City Engineer

CITY OF ROHNERT PARK

1170 GOLF COURSE DRIVE, ROHNERT PARK CA 94928

GENERAL NOTES

THESE DRAWINGS DO NOT CONTAIN THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY

- LOCATIONS OF ALL UTILITIES SHOWN ARE APPROXIMATE AND CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE EXECUTION OF THIS WORK.
- THESE DOCUMENTS AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, ARE THE WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF WLC ARCHITECTS, INC.
- THE WORK SHOWN ON THESE DRAWINGS AS EXISTING CONDITIONS WAS PREPARED FROM INFORMATION FURNISHED BY THE OWNER WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, WLC ARCHITECTS, INC. IS NOT RESPONSIBLE FOR THE ACCURACY OR ADEQUACY OF ANY WORK SHOWN AS EXISTING NOR IS WLC ARCHITECTS, INC. RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO THESE DRAWINGS AS A
- EACH BIDDER SHALL POSSESS AT THE TIME OF BID A CLASS B OR THE APPROPRIATE CLASS C CONTRACTOR'S LICENSE PURSUANT TO PUBLIC CONTRACT CODE SECTION 3300 AND BUSINESS AND PROFESSIONS CODE SECTION 7028.15. THE SUCCESSFUL BIDDER MUST MAINTAIN THE LICENSE THROUGHOUT THE DURATION OF THIS CONTRACT.

FIRE SAFETY DURING CONSTRUCTION

- GENERAL: FIRE SAFETY DURING CONSTRUCTION SHALL COMPLY WITH CALIFORNIA FIRE CODE (CFC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 9, CHAPTER 5 AND CHAPTER 33.
- ACCESS ROADS: FIRE DEPARTMENT ACCESS ROADS SHALL BE ESTABLISHED AND MAINTAINED IN ACCORDANCE WITH CHAPTER 5, SECTION 501.4 AND CHAPTER 33, SECTION 3310.
- WATER SUPPLY: WATER MAINS AND HYDRANTS SHALL BE OPERATIONAL IN ACCORDANCE WITH CHAPTER 5, SECTION 501.4 AND CHAPTER 33, SECTION 3312.
- BUILDING ACCESS: ACCESS TO BUILDINGS FOR THE PURPOSE OF FIREFIGHTING SHALL BE PROVIDED. CONSTRUCTION MATERIAL SHALL NOT BLOCK ACCESS TO BUILDINGS. HYDRANTS OR FIRE APPLIANCES.
- ALTERATIONS OF BUILDINGS: SHALL COMPLY WITH APPLICABLE
- DEMOLITION OF BUILDINGS: SHALL COMPLY APPLICABLE PROVISIONS OF CHAPTER 33
- PENETRATIONS TO FIRE RATED MATERIALS OR ASSEMBLIES SHALL BE RESTORED TO EQUAL RATING. FIRE STOP SYSTEMS AS LISTED BY UNDERWRITERS LABORATORIES SHALL BE INSTALLED PER FIRE RESISTANCE DIRECTORY. FIRE STOP SYSTEMS SHALL BE AS SPECIFIED.
- NONRESIDENTIAL ENERGY STANDARDS COMPLIANCE STATEMENT (TITLE 24, PART 6):

THE DESIGN INDICATED HEREIN COMPLIES WITH THE REQUIREMENTS OF THE ENERGY CONSERVATION STANDARDS OF TITLE 24, PART 6, CALIFORNIA CODE OF REGULATIONS. THE PROPOSED BUILDING(S) WILL BE IN COMPLIANCE WITH THE ENERGY CONSERVATION STANDARDS PROVIDED IT (THEY) IS (ARE) BUILT ACCORDING TO THESE DRAWINGS AND SPECIFICATIONS AND PROVIDED ANY FUTURE IMPROVEMENTS ARE COMPLETED ACCORDING TO THE REQUIREMENTS OF TITLE 24, PART 6, CALIFORNIA CODE OF REGULATIONS. THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED TO INCLUDE ALL SIGNIFICANT ENERGY CONSERVATION FEATURES REQUIRED FOR COMPLIANCE WITH THE STANDARDS. BUILDING AREAS THAT ARE UNCONDITIONED AND/OR NOT SUBJECT TO THE STANDARDS ARE INDICATED ON THE PLANS.

ENVELOPE MANDATORY MEASURES:

- INSTALLED INSULATING MATERIALS SHALL HAVE BEEN CERTIFIED BY THE MANUFACTURER TO COMPLY WITH THE CALIFORNIA QUALITY STANDARDS FOR INSULATING MATERIAL.
- ALL INSULATING MATERIALS SHALL BE INSTALLED IN COMPLIANCE WITH THE FLAME SPREAD RATING AND SMOKE DENSITY REQUIREMENTS OF TITLE 24, PART 2, CALIFORNIA CODE OF REGULATIONS, SECTIONS 720 AND 2603.
- ALL EXTERIOR JOINTS AND OPENINGS IN THE BUILDING ENVELOPE THAT ARE POTENTIAL AND OBSERVABLE SOURCES OF AIR LEAKAGE SHALL BE CAULKED, GASKETED, WEATHERSTRIPPED OR OTHERWISE SEALED.
- SITE CONSTRUCTED DOORS, WINDOWS, AND SKYLIGHTS SHALL BE CAULKED BETWEEN THE UNIT AND THE BUILDING. AND SHALL BE WEATHERSTRIPPED (EXCEPT FOR UNFRAMED GLASS DOORS AND FIRE DOORS).

- MANUFACTURED DOORS AND WINDOWS INSTALLED SHALL HAVE AIR INFILTRATION RATES CERTIFIED BY THE MANUFACTURER IN ACCORDANCE WITH TITLE 24, PART 6, CALIFORNIA CODE OF **REGULATIONS. SECTION 110.6**
- G. DEMISING WALL INSULATION SHALL BE INSTALLED IN ALL

OPAQUE PORTIONS OF FRAMED WALLS (EXCEPT DOORS).

- ALL WORK SHOWN ON THESE DRAWINGS SHALL COMPLY WITH THE REQUIREMENTS OF CALIFORNIA BUILDING CODE (CBC).
- CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR ARCHITECT SUPPLEMENTAL INSTRUCTION APPROVED BY THE CITY OF ROHNERT PARK BUILDING DEPARTMENT
- GRADING PLANS. DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIROMENTAL HEALTH CONCIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
- DRINKING WATER SHALL COMPLY WITH ALL LOCAL HEALTH DEPARTMENT
- THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE COMPLIANCE WITH THE REQUIREMENTS OF CALIFORNIA BUILDING CODE. SHOULD ANY CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT IDENTIFIED BY THE CONTRACT DOCUMENTS WHEREIN THE FINAL WORK WOULD NOT COMPLY WITH THE REQUIREMENTS OF CALIFORNIA BUILDING CODE, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND THE ARCHITECT OF THE CONDITION IN WRITING, NECESSARY INFORMATION REQUIRED TO CORRECT THE CONDITIONS ENCOUNTERED WILL BE ISSUED BY THE ARCHITECT. A CHANGE ORDER MAY BE ISSUED TO ADJUST THE CONTRACT SUM OR TIME COMMENSURATE WITH THE AMOUNT OF ADDITIONAL WORK REQUIRED IF ANY. AN ARCHITECT'S SUPPLEMENTAL INSTRUCTION SHALL BE APPROVED BY THE CITY OF ROHNERT PARK BUILDING DEPARTMENT PRIOR TO PROCEEDING WITH THE WORK REQUIRED BY THE CHANGE ORDER.
- 15. ALL SLOPE AND CROSS SLOPE OF ACCESSIBLE ROUTE PAVING INDICATED ON THESE DRAWINGS WAS DESIGNED IN COMPLIANCE WITH THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND THE ACCESSIBILITY STANDARDS OF THE CALIFORNIA BUILDING CODE, (CBC) TITLE 24, PART 2, CHAPTER 11B OF THE CALIFORNIA CODE OF REGULATIONS (CCR). STRICT EXECUTION OF THE SLOPE AND CROSS SLOPE OF ACCESSIBLE ROUTE PAVING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. SHOULD A CONDITION PRESENT ITSELF THAT WOULD RESULT IN AN INSTALLATION OTHER THAN WHAT IS INDICATED IN THESE DRAWINGS, WLC ARCHITECTS, INC. SHALL BE NOTIFIED IN WRITING AND A COMPLIANT RESOLUTION WILL BE FORMULATED.
- CONTRACTOR TO OBTAIN PERMIT FOR INDUSTRIAL WASTE (SR), FEES & FILING OF APPLICATION ARE THE RESPONSIBILITIES BY THE CONTRACTOR.
- ALL USA MARKINGS CREATED WITHIN PROJECT LIMITS SHALL BE REMOVED BY CONTRACTOR PRIOR TO NOTICE OF COMPLETION.
- ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION SHALL CONFORM TO THE CURRENT CITY OF ROHNERT PARK DESIGN AND CONSTRUCTION STANDARDS AND CONSTRUCTION SPECIFICATION FOR PUBLIC
- ALL BACKFLOW ASSEMBLIES MUST BE LISTED ON THE LATEST REVISION OF THE APPROVED USC FOUNDATION FOR CROSS-CONNECTION AND HYDRAULIC RESEARCH LIST.
- THE CONTRACTOR SHALL OBTAIN A DE-WATERING PERMIT FROM THE NORTH COAST REGIONAL WATER WATER CONTROL BOARD FOR DE-WATERING OPERATIONS THAT ARE USED TO MANAGE THE REMOVAL OF GROUND WATER FROM EXCAVATIONS AND THEIR DISCHARGE TO THE WATERS OF THE STATE OR THE STORM DRAIN SYSTEM. APPROVAL MUST BE OBTAINED FROM THE CITY OF SANTA ROSA ENVIRONMENTAL COMPLIANCE DIVISION PRIOR TO DISCHARGING GROUNDWATER TO THE
- TEMPORARY STOCKPILES MUST BE REMOVED BY COMPLETION OF GRADING ACTIVITIES UNLESS A SEPARATE TEMPORARY USE PERMIT AND GRADING PERMIT IS OBTAINED FOR THE STOCKPILE.
- ALL UNDERGROUND IMPROVEMENTS INCLUDING SEWER LINES. WATER LINES. STORM DRAINS. PUBLIC UTILITY FACILITIES. AND SERVICES SHALL BE INSTALLED, TESTED, AND ACCEPTED BY THE UTILITIES AND PUBLIC WORKS DEPARTMENT PRIOR TO PAVING. TRENCH PAVING FOR ALL UTILITIES SHALL BE COORDINATED AND INSTALLED AT THE SAME TIME.
- 23. RECORD DRAWINGS SHALL BE PROVIDED TO THE CITY UPON COMPLETION OF PROJECT AND PRIOR TO FINAL ACCEPTANCE.
- 24. THE CONTRACTOR SHALL KEEP THE WORK SITE, STAGING AREAS AND OTHER AREAS USED BY IT IN A NEAT AND CLEAN CONDITION, AND FREE FROM ANY ACCUMULATION OF TRASH. THE CONTRACTOR SHALL DISPOSE OF ALL TRASH, RUBBISH, AND WASTE MATERIALS OF ANY KIND GENERATED BY THE CONTRACTOR. SUBCONTRACTOR OR ANY COMPANY HIRED BY THE CONTRACTOR ON A DAILY BASIS. THE CONTRACTOR SHALL ALSO KEEP HAUL ROADS FREE FROM DIRT, RUBBISH, AND UNNECESSARY OBSTRUCTIONS RESULTING FROM SITE OPERATION. DISPOSAL OF ALL TRASH, RUBBISH, AND DEBRIS MATERIALS SHALL BE IN A COVERED WASTE RECEPTACLE OR HAULED OFF SITE. IN ACCORDANCE WITH LOCAL CODES AND ORDINANCES GOVERNING LOCATIONS AND DISPOSAL, AND IN CONFORMANCE WITH APPLICABLE LAWS AND REGULATIONS. WASTE RECEPTACLES SHALL BE COVERED AT THE END OF EVERY DAY AND DURING RAIN EVENTS.
- 25. THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN ALL APPLICABLE BMPS LISTED IN THE EROSION CONTROL AND/ OR STORM WATER POLLUTION PREVENTION PLAN.

GOVERNING AGENCY

SONOMA COUNTY DEPARTMENT OF HEALTH SERVICES 625 5TH ST SANTA ROSA, CA 95404

CITY OF ROHNERT PARK BUILDING DEPARTMENT 130 AVRAM AVE. **ROHNERT PARK, CA 94298**

TEL: 707 - 565 - 6565

TEL: 707 - 588 - 2240

PROJECT INFORMATION

OCCUPANCY # OF FLRS | CONST. TYPE | FIRE SPRINKLERED N/A

(E) HONEY BEE POOL (SEE CODE ANALYSIS, DRAWING A0.5)

TOILETS CONCESSION 143-280-42 & 62 A.P. NO. ZONING SEISMIC ZONE | 4

26. CONTRACTOR IS RESPONSIBLE FOR PRESERVATION AND/OR PERPETUATION OF ALL EXISTING SURVEY MONUMENTS (CURB TAGS, IRON PIPES, CENTERLINE WELL DISKS, ETC.). IF THE CONTRACTOR SUSPECTS THAT WORK WILL BE CONDUCTED IN AN AREA WHICH MAY RESULT IN THE DISTURBANCE OF SURVEY MONUMENTS, THE CONTRACTOR SHALL RETAIN THE SERVICES OF A LICENSED PROFESSIONAL AUTHORIZED TO PRACTICE LAND SURVEYING TO LOCATE SAID MONUMENTS PRIOR TO DISTURBANCE, RE-ESTABLISH MONUMENTS WHICH HAVE BEEN DISTURBED AS A RESULT OF CONSTRUCTION AND FILE THE APPROPRIATE DOCUMENTATION WITH THE COUNTY ONCE THE MONUMENTS ARE REST. THE CONTRACTOR SHALL PROVIDE THE CITY WITH A MONUMENT CERTIFICATION LETTER FROM THE ENGINEER/SURVEYORS STATING THAT THE EXISTING MONUMENTS HAVE BEEN IDENTIFIED AND LOCATED PRIOR TO REMOVAL.

- CONSTRUCTION HOURS SHALL BE LIMITED FROM 8 AM TO 6 PM MONDAY THROUGH FRIDAY, EXCLUDING HOLIDAYS. THIS RESTRICTIONS INCLUDES THE START UP OF ANY MOTORIZED EQUIPMENT. ALL CONTRACTOR' EQUIPMENT SHALL BE PROPERLY MUFFLED AND SHALL BE SHUT DOWN WHEN NOT IN USE.
- 28. A NOTICE OF INTENT TO COMPLY WITH THE TERMS OF THE GENERAL PERMIT TO DISCHARGE STORM WATER ASSOCIATED WITH CONSTRUCTION ACTIVITY MUST BE FILED WITH THE NORTH COAST REGIONAL WATER QUALITY CONTROL BOARD PRIOR TO THE ISSUANCE OF ANY GRADING PERMIT (CALL (707)576-2220 FOR INFORMATION).
- 29. DUST CONTROL SHALL BE PROVIDED BY CONTRACTOR DURING ALL PHASES OF CONSTRUCTION.
- DRAINAGE FROM UPSTREAM PROPERTIES SHALL NOT BE BLOCKED BY GRADING OR CONSTRUCTION OF IMPROVEMENTS.
- 31. DEVELOPMENT MUST CONFORM TO 40 CFR (CODE OF FEDERAL REGULATIONS) PARTS 122, 123, AND 124 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT APPLICATIONS FOR STORM WATER DISCHARGE. PROJECT MUST ALSO CONFORM WITH ANY DESIGN AND CONSTRUCTION POLICIES ADOPTED BY THE CITY TO CONFORM WITH THESE REGULATIONS THESE ACTIVITIES REQUIRE OBTAINING AN NPDES PERMIT FROM THE STATE WATER RESOURCE CONTROL BOARD TO PROJECTS WHICH QUALIFY, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITY.
- 32. PRIOR TO ANY GRADING OPERATION THE GRADING CONTRACTOR AND THE PROJECT GEOTECHNICAL ENGINEER SHALL JOINTLY SEARCH THE SITE FOR EXISTING WELLS AND SEPTIC SYSTEMS. PROJECT SHALL NOTIFY THE CITY OF
- 33. ANY EXISTING UTILITIES THAT WILL NOT BE USED OR ARE DISCOVERED ONSITE MUST BE ABANDONED AND MUST BE SHOWN ON THE IMPROVEMENT PLANS WITH APPROPRIATE NOTATIONS, PER CITY STANDARD. LATERALS MUST BE ABANDONED TO THE MAIN.
- WHERE THE STREET SURFACE IS LESS THAN 5 YEARS OLD, INSTALLATION OF UTILITIES OTHER THAN OPEN CUTTING SHALL BE REQUIRED.
- 37. THE CONTRACTOR SHALL KEEP THE SWPPP DOCUMENTS ON SITE AT ALL TIMES DURING THE PROJECT.
- 38. EXISTING SEWER LATERALS SHALL BE INSPECTED AND TESTED AS REQUIRED IN THE MUNICIPAL CODE, CONDITIONS OF APPROVAL, OR AS DIRECTED BY THE CITY ENGINEER. SEWER LATERALS WHICH FALL TO MEET MINIMUM STANDARDS OF GREATER THAN 5 YEARS OLD SHALL BE REPAIRED OR

GOVERNING CODES

2019 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE 2019 CALIFORNIA BUILDING CODE (CBC) 2019 CALIFORNIA ELECTRICAL CODE (CEC) 2019 CALIFORNIA MECHANICAL CODE (CMC)

2019 CALIFORNIA PLUMBING CODE (CPC) 2019 CALIFORNIA ENERGY CODE 2019 CALIFORNIA FIRE CODE (CFC)

2019 CALIFORNIA REFERENCED STANDARDS CODE

2010 AMERICANS WITH DISABILITY ACT (ADA) STANDARDS FOR ACCESSIBLE DESIGN (ADAS)

(2018 INTERNATIONAL FIRE CODE (IFC) W/ CALIFORNIA AMENDMENTS)

APPLICABLE NFPA . UL AND ICC STANDARDS

- DRY CHEMICAL EXTINGUISHING SYSTEMS, 2017 EDITION WET CHEMICAL SYSTEMS, 2017 EDITION NATIONAL FIRE ALARM CODE, 2016 EDITION

 FIRE DOORS AND OTHER OPENING PROTECTIVES, 2016 EDITION - STANDARD FOR SMOKE CONTROL SYSTEMS, 2015 EDITION CRITICAL RADIANT FLUX OF FLOOR COVERINGS, 2015 EDITION CLEAN AGENT FIRE EXTINGUISHING SYSTEMS, 2015 EDITION - ICC STANDARDS FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS, 2017 EDITION - FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR

AREAS, 2005 EDITION W/ REVISIONS THRU 2014 - AUDIBLE SIGNAL APPLIANCES, 2003 EDITION - HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS, 1999 EDITION W/ REVISIONS THRU JULY 30, 2005

PROTECTION OF COMMERCIAL RESTAURANT COOKING

NOTE: ALL NFPA STANDARDS AS LISTED ARE TO CONFORM TO THE EDITION AS LISTED WITH THE LATEST CALIFORNIA AMENDMENTS. REFERENCE THE 2019 CBC, TITLE 24, PART 2 - CHAPTER 35 FOR ADDITIONAL APPLICABLE NFPA, UL. STANDARDS AND ANY CALIFORNIA AMENDMENTS TO NFPA STANDARDS.

PROJECT TEAM

HONEYBEE POOL 1170 GOLF COURSE DR **ROHNERT PARK, CA 94928** PHONE: 707-586-1413

OWNER CITY OF ROHNERT PARK

PROJECT ADDRESS

6750 COMMERCE BLVD ROHNERT PARK, CA 94928

PHONE: 707-795-2411 FAX: 707-588-3333

ARCHITECT WLC ARCHITECTS, INC.

2600 TENTH STREET, SUITE 500 BERKELEY, CA 94710 PHONE: 510-450-1999

FAX: 510-450-2525

CIVIL ENGINEER

260 SHERIDAN AVE, SUITE 150 PALO ALTO CA 94303 PHONE: 650-617-5930

(2018 INTERNATIONAL BUILDING CODE (IBC) W/ CA AMENDMENTS)

(2018 UNIFORM MECHANICAL CODE (UMC) W/ CA AMENDMENTS)

1990 STATE FIRE MARSHAL REGULATIONS (AS AMENDED TO DATE)

(2018 UNIFORM PLUMBING CODE (UPC) W/ CA AMENDMENTS)

(2017 NATIONAL ELECTRIC CODE W/ CA AMENDMENTS)

2019 CALIFORNIA GREEN CODE

CITY OF ROHNERT PARK MUNICIPAL CODE

STRUCTURAL ENGINEER

BASE DESIGN 582 MARKET ST, SUITE 1402 SAN FRANCISCO, CA 94104 PHONE: 415-466-2997

MECHANICAL ENGINEER

OPTIMUM ENERGY DESIGN INC. 5515 DOYLE STREET, SUITE 4 EMERYVILLE, CA 94608

PHONE: 510-837-9182 FAX:

PLUMBING ENGINEER

FAX:

FAX:

OPTIMUM ENERGY DESIGN INC. 5515 DOYLE STREET, SUITE 4 EMERYVILLE, CA 94608 PHONE: 510-837-9182

ELECTRICAL ENGINEER

5515 DOYLE STREET, SUITE 4 EMERYVILLE, CA 94608 PHONE: 510-837-9182

SCOPE OF WORK DESCRIPTION

THE SCOPE OF THE WORK AS STATED BELOW IS FOR CITY PLAN REVIEW PURPOSES ONLY AND DOES NOT CONSTITUTE A DETAILED AND FULL EXPLANATION OF THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

RENOVATION OF THE EXISTING HONEYBEE POOL, WORK INCLUDES BUT NOT LIMITED TO THE FOLLOWING: POOL PLASTER REFINISHING, ADA ACCESS TO POOL STAIRS, POOL DECK CRACKING AND SPALLING REPAIRS, CHEMICAL CONTROLLER FLOW INTERCONNECT REMOVAL OF EXISTING WADING POOL AND BACK FILL FINISHED WITH CONCRETE PAVING, REPLACE PAIR GATES, PATH OF TRAVEL REPAIR FROM THE ACCESSIBLE PARKING STALLS TO THE SIDEWALK APPROACH TO THE RESTROOMS AND CONCESSION, REMOVE AND REPLACE THE SCREENS OUT SIDE BOTH RESTROOMS, TO MAINTAIN ADA CLEARANCE APPROACH TO THE RESTROOMS, REPLACE SIDINGS STUDS AND FASCIA DRY ROT REPAIRS, EXTERIOR PAINT, REPLACE INTERIOR WOOD STUD FRAMING DUE TO ADA NEW PLUMBING FIXTURE CONFIGURATION, REPLACE SINK AND COUNTERTOP, REPLACE DOORS AND DOOR FRAMES, INTERIOR PAINT, AND INSTALLATION OF EPOXY FLOOR, FIBER REINFORCED PANELS, PORCELAIN WALL TILES, TOILET PARTITIONS, REPLACE CONCRETE SLAB AS REQUIRED FOR NEW SEWER AND WATER CONNECTION TO PLUMBING FIXTURES AT BOTH RESTROOMS, INSTALL PLASTIC LAMINATED COUNTER AT THE CONCESSION BUILDING, INSTALL SLIDING WINDOW IN FRONT OF THE STEEL ROLL-UP WINDOW, REMOVE SINK AND COUNTER, REPLACE SINK WITH ADA COMPLAINT SINK AND BASE CABINET, UPPER CABINETS, REPLACE DUTCH DOOR, ELECTRICAL, MECHANICAL EXHAUST FAN AND PLUMBING UPGRADES AT RESTROOMS AND CONCESSION BUILDING, MOVE ADA LIFT TO THE OTHER SIDE BY THE LIFE GUARD STAND, AND

VICINITY MAP

REPLACE PERIMETER FENCE, POST & GATES.





BERKELEY 510-450-1999 P

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STATE OF THE PARTY LOREN GACHEN C-37926 **lu lut:** 12/31/23 THE OF CALLE

CONSULTANT

3/2023 CONFORMED SET PPROVED FOR CONSTRUCITON

VANESSA GARRETT P.E. CE84141

	REV	19101	A SCHEDULE
NO	DATE	BY	DESCRIPTION
Λ	11/03/2022		AGENCY PLAN REVIEW
<u>/2</u> \	12/02/2022		AGENCY PLAN REVIEW

CHECKED: **DATE**: 02/25/2022 | **SCALE**: PROJECT NUMBER: 2010200

> **GENERAL NOTES** & PROJECT DIRECTORY

DRAWING NUMBER:

			DRAWIN	IG IND	EX	DRAWING INDEX CODE			
RAWING REF NO	DESCRIPTION	DRAWING REF NO	DESCRIPTION	DRAWING REF NO	REF NO DESCRIPTION	DRAWING DISCIPLINE PREFIX INDEX			
A0.1	GENERAL GENERAL NOTES / PROJECT DIRECTORY	S1.0	STRUCTURAL SYMBOLS & ABBREVIATIONS	DP-1	AQUATIC SWIMMING POOL/ WADING POOL DEMOLITION PLAN	A. ARCHITECTURAL			
A0.2	DRAWING INDEX	S1.1	GENERAL NOTES	SP-1	SWIMMING POOL LAYOUT PLAN	C. CIVIL D. INTERIOR DESIGN / FURNITURE			
A0.3	DRAFTING SYMBOLS AND MATERIAL INDICATIONS	S2.0	FOUNDATION & ROOF PLANS	SP-2	SWIMMING POOL SECTIONS	E. ELECTRICAL			
A0.4	ARCHITECTURAL DRAWING ABBREVIATIONS	S5.0	TYPICAL CONCRETE DETAILS	SP-3	DETAILS	F. FIRE PROTECTION / SPRINKLER SYSTEM G. GRAPHICS			
A0.5	CODE ANALYSIS	S5.1	CONCRETE DETAILS	SP-4	DETAILS	H. HAZARDOUS MATERIALS			
A0.6	SITE ACCESSIBILITY PLAN	S8.0	WOOD DETAILS			K. DIETARY / FOOD SERVICE L. LANDSCAPING			
A0.7	FENCING PLAN	S8.1	FRAMING DETAILS			M. MECHANICAL			
	ADOLUTEOTUDAL					P. PLUMBING S. STRUCTURAL			
A1.0	ARCHITECTURAL SITE PLAN		MECHANICAL		CA GREEN BUILDING STANDARDS CODE 🛆	T. TELECOMMUNICATIONS			
A2.1	DEMO & FLOOR PLAN	M0.1	MECHANICAL GENERAL NOTES AND LEGEND 2	GBS-01	CA GREEN BUILDING STANDARDS CODE				
A2.2	SLAB PLAN	M2.0	MECHANICAL FLOOR PLAN - DEMO & NEW	GBS-02	CA GREEN BUILDING STANDARDS CODE	DRAWING GROUP PREFIX INDEX			
A3.1	DEMO RCP AND NEW RCP PLAN	M3.0	MECHANICAL ROOF PLAN	GBS-03	CA GREEN BUILDING STANDARDS CODE				
A4.1	EXISITING ROOF PLAN AND NEW ROOF PLAN	M6.1	MECHANICAL DETAILS			0. GENERAL INFORMATION			
A5.1	EXTERIOR ELEVATIONS					1. SITE PLANS 2. FLOOR PLANS			
A7.1	INTERIOR ELEVATIONS					3. REFLECTED CEILING PLANS			
A7.2	INTERIOR ELEVATIONS POON FINISH SCHEDULE AND DOOR AND EDAME SCHEDULE	D0.1	PLUMBING PLUMBING NOTES AND LECEND			4. ROOF PLANS 5. EXTERIOR ELEVATIONS / SECTIONS			
A8.1	ROOM FINISH SCHEDULE AND DOOR AND FRAME SCHEDULE	P0.1 PD2.0	PLUMBING NOTES AND LEGEND PLUMBING DEMO FLOOR PLANS			6. ENLARGED FLOOR PLANS			
		PD2.0	PLUMBING PROPOSED FLOOR PLANS			7. INTERIOR ELEVATIONS 8. CIRCULATION / STAIRS / ELEVATORS			
	DETAILS	P6.0	PLUMBING DETAILS			9. 3D REPRESENTATIONS			
2.1	SITE DETAILS								
6.1	CASEWORK & MISCELLANEOUS DETAILS		ELECTRICAL			DRAWING NUMBER CODE			
6.2	CASEWORK & MISCELLANEOUS DETAILS	E0.1	ELECTRICAL GENERAL NOTES & LEGENDS						
7.1	THERMAL AND MOISTURE PROTECTION	E2.0	ELECTRICAL FLOOR PLAN - DEMO & REMODEL			AH2.2			
8.1	WINDOW / DOOR DETAILS 1	E2.1	LIGHT FLOOR PLAN - DEMO & REMODEL						
9.3	SUSPENDED CEILING DETAILS SPECIALTY DETAILS AND SCHEDULES					DRAWING NUMBER			
10.1	SPECIALTY DETAILS AND SCHEDULES SPECIALTY DETAILS AND SCHEDULES					GROUP PREFIX INDEX			
10.4	O. LOWER DETAILOURING OUT ILDULLO								
						BUILDING IDENTITY			
	CIVIL					DISCIPLINE PREFIX INDEX			
C1.0	COVER SHEET								
C1.1	NOTES								
C2.0	DEMOLITION PLAN					DISCIPLINE OR DRAWING GROUPS NOT INDICATED IN DRAWING INDEX ARE NOT APPLICABLE OR ARE INCLUDED IN THE 16 DIVISIONAL GROUPING OF THE DETAIL			
C3.0	GRADING AND DRAINAGE PLAN					DRAWINGS. BUILDING IDENTITY DESIGNATIONS MAY OR MAY NOT BE UTILIZED. REFER TO KEY PLANS AND DRAWING INDEX FOR APPLICATION OF BUILDING			
C3.1	PAVEMENT PLAN					DESIGNATIONS. THE DISCIPLINE AND DRAWING GROUPS ARE INTEGRAL WITH THE DETAIL DRAWINGS AND ARE NOT COMPLETE IN THEMSELVES. IN CASE OF			
C4.0 C5.0	UTILITY PLAN EROSION CONTROL PLAN					DISCREPANCY BETWEEN THE INDEX AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.			
C5.1	EROSION CONTROL DETAILS					GOVERNA.			
C6.0	DETAILS					ARCHITECTURAL DETAIL DRAWING PREFIX INDI			
(C6.1	DETAILS)2					7 (TOTAL DE 17 (LE DI VIVINO I IVEI IX INDI			
						DIVISION 1 - GENERAL REQUIREMENTS DIVISION 2 - SITE WORK			
						DIVISION 3 - CONCRETE			
						DIVISION 4 - MASONRY DIVISION 5 - METALS			
						DIVISION 6 - WOOD AND PLASTICS DIVISION 7 - THERMAL AND MOISTURE PROTECTION			
						DIVISION 8 - DOORS AND WINDOWS			
						DIVISION 9 - FINISHES DIVISION 10 - SPECIALTIES			
						DIVISION 11 - EQUIPMENT			
						DIVISION 12 - FURNISHINGS DIVISION 13 - SPECIAL CONSTRUCTION			
						DIVISION 14 - CONVEYING SYSTEMS			
						DIVISION 15 - MECHANICAL- NOT USED DIVISION 16 - ELECTRICAL- NOT USED			
						DETAIL DRAWING CODE			
						8.4			
						DRAWING NUMBER			
						DIVISION PREFIX INDEX			
						THE DIVISION PREFIX NUMBERS ARE THOSE IDENTIFIED BY THE 16 DIVISION			
						GROUPING SYSTEM OF MASTER FORMAT AS PUBLISHED BY THE CONSTRUCTION SPECIFICATION INSTITUTE (CSI) AND SHALL NOT BE SOLEY REPRESENTATIVE OF			
						REQUIREMENTS FOR ANY ONE DIVISION. THOSE DIVISIONS NOTED AS BEING NOT USED			
					l !	OR OMITTED ARE NOT APPLICARLE OR ARE INCLLIDED LINDED DISCIPLINE DRAWINGS			
						OR OMITTED ARE NOT APPLICABLE OR ARE INCLUDED UNDER DISCIPLINE DRAWINGS. IN CASE OF DISCREPANCY BETWEEN THE INDEX AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.			



HONEYBEE POOL RENOVATION CITY OF ROHNERT PARK 1170 GOLF COURSE DRIVE ROHNERT PARK, CA 94928

LOREN GACHEN C-37926 In the 12/31/23

CONSULTANT

VANESSA GARRETT P.E. CE84141 CITY ENGINEER

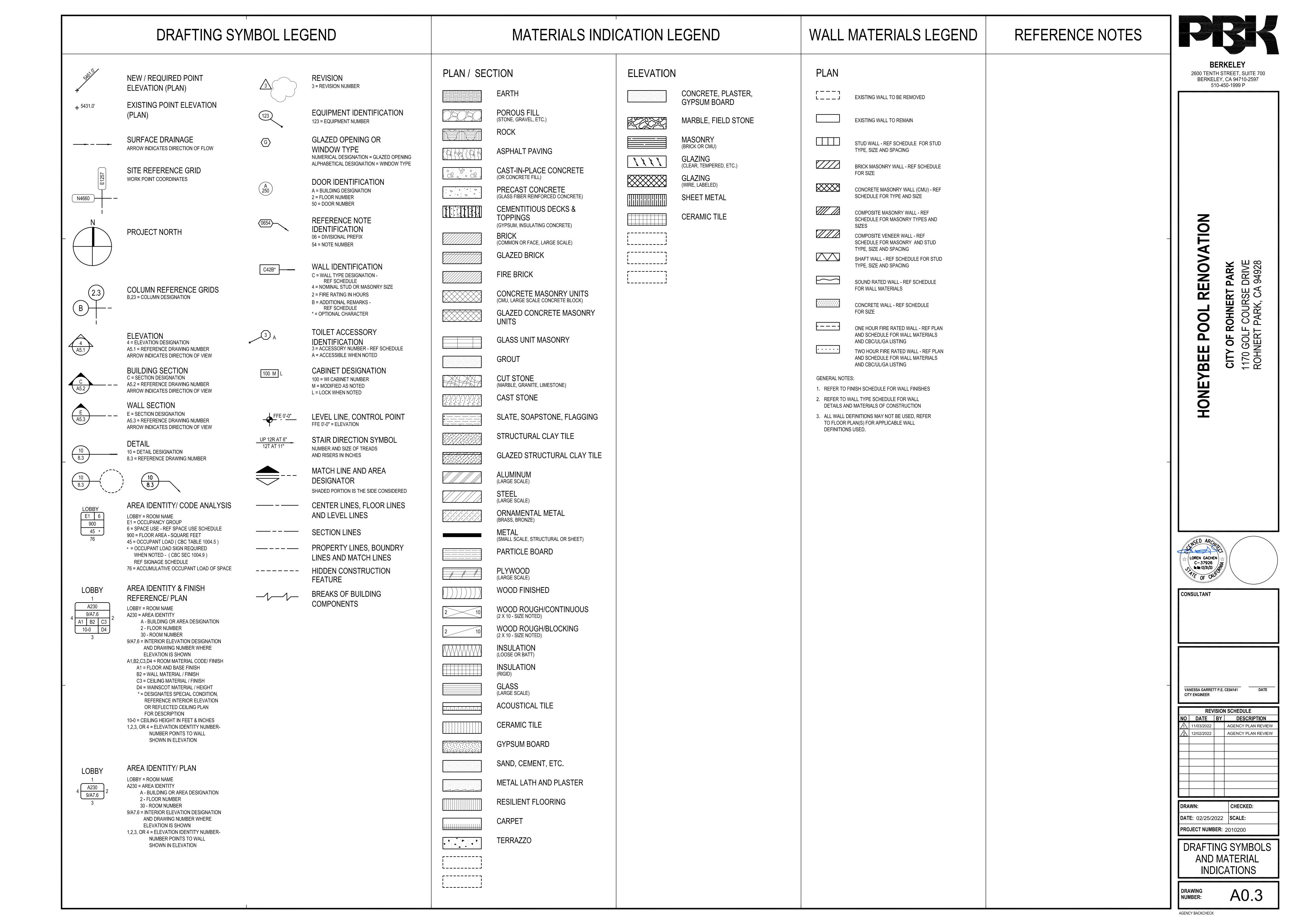
REVISION SCHEDULE DATE BY DESCRIPTION

11/03/2022 AGENCY PLAN REVIEW AGENCY PLAN REVIEW

RAWN: WLC CHECKED: WLC ATE: 02/25/2022 | SCALE: NONE | ROJECT NUMBER: 2010200

DRAWING INDEX

A0.2



RCHITECTURAL	DRAWING	ABBREVIATIONS	

SYMBOLS		OUET		2		MTD	MODTAD	5511
& _	AND ANGLE	CUFT CUIN	CUBIC FOOT CUBIC INCH	GALV GB	GALVANIZED GRAB BAR	MTR MULL	MORTAR MULLION	RFH RH
@ Cl	AT CENTERLINE	CUST CUYD	CUSTODIAN CUBIC YARD	GFRC	GLASS FIBER REINFORCED	MVBL MWP	MOVABLE MEMBRANE WATER PROOFING	RHMS
<u></u>	CHANNEL		CODIC TAND	— GI	CONCRETE GALVANIZED IRON	N	NORTH	RHR
Ø (E)	DIAMETER OR ROUND EXISTING	D	DRAIN DOUBLE ACTING	GL GLU LAM	GLASS GLUE LAMINATED	NA NAT	NOT APPLICABLE NATURAL	RHWS RL
(N)	NEW	DA DBL	DOUBLEACTING DOUBLE	GLZ	GLAZING	NCOMBL NE	NONCOMBUSTIBLE NOT EXCEEDING	RLG
d <u> </u>	PENNY (NAILS) PERPENDICULAR	DEMO DEP	DEMOLISH, DEMOLITION DEPRESSED	GLZCMU	GLAZED CONCRETE MASONRY UNITS	NF	NEAR FACE	RM RND
PL #	PLATE POUND OR NUMBER	DEPT	DEPARTMENT	GND	GROUND	NIC NLB	NOT IN CONTRACT NON-LOAD BEARING	RO ROW
# 	FOUND OR NOWBER	DET DF	DETAIL DRINKING FOUNTAIN	GPC GR LN	GYPSUM PLASTER CEILING GRADE LINE	NM NO	NONMETALLIC NUMBER	RS
A/C	AIR CONDITIONING	DH DIA	DOUBLE HUNG DIAMETER	GR BM	GRADE BEAM	NOM	NOMINAL	RTF RTU
A/E AB	ARCHITECT/ENGINEER ANCHOR BOLT	DIAG	DIAGONAL	GR GRBD	GRADE, (ING) GARBAGE DISPOSER	NR NRC	NOISE REDUCTION NOISE REDUCTION COEFFICIENT	RV RVL
ABAN ABC	ABANDON AGGREGATE BASE COURSE	DIFF DIM	DIFFUSER DIMENSION	GSB GSS	GYPSUM SHEATHING BOARD GALVANIZED STEEL SHEET	NRCA	NATIONAL ROOFING CONTRACTORS ASSOCIATION	RVS
ABV	ABOVE ASPHALTIC CONCRETE	DISP DIV	DISPENSER DIVISION	GST	GLAZED STRUCTURAL TILE	NS	NEAR SIDE	RVT RWD
AC ACC	ACCESS(IBLE)	DMPF	DAMPPROOFING	GT GVL	GROUT GRAVEL	NTS ——————	NOT TO SCALE	RWL
ACST ACT	ACOUSTICAL ACOUSTICAL CEILING TILE	DMT DN	DEMOUNTABLE DOWN	GYP	GYPSUM	0/0	OUT TO OUT	 S
AD ADDM	AREA DRAIN ADDENDUM	DR DRB	DOOR DRAINBOARD	————— HB	HOSE BIBB	OA OBS	OVERALL OBSCURE	\$2\$ \$4\$
ADH	ADHESIVE	DRLV DS	DOOR LOUVER DOWNSPOUT	HC HD	HOLLOW CORE HEAVY DUTY	OC OD	ON CENTER(S) OUTSIDE DIAMETER	SA
ADJ ADJC	ADJUSTABLE ADJACENT	DSP	DRY STANDPIPE	HD JT	HEAD JOINT	OFCI	OWNER FURNISHED -	SALV SAT
AFF	ABOVE FINISHED FLOOR	DT DVTL	DRAIN TILE DOVETAIL	HDAS HDR	HEADED ANCHOR STUD HEADER	OFF	CONTRACTOR INSTALLED OFFICE	SB
AFG AGGR	ABOVE FINISHED GRADE AGGREGATE	DW DWG	DISHWASHER DRAWING	HDW	HARDWARE HARDWOOD	OFOI	OWNER FURNISHED - OWNER INSTALLED	SBSTR SC
AHU AL	AIR HANDLING UNIT ALUMINUM	DWL	DOWEL	HDWD HEX	HEXAGONAL	OFS	OUTSIDE FACE OF STUD	SCD SCHED
ALT	ALTERNATE	DWR	DRAWER	HGR —— HLDN	HANGER HOLD DOWN	OHMS OHWS	OVALHEAD MACHINE SCREW OVALHEAD WOOD SCREW	SCP
ANC APLD	ANCHOR, ANCHORAGE APPLIED	E	EAST	HM HMD	HOLLOW METAL HOLLOW METAL DOOR	OPH OPNG	OPPOSITE HAND OPENING	SCRN SD
APPRX ARCH	APPROXIMATE ARCHITECT(URAL)	EA EAR	EACH EXHAUST AIR REGISTER	HMDF	HOLLOW METAL DOOR	OPP	OPPOSITE	SDBL SECT
ASC	ABOVE SUSPENDED CEILING	EB EE	EXPANSION BOLT	HMF	AND FRAME HOLLOW METAL FRAME	OPQ OPR	OPAQUE OPERABLE	SGL SHR
ASPH ASSY	ASPHALT ASSEMBLY	EF	EACH END EACH FACE	HNDRL HORIZ	HANDRAIL HORIZONTAL	ORD OVFL	OVERFLOW ROOF DRAIN OVERFLOW	SHT
ASYM AWG	ASYMMETRICAL AMERICAN WIRE GAGE	EFS EHD	EXTERIOR FINISH SYSTEM ELECTRIC HAND DRYER	HPT	HIGH POINT	OVHD	OVERHEAD	SHTHG SHV
	/ WILL NO WY WINE CASE	EIFS	EXTERIOR INSULATION AND	HR HT	HOUR HEIGHT	PAR	PARALLEL	SIM
BC BD	BACK OF CURB BOARD	EJ	FINISH SYSTEM EXPANSION JOINT	HTG	HEATING	PAT	PATTERN	SKLT SLD
BITUM	BITUMINOUS	EL ELAST	ELEVATION ELASTOMERIC	HVAC	HEATING/VENTILATING/ AIR CONDITIONING	PB PBD	PANIC BAR PARTICLE BOARD	SLDG
BLDG BLK	BUILDING BLOCK	ELEC	ELECTRIC(AL)	HWH 	HOT WATER HEATER	PC PCC	PORTLAND CEMENT PRECAST CONCRETE	SLDR SLNT
BLKG BLW CLG	BLOCKING BELOW CEILING	ELEV EM	ELEVATOR EXPANDED METAL	ID	INSIDE DIAMETER	PCP	PORTLAND CEMENT PLASTER	SLV SMACNA
BLW FFLR	BELOW FINISH FLOOR	EMER EN	EMER EMERGENCY EDGE NAILING	INCL INSTL	INCLUDE(D), (ING) INSTALL	PED PERF	PEDESTAL PERFORATE(D)	
BLW BM	BELOW BENCH MARK	ENCL	ENCLOSE(URE)	INSUL	INSULATE(D), (ION)	PERIM PERP	PERIMETER \(\) PERPENDICULAR	SMLS
BN BOT	BOUNDARY NAILING BOTTOM	ENGR ENTR	ENGINEER ENTRANCE	INT INV	INTERIOR INVERT	PGBD	PEGBOARD	SND SNDINS
BRCG	BRACING	EP EQ	ELECTRICAL PANELBOARD EQUAL	IPS	IRON PIPE SIZE	PH PHS	PHASE PHILLIPS HEAD SCREW	SNDU
BRDG BRG	BRIDGING BEARING	EQUIP	EQUIPMENT	JAN	JANITOR	PI PIV	POINT OF INTERSECTION POST INDICATOR VALVE	SNT
BRK BRKT	BRICK BRACKET	ESC ESCL	ESCUTCHEON ESCALATOR	JST JT	JOIST JOINT	PL	PROPERTY LINE	SPC SPD
BRS BRZ	BRASS BRONZE	ESMT EW	EASEMENT EACH WAY			PLAM PLAS	PLASTIC LAMINATE PLASTER	SPEC SPRT
BS	BOTH SIDES	EWC	ELECTRIC WATER COOLER	KIT KO	KITCHEN KNOCKOUT	PLBG PLYWD	PLUMBING PLYWOOD	SQ
BSMT BTWN	BASEMENT BETWEEN	EWH EWS	ELECTRICAL WATER HEATER EYE WASH STATION	KPL	KICKPLATE	PNEU	PNEUMATIC	SSK SSD
BUR BW	BUILT UP ROOFING BOTH WAYS	EXC EXG	EXCAVATE EXISTING	LAB	LABORATORY	PNL PNT	PANEL PAINT(ED)	SST STA
	BOTH WATS	EXH	EXHAUST	LAD	LADDER	POL POLY	POLISHED POLYETHYLENE	STAG
C&G CAB	CURB AND GUTTER CABINET	EXP EXPN	EXPOSED EXPANSION	LAM LAV	LAMINATE(D) LAVATORY	PORC	PORCELAIN	STC STD
CAD	CADMIUM	EXS EXT	EXTRA STRONG EXTERIOR	LBL LBR	LABEL LUMBER	PORT PR	PORTABLE PAIR	STG STIF
CB CBB	CATCH BASIN CEMENTITIOUS BACKER BOARD			LBS	POUND	PRCST PREFAB	PRECAST PREFABRICATE(D)	STIR
CEM CER	CEMENT CERAMIC	F/F FA	FACE TO FACE FIRE ALARM	LCT LDR	LINOLEUM COMPSITE TILE LEADER	PREFIN	PREFINISHED	STL STOR
CFCI	CONTRACTOR FURNISH	FAB FBD	FABRIC FIBERBOARD	LG LH	LENGTH LEFT HAND	PREFMD PRKG	PREFORMED PARKING	STR ST
CFLG	CONTRACTOR INSTALLED COUNTERFLASHING	FBRK	FIRE BRICK	LHR LKNT	LEFT HAND REVERSE	PRML PROJ	PREMOLDED PROJECT	STRCT STU
CFOI	CONTRACTOR FURNISH OWNER INSTALLED	FCBRK FD	FACE BRICK FLOOR DRAIN	LKR	LOCKNUT LOCKER	PROP	PROPERTY	SUSP
CG	CORNER GUARD	FDTN FE	FOUNDATION FIRE EXTINGUISHER	LKWASH LLH	LOCKWASHER LONG LEG HORIZONTAL	PSCONC PT	PRESTRESSED CONCRETE POINT	SV SYMM
CHBD CHFR	CHALKBOARD CHAMFER	FEC	FIRE EXTINGUISHER CABINET	LLV LMST	LONG LEG VERTICAL LIMESTONE	PTCONC PTD	POST TENSIONED CONCRETE PAPER TOWEL DISPENSER	SYNTH SYS
CI CIR	CAST IRON CIRCLE	FFA FFB	FROM FLOOR ABOVE FROM FLOOR BELOW	LNDSCP	LANDSCAPE(D)	PTN PTR	PARTITION PAPER TOWEL RECEPTOR	
CIRC CJ	CIRCULAR, CIRCUMFERENCE CONSTRUCTION JOINT	FFEL FFL	FINISHED FLOOR ELEVATION FINISHED FLOOR LINE	LNTL LP	LINTEL LIGHTPROOF	PVC	POLYVINYL CHLORIDE	T T&B
CL	CHAIN LINK	FGL	FIBERGLASS	LPT LT	LOW POINT LIGHT	PVG PVMT	PAVE(D), (ING) PAVEMENT	TB
CLG CLJ	CEILING CONTROL JOINT	FHC FHMS	FIRE HOSE CABINET FLATHEAD MACHINE SCREW	LTWT	LIGHT WEIGHT			TBE TBM
CLL CLOS	CONTRACT LIMIT LINE CLOSURE	FHWS FIN	FLATHEAD WOOD SCREW FINISH(ED)	LVL LVR	LEVEL(ER) LOUVER	QT QTB	QUARRY TILE QUARRY TILE BASE	TD TDR
CLR	CLEAR(ANCE)	FJT	FLUSH JOÍNT	LVT LW	LUXURY VINYL TILE LIGHTWEIGHT CONCRETE	QTF QTR	QUARRY TILE FLOOR QUARTER	
CLRM CMPST	CLASSROOM COMPOSITION	FLASH FLDG	FLASH(ING) FOLDING	LWIC	LIGHTWEIGHT INSULATING CONCRETE	QTY	QUANTITY	TEL TEMP
CMU CNCL	CONCRETE MASONRY UNIT CONCEALED	FLG FLR	FLOORING FLOOR		MAINTAIN(ANCE)	———— R	RISER	TER TFA
CNR	CORNER	FLUOR	FLUORESCENT	MAS	MASONRY	RA	RETURN AIR	TFB
CNTR COL	COUNTER COLUMN	FN FOC	FIELD NAILING FACE OF CONCRETE	MATL MAX	MATERIAL MAXIMUM	RAB RAD	RABBET RADIUS	T & G THD
COM COMB	COMMON COMBINATION	FOF FOG	FACE OF FINISH FACE OF GRID	MB MBR	MACHINE BOLT MEMBER	RB RBR	RESILIENT BASE RUBBER	THERM THK
COMPT	COMPARTMENT	FOM	FACE OF MASONRY	MC MCB	MEDICINE CABINET METAL CORNER BEAD	RCP	REINFORCED CONCRETE PIPE	THRES
CONC CONF	CONCRETE CONFERENCE	FOS FPL	FACE OF STUDS FIREPLACE	MDO	MEDIUM DENSITY OVERLAID	RCVR RD	RECEIVER ROOF DRAIN	TKBD TMPD
CONN CONSTR	CONNECTION CONSTRUCTION	FPRF FR	FIREPROOF(ING) FRAME(D), (ING)	MECH MED	MECHANICAL MEDIUM	RDGINS RDWY	RIGID INSULATION ROADWAY	TOB TOC
CONT	CONTINUOUS (ATION)	FRG	FIBER REINFORCED GYPSUM	MEMB MEZZ	MEMBRANE MEZZANINE	REBAR	REINFORCING STEEL BARS	TOF TOFF
CONTR COORD	CONTRACT(OR) COORDINATE	FRGL FRP	FIRE RESISTIVE GLAZING FIBERGLASS REINFORCED	MFD	METAL FLOOR DECKING	REC RECT	RECESSED RETANGULAR	TOJ
CORR	CORRIDOR	FRTD	PLASTIC FIRE RATED	MFR MH	MANUFACTURE(ER) MANHOLE	REF REFL	REFERENCE REFLECT(ED), (IVE), (OR)	TOL TOM
CPR CPRS	COPPER COMPRESS(ED), (ION), (IBLE)	FRTW	FIRE RETARDANT TREATED	MIN	MINIMUM	REFR	REFRIGERATOR	TOP
CPT CRS	CARPET(ED) COLD ROLLED STEEL	FRZ	WOOD FREEZER	MIRR MISC	MIRROR MISCELLANEOUS	REG REINF	REGISTER REINFORCE(D), (ING), (MENT)	TOPV TOS
CS	CAST STONE	FS FSTN	FAR SIDE FASTEN, FASTENER	ML MLDG	METAL LATH MOLDING	REM REP	REMOVE(ABLÉ) REPAIR	TOSL TOST
CSG CSK	CASING COUNTERSUNK	FT FTG	FOOT OR FEET	MLWK	MILLWORK	REPL	REPLACE	TOW TPD
CSMT CSWK	CASEMENT CASEWORK	FURG	FOOTING FURRED (ING)	MO MOD	MASONRY OPENING MODULE (AR)	REQD RESIL	REQUIRED RESILIENT	TPTN
CT	CERAMIC TILE	FUT FWC	FUTURE FABRIC WALL COVERING	MR MRB	MOISTURÈ RÉSISTANT MARBLE	RET REV	RETURN REVISION(S), REVISED	TS TWLB
CTB CTF	CERAMIC TILE BASE CERAMIC TILE FLOOR			MRD	METAL ROOF DECKING	RF	RESILIENT FLOORING	TV
CTG CTR	COATING CENTER	GA GAL	GAGE GALLON	MS MTD	MACHINE SCREW MOUNTED	RFG	ROOFING	TYP
J.11		UNL	O/ NEEO I V	MTL	METAL			

