ITEMS TO BE REMOVED. REFER TO SPECIFICATION SECTION 22 05 05 FOR
- ADDITIONAL DEMOLITION INFORMATION. 10. P.C. SHALL CUT AND PATCH EXISTING AS REQUIRED FOR NEW OR DEMOLITION WORK UNLESS NOTED OTHERWISE. REFER TO SPECIFICATION SECTION 22 05 05 FOR ADDITIONAL INFORMATION.

MECHANICAL GENERAL NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL.

- 1. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING
- CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT 2. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM
- ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES. 3. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING
- WITH FABRICATION OR EQUIPMENT ORDERS. 4. REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER
- ACCESS. 5. ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR
- EXPENSE TO OTHERS. EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL
- CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF
- 7. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING
- MOUNTED DEVICES. OTHER THAN SPRINKLERS. 8. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND
- 9. IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
- 10. SEAL ALL FLOOR, WALL, AND ROOF PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE. PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER_ FOR OUTDOOR USE.
- 11. CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL. PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS
- 12. WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL
- RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT. 13. EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
- 14. DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES. 15. MAINTAIN MINIMUM 3'-6" CLEARANCE IN FRONT OF ALL ELECTRICAL PANELS, MOTOR

CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

STARTERS, SWITCHES, AND DISCONNECTS.

P0.02

P1.00

P1.01

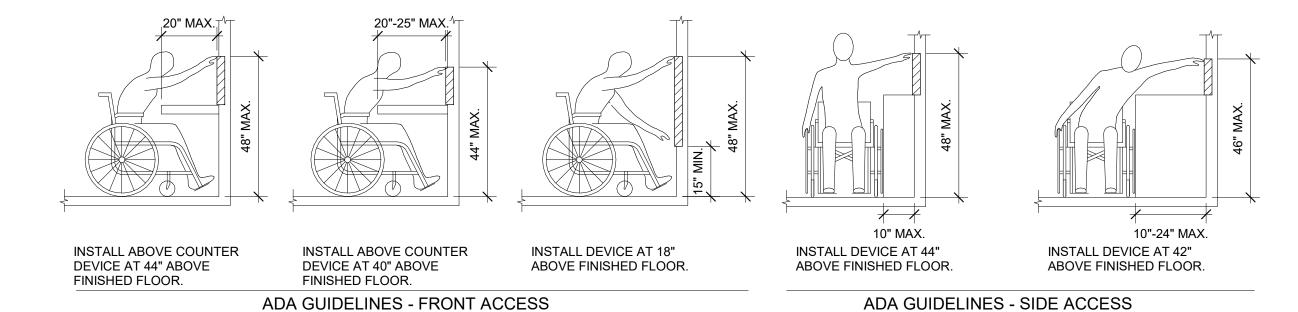
P2.01

P7.00

16. PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT. 17. DO NOT SUPPORT EQUIPMENT, PIPING, OR DUCTWORK FROM METAL DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE

PLUMBING SHEET INDEX

GENERAL NOTES, LEGEND AND DRAWING LIST PLUMBING FIXTURE SCHEDULE DEMOLITION SITE PLAN PLUMBING SITE PLAN ENLARGED PLUMBING SITE PLAN PLUMBING DETAILS



ADA STANDARDS FOR ACCESSIBLE DESIGN

IDENTIFICATION STAM DIV. OF THE STATE ARCHITEC APP. 04-117971 INC: REVIEWED FOR SS V DIFLS V ACS V DATE:



ARCHITECTURE ENGINEERING INTERIORS LANDSCAPE ARCHITECTURE PLANNING

949-260-1190 Fax LPADesignStudios.com

949-261-1001 Office

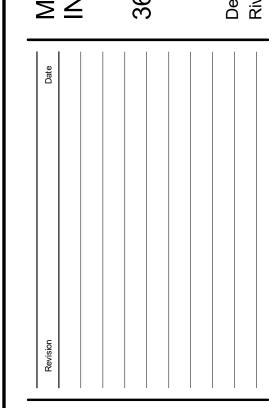
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	Submittal	50% CONSTRUCTION DOCUMENTS (INTERNAL)	95% CONSTRUCTION DOCUMENTS	100% CONSTRUCTION DOCUMENTS - DSA	DSA SUBMITTAL_V2			
	Date	11/19/18	12/04/18	12/19/2018	02/26/19			

Checked by GENERAL NOTES, **LEGEND AND**

02/26/2019

P0.01

DRAWING LIST