RFH	ROOF HATCH
RH	RIGHT HAND
RHMS	ROUND HEAD
	MACHINE SCREW
RHR	RIGHT HAND REVERSE
RHWS	ROUND HEAD WOOD SCREW
RL	ROOF LEADER
RLG	RAILING
RM RND	ROOM ROUND
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RS	ROUGH SAWN
RTF	RUBBER TILE FLOORING
RTU	ROOF TOP UNIT ROOF VENT
RV RVL	REVEAL
RVS	REVERSE (SIDE)
RVT	RIVET(ED)
RWD	REDWOOD
RWL	RAIN WATER LEADER
	COLUTIA
S S2S	SOUTH SURFACED TWO SIDES
S4S	SURFACED FOUR SIDES
SA	SUPPLY AIR
SALV	SALVAGE
SAT	SUSPENDED ACOUSTICAL TILE
SB	SPLASH BLOCK
SBSTR SC	SUBSTRATE SOLID CORE
SCD	SEAT COVER DISPENSER
SCHED	SCHEDULE
SCP	SCUPPER
SCRN SD	SCREEN STORM DRAIN
SDBL	SANDBLAST
SECT	SECTION
SGL	SINGLE
SHR	SHOWER
SHT	SHEET(ING)
SHTHG SHV	SHEATHING SHELVES (ING)
SHV SIM	SHELVES (ING) SIMILAR
SKLT	SKYLIGHT
SLD	SEALED
SLDG	SLIDE (ING)
SLDR	SOLDER
SLNT SLV	SEALANT SLEEVE
SMACNA	SHEET METAL AND AIR
	CONDITIONING CONTRACTORS
CMIC	NATIONAL ASSOCIATION
SMLS SND	SEAMLESS SANITARY NAPKIN DISPENSER
SNDINS	SOUND INSULATION
SNDU	SANITARY NAPKIN DISPOSAL
	UNIT
SNT	SEALANT
SPC	SUSPENDED PLASTER CEILING SOAP DISPENSER
SPD SPEC	SPECIFICATION(S) (ED)
SPRT	SUPPORT
SQ	SQUARE
SSK	SERVICE SINK
SSD SST	SEE STRUCTURAL DRAWING 1 STAINLESS STEEL
STA	STATION STATION
STAG	STAGGERED
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STG	SEATING STIEFENED
STIF STIR	STIFFENER STIRRUP
STIK	STEEL
STOR	STORAGE
STR	STRAIGHT
ST	STREET
STRCT STU	STRUCTURAL STRUCT
SUSP	SUSPENDED
SV	SHEET VINYL
SYMM	SYMMETRICAL
SYNTH	SYNTHETIC
SYS	SYSTEM
T	TREAD
T & B	TOP AND BOTTOM
TB	THRU BOLT
TBE TBM	THREADED BOTH ENDS TEMPORARY BENCH MARK
TD	TOWEL DISPENSER
TDR	TOWEL DISTENSER/
	RECEPTACLE
TEL	TELEPHONE

TELEPHONE

TEMPORARY TERRAZZO

THERMAL

THICK(NESS) THRESHOLD TACKBOARD TEMPERED TOP OF BEAM TOP OF CURB

TO FLOOR ABOVE

TO FLOOR BELOW

TONGUE & GROOVE THREAD(ED)

TOP OF FOOTING TOP OF FINISH FLOOR

TOLERANCE
TOP OF MASONRY
TOP OF PARAPET
TOP OF PAVEMENT
TOP OF SHEATHING

TOILET PAPER DISPENSER

TOP OF JOIST

TOP OF SLAB TOP OF STEEL

TOP OF WALL

TUBE STEEL TOWEL BAR

TELEVISION

TYPICAL

TOILET PARTITION

UC	UNDERCUT
UGND	UNDERGROUND
UL	UNDERWRITERS LABORATORY
UNFIN	UNFINISHED
UON	UNLESS OTHERWISE NOTED
UR	URINAL
VAR	VARIES
VB	VINYL BASE
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VFAT	VINYL FACED ACOUSTIC TILE
VIF	VERIFY IN FIELD
VJ	V-JOINT(ED)
VNR	VENEER
VR VTD	VAPOR RETARDER
VTR VWC	VENT THROUGH ROOF VINYL WALL COVERING
V V V C	VINTE WALL COVERING
W/	WITH
W/W	WALL TO WALL
W/O	WITHOUT
W	WEST
WBL	WOOD BLOCKING
WC	WATER CLOSET
WD	WOOD
WDP	WOOD PANELING
WDW	WINDOW
WF	WIDE FLANGE
WFS	WOOD FURRING STRIP
WGL	WIRED GLASS
WH	WALL HUNG
WID	WROUGHT IRON
WID	WIDTH, WIDE
WLD WM	WELD(ED) WIRE MESH
vvivi WP	WATERPROOF(ING)
WPT	WORKING POINT
WR	WIRE ROPE
WS	WOOD SCREW
WSCT	WAINSCOT
WT	WEIGHT
WWF	WELDED WIRE FABRIC
XBRACE	CROSS BRACE
XFMR	TRANSFORMER
XSECT	CROSS SECTION
	3.1000 020 11011
YCO	YARD CLEANOUT



BERKELEY2600 TENTH STREET, SUITE 700
BERKELEY, CA 94710-2597
510-450-1999 P

RENOVATION CITY OF ROHNERT PARK 1170 GOLF COURSE DRIVE ROHNERT PARK, CA 94928 HONEYBEE POOL

LOREN GACHEN
C-37926
MM 12/31/23

TO F CAME

CONSULTANT

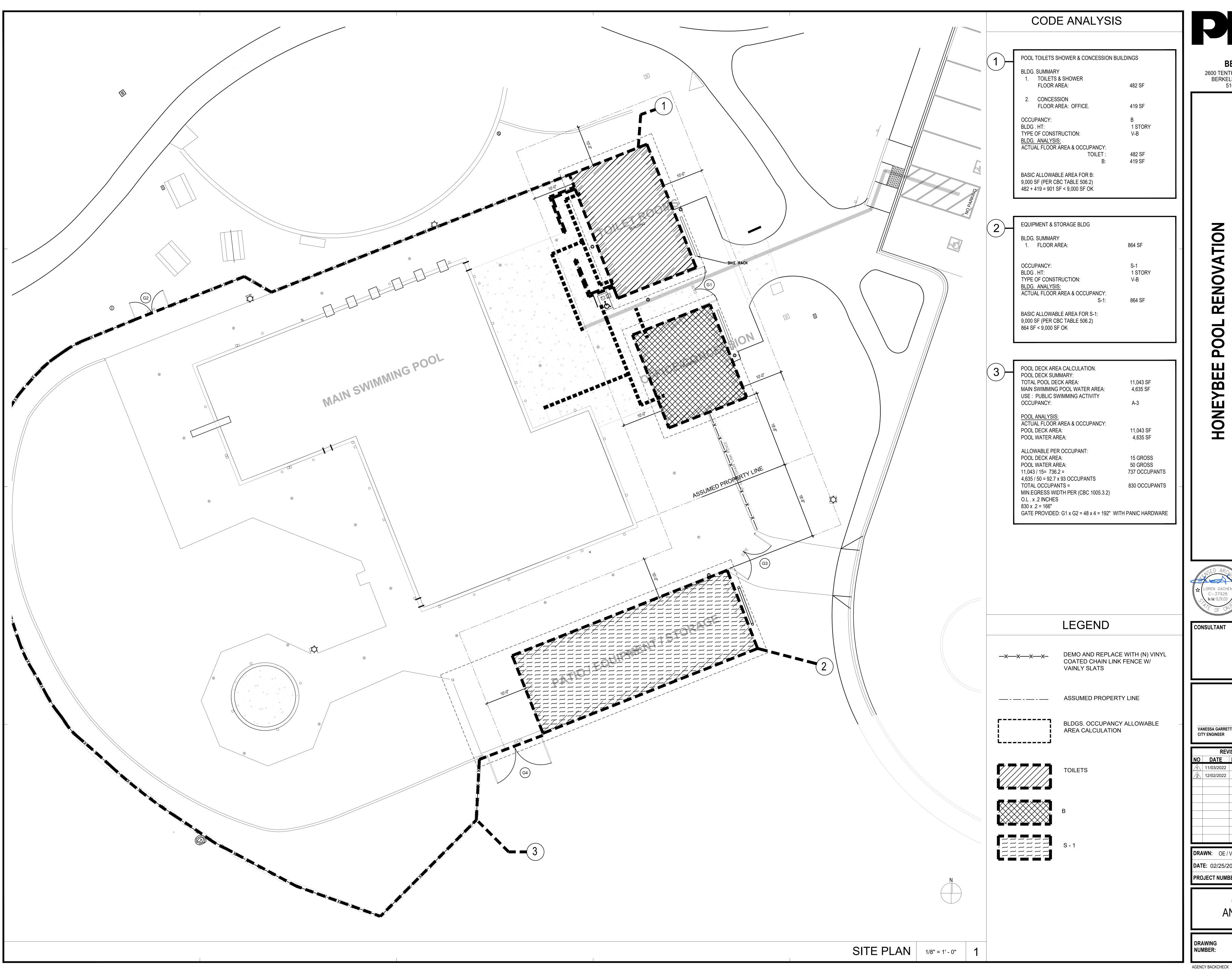
VANESSA GARRETT P.E. CE84141 CITY ENGINEER

REVISION SCHEDULE NO DATE BY DESCRIPTION 11/03/2022 AGENCY PLAN REVIEW AGENCY PLAN REVIEW

DRAWN: CHECKED: **DATE**: 02/25/2022 **SCALE**: PROJECT NUMBER: 2010200

> ARCHITECTURAL DRAWING **ABBREVIATIONS**

DRAWING NUMBER:





CITY OF ROHNERT PARK 1170 GOLF COURSE DRIVE ROHNERT PARK, CA 94928

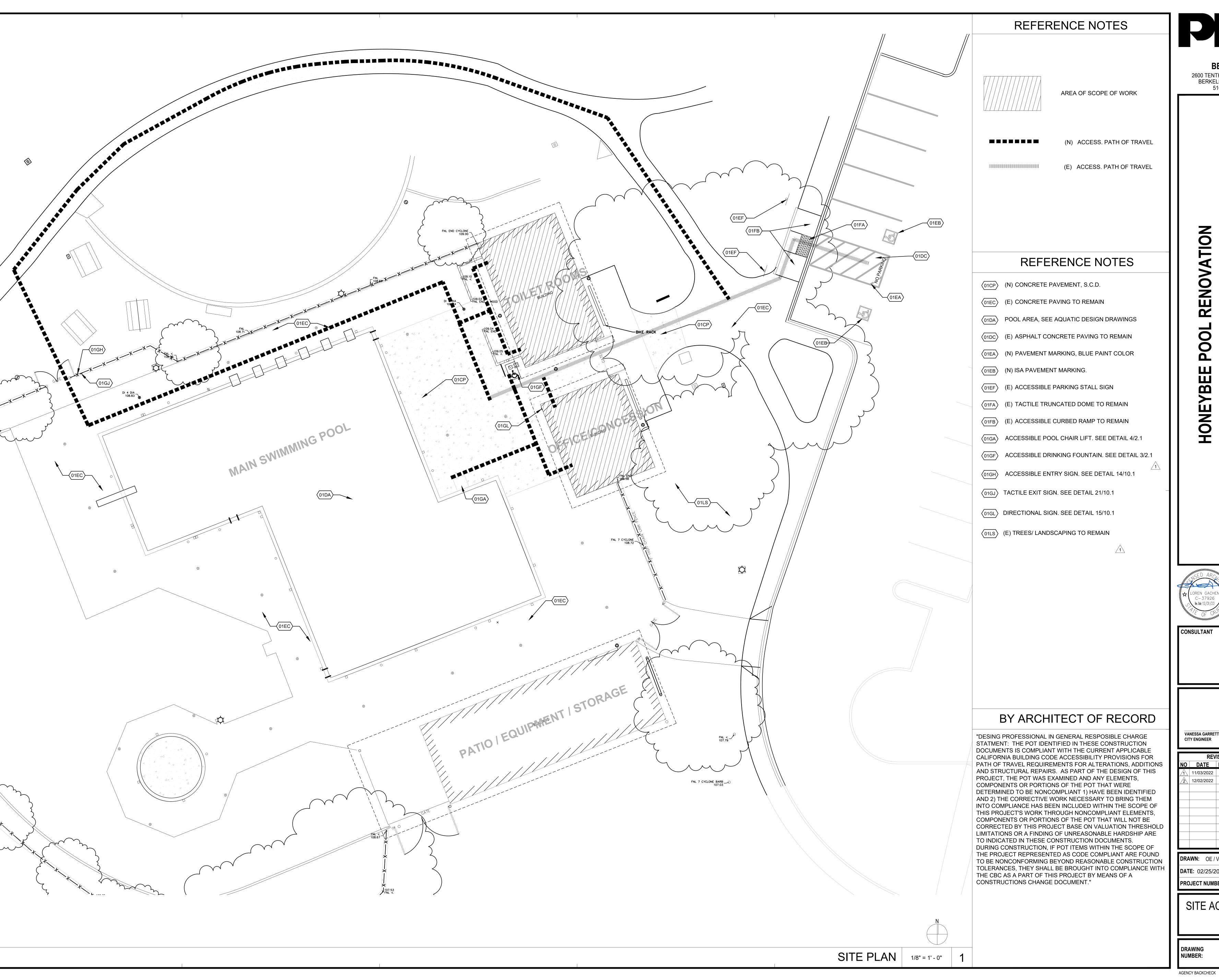
VANESSA GARRETT P.E. CE84141 **CITY ENGINEER**

REVISION SCHEDULE NO DATE BY DESCRIPTION AGENCY PLAN REVIEW AGENCY PLAN REVIEW 2 12/02/2022

DRAWN: OE / VP CHECKED: OE **DATE**: 02/25/2022 **SCALE**: 1/8" = 1' - 0 PROJECT NUMBER: 2010200

CODE ANALYSIS

A0.5



RENOVATION

VANESSA GARRETT P.E. CE84141 CITY ENGINEER

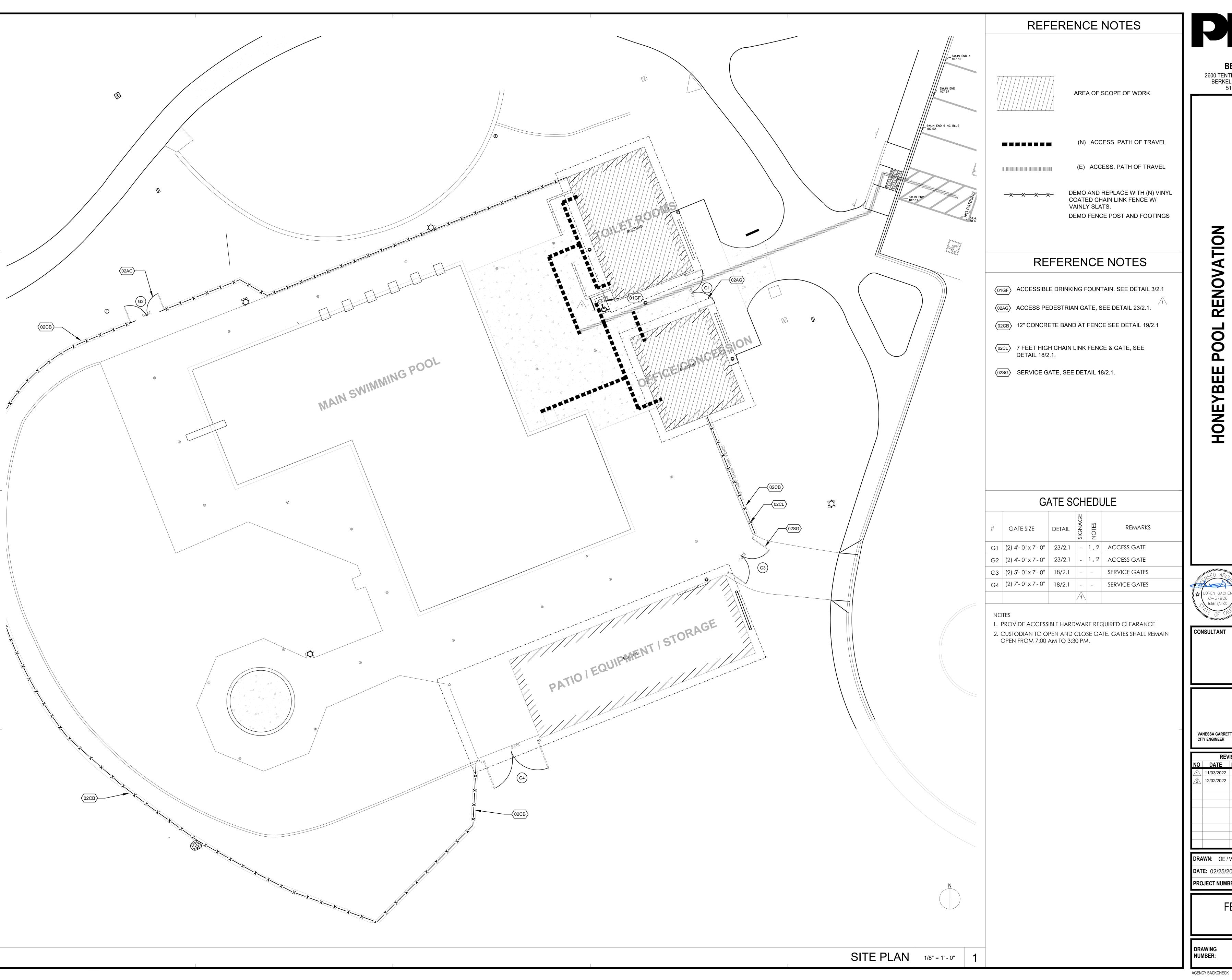
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DRAWN: OE/VP CHECKED: OE **DATE**: 02/25/2022 **SCALE**: 1/8" = 1' - 0 PROJECT NUMBER: 2010200

SITE ACCESSIBILITY PLAN

DRAWING NUMBER:

A0.6





RENOVATION

POOL

CITY OF ROHNERT PARK 1170 GOLF COURSE DRIVE ROHNERT PARK, CA 94928

VANESSA GARRETT P.E. CE84141 CITY ENGINEER

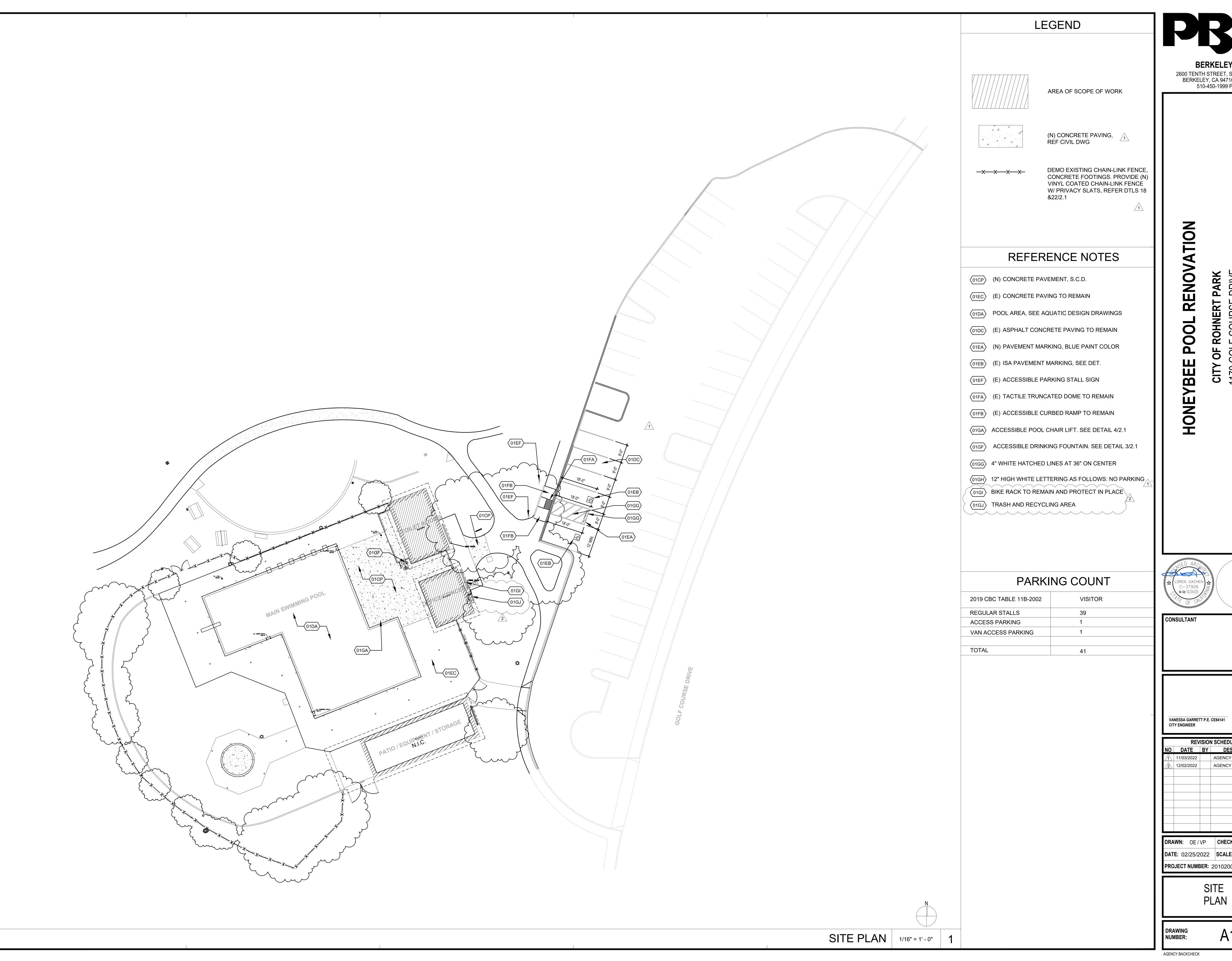
REVISION SCHEDULE NO DATE BY DESCRIPTION AGENCY PLAN REVIEW 2 12/02/2022 AGENCY PLAN REVIEW

DRAWN: OE / VP CHECKED: OE **DATE**: 02/25/2022 **SCALE**: 1/8" = 1' - 0' PROJECT NUMBER: 2010200

FENCING PLAN

DRAWING NUMBER:

A0.7



BERKELEY

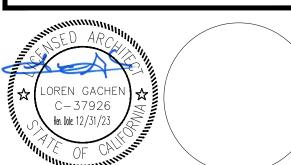
2600 TENTH STREET, SUITE 700 BERKELEY, CA 94710-2597 510-450-1999 P

RENOVATION

POOL

HONEYBEE

CITY OF ROHNERT PARK 1170 GOLF COURSE DRIVE ROHNERT PARK, CA 94928



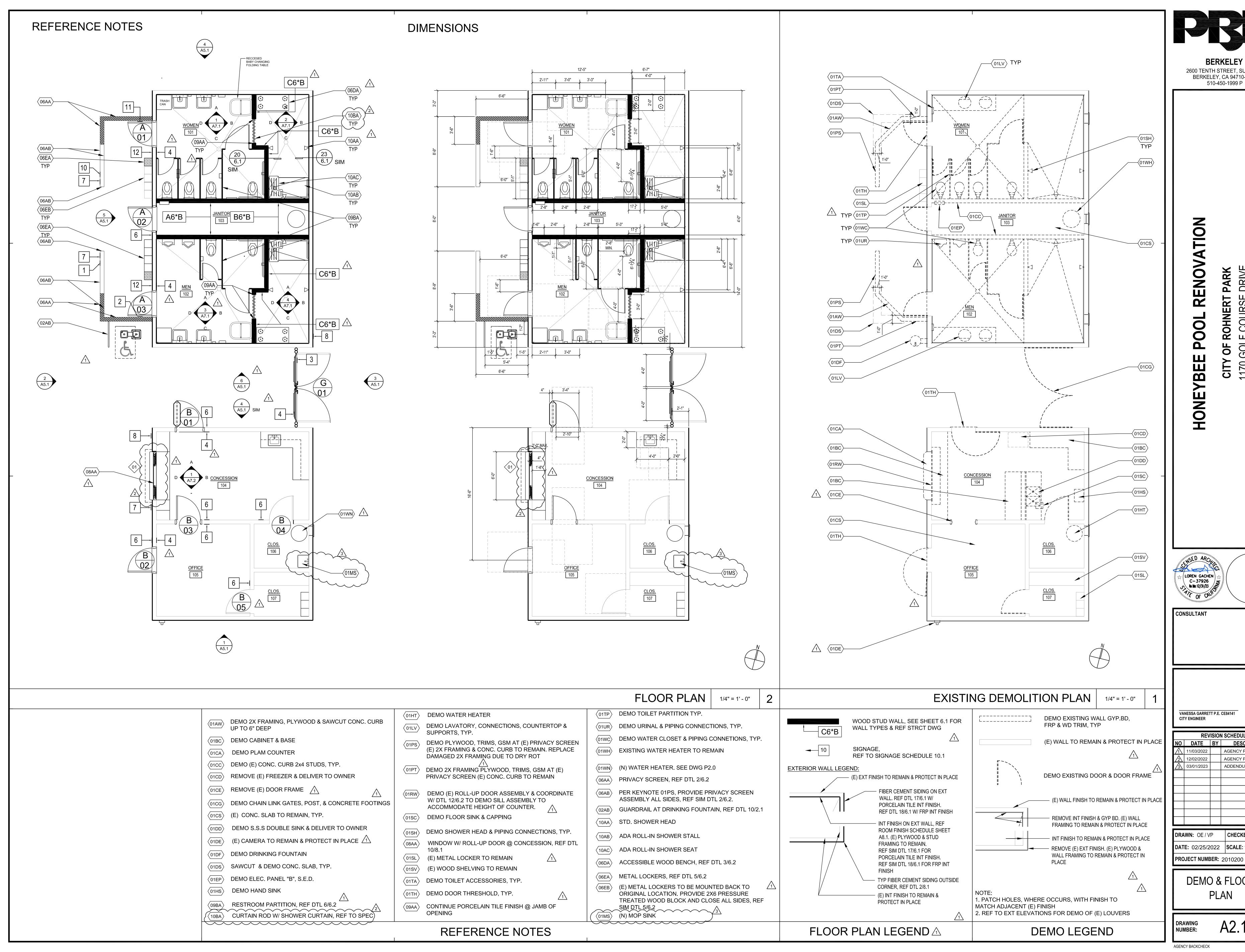
CONSULTANT

REVISION SCHEDULE NO DATE BY DESCRIPTION AGENCY PLAN REVIEW 2 12/02/2022 AGENCY PLAN REVIEW

DRAWN: OE / VP CHECKED: OE **DATE**: 02/25/2022 **SCALE**: 1/8" = 1' - 0 PROJECT NUMBER: 2010200

A1.0

DRAWING NUMBER:

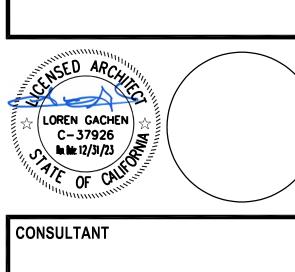




BERKELEY

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RENOV/

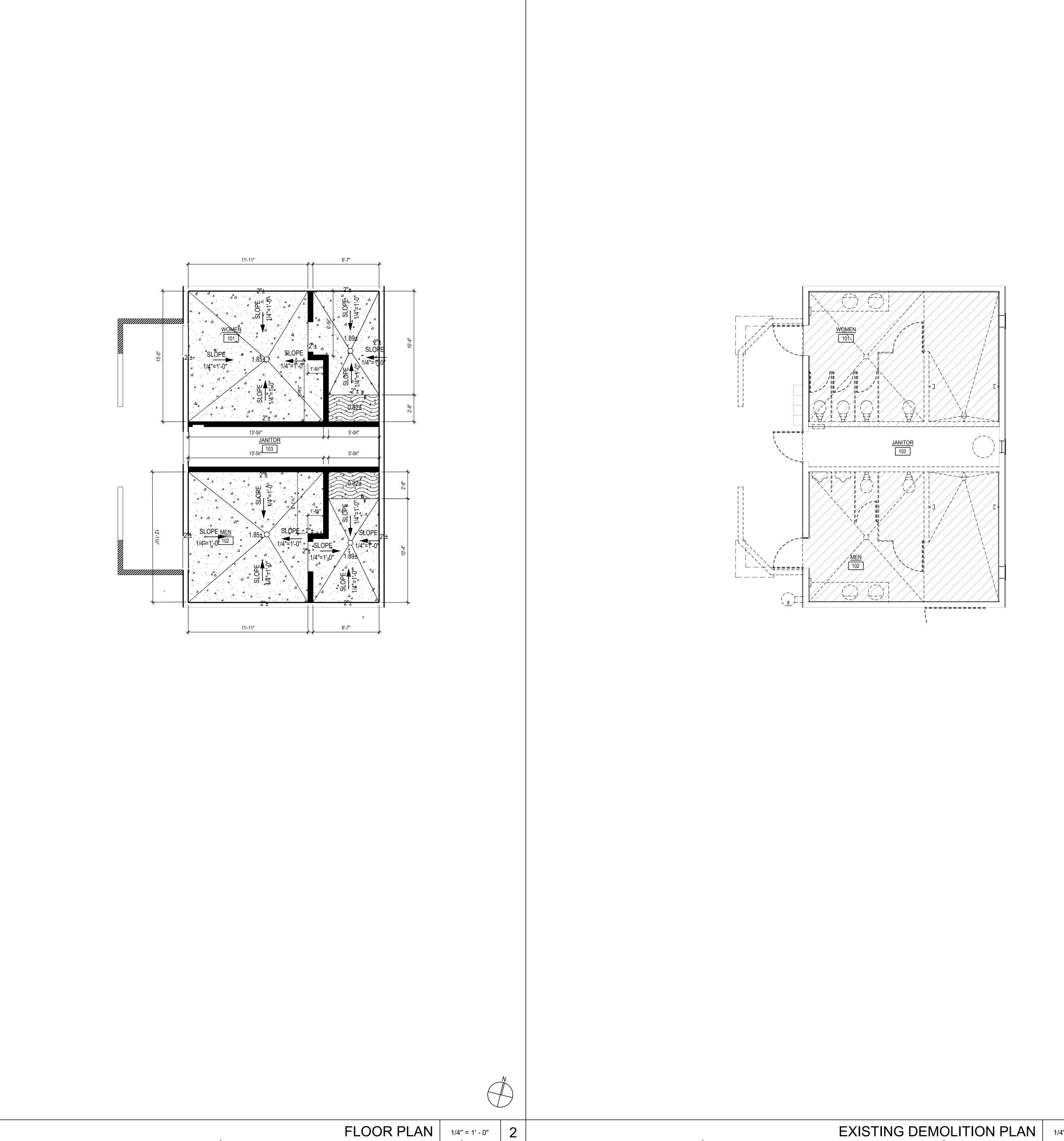


VANESSA GARRETT P.E. CE84141

NO	DATE	BY	DESCRIPTION
11	/03/2022		AGENCY PLAN REVIEW
<u>/2</u> 12	/02/2022		AGENCY PLAN REVIEW
<u>3</u> 03	3/01/2023		ADDENDUM 1

DEMO & FLOOR PLAN

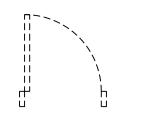
A2.1



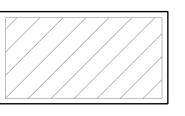


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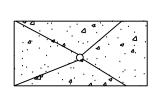
DEMO EXISTING WALL GYP.BD, FRP & WD TRIM, TYP



DEMO EXISTING DOOR & FRAME



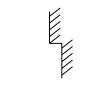
SAW CUT & DEMO EXISTING CONC. SLAB INCLUDING FLOOR DRAIN & PLUMBING



(N) CONCRETE SLAB



(N) DEPRESS SLAB



CHANGE IN FLOOR ELEVATION



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> RENOVATION HONEYBEE POOL

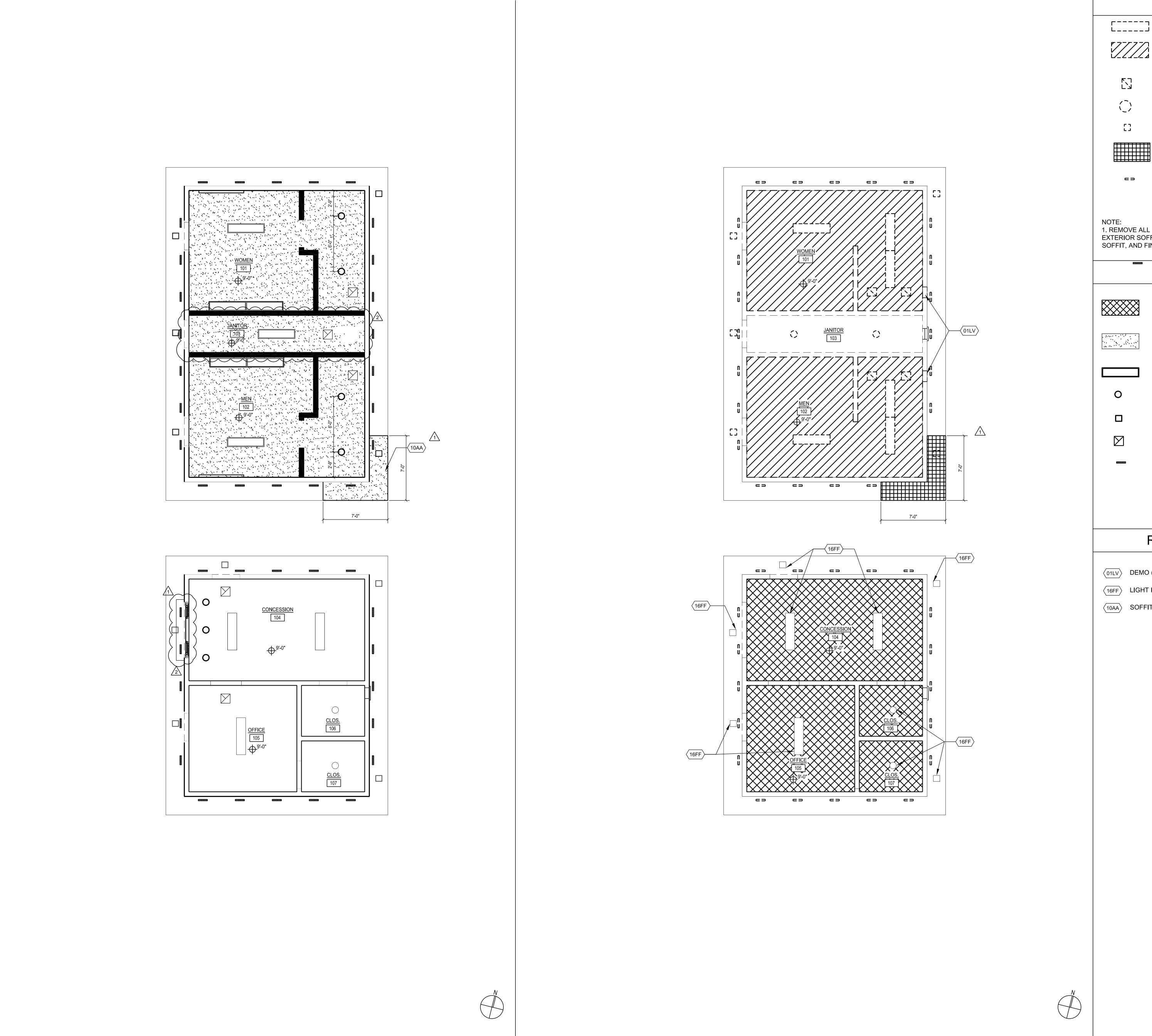
CITY OF ROHNERT PARK 1170 GOLF COURSE DRIVE ROHNERT PARK, CA 94928

REVISION SCHEDULE AGENCY PLAN REVIEW

DRAWN: OE / VP CHECKED: OE **DATE**: 02/25/2022 **SCALE**: 1/4" = 1' -0" PROJECT NUMBER: 2010200

DRAWING NUMBER: A2.2

EXISTING DEMOLITION PLAN | 1/4" = 1' - 0"



REFLECTED CEILING PLAN | 1/4" = 1' - 0"

LEGEND DEMO DEMO EXISTING LIGHT FIXTURES

BERKELEY

RENOVATION

POOL

HONE

CITY OF RC 1170 GOLF (ROHNERT F

2600 TENTH STREET, SUITE 700 BERKELEY, CA 94710-2597 510-450-1999 P

DEMO (E) EXHAUST FAN

DEMO (E) SUSPENDED CEILING GYP BD

DEMO (E) INTERIOR LIGHT FIXTURE

DEMO (E) EXTERIOR LIGHT FIXTURE

DEMO (E) EXTERIOR SOFFIT

DEMO PORTION OF SOFFIT TO ACCOMMODATE 2"X12" VENT SCREEN. FIELD VERIFY LOCATION TO AVOID CONFLICT WITH FRAMING.

1. REMOVE ALL (E) 2" WIDE METAL SCREEN VENT ALONG EXTERIOR SOFFIT FOR BOTH BUILDINGS. PATCH AND REPAIR SOFFIT, AND FINISH TO MATCH ADJACENT FINISH.

LEGEND

(E) CEILING TO REMAIN (N) PAINT FINISH TYP.



(N) SUSPENDED CEILING GYP BD. SEE DETAIL 17/ 9.3



(N) 1' x 4' INTERIOR LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS

(N) INTERIOR LIGHT FIXTURE, SEE ELECTRICAL (N) EXTERIOR LIGHT FIXTURE, SEE ELECTRICAL

(N) CEILING DIFFUSER, SEE MECHANIAL DRAWINGS 2"X12" VENT SCREEN @ APPROX 4"-0" O.C., FIELD VERIFY LOCATION TO AVOID CONFLICT WITH FRAMING, REF DTL 18/7.1

REFERENCE NOTES

(01LV) DEMO (E) LOUVER

DEMOLITION REFLECTED CEILING PLAN 1/4" = 1' - 0"

(16FF) LIGHT FIXTURE TO REMAIN

(10AA) SOFFIT @ ROOF TRUSS FASCIA, REF DTL 18/7.1

LOREN GACHEN C-37926 Su Mr. 12/31/23

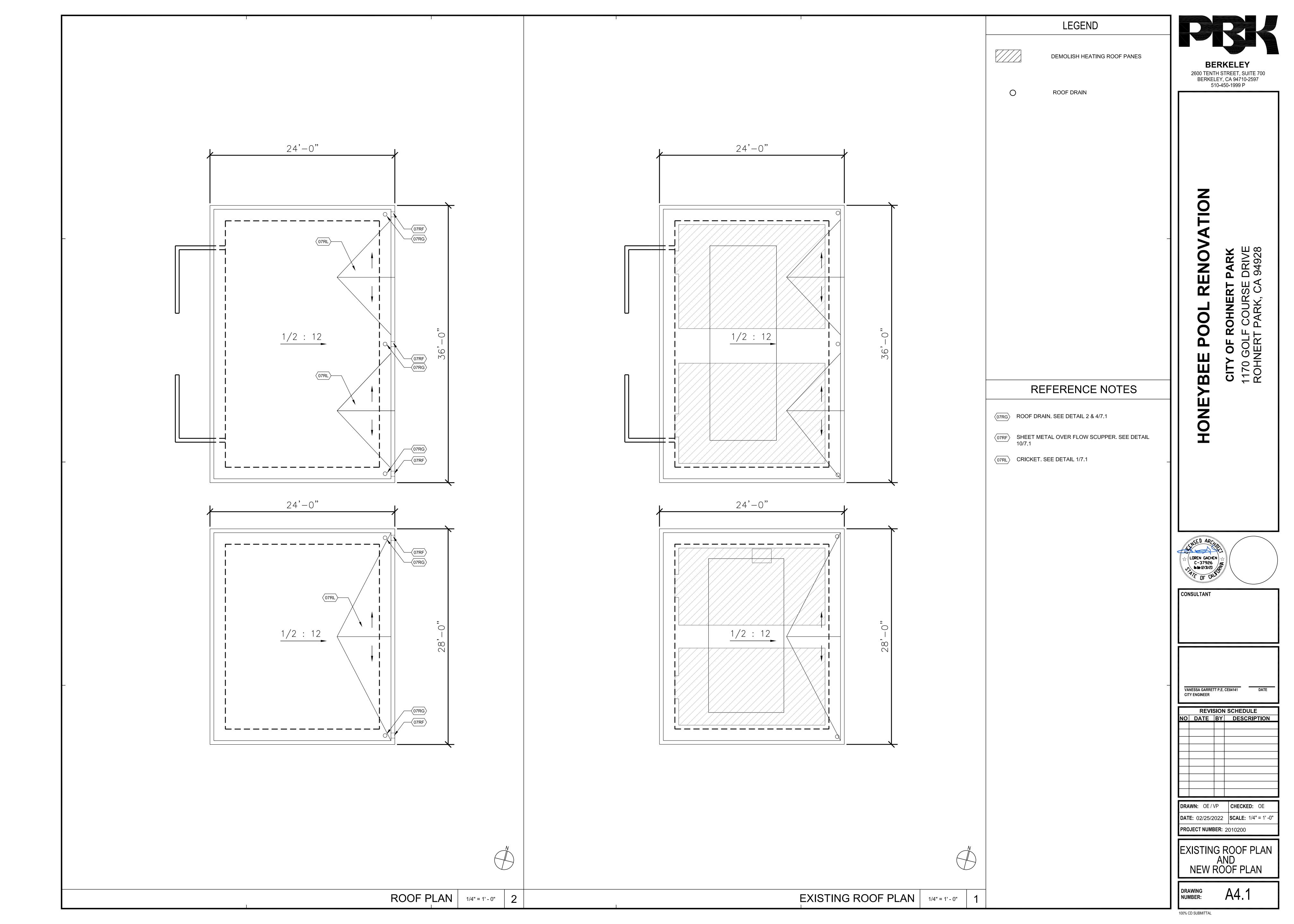
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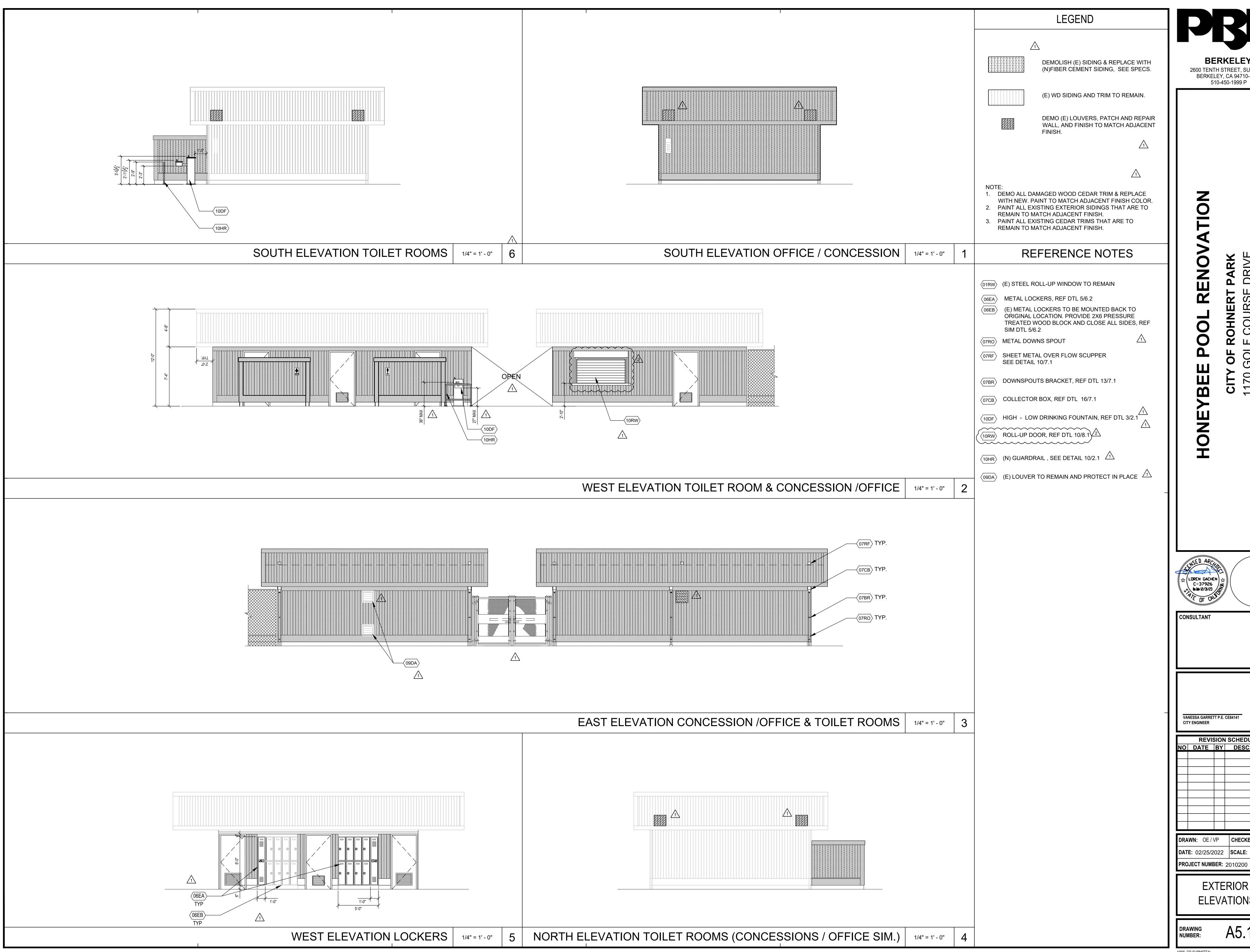
REVISION SCHEDULE NO DATE BY DESCRIPTION

DRAWN: OE/VP CHECKED: OE **DATE**: 02/25/2022 **SCALE**: 1/4" = 1' -0" PROJECT NUMBER: 2010200

> **DEMO RCP** AND NEW RCP PLAN

A3.1 DRAWING NUMBER:







BERKELEY 2600 TENTH STREET, SUITE 700

BERKELEY, CA 94710-2597 510-450-1999 P

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1170 GOL ROHNERT

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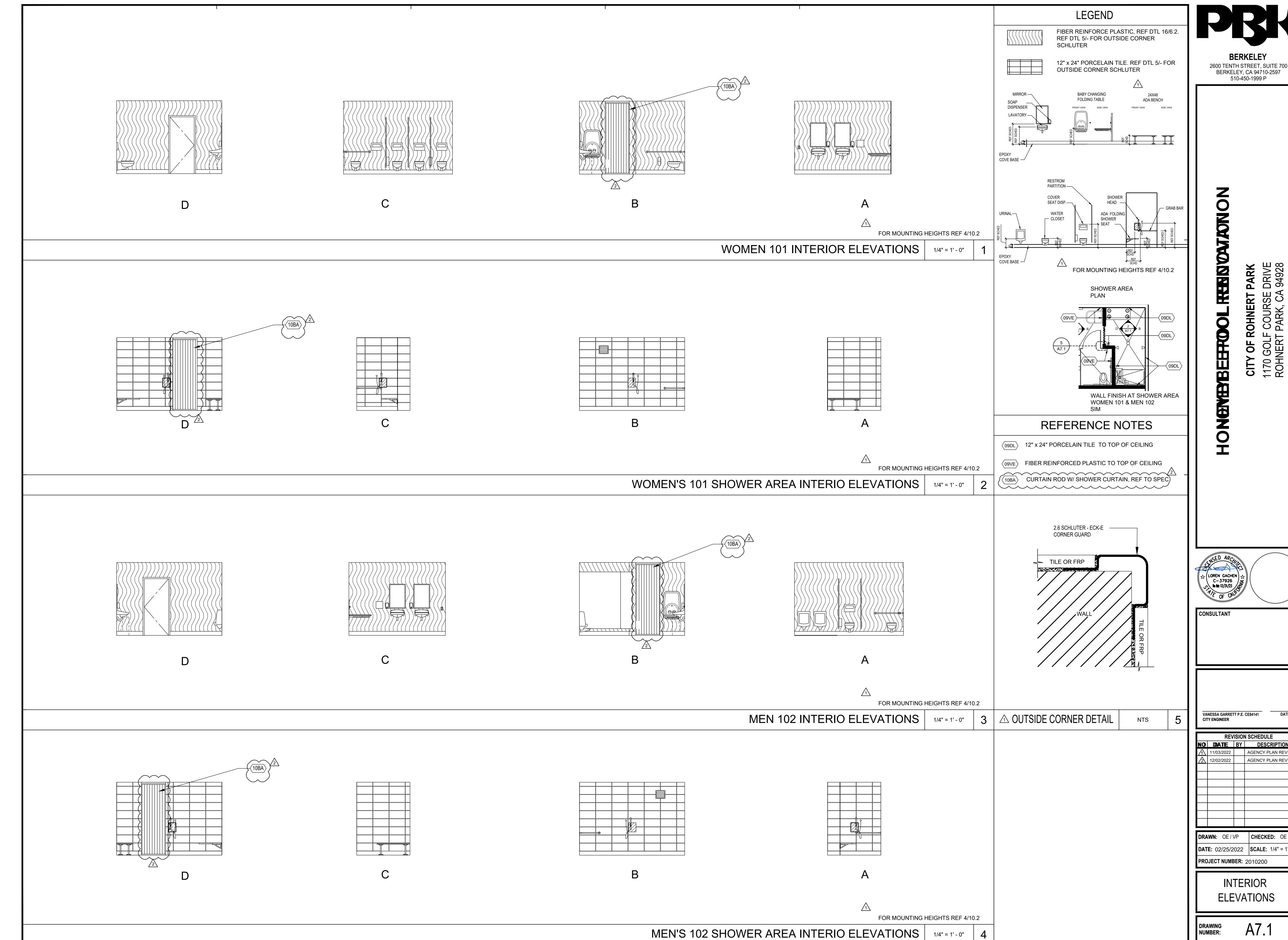
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DATE: 02/25/2022 **SCALE**: 1/4" = 1' -0"

EXTERIOR

A5.1

ELEVATIONS



	REVISION SCHEDULE														
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Λ	11/03/2022		AGENCY PLAN REVIEW												
<u>/2</u> \	12/02/2022		AGENCY PLAN REVIEW												

DATE: 02/25/2022 **SCALE**: 1/4" = 1' -0"

REFERENCE NOTES

(10SC) ACCESSIBLE SINK CABINET. SEE DETAIL 5/6.1

(06RB) 6" RUBBER BASE



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510-450-1999 P

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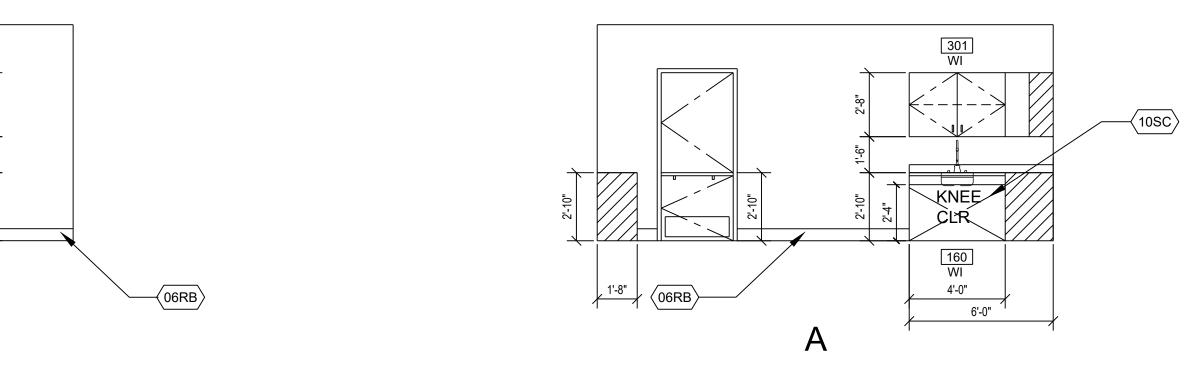
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> INTERIOR **ELEVATIONS**

DRAWING NUMBER: A7.2

100% CD SUBMITTAL





CONCESSION 104 INTERIOR ELEVATIONS

DOOM EINIGH CCHEDIII E

GYP GYP

GYP

9'-0"

9'-0"

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	RATE	FIN	WA	LL M	ATER	RIAL	CEIL	ING	WNS	COT	FI	NISHE	ES						D	0
FLOOR SUBSTR		BASE	N	Е	S	W	MTL	НТ	MTL	НТ	FLOOR	WALLS	CEILING	REMARKS	DOOR	NO W PER LEAF	MINAL S	SIZE	MTL	L C F
	CONC	ECB	GYP	GYP	GYP	GYP	GYP	9'-0"	-	-	EPY	FRP	PNT	1	A-01	3'-0"	7'-0"	0'-1 3/4"	НМ	F
	CONC	ECB	GYP	GYP	GYP	GYP	GYP	9'-0"	-	-	EPY 2	PT	PNT	1 & 2	A-02	3'-0"	7'-0"	0'-1 3/4"	НМ	E
	CONC	ECB	GYP	GYP	GYP	GYP	GYP	9'-0"	-	-	EPY	FRP	PNT	1	A03	3'-0"	7'-0"	0'-1 3/4"	НМ	E
	CONC	ECB	GYP	GYP	GYP	GYP	GYP	9'-0"			EPY 2	Y PT	PNT	1 & 2						

<u>EPY</u>

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DOOR AND FRAME SCHEDULE

			DOOR											FRA	AME		GROUP	ŊĊ		
}	OOR ARK	NO	MINAL S	IZE		m	SS	AIL	LOU	VER		Ш	ASS	DETAILS			VE GR	E RATING		
	DO	W PER LEAF	НТ	THK	MTL	TYPE	GLA	DETAIL	W	HT	MTL	TYPE	GLA	JAMB	HEAD	THRSHLD	OTHER	HDWE	FIRE	REMARKS
	A-01	3'-0"	7'-0"	0'-1 3/4"	НМ	В	1 -	-	24"	18"	НМ	1	-	3/8.1 SIM	3/8.1	4/8.1	-	01	NR	24" x 18" OA DOOR LOUVER
	A-02	3'-0"	7'-0"	0'-1 3/4"	НМ	В	-	-	14"	18"	НМ	1	-	3/8.1 SIM	3/8.1	4/8.1	-	02	NR	14" x 18" OA DOOR LOUVER
	A03	3'-0"	7'-0"	0'-1 3/4"	НМ	В	1 -	- 1	24"	18"	НМ	1	-	3/8.1 SIM	3/8.1	4/8.1	-	01	NR	24" x 18" OA DOOR LOUVER
																	1			-
	B-01	3'-0"	7'-0"	0'-1 3/4"	НМ	С		-	14"	18"	НМ	2	-	3/8.1 SIM	3/8.1	4/8.1	-	03	NR	-
	B-02	3'-0"	7'-0"	0'-1 3/4"	НМ	В	1_	- 1	. 14"	18"	НМ	1	-	3/8.1 SIM	3/8.1	4/8.1	-	04	NR	14" x 18" OA DOOR LOUVER
	B-03	3'-0"	7'-0"	0'-1 3/4"	WD	D	LAM	-	-	-	WD	1	-	3/8.1 SIM	3/8.1	4/8.1	-	05	NR	
	B-04	3'-0"	7'-0"	0'-1 3/4"	WD	D	LAM	-	-	-	WD	1	-	7/8.1 SIM	7/8.1	8/8.1	-	05	NR	<u></u>
	B-05	3'-0"	7'-0"	0'-1 3/4"	WD	D	LAM	-	-	_	WD	1	-	7/8.1 SIM	7/8.1	8/8.1	-	05	NR	

REMARKS REFERENCE SCHEDULE ROOM FINISH MATERIALS KEY CONC - CONCRETE 1. REFER TO PAINTING SPECIFICATIONS FOR COLOR SCHEDULE GYP - GYPSUM BOARD PT - PORCELAIN TILE: 2. 12" x 24" PORCELAIN TILE EXT WALL CONDITION - REF DTL 17/6.1 PNT - PAINT • INT WALL CONDITION - WALL TYPE PER PLAN FRP - FIBER REINFORCED PLASTIC: • EXT WALL CONDITION - REF DTL 18/6.1 **ECB - EPOXY COVE BASE** INT WALL CONDITION - WALL TYPE PER PLAN **EPY - EPOXY RESIN** • @ SHOWER AREAS - PROVIDE HYDRIFLEX EQ -RB - RUBBER BASE DECORATIVE QUARTZ BROADCAST SYSTEM BY DUR-A-FLEX OR APPROVED EQUAL WD - WOOD (E) - EXISTING SPECIFIED EPOXY FLOOR ARE NON-SLIP. (ESC) - ÉXISTING SEALED CONCRETE) 2 SEE SPECIFICATION SECTION 09 67 26 SC - SEALED CONCRETE

(GYP)

GYP

(E)

ROOM FINISH MATERIALS KEY

ROOM FINISH SCHEDULE COLUMN REFERENCE GUIDE

ROOM LOCATION: LOCATION OF ROOM IN BUILDING COMPLEX, I.E., FIRST FLOOR, THIRD FLOOR, AREA A, AREA B, BUILDING A, BUILDING B, ETC.

(E)

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- 2. ROOM NUMBER: SPECIFIC NUMBER ASSIGNED TO INDIVIDUAL ROOM.
- 3. ROOM NAME: DESIGNATES SPECIFIC USAGE OF SPACE.

ROOM

WOMEN SHOWER AREA

MEN SHOWER AREA

CONCESSION

101 WOMEN

103 JANITOR

105 OFFICE

106 CLOSET

107 CLOSET

102

NAME

- 4. FLOOR MATERIAL: DESIGNATES BASE FLOOR MATERIAL, I.E., LINO-LINOLEUM, CPT-CARPET TILE, SV-SHEET VINYL (HOMOGENEOUS) CONC.-CONCRETE, ETC.
- BASE FINISH: DESIGNATES BASE FINISH, I.E., RESIL RESILIENT, CER CERAMIC TILE, CTS CERAMIC TILE SANITARY COVE, ETC.
- WALL MATERIALS: DESIGNATES MATERIAL FROM WHICH WALLS ARE CONSTRUCTED, I.E., CONC -CONCRETE, CMU - CONCRETE MASONRY UNIT, GYP - GYPSUM BOARD, ETC. NUMERICAL DESIGNATION OF WALL REFERS TO WALL NUMBER ORIENTATION DEFINED BY AREA IDENTITY SHOWN ON PLAN.
- CEILING MATERIAL AND HEIGHT: DESIGNATES MATERIAL FROM WHICH CEILING IS CONSTRUCTED, I.E., G.B. - GYPSUM BOARD, ACT - ACOUSTICAL CEILING TILE, S.G. COAT-SEMI-GLOSS COATING, F.A. PNT-FACTORY APPLIED PAINT, PBD V.- PARTICLE BOARD VENEER, M.F.-MINERAL FIBER, AND THE HEIGHT OF THE FINISHED CEILING FROM THE FINISHED FLOOR LINE EXPRESSED IN FEET AND INCHES.
- WAINSCOT MATERIAL AND HEIGHT: DESIGNATES ANY WAINSCOTING MATERIAL, I.E., CER CERAMIC TILE, QT- QUARRY TILE, VWC - VINYL WALLCOVERING, ETC., AND HEIGHT OF WAINSCOT MATERIAL FROM FINISHED FLOOR LINE EXPRESSED IN FEET AND INCHES.
- 9. FINISHES: DESIGNATES FINAL FINISH OF FLOOR, WALL & CEILING, I.E., CPT CARPET TILE, PNT PAINT, VCT - VINYL COMPOSITION TILE, FRP - FIBER REINFORCED PLASTIC, SLD - SEALED, VWC - VINYL WALL COVERING, FBC-FIBER CEMENT BOARD, LINO-LINOLEUM
- 10. REMARKS: DESIGNATES OR REFERENCES SPECIAL, UNUSUAL OR ABSTRACT CONDITIONS WHICH EXIST AND ARE NOT COVERED IN SCHEDULE ITEMS 1 THRU 9. REFER TO REMARKS REFERENCE SCHEDULE FOR ALPHANUMERICAL DESIGNATION.

DOOR & FRAME MATERIALS KEY

HM - HOLLOW METAL

LAM - LAMINATED GLASS SS - STAINLESS STEEL

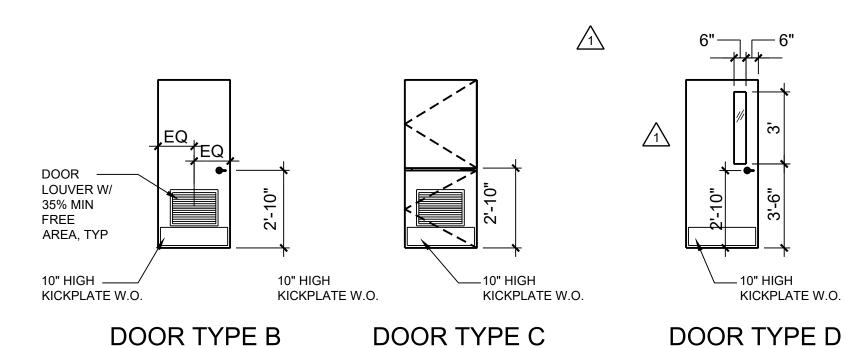
TG - TEMPERED GLASS

WG - WIRE GLASS

WD - WOOD

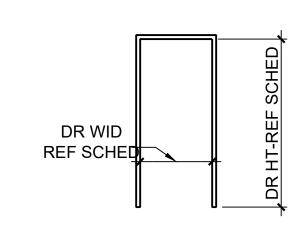
(E) - EXISTING

DOOR AND FRAME TYPES



DOOR TYPE D DOOR TYPE C

1.- OPERABLE PARTS OF DOORS AND GATES SHALL BE 34" MIN. TO 44" MAX. A.F.F. 2.- OPERABLE PARTS ON DOORS AND GATES SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAXIMUM.



REF SCHED

DOOR TYPE 1

FRAME TYPE 2 (DUTCH DOOR)

SEE SPECIFICATIONS FOR DOOR HARDWARE



2600 TENTH STREET, SUITE 700 BERKELEY, CA 94710-2597

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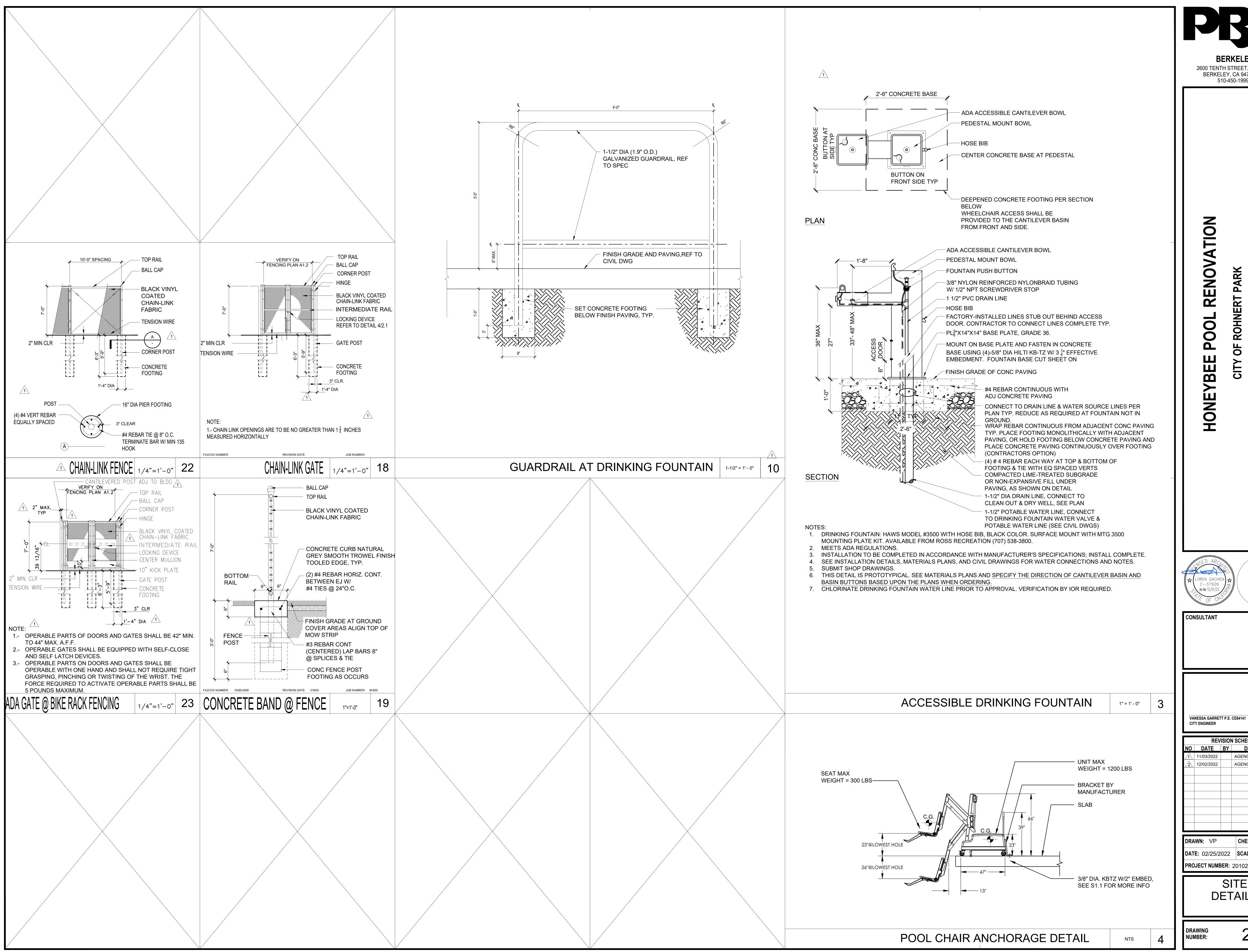
CONSULTANT

VANESSA GARRETT P.E. CE84141

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Λ	11/03/2022		AGENCY PLAN REVIEW		
<u>/2</u> \	12/02/2022		AGENCY PLAN REVIEW		

DATE: 02/25/2022 **SCALE**: PROJECT NUMBER: 2010200

ROOM FINISH SCH. DOOR & FRAME SCH



BERKELEY 2600 TENTH STREET, SUITE 700

BERKELEY, CA 94710-2597 510-450-1999 P

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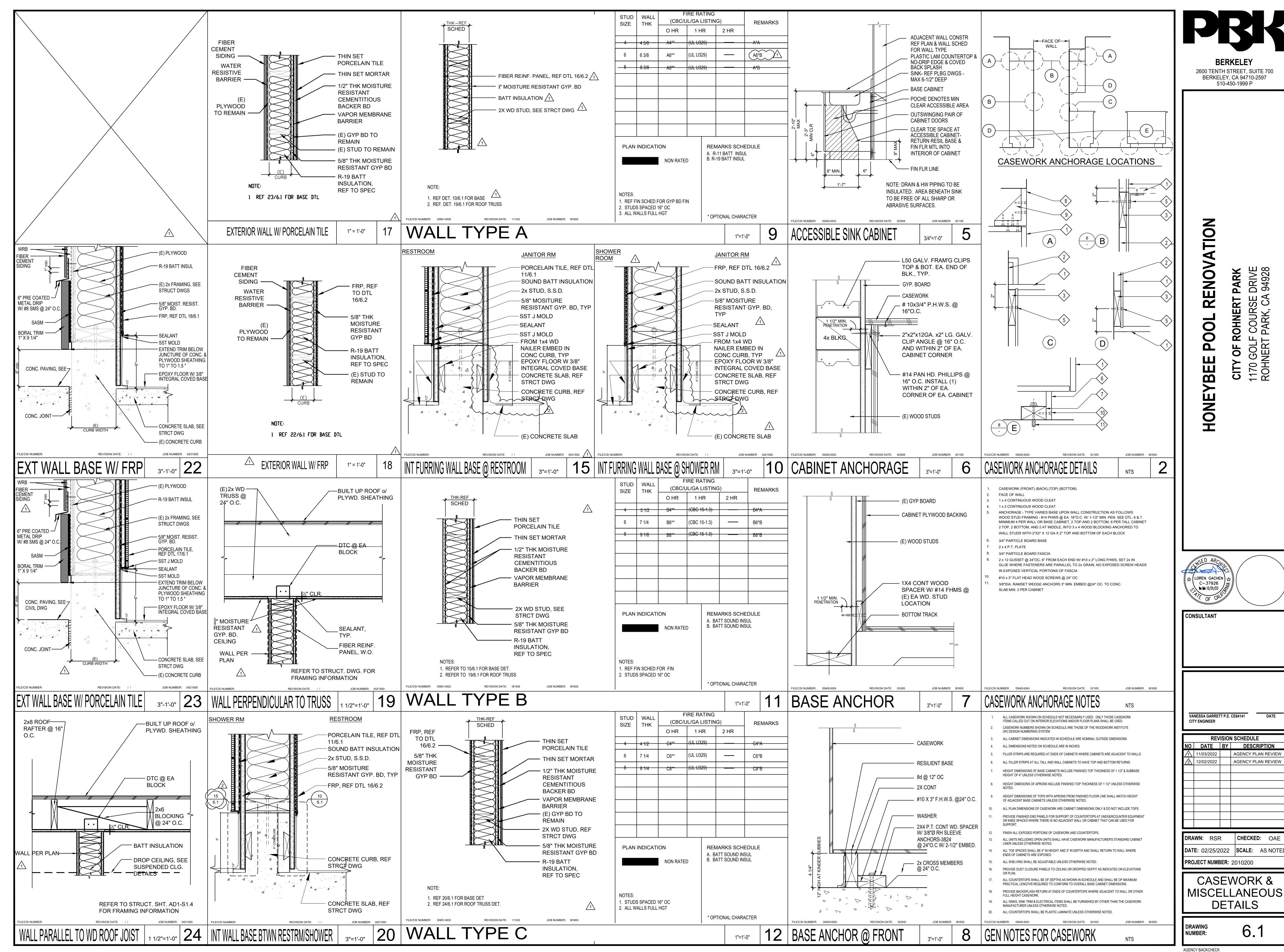
C-37926 Ren. Date: 12/31/23

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2	12/02/2022		AGENCY PLAN REVIEW				

DATE: 02/25/2022 | SCALE: NONE PROJECT NUMBER: 2010200

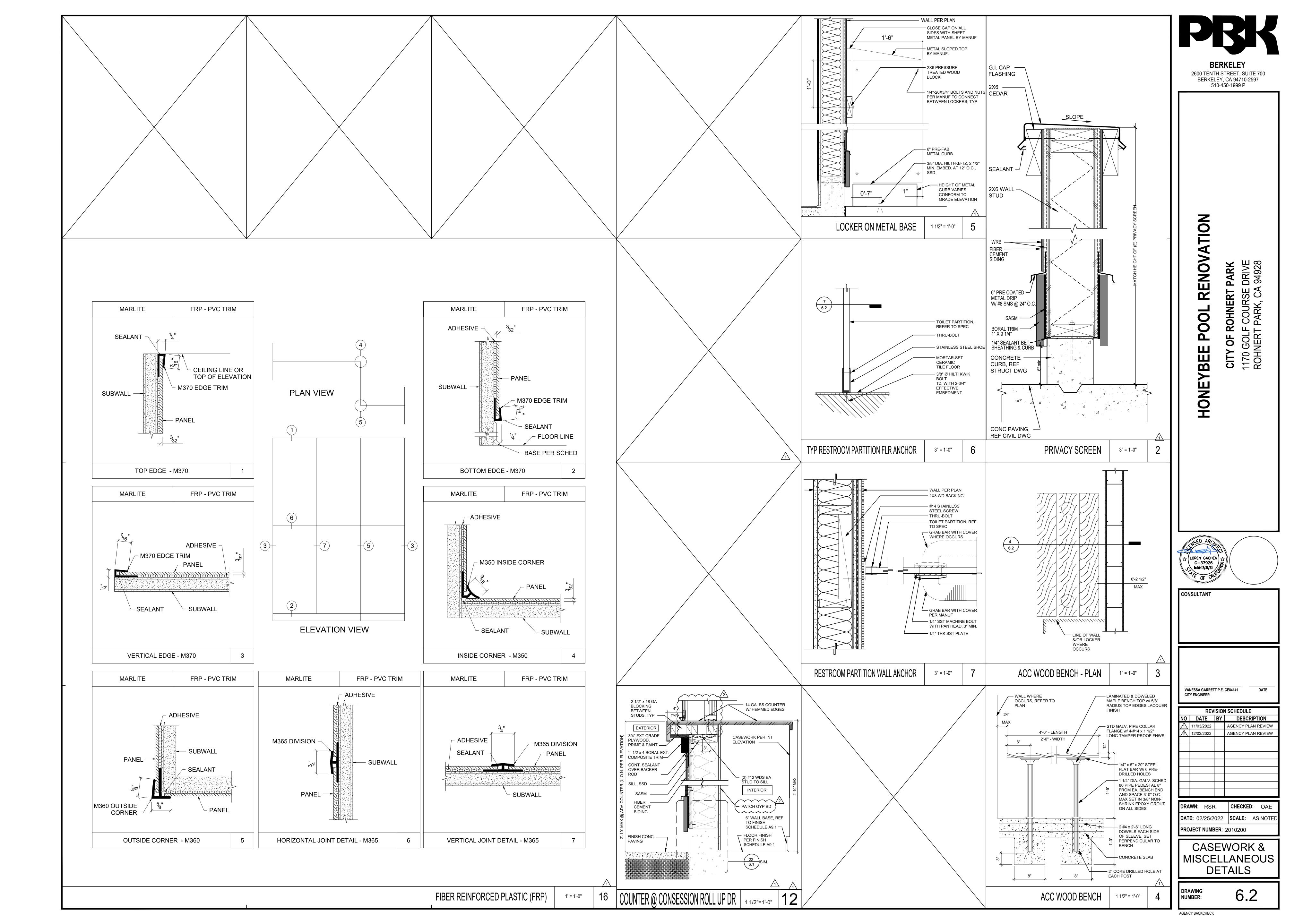
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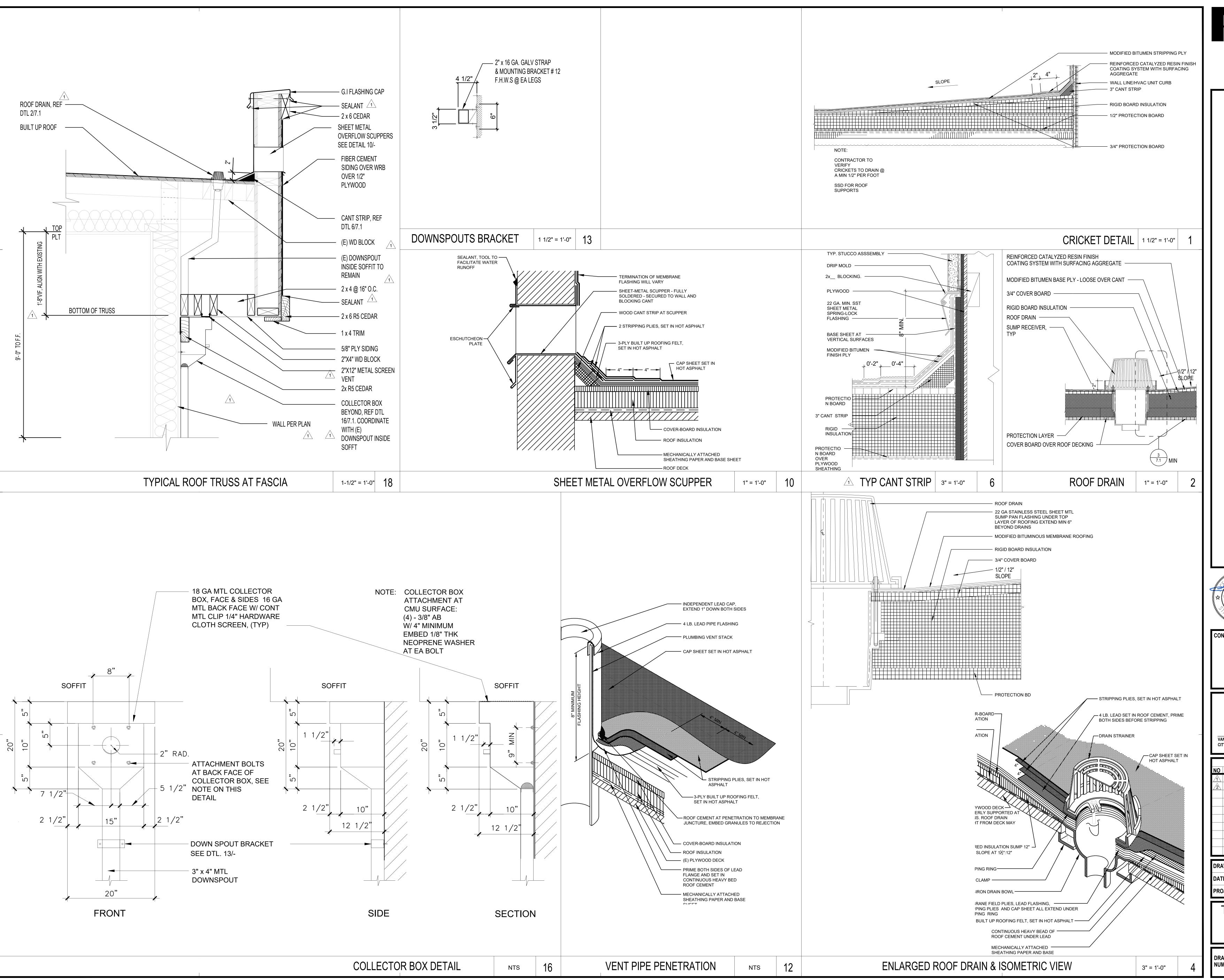


NO DATE BY DESCRIPTION AGENCY PLAN REVIEW AGENCY PLAN REVIEW

CHECKED: OAE

CASEWORK & MISCELLANEOUS







BERKELEY

2600 TENTH STREET, SUITE 700
BERKELEY, CA 94710-2597

BERKELEY, CA 94710-2597 510-450-1999 P

BEE POOL RENOVATION

HONE

CITY OF ROHNERT PARK 1170 GOLF COURSE DRIVE ROHNERT PARK, CA 94928

LOREN GACHEN C-37926

Ren Dile 12/31/23

OF CALLERS

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CONSULTANT

VANESSA GARRETT P.E. CE84141 DATE CITY ENGINEER

	REVISION SCHEDULE						
NO	DATE	BY	DESCRIPTION				
1	11/03/2022		AGENCY PLAN REVIEW				
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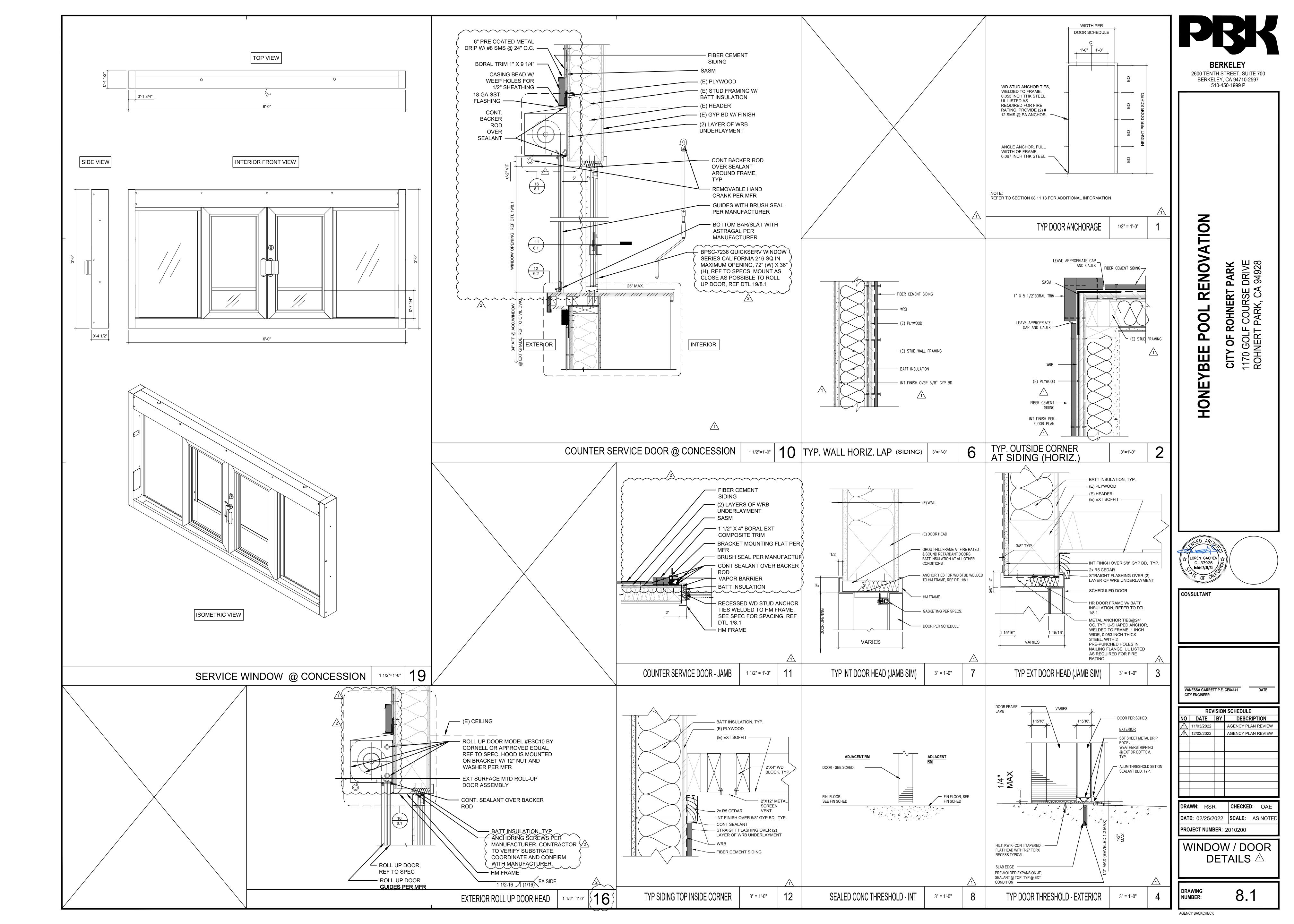
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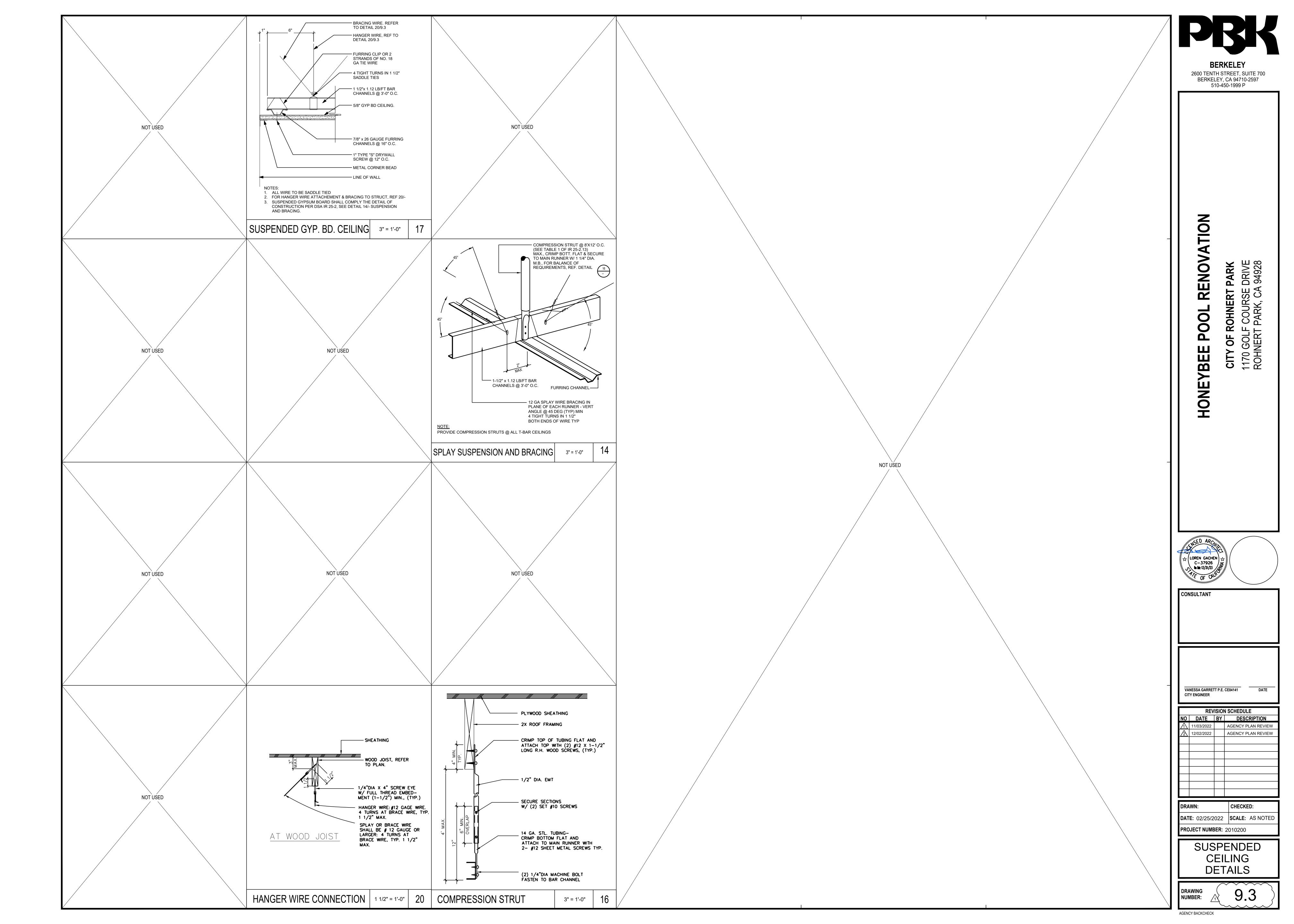
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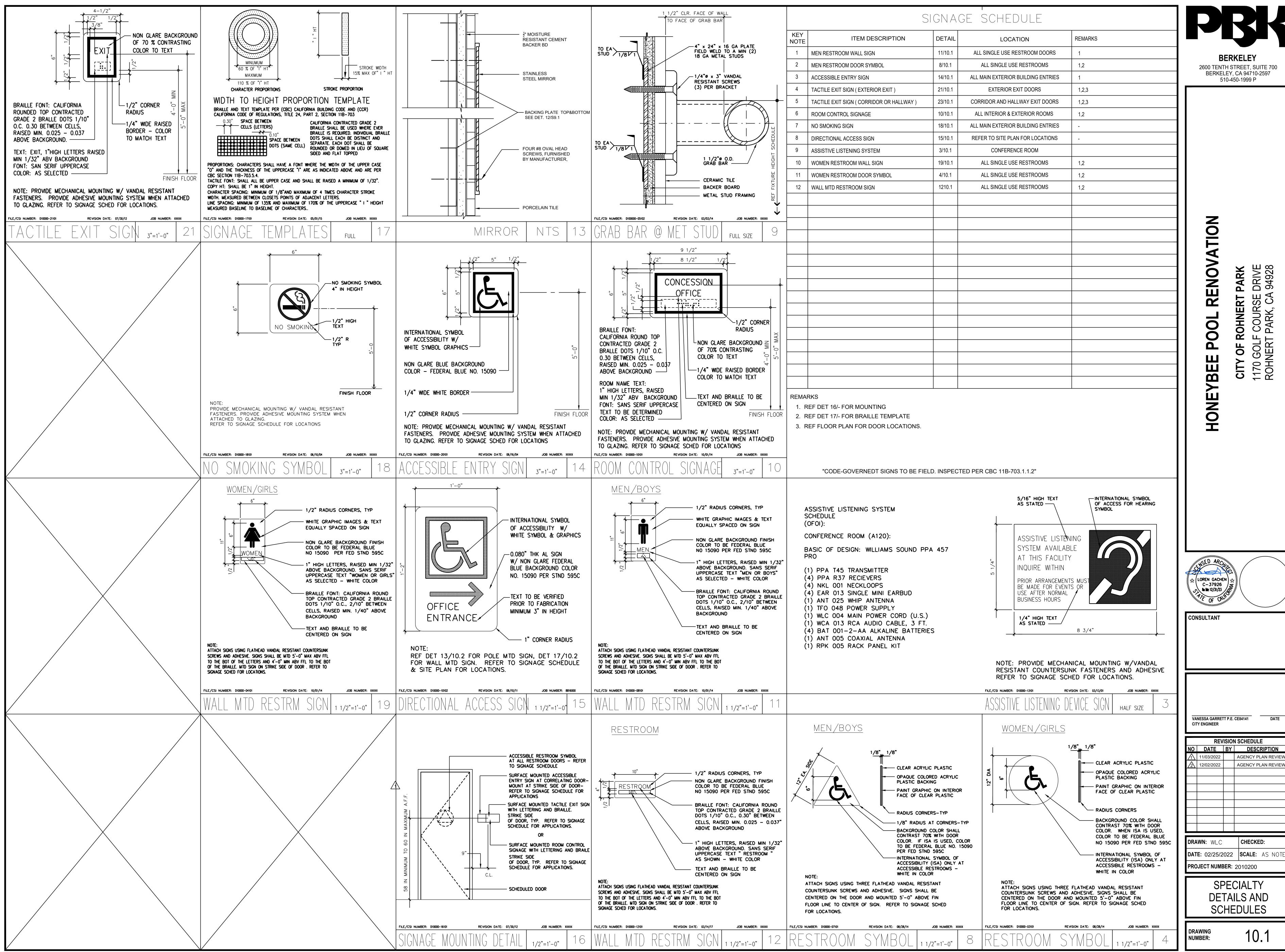
PROJECT NUMBER: 2010200

THERMAL AND MOISTURE PROTECTION

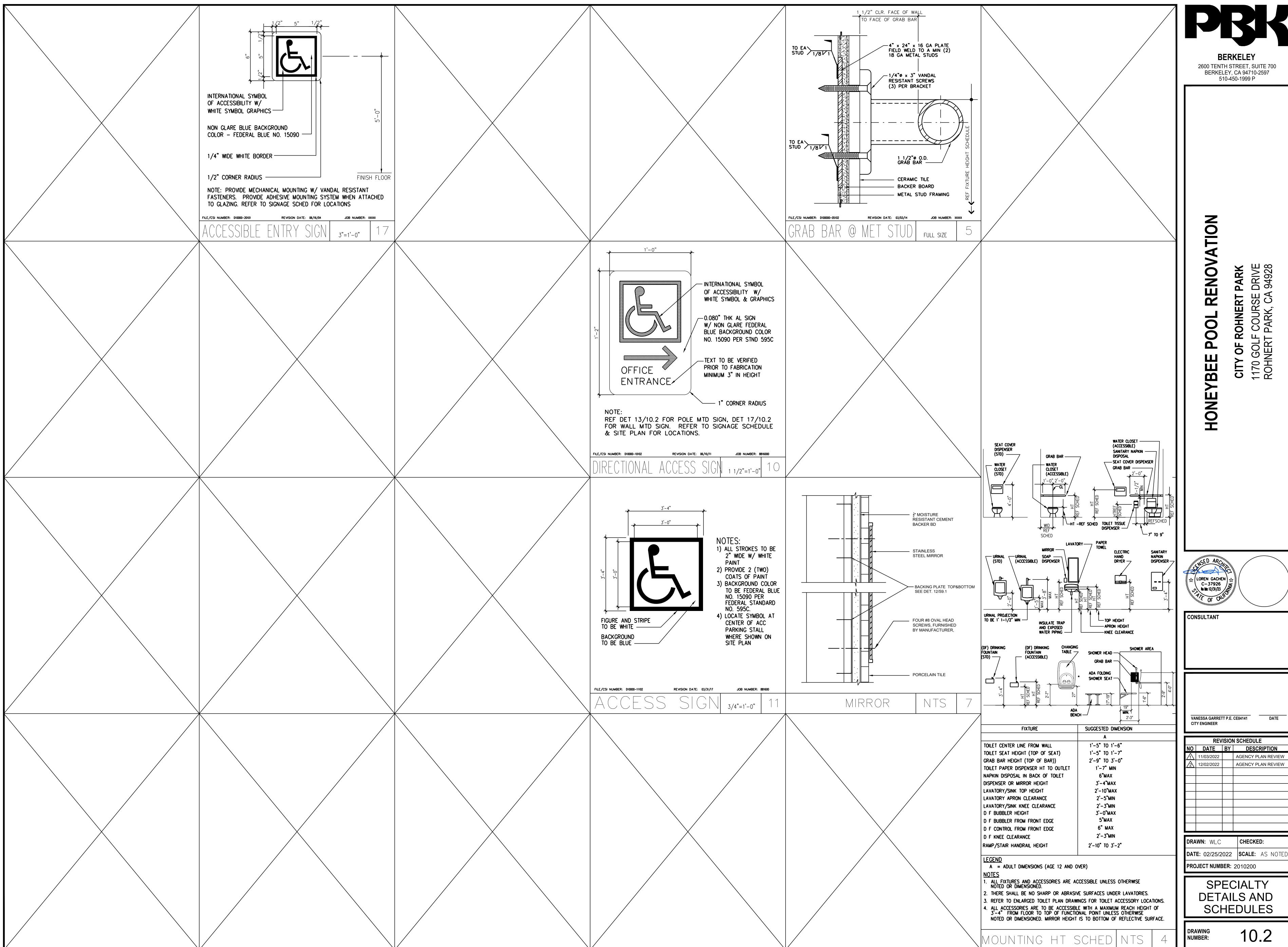
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NO DATE BY DESCRIPTION AGENCY PLAN REVIEW AGENCY PLAN REVIEW



GENERAL CIVIL NOTES

GENERAL:

- 1. ALL PERMITS WILL BE SECURED BY THE CONTRACTOR AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH THE CONDITIONS AND REQUIREMENTS OF THE PERMITS.
- 2. THE CONTRACTOR SHALL TAKE EFFECTIVE ACTION TO PREVENT THE FORMATION OF AN AIRBORNE DUST NUISANCE AND SHALL BE RESPONSIBLE FOR DAMAGE RESULTING FROM THEIR FAILURE TO DO SO.
- 3. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAGMEN OR OTHER DEVICES NECESSARY TO PROVIDE FOR
- 4. THE CONTRACTOR SHALL POST EMERGENCY TELEPHONE NUMBERS FOR THE POLICE, FIRE AMBULANCE, AND THOSE AGENCIES RESPONSIBLE FOR MAINTENANCE OF UTILITIES IN THE VICINITY OF THE JOB SITE.
- 5. LENGTHS OF SANITARY SEWERS AND STORM DRAINS SPECIFIED ARE HORIZONTAL DISTANCES AS MEASURED FROM CENTERS OF STRUCTURES ROUNDED TO THE NEAREST FOOT.
- 6. EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF PREPARATION OF THESE PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. THE CONTRACTOR SHALL PERFORM AT THEIR EXPENSE A FIELD OBSERVATION LOCATING ALL EXISTING UTILITIES INCLUDING ELEVATIONS AND NOTIFY THE OWNER AND THE ENGINEER OF ANY CONFLICTS PRIOR TO CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTING LOCATIONS OF UTILITIES SHOWN ON THESE PLANS. ANY ADDITIONAL COST INCURRED AS A RESULT OF THE CONTRACTOR'S FAILURE TO VERIFY LOCATIONS OF THE EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION SHALL BE BORNE BY THE CONTRACTOR
- 7. CONTRACTOR TO VERIFY ALL EXISTING INVERT ELEVATIONS FOR STORM DRAIN AND SANITARY SEWER CONSTRUCTION PRIOR TO ANY WORK. ALL WORK FOR STORM DRAIN AND SANITARY SEWER INSTALLATION SHALL BEGIN AT THE DOWNSTREAM CONNECTION POINT. THIS WILL ALLOW FOR ANY NECESSARY ADJUSTMENTS TO BE MADE PRIOR TO THE INSTALLATION OF THE ENTIRE LINE. IF THE CONTRACTOR FAILS TO BEGIN AT THE DOWNSTREAM CONNECTION POINT AND WORKS UPSTREAM, HE SHALL PROCEED AT HIS OWN RISK AND BE RESPONSIBLE FOR ANY ADJUSTMENTS NECESSARY.
- 8. CONTRACTOR SHALL UNCOVER AND EXPOSE ALL EXISTING UTILITY AND SEWER LINES WHERE THEY ARE CROSSED ABOVE OR BELOW BY THE NEW FACILITY BEING CONSTRUCTED IN ORDER TO VERIFY THE GRADE AND TO ASSURE THAT THERE IS SUFFICIENT CLEARANCE. PIPES SHALL NOT BE STRUNG NOR TRENCHING COMMENCED UNTIL ALL CROSSINGS HAVE BEEN VERIFIED FOR CLEARANCE. IF THE CONTRACTOR FAILS TO FOLLOW THIS PROCEDURE HE WILL BE SOLELY RESPONSIBLE FOR ANY EXTRA WORK OR MATERIAL REQUIRED IF MODIFICATIONS TO THE DESIGN ARE NECESSARY.
- 9. ALL EXISTING UTILITIES AND IMPROVEMENTS THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED TO THE SATISFACTION OF THE OWNER AT THE CONTRACTOR'S SOLE EXPENSE.
- 10. CONTRACTOR TO TAKE NECESSARY PRECAUTIONARY MEASURES TO PREVENT SOIL EROSION AND SEDIMENTATION. EXISTING AND PROPOSED DRAINAGE STRUCTURES TO BE TEMPORARILY COVERED WITH FILTER FABRIC OR EQUAL UNTIL SURROUNDING PAVEMENT IS
- 11. ANY RELOCATION OF UTILITIES SHALL BE COORDINATED WITH THE OWNER AND CONDUCTED IN ACCORDANCE WITH ANY AND ALL REQUIREMENTS OF THE OWNER, INCLUDING FEES, BONDS. PERMITS AND WORKING CONDITIONS, ETC. THE OWNER SHALL PAY THE FEES, BONDS, AND FILE THE APPROPRIATE PERMITS FOR ALL SUCH RELOCATION WORK. ALL ON- SITE UTILITY WORK IS THE RESPONSIBILITY OF THE CONTRACTOR (MATERIALS AND INSTALLATION).
- 12. IF ARCHAEOLOGICAL MATERIALS ARE UNCOVERED DURING GRADING. TRENCHING OR OTHER EXCAVATION, EARTHWORK WITHIN 100 FEET OF THESE MATERIALS SHALL BE STOPPED UNTIL A PROFESSIONAL ARCHAEOLOGIST WHO IS CERTIFIED BY THE SOCIETY OF CALIFORNIA ARCHAEOLOGY (SCA) AND/OR THE SOCIETY OF PROFESSIONAL ARCHAEOLOGY (SOPA) HAS HAD AN OPPORTUNITY TO EVALUATE THE SIGNIFICANCE OF THE FIND AND SUGGEST APPROPRIATE MITIGATION MEASURES, IF THEY ARE DEEMED NECESSARY.
- 13. THESE PLANS DO NOT SPECIFY NOR RECOMMEND THE USE OR INSTALLATION OF ANY MATERIAL OR EQUIPMENT WHICH IS MADE FROM, OR WHICH CONTAINS ASBESTOS FOR USE IN THE CONSTRUCTION OF THESE IMPROVEMENTS. ANY PARTY INSTALLING OR USING SUCH MATERIALS OR EQUIPMENT SHALL BE SOLELY RESPONSIBLE FOR ALL INJURES. DAMAGES, OR LIABILITIES, OF ANY KIND, CAUSED BY THE USE OF SUCH MATERIALS, OR EQUIPMENT. NOTIFY OWNER WHEN DISCOVERING ASBESTOS MATERIALS. REFER TO SPECIFICATION 'HAZARDOUS MATERIALS PROCEDURES AND CONTROL' AND 'HAZARDOUS MATERIALS ABATEMENT AND CONTROL.'
- 14. THE CONTRACTOR SHALL MEET AND FOLLOW ALL (NPDES) NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM REQUIREMENTS IN EFFECT AT THE TIME OF CONSTRUCTION.
- 15. SHOULD IT APPEAR THAT THE WORK TO BE DONE OR ANY MATTER RELATIVE THERETO IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.
- 16. CONTRACTOR SHALL ARRANGE, INSTALL, AND PAY FOR ANY TEMPORARY UTILITIES, INCLUDING BUT NOT LIMITED TO TELEPHONE, ELECTRIC, SEWER, WATER, ETC.. THE CONTRACTOR IS TO COORDINATE ANY SUCH UTILITY NEEDS WITH THE OWNER.
- 17. ALL SITE AREAS SHALL BE GRADED AT 1% MINIMUM FOR DRAINAGE UNLESS OTHERWISE NOTED OR ALONG FLOWLINES OF CONCRETE LINED GUTTERS AND VALLEY GUTTERS.
- 18. ESTIMATED EARTHWORK QUANTITIES SHOWN ARE APPROXIMATE ONLY AND SHOWN FOR THE PURPOSES OF ESTIMATING GRADING
- 19. WHERE EXISTING STRUCTURES ARE TO REMAIN IN CONSTRUCTION ZONE AREA, CONTRACTOR SHALL ADJUST RIMS OF THESE

PERMIT FEES, HOHBACH-LEWIN ASSUMES NO LIABILITY FOR THE ACCURACY OF THESE QUANTITIES.

- STRUCTURES, I.E. CATCH BASINS, VALVE BOXES, CLEAN OUTS, UTILITY BOXES, ETC. TO NEW FINISH GRADE.

 20. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT FOR NORTHERN CALIFORNIA AT LEAST 48 HOURS (2 WORKING DAY)
- PRIOR TO COMMENCEMENT OF CONSTRUCTION. (800) 227-2600.

 21. THE ORGANIC MATERIAL COVERING THE SITE SHALL BE STRIPPED AND STOCKPILED. THE STRIPPINGS SHALL BE USED TO BACKFILL ALL LANDSCAPE PLANTERS AND ROUGH GRADE MOUND AREAS, AS SHOWN ON LANDSCAPE DRAWINGS, TO WITHIN 1" OF GRADES SHOWN.
- EXCESS STRIPPINGS AND EXCAVATED MATERIAL SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR.

 22. ADJUSTMENTS TO PAD ELEVATIONS OR PARKING LOT GRADES TO ACHIEVE EARTHWORK BALANCE SHALL BE MADE ONLY WITH
- 23. COMPACTION TO BE DETERMINED USING ASTM D1557-LATEST EDITION.

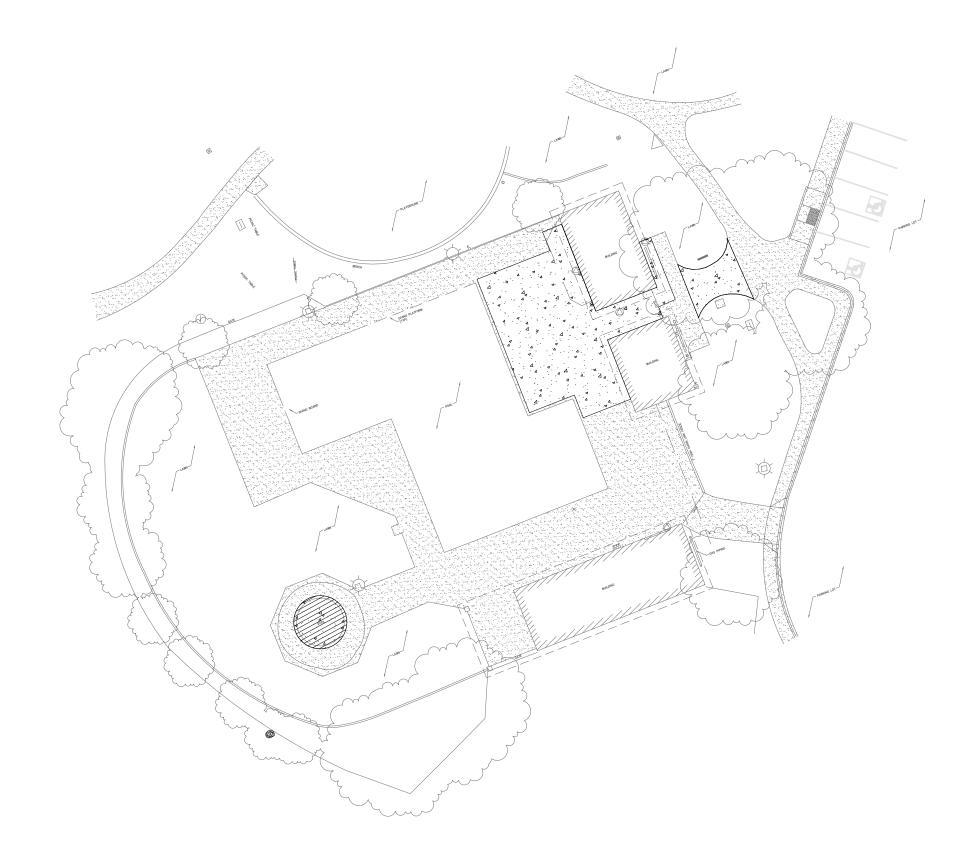
APPROVAL OF THE ENGINEER.

- 24. STORM DRAIN PIPES DESIGNATED AS SD FROM 4" TO 24" IN DIAMETER SHALL BE SDR-35 PVC. (GREEN-TITE PIPE BY MANVILLE OR APPROVED EQUAL), CLASS HDPE SMOOTH INTERIOR PIPE PER ASTM D3212 HANCOR SURE-LOK WT PIPE OR APPROVED EQUAL WITH CLASS 1 BACKFILL OR DUCTILE IRON PIPE DIP, IF SPECIFIED ON PLANS. NO MATERIAL SUBSTITUTE SHALL BE ALLOWED FOR DUCTILE IRON PIPE. ANY PIPES LARGER THAN 24" IN DIAMETER SHALL BE CLASS III REINFORCED CONCRETE PIPE RCP. PVC PIPE EXCEEDING 24" DIAMETER SHALL ONLY BE USED WHEN APPROVED BY MANUFACTURER IN THIS JURISDICTION.
- 25. PROPOSED SPOT GRADES (ELEVATIONS) SHOWN HEREON ARE FINISHED PAVEMENT GRADES, NOT TOP OF CURB GRADES, UNLESS
- 26. THE CONTRACTOR SHALL VERIFY THE CONTENTS AND THICKNESS OF THE BUILDING SLAB SECTION (IE: CONCRETE, SAND, ROCK) WITH THE STRUCTURAL PLANS AND THE ELEVATIONS SHOWN HEREON PRIOR TO COMMENCEMENT OF GRADING.
- 27. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE O.S.H.A. REGULATIONS.
- 28. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.
- 29. WHERE OFF-SITE DRIVEWAY APPROACHES ARE TO BE CONSTRUCTED THE ON-SITE DRIVEWAY SHALL NOT BE CONSTRUCTED UNTIL THE OFF-SITE IMPROVEMENTS ARE INSTALLED. THE ON-SITE DRIVEWAY SHALL CONFORM TO THE COMPLETED OFF-SITE DRIVEWAY.

IMPROVEMENT PLANS

=OR

HONEYBEE POOL RENOVATION 1170 GOLF COURSE DR. ROHNERT PARK, CA 94928



GENERAL NOTES CONTINUATION

GRADING NOTE

- 1. UNDERGROUND UTILITY LOCATIONS SHOWN HEREON WERE TAKEN FROM RECORD DATA. NO GUARANTEE IS MADE OR IMPLIED AS TO THE ACCURACY OF SUCH RECORD DATA. NO EXCAVATIONS WERE MADE TO CONFIRM LOCATIONS. CONTRACTORS ARE CAUTIONED TO CONTACT U.S.A. UNDERGROUND AND TO EXERCISE EXTREME CARE IN VERIFYING ALL LOCATIONS PRIOR TO COMMENCING EXCAVATIONS OR OTHER WORK WHICH MAY AFFECT THESE UTILITIES.
- 2. IRRIGATION LATERALS, PARKING LOT LIGHTING WIRING AND SIGNAL WIRING NOT SHOWN. VERIFY LOCATION BEFORE COMMENCING TRENCHING. REPLACE OR REPAIR IMMEDIATELY WHERE BROKEN TO PROVIDE UNINTERRUPTED SERVICE.
- 3. ALL FINISH GRADES SHOWN ARE FINISH GRADE ELEVATIONS UNLESS NOTED OTHERWISE.

UTILITY NOTES:

- 1. THIS SURVEY IS NOT INTENDED TO REPRESENT THE EXACT LOCATIONS, SIZES OR EXTENT OF THE UTILITIES WITHIN THE AREA ENCOMPASSED BY THIS SURVEY. THEREFORE, IT IS THE RESPONSIBILITY OF THE OWNER AND/OR CONTRACTOR TO VERIFY THE LOCATION, SIZE AND EXTENT OF ANY EXISTING UTILITIES PRIOR TO DESIGN OR CONSTRUCTION. CONTRACTORS ARE CAUTIONED TO CONTACT U.S.A. UNDERGROUND AND TO EXERCISE EXTREME CARE IN VERIFYING ALL LOCATIONS PRIOR TO COMMENCING EXCAVATIONS OR OTHER WORK WHICH MAY AFFECT THESE UTILITIES.
- 2. IRRIGATION LATERALS, PARKING LOT LIGHTING WIRING AND SIGNAL WIRING NOT SHOWN. VERIFY LOCATION BEFORE COMMENCING TRENCHING. REPLACE OR REPAIR IMMEDIATELY WHERE BROKEN TO PROVIDE UNINTERRUPTED SERVICE.
- 3. UTILITY ABANDONMENT/REMOVAL: DISCONNECT AND CAP PIPES AND SERVICES TO REMAIN. REMOVE ALL PORTIONS OF ALL UTILITIES WITHIN NEW BUILDING FOOTPRINT AND DISPOSE OF OFF-SITE. OTHERWISE ABANDON IN PLACE UNLESS NOTED OTHERWISE.
- 4. NOTIFY THE ENGINEER IMMEDIATELY OF ANY UTILITIES ENCOUNTERED THAT ARE NOT SHOWN ON THE DRAWINGS. PRESERVE AND REPAIR ANY UTILITIES THAT ARE DAMAGED AND THAT ARE TO REMAIN.
- 5. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CROSSINGS OF NEW UTILITIES WITH EACH OTHER, AND WITH EXISTING UTILITIES. VERIFY EXISTING PIPE LOCATION AND INVERT PRIOR TO INSTALLING NEW UTILITIES. NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES OR DEVIATIONS.
- 6. PRIOR TO CONNECTING TO EXISTING UTILITIES FIELD VERIFY LOCATION 6. & INVERT OR DEPTH PRIOR TO INSTALLING NEW PIPE OR
- 7. EACH BUILDING WATER SERVICE CONNECTION SHALL BE WITH VALVE AND VALVE BOX SET AT GRADE.
- 8. ALL BUILDING SEWER LATERALS SHALL BE WITH CLEANOUT TO GRADE.
- 9. ALL CATCH BASINS WITHIN VEHICULAR AREAS SHALL BE TRAFFIC RATED FOR H20 VEHICULAR LOADS. FOR CATCH BASINS IN WALKWAY AREAS, INCLUDING EXISTING CATCH BASINS, USE HEEL PROOF AND ADA GRATE.

LEGEND BOUNDARY LINES

EASEMENT LINE ADJACENT PROPERTY LINE MISCELLANEOUS LINES <u>UTILITY LINES</u> ELECTRIC — FO — FO — FIBER OPTIC IRRIGATION LINE NITROGEN GAS RW RECYCLED WATER —— SS ———— SANITARY SEWER —— T ———— T ———— TELEPHONE <u>UTILITY LEGEND</u> FIRE HYDRANT WATER VALVE WATER METER STORM DRAIN MANHOLE BACKFLOW PREVENTER CATCH BASIN AREA DRAIN CLEANOUT TO GRADE FIRE DEPARTMENT CONNECTION

ADA COMPLIANCE:

- 1. ALL NEW WORK SHALL CONFORM TO TITLE 24 OF THE CALIFORNIA ADMINISTRATIVE CODE AND THE AMERICANS WITH DISABILITIES ACT 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN, AND ANY LOCAL OR STATE AMENDMENTS THEREOF.
- 2. ALL NEW CURB RAMPS SHALL NOT EXCEED A SLOPE OF 1:12 (8.33%).
- 3. ALL NEW ENTRANCE WALKS TO THE BUILDINGS SHALL NOT EXCEED A SLOPE OF 1:20 (5%) LONGITUDINALLY UNLESS RAILINGS ARE PROVIDED IN WHICH CASE THE SLOPE SHALL NOT EXCEED 1:12 (8.33%). SEE ARCHITECTURAL PLANS FOR RAILING REQUIREMENTS.
- 4. LANDINGS SHALL BE PROVIDED AT PRIMARY ENTRANCES TO BUILDINGS WITH A 2% MAXIMUM SLOPE THE LANDINGS SHALL HAVE A MINIMUM WIDTH OF 60" AND A MINIMUM DEPTH OF 60" WHEN THE DOOR OPENS INTO THE BUILDING, AND 42" PLUS THE WIDTH OF THE DOOR WHEN THE DOOR OPENS ONTO THE LANDING.
- 5. RAMPS ARE DEFINED AS ANY WALKWAY BETWEEN SLOPES OF 1:20 (5%) AND 1:12 (8.33%), AND SHALL HAVE A MINIMUM WIDTH OF 48" AND A MAXIMUM CROSS-SLOPE OF 2%. RAMPS EXCEEDING 30" VERTICAL DROP SHALL HAVE INTERMEDIATE (2% MAXIMUM SLOPE) LANDINGS HAVING A MINIMUM LENGTH IN THE DIRECTION OF TRAVEL OF 60". BOTTOM LANDINGS AND LANDINGS AT CHANGES IN RAMP DIRECTION SHALL HAVE A MINIMUM LENGTH OF 72".
- 6. MAXIMUM CROSS-SLOPE ON ANY SIDEWALK OR RAMP SHALL BE 2%. MAXIMUM SLOPE IN ANY DIRECTION WITHIN PARKING STALLS DESIGNATED AS ACCESSIBLE PARKING STALL SHALL BE 2%.

AC AD ATT BC BFP BLDG BOW BW BW/FS C CATV CB COTG DI DS E EW EX. (E) ELEC ESMT G GB FF FG	CONCRETE CABLE TV CATCH BASIN CONCRETE CLEANOUT TO GRADE DRAIN INLET DOWN SPOUT ELECTRIC OR EAST EACH WAY EXISTING EXISTING ELECTRIC EASEMENT GAS GRADE BREAK FINISHED FLOOR FINISHED GRADE FLOWLINE FORCE MAIN
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W/FS ATV B ONC OTG S W K. E) LEC SMT B	BOTTOM OF WALL/FINISHED SURFACONCRETE CABLE TV CATCH BASIN CONCRETE CLEANOUT TO GRADE DRAIN INLET DOWN SPOUT ELECTRIC OR EAST EACH WAY EXISTING EXISTING ELECTRIC EASEMENT GAS GRADE BREAK FINISHED FLOOR FINISHED GRADE FLOWLINE FORCE MAIN
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CATV CB CONC COTG DI CS EX EX EX EX ESMT GB F	CABLE TV CATCH BASIN CONCRETE CLEANOUT TO GRADE DRAIN INLET DOWN SPOUT ELECTRIC OR EAST EACH WAY EXISTING EXISTING EXISTING ELECTRIC EASEMENT GAS GRADE BREAK FINISHED FLOOR FINISHED GRADE FLOWLINE FORCE MAIN
CB CONC COTG DI DS EW EXX. ED ESMT GBB F	CATCH BASIN CONCRETE CLEANOUT TO GRADE DRAIN INLET DOWN SPOUT ELECTRIC OR EAST EACH WAY EXISTING EXISTING ELECTRIC EASEMENT GAS GRADE BREAK FINISHED FLOOR FINISHED GRADE FLOWLINE FORCE MAIN
COTG II SS XX. E) LEC SMT GB F	CLEANOUT TO GRADE DRAIN INLET DOWN SPOUT ELECTRIC OR EAST EACH WAY EXISTING EXISTING ELECTRIC EASEMENT GAS GRADE BREAK FINISHED FLOOR FINISHED GRADE FLOWLINE FORCE MAIN
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E) LEC SMT ; ; ;B F	EXISTING ELECTRIC EASEMENT GAS GRADE BREAK FINISHED FLOOR FINISHED GRADE FLOWLINE FORCE MAIN
LEC SMT GB F	ELECTRIC EASEMENT GAS GRADE BREAK FINISHED FLOOR FINISHED GRADE FLOWLINE FORCE MAIN
SMT 6 6 B F	EASEMENT GAS GRADE BREAK FINISHED FLOOR FINISHED GRADE FLOWLINE FORCE MAIN
BB F	GAS GRADE BREAK FINISHED FLOOR FINISHED GRADE FLOWLINE FORCE MAIN
F	FINISHED FLOOR FINISHED GRADE FLOWLINE FORCE MAIN
	FINISHED GRADE FLOWLINE FORCE MAIN
(-	FLOWLINE FORCE MAIN
L	FORCE MAIN
M	
NC	FENCE
S	FINISHED SURFACE
GRN IP	GROUND HIGH POINT
۱V	INVERT
Р	JOINT POLE
F	LINEAR FEET LIP OF GUTTER
IP T	LIGHT
	MAPS
l	NORTH
E	NORTHEAST
IW DC	NORTHWEST ON CENTER
)H	OVERHEAD
)R	OF RECORD
ERF	PERFORATED PIPE
GE OC	PACIFIC GAS & ELECTRIC POINT OF CONNECTION
V	PAVEMENT
RC	RELATIVE COMPACTION
XW.	RECYCLED WATER
RIM S	RIM OF UTILITY OBJECT SOUTH
SD	STORMDRAIN
SE	SOUTHEAST
SJWC	SAN JOSE WATER COMPANY
SS	SANITARY SEWER
SL SW	STREET LIGHT SOUTHWEST
-	TREE
·C	TOP OF CURB
TW	TOP OF WALL
W/FS YP.	TOP OF WALL/FINISHED SURFACE TYPICAL
JON	UNLESS OTHERWISE NOTED
JSA	UNDERGROUND SERVICE ALERT
/G	VALLEY GUTTER
V VM	WATER/WEST/WITH WATER METER
VIVI VTR	WATER METER
MV	WATER VALVE
SHEET	INDEX

C1.1

C3.1

C5.0

C5.0

C6.0

C6.1

NOTES

DETAILS

DETAILS

DEMOLITION PLAN

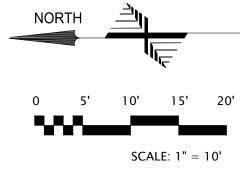
GRADING PLAN

UTILITY PLAN

PAVEMENT PLAN

EROSION CONTROL PLAN

EROSION CONTROL DETAILS





DISCLAIMER: TOPOGRAPHIC INFORMATION, INCLUDING PROPERTY LINES, EASEMENTS, EXISTING GRADES, EXISTING UTILITIES LOCATIONS, ETC., SHOWN ARE FOR GENERAL REFERENCE ONLY AND HAVE BEEN PROVIDED BY OTHERS AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY HOHBACH-LEWIN, INC.

COVER SHEET

CONSULTANT

STRUCTURAL & CIVIL ENGINEER.

(650) 617-5930, Fax (650) 617-5933

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REVISION SCHEDULE

AGENCY PLAN REVIEW

AGENCY PLAN REVIEW

CHECKED: BJH

NO DATE BY DESCRIPTION

VANESSA GARRETT P.E. CE84141

CITY ENGINEER

1\ | 5/25/2022 |

2 12/02/2022

DRAWN: BKB

DATE: 02/25/2022 **SCALE**:

PROJECT NUMBER: 2010200

NUMBER:

BERKELEY

2600 TENTH STREET, SUITE 700 BERKELEY, CA 94710-2597 510-450-1999 P

AGENCY BACKCHECK

ot Date: Dec 5, 2022 - 9:42 AM

- THE LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS PLAN WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. TH CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT. SIZES. LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. (A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES). CONTRACTOR SHALL VERIFY LOCATION AND DEPTH PRIOR TO ANY EXCAVATION OR IMPROVEMENT.
- CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT FOR LOCATION OF UNDERGROUND UTILITIES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION- PHONE (800) 642-2444. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES PRIOR TO BEGINNING ANY WORK ON THIS SITE.
- THESE DRAWINGS DO NOT ADDRESS CONTRACTOR MEANS. METHODS OR PROCESSES THAT MAY BE ASSOCIATED WITH ANY TOXIC SOILS IF FOUND ON SITE. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL CITY AND COUNTY STANDARDS AND APPROPRIATE REGULATIONS IF TOXIC SOILS ARE ENCOUNTERED. CONTRACTOR MUST NOTIFY THE OWNER'S PROJECT MANAGER IMMEDIATELY IF ANY SOILS ARE EVEN SUSPECTED OF BEING

GENERAL SITE NOTES:

- CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING ON THIS WORK AND CONSIDER HE EXISTING CONDITIONS AND SITE CONSTRAINTS IN THE BID. CONTRACTOR SHALL BE IN THE POSSESSION OF AND FAMILIAR WITH ALL APPLICABLE GOVERNING AGENCIES STANDARD DETAILS AND SPECIFICATIONS PRIOR TO SUBMITTING OF A BID.
- ALL WORK IN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO ALL APPLICABLE GOVERNING AGENCIES STANDARD DETAILS & SPECIFICATIONS.
- PRIOR TO BEGINNING WORK, AND AFTER INITIAL HORIZONTAL CONTROL STAKING, CONTRACTOR SHALL FIELD CHECK ALL ELEVATIONS MARKED WITH (E) AND REPORT ANY

DISCREPANCIES GREATER THAN 0.05' TO OWNER'S PROJECT MANAGER.

- DAMAGE TO ANY EXISTING SITE IMPROVEMENTS, UTILITIES AND/OR SERVICES TO REMAIN SHALL BE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL REPAIR AND/OR
- CONTRACTOR SHALL REPLACE ALL STRUCTURES AND GRATE LIDS FOR VAULTS.
- CATCHBASINS, ETC.., WITH VEHICULAR-RATED STRUCTURES IN ALL TRAFFIC ACCESSIBLE CONTRACTOR SHALL MAINTAIN THE EXISTING SITE IN A SAFE AND USABLE MANNER SUCH THAT EMERGENCY VEHICLE ACCESS IS AVAILABLE AT ALL TIMES. CONTRACTOR TO SUPPLY, INSTALL AND MAINTAIN ALL NECESSARY FENCING, GATES, SIGNAGE, TEMPORARY
- CONTRACTOR TO BE RESPONSIBLE FOR OBTAINING ALL NECESSARY & REQUIRED PERMITS FOR THIS WORK.

WALKWAYS, AND PROVISIONS FOR ENSURING THE PROJECT'S SECURITY AND SAFE

PASSAGEWAY AROUND IT BY CAMPUS STAFF, STUDENTS AND VISITORS AT ALL TIMES.

NOTIFICATION PRIOR TO THE START OF THE WORK MUST BE GIVEN TO THE

UNDERGROUND SERVICE ALERT (USA).

- CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING APPROVAL FROM DISTRICT PERSONNEL AND PROJECT ARCHITECT FOR THE LOCATION OF ALL STAGING, STORAGE, CONSTRUCTION OFFICE AND LAY DOWN AREAS.
- CONSTRUCTION HOURS TO BE VERIFIED AND APPROVED BY DISTRICT AND LOCAL
- CONTRACTOR MUST HAVE OWNER'S REPRESENTATIVE OR ENGINEER/ARCHITECT FIELD
- REVIEW AND APPROVE FORMWORK PRIOR TO PLACING SITE CONCRETE FOR CURBS, RAMPS, STAIRS, WALKS, DRIVEWAYS AND RELATED FLATWORK. 12. IF ARCHEOLOGICAL MATERIALS ARE UNCOVERED DURING GRADING, TRENCHING OR OTHER ON-SITE EXCAVATION, ALL WORK ON THE SITE SHALL BE STOPPED AND THE CITY IMMEDIATELY NOTIFIED. THE COUNTY CORONER & THE NATIVE AMERICAN HERITAGE COMMISSION SHALL ALSO BE NOTIFIED AND PROCEDURES FOLLOWED AS REQUIRED IN
- CONTRACTOR TO COORDINATE WITH SCHOOL PERSONNEL AND ENSURE HIS/HER WORK DOES NOT IMPACT SCHOOL OPERATION AND TRAFFIC CIRCULATION OF BUSSES, EMERGENCY VEHICLES, STAFF AND STUDENT VEHICLES.

APPENDIX "K" OF THE CALIFORNIA ENVIRONMENTAL ACT.

SITE MAINTENANCE:

- CONTRACTOR SHALL: GATHER ALL CONSTRUCTION DEBRIS ON A REGULAR BASIS AND PLACE IT IN A DUMPSTER OR OTHER CONTAINER WHICH IS EMPTIED OR REMOVED ON A REGULAR BASIS. WHEN APPROPRIATE, USE TARPS ON THE GROUND TO COLLECT FALLEN DEBRIS OR SPLATTERS THAT COULD CONTRIBUTE TO STORM WATER RUNOFF POLLUTION.
- REMOVE ALL DIRT, GRAVEL, RUBBISH, REFUSE, AND GREEN WASTE FROM STREET PAVEMENT AND STORM DRAINS ADJOINING THE SITE. LIMIT CONSTRUCTION ACCESS ROUTES ONTO THE SITE AND PLACE GRAVEL PADS AT THESE LOCATIONS. DO NOT DRIVE VEHICLES AND EQUIPMENT OFF THE PAVED OR GRAVELED AREAS DURING WET WEATHER.
- SWEEP OR VACUUM THE STREET PAVEMENT AND SIDEWALKS ADJOINING THE PROJECT ITE AND THE ON-SITE PAVED AREAS ON A DAILY BASIS. SCRAPE CAKED-ON MUD AND DIRT FROM THESE AREAS BEFORE SWEEPING. CORNERS AND HARD TO REACH AREAS SHALL BE SWEPT MANUALLY.
- IF THE STREETS, SIDEWALKS AND/OR PARKING LOT ARE PRESSURE WASHED, DERRIS MUST BE TRAPPED AND COLLECTED TO PREVENT ENTRY INTO THE STORM DRAIN SYSTEM. NO CLEANING AGENT MAY BE DISCHARGED INTO THE STORM DRAIN. IF ANY CLEANING AGENT OR DEGREASER IS USED, WASH WATER MUST BE COLLECTED AND DISCHARGED TO THE SANITARY SEWER. SUBJECT TO THE APPROVAL OF THE OWNER'S PROJECT MANAGER, OR OTHERWISE DISPOSED OF THROUGH APPROVED DISPOSAL METHODS.
- CREATE A CONTAINED AND COVERED AREA ON THE SITE FOR THE STORAGE OF BAGS, CEMENT, PAINTS, OILS, FERTILIZERS, PESTICIDES, OR OTHER MATERIALS USED ON THE SITE THAT HAVE THE POTENTIAL. OF BEING DISCHARGED INTO THE STORM DRAIN SYSTEM THROUGH EITHER BEING WIND-BLOWN OR IN THE EVENT OF A MATERIAL SPILL.
- NEVER CLEAN MACHINERY, EQUIPMENT OR TOOLS INTO A STREET, GUTTER OR STORM
- ENSURE THAT CEMENT TRUCKS, PAINTERS, OR STUCCO/PLASTER FINISHING CONTRACTORS DO NOT DISCHARGE WASH WATER FROM EQUIPMENT, TOOLS OR RINSE CONTAINERS INTO
- PREVENT DUST FROM LEAVING THE SITE AND ACCUMULATING ON ADJACENT AREAS AS REQUIRED IN THE DUST CONTROL NOTES ON THIS SHEET.
- PREVENT SEDIMENT LADEN STORM RUN-OFF FROM LEAVING THE SITE OR ENTERING STORM DRAIN OR SANITARY SEWER SYSTEMS AS REQUIRED IN THE EROSION AND SEDIMENTATION CONTROL NOTES ON THIS SHEET.
- MAINTAIN EXISTING TREES AND PLANTS THAT ARE TO REMAIN AS REQUIRED BY THE TREE AND PLANT PROTECTION NOTES ON THIS SHEET.

DUST CONTROL:

- WATER TRUCKS SHALL BE PRESENT AND IN USE AT THE CONSTRUCTION SITE. ALL PORTIONS OF THE SITE SUBJECT TO BLOWING DUST SHALL BE WATERED AS OFTEN AS DEEMED NECESSARY BY THE APPROPRIATE GOVERNMENTAL AGENCY IN ORDER TO ENSURE PROPER CONTROL OF BLOWING DUST FOR THE DURATION OF THE PROJECT.
- WATERING ASSOCIATED WITH ON-SITE CONSTRUCTION ACTIVITY SHALL TAKE PLACE BETWEEN THE ESTABLISHED CONSTRUCTION HOURS AND SHALL INCLUDE AT LEAST ONE LATE-AFTERNOON WATERING TO MINIMIZE THE EFFECTS OF BLOWING DUST. ALL PUBLIC STREETS AND MEDIANS SOILED OR LITTERED DUE TO THIS CONSTRUCTION
- ACTIVITY SHALL BE CLEANED AND SWEPT ON A DAILY BASIS DURING THE WORK WEEK, OR AS OFTEN AS DEEMED NECESSARY BY THE OWNER'S ENGINEER/INSPECTOR, TO THE SATISFACTION OF THE CITY'S DEPARTMENT OF PUBLIC WORKS.
- WATERING ON PUBLIC STREETS OR POWER WASHING SEDIMENTATION ON STREETS SHALL NOT OCCUR, UNLESS CONTRACTOR COLLECTS AND FILTERS THE WASH WATER PRIOR TO ITS ENTERING THE CITY'S STORM DRAIN SYSTEM.
- ON-SITE PAVED ACCESS ROADS, PARKING AREAS, AND STAGING AREAS SHALL BE SWEPT DAILY WITH A WATER SWEEPER.
- WITH TARPAULINS OR OTHER EFFECTIVE COVERS. THE SPEED OF ALL VEHICLES DRIVING ON UNPAVED ROADS OR PORTIONS OF THE SITE SHALL BE LIMITED TO 10 MPH.

ALL TRUCKS HAULING SOIL, SAND, AND OTHER LOOSE MATERIALS SHALL BE COVERED

EROSION AND SEDIMENTATION CONTROL NOTES:

- EROSION CONTROL MEASURES ARE INTENDED TO PREVENT SEDIMENT AND DEBRIS FROM ENTERING THE CITY, COUNTY STORM DRAIN SYSTEM, SANITARY SEWER SYSTEM OR FROM LEAVING THE SITE. THE CONTRACTOR SHALL MAKE ADJUSTMENTS IN THE FIELD TO MAKE SURE THAT THIS CONCEPT IS CARRIED OUT.
- EROSION CONTROL FACILITIES AND MEASURES ARE TO BE INSTALLED AND OPERABLE BY OCTOBER 1st AND SHALL CONTINUE IN EFFECT UNTIL DISTURBED AREAS ARE STABILIZED OR UNTIL INSTALLATION OF THE PERMANENT SITE IMPROVEMENTS.
- CONTRACTOR SHALL ASSUME THE CONCEPTS ON THE EROSION CONTROL PLAN, C5.1, ARE SCHEMATIC MINIMUM REQUIREMENTS, THE FULL EXTENT OF WHICH ARE TO BE DETERMINED BY THE CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR THE EXACT DESIGN AND EXTENT OF THE EROSION CONTROL SYSTEM SO THAT IT WORKS WITH THE CONTRACTOR'S INTENDED USE AND MANAGEMENT OF THE CONSTRUCTION SITE, AND IS APPROVAL BY THE APPROPRIATE GOVERNMENTAL AGENCIES.
- ALL EROSION CONTROL FACILITIES SHALL BE INSPECTED BY THE CONTRACTOR AND REPAIRED, AS REQUIRED, AT THE CONCLUSION OF EACH WORKING DAY DURING THE RAINY SEASON. THE CONTRACTOR SHALL INSPECT THE EROSION CONTROL FACILITIES AND MAKE NECESSARY REPAIRS PRIOR TO ANTICIPATED STORMS AND AT REASONABLE INTERVALS DURING STORMS OF EXTENDED DURATION. REPAIRS TO DAMAGED FACILITIES SHALL BE MADE IMMEDIATELY UPON DISCOVERY.
- AS SOON AS PRACTICAL FOLLOWING EACH STORM, THE CONTRACTOR SHALL REMOVE ANY ACCUMULATION OF SILT OR DEBRIS FROM THE EROSION CONTROL SEDIMENT BASINS AND SHALL CLEAR THE OUTLET PIPES OF ANY BLOCKAGE. PROVISION SHALL BE MADE TO ASSURE THAT BORROW AREAS AND STOCK PILED SOILS

THE APPROPRIATE GOVERNMENTAL AGENCIES.

REMOVED AND DISPOSED OF BY THE CONTRACTOR.

ARE PROTECTED FROM EROSION WITH EROSION CONTROL MEASURES SATISFACTORY TO

- ALL STOCKPILE MATERIALS SHALL BE COVERED AND PROTECTED FROM THE ELEMENTS WITH A NON-PERMEABLE PLASTIC MEMBRANE SO AS TO PREVENT SOIL EROSION FROM OCCURRING. THIS COVER SHALL BE SECURED WITH ANCHORS OR WEIGHTS OF SUFFICIENT SIZE AND FREQUENCY TO PREVENT DISRUPTION OR REMOVAL BY WIND OR RAIN. ANCHORAGE AT THE BASE OF THE SLOPE SHALL BE AS INDICATED BY DETAIL ON THIS SHEET. ALL MEMBRANE AND COVERINGS SHALL BE INSPECTED AND MAINTAINED BY THE CONTRACTOR OR HIS REPRESENTATIVE ON A FREQUENT AND REGULAR BASIS. SPECIFICALLY BEFORE AND AFTER ANY INCLEMENT WEATHER, WITH ANY NECESSARY REPAIRS BEING IMMEDIATELY PERFORMED. COVERINGS SHALL REMAIN IN PLACE UNTIL THE STOCKPILE(S) IS READY TO BE REMOVED FROM THE SITE, AT WHICH TIME THEY MAY BE
- EARTHEN BERMS, STRAW-FIBER FILLED TUBES AND/OR GEOTEXTILE FABRIC BARRIER (SILT FENCING) SHALL BE CONSTRUCTED AS SHOWN TO PREVENT OFF-FLOW OF SEDIMENT-LADEN RUNOFF, OR THE EROSION OF BANKS OR ROADWAYS. ALL SUCH TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED BY THE CONTRACTOR AS SOON AS CONSTRUCTION IS COMPLETED AND VEGETATION IS ESTABLISHED. HAY BALES
- ALL PAVED AREAS SHALL BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS, SWEPT ON A REGULAR BASIS, TO THE SATISFACTION OF THE ON-SITE INSPECTORS.
- SWEEP OR VACUUM THE STREET PAVEMENT AND SIDEWALKS ADJOINING THE PROJECT SITE AND THE ON-SITE PAVED AREAS ON A DAILY BASIS OR AS REQUIRED BY THE CITY. SCRAPE CAKED-ON MUD AND DIRT FROM THESE AREAS BEFORE SWEEPING. CORNERS AND HARD TO REACH AREAS SHALL BE SWEPT MANUALLY.
- PERSON RESPONSIBLE FOR EROSION CONTROL IMPLEMENTATION, TO BE DETERMINED.
- WHEEL WASHERS SHALL BE INSTALLED AND USED TO CLEAN ALL TRUCKS AND EQUIPMENT LEAVING THE CONSTRUCTION SITE. IF WHEEL WASHERS CANNOT BE INSTALLED. TIRES OR TRACKS OF ALL TRUCKS AND EQUIPMENT SHALL BE WASHED OFF BEFORE LEAVING THE CONSTRUCTION SITE.

TREE/PLANT PROTECTION NOTES:

- PRIOR TO BEGINNING CONSTRUCTION ON SITE, CONTRACTOR SHALL IDENTIFY, CONFIRM WITH OWNER AND PROTECT EXISTING TREES AND PLANTS DESIGNATED AS TO REMAIN.
- PROVIDE 6 FOOT TALL TREE PROTECTION FENCE WITH DISTINCTIVE MARKING VISIBLE TO CONSTRUCION EQUIPMENT, ENCLOSING DRIP LINES OF TREES DESIGNATED TO REMAIN.
- WORK REQUIRED WITHIN FENCE LINE SHALL BE HELD TO A MINIMUM. AVOID UNNECESSARY MOVEMENT OF HEAVY EQUIPMENT WITHIN FENCED AREA AND DO NOT PARK ANY VEHICLES UNDER DRIP LINE OF TREES. DO NOT STORE EQUIPMENT OR MATERIALS WITHIN FENCE LINE.
- 4. PRIOR TO REMOVING ROOTS AND BRANCHES LARGER THAN 2" IN DIAMETER OF TREES OR PLANTS THAT ARE TO REMAIN. CONSULT WITH THE OWNER'S PROJECT MANAGER.

PUDDLING OR CONTINUOUSLY RUNNING WATER. SHOULD A SPILL OCCUR. STOP WORK IN

- ANY GRADE CHANGES GREATER THAN 6" WITHIN THE DRIPLINE OF EXISTING TREES SHALL NOT BE MADE WITHOUT FIRST CONSULTING THE LANDSCAPE ARCHITECT / CIVIL PROTECT EXISTING TREES TO REMAIN FROM SPILLED CHEMICALS, FUEL OIL, MOTOR OIL, GASOLINE AND ALL OTHER CHEMICALLY INJURIOUS MATERIAL AS WELL AS FROM
- CONTRACTOR SHALL BE RESPONSIBLE TO MITIGATE DAMAGE FROM SPILLED MATERIAL AS WELL AS MATERIAL CLEAN UP. PROVIDE TEMPORARY IRRIGATION TO ALL TREES AND PLANTS THAT ARE IN OR ADJACENT TO CONSTRUCTION AREAS WHERE EXISTING IRRIGATION SYSTEMS MAY BE AFFECTED BY

THE CONSTRUCTION. ALSO PROVIDE TEMPORARY IRRIGATION TO RELOCATED TREES.

THAT AREA AND CONTACT THE CITY'S ENGINEER / INSPECTOR IMMEDIATELY.

- CONTRACTOR SHALL BE RESPONSIBLE FOR ONGOING MAINTENANCE OF ALL TREES DESIGNATED TO REMAIN AND FOR MAINTENANCE OF RELOCATED TREES STOCKPILED DURING CONSTRUCTION. CONTRACTOR WILL BE REQUIRED TO REPLACE TREES THAT DIE DUE TO LACK OF MAINTENANCE.
- CONSULT WITH LANDSCAPE ARCHITECT SHOULD SPECIAL CIRCUMSTANCES ARISE OR QUESTIONS ARISE REGARDING THESE PROCEDURES.

DEMOLITION NOTES:

- DEMOLITION AND CONSTRUCTION WORK MAY BE PERFORMED OVER THE TOP OF AND AROUND TELEPHONE AND POWER SERVICES. CONTRACTOR SHALL WORK BY HAND IN ALL AREAS WHERE THESE SERVICES MIGHT BE HARMED BY LARGER LESS PRECISE EQUIPMENT.
- 2. THE CONTRACTOR SHALL LOCATE AND CLEARLY MARK (AND THEN PRESERVE THESE MARKERS) FOR THE DURATION OF CONSTRUCTION OF ALL TELEPHONE, DATA, STREET LIGHT, SIGNAL LIGHT AND POWER FACILITIES THAT ARE IN OR NEAR THE AREA OF CONSTRUCTION.
- CONTRACTOR'S BID IS TO INCLUDE ALL VISIBLE SURFACE AND ALL SUBSURFACE FEATURES IDENTIFIED TO BE REMOVED OR ABANDONED IN THESE DOCUMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR A SITE INSPECTION TO FULLY ACKNOWLEDGE THE EXTENT OF THE DEMOLITION WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL PERMITS NECESSARY FOR ENCROACHMENT, GRADING, DEMOLITION, AND DISPOSAL OF SAID MATERIALS AS REQUIRED BY PRIVATE, LOCAL AND STATE JURISDICTIONS. THE
- CONTRACTOR SHALL PAY ALL FEES ASSOCIATED WITH THE DEMOLITION WORK. CONTRACTOR SHALL PAY DISPOSAL FEES. BACKFILL ALL DEPRESSIONS AND TRENCHES FROM DEMOLITION OF FOUNDATIONS &
- 8. WITHIN LIMITS OF WORK, REMOVE CURBS, GUTTERS, LANDSCAPING, SIGNAGE, TREES, SHRUBS, ASPHALT, UNDERGROUND PIPES, ETC. AS INDICATED ON THE DRAWINGS. REMOVAL OF LANDSCAPING SHALL INCLUDE ROOTS AND ORGANIC MATERIALS.
- 10. PRIOR TO BEGINNING DEMOLITION WORK ACTIVITIES, CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES OUTLINED IN THE EROSION CONTROL PLAN & DETAILS.
- 11. CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING ALL DEMOLITION MATERIALS, OR STORING SELECTED ITEMS BY OWNER'S REPRESENTATIVE AT DESIGNATED LOCATIONS.
- 12. ABANDONED UTILITIES WITHIN 6 FEET OF THE PROPOSED BUILDING FOOTPRINT SHOULD BE REMOVED IN THEIR ENTIRETY. UTILITIES OUTSIDE THE BUILDING AREA SHOULD BE REMOVED OR ABANDONED IN-PLACE BY LOCATING AND PLUGGING ALL LATERALS AND ENDS OF PIPES WITH CONCRETE, AND THEN FILLING THE ENTIRE PIPE WITH GROUT. REMOVAL OF ANY UTILITIES WILL REQUIRE THAT ALL TRENCHES BE BACKFILLED PER THE SPECIFICATIONS WITH APPROPRIATE TESTS TO VERIFY COMPACTION VALUES.

SITE FENCING NOTES

- CONTRACTOR SHALL PROVIDE A CONSTRUCTION FENCE AROUND THE ENTIRE AREA OF DEMOLITION AND CONSTRUCTION, INCLUDING ALL STAGING, STORAGE, CONSTRUCTION OFFICE AND LAYDOWN AREAS.
- FENCE LOCATION MAY BE ADJUSTED FROM TIME TO TIME AS CONSTRUCTION PROCEEDS TO FXCLUDE SOME AREAS WHERE CONSTRUCTION WORK IS NOT BEING DONE AND THE AREA IS NOT OBJECTIONABLE IN VISUAL APPEARANCE, AT THE DISCRETION AND APPROVAL OF THE DISTRICT STAFF.
- CONSTRUCTION FENCE SHALL BE A MINIMUM OF A 6' HIGH GALVANIZED CHAIN LINK. CONSTRUCTION FENCE ADDRESSED IN THESE NOTES IS TO MEET MINIMUM SEPARATION REQUIREMENTS FROM CONSTRUCTION SITE AND THE CAMPUS. CONTRACTOR IS REQUIRED TO INSTALL ANY ADDITIONAL FENCING, BARRICADES OR OTHER SAFETY DEVICES NEEDED
- ALL FENCING SHALL BE INSTALLED AT ONLY LOCATIONS DESIGNATED AND APPROVED BY DISTRICT PERSONNEL. WITH PARTICULAR CARE GIVEN SUCH THAT THE FENCING DOES NOT CREATE A TRAFFIC HAZARD OR NUISANCE, OR RESTRICT CAMPUS CIRCULATION & FIRE

GRADING & EARTHWORK NOTES:

TO KEEP THE SITE SECURE & SAFE AT ALL TIMES.

- ALL PAVED AREAS ARE TO SLOPE A MINIMUM OF 1%. ACCESSIBLE STALLS AND LOADING ZONES ARE TO SLOPE AT A MAXIMUM OF 2% IN ANY DIRECTION AND ACCESSIBLE PATHWAYS ARE TO SLOPE AT A MAXIMUM OF 8.33%, WITH A MAXIMUM CROSS-SLOPE OF 2%. ANY AREAS ON THE SITE NOT CONFORMING TO THESE BASIC RULES DUE TO EXISTING CONDITIONS OR DISCREPANCIES IN THE DOCUMENTS ARE TO BE REPORTED TO THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH FORMWORK FOR CURBS AND/OR
- CONTRACTOR SHALL DETERMINE EARTHWORK QUANTITIES BASED ON THE TOPOGRAPHIC SURVEY, THE SOILS INVESTIGATION AND THE PROPOSED SURFACE GRADES AND BASE THE BID ACCORDINGLY. ANY DIFFERENCES BETWEEN THE STATE IN WHICH THE PROJECT SITE IS DELIVERED TO THE CONTRACTOR AND THESE DOCUMENTS SHOULD BE NOTED TO THE
- 3. ALL FILL SHALL BE COMPACTED PER THE CONSTRUCTION SPECIFICATIONS AND THE CONTRACTOR SHALL COORDINATE AND COMPLY WITH THE OWNER'S TESTING AGENCY TO TAKE THE APPROPRIATE TESTS TO VERIFY COMPACTION VALUES.

4. IMPORT SOILS MUST MEET THE REQUIREMENTS OF THE CONSTRUCTION SPECIFICATIONS.

- COORDINATE THE PLACEMENT OF ALL SLEEVES FOR LANDSCAPE IRRIGATION (WATER AND CONTROL WIRING) AND STREET LIGHTING PRIOR TO THE PLACEMENT OF ANY ASPHALT, BASEROCK OR CONCRETE SURFACING. SEE LANDSCAPE AND SITE ELECTRICAL DRAWINGS. DO NOT ADJUST GRADES ON THIS PLAN WITHOUT PRIOR WRITTEN APPROVAL OF
- ARCHITECT & ENGINEER. SPOT ELEVATIONS ARE TO FINISHED SURFACE.
- TOP OF CONCRETE CURBS ARE 0.50' ABOVE TOP OF PAVING ELEVATIONS, U.N.O.
- ROUGH GRADING TO BE WITHIN 0.1' AND FINISH GRADES ARE TO BE WITHIN 0.05'.
- SUBGRADES SHALL BE PROOF ROLLED, OR AS INSTRUCTED PER THE CONSTRUCTION SPECIFICATIONS. 11. CONTRACTOR TO GRADE LANDSCAPED (NON PAVED) AREAS TO A FINISH GRADE OF 8" BELOW PROPOSED FINISH GRADE SHOWN ON THE GRADING PLANS. DISTRICT WILL INSTALL TOP 8 INCHES OF TOPSOIL AND PERFORM FINISH GRADING. CONTRACTOR TO GRADE PLANTER & LANDSCAPED AREAS (NON-PAVED AREAS ADJACENT TO BUILDINGS) TO FINISH GRADE 24" BELOW FINISH FLOOR OF BUILDING.
- DISTRICT TO INSTALL FINAL FILL MATERIAL, AND INSTALL IRRIGATION SYSTEMS. 12. AFTER STAKING FOR HORIZONTAL CONTROL CONTRACTOR SHALL FIELD CHECK ALL ELEVATIONS MARKED WITH (E) AND REPORT ANY DISCREPANCIES GREATER THAN 0.05'
- 13. ALL EXISTING UTILITY STRUCTURES WITHIN THE AREA OF WORK SHALL HAVE THE LIDS, GRATES, COVERS, ETC. ADJUSTED TO BE FLUSH WITH FINISHED GRADES, CONTRACTOR SHALL IDENTIFY ALL SUCH ITEMS BY USE OF THESE PLANS AND THOROUGH FIELD INVESTIGATION.

EARTHWORK QUANTITY NOTES:

- THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE QUANTITIES OF ALL FORMS OF EARTHWORK ON THIS PROJECT AND BASING THE BID ON THOSE QUANTITIES WITH FULL KNOWLEDGE THAT ADDITIONAL PROCESSES - INCLUDING ENGINEERING - AND QUANTITIES ARE ALSO TO BE INCLUDED IN THE BID PER THE FOLLOWING NOTES.
- THE CONTRACTOR SHALL MAKE AN INITIAL DETERMINATION OF THE QUANTITIES, BASED ON A DETAILED SITE VISIT, THE TOPOGRAPHIC SURVEY, THE FINISH GRADES SHOWN ON THESE DRAWINGS, THE SIZE AND EXTENT OF FOOTINGS, THE PREPARATION AND MATERIALS USED FOR BUILDING SLABS, PAVEMENT SECTIONS, AND THE SIZE AND DEPTH OF UTILITY TRENCHES, INCLUDING THE UTILITY CONTRACTORS ANTICIPATED RE-USE OF EXISTING MATERIAL FOR BACKFILL IF ANY.
- THE CONTRACTOR SHALL MEET THE GRADES SHOWN ON THE DRAWINGS, ADJUSTING THE AMOUNT OF IMPORT OR EXPORT AS REQUIRED TO DO SO. NO ASSUMPTIONS SHOULD BE MADE ABOUT THE SITE BALANCING. NO ADJUSTMENTS TO THE GRADES SHALL BE PERMITTED UNLESS SPECIFICALLY APPROVED BY THE ARCH/ENGR IN WRITING AFTER THE IMPACT OF ANY GRADE CHANGES (IMPACT TO RAMPS, STAIRS, WORK BY OTHERS, ETC.) HAS BEEN THOROUGHLY REVIEWED BY THE ARCH/ENGR. WHEN PREPARING THE EARTHWORK BIDS, DO NOT ASSUME ANY CHANGES TO THE FINISHED GRADES SHOWN ON THESE DRAWINGS WILL BE PERMITTED.
- THE EARTHWORK SPECIFICATIONS HAVE SPECIFIC REQUIREMENTS FOR BRINGING FILL MATERIAL ONTO THE SITE (IMPORT) SINCE THE EXISTING SOILS ARE NOT SUITABLE FOR FILL MATERIAL IN CERTAIN AREAS. THE EARTHWORK SPECIFICATIONS MAY IDENTIFY ALTERNATIVES THAT ALLOW TREATMENT OF EXISTING SOILS TO MINIMIZE IMPORT, HOWEVER MEETING THE GRADES SHOWN ON THESE DRAWINGS MUST ALSO BE CONSIDERED WHEN DETERMINING THE METHOD
- AFTER THE BID IS AWARDED THE CONTRACTOR SHALL SUBMIT A DETAILED EARTHWORK HANDLING PLAN THAT SHOWS THE INTENT AND LOCATIONS OF EARTH MOVEMENT AND QUANTITIES OF CUT, FILL, IMPORT AND EXPORT AS THE PROJECT WAS BID. PROPOSING ALTERNATIVE PLANS THAT MAY IDENTIFY GRADE ADJUSTMENTS TO MINIMIZE THE DISTANCE SOIL IS MOVED OR TO MINIMIZE IMPORT OR EXPORT WILL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF PREPARING AN EARTHWORK PLAN AS BID.

GENERAL UTILITY SYSTEM NOTES:

- ALL TRENCHES SHALL BE BACKFILLED PER THE SPECIFICATIONS WITH APPROPRIATE TESTS TO VERIFY COMPACTION VALUES.
- CONTRACTOR SHALL STAKE LOCATION OF ABOVE GROUND UTILITY EQUIPMENT (HYDRANTS, TRANSFORMERS, ETC.) AND MEET WITH THE APPROPRIATE GOVERNMENTAL AUTHORITY AND PROPER UTILITY AUTHORITY TO REVIEW LOCATION PRIOR TO INSTALLATION. THE APPROPRIATE GOVERNMENTAL AUTHORITY AND PROPER UTILITY AUTHORITY MUST SPECIFICALLY AGREE WITH LOCATION PRIOR TO PROCEEDING WITH THE INSTALLATION.
- CONTRACTOR SHALL VERIFY (POTHOLE IF NECESSARY) SIZE, MATERIAL, LOCATION AND DEPTH OF ALL SYSTEMS THAT ARE TO BE CONNECTED TO OR CROSSED PRIOR TO THE TRENCHING OR INSTALLATION OF PROPOSED UTILITIES, AND INFORM ENGINEER OF ANY CONFLICTS BEFORE PROCEEDING WITH WORK.
- CATHODIC PROTECTION IS REQUIRED ON ALL METALLIC FITTINGS AND ASSEMBLIES THAT ARE IN CONTACT WITH THE SOIL, CONTRACTOR IS RESPONSIBLE FOR FULLY ENGINEERING AND INSTALLING THIS SYSTEM AND COORDINATE ANODE AND TEST STATION LOCATIONS WITH OWNER'S ENGINEER. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL CORROSION PROTECTION REQUIREMENTS.
- CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES, INVERTS AND LOCATIONS PRIOR TO BEGINNING ANY WORK ON THIS SITE.
- 6. ALL DRAINAGE STRUCTURES LOCATED IN VEHICULAR TRAFFIC AREAS SHALL HAVE TRAFFIC RATED COVERS AND BOLT-DOWN GRATES. ALL DRAINAGE STRUCTURES IN PEDESTRIAN ACCESSIBLE AREAS SHALL HAVE ADA APPROVED BOLT-DOWN GRATES.
- ALL UTILITY STRUCTURES WITHIN THE AREA OF WORK SHALL HAVE THE LIDS, GRATES, COVERS, ETC. ADJUSTED TO BE FLUSH WITH FINISHED GRADES. CONTRACTOR SHALL IDENTIFY ALL SUCH ITEMS BY USE OF THESE PLANS AND FIELD INVESTIGATION.
- 8. SEE LANDSCAPE LAYOUT PLANS FOR IRRIGATION SLEEVE LOCATIONS. 9. ALL EXISTING UTILITY STRUCTURES (CLEANOUTS, VALVES, BOXES, MANHOLES, CB'S, ETC.) SHALL BE RAISED TO FINAL FINISH GRADE AND COMPLETED WITH THE NECESSARY LABOR AND MATERIALS TO BE IN ACCORDANCE WITH DETAILS SHOWN ON

- CLEANOUTS, CATCH BASINS, MANHOLES AND AREA DRAINS ARE TO BE ACCURATELY LOCATED BY THEIR RELATIONSHIP TO THE BUILDING, FLATWORK, BUILDING UTILITIES, AND/OR CURB LAYOUT. NOT BY THE LENGTH OF PIPE SPECIFIED ON THE DRAWINGS.
- 14. SEE ELECTRICAL PLANS FOR SITE ELECTRICAL WORK, ADVISE ENGINEER OF ANY CONFLICTS WITH OTHER UTILITIES PRIOR TO BEGINNING WORK. 15. COMPLETE SYSTEMS: ALL UTILITY SYSTEMS ARE DELINEATED IN A SCHEMATIC MANNER
- 16. SEE SPECIFICATION SECTION 01300 FOR SUBMITTAL REQUIREMENTS OF UTILITY

- INSTALL DETECTABLE METALIZED WARNING TAPE APPROXIMATELY 18" BELOW THE
- PUBLIC AND PRIVATE SANITARY SEWER MAIN AND SERVICE LINE 4-INCH THROUGH 8-INCH SHALL BE POLYVINYL CHLORIDE (PVC) SDR 26 SEWER PIPE. WHERE CONNECTION IS TO BE MADE TO AN EXISTING SEWER OR STRUCTURE, SAID EXISTING SEWER OR STRUCTURE SHALL BE UNCOVERED AND CHECKED FOR LOCATION AND FLEVATION PRIOR TO STAKING NEW SEWER DEPTH AND LOCATION ANY DISCREPANCY
- 4. ALL SANITARY SEWER DESIGNED AT 1% OR FLATTER SHALL BE STAKED BY A CIVIL
- 5. REFER TO SANITARY SEWER SPECIFICATIONS FOR LABOR AND MATERIAL, TESTING,
- MINIMUM SLOPE FOR SITE SANITARY SEWER PIPES SHALL BE PER CURRENT UPC REQUIREMENTS:

8" & LARGER @ 0.5%

- INSTALL DETECTABLE METALIZED WARNING TAPE APPROXIMATELY 18" BELOW THE SURFACE IN NON-PAVED AREAS, AND AT BOTTOM OF BASEROCK FOR PAVED AREAS.
- PAINT THE TOP OF THE CURBS ADJACENT TO EACH CATCH BASIN INSTALLED UNDER THIS WORK OR ADJACENT TO THIS SITE WITH THE WORDS "NO DUMPING - DRAINS TO BAY".
- INSTALL ADA APPROVED GRATES ON ALL DRAINAGE STRUCTURES WITHIN PEDESTRIAN ACCESSIBLE PAVED AREAS. INSTALL BOLT-DOWN GRATES ON ALL DRAINAGE STRUCTURES.
- WHERE CONNECTION IS TO BE MADE TO AN EXISTING SEWER OR STRUCTURE, SAID EXISTING SEWER OR STRUCTURE SHALL BE UNCOVERED AND CHECKED FOR LOCATION AND ELEVATION PRIOR TO STAKING NEW SEWER DEPTH AND LOCATION. ANY DISCREPANCY BETWEEN THE PLANS AND FIELD INFORMATION SHALL BE REPORTED
- IMMEDIATELY TO THE ENGINEER. REFER TO STORM SEWER SPECIFICATIONS FOR LABOR AND MATERIAL, TESTING AND
- QUALITY CONTROL REQUIREMENTS.
- 6" Ø 1% 8" & LARGER @ 0.5%
- PRIVATE STORM DRAIN LINE 4-INCH THROUGH 12-INCH WITH A MINIMUM OF TWO (2) FEET OF COVER IN NON-TRAFFIC AREAS SHALL BE POLYVINYL CHLORIDE (PVC)
- PRIVATE STORM DRAIN LINE 6-INCH THROUGH 12-INCH WITH LESS THAN THREE (3) FEET OF COVER IN VEHICULAR TRAFFIC AREAS SHALL BE POLYVINYL CHLORIDE (PVC) C900, RATED 150 PSI CLASS PIPE. WATER SYSTEM NOTES:

INSTALL DETECTABLE METALIZED WARNING TAPE APPROXIMATELY 18" BELOW THE SURFACE IN NON-PAVED AREAS, AND AT BOTTOM OF BASEROCK FOR PAVED AREAS.

- PROVIDE THRUST BLOCKS OR COMPARABLE RESTRAINTS PER THE LOCAL WATER AGENCY. AT BENDS OF 22 1/2 DEGREES OR GREATER (HORIZONTAL AND VERTICAL), AT SIZE CHANGES AND AT FIRE HYDRANTS PER CITY STANDARD, AWWA C600, SECTION 3.8
- MAINTAIN PUBLIC WATER LINES 10' AWAY FROM PUBLIC SANITARY SEWER LINES. ANGLE AND WATER LINES SHALL BE MINIMUM OF 12" ABOVE TOP OF SANITARY SEWER
- CONTRACTOR TO POTHOLE AND VERIFY LOCATION, DEPTH & SIZE OF P.O.C. TO EXISTING WATERMAIN PRIOR TO INSTALLING ANY NEW WATERMAIN AND ADVISE THE OWNER
- 10. REFER TO DOMESTIC WATER SPECIFICATIONS FOR LABOR AND MATERIAL, TESTING AND QUALITY CONTROL REQUIREMENTS. 11. PUBLIC AND PRIVATE WATER MAIN AND WATER SERVICE LINE 4-INCH THROUGH

- (WHICH IS APPROXIMATE)
- ON THESE PLANS. CONTRACTOR IS TO PROVIDE ALL FITTINGS, ACCESSORIES & WORK NECESSARY TO COMPLETE THE UTILITY SYSTEM SO THAT IT IS FULLY FUNCTIONING FOR THE PURPOSE INTENDED.

SANITARY SEWER NOTES:

- SURFACE IN NON-PAVED AREAS. AND AT BOTTOM OF BASEROCK FOR PAVED AREAS. GREEN, IMPRINTED WITH "CAUTION-SANITARY SEWER LINE BELOW", CALPICO TYPE 2
- BETWEEN THE PLANS AND FIELD INFORMATION SHALL BE REPORTED IMMEDIATELY TO THE
- AND QUALITY CONTROL REQUIREMENTS.
- 4" @ 2% 6" @ 1%

STORM DRAIN NOTES:

- GREEN, IMPRINTED WITH "CAUTION-STORM DRAIN LINE BELOW", CALPICO TYPE 2 OR
- WORDING TO BE BLUE 4" HIGH LETTERS ON A PAINTED WHITE BACKGROUND.

- MINIMUM SLOPE FOR SITE STORM DRAIN PIPES SHALL BE: 4"@2%
- UNLESS INDICATED OTHERWISE

- BLUE, IMPRINTED WITH "CAUTION-WATER-LINE BELOW", CALPICO TYPE 2 OR EQUAL.
- UNLESSS NOTED OTHERWISE. PROVIDE MINIMUM OF 3 FEET OF COVER OVER WATER LINES, UNLESS NOTED OTHERWISE. WHERE WATER LINES HAVE TO CROSS SANITARY SEWER LINES, DO SO AT A 90 DEGREE

LINES AND WATERLINE JOINTS SHALL BE A MINIMUM OF 10 FEET FROM SANITARY

- WATER LINES ARE SHOWN SCHEMATICALLY. CONTRACTOR SHALL IDENTIFY EACH ANGLE AND/OR BEND WITH APPROPRIATE FITTINGS THAT MAY BE REQUIRED TO ACCOMPLISH THE INTENDED DESIGN.
- BOTTOM OF BACKFLOW PREVENTOR ASSEMBLY TO BE INSTALLED NO GREATER OR LESS THAN 12" FROM FINISH GRADE. THE UNDERGROUND DOMESTIC WATER SYSTEM INSTALLER SHALL OBTAIN ALL APPROVALS AND PERMITS PRIOR TO ORDERING MATERIALS, FABRICATING SYSTEMS OR ANY
- ENGINEER OF ANY FIELD DISCREPANCIES THAT WILL IMPACT THE DESIGN.
- AND FUSION EPOXY COATED GATE VALVES. 12. ALL WATER LINES 3" OR SMALLER SHALL BE TYPE K COPPER WITH SILVER BRAZED JOINTS. CONTRACTOR TO VERIFY PRESSURES FROM EXISTING LINES ARE

12-INCH SHALL BE POLYVINYL CHLORIDE (PVC) AND SHALL MEET AWWA C900,

RATED FOR 200 PSI CLASS PIPE WITH EPOXY COATED DUCTILE IRON FITTINGS

ADEQUATE TO SERVICE BUILDINGS AS SPECIFIED BY THE PLUMBING PLANS.

2600 TENTH STREET, SUITE 700 BERKELEY, CA 94710-2597 510-450-1999 P

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STRUCTURAL & CIVIL ENGINEER.

(650) 617-5930, Fax (650) 617-5933

DATE VANESSA GARRETT P.E. CE84141 CITY ENGINEER

260 Sheridan Avenue,

Palo Alto, CA 94306

	REVISION SCHEDULE					
NO	DATE	BY	DESCRIPTION			
1	5/25/2022		AGENCY PLAN REVIEW			
<u>^2</u>	12/02/2022		AGENCY PLAN REVIEW			

DATE: 02/25/2022 **SCALE**: PROJECT NUMBER: 2010200

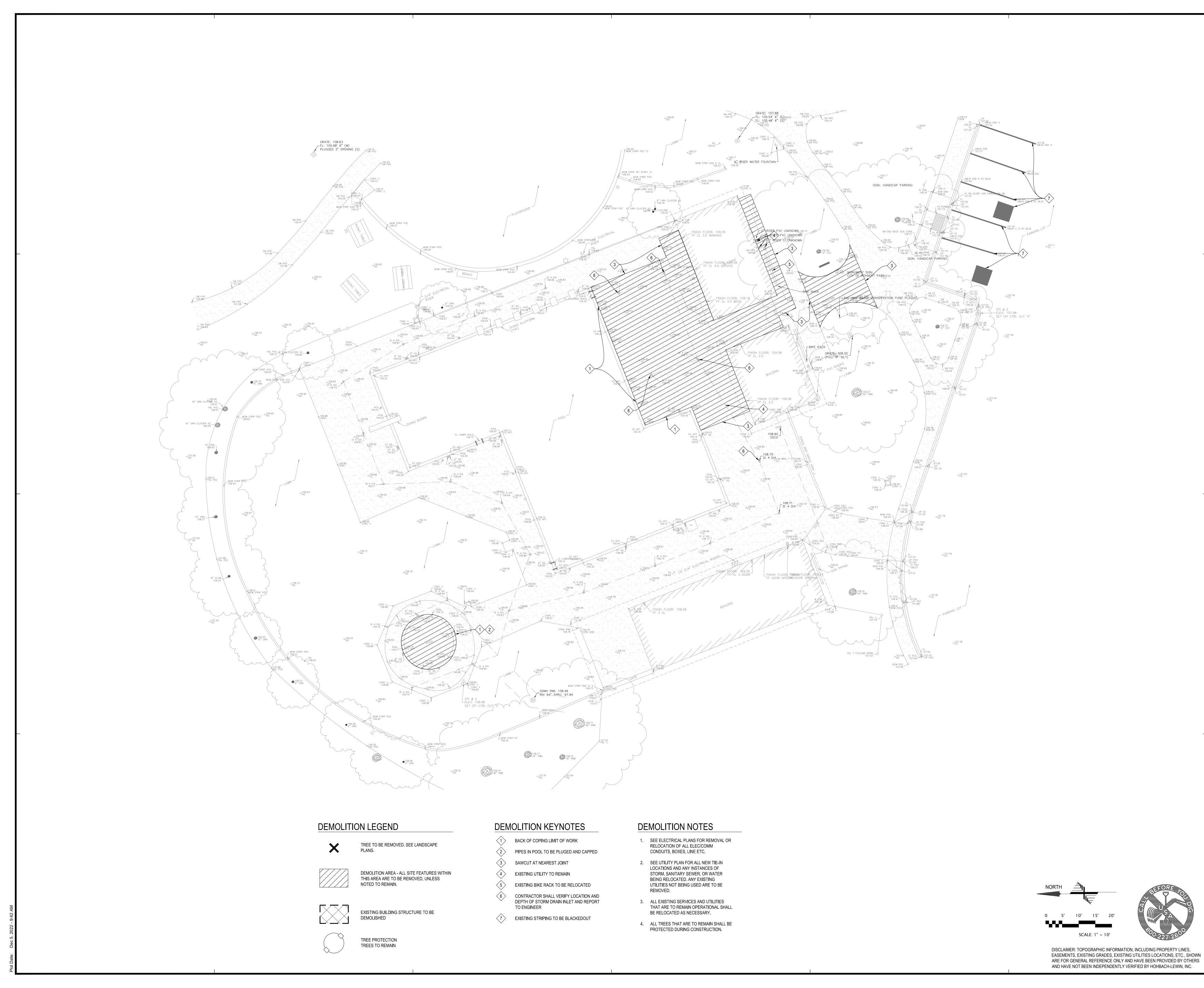
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NOTES

EASEMENTS, EXISTING GRADES, EXISTING UTILITIES LOCATIONS, ETC., SHOWN ARE FOR GENERAL REFERENCE ONLY AND HAVE BEEN PROVIDED BY OTHERS AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY HOHBACH-LEWIN, INC.

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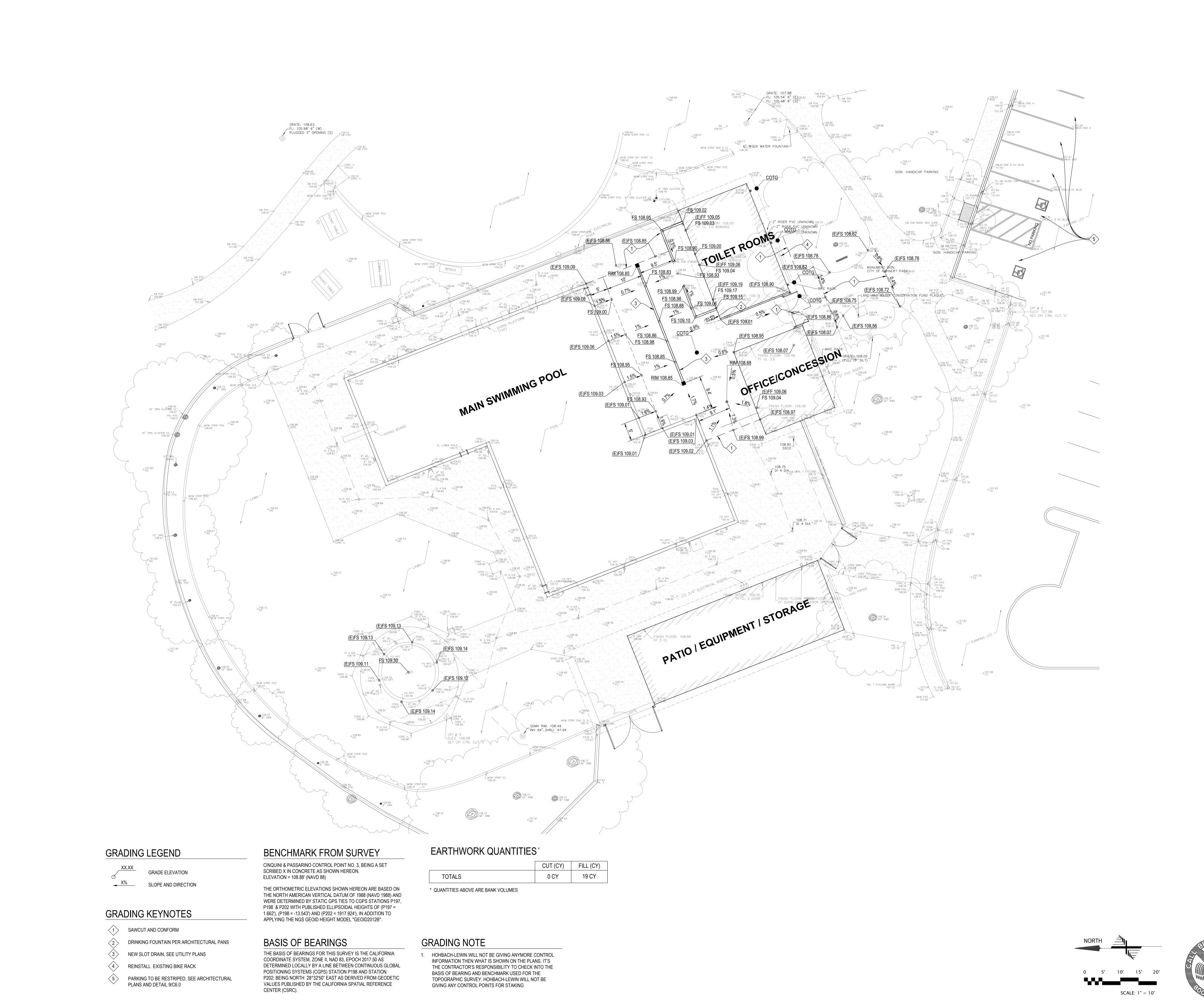
VANESSA GARRETT P.E. CE84141

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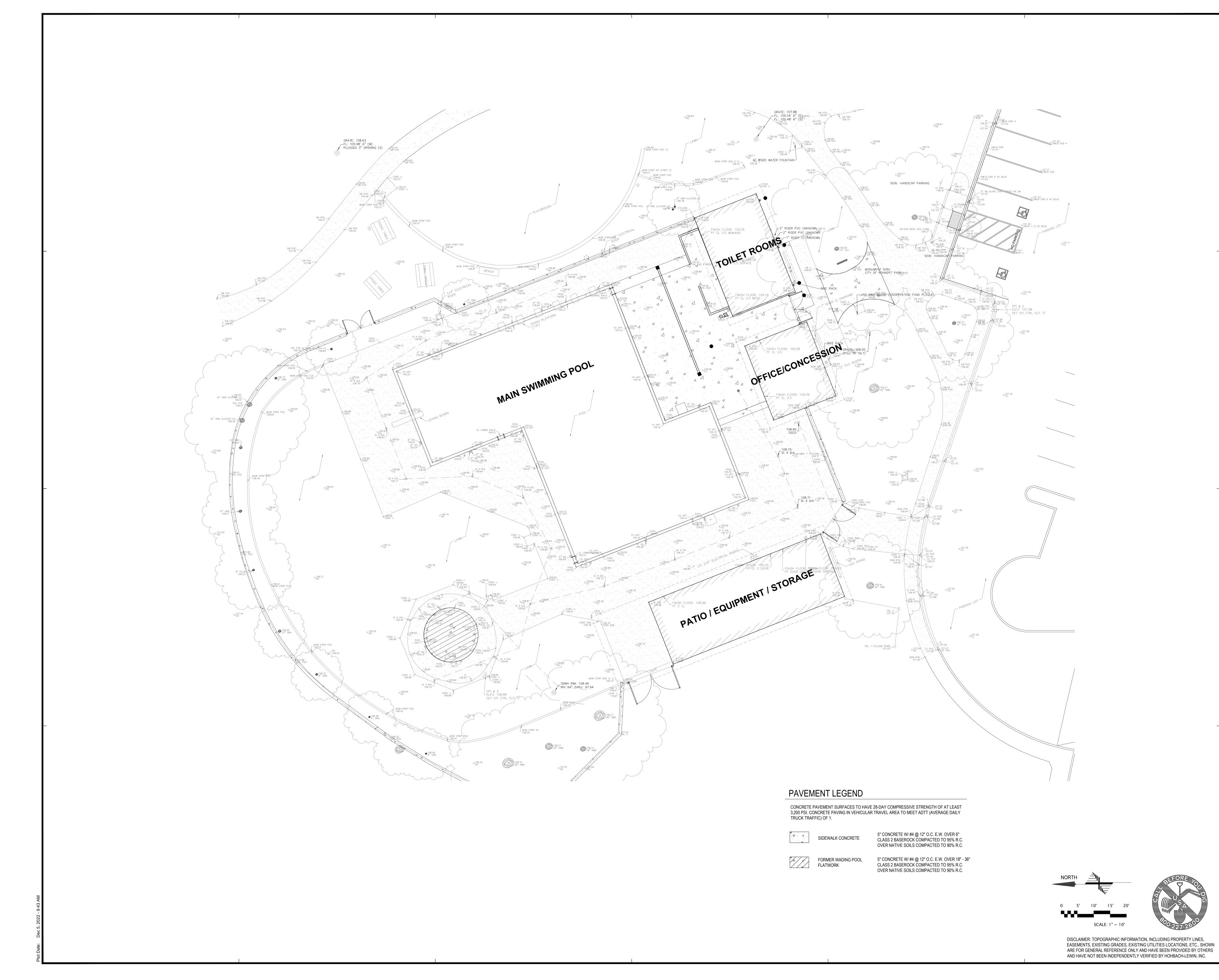
GRADING PLAN

DRAWING NUMBER:

AGENCY BACKCHECK

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VANESSA GARRETT P.E. CE84141

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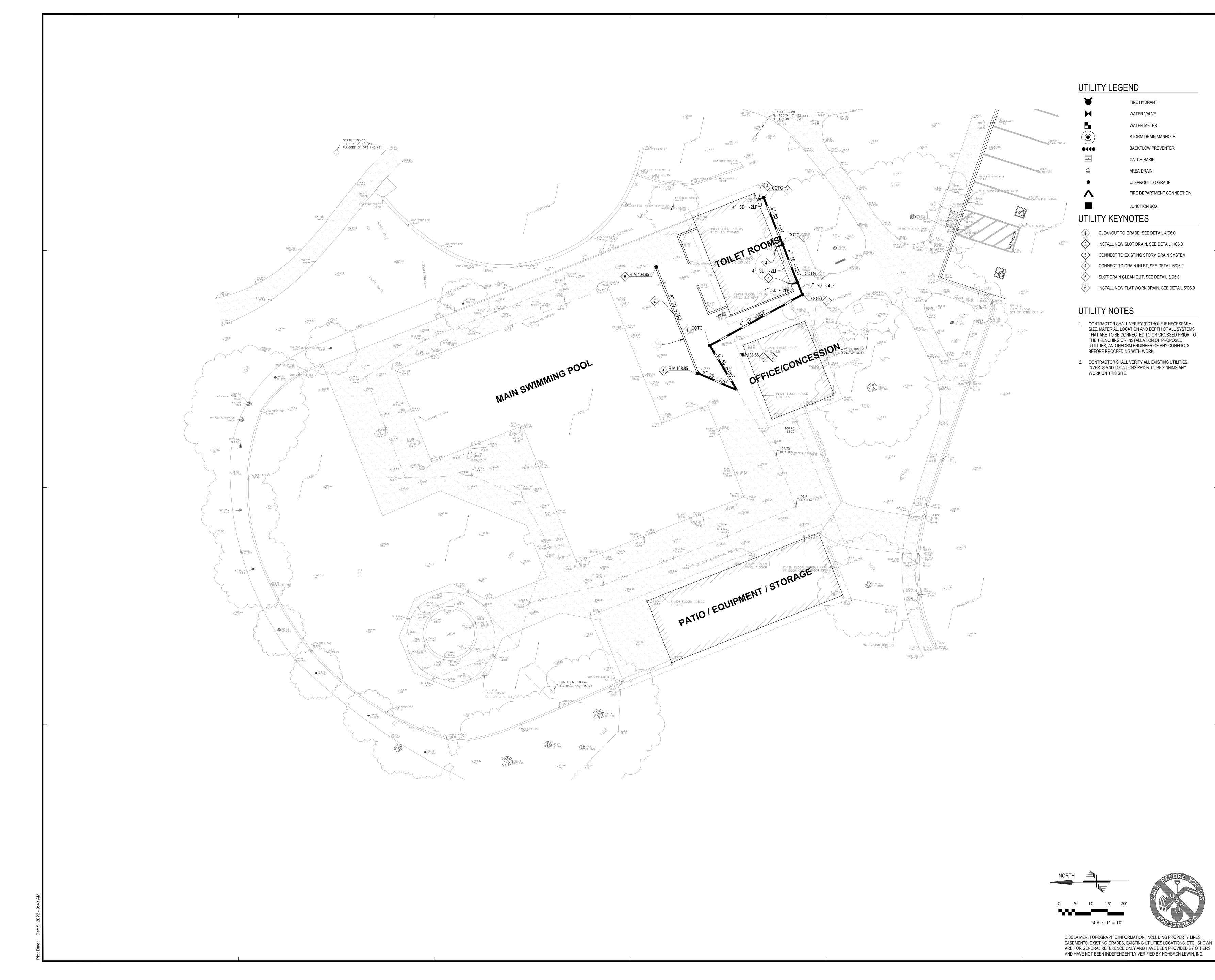
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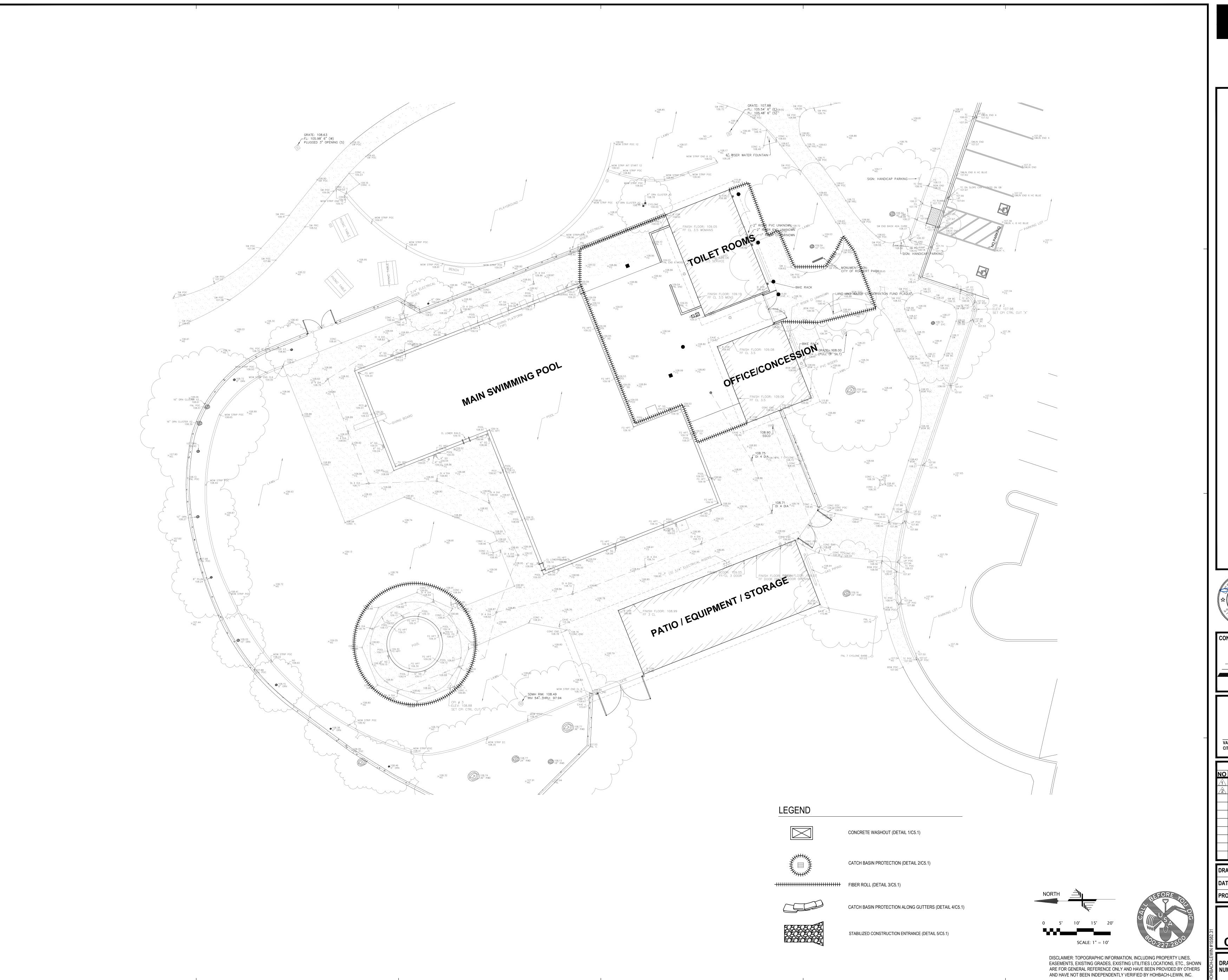
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UTILITY PLAN

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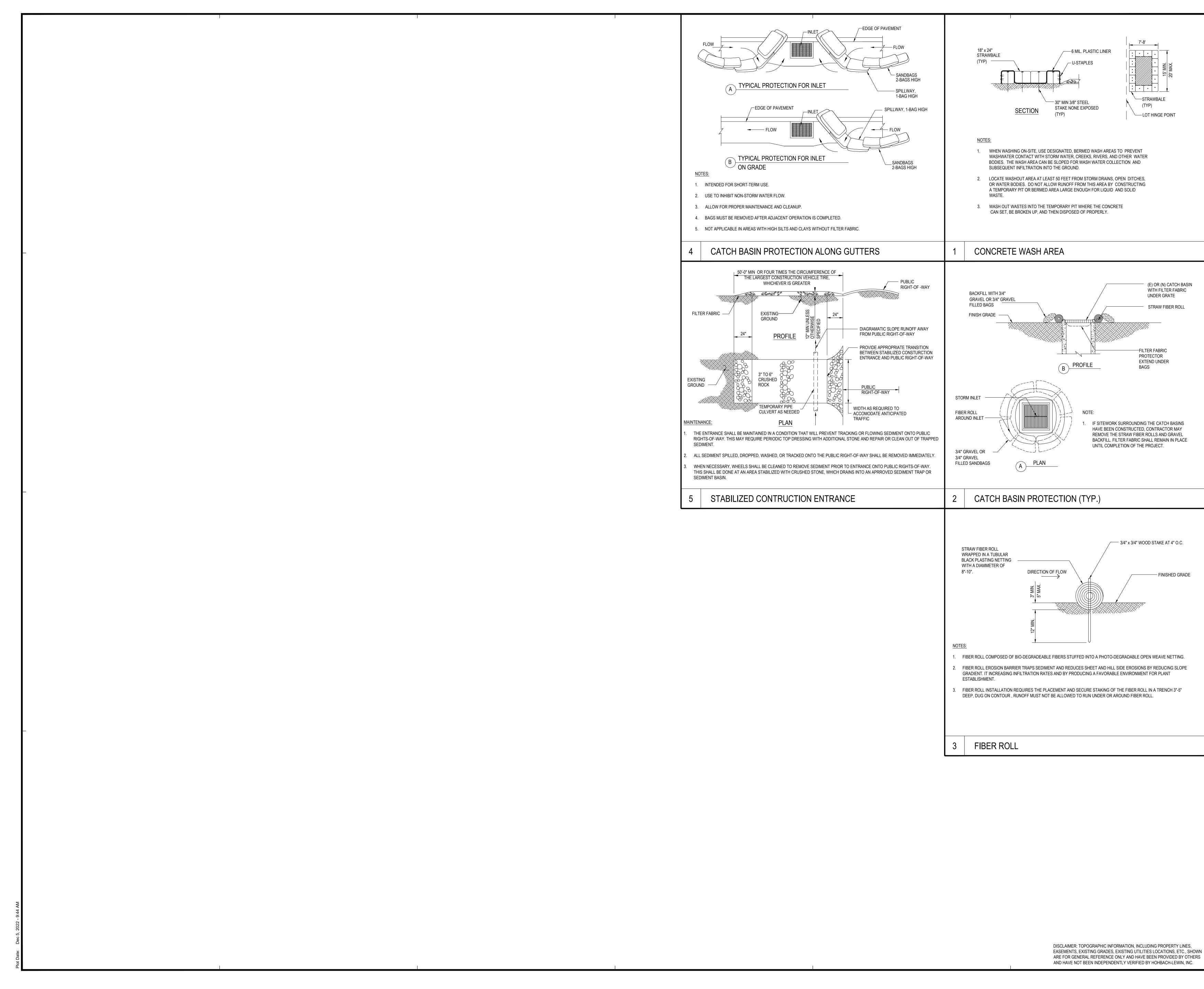
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DATE : 02/25/2022	SCALE:				
PROJECT NUMBER: 2010200					

EROSION CONTROL PLAN

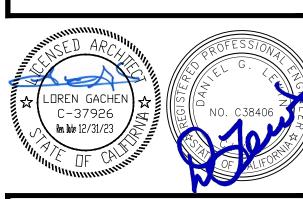
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BERKELEY 2600 TENTH STREET, SUITE 700 BERKELEY, CA 94710-2597

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CONSULTANT 260 Sheridan Avenue, Palo Alto, CA 94306 (650) 617-5930, Fax (650) 617-5932

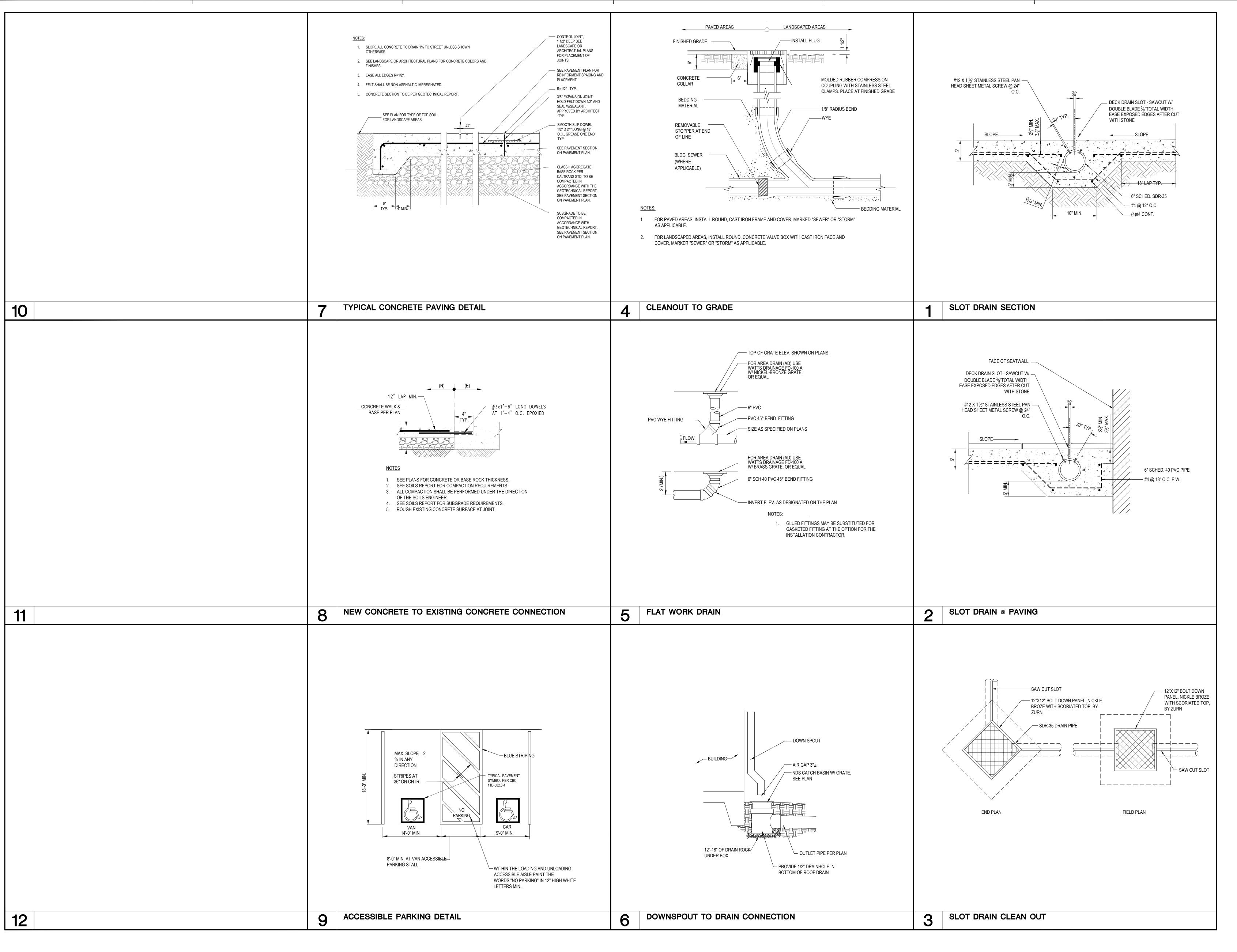
VANESSA GARRETT P.E. CE84141 CITY ENGINEER	DATE

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EROSION CONTROL **DETAILS**

NUMBER:



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VANESSA GARRETT P.E. CE84141 CITY ENGINEER

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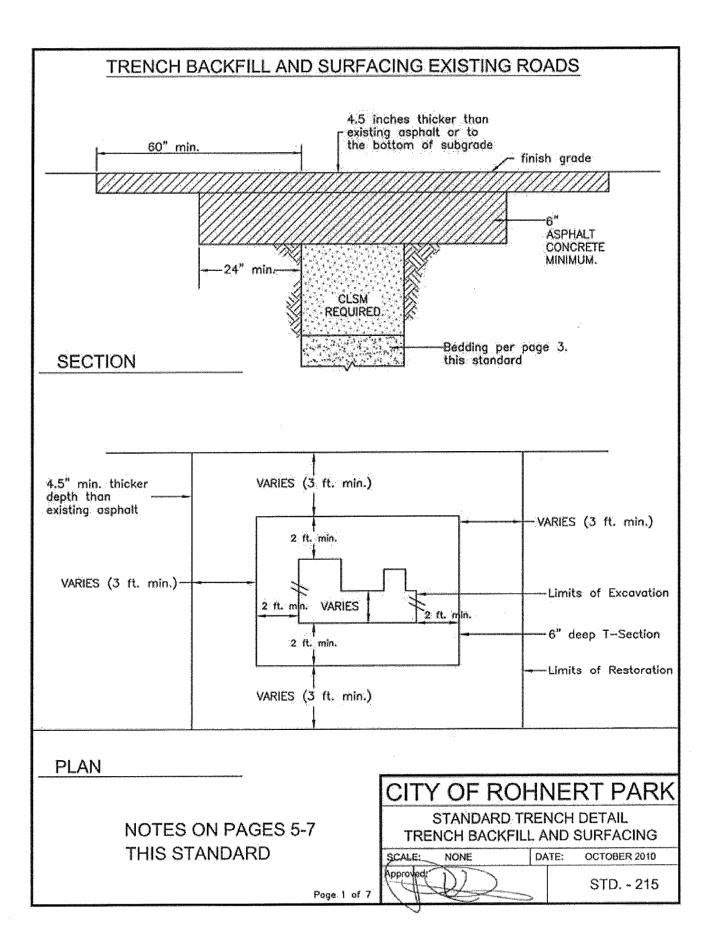
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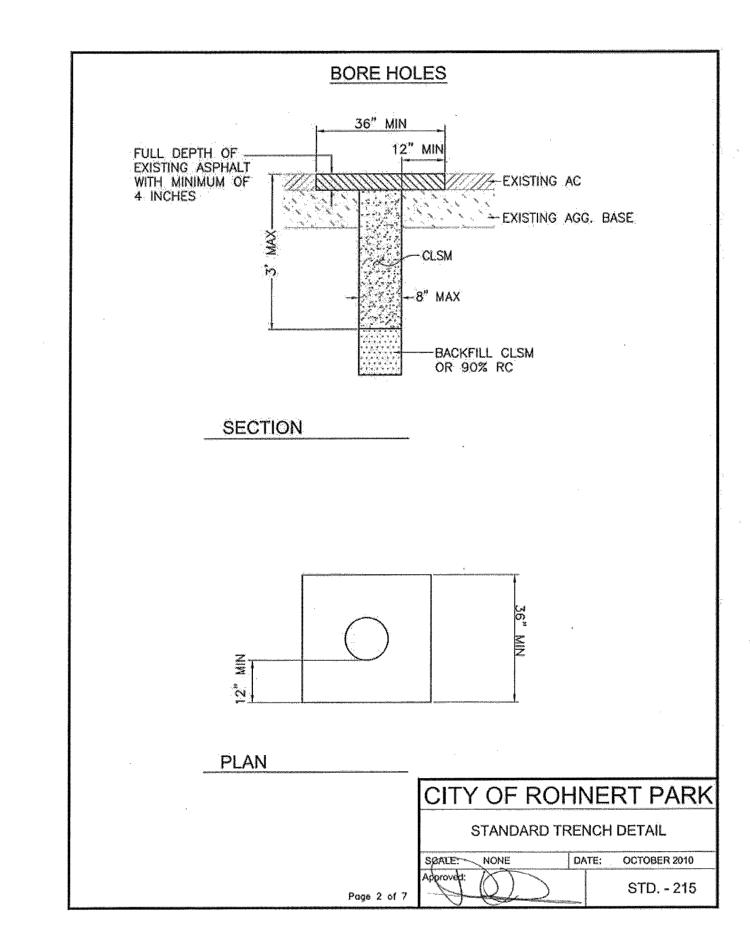
ARE FOR GENERAL REFERENCE ONLY AND HAVE BEEN PROVIDED BY OTHERS

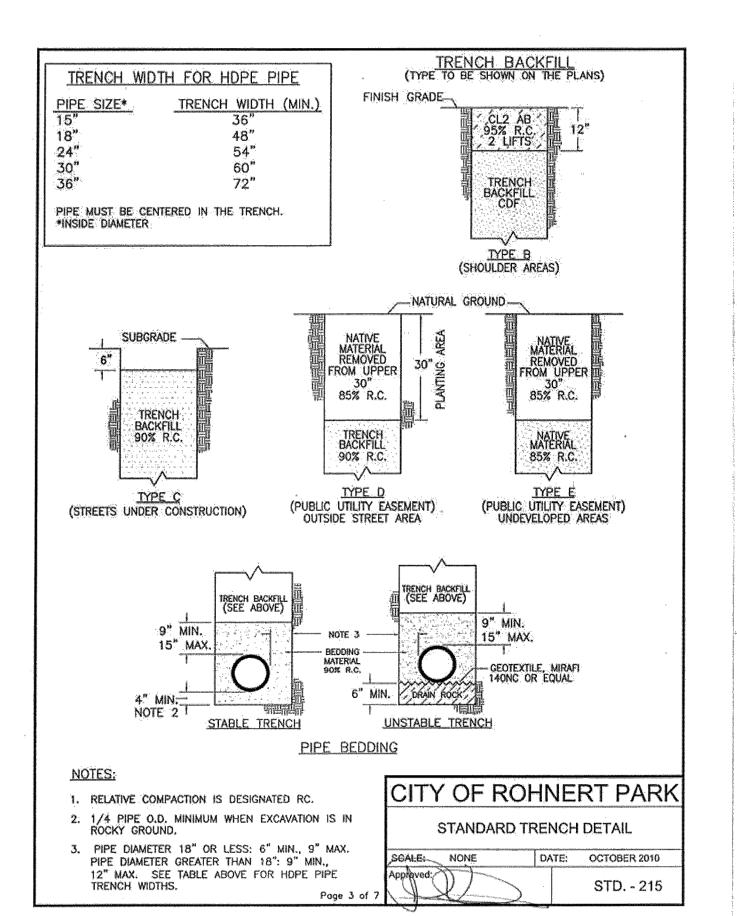
DISCLAIMER: TOPOGRAPHIC INFORMATION, INCLUDING PROPERTY LINES,

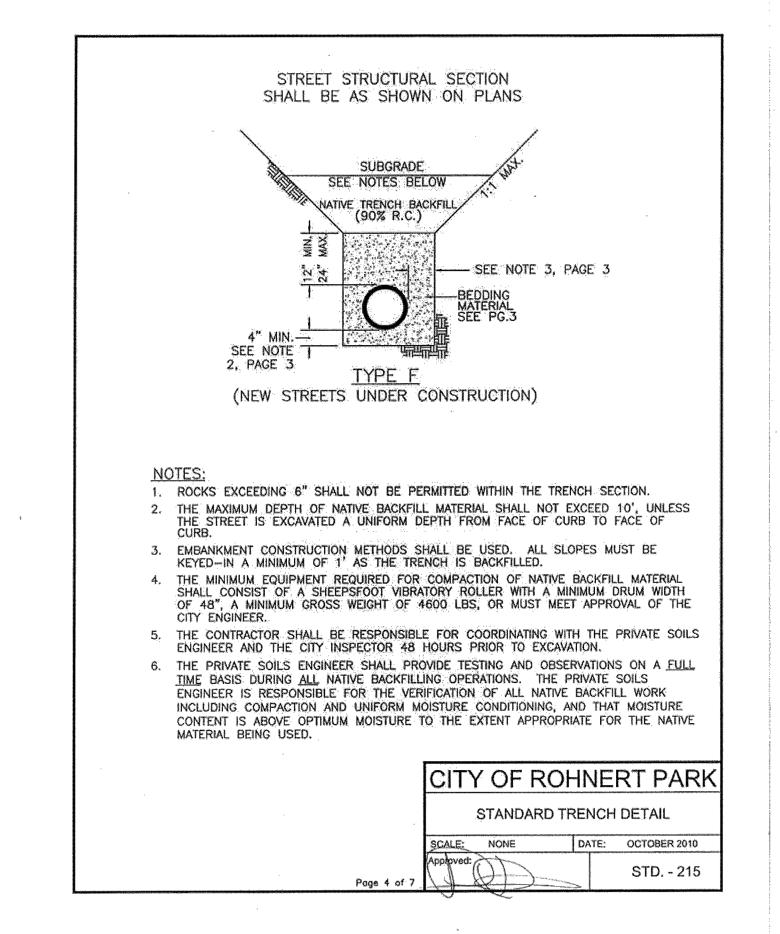
AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY HOHBACH-LEWIN, INC.

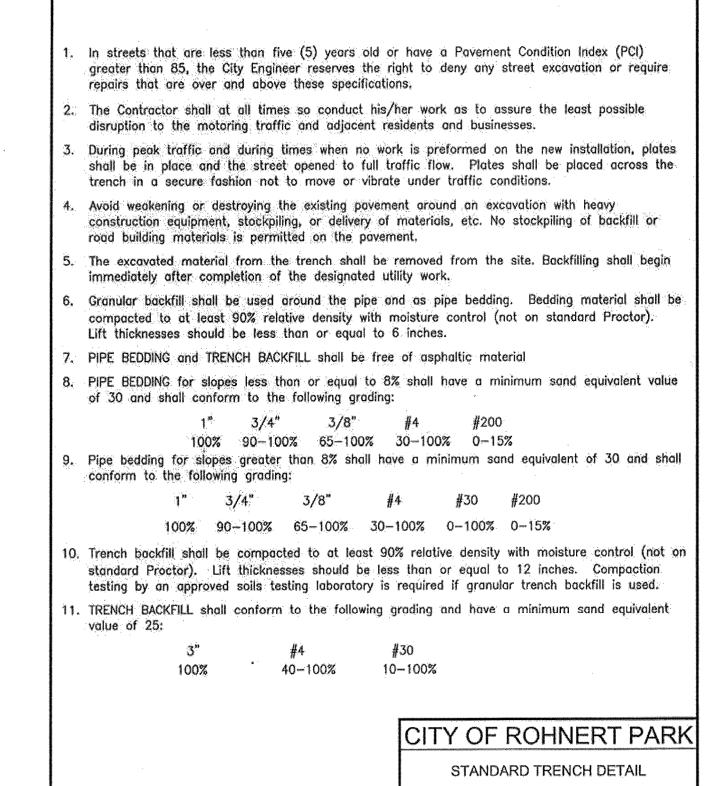
EASEMENTS, EXISTING GRADES, EXISTING UTILITIES LOCATIONS, ETC., SHOWN



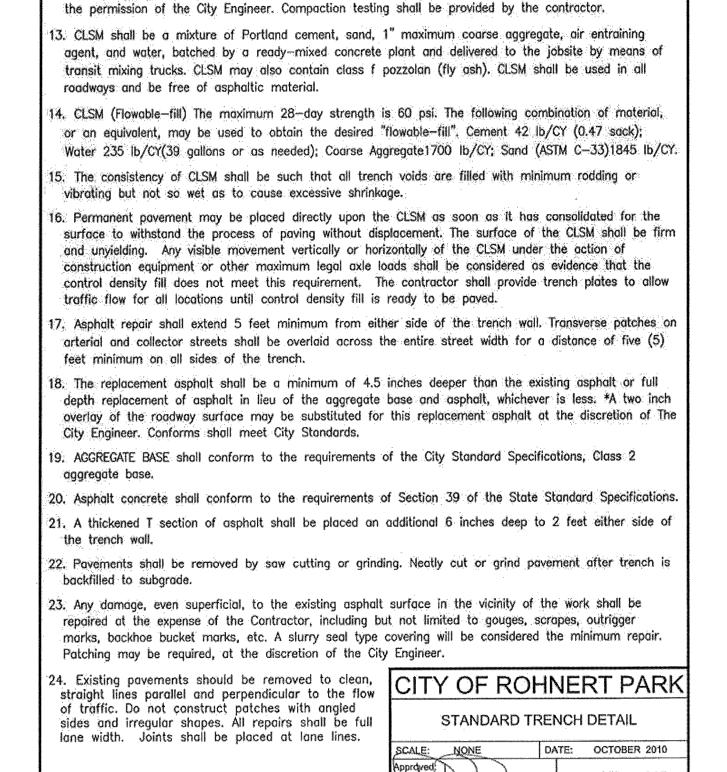








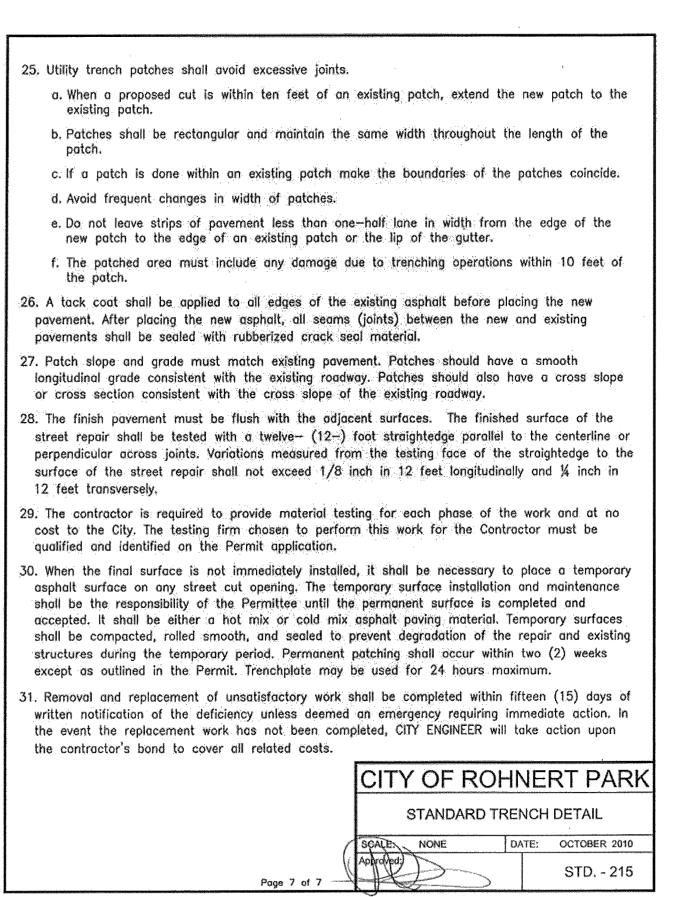
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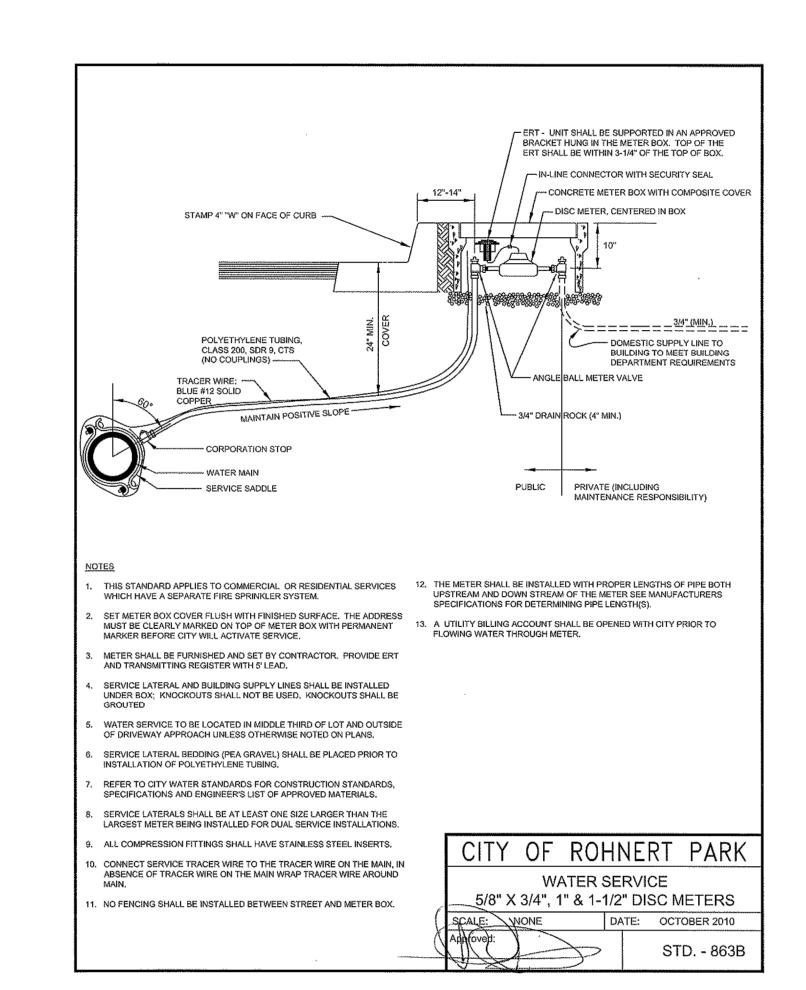


12. CLSM (Flowable-fill) shall be used in all trenches within existing streets or shoulder areas. The depth

roadway aggregate base, whichever is less. *Trench backfill may be used on an exception basis with

shall be a minimum of 3 feet below the roadway aggregate base or from the pipe backfill to the







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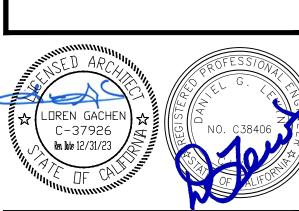
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CONSULTANT HOHBACH-LEWIN, INC STRUCTURAL & CIVIL ENGINEERS 260 Sheridan Avenue, Palo Alto, CA 94306 (650) 617-5930, Fax (650) 617-5932

VANESSA GARRETT P.E. CE84141 CITY ENGINEER

REVISION SCHEDULE NO DATE BY DESCRIPTION AGENCY PLAN REVIEW 1 5/25/2022 AGENCY PLAN REVIEW 2 | 12/02/2022 | ·

CHECKED: BJH DRAWN: BKB **DATE**: 02/25/2022 **SCALE**: PROJECT NUMBER: 2010200

DETAILS

DISCLAIMER: TOPOGRAPHIC INFORMATION, INCLUDING PROPERTY LINES, EASEMENTS, EXISTING GRADES, EXISTING UTILITIES LOCATIONS, ETC., SHOWN ARE FOR GENERAL REFERENCE ONLY AND HAVE BEEN PROVIDED BY OTHERS NUMBER: AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY HOHBACH-LEWIN, INC.

SYMBOL LEGEND

	WALL TYPES IN PLAN					
SYMBOLS	SYMBOLS DESCRIPTION					
	NON-BEARING PARTITION					
<u> </u>	BEARING WALL BELOW					
	WOOD STUD WALL					
	(E) WOOD STUD WALL					

	FRAMING MARKINGS	
SYMBOLS	DESCRIPTION	REFERENCE
T/SLAB +30' - 0"	ELEVATION FROM DATUM; T/INDICATES TOP OF	
$\frac{\overline{\text{CT}}}{2}$ 200 lbs	MECHANICAL UNIT AND MAXIMUM OPERATING WEIGHT	
Willin Willin	CHANGE IN ELEVATION	
UP DN	SLOPE	
A	GRID	
•	WORK POINT	
	OPENING	
	SLOPE	
	WF, HSS OR PIPE COLUMN	

	FOUNDATION MARKINGS						
SYMBOLS	SYMBOLS DESCRIPTION						
	SPREAD FOOTING						
<u> </u>	(E) CONTINUOUS FOOTING						
\$222Z\$	CONTINUOUS FOOTING						

ABBREVIATIONS

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
(E)	EXISTING	HGR	HANGER	SMD	SEE MECHANICAL DRAWINGS
(N)	NEW	HK	HOOK	SMRF	SPECIAL MOMENT RESISITNG FRAME
AB ADDL	ANCHOR BOLT ADDITIONAL	HORIZ HSB	HORIZONTAL HIGH STRENGTH BOLT	SMS	SHEET METAL SCREW(S)
AESS	ARCHITECTURALLY EXPOSED	HSS	HOLLOW STRUCTURAL SECTION	SOG	SLAB ON GRADE
A. T	STRUCTURAL STEEL		(TUBE STEEL)	SP	SPACE SPACE (S)
ALT APPRX	ALTERNATE APPROXIMATE	HT HVAC	HEIGHT HEATING VENTING AND AIR	SPEC(S) SQ	SPECIFICATION(S) SQUARE
AR	ANCHOR ROD	111/10	CONDITIONING	STAGG'D	STAGGERED
ARCH	ARCHITECT OR ARCHITECTURAL	ID	INSIDE DIAMETER	STD	STANDARD
AVG BF	AVERAGE BRACED FRAME	IF INFO	INSIDE FACE INFORMATION	STIFF STL	STIFFENER STEEL
BLDG	BUILDING	INT	INTERIOR	STR	STRUCTURE
BLK	BLOCK	JH	JOIST HANGER	STRCTL	STRUCTURAL
BLKG BM	BLOCKING BEAM	JST(S) JT	JOIST(S) JOINT	SYMM T&B	SYMMETRICAL TOP AND BOTTOM
BOT	BOTTOM	LBS	POUNDS	T&G	TONGUE AND GROOVE
BRDG	BRIDGING	LL	LIVE LOAD	TD	TIE DOWN
BRG BTWN	BEARING	LLH LLV	LONG LEG HORIZONTAL LONG LEG VERTICAL	TEMP THK	TEMPERATURE OR TEMPORARY
CIP	BETWEEN CAST-IN-PLACE	LOC	LOCATION	THRD'D	THICK OR THICKNESS THREADED
CJ	CONTROL/CONSTRUCTION JOINT	LONG	LONGITUDINAL	TO	TOP OF
CJP	COMPLETE JOINT PENETRATION	LSL LVL	LAMINATED STRAND LUMBER LAMINATED VENEER LUMBER	TRANSV	TRANSVERSE
CL CLR	CENTER LINE CLEAR OR CLEARANCE	LW	LIGHTWEIGHT	TYP UON	TYPICAL UNLESS OTHERWISE NOTED
CMU	CONCRETE MASONRY UNIT	LWC	LIGHTWEIGHT CONCRETE	VERT	VERTICAL
COL	COLUMN	MATL	MATERIAL	VIF	VERIFY IN FIELD
CONC CONN	CONCRETE CONNECTION(S)	MAX MB	MAXIMUM UNFINISHED MACHINE BOLT	W/ W/O	WITH WITHOUT
CONST	CONSTRUCTION	MC	MOMENT CONNECTION(S)	WD	WOOD
CONT	CONTINUOUS	MECH	MECHANICAL	WF	WIDE FLANGE
CTR	CENTERED	MEP	MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION	WP	WORK POINT
CTRD CTRSK	CENTERED COUNTERSINK	MEZZ	MEZZANINE	WT WWR	WEIGHT WELDED WIRE REINFORCEMEN
db	DIAMETER OF BOLT OR REBAR	MFR	MANUFACTURER		
DBL	DOUBLE COLLING D	MID MIN	MIDDLE MINIMUM		
DCW DEG	DEMAND CRITICAL WELD DEGREE(S)	MISC	MISCELLANEOUS		
DEMO	DEMOLISH	MTL	METAL		
DET	DETAIL	N/A NIC	NOT APPLICABLE NOT IN CONTRACT		
DF DIA	DOUGLAS FIR DIAMETER	NO	NUMBER		
DIAG	DIAGONAL	NOM	NOMINAL		
DIM(S)	DIMENSION(S)	NS NTS	NEAR SIDE NOT TO SCALE		
DL DWG(S)	DEAD LOAD DRAWING(S)	NW	NORMAL WEIGHT		
DWL	DOWEL(S)	NWC	NORMALWEIGHT CONCRETE		
EA	EACH	OC OD	ON CENTER OUTSIDE DIAMETER		
ECC EF	ECCENTRICITY EACH FACE	OF	OUTSIDE FACE		
EJ	EXPANSION JOINT	OH OH	OPPOSITE HAND		
EL	ELEVATION	OPNG(S) OPP	OPENING(S) OPPOSITE		
ELEC EMBED	ELECTRICAL EMBEDMENT	OSB	ORIENTED STRAND BOARD		
EN	EDGE NAIL	P.T.	PRESSURE TREATED		
ENGR	ENGINEER	PAF PC	POWDER ACTUATED FASTENER PILE CAP		
EOS EQ	EDGE OF SLAB EQUAL	PERP	PERPENDICULAR		
EQUIP	EQUIPMENT	PG	PLATE GIRDER		
ES	EACH SIDE	PJP PL	PARTIAL JOINT PENETRATION PLATE		
EW EXP	EACH WAY EXPANSION	PLY	PLYWOOD		
EXT	EXPANSION	PSF	POUNDS PER SQUARE FOOT		
FF	FINISH FLOOR	PSI	POUNDS PER SQUARE INCH		
FIN	FINISH(ED)	PSL PT	PARALLEL STRAND LUMBER POINT		
FLR FN	FLOOR FIELD NAILING	RAD	RADIUS		
FND	FOUNDATION	REF	REFERENCE		
FO	FACE OF	REINF REQD	REINFORCE(D) (ING) OR (MENT) REQUIRED		
FP FRM'G	FIREPROOF(ING) FRAMING	REV	REVISION		
FS	FAR SIDE	RWD	REDWOOD		
FTG	FOOTING	SAD SCD	SEE ARCHITECTURAL DRAWINGS SEE CIVIL DRAWINGS		
GA GALV	GAGE, GAUGE GALVANIZED	SCHED	SCHEDULE(D)		
GB	GRADE BEAM	SECT	SECTION STRUCTURAL ENGINEER OF		
GEN	GENERAL DE LA MANATER REALA	SEOR	STRUCTURAL ENGINEER OF RECORD		
GLB GR	GLUE-LAMINATED BEAM GRADE	SF	SQUARE FOOT (FEET)		
GYP	GYPSUM	SHT	SHEET		
HD	HOLDOWN	SIM SLRS	SIMILAR SEISMIC LOAD RESISTING		
HDR	HEADER		SYSTEM		



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RENOVATION

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VANESSA GARRETT P.E. CE84141 CITY ENGINEER

	REVISION SCHEDULE					
NO	DATE	BY	DESCRIPTION			
1	11/03/2022		AGENCY PLAN REVIEW			
<u>^2</u>	12/02/2022		AGENCY PLAN REVIEW			

DRAWN: Author CHECKED: Checker **DATE**: 02/25/2022 **SCALE**: 12" = 1'-0" PROJECT NUMBER: 2010200

SYMBOLS AND

ABBREVIATIONS

DRAWING NUMBER:

I. GENERAL REQUIREMENTS

- A. THE STRUCTURAL DRAWINGS AND PROJECT SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THE MEANS, METHODS, PROCEDURES AND SEQUENCE OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND ENSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.
- B. DURING THE CONSTRUCTION PERIOD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONNEL AND PROPERTY ON AND AROUND THE JOBSITE. THE CONTRACTOR SHALL PROVIDE SHORING, BRACING, GUYS, ETC. IN ACCORDANCE WITH ALL LOCAL, STATE, AND NATIONAL STANDARDS.
- C. ALL CONSTRUCTION, TESTING, AND INSPECTIONS SHALL CONFORM TO THE BUILDING CODE REFERENCED UNDER THE HEADING "BASIS OF DESIGN" BELOW.
- D. STANDARDS REFERENCED IN THESE DRAWINGS SHALL BE THE LATEST EDITION, UNLESS OTHERWISE NOTED.
- E. SEE DRAWINGS OTHER THAN STRUCTURAL FOR: FLOOR FINISHES; DEPRESSIONS IN FLOOR SLABS; OPENINGS IN WALLS AND FLOORS REQUIRED BY ARCHITECTURAL AND MEP FEATURES; EXTERIOR PAVING; CURBS; SLOPES; DRAINS; PADS; NON-STRUCTURAL PARTITIONS; EMBEDDED ITEMS; ETC. COORDINATE THESE ITEMS WITH THE STRUCTURAL DRAWINGS.
- F. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT THE JOB SITE BEFORE COMMENCING WORK AND SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT.
- G. OMISSIONS OR DISCREPANCIES BETWEEN THE VARIOUS ELEMENTS OF THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND STRUCTURAL ENGINEER AND RESOLVED BEFORE PROCEEDING WITH THE WORK.
- H. DO NOT SCALE THE DRAWINGS; USE WRITTEN DIMENSIONS ONLY. WHERE NO DIMENSIONS ARE PROVIDED OR WHERE DIMENSIONS PROVIDED CONFLICT WITH OTHER DRAWINGS. CONSULT THE ARCHITECT AND SEOR.
- I. WHERE MEMBER LOCATIONS ARE NOT DIMENSIONED, MEMBERS SHALL BE LOCATED ON COLUMN LINES OR EQUALLY SPACED BETWEEN MEMBERS ON COLUMN LINES OR BETWEEN MEMBERS OTHERWISE LOCATED. CENTERLINES OF COLUMNS, WALLS, FRAMING MEMBERS, AND FOUNDATIONS COINCIDE WITH GRIDLINES, UNLESS OTHERWISE NOTED.
- J. TYPICAL DETAILS ARE INTENDED TO APPLY TO APPLICABLE SITUATIONS, UNLESS OTHERWISE NOTED. TYPICAL DETAILS MAY NOT BE SPECIFICALLY LOCATED.
- K. DETAILS SHALL BE APPLIED TO EVERY LIKE CONDITION WHETHER OR NOT THEY ARE REFERENCED IN EVERY INSTANCE. FOR CONDITIONS NOT SPECIFICALLY SHOWN, USE DETAILS SIMILAR TO THOSE PROVIDED.
- L. CONTRACTOR SHALL COORDINATE SEWER AND UTILITY LINE LOCATIONS WITH THE FOUNDATION LOCATIONS AND SIZES SHOWN ON THE STRUCTURAL DRAWINGS. ANY INTERFERENCE BETWEEN SEWER/UTILITY LINES AND FOUNDATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND SEOR BEFORE PROCEEDING WITH THE WORK.
- M. THE CONTRACTOR SHALL VERIFY THAT CONSTRUCTION LOADS DO NOT EXCEED THE CAPACITY OF THE STRUCTURE AT THE TIME THE LOADS ARE PLACED.

II. EXISTING CONSTRUCTION

- A. WORK SHOWN IS NEW UNLESS OTHERWISE NOTED AS EXISTING, (E).
- B. EXISTING CONSTRUCTION SHOWN IN THESE DRAWINGS ARE SHOWN FOR REFERENCE ONLY. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, REVIEW ALL AVAILABLE EXISTING DRAWINGS AND VERIFY DIMENSIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND SEOR OF ALL DISCREPANCIES AND EXCEPTIONS BEFORE PROCEEDING WITH THE WORK.
- C. THE REMOVAL, CUTTING, DRILLING, ETC. OF EXISTING WORK SHALL BE PERFORMED WITH GREAT CARE AND SMALL TOOLS IN ORDER TO MAINTAIN THE STRUCTURAL INTEGRITY OF THE BUILDING. IF EXISTING STRUCTURAL MEMBERS NOT INDICATED FOR REMOVAL INTERFERE WITH THE NEW WORK, THE SEOR SHALL BE NOTIFIED IMMEDIATELY. APPROVAL SHALL BE OBTAINED PRIOR TO REMOVAL OF THE EXISTING MEMBERS.
- D. THE CONTRACTOR SHALL SAFELY SHORE EXISTING CONSTRUCTION WHEREVER EXISTING SUPPORTS ARE REMOVED TO ALLOW INSTALLATION OF THE NEW WORK. THE EXISTING CONSTRUCTION SHALL BE CONNECTED AND/OR EMBEDDED INTO THE NEW CONSTRUCTION AS SHOWN OR SPECIFIED.
- E. ALL SHORING METHODS AND SEQUENCING OF DEMOLITION SHALL BE SPECIFIED BY A LICENSED CIVIL OR STRUCTURAL ENGINEERING IN THE STATE OF CALIFORNIA TO BE RETAINED BY THE CONTRACTOR. SEE SPECIFICATIONS FOR DETAILED REQUIREMENTS.
- F. THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES BEFORE BEGINNING WORK. SPECIAL CARE SHALL BE TAKEN TO PROTECT UTILITIES THAT ARE TO REMAIN IN SERVICE DURING CONSTRUCTION.
- G. THE CONTRACTOR SHALL PROMPTLY REPAIR DAMAGE CAUSED DURING OPERATIONS WITH SIMILAR MATERIALS AND WORKMANSHIP.
- H. THE CONTRACTOR SHALL LOCATE EXISTING REINFORCING STEEL WHERE EXISTING CONCRETE IS TO BE CUT, CORED OR SAWN. LOCATION SHALL BE DONE USING A NON-DESTRUCTIVE METHOD. DO NOT DAMAGE EXISTING REINFORCING WITHOUT NOTIFYING THE ARCHITECT AND SEOR.
- J. ALL EXISTING CONCRETE SURFACES IN CONTACT WITH NEW CONCRETE SHALL BE INTENTIONALLY ROUGHENED TO 1/4" AMPLITUDE WITH EXPOSED AGGREGATE.

III. BASIS OF DESIGN

- A. THE STRUCTURAL DESIGN OF THIS PROJECT IS GOVERNED BY THE 2019 CALIFORNIA BUILDING CODE (CBC).
- B. RISK CATEGORY = II
- C. DEAD LOADS: SELF-WEIGHT OF STRUCTURE
- 2. ALLOWANCES: a. MECHANICAL EQUIPMENT = AS NOTED ON THE DRAWINGS
- D. LIVE LOADS: 1. ROOF = 20 PSF
- E. SNOW LOADS: N/A
- F. WIND DESIGN DATA: N/A
- G. SEISMIC DESIGN DATA:
- 1. I = 1.00
- 2. SDS = 1.594 g
- 3. SD1 = 0.866 g 4. SITE CLASS = D (DEFAULT)
- 5. SEISMIC DESIGN CATEGORY = E

IV. FOUNDATION

- A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS GOVERNING EXCAVATION AND SHORING.
- B. SPREAD FOOTINGS HAVE BEEN DESIGNED FOR AN ALLOWABLE BEARING PRESSURE OF 1500
- C. SCARIFY EXISTING SOIL 6" DEEP AT THE BOTTOM OF ALL EXCAVATION DAMPEN TO A UNIFORM MOISTURE CONTENT OF 2% OVER MAXIMUM. COMPACT TO 95% OF MAXIMUM DENSITY PER ASTM
- D. SLABS ON GRADE SHALL BE CONSTRUCTED ON A 4" MINIMUM THICK BASE OF COMPACTED GRANULAR FILL OVER ENGINEERED FILL. COMPACTED FILL TO BE PLACED IN LIFTS NOT TO EXCEED 8" LOOSE MEASURE AND COMPACTED TO NOT LESS THAN 90% RELATIVE COMPACTION AT OPTIMUM MOISTURE CONTENT PLUS OR MINUS 2% IN ACCORDANCE WITH ASTM D1557.
- E. BACKFILL BEHIND WALLS SHALL BE COMPACTED GRANULAR FILL TYP UON. DO NOT BACKFILL BEHIND WALLS UNTIL THE CONCRETE HAS ATTAINED 100% OF ITS SPECIFIELD COMPRESSIVE STRNEGTH. PLACE AND COMPACT BACKFILL BEHIND WALLS BEFORE ATTACHING FLOORS AT THE TOP OF WALL. COMPACT BACKFILL TO 90% OF MAXIMUM DENSITY PER ASTM D1557 TYP

- F. OVER EXCAVATE TO REMOVE ANY CRACKED OR LOOSE EXISTING MATERIAL BELOW SLAB AND FOOTING EXCAVATIONS. BACKFILL WITH LEAN CONCRETE fc = 1500PSI @ 28 DAYS AS
- G. ALL FOUNDATIONS SHALL BE PLACED ON FIRM UNDISTURBED EARTH. HOLES DUE TO REMOVAL OF LARGE ROCKS OR OVER-EXCAVATION SHALL BE FILLED WITH CONCRETE. UNLESS SHOWN OTHERWISE, FOOTINGS SHALL BE PLACED A MINIMUM OF 2 FEET BELOW FINISH GRADE OF THE EXTERIOR GROUND LINE.

V. CONCRETE

- A. MIXING, BATCHING, TRANSPORTING AND PLACING OF ALL CONCRETE SHALL CONFORM TO ACI 301, SPECIFICATION FOR STRUCTURAL CONCRETE FOR BUILDINGS.
- B. ALL CONCRETE SHALL BE THOROUGHLY CONSOLIDATED
- C. THE SCHEDULE BELOW INDICATES THE MINIMUM CONCRETE DESIGN MIX REQUIREMENTS. SEE THE SPECIFICATIONS FOR ADDITIONAL CONCRETE PROPERTIES.

<u>TYPE</u>	LOCATION	MINIMUM 28-DAY STRENGTH (PSI)	MAXIMUM WEIGHT (PCF)
Α	FOOTINGS & WALLS	3000	150
В	SLAB ON GRADE	3000	150

- D. CONCRETE CLEAR COVER OVER MILD REINFORCING STEEL SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED:
- 1. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH = 3"
- 2. CONCRETE EXPOSED TO EARTH OR WEATHER:
- a. NO. 5 BARS AND SMALLER = 1-1/2"
- b. NO. 6 BARS AND LARGER = 2" CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
- a. SLABS, WALLS, JOISTS:
- 4. NO. 11 BARS AND SMALLER = 3/4"
- 5. NO. 14 BARS AND LARGER = 1-1/2" a. BEAMS, COLUMNS:
- 6. PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS = 1-1/2"
- a. SHELLS, FOLDED PLATE MEMBERS: 7. NO. 5 BARS AND SMALLER = 1/2"
- 8. NO. 6 BARS AND LARGER = 3/4"
- E. NON-SHRINK GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 6000 PSI AT 28
- F. CONSTRUCTION JOINTS
- 1. NO HORIZONTAL CONSTRUCTION JOINTS ARE PERMITTED IN BEAMS, WALLS OR SLABS UNLESS APPROVED BY THE SEOR IN WRITING.
- 2. ALL CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TYPICAL
- CONSTRUCTION JOINT DETAILS. 3. ALL CONSTRUCTION JOINT LOCATIONS SHALL BE COORDINATED AND CONSTRUCTED IN
- ACCORDANCE WITH ARCHITECTURAL FINISHES AND TREATMENTS. 4. ALL SURFACES OF CONSTRUCTION JOINTS SHALL BE CLEANED TO REMOVE DUST, CHIPS

OR OTHER FOREIGN MATTER PRIOR TO PLACING ADJACENT CONCRETE

VI. REINFORCING STEEL

- A. ALL REINFORCING BARS SHALL BE DEFORMED BARS CONFORMING TO THE REQUIREMENTS OF ASTM A615 AND ASTM A706 WHERE REQUIRED; ALL BARS TO BE GRADE 60 UNLESS OTHERWISE
- B. REINFORCING BARS TO BE WELDED SHALL BE ASTM A706.
- C. WELDED WIRE REINFORCING SHALL BE ASTM A185.
- D. WELDED BAR ANCHORS SHALL BE NELSON D2L DEFORMED BAR ANCHORS PER ICC-ES
- E. DETAIL REINFORCING STEEL BASED ON THE PROJECT REQUIREMENTS, ACI 318, AND ACI 315.
- F. TERMINATION OF REINFORCEMENT: 1. TERMINATE ALL BARS IN LAPS, 90 DEGREE BENDS OR WITH DOWELS EPOXIED INTO EXISTING CONCRETE.

2. PROVIDE DOWELS INTO FOOTINGS BELOW AND SLABS ABOVE AT WALLS AND COLUMNS OF

- SAME SIZE AND SPACING AS VERTICAL REINFORCEMENT G. WHERE A 90 DEGREE, 135 DEGREE OR 180 DEGREE HOOK IS GRAPHICALLY INDICATED,
- PROVIDE CORRESPONDING ACI STANDARD HOOK PER DETAIL 3/S5.0. H. SPLICES
- 1. LAP REINFORCING STEEL AS SPECIFICALLY DETAILED ON THE DRAWINGS. SEE REBAR OFFSET AND LAP SPLICE SCHEDULE IN DETAIL 10/S5.0
- 2. UNLESS OTHERWISE NOTED, ALL LAP SPLICES ARE TO BE CLASS B.
- 3. MECHANICAL SPLICES, IF USED AT CONTRACTOR'S OPTION, SHALL BE ICC-ES APPROVED AND CAPABLE OF DEVELOPING 125% OF THE SPECIFIED MINIMUM YIELD STRENGTH OF THE BAR IN TENSION OR COMPRESSION
- 4. LOCATE LAPS IN REINFORCING STEEL AS FOLLOWS: a. TOP HORIZONTAL REINFORCEMENT IN BEAMS AND WALLS AT SUPPORTS.
- b. BOTTOM HORIZONTAL REINFORCEMENT IN BEAMS AND WALLS AT MIDSPAN. c. VERTICAL REINFORCEMENT AT INSIDE FACE OF WALL AT SUPPORTS.
- d. VERTICAL REINFORCEMENT AT OUTSIDE FACE OF WALL AT MIDHEIGHT OF WALL.

VII. STRUCTURAL STEEL

- A. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS.
- B. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH AWS D1.1 AND PERFORMED BY AWS CERTIFIED WELDERS.
- C. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING:
- 1. WIDE FLANGES AND WTS = ASTM A992, GR 50
- 2. MISCELLANEOUS PLATES = ASTM A36
- 3. CONTINUITY PLATES AND PLATES FOR BUILT-UP MEMBERS = ASTM A572, GR 50 4. GUSSET PLATES = ASTM A572, GR 50
- 5. ANGLES AND CHANNELS = ASTM A36 6. RECTANGULAR AND SQUARE HSS MEMBERS = ASTM A500, GR B
- 7. ROUND HSS MEMBERS = ASTM A500. GR B
- 8. PIPES = ASTM A53, GR B
- 9. HIGH STRENGTH BOLTS = ASTM A325N, UON
- 10.NUTS = ASTM A563
- 11.WASHERS (FLAT OR BEVELLED) = ASTM F436
- 12.ANCHOR RODS = ASTM F1554. GR 36 UON 13.WELDED HEADED STUDS = ASTM A108, NELSON/TRW S3L OR H4L

14.STEEL DECK = ASTM A653, SS GR 33 (Fy MIN = 38 KSI)

- 15.WELDING ELECTRODES = E70XX. UON D. BOLT HOLES SHALL BE NO MORE THAN 1/16" OVERSIZE, UON. WHERE OVERSIZED HOLES
- ARE PROVIDED AT BASE PLATES, PROVIDE PLATE WASHERS PER DETAIL 5a/S5.2.
- E. ALL STEEL EXPOSED TO WEATHER SHALL BE GALVANIZED. UON.
- F. FIELD MODIFICATIONS TO STRUCTURAL STEEL MEMBERS IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE ARCHITECT AND SEOR.

VIII. POST-INSTALLED ANCHORS

UNLESS OTHERWISE NOTED.

- A. POST-INSTALLED ANCHORS INCLUDE EXPANSION ANCHORS, EPOXY ANCHORS AND REINFORCING STEEL DOWELS, SCREW ANCHORS AND POWDER-ACTUATED FASTENERS.
- B. DO NOT DAMAGE OR CUT EXISTING REINFORCING STEEL WHILE INSTALLING POST-INSTALLED ANCHORS. NOTIFY SEOR IF EXISTING REINFORCING STEEL INTERFERES WITH INSTALLATION OF POST-INSTALLED ANCHORS.
- C. ALL MIS-DRILLED OR UNACCEPTABLE HOLES SHALL NOT BE USED AND SHALL BE GROUTED
- D. ALL POST-INSTALLED ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE ICC-ES REPORT AND MANUFACTURER'S RECOMMENDATIONS.

E. PROVIDE SPECIAL INSPECTION FOR THE INSTALLATION OF ALL POST-INSTALLED ANCHORS,

- F. FIELD TEST POST-INSTALLED ANCHORS, UNLESS OTHERWISE NOTED. FIELD TESTING SHALL BE IN COMPLIANCE WITH THE FOLLOWING:
- 1. 10% OF POST-INSTALLED ANCHORS USED FOR SILL PLATE BOLTING SHALL BE TESTED; 100% OF ALL OTHER POST-INSTALLED ANCHORS USED FOR STRUTURAL APPLICATIONS
- 2. 50% OF POST-INSTALLED ANCHORS USED FOR NON-STRUCTURAL APPLICATIONS SHALL BE TESTED, INCLUDING ONE HALF OF ALL ANCHORS IN EACH GROUP. a. IF ANY ANCHOR FAILS TESTING, ALL ANCHORS OF THE SAME TYPE THAT ARE
- UNTESTED SHALL BE TESTED UNTIL 20 CONSECUTIVE ANCHORS PASS. b. NO TESTING REQUIRED FOR POWDER-ACTUATED FASTENERS USED TO ATTACH TRACKS OF INTERIOR, NON-STRUCTURAL PARTITION WALLS WHERE THERE ARE AT
- LEAST THREE FASTENERS PER PIECE OF TRACK. 3. NO TESTING REQUIRED OF REINFORCING STEEL DOWELS ACROSS COLD JOINTS IN
- CONCRETE SLABS ON GRADE.
- 4. TORQUE TESTING MAY BE USED FOR TORQUE CONTROLLED POST-INSTALLED ANCHORS; TENSION TEST ALL OTHER POST-INSTALLED ANCHORS
- 5. TORQUE TESTING SHALL BE IN ACCORDANCE WITH CBC SECTION 1913A.7.4.2. TENSION TESTING SHALL BE IN ACCORDANCE WITH CBC SECTION 1913A.7.4.1.

7. ALL FIELD TESTING SHALL BE DONE UNDER THE OBSERVATION OF THE PROJECT

- 8. TESTING SHALL OCCUR AT LEAST 24 HOURS AFTER THE ANCHOR HAS BEEN INSTALLED.
- G. EPOXY ANCHORS AND REINFORCING STEEL DOWELS
- 1. FOR INSTALLATION IN CONCRETE, EPOXY SHALL BE ONE OF THE FOLLOWING: a. SET-XP PER ICC-ES ESR-2508 AS MANUFACTURED BY SIMPSON STRONG TIE b. HIT-RE 500 V3 PER ICC-ES ESR-3814 AS MANUFACTURED BY HILTI, INC.
- c. HY-200 PER ICC-ES ESR-3187 AS MANUFACTURED BY HILTI, INC. 2. EPOXIED ANCHOR RODS SHALL BE CARBON STEEL THREADED RODS PER APPROPRIATE ICC-ES REPORT; EPOXIED REINFORCING STEEL DOWELS SHALL BE ASTM A615 GR 60 UNLESS
- 3. MINIMUM ANCHOR EMBEDMENT AND TENSION TEST VALUES ARE AS FOLLOWS:

EPOXY ANCHORS IN NORMAL-WEIGHT CONCRETE (f'c = 3000 PSI MIN)

DED 4 D 0175	EMPED (IM)	TENSION TEST VALUE (LBS)			
REBAR SIZE	EMBED (IN)	HY-200	HIT-RE 500-V3	SET-XP	
#3	3	2900	2750	1050	
#4	4	5180	4940	3760	
#5	5	8130	7870	5270	
#6	6	11120	11120	6780	
#7	7	12260	14020	8060	
#8	8	16120	17120	8990	
#9	9	20430	20430	N/A	
#10	10	23930	23930	8780	

EPOXY ANCHORS IN NORMAL-WEIGHT CONCRETE (f'c = 3000 PSI MIN)				
THREADED ROD	EMPED (INI)	TENSION TEST VALUE (LBS)		
DIAMETER (IN)	EMBED (IN)	HY-200	HIT-RE 500-V3	SET-XP
3/8	3	2900	2750	1710
1/2	4	5180	4570	2610
5/8	5	8130	7140	3470
3/4	6	11120	10160	4430
7/8	7	12260	13820	5550
1	8	20430	17120	7050
1 1/4	10	23930	23930	11110

4. NO TESTING IS REQUIRED FOR #3 REINFORCING STEEL EPOXIED DOWELS AT CURBS AND HOUSEKEEPING PADS.

G. EXPANSION ANCHORS

- 1. FOR INSTALLATION IN CONCRETE, EXPANSION ANCHORS SHALL BE ONE OF THE **FOLLOWING:** a. STRONG BOLT 2 PER ICC-ES ESR-3037 AS MANUFACTURED BY SIMPSON STRONG
- b. KWIK BOLT TZ PER ICC-ES ESR-1917 AS MANUFACTURED BY HILTI. INC.
- 2. FOR INSTALLATION IN FULLY-GROUTED CONCRETE MASONRY, EXPANSION ANCHORS SHALL BE ONE OF THE FOLLOWING:
- a. WEDGE ALL PER ICC-ES ESR-1396 AS MANUFACTURED BY SIMPSON STRONG TIE. b. KWIK BOLT 3 PER ICC-ES ESR-1385 AS MANUFACTURED BY HILTI, INC. 3. USE STAINLESS STEEL AT EXTERIOR, WEATHER-EXPOSED OR DAMP LOCATIONS; CARBON STEEL EXPANSION ANCHORS MAY BE USED AT ALL OTHER LOCATION, UNLESS
- OTHERWISE NOTED. 4. MINIMUM ANCHOR EMBEDMENT AND TORQUE TEST VALUES ARE AS FOLLOWS:

KWIK BOLT TZ IN LIGHT WEIGHT CONCRETE (f'c = 3000 PSI MIN) ANCHOR MINIMUM HOLE TORQUE TEST DIAMETER DEPTH (IN) VALUE (FT-LBS) 2 5/16 2 5/8 2 3/8 2 5/8

3 7/8

3 9/16

STRON	G BOLT 2 IN LIGHT	WEIGHT CONCRETE	(f'c = 3000 PSI MIN)
ANCHOR DIAMETER	EMBED (IN)	MINIMUM HOLE	TORQUE TEST
(IN)		DEPTH (IN)	VALUE (FT-LBS)
3/8	1 7/8	2	30
1/2	2 3/4	3	60
5/8	3 3/8	3 5/8	90
3/4	4 1/8	4 3/8	150

- 5. WHERE EXPANSION ANCHORS ARE INSTALLED IN CONTACT WITH WOOD FRAMING, PROVIDE AN OVERSIZE WASHER IN ORDER TO ACHIEVE TORQUE REQUIRED BY ICC-ES REPORT. USE 1/4"x3"x3" WASHER, MINIMUM.
- 6. CONTRACTOR SHALL PROVIDE ANCHORS WITH SUFFICIENT TOTAL LENGTH FOR THE SPECIFIED EMBEDMENT LENGTH, THICKNESS OF FASTENED PART, WASHER AND NUT.
- H. SCREW ANCHORS 1. FOR INSTALLATION IN CONCRETE, SCREW ANCHORS SHALL BE ONE OF THE
- a. TITEN HD PER ICC-ES ESR-2713 AS MANUFACTURED BY SIMPSON STRONG TIE. b. KWIK HUS-EZ PER ICC-ES ESR-3027 AS MANUFACTURED BY HILTI. INC. 2. MINIMUM ANCHOR EMBEDMENT AND TENSION TEST VALUES ARE AS FOLLOWS:

TITEN HD IN NORMAL WEIGHT CONCRETE (f'c = 3000 PSI MIN)			
ANCHOR DIAMETER	EMBED (IN)	MINIMUM HOLE	TENSION TEST
(IN)		DEPTH (IN)	VALUE (FT-LBS)
3/8	2 1/2	3	1200
1/2	3 1/4	3 3/4	2973
5/8	4	4 1/2	3935
3/4	5 1/2	6	5895

ANCHOR DIAMETER		EMBED (IN)	MINIMUM HOLE	TENSION TEST
(IN)		LIVIDED (IIV)	DEPTH (IN)	VALUE (FT-LBS
1	1/4	2 1/2	2 7/8	1133
3	3/8	2 1/2	2 3/4	2093
1	1/2	2 1/4	2 5/8	1547
5	5/8	3 1/4	3 5/8	3049
3	3/4	4	4 3/8	4118

- I. POWDER-ACTUATED FASTENERS
- a. SIMPSON STRONG TIE POWDER-ACTUATED FASTENERS PER ICC-ES ESR-2138 FOR
- b. HILTI, INC. X-U PER ICC-ES ESR-2269 FOR ANCHORAGE OF METAL TO CONCRETE,
- c. HILTI, INC. X-CP 72 PER ICC-ES ESR-2379 FOR ANCHORAGE OF SILL PLATES TO
- PROVIDE 0.08"x1.1"x1.1" SQUARE OR 0.08"x1.425" DIAMETER ROUND WASHER AT EACH PAF.
- 3. MINIMUM PAF EMBED INTO CONCRETE SHALL BE 1", UNLESS OTHERWISE NOTED.

- A. THE CONTRACTOR SHALL REVIEW EACH SUBMITTAL PRIOR TO SENDING TO THE ARCHITECT AND SEOR. SUBMITTALS WILL ONLY BE REVIEWED IF THEY ARE BASED ON THE LATEST DESIGN, IF THEY ADDRESS ANY COMMENTS FROM PREVIOUS VERSIONS OF THE SUBMITTAL, IF THE WORK IS COORDINATED WITH ALL OTHER TRADES, AND IF THE SUBMITTAL DOES NOT INCLUDE SUBSTITUTION REQUESTS. SUBMITTALS NOT MEETING THESE REQUIREMENTS WILL BE
- B. THE SEOR'S REVIEW OF EACH SUBMITTAL SHALL BE FOR GENERAL CONFORMANCE WITH THE
- C. NO WORK SHALL PROCEED PRIOR TO THE SEOR'S AND ARCHITECT'S APPROVAL OF THE SUBMITTAL.
- D. THE FOLLOWING ITEMS REQUIRE A SUBMITTAL FOR STRUCTURAL REVIEW. SEE THE
- 1. CONCRETE MIX DESIGN
- 2. STRUCTURAL STEEL 3. REINFORCING STEEL SHOP DRAWINGS

X. TESTING AND INSPECTION

- A. SPECIAL INSPECTIONS SHALL BE PERFORMED BY A SPECIAL INSPECTOR PER CBC SECTIONS 1704 AND 1705. THE SPECIAL INSPECTOR SHALL BE RETAINED BY THE OWNER AND
- B. THE FOLLOWING ITEMS SHALL RECEIVE SPECIAL INSPECTION BY A CERTIFIED SPECIAL INSPECTOR AS DESCRIBED ABOVE PER CITY OF ROHNERT PARK SPECIAL INSPECTION AND
- 2. POST INSTALLED ANCHORS

3. STRUCTURAL STEEL

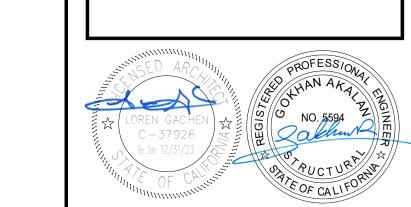
ANCHOR DIAMETER	EMBED (IN)	MINIMUM HOLE	TENSION TEST
(IN)	LIVIDED (IIV)	DEPTH (IN)	VALUE (FT-LBS
1,	2 1/2	2 7/8	1133
3,	3 2 1/2	2 3/4	2093
1,	2 2 1/4	2 5/8	1547
5,	3 1/4	3 5/8	3049
3,	4 4	4 3/8	4118

- 1. PAF SHALL BE ONE OF THE FOLLOWING:
- ANCHORAGE OF METAL TO CONCRETE, MASONRY OR STEEL.
- 4. MINIMUM PAF EMBED INTO STEEL SHALL BE PER MANUFACTURER.

IX. SUBMITTALS AND DEFERRED APPROVALS

- RETURNED TO THE CONTRACTOR WITHOUT COMMENT.
- DESIGN INTENT.
- SPECIFICATIONS FOR ADDITIONAL INFORMATION.

- NOT BY THE CONTRACTOR.
- OBSERVATION FORM. 1. WELDING



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510-450-1999 P

DRIVE 94928

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VANESSA GARRETT P.E. CE84141

CITY ENGINEER **REVISION SCHEDULE** DATE BY DESCRIPTION 11/03/2022 AGENCY PLAN REVIEW AGENCY PLAN REVIEW 12/02/2022

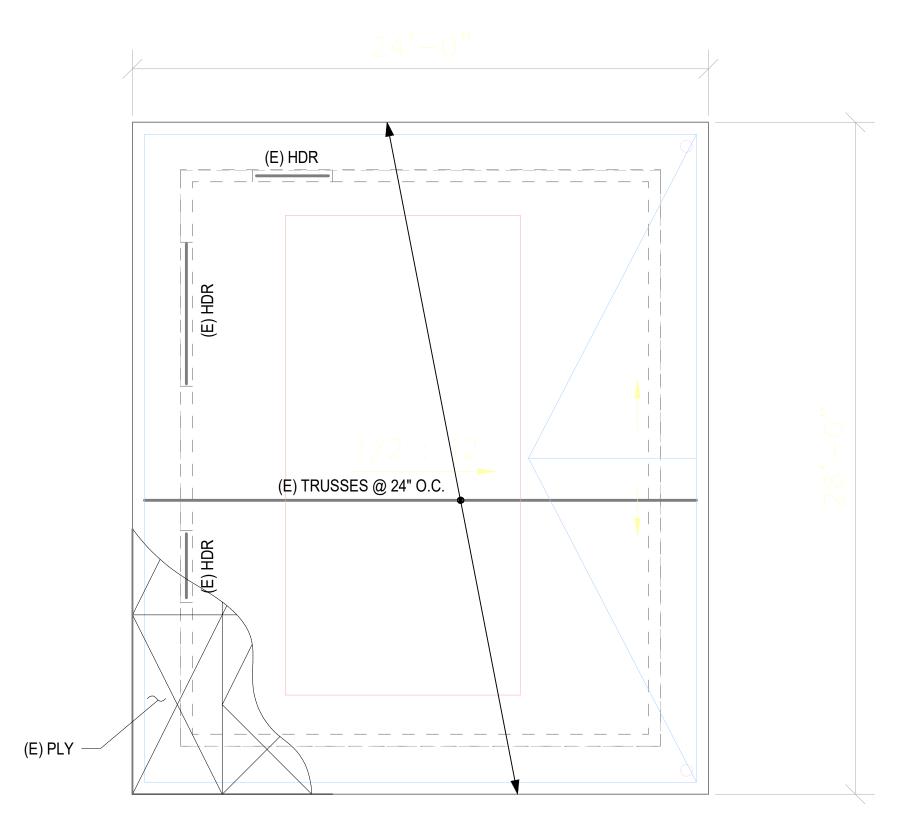
DRAWN: Author **CHECKED**: Checker **DATE**: 02/25/2022 | **SCALE**: 1 1/2" = 1'-0

PROJECT NUMBER: 2010200

AGENCY BACKCHECK

NUMBER:

GENERAL NOTES



ROOF FRAMING PLAN

1 FOUNDATION PLAN

REMOVE (E) SCREEN -WALL AND REFRAME

HSS5x2x1/4 POST

> (E) STEEL PIPE, TYP

HSS5x2x1/4 POST

REMOVE (E) SCREEN WALL AND REFRAME

SHEET NOTES

1. SEE GENERAL NOTES ON SHEET S 1.0, S1.1.

2. FOR DIMENSION AND ELEVATIONS SEE ARCHITECTURAL DRAWINGS.

- 3. STRUCTURAL STUD WALLS SUPPORTING THE ROOF ARE SHOWN THUS ==== ON PLAN AND SHALL BE 2X6 STUDS @ 16" O.C. UON. SEE ARCHITECTURAL DRAWINGS FOR NON-LOAD BEARING PARTITIONS. SEE DETAILS ON SHEET
- 4. FOR ROOF DRAINS, OPENINGS, FACIA DETAILS, ETC., SEE DRAWINGS OTHER THAN STRUCTURAL.
- 5. FOR LOCATIONS OF EQUIPMENT AND SHAFT OPENINGS S.A.D. AND S.M.D. CONTRACTOR SHALL COORDINATE LOCATIONS OF EQUIPMENT SUPPORT BEAMS WITH EQUIPMENT REQUIREMENTS.
- 6. WHERE METAL FRAMING CONNECTORS ARE REQUIRED, "SIMPSON" CONNECTORS ARE DENOTED.
- 7. SEE TYPICAL CONCRETE DETAILS ON SHEET S5.0, S5.1.

1/4" = 1'-0"

- 8. SEE GENERAL NOTES ON S1.1 FOR FOOTING DESIGN CRITERIA.
- 9. EXCAVATIONS SHALL BE MADE AS NEAR AS POSSIBLE TO THE NEAT LINES REQUIRED BY THE SIZE AND SHAPE OF THE STRUCTURE. NO MATERIAL IS TO BE EXCAVATED UNNECESSARILY.
- 10.ALL FOUNDATION EXCAVATIONS MUST BE REVIEWED AND APPROVED BY THE INSPECTOR PRIOR TO PLACEMENT OF CONCRETE. PROVIDE WRITTEN OBSERVATION REPORT TO CITY OF BERKELEY BUILDING DIVISION AND THE SEOR AS REQ'D.
- 11. VERIFY LOCATION OF UNDERGROUND UTILITIES BEFORE EXCAVATION. NOTIFY ARCHITECT PRIOR TO EXCAVATION IN THE EVENT SUCH UTILITIES ARE ENCOUNTERED.
- 12.FOR DRAINAGE DETAILS, SUMPS, PITS, DAMP PROOFING, TRENCHES, CURBS, EXTERIOR WALKS, UTILITIES, EQUIPMENT DETAILS, STEPS, ETC., SEE DRAWINGS OTHER THAN STRUCTURAL.
- 13.STRUCTURAL STUD WALLS ARE SHOWN THUS: ON PLAN AND SHALL BE 2X6 STUDS AT 16" ON CENTER U.O.N. SEE ARCH.DWGS. FOR NONLOAD BEARING PARTITION WALLS. FOR TYPICAL FRAMING OF STRUCTURAL STUD WALLS SEE
- 14. DENOTES POST U.O.N

DETAILS ON SHEET S8.0.

- 15. ALL WORK SHOWN IS NEW UNLESS NOTED AS EXISTING (E).
- 16. SHORE (E) FRAMING ABOVE AS REQUIRED.
- 17. ALL LUMBER EXPOSED TO WEATHER SHALL BE PRESSURE TREATED.

RECESS IN WALL

SEE 12

SS.1

SEE 12

SS.1

SEE 2

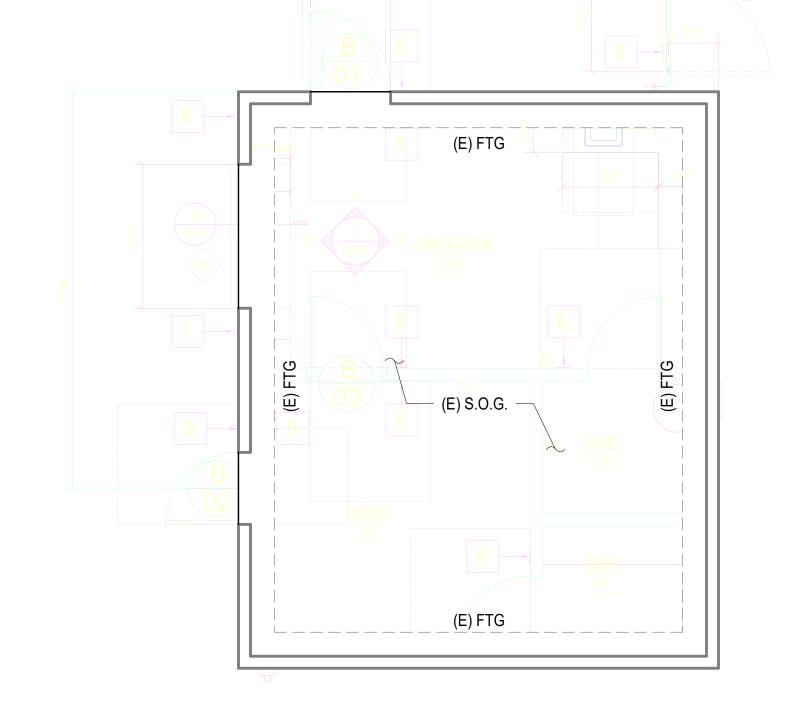
SS.1

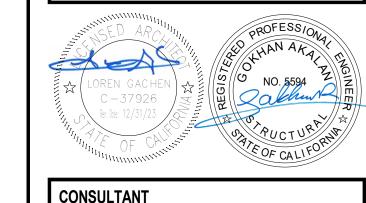
SS.1

SEE 2

SS.1

1/4" = 1'-0"





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RENOVATION

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VANESSA GARRETT P.E. CE84141 DATE CITY ENGINEER

	RE\	VISIO	N SCHEDULE
NO	DATE	BY	DESCRIPTION
1	11/03/2022		AGENCY PLAN REVIEW
2	12/02/2022		AGENCY PLAN REVIEW

DRAWN: Author CHECKED: Checker

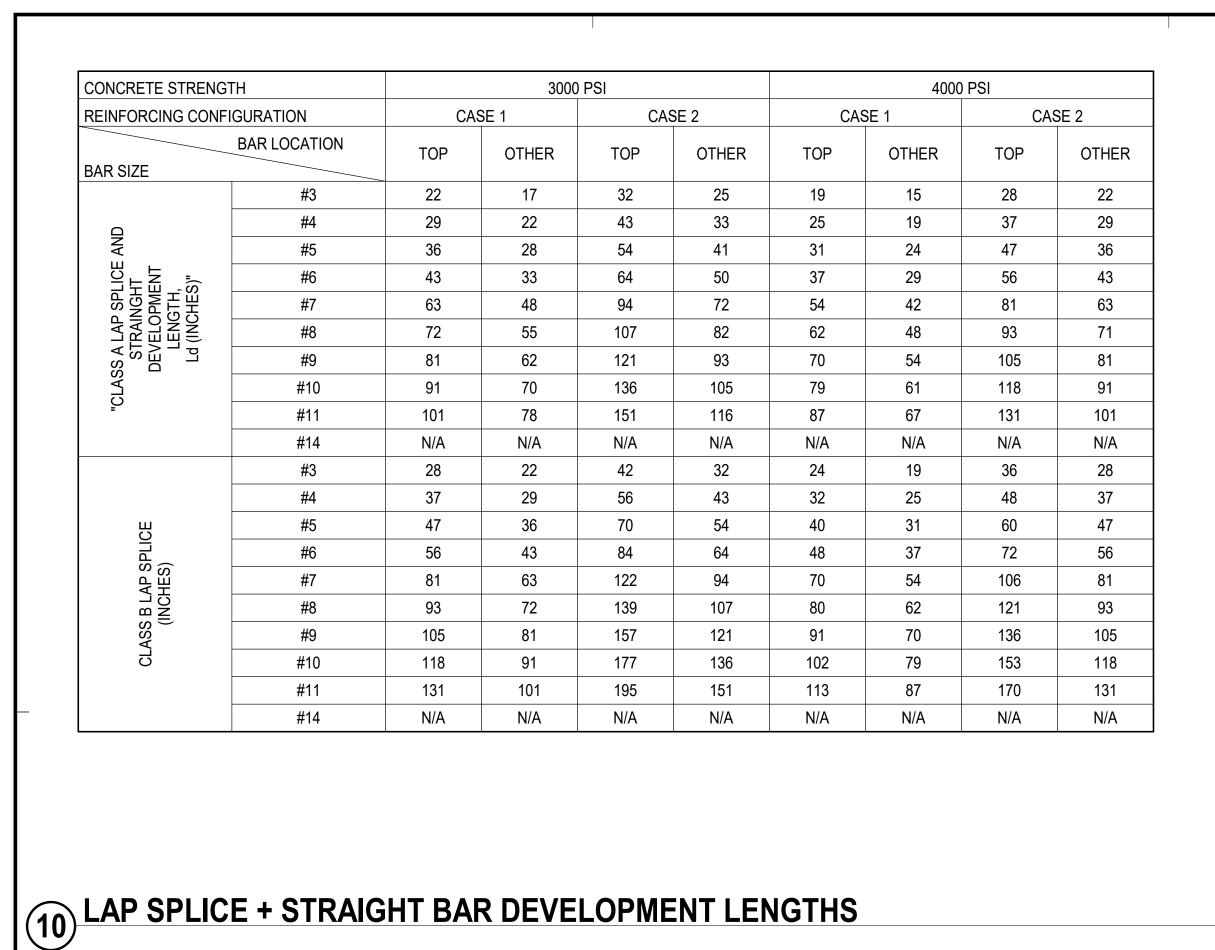
DATE: 02/25/2022 SCALE: As indicated

PROJECT NUMBER: 2010200

FOUNDATION AND ROOF FRAMING PLANS

DRAWING NUMBER: S2

AGENCY BACKCHECK



1. VALUES IN THE TABLE ARE FOR NON-EPOXY COATED GRADE 60 REINFORCING STEEL AND NORMAL WEIGHT CONCRETE

2. CASES 1 AND 2 ARE DEPENDENT ON THE TYPE OF CONCRETE ELEMENT, CONCRETE COVER AND CENTER-TO-CENTER SPACING OD REINFORCING BARS. THEY ARE DEFINED AS: CASE 1: BEAM AND COLUMNS:

CONCRETE COVER >= db

OTHER ELEMENTS:

- CENTER-TO-CENTER SPACING >= 2x db, AND - STIRRUPS OR TIES PROVIDED THROUGHTOUT Id OTHER ELEMENTS:

 CONCRETE COVER >= db AND - CENTER-TO-CENTER SPACING >= 3x db

BEAM AND COLUMNS: - CONCRETE COVER < db - CENTER-TO-CENTER SPACING < 2x db

- CENTER-TO-CENTER SPACING < 2x db

3. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF FRESH CONCRETE BELOW. OTHER BAR INCLUDE ALL VERTICAL REINFORCING. ALL HORIZONTAL WALL REINFORCING AND HORIZONTAL REINFORCING WITH LESS THAN 12" OF FRESH CONCRETE BELOW BAR.

4. PROVIDE CLASS B LAP SPLICES, U.O.N.

CONCRETE COVER < db AND

5. WHERE Id IS NOT OBTAINABLE DUE TO SPACE RETRICTIONS, PROVIDE A STANDARD HOOK PER DETAIL

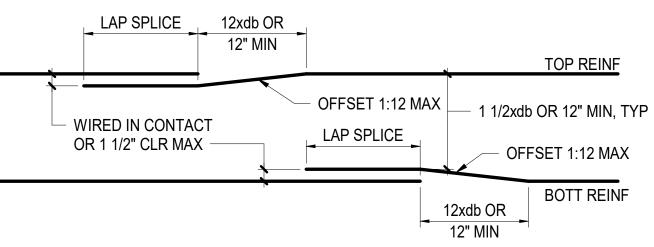
6. SPLICES OF HORIZONTAL REINFORCING BARS IN WALLS AND SLABS SHALL BE STAGGERED. SPLICES OF HORIZONTAL REINFORCING BARS IN WALLS AND SLABS CONTAINING TWO CURTAINS OF REINFORCEMENT SHALL NOT OCCUR IN THE SAME LOCATION; SPLICES SHALL BE OFFSET BY THE MAXIMUM OF 12 INCHES AND 12 BAR DIAMETERS.

MECHANICAL COUPLERS MAY BE USED IN LIEU OF LAP SPLICES. MECHANICAL COUPLERS SHALL BE PER IAPMO UES ER-0129 AND RESIST 125% OF REINFORCING BAR YIELD STRENGTH.

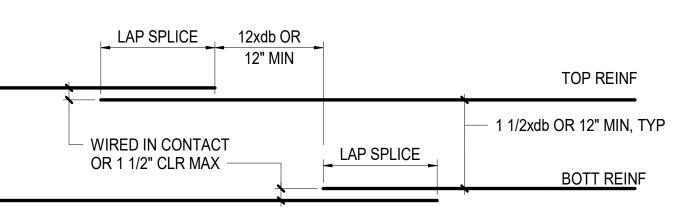
8. WHERE BARS OF DIFFERENT SIZES ARE SPLICED, SPLICE LENGTH SHALL BE THE MAXIMUM OF Id OF THE LARGER BAR AND THE LAP SPLICE LENGTH OF THE SMALLER BAR.

9. LAP TOP BARS AT MIDSPAN AND BOTTOM BARS AT SUPPORT, U.O.N.

10. NON-CONTACT LAP SPLICED BARS SHALL BE SPLACED AT LEAST 1 1/2" AND NO MORE THAN THE MAXIMUM OF ONE- FIFTH OF THE LAP SPLICE AND 6".



BEAM SPLICE DETAIL



1/5xLAP SPLICE OR 6" MAX (c) NON-CONTACT LAP SPLICE

STRAGGERED WALL OR SLAB SPLICE DETAIL

STD HOOKS

T.O. FINISHED GRADE - NO PIPES OR EXCAVATION PARALLEL TO FOOTING IN THIS ZONE PIPE OR CONDUIT IN BACK FILLED B.O. FOOTING LEAN CONC (E) FOOTING OR GRADE BEAM 1500 PSI CONCRETE PIPE OR CONDUIT FTG WIDTH 1'-6" MIN 4' - 0" MAX NOTES:

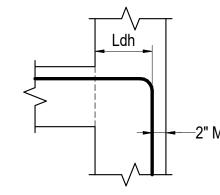
1. NOT TO BE LOCATED WITHIN 3'-0" OF COLUMN OR LOAD BEARING POST. COORDINATE WITH ELECTRICAL WORK. 2' - 0" MIN

HOOKED BAR DEVELOPMENT LENGTH, Ldh					
BAR	CONCRETE STRENGTH				
SIZE	3000 PSI	4000 PSI			
#3	0' - 8"	0' - 7"			
#4	0' - 11"	0' - 9"			
#5	1' - 2"	1' - 0"			
#6	1' - 4"	1' - 2"			
#7	1' - 7"	1' - 5"			
#8	1' - 10"	1' - 7"			
#9	2' - 1"	1' - 9"			
#10	2' - 3"	2' - 0"			
#11	2' - 6"	2' - 2"			

1. THE HOOKED BAR DEVELOPMENT LENGTHS IN CONCRETE. FOR LIGHTWEIGHT CONCRETE THE HOOKED BAR DEVELOPMENT LENGTH SHALL NOT BE LESS THEN 10xdb, 7 ½" AND 1.3xLdh PER THE TABLE ABOVE.

2. THE HOOKED BAR DEVELOPMENT LENGTHS IN THIS TABLE APPLY TO MEMBERS WITH:

a. SIDE COVER EQUAL TO AT LEAST 2 ½" b. END COVER EQUAL TO AT LEAST 2".



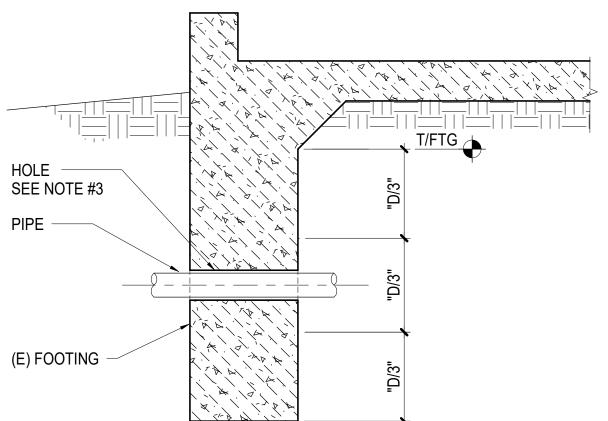
CURB INTERSECTIONS

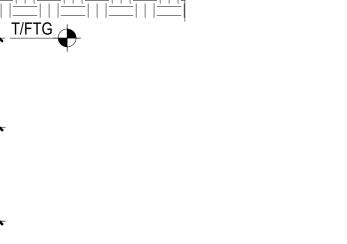
CLR PER GENERAL NOTES

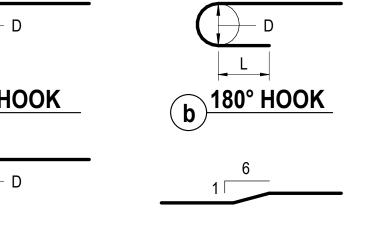
TYPICAL EXCAVATION PARALLEL TO FOOTING

TYPICAL CONDUIT OR PIPE UNDER FOOTING OR GRADE BEAM (ELEVATION)

HOOKED BAR DEVELOPMENT LENGTHS







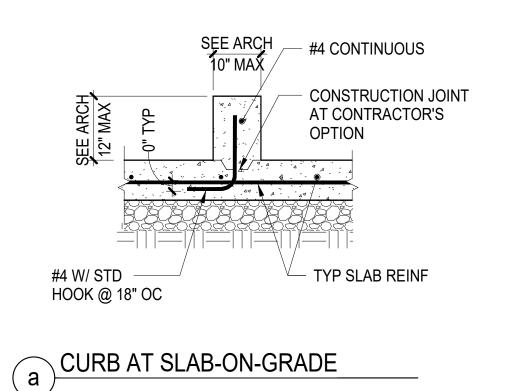
c 135° HOOK

REINFORCING	
NFORCING HOOKS	

MAXIMUN BEND IN MAIN

MAIN REINFORCING HOOKS				
BAR SIZE	BEND DIAMETER, D (IN)	90° HOOK L (IN)	180° HOOK L (IN)	
#3	2 1/4	4 1/2	2 1/2	
#4	3	6	2 1/2	
#5	3 3/4	7 1/2	2 1/2	
#6	4 1/2	9	3	

STIRRUP + TIE REINFORCING HOOKS				
BAR SIZE	BEND DIAMETER, D (IN)	90° HOOK L (IN)	180° HOOK L (IN)	
#3	1 1/2	3	3	
#4	2	3	3	
#5	2 1/2	3 3/4	3 3/4	



NOTES: 1. PRIOR TO DRILLING FOR HOLE, LOCATE (E) REINFORCING. DO NOT CUT (E) REINFORCING AND MAINTAIN 1 1/2" CLR AROUND HOLE.

MAXIMUM PIPE SIZE 6" DIA UNLESS OTHERWISE NOTED.

PROVIDE 1" MINIMUM GAP BETWEEN PIPE AND HOLE ALL AROUND PIPE.

4. LOCATE PIPE WITHIN MIDDLE 1/3 OF (E) FOOTING DEPTH.

MINIMUM CLEAR DISTANCE BETWEEN SLEEVES SHALL BE 4x LARGEST SLEEVE DIAMETER.

6. CAULK SEAL GAP AT SLEEVE-TO-PIPE/CONDUIT INTERFACE ON EXTERIOR SIDE OF FOOTING.

NTS 6 PIPE PENETRATION THRU (E) FOOTING 9 CONCRETE CURB DETAIL

1" = 1'-0"

TYPICAL BAR HOOKS

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BE

HONE

DRIVE 94928 **PARK** ROHNERT



NTS

VANESSA GARRETT P.E. CE84141 **CITY ENGINEER**

REVISION SCHEDULE				
NO	DATE	BY	DESCRIPTION	
1	11/03/2022		AGENCY PLAN REVIEW	
2	12/02/2022		AGENCY PLAN REVIEW	

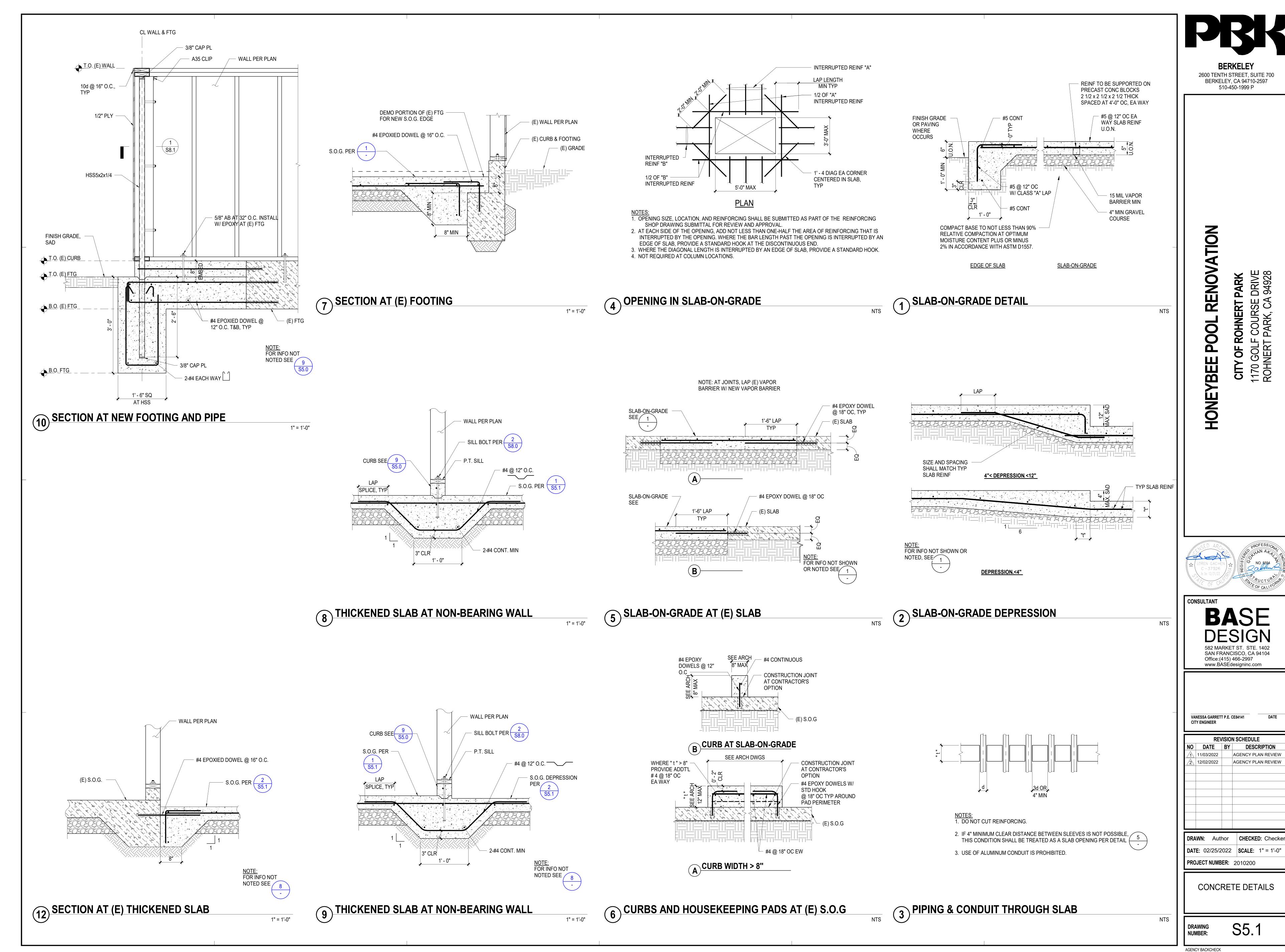
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TYPICAL CONCRETE **DETAILS**

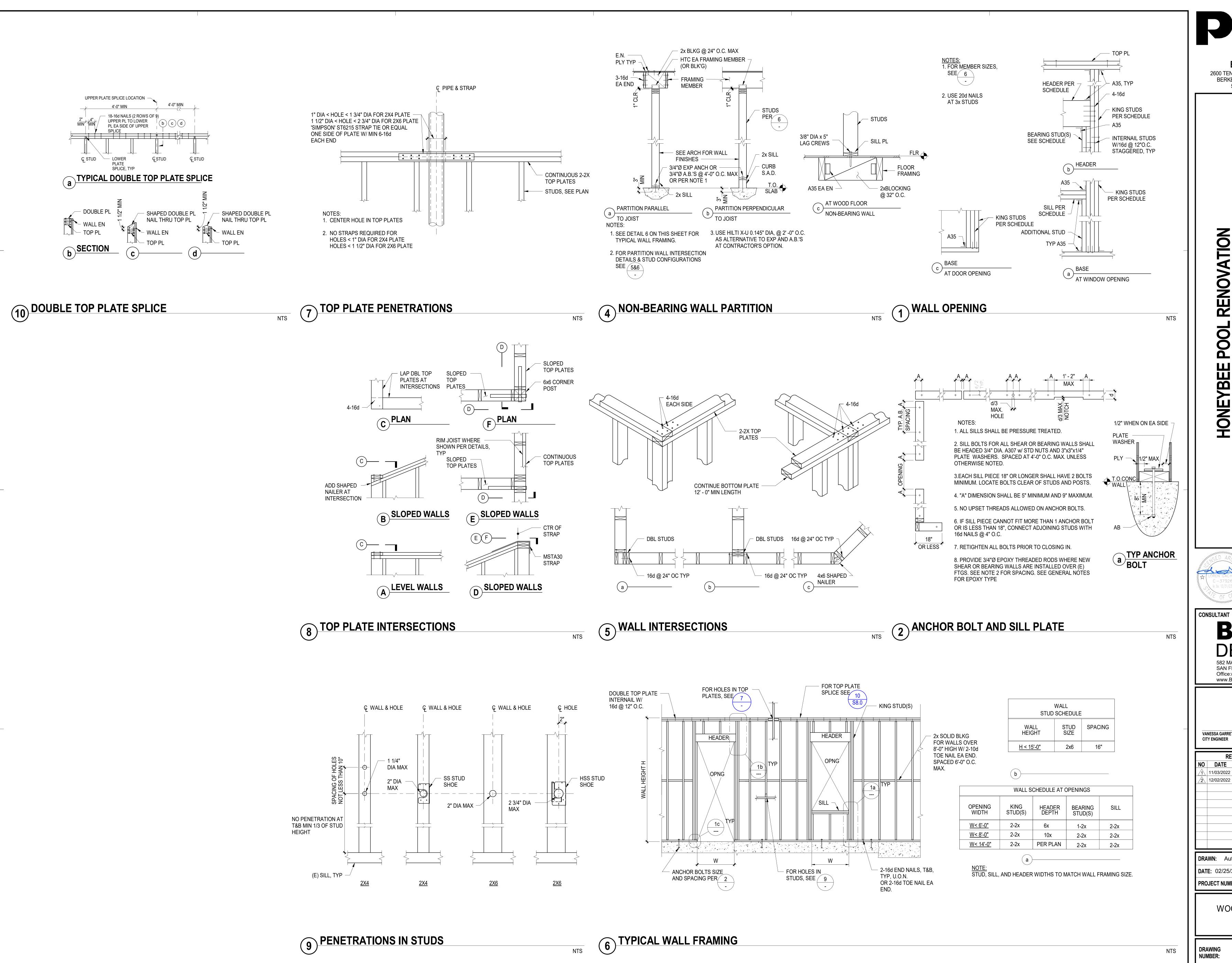
AGENCY BACKCHECK

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NUMBER:



AGENCY PLAN REVIEW AGENCY PLAN REVIEW



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BERKELEY, CA 94710-2597 510-450-1999 P

RENOVATION POOL

FROHNERT PARK LF COURSE DRIVE RT PARK, CA 94928 1170 GOLF ROHNERT P

CONSULTANT **DESIGN** SAN FRANCISCO, CA 94104 Office:(415) 466-2997 www.BASEdesigninc.com

DATE VANESSA GARRETT P.E. CE84141

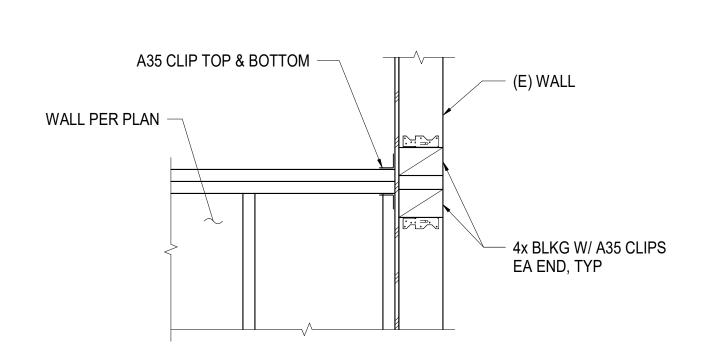
REVISION SCHEDULE DESCRIPTION AGENCY PLAN REVIEW 11/03/2022 AGENCY PLAN REVIEW 12/02/2022

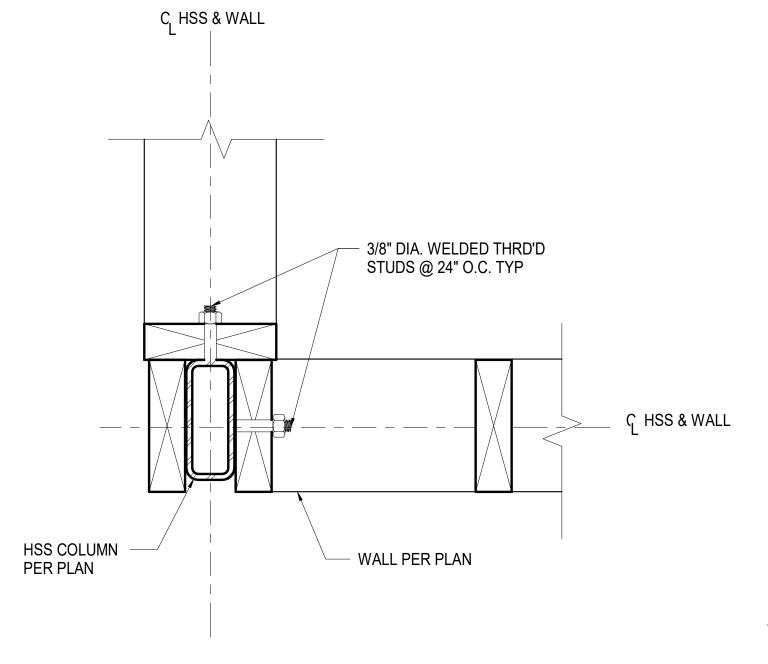
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> WOOD FRAMING **DETAILS**

S8.0

AGENCY BACKCHECK





DOUBLE TOP PLATE CONNECTION TO (E) WALL

1" = 1'-0"

3" = 1'-0"

CONNECTION	NAILING ^{a,m}
Joist to sill or girder, toenail	3-8d
2. Bridging to joists, toenail each end	2-8d
3. 1" x 6" subfloor or less to each joist, face nail	2-8d
4. Wider than 1" x 6" subfloor to each joist, face nail	3-8d
5. 2" subfloor to joist or girder, blind and face nail	2-16d
Sole plate to joist or blocking, typical face nail Sole plate to joist or blocking, at braced wall pannels	16d at 16" o.c. 3-16d per 16"
7. Top plate to stud, end nail	2-16d
8. Stud to sole plate	4-8d, toenail or 2-16d, end nailþ(s)
9. Double studs, face nail	16d at 24"o.c.
10. Double top plates, typical face nail	16d at 16" o.c.

Sole plate to joist or blocking, typical face nail Sole plate to joist or blocking, at braced wall pannels	16d at 16" o.c. 3-16d per 16"
7. Top plate to stud, end nail	2-16d
8. Stud to sole plate	4-8d, toenail or 2-16d, end nailþ(s)
9. Double studs, face nail	16d at 24"o.c.
10. Double top plates, typical face nail	16d at 16" o.c.
11. Blocking between joists or rafters to top plate, toenail	3-8d
12. Rim joist to top plate, toenail	8d at 6" o.c.
13. Top plates, laps and intersections, face nail	2-16d
14. Continuous header, two pieces	16d at 16" o.c. along each side
15. Ceiling joists to plate, toenail	3-8d
16. Continuous header to stud, toenail	4-8d
17. Ceiling joist, laps over partitions, face nail	3-16d ^q
18. Ceiling joists to parallel rafters, face nail	3-16d ^q
19. Joist or rafters at all bearings-toenails, each side	3-8d ^r
20. 1" brace to each stud and plate, face nail	2-8d
21. 1" x 8" sheathing or less to each bearing, face nail	3-8d
	

15. Ceiling joists to plate, toenail	3-8d
16. Continuous header to stud, toenail	4-8d
17. Ceiling joist, laps over partitions, face nail	3-16d ^q
18. Ceiling joists to parallel rafters, face nail	3-16d ^q
19. Joist or rafters at all bearings-toenails, each side	3-8d ^r
20. 1" brace to each stud and plate, face nail	2-8d
21. 1" x 8" sheathing or less to each bearing, face nail	3-8d
22. Wider than 1" x 8" sheathing to each bearing, face nail	3-8d
23. Built-up corner studs	16d at 24" o.c.
24. Built-up girder and beams ⁵	20d at 32" o.c. face nail at top & bottom & staggered 2-20d face nail at ends & at each splice
25. 2" planks	16d at each bearing
26. Collar tie to rafter, face nail	3-10d
27. Jack rafter to hip, toenail	3-10d
Jack rafter to hip, toenail	2-16d
28. Roof rafter to 2-by ridge beam, toenail	2-16d
Roof rafter to 2-by ridge beam, face nail	2-16d
29. Joist to band joist, face nail	3-16d
30. Ledger strip, face nail	3-16d
31. Wood structural panels and particleboard Subfloor, roof and wall sheathing (to framing): 1/2" and less 19/32" - 3/4" 7/8" - 1" 1 1/8" - 1 1/4" Combination subfloor-underlayment (to framing): 3/4" and less 7/8" - 1" 1 1/8" - 1 1/4"	6d ^c 8d ^d or 6c ^e 8d ^e 10d ^d or 8c ^d 6d ^e 8d ^e 10d ^d or 8d ^e
32. Panel siding (to framing): 1/2" or less 5/8"	6d ^f 8d ^f
33. Fiberboard Sheathing 1/2"	No. 11 ge ^ḥ 6d ^d No. 16 ge ^ị .
25/32"	No. 11 ge ^h 8d ^d No. 16 ge ⁱ .

4d^j 6d^k

a. USE COMMON WIRE NAILS EXCEPT WHERE OTHERWISE STATED.

b. NAILS SPACED AT 6 INCHES ON CENTER AT EDGES. 12 INCHES AT INTERMDIATE SUPPORTS EXCEPT 6 INCHES AT ALL SUPPORTS WHERE SPANS ARE 48 INCHES OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTIONS 2305. NAILS FOR WALL SHEATHING MAY BE COMMON, BOX OR CASING.

c. COMMON OR DEFORMED SHANK. (6d-2", 8d-2 1/2", 10d-3")

d. COMMON. (6d-2", 8d-2 1/2", 10d-3")

e. DEFORMED SHANK. (6d-2", 8d-2 1/2", 10d-3")

f. CORROSION-RESISTANT SIDING OR CASING NAILS CONFORMING TO THE REQUIREMENTS OF SECTION 2304.9.5.

g. FASTENERS SPACED 3 INCHES ON CENTER AT EXTERIOR EDGES AND 6 INCHES ON CENTER AT INTERMEDIATE SUPPORTS, WHEN USED AS STRUCTURAL SHEATHING SPACING SHALL BE 6 INCHES ON CENTER ON THE EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS FOR NON STRUCTURAL APPLICATIONS.

h. CORROSION-RESISTANT ROOFING NAILS WITH 7/16" INCH-DIAMETER HEAD AND 1 1/2"-INCH LENGTH FOR 1/2"-INCH SHEATHING AND 1 3/4"-INCH LENGTH FOR 25/32-INCH SHEATHING CONFORMING TO THE REQUIREMENTS OF SECTION 2304.9.5. i. CORROSION-RESISTANT STAPLES WITH NOMINAL 7/16-INCH CROWN AND 1 1/8-INCH LENGTH FOR 1/2-INCH SHEATHING AND 1 1/2-INCH LENGTH FOR 25/32-INCH SHEATHING CONFORMING TO THE REQUIREMENTS OF SECTION 2304.9.5.

j. CASING OR FINISH NAILS SPACED 6-INCHES ON PANEL EDGES, 12 INCHES AT

INTERMEDIATE SUPPORTS.

k. PANEL SUPPORTS AT 24". CASING OR FINISH NAILS SPACED 6" ON PANEL EDGES, 12" AT INTERMEDIATE SUPPORTS.

I. FOR ROOF SHEATHING APPLICATIONS, 8D NAILS ARE THE MINIMUM REQUIRED FOR WOOD STRUCTURAL PANELS.

m. STAPLES SHALL HAVE A MINIMUM CROWN WIDTH OF 7/16 INCH.

n. FOR ROOF SHEATHING APPLICATIONS, FASTENERS SPACED 4 INCHES ON CENTER AT EDGES, 8 INCHES AT INTERMEDIATE SUPPORTS.

o. FASTENERS SPACED 4 INCHES ON CENTER AT EDGES, 8 INCHES AT INTERMEDIATE SUPPORTS FOR SUBFLOOR AND WALL SHEATHING AND 3 INCHES ON CENTER AT EDGES, 6 INCHES AT INTERMEDIATE SUPPORTS FOR ROOF SHEATHING.

p. FASTENERS SPACED 4 INCHES ON CENTER AT EDGES, 8 INCHES AT INTERMEDIATE SUPPORTS.

q. FOR ROOF SLOPES 3:12 OR GREATER IN WHICH CEILING JOISTS SERVE AS A TIE FOR ROOF RAFTERS, MINIMUM NAILING PER CBC TABLE 2308.10.4.1.

r. FOR ROOF SLOPES 3:12 OR GREATER IN WHICH CEILING JOISTS SERVE AS A TIE FOR ROOF RAFTERS, MINIMUM NAILING MUST BE ADEQUATE TO WITHSTAND MINIMUM WIND UPLIFT PER CBC TABLE 2308.10.1.

s. AT 3X SOLE, 2-20D END NAILS SHALL BE USED IN PLACE OF 2-16D END NAILS.

BERKELEY 2600 TENTH STREET, SUITE 700 BERKELEY, CA 94710-2597 510-450-1999 P

RENOVATION

HONE

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VANESSA GARRETT P.E. CE84141 CITY ENGINEER

	REVISION SCHEDULE					
NO	DATE	BY	DESCRIPTION			
1	11/03/2022		AGENCY PLAN REVIEW			
<u>^2</u>	12/02/2022		AGENCY PLAN REVIEW			

DRAWN: Author CHECKED: Checker DATE: 02/25/2022 SCALE: As indicated

PROJECT NUMBER: 2010200

FRAMING DETAILS

S8.1 DRAWING NUMBER:

AGENCY BACKCHECK

ELEVATION AT BABY CHANGING STATION 1" = 1'-0"

- WALL PER PLAN

- 4x SHAPED HDR

NOTCH STUD FOR

- 4x SHAPED SILL

BEARING STUD, TYP

RECESS, TYP

- A34, TYP AT STUD

KING STUD

A35 T&B, TYP -

<u>T.O.</u> (E) <u>C</u>URB

<u>T.O. FTG</u>

S8.0

BABY CHANGING STATION, SAD

— PLY

NOTCH STUDS

NOTE: FOR INFO NOT NOTED SEE 6 \$8.0

AT RECESS

—1 1/2" MIN

NOTCH STUDS

SILL -

AT RECESS

A34, TYP AT

(6) NAILING SCHEDULE

34. Interior paneling 1/4" 3/8"

NTS

CALIFORNIA ENERGY CONSERVATION STANDARDS 2016 CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE INCLUDING APPLICABLE MANDATORY

a. COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION PER CALGREEN REQUIREMENTS.

b. ADHESIVES, SEALANTS AND CAULKS SHALL MEET CALGREEN REQUIREMENTS.

c. FILTERS SHALL BE A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 8 OR AS SPECIFIED.

d. INSTALLATIONS OF HVAC AND REFRIGERATION EQUIPMENT SHALL COMPLY WITH SECTIONS 5.508.1.1

ENTIRE INSTALLATION SHALL CONFORM TO REQUIREMENTS OF 2016 CALIFORNIA MECHANICAL CODE, 2016 CALIFORNIA BUILDING CODE. AND ALL OTHER APPLICABLE CODES AND REGULATIONS, INCLUDING 2016 CALIFORNIA ENERGY CONSERVATION STANDARDS DIVISION T-20.

AND 5.508.1.2.

. COORDINATE ENTIRE INSTALLATION OF HVAC SYSTEM WITH WORK OF ALL OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION, PROVIDE ALL FITTINGS. OFFSETS, AND TRANSITIONS AS REQUIRED FOR A COMPLETE WORKABLE INSTALLATION. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ITEMS TO BE PROVIDED BY OTHER TRADES WHERE MENTIONED IN THE CONTRACT DOCUMENTS PRIOR TO BID NO EXCEPTIONS.

COORDINATE LOCATIONS OF ALL CEILING DIFFUSERS, REGISTERS, AND GRILLES WITH ARCHITECTURAL REFLECTIVE CEILING PLAN, ELECTRICAL LIGHTING LAYOUT AND ARCHITECTURAL ROOM ELEVATIONS. ARCHITECT AND ENGINEER SHALL BE IMMEDIATELY NOTIFIED OF ANY CONFLICTS PRIOR TO FABRICATION AND INSTALLATION.

6. CONTRACTOR SHALL NOTIFY OWNER AND ENGINEER OF CONSTRUCTION PHASING PRIOR TO START OF CONSTRUCTION, REMOVAL, AND/OR REPLACEMENT OF ANY EQUIPMENT. CONTRACTOR SHALL RECEIVE PERMISSION IN WRITING PRIOR TO START OF ANY WORK DURING ANY PHASE FOR WORK SHOWN HEREIN. IT SHALL BE THE RESPONSIBILITY OF CONTRACTOR TO CONDUCT WORK AND ARRANGE HIS WORK IN A MANNER THAT WILL CAUSE MINIMAL INTERFERENCE WITH DAILY FUNCTIONS WITHIN FACILITY. ANY EXPECTED DOWNTIME SHALL BE COORDINATED WITH THE OWNER.

ALL EQUIPMENT, DUCTS, PIPING, AND OTHER DEVICES AND MATERIALS INSTALLED OUTSIDE OF BUILDING OR OTHERWISE EXPOSED TO WEATHER SHALL BE COMPLETELY WEATHER-PROOFED AND PAINTED TO MATCH, COORDINATE WITH ARCHITECT PRIOR TO PAINTING.

NOT USED.

THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH AND BE CONSIDERED TO BE PART OF A SEPARATE AND COMPLETE MECHANICAL SPECIFICATION.

D. ALL DIMENSIONS SHOWN ON THESE PLANS ARE APPROXIMATE AND MUST BE CONFIRMED ON SITE.

11. PRIOR TO OCCUPANCY, THE ENTIRE H.V.A.C. SYSTEMS SHALL BE BALANCED IN ACCORDANCE WITH ASSOCIATED AIR BALANCE COUNCIL (AABC) STANDARDS BY AN INDEPENDENT AIR BALANCE CONTRACTOR. CERTIFICATION SHALL BE PROVIDED BY CONTRACTOR FOR AIR AND HYDRONIC AS APPLICABLE. SYSTEMS SHALL BE BALANCED AS INDICATED ON PLANS INCLUDING FRESH AIR VENTILATION. WHERE THERE IS A CONFLICT WITH MECHANICAL PLANS, AIR BALANCE CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO BALANCING OF SYSTEM. IF NOT, AIR BALANCE CONTRACTOR SHALL BEAR ALL COSTS INCURRED FOR WORK THAT MUST BE RE-BALANCED DUE TO CONFLICTS ON CONTRACT DOCUMENTS. CONTRACTOR SHALL PROVIDE THREE COPIES OF AIR BALANCE REPORT TO ENGINEER FOR APPROVAL

12. FOR INACCESSIBLE AREAS CONTRACTOR SHALL PROVIDE ACCESS PANELS FOR ALL DAMPERS, EQUIPMENT, SMOKE DETECTORS, AND CONTROL DEVICES. THESE PANELS SHALL MATCH THE RATING OF THE WALL AND/OR CEILING THAT THEY ARE LOCATED IN. MINIMUM ACCESS PANEL SIZES SHALL BE AS FOLLOWS:

a. HAND ACCESS: 12"x12"

b. BODY ACCESS: 30"x30" MIN. WHERE A LARGER ACCESS SIZE IS REQUIRED DUE TO INSTALLATION CONSTRAINTS, THE CONTRACTOR SHALL DO SO AT NO ADDITIONAL COST AND SHALL NOTIFY THE ARCHITECT AND ENGINEER OF DEVIATIONS PRIOR TO INSTALLATION.

13. ALL EQUIPMENT, ACCESSORIES, AND RELATED PIPING SHALL BE INSTALLED IN STRICT ACCORDANCE WITH EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL FITTINGS, TRANSITIONS, DAMPERS, VALVES, AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.

14. MAINTENANCE LABEL SHALL BE AFFIXED TO ALL MECHANICAL EQUIPMENT AND A MAINTENANCE MANUAL SHALL BE PROVIDED FOR THE OWNER'S USE.

5. PROVIDE 30% MIN. EFFICIENCY THROWAWAY FILTERS FOR ALL AIR CONDITIONING UNITS. SEE EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR TYPE. SIZES SHALL BE AS RECOMMENDED BY THE MANUFACTURER, UNLESS

OTHERWISE SPECIFIED.

16. ALL EQUIPMENT WITH MOVING PARTS SHALL BE PROVIDED WITH FLEXIBLE DUCT AND PIPE CONNECTIONS.

7. ALL EQUIPMENT SHALL BE LABELED AS TO SPACE IT SERVES. SEE PLANS AND SPECIFICATIONS FOR IDENTIFICATION STANDARDS.

18. ALL HVAC EQUIPMENT SHALL BE CERTIFIED BY CALIFORNIA ENERGY COMMISSION (CEC) TO COMPLY WITH LATEST EFFICIENCY STANDARDS.

19. ALL FRESH AIR INTAKES SHALL MEET CODE REQUIRED CLEARANCES FROM EXHAUST, FLUE, FUEL BURNING APPLIANCE, AND PLUMBING VENT OUTLETS. FOR GAS/ELECTRIC AIR CONDITIONING UNITS WHERE CODE REQUIRED CLEARANCES ARE NOT MET, A FACTORY FLUE GAS DEFLECTOR AND EXTENSION SHALL BE USED TO MINIMIZE THESE CLEARANCES. CONTRACTOR SHALL DETERMINE LOCATIONS WHERE REQUIRED PRIOR TO BID. THIS SHALL BE PROVIDED AT NO ADDITIONAL COST.

20. ALL AIR HANDLING EQUIPMENT SERVING CONDITIONED SPACES SHALL PROVIDE CONTINUOUS FRESH AIR TO SPACES IN OCCUPIED MODE.

21. CONTRACTOR SHALL VERIFY ALL CLEARANCES AND AVAILABLE SPACE FOR DUCTWORK PRIOR TO ORDERING AND/OR FABRICATING MATERIAL.

22. CONTRACTOR TO SUBMIT ALL EQUIPMENT, DUCTWORK, AIR DISTRIBUTION DEVICES, AND OTHER ACCESSORIES TO ENGINEER FOR APPROVAL PRIOR TO ANY ORDERING OF SUCH ITEMS.

23. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS WITHIN 45 DAYS OF AWARD OF CONTRACT. IF SHOP DRAWINGS ARE NOT PROVIDED TO ENGINEER FOR APPROVAL, AND ANY CONFLICTS OCCUR BETWEEN TRADES, DURING CONSTRUCTION, & ETC. THEN CONTRACTOR SHALL BE RESPONSIBLE AND BEAR ALL COST INCURRED FOR ANY REVISIONS AT NO ADDITIONAL COST TO THE OWNER. THE OWNER AND ENGINEER SHALL BE NOTIFIED IMMEDIATELY PRIOR TO FABRICATION AND INSTALLATION OF ANY CONFLICTS BETWEEN TRADES, DURING CONSTRUCTION, &

24. CONTRACTOR SHALL BE RESPONSIBLE FOR COMMISSIONING OF EQUIPMENT AS STIPULATED ON MECH-1-C FORM ON PLANS UNLESS NOTED OTHERWISE.

25. PAINT EXPOSED SURFACES, WHETHER OR NOT COLORS ARE DESIGNATED IN SCHEDULES, EXCEPT WHERE A SURFACE OR MATERIAL IS SPECIFICALLY INDICATED NOT TO BE PAINTED OR IS TO REMAIN NATURAL. WHERE AN ITEM OR SURFACE IS NOT SPECIFICALLY MENTIONED, PAINT THE SAME AS SIMILAR ADJACENT MATERIALS OR SURFACES. IF COLOR OR FINISH IS NOT DESIGNATED, THE OWNER'S REPRESENTATIVE WILL SELECT FROM STANDARD COLORS OR FINISHES AVAILABLE.

a. PAINTING INCLUDES FIELD PAINTING EXPOSED BARE AND COVERED PIPES AND DUCTS (INCLUDING COLOR CODING), HANGERS, EXPOSED STEEL AND IRON WORK AND PRIMED METAL SURFACES OF MECHANICAL AND ELECTRICAL EQUIPMENT.

---- CONTROLS -----

26. CONTROL SCHEMATICS ARE FOR SEQUENCE ONLY. REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ALL ELECTRICAL DEVICES REQUIRED.

27. ALL LINE VOLTAGE WIRING SHALL BE INSTALLED IN CONDUIT. ALL LINE VOLTAGE CONDUIT AND WIRING, INCLUDING FINAL CONNECTIONS, SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR AS INDICATED ON THE ELECTRICAL DRAWINGS OR SPECIFIED IN THE ELECTRICAL SECTION OF THE SPECIFICATIONS. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS OF ALL GOVERNING BODIES HAVING JURISDICTION THEREOF.

28. ALL LOW VOLTAGE CONDUIT AND WIRING AS APPLICABLE, INCLUDING FINAL CONNECTIONS, SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR AS INDICATED ON THE MECHANICAL DRAWINGS OR SPECIFIED IN THE MECHANICAL SECTION OF THE SPECIFICATIONS.

a. ALL LOW VOLTAGE WIRING SHALL BE INSTALLED IN

b. ALL LOW VOLTAGE WIRING SHALL BE PLENUM - RATED. c. WHERE THE CONTROLS CONTRACTOR IS RETAINED BY THE OWNER, THEY SHALL BE RESPONSIBLE FOR THE FOLLOWING:

• FURNISH AND INSTALL ALL DEVICES, WIRING, AND TERMINATIONS REQUIRED FOR A COMPLETE AND FUNCTIONAL INSTALLATION.

 COORDINATE ALL WORK AND REQUIREMENTS WITH OTHER TRADES INCLUDING GENERAL, MECHANICAL, AND ELECTRICAL CONTRACTORS PRIOR TO BID.

• CONTRACTOR SHALL FOLLOW ALL SUBMITTAL REQUIREMENTS PER DRAWINGS AND SPECIFICATIONS.

29. CONTRACTOR SHALL BE RESPONSIBLE FOR ORDERING AIR CONDITIONING EQUIPMENT WITH THRU-THE-BASE POWER, CONTROL, AND GAS CONNECTIONS. VERIFY ALL CONNECTION LOCATIONS WITH UNIT MANUFACTURER AND COORDINATE WITH OTHER TRADES AS NECESSARY.

30. ALL THERMOSTATS SHALL HAVE LOCKABLE COVERS (WHERE INDICATED ON PLANS) AND SHALL BE OF THE ELECTRONIC, PROGRAMMABLE, AUTOMATIC CHANGEOVER TYPE TO SEQUENCE HEATING OR COOLING. SET POINT RANGE SHALL BE 10° F. BETWEEN FULL HEATING AND COOLING. THEY SHALL HAVE CAPABILITY OF TERMINATING ALL HEATING AT A TEMPERATURE NO MORE THAN 70° F., AND COOLING AT A TEMPERATURE NOT LESS THAN 78° F. ADJUSTABLE TEMPERATURE DIFFERENTIAL SHALL BE 11/2° F. CONTROL LIMITS SHALL BE FROM 55° F. TO 85° F. MOUNT AT 48" ABOVE FLOOR OR AS REQUIRED BY LOCAL AUTHORITIES OR HANDICAP CODES.

a. THERMOSTATS THAT ARE PART OF AN ENERGY MANAGEMENT SYSTEM SHALL FOLLOW CONTROL SPECIFICATIONS AND DRAWING REQUIREMENTS.

b. SHOULD THE LOCATION OF THE THERMOSTAT NOT MEETS ADA HEIGHT REQUIREMENTS DUE TO OBSTRUCTIONS, THEN AN ALTERNATE LOCATION SHALL BE PROPOSED OR REQUESTED BY CONTRACTOR THAT SHALL BE APPROVED BY ENGINEER AND ARCHITECT.

31. LINE VOLTAGE THERMOSTATS SHALL BE FURNISHED BY MECHANICAL CONTRACTOR AND INSTALLED BY

32. CONTROLS CONTRACTOR AND AIR BALANCE CONTRACTOR SHALL COORDINATE WORK AND PERFORM NECESSARY TASKS AS REQUIRED TO OBTAIN AIR AND WATER FLOW QUANTITIES FOR SYSTEMS SHOWN HEREIN.

33. CONTROLS SHALL BE PROVIDED TO PROVIDE THE MINIMUM RATE OF OUTDOOR AIR REQUIRED BY THE STATE ENERGY REGULATIONS.

---- AIR DISTRIBUTION -----

ELECTRICAL CONTRACTOR.

MECHANICAL GENERAL NOTES

34. ALL DUCTWORK SHALL BE SHEET METAL CONSTRUCTED OR SPIRAL, ERECTED, AND TESTED IN ACCORDANCE WITH THE MOST RESTRICTIVE OF LOCAL REGULATIONS. PROCEDURES DETAILED IN THE ASHRAE HANDBOOK OF FUNDAMENTALS, CHAPTER 6 OF THE MECHANICAL CODE, OR THE APPLICABLE STANDARDS ADOPTED BY THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL

35. ALL FLEXIBLE DUCTWORK SHALL NOT EXCEED 5'-0" IN LENGTH TO RESPECTIVE DIFFUSERS, GRILLES, AND REGISTERS, OR OTHER AIR DEVICES.

36. PROVIDE SEISMIC RESTRAINTS TO ALL DUCTWORK, PIPE AND EQUIPMENT SUPPORTS IN ACCORDANCE WITH THE LATEST SMACNA GUIDELINES FOR SEISMIC RESTRAINT OF MECHANICAL SYSTEMS. SUSPENDED EQUIPMENT SHALL BE PROVIDED WITH SEISMIC ANCHORAGE AND ISOLATION SUPPORTS.

37. ALL DUCT TURNS IN SUPPLY, RETURN, AND EXHAUST DUCTS SHALL HAVE TURNING VANES UNLESS OTHERWISE

38. DUCTWORK HANDLING CONDITIONED AIR SHALL BE INSULATED OR LINED AS INDICATED ON DRAWINGS. SUPPLY AND RETURN DUCT INSULATION SHALL BE MIN. 2' THICK, 3/4" LB./CUBIC FT. DENSITY AND HAVE A MIN. VALUE OF R-8 WHERE LOCATED IN ONE OR MORE OF THE FOLLOWING SPACES:

a. OUTDOORS, OR

NOTED.

b. IN A SPACE BETWEEN THE ROOF AND AN INSULATED

c. IN A SPACE DIRECTLY UNDER A ROOF WITH FIXED VENTS OR OPENINGS TO THE OUTSIDE OR UNCONDITIONED SPACES, OR

d. IN AN UNCONDITIONED CRAWLSPACE; OR

e. IN OTHER UNCONDITIONED SPACES

OTHERWISE PROVIDE R-8 WHEN LOCATED IN CONDITIONED ATTIC SPACES ABOVE CEILINGS . ALL DUCTWORK EXPOSED ON ROOF SHALL BE INTERNALLY LINED WITH 2" THICK, 1½ LB./CUBIC FT. DENSITY DUCT LINER UNLESS OTHERWISE INDICATED OR SPECIFIED. ALL DUCT SIZES ARE SHEET METAL SIZES. ALL DUCT JOINTS SHALL BE SEALED PER CHAPTER 6 MECHANICAL CODE REQUIREMENTS. PROVIDE PIPING AND DUCT INSULATION IN ACCORDANCE WITH THE LATEST STANDARDS OF THE CALIFORNIA ENERGY COMMISSION.

39. ALL INSULATION SHALL HAVE A FLAME SPREAD OF NOT MORE THAN 25 AND A SMOKE DENSITY NOT EXCEEDING 50.

40. MANUAL VOLUME DAMPER SHALL BE PROVIDED IN ALL DUCT BRANCHES TO INDIVIDUAL DIFFUSERS, GRILLES, AND REGISTERS, AS WELL AS FRESH AIR INTAKE DUCTS. DAMPERS SHALL BE LOCATED AT THE BRANCH DUCT LOCATIONS. MECHANICAL CONTRACTOR SHALL COORDINATE LOCATIONS OF DAMPERS WITH AIR BALANCE CONTRACTOR PRIOR TO BID, SO THEY ARE ACCESSIBLE PRIOR TO BID, SO THEY ARE ACCESSIBLE PRIOR TO INSTALLATION. IN LOCATIONS WHERE THESE DAMPERS ARE INACCESSIBLE, CABLE OPERATED ADJUSTMENT CONTROLS SHALL BE PROVIDED AT NO ADDITIONAL COST. OPPOSED BLADE DAMPERS SHALL NOT BE PERMITTED UNLESS NOTED OTHERWISE.

41. ALL DUCTWORK, PIPING, CONDUIT, & ETC. PENETRATING FIRE RATED CONSTRUCTION SHALL HAVE APPROVED FIRE STOPPING.

---- EXISTING CONDITIONS ----

42. BEFORE BIDDING ON THIS WORK, THE CONTRACTOR SHALL MAKE A CAREFUL EXAMINATION OF THE PREMISES, EXISTING EQUIPMENT AND SERVICES. HE SHALL DEFINITELY DETERMINE IN ADVANCE, THE METHODS OF INSTALLING AND CONNECTING THE NEW EQUIPMENT, DUCTWORK, AND PIPING THE MEANS TO BE PROVIDED FOR GETTING THE EQUIPMENT AND MATERIALS INTO PLACE AND SHALL MAKE HIMSELF THOROUGHLY FAMILIAR WITH ALL OF THE REQUIREMENTS OF THE PROJECT. FAILURE TO VISIT THE SITE WILL IN NO WAY RELIEVE THE SUCCESSFUL CONTRACTOR OF THE NECESSITY OF FURNISHING ANY MATERIAL OR PERFORMING ANY WORK THAT MAY BE REQUIRED TO COMPLETE THE WORK IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. THIS ADDITIONAL SHALL BE PERFORMED WITHOUT ADDITIONAL COST TO THE OWNER.

43. CONTRACTOR SHALL VERIFY PRIOR TO CONSTRUCTION THE CONDITION OF EXISTING EQUIPMENT, DUCTWORK, ASSOCIATED CONTROLS, AND T-STATS. SHOULD ANY OF THESE ITEMS NOT BE PERFORMING SATISFACTORILY OR MALFUNCTIONING, CONTRACTOR SHALL NOTIFY TENANT AND/OR OWNER AND PROVIDE A COST TO ENSURE PROPER OPERATION PRIOR TO COMPLETION OF WORK.

44. BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS AND DIMENSIONS OF ALL EXISTING EQUIPMENT AND ELECTRICAL SERVICES IN THE AREA OF CONSTRUCTION AND NOTIFY THE ENGINEER AND ARCHITECT OF ANY DISCREPANCIES.

45. ALL CONNECTIONS AND DISCONNECTIONS TO EXISTING EQUIPMENT SHALL BE MADE IN SUCH A MANNER THAT INTERRUPTION TIME SHALL BE KEPT TO A MINIMUM. THE CONTRACTOR SHALL GIVE THE OWNER'S REPRESENTATIVE SUFFICIENT NOTICE OF SUCH INTERRUPTION AND THE ACTUAL SHUTDOWN TIME SHALL BE AT A TIME DESIGNATED BY THE OWNER'S REPRESENTATIVE.

> EXHAUST AIR RISER (E) SAG **EXISTING SUPPLY AIR GRILLE** (E) RAG **EXISTING RETURN AIR GRILLE** (E) EAG EXISTING EXHAUST AIR GRILLE (N) SAG NEW SUPPLY AIR GRILLE (N) RAG **NEW RETURN AIR GRILLE** (N) EAG NEW EXHAUST AIR GRILLE - \ - SWR SIDEWALL REGISTER LINED DUCTWORK **-£**((()))-FLEXIBLE CONNECTION FLEXIBLE CONNECTION NEW DUCT (SEE PLAN) ---EXISTING DUCT (SEE PLAN) 4//// DEMO DUCT (SEE PLAN) MANUAL VOLUME DAMPER 2005 (R2010) UL - 300 FOR CLASS I HOOD FIRE SUPPRESSION SYSTEM. 2015 NFPA 2001 CLEAN AGENT FIRE EXTINGUISHING SYSTEMS. BACKDRAFT DAMPER ____ BDD TITLE 19 CCR STATE FIRE MARSHAL REGULATIONS. SFD---SFD SMOKE / FIRE DAMPER FD---FD FIRE DAMPER DOOR LOUVER UC 3/4" UNDERCUT DOOR <u>U.C.</u> REFRIGERANT SUCTION LINE —_RS—_ REFRIGERANT LIQUID LINE —___RL____ UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. CD <u>—</u>СD— CONDENSATE DRAIN S.D. SMOKE DETECTOR P.O.C. POINT OF CONNECTION T T-STAT **THERMOSTAT HUMIDISTAT** TEMPERATURE SENSOR os OVERRIDE SWITCH PD PRESSURE DIFFERENTIAL SWITCH O.C. ON CENTER HOT-WATER RETURN HWR HOT-WATER SUPPLY HWS INSIDE DIAMETER O.D. OUTSIDE DIAMETER W/ WITH SHEET METAL S/M S/S STAINLESS STEEL G.C. GENERAL CONTRACTOR VENT THRU ROOF VTR EMS ENERGY MANAGEMENT SYSTEM OPPOSED BLADE DAMPER FAN SPEED CONTROL FSC ITEMS FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR AS SPECIFIED ON THE ELECTRICAL CONTRACT DOCUMENTS ITEMS FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR AS SPECIFIED ON THE MECHANICAL CONTRACT DOCUMENTS ITEMS FURNISHED BY ELECTRICAL CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR. ITEMS FURNISHED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. C.C. CONTROLS CONTRACTOR COUNTER-BALANCE DAMPER CBD D.S. DOOR SWITCH EXHAUST FAN SCHEDULE

LEGEND

DESCRIPTION

SUPPLY AIR RISER

RETURN AIR RISER

ABBR.

SYMBOL

Sheet Number	Sheet Title					
M0.1 MECHANICAL GENERAL NOTES AND LEGEND						
M2.0	MECHANICAL FLOOR PLAN - DEMO & NEW					
M3.0	MECHANICAL ROOF PLAN					
M6.1	MECHANICAL DETAILS					
	•					
	PLICABLE CODES AND STANDARDS					
	LIOADEL OODEO AND OTANDANDO					
	A BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.					
	N BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. NONAL BUILDING CODE VOLUME 1-3 AND 2016 CALIFORNIA					
AMENDMENTS)	ON IL BOILDING GODE VOLUME TO THE ZOTO OTHER CHANK					
2016 CALIFORNÍA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.						
	ELECTRICAL CODE AND 2016 CALIFORNIA AMENDMENTS)					
2016 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, C.C.R. (2015 UNIFORM MECHANICAL CODE AND 2016 CALIFORNIA AMENDMENTS)						
	NECHANICAL CODE AND 2016 CALIFORNIA AMENDMENTS) A PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R,					
	PLUMBING CODE AND 2016 CALIFORNIA AMENDMENTS)					
2016 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.						
	IONAL FIRE CODE AND 2016 CALIFORNIA AMENDMENTS)					
	REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.					
TITLE 19 C.C.R. P	UBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS					
FOR A FULL SET	OF STANDARDS CURRENTLY ADOPTED BY THE STATE OF CALIFORNIA, SEE CBC CHAPTER 35					
AND CFC CHAPTE	ER 47. CURRENT REFERENCE STANDARDS APPLICABLE TO FIRE AND LIFE SAFETY, INCLUDED					
BUT ARE NOT LIM	MITED TO THE FOLLOWING:					
2013 NFPA 10 PO	RTABLE FIRE EXTINGUISHERS.					
	STALLATION OF SPRINKLER SYSTEMS + CALIFORNIA AMENDMENTS.					
2013 NFPA 14 INSTALLATION OF STANDPIPE, PRIVATE HYDRANT AND HOSE SYSTEMS.						
	TIONAL FIRE ALARM CODE - SEE CA AMENDMENTS.					
	STALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION.					
	TER TANKS FOR PRIVATE FIRE PROTECTION. STALLATION OF PRIVATE FIRE SERVICES MAINS + CALIFORNIA AMENDMENTS.					
	RE DOORS AND OTHER OPENING PROTECTIVES.					
	MERGENCY AND STANDBY POWER SYSTEMS.					
	ACHERS, FOLDING AND TELESCOPIC SEATING AND GRANDSTANDS (ICC 300-2012).					
	ET CHEMICAL EXTINGUISHING SYSTEMS.					
2005 (D2040) III	200 FOR CLASS LHOOD FIRE SUPPRESSION SYSTEM					

MECHANICAL SHEET LIST

SEISMIC NOTES

MEP COMPONENT ANCHORAGE NOTE: ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTION 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS. P. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRE) TO THE BUILDING

B. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS. THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY

ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THE PROJECT INSPECTOR WILL VERIFY THAT THESE ITEMS HAVE BEEN POSITIVELY ATTACHED. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT.

COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE MECHANICAL/ELECTRICAL ENGINEER.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE:

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7. 13.6.5.6 AND 2016 CBC, SECTIONS 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (EG., SMACNA OR OSHPD OPM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS MP___ MD___ PP___ E___ - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES

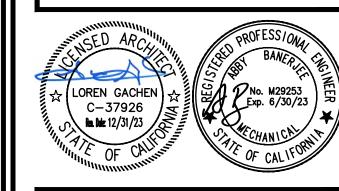
MP MD PP E - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM#)

MP $imes_{ extstyle exts$

(2009), INCLUDING ANY ADDENDA. FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAIN MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL C AND CONNECTION LEVEL III FOR THE PROJECT AND CONDITIONS.

COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.





ANESSA GARRETT P.E. CE84141

	REVISION SCHEDULE				
NO	DATE	BY	DESCRIPTION		
Λ	5/25/2022		AGENCY PLAN REVIEW		
<u>^</u>	12/02/2022		AGENCY PLAN REVIEW		

DRAWN:	CHECKED:						
DATE : 02/25/2022	SCALE:						
PROJECT NUMBER: 2010200							

MECHANICAL GENERAL NOTES AND LEGEND

100% CD SUBMITTAL

2600 TENTH STREET. SUITE 700

BERKELEY, CA 94710-2597

510-450-1999 P

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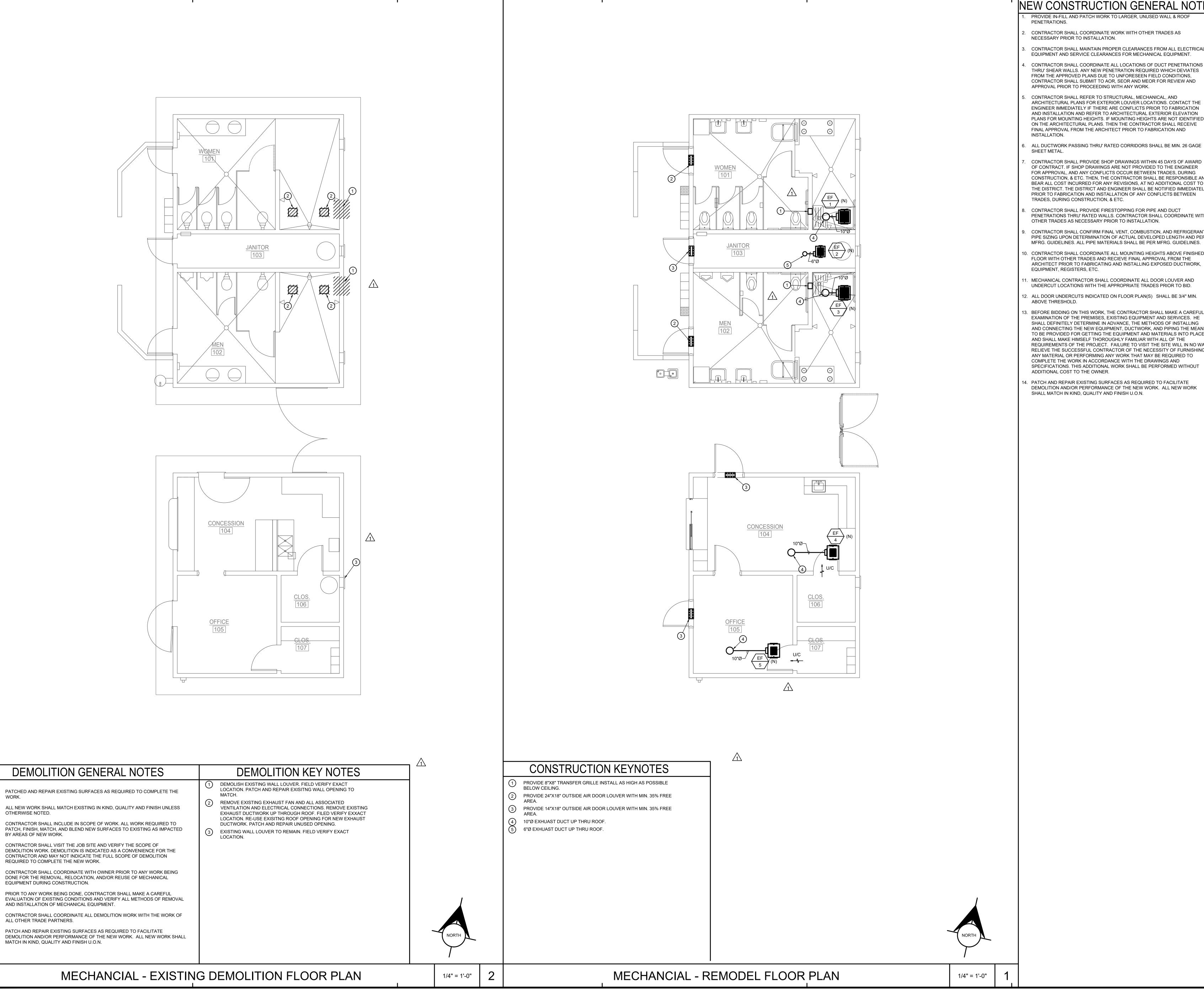
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	_		AN SCHLDULL											
	SYM	MFR & MODEL#	AREA SERVICED	CFM	ESP IN.WG.	FAN RPM	TIP SPEED FT/MIN	WATTS (W)	ELEC1 V	TRICAL PH	WT LBS	CONTROL DETAIL	REF. DETAIL	REMARKS
7	EF 1	GREENHECK SP-A710	WOMEN 101	430	0.35	925	-	285	115	1	34	2 M6.1	1 M6.1	1, 2, 3, 4
	EF 2	GREENHECK SP-B110	JANITOR 103	80	0.3	801	-	80	115	1	11	2 M6.1	1 M6.1	1, 2, 3, 4
	EF 3	GREENHECK SP-A710	MEN 102	430	0.35	925	-	285	115	1	34	2 M6.1	1 M6.1	1, 2, 3, 4
	EF 4	GREENHECK SP-A510	CONCESSION 104	275	0.35	899	-	224	115	1	33	2 M6.1	1 M6.1	1, 2, 3, 4
	EF 5	GREENHECK SP-A510	OFFICE 105	275	0.35	899	-	224	115	1	33	2 M6.1	1 M6.1	1, 2, 3, 4

HANGERS, SIZED FOR MINIMUM 1" STATIC DEFLECTION UNDER ACTUAL LOADS.

NOTE: CEILING MOUNTED EXHAUST FANS TO BE MOUNTED ON VIBRATION ISOLATION SPRING 2. ROOF CAP 3. INTERLOCK THE LIGHT SWITCH

4. FSC (MOUNT ON FAN FOR AIR BALANCE ONLY)



PROVIDE IN-FILL AND PATCH WORK TO LARGER, UNUSED WALL & ROOF

CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES AS

CONTRACTOR SHALL MAINTAIN PROPER CLEARANCES FROM ALL ELECTRICAL EQUIPMENT AND SERVICE CLEARANCES FOR MECHANICAL EQUIPMENT.

CONTRACTOR SHALL COORDINATE ALL LOCATIONS OF DUCT PENETRATIONS THRU' SHEAR WALLS. ANY NEW PENETRATION REQUIRED WHICH DEVIATES FROM THE APPROVED PLANS DUE TO UNFORESEEN FIELD CONDITIONS, CONTRACTOR SHALL SUBMIT TO AOR, SEOR AND MEOR FOR REVIEW AND

CONTRACTOR SHALL REFER TO STRUCTURAL, MECHANICAL, AND ARCHITECTURAL PLANS FOR EXTERIOR LOUVER LOCATIONS. CONTACT THE ENGINEER IMMEDIATELY IF THERE ARE CONFLICTS PRIOR TO FABRICATION AND INSTALLATION AND REFER TO ARCHITECTURAL EXTERIOR ELEVATION PLANS FOR MOUNTING HEIGHTS. IF MOUNTING HEIGHTS ARE NOT IDENTIFIED ON THE ARCHITECTURAL PLANS. THEN THE CONTRACTOR SHALL RECEIVE FINAL APPROVAL FROM THE ARCHITECT PRIOR TO FABRICATION AND

ALL DUCTWORK PASSING THRU' RATED CORRIDORS SHALL BE MIN. 26 GAGE

CONTRACTOR SHALL PROVIDE SHOP DRAWINGS WITHIN 45 DAYS OF AWARD OF CONTRACT. IF SHOP DRAWINGS ARE NOT PROVIDED TO THE ENGINEER FOR APPROVAL, AND ANY CONFLICTS OCCUR BETWEEN TRADES, DURING CONSTRUCTION, & ETC. THEN, THE CONTRACTOR SHALL BE RESPONSIBLE AND BEAR ALL COST INCURRED FOR ANY REVISIONS, AT NO ADDITIONAL COST TO THE DISTRICT. THE DISTRICT AND ENGINEER SHALL BE NOTIFIED IMMEDIATELY PRIOR TO FABRICATION AND INSTALLATION OF ANY CONFLICTS BETWEEN

CONTRACTOR SHALL PROVIDE FIRESTOPPING FOR PIPE AND DUCT PENETRATIONS THRU' RATED WALLS. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AS NECESSARY PRIOR TO INSTALLATION.

CONTRACTOR SHALL CONFIRM FINAL VENT, COMBUSTION, AND REFRIGERANT PIPE SIZING UPON DETERMINATION OF ACTUAL DEVELOPED LENGTH AND PER

CONTRACTOR SHALL COORDINATE ALL MOUNTING HEIGHTS ABOVE FINISHED FLOOR WITH OTHER TRADES AND RECIEVE FINAL APPROVAL FROM THE ARCHITECT PRIOR TO FABRICATING AND INSTALLING EXPOSED DUCTWORK, EQUIPMENT, REGISTERS, ETC.

MECHANICAL CONTRACTOR SHALL COORDINATE ALL DOOR LOUVER AND UNDERCUT LOCATIONS WITH THE APPROPRIATE TRADES PRIOR TO BID.

2. ALL DOOR UNDERCUTS INDICATED ON FLOOR PLAN(S) SHALL BE 3/4" MIN.

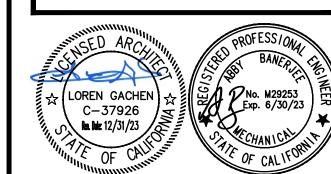
BEFORE BIDDING ON THIS WORK, THE CONTRACTOR SHALL MAKE A CAREFUL EXAMINATION OF THE PREMISES, EXISTING EQUIPMENT AND SERVICES. HE SHALL DEFINITELY DETERMINE IN ADVANCE, THE METHODS OF INSTALLING AND CONNECTING THE NEW EQUIPMENT, DUCTWORK, AND PIPING THE MEANS TO BE PROVIDED FOR GETTING THE EQUIPMENT AND MATERIALS INTO PLACE AND SHALL MAKE HIMSELF THOROUGHLY FAMILIAR WITH ALL OF THE REQUIREMENTS OF THE PROJECT. FAILURE TO VISIT THE SITE WILL IN NO WAY RELIEVE THE SUCCESSFUL CONTRACTOR OF THE NECESSITY OF FURNISHING ANY MATERIAL OR PERFORMING ANY WORK THAT MAY BE REQUIRED TO COMPLETE THE WORK IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. THIS ADDITIONAL WORK SHALL BE PERFORMED WITHOUT ADDITIONAL COST TO THE OWNER.

PATCH AND REPAIR EXISTING SURFACES AS REQUIRED TO FACILITATE DEMOLITION AND/OR PERFORMANCE OF THE NEW WORK. ALL NEW WORK SHALL MATCH IN KIND, QUALITY AND FINISH U.O.N.

2600 TENTH STREET, SUITE 700 BERKELEY, CA 94710-2597 510-450-1999 P

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ROHNERT CITY C 1170 G ROHNE





VANESSA GARRETT P.E. CE84141 CITY ENGINEER

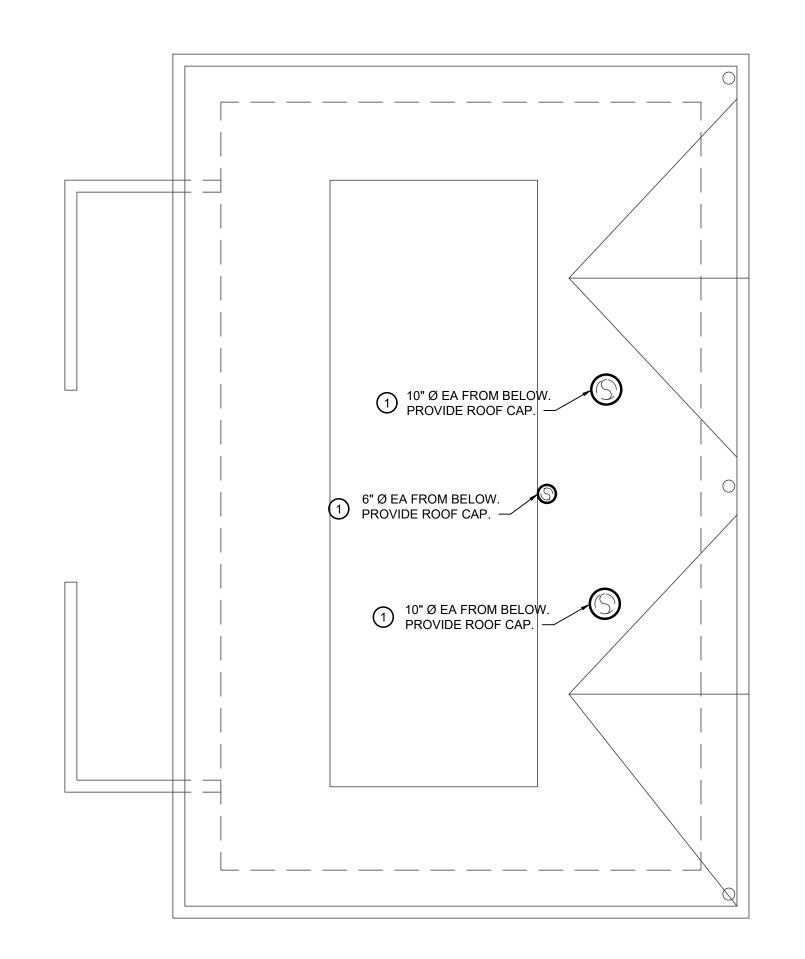
	RE\	/ISIOI	N SCHEDULE						
NO	DATE	BY	DESCRIPTION						
Λ	5/25/2022		AGENCY PLAN REVIEW						
<u>^</u>	12/02/2022		AGENCY PLAN REVIEW						

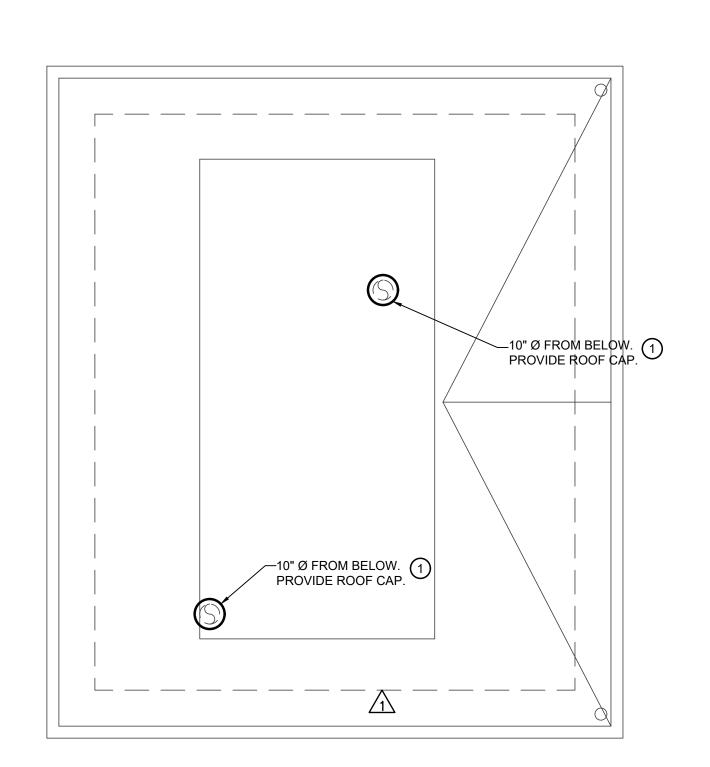
CHECKED: **DATE**: 02/25/2022 **SCALE**: PROJECT NUMBER: 2010200

MECHANICAL FLOOR PLAN **DEMO & NEW**

DRAWING NUMBER:

100% CD SUBMITTAL





NEW CONSTRUCTION GENERAL NOTES

- FRESH AIR INTAKES SHALL BE 10'-0" MIN. AWAY FROM ALL EXHAUST OUTLETS, PLUMBING VENTS, AND FLUES.
- 2. VENTS SHALL BE 18 INCH MINIMUM AWAY FROM PARAPET WALLS.
- 3. PROVIDE IN-FILL AND PATCH WORK TO LARGER, UNUSED WALL & ROOF PENETRATIONS.

 4. CONTRACTOR SHALL BELIEF EXISTING OPENING(S) IN BOOF FOR FUTURE.
- 4. CONTRACTOR SHALL REUSE EXISTING OPENING(S) IN ROOF FOR FUTURE DUCTWORK AND ETC, WHEREVER POSSIBLE COORDINATE WITH OTHER TRADES AS NECESSARY.
- 5. PATCH AND REPAIR EXISTING SURFACES AS REQUIRED TO FACILITATE DEMOLITION AND/OR PERFORMANCE OF THE NEW WORK. ALL NEW WORK SHALL MATCH IN KIND, QUALITY AND FINISH U.O.N.



BERKELEY2600 TENTH STREET, SUITE 700
BERKELEY, CA 94710-2597
510-450-1999 P

RFORMANCE OF THE NEW WORK. ALL NEW WORK
QUALITY AND FINISH U.O.N.

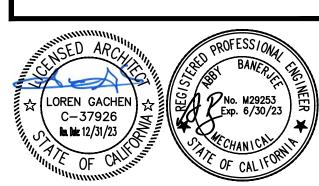
CONSTRUCTION KEYNOTES

(N) EXHAUST ROOF CAP.

RENOVATION

EYBEE POOL

CITY OF ROHNERT PARK 1170 GOLF COURSE DRIVE ROHNERT PARK, CA 94928





VANESSA GARRETT P.E. CE84141 DATE CITY ENGINEER

	REV	ISIOI	N SCHEDULE
NO	DATE	BY	DESCRIPTION
Λ	5/25/2022		AGENCY PLAN REVIEW
<u>^</u>	12/02/2022		AGENCY PLAN REVIEW

DRAWN: CHECKED:

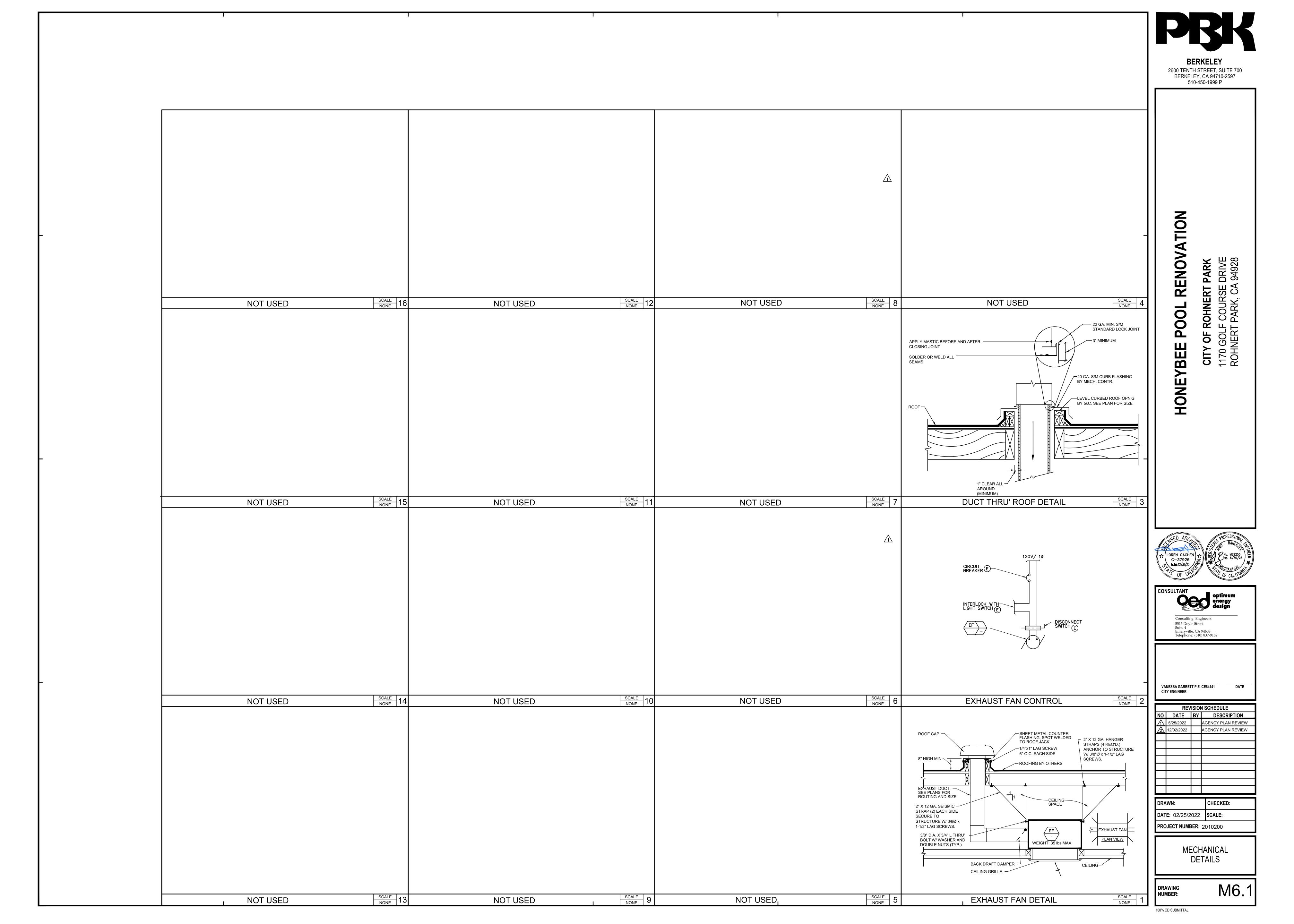
DATE: 02/25/2022 SCALE:

PROJECT NUMBER: 2010200

MECHANICAL ROOF PLAN

DRAWING NUMBER:

NORTH



GENERAL NOTES

- CHARACTERISTICS OF ALL UTILITIES AND PIPING, AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY
- ALL ACCESSIBLE WATER CLOSETS SHALL HAVE FLUSH VALVE WITH HANDLE ON OPEN SIDE.
- . ALL VALVES, UNIONS, ETC. TO BE SAME SIZE AS PIPE UNLESS OTHERWISE INDICATED ON DRAWINGS.
- . ALL PLUMBING FIXTURE VENTS TO TERMINATE A MINIMUM OF 12 INCHES FROM ANY VERTICAL SURFACE AND 10 FEET

BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, ELEVATIONS AND

- EXACT LOCATIONS AND MOUNTING HEIGHTS OF PLUMBING FIXTURES SHALL BE OBTAINED FROM THE ARCHITECTURAL
- ALL EXTERIOR GAS COCKS, WATER SHUT OFF VALVES AND/OR SEWER CLEANOUTS BELOW GROUND SHALL BE INSTALLED IN YARD BOXES WITH THE COVERS CONSPICUOUSLY MARKED "GAS", "WATER", AND "SEWER" RESPECTIVELY.
- CONNECTION BETWEEN INCOMPATIBLE MATERIALS ABOVE GRADE AND INSIDE BUILDING SHALL BE MADE WITH TWO (2) DIELECTRIC UNIONS SEPARATED BY A TWELVE INCH (12") SECTION OF RED BRASS PIPE.
- ALL CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE. THE CONTRACTOR SHALL COORDINATE ALL CLEANOUT LOCATIONS WITH EQUIPMENT, CABINETS, ETC., AND THE ARCHITECT PRIOR TO ANY INSTALLATION.
- SEE ARCHITECTURAL DRAWINGS FOR ACCESSIBLE FIXTURE LOCATIONS AND MOUNTING HEIGHTS. INSULATE ALL EXPOSED HOT WATER AND DRAIN PIPING BELOW ACCESSIBLE LAVATORIES AND SINKS.

10. ALL PLUMBING WORK SHALL BE INSTALLED SO AS TO AVOID INTERFERENCE WITH ELECTRICAL AND MECHANICAL

- EQUIPMENT AND STRUCTURAL FRAMING. 11. ALL WORK AND MATERIAL SHALL BE PERFORMED AND INSTALLED IN COMPLIANCE WITH CALIFORNIA PLUMBING CODE
- 12. THESE DRAWINGS INDICATE THE SEWER, WATER, AND STORM DRAIN SYSTEMS TO POINT OF CONNECTION 5'-0" OUTSIDE OF THE BUILDING. CONTINUATION OF THESE SYSTEMS IS SHOWN ON THE CIVIL DRAWINGS AND IS SPECIFIED UNDER ANOTHER SECTION OF THE SPECIFICATIONS. THE PIPING SHALL BE INSTALLED TO MEET THE INVERT ELEVATIONS SHOWN ON THE CIVIL DRAWINGS.
- 13. INSULATION (SEE SPECIFICATION FOR TYPE REQUIRED) AND COVERING ON PIPE AND TUBING SHALL HAVE A FLAME SPREAD RATING NOT TO EXCEED 25 AND A SMOKE DENSITY NOT TO EXCEED 50 WHEN TESTED IN ACCORDANCE WITH 2016 C.B.C. SECTION 720.7.
- 14. ALL EQUIPMENT SHALL BE LATERALLY SUPPORTED IN ALL DIRECTIONS TO RESIST A MIN. OF 20% OF THE EQUIPMENT'S OPERATING WEIGHT.

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NOTE:										P0.1	PLUMBING NOTES AND LEGEND							
ANY (T) PI SHALL BE						/ /	/ /	NO /		Sty /	/ _a /	(1/2 O.	/ /	4 10	NO NO		PD2.0	PLUMBING DEMO FLOOR PLAN
OR EQUAL		3 (11)	THE ALL STATES OF THE STATES O									P2.0	PLUMBING PROPOSED FLOOR PLANS					
			, ph	184.81 V		TO SE		Ly SOI			STATE		1000			(\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	P6.0	PLUMBING DETAILS
SERVIC	E		MILES SE	SIN ASS		TAR S			BY BY		O. VIV.	Set Of S	A CONTRACTOR			REMARKS		
NATER (C	MB) M) (HM)	INSIDE			•											5 PSI/100 FT. @ 8PSI MAX. VELOCITY		
(11)	VVIX)															W 6F31 MAX. VELOCITY		
WASTE & /ENT	(W) (V)	INSIDE						•								GRAVITY @ 2% SLOPE		
						_												

				Р	LUM	BING	FIX ⁻	TURE SCHEDULE
ITEM	FIXTURE	TRAP	WASTE DOO	H-IN CO	HOT WATER	COLD SNOILS	GAS	DESCRIPTION
WC 1	WATER CLOSET	INT	4"	2"	_	1"	-	AMERICAN STANDARD (A/S) NO. 3351.001 "AFWALL ELONGATED FLUSH VALVE TOILET", SIPHON JET, WALL HUNG, ELONGATED BOWL, TOP SPUD. COMPLETE WITH SLOAN ROYAL NO. 111-1.28 GPF FLUSH VALVE, OLSONITE NO. 95CC-SS SEAT AND ZURN NO. Z1203 & Z1204 SERIES CARRIER.
WC 2	WATER CLOSET (ACCESSIBLE)	INT	4"	2"	_	1"	_	AMERICAN STANDARD (A/S) NO. 3351.001 "AFWALL ELONGATED FLUSH VALVE TOILET", SIPHON JET, WALL HUNG, ELONGATED BOWL, TOP SPUD. COMPLETE WITH SLOAN ROYAL NO. 111-1.28 GPF FLUSH VALVE, OLSONITE NO. 95CC-SS SEAT AND ZURN NO. Z1203 & Z1204 SERIES CARRIER, MOUNT AT ADA ACCESSIBLE HEIGHT.
UR 1	URINAL	INT	2"	1-1/2"	-	3/4"	_	AMERICAN STANDARD (A/S) NO. 6550.005 "ALLBROOK URINAL", WALL HUNG, SIPHON JET. COMPLETE WITH SLOAN ROYAL NO. 186-0.5 GPF FLUSH VALVE AND ZURN NO. Z-1222 WALL HANGER.
L 1	LAVATORY (HW/CW)	1-1/4"	2"	1-1/2"	1/2"	1/2"	<u>^</u>	AMERICAN STANDARD (A/S) NO. 0355.012 "LUCERNE WALL HUNG LAVATORY", 20" X 18", WALL HUNG, COMPLETE WITH CHICAGO NO. 802 SELF CLOSING METERING SINGLE PUSH LEVEL FAUCET WITH 0.5 GPM AERATOR, 4" CENTERS, PROVIDE 131-ABNF THERMOSTATIC MIXING VALVE ASSE 1070 CERTIFIED. McGUIRE NO. 155A 1-1/4" OUTLET "OPEN GRID P.O. PLUG", McGUIRE NO. PW8090NCO 1-1/4" L.A. PATTERN P-TRAP WITH GALVANIZED NIPPLE AND CHROMIUM PLATED BRASS CASING, CHICAGO NO. 1017-ABCP LOOSE KEY STOPS WITH RIGID SUPPLIES, AND ZURN NO. Z-1231 CARRIER WITH STEEL PLATE.
SH 1	SHOWER (ADA)	I			3/4"	3/4"		SYMMONS NO. C-96-1-295-X "TEMPTROL SHOWER SYSTEM", COMPLETE WITH PRESSURE BALANCING MIXING VALVE WITH LEVER HANDLE, INTEGRAL STOPS, #4-295-B-1.5 GPM ALL BRASS ADJUSTABLE SPRAY AND NOZZLE-TYPE HEAD WITH BACK PLATE.
DF 1	DRINKING FOUNTAIN (ACCESSIBLE, PEDESTAL)	1-1/2"	2"	1-1/2"		3/4"	1	HAWS NO. 3500, PEDESTAL MOUNTED, TWO-BUBBLER, BARRIER FREE, REINFORCED CAST CONCRETE WITH EXPOSED AGGREGATE, STAINLESS STEEL RECEPTORS, VANDAL-PROOF BUBBLERS, PUSH BUTTON VALVES AND STAINLESS STEEL ACCESS PLATES, COMPLETE WITH HAWS NO. 6625 MATCHING CONCRETE BOX AND NO. 6620 MATCHING CONCRETE STEP, 10" HIGH. INSTALL WITH 30" SQUARE X 6" THICK CONCRETE SLAB PER MANUFACTURER'S RECOMMENDATION.
FD 1	FLOOR DRAIN	2"	2"	1-1/2"	_	-	_	ZURN NO. ZN-415-B-P, CAST IRON BODY, COMPLETE WITH ROUND NICKEL-BRONZE TOP, CLAMPING COLLAR, 1/2" TRAP PRIMER CONNECTION AND P-TRAP.
FD 2	FLOOR DRAIN (SHOWER)	2"	2"	1-1/2"	-	-	_	ZURN NO. ZN-415-B-113, CAST IRON BODY, COMPLETE WITH ROUND NICKEL-BRONZE TOP, CLAMPING COLLAR, AND P-TRAP.
TP 1	TRAP PRIMER (SINGLE DRAIN)	-	_	_	-	1/2"	_	MIFAB NO. MR-500 TRAP PRIMER VALVE, BRASS BODY, ADJUSTABLE, COMPLETE WITH 1/2" COPPER TYPE "L" PIPE TO RECEPTOR. INSTALL PER MANUFACTURER'S RECOMMENDATIONS, COMPLETE BEHIND ACCESS PANEL WITH SHUT-OFF VALVE.
TP 2	TRAP PRIMER (MULTIPLE DRAIN)	-	-	-	-	1/2"	-	MIFAB NO. MR-500 TRAP PRIMER VALVE, BRASS BODY, ADJUSTABLE, COMPLETE WITH MI-DU DISTRIBUTION UNIT, 1/2" COPPER TYPE "L" PIPE TO EACH RECEPTOR. INSTALL PER MANUFACTURER'S RECOMMENDATIONS, COMPLETE BEHIND ACCESS PANEL WITH SHUT-OFF VALVE.
SH 2	SHOWER	-				3/4" TW		SYMMONS NO. 3-325 "SHOWEROFF" SINGLE-TEMPERATURE METERED SHOWER SYSTEM, COMPLETE WITH METERING VALVE, INTEGRAL STOPS AND #4-295-B-1.5 GPM ALL BRASS ADJUSTABLE SPRAY, NOZZLE-TYPE HEAD WITH BACK PLATE. VANDAL RESISTANT.
S 1	SINK (FACULTY, SINGLE BOWL, ACCESSIBLE, HW/CW, DISPOSER)	1-1/2"	2"	1-1/2"	1/2"	1/2"	-	ELKAY NO. LRAD221955 "LUSTERTONE SINGLE BOWL", SINGLE COMPARTMENT, 18 GAUGE TYPE 304 STAINLESS STEEL, SELF-RIMMING, 22" X 19" X 5-1/2" DEEP. COMPLETE WITH CHICAGO NO. 2304-E35ABCP FAUCET WITH 1.5 GPM AERATOR, INSINKERATOR "BADGER 1" FOOD WASTE DISPOSER, 1/3 H.P./120V/6.7 AMP AVG., McGUIRE NO. PW8089NC0 1-1/2" L.A. PATTERN P-TRAP WITH TRAP AND SUPPLY COVERS, GALVANIZED NIPPLE AND CHROMIUM PLATED BRASS CASING, AND CHICAGO NO. 1017-ABCP LOOSE KEY STOPS WITH RIGID SUPPLIES. MOUNT IN ACCORDANCE WITH ADA REQUIREMENTS.
HB 1	HOSE BIBB	-				3/4"		ACORN #8121-CP-LF HOSE BIBB WITH VACUUM BREAKER. PROVIDE #8211 ACCESS PANEL WITH LOCKING DOOR AND COVER
JS 1	JANITORS SINK	3"	3"	2"	1/2"	1/2"		AMERICAN STANDARD #7745.811 CORNER SERVICE SINK", ENAMELED CAST IRON, CORNER FLOOR MOUNTED, VINYL RIM GUARD. 3" DIAMETER DRAIN WITH FLAT CHROME STRAINER. CHICAGO NO. 897-CCP WALL MOUNTED FAUCET W/ VACUUM BREAKER.

		FIXTURE UNITS											
NUMBER	TYPE OF FIXTURE	CW FU PER FIXTURE	TOTAL CW FU UNITS	WASTE FU PER FIXTURE	TOTAL WASTE FU UNITS								
1	DRINKING FOUNTAIN	0.5	0.5	0.5	0.5								
-	HOSE BIBBS	-	-	1	-								
-	ADD HOSE BIBBS	-	1	1	-								
4	LAVATORY	1	4	1	4								
1	CONCESSION SINK	1.5	1.5	2	2								
2	URINALS	20	40	2	4								
5	WATER CLOSETS	2.5	12.5	4	20								
6	FLOOR DRAIN	-	1	2	12								
TOTAL FI	XTURE UNITS		58.5		42.5								

	^ -	PLICARI E CODES					
	YB	YARD BOX					
	VTR	VENT THRU ROOF					
	SLVE	SLEEVE					
	PLCS	PLACES					
	POC	POINT OF CONNECTION					
	I.E.	INVERT ELEVATION					
	FFE	FINISH FLOOR ELEVATION					
	FLR	FLOOR					
	DN	DOWN					
	COTG	CLEANOUT TO GRADE					
	CONT	CONTINUATION					
	CLG	CEILING					
	BEL	BELOW					
	AP	ACCESS PANEL					
-	ABV	ABOVE					
		RISER DOWN					
	***************************************	RISER UP					
	WCO	WALL CLEANOUT					
ф	FCO	FLOOR CLEANOUT					
	BV	BALANCING VALVE					
	GC SOVIGE	GAS COCK					
×	SOV/GC	SHUT-OFF VALVE OR GAS COCK IN YARD BOX					
	SOV	SHUT-OFF VALVE					
	TP	TRAP PRIMER DIRECTION OF FLOW					
TP	OCD						
OCD	CD	OVERFLOW CONDENSATE DRAIN					
CD	HWR	HOT WATER RETURN					
	HW	HOT WATER RETURN					
	CW	COLD WATER					
	V	SANITARY VENT					
OD —	OD	OVERFLOW DRAIN BELOW FLOOR OR GRADE					
OD	OD	OVERFLOW DRAIN ABOVE FLOOR					
SD —	SD	STORM DRAIN BELOW FLOOR OR GRADE					
SD	SD	STORM DRAIN ABOVE FLOOR					
CWV	CWV	COMBINATION WASTE & VENT BELOW FLOOR OR GRADE					
	S OR W	SOIL OR WASTE BELOW FLOOR OR GRADE					
	S OR W	SOIL OR WASTE ABOVE FLOOR					

LEGEND

DESCRIPTION

ABBREVIATION

SYMBOL

APPLICABLE CODES

BUILDING OCCUPANCY CLASSIFICATION:

THE CONSTRUCTION OF THIS PROJECT SHALL CONFORM TO THE REQUIREMENTS OF:

2019 California Building Standards Administrative Code PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)

2019 California Building Code PART 2, TITLE 24, CCR

2019 California Electrical Code PART 3, TITLE 24, CCR

2019 California Mechanical Code PART 4, TITLE 24, CCR

2019 California Plumbing Code PART 5, TITLE 24, CCR 2019 California Energy Code

PART 6, TITLE 24, CCR 2019 California Fire Code

PART 9, TITLE 24, CCR 2019 California Green Building Standard Code (CALGreen),

Part II, Title 24 C.C.R. 2019 California Referenced Standards, Part 12, Title 24 C.C.R. Title 18 C.C.R., Public Safety, State Fire Marshal Regulations.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND

- DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC.
- 1. ALL PERMANENT EQUIPMENT AND COMPONENTS. 2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
- 3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

- A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE
- B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

2600 TENTH STREET, SUITE 700 BERKELEY, CA 94710-2597

510-450-1999 P

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VANESSA GARRETT P.E. CE84141

CITY ENGINEER

		REV	ISIOI	N SCHEDULE
	NO	DATE	BY	DESCRIPTION
	Λ	5/25/2022		AGENCY PLAN REVIEW
	<u>^</u>	12/02/2022		AGENCY PLAN REVIEW
	<u>/</u> 3\	03-01-23		ADDENDUM 1
ı				

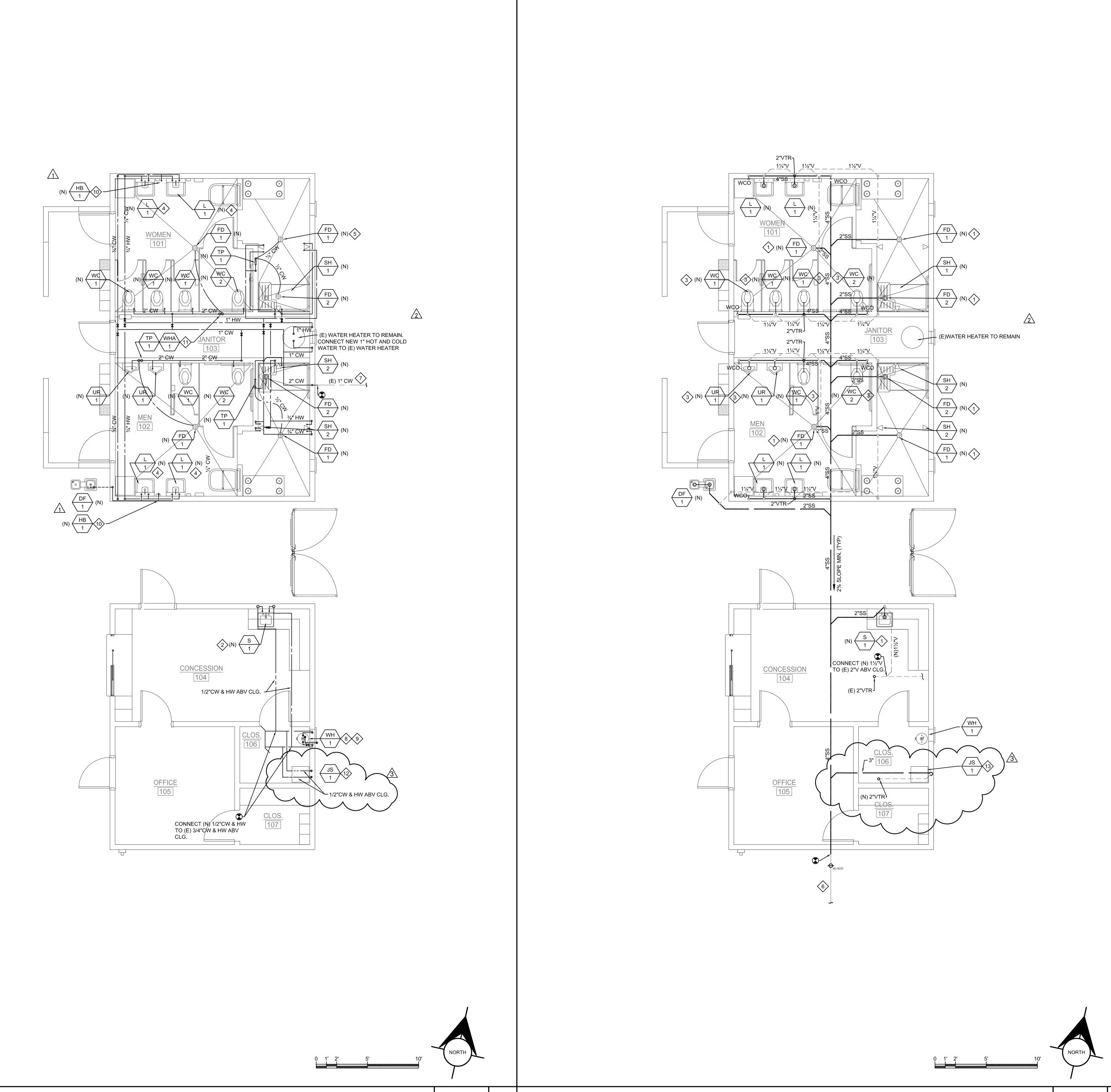
CHECKED: **DATE**: 02/25/2022 **SCALE**: PROJECT NUMBER: 2010200

PLUMBING NOTES AND **LEGEND**

NUMBER:

100% CD SUBMITTAL

	GAS WATER HEATER SCHEDULE											
ITEM	MANUFACTURER	MODEL NO.	SERVICE	LOCATION	STORAGE	RECOVERY CAPACITY @ 90°F		OUTLET TEMPER °F	GAS INPUT BTU/HR	EFFICIENCY (UEF)	OPER. WT. LBS.	REMARKS
WH 1	A.O. SMITH	GUC-30	DOMESTIC HOT WATER	GARAGE	29 GAL.	34	62°	120°	33,000	0.59	126	MUST HAVE ASHRAE STICKER OR OTHERWISE COMPLY WITH TITLE 24 REQUIREMENT FOR SERVICE WATER HEATERS. SEE DETAIL 1/P-6.0.



NEW CONSTRUCTION GENERAL NOTES

- FOR CONTINUATION OF ALL UTILITIES SEE CIVIL ENGINEERING DRAWINGS.
 - ALL SLEEVES THRU FOOTINGS SHALL BE MINIMUM TWO PIPE SIZES LARGER THE THE PIPE GOING THRU IT, PROVIDE ALL SLEEVES.
 - ALL STORM DRAIN LINES, WASTE LINES & COLD WATER LINES INTO FOOTINGS SHALL BE DOUBLE HALF LAP WRAPPED WITH 1/8" THICK "ARMOFLEX" INSULATION.

ALSO, THE CONTRACTOR SHALL PROVIDE BLOCKED OUT AREAS IN THE FOOTING

FOR STORM DRAIN LINES, WASTE LINES & COLD WATER LINES. ALL PIPING SHALL AVOID THE LOWER 9" OF THE FOOTING. BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, ELEVATIONS AND CHARACTERISTICS OF ALL UTILITIES AND

PIPING BY PHYSICAL EXCAVATION, AND SHALL IMMEDIATELY NOTIFY THE

- ARCHITECT OF ANY DISCREPANCIES. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES AND POINTS OF CONNECTION PRIOR TO BIDDING PROJECT.
- WHERE PLANS INDICATE NEW FIXTURES OR EQUIPMENT CONNECTING TO
- EXISTING SERVICES, PLUMBING CONTRACTOR SHALL MODIFY AND/OR EXTEND EXISTING PIPING OR ROUGH-INS AS REQUIRED TO SUIT THE NEW FIXTURE.
- CONTRACTOR SHALL COORDINATE EXACT ROUGH-IN LOCATIONS WITH ALL EQUIPMENT INSTALLATION INSTRUCTIONS.

CONSTRUCTION KEYNOTES

- PROVIDE NEW 2" SS W/ 1½" VENT, CONNECT TO NEAREST EXISTING SANITARY SEWER AND VENT IN WALL.
- PROVIDE NEW ½" HW & CW TO SINK, CONNECT TO NEAREST EXISTING HWS AND CWS IN WALL.
- \bigcirc PROVIDE NEW 3" SS W/ 2" VENT, CONNECT TO NEAREST EXISTING SANITARY SEWER AND VENT IN WALL.
- PROVIDE NEW 3/4" HW AND CW TO LAVATORY, CONNECT TO NEAREST EXISTING HWS AND CWS IN WALL.
- 5 FULLY SERVICE EXISTING FLOOR DRAIN AND ASSOCIATED TRAP PRIMER.
- PROVIDE ALLOWANCE FOR REPAIRING/REPLACING FIXTURE AND ASSOCIATED TRAP PRIMER. ADJUST FIXTURE TO NEW FINISHED FLOOR ELEVATION.

6 CONNECT TO EXISTING SANITARY SEWER. CONTRACTOR TO FIELD VERIFY PIPE

- SIZE AND LOCATION. CONNECT TO EXISTING CW SUPPLY. CONTRACTOR TO FIELD VERIFY PIPE SIZE AND LOCATION.
- 8 WATER HEATER CONNECT TO FLUE UP THRU ROOF. REFER TO DETAIL: $\frac{\cdot}{P6.0}$ WATER HEATER CONNECT TO BE SEISMIC STRAP TO WALL. FOR WATER HEATER MOUNTING, REFER TO DETAIL:
- PROVIDE NEW HOSE BIBB W/ VACUUM BREAKER +18" ABV FINISH FLOOR
- 1> PROVIDE NEW TRAP PRIMER AND WATER HAMMER ARRESTOR ON 2"CW 12 FURNISH AND INSTALL NEW JANTORS SINK. R.I&C NEW 1/2"CW &HW AS
- FURNISH AND INSTALL NEW JANITORS SINK. R.I&C NEW 3" SEWER BELOW FLOOR AND 2"VTR. PROVIDE 3"WCO



2600 TENTH STREET, SUITE 700 BERKELEY, CA 94710-2597 510-450-1999 P

RENOV, 0 0



VANESSA GARRETT P.E. CE84141 CITY ENGINEER

	REVISION SCHEDULE											
NO	DATE	BY	DESCRIPTION									
\bigwedge	5/25/2022		AGENCY PLAN REVIEW									
<u>^</u>	12/02/2022		AGENCY PLAN REVIEW									
<u> </u>	03-01-23		ADDENDUM 1									

DRAWN:	CHECKED:				
DATE: 02/25/2022	SCALE:				
PROJECT NUMBER: 2	010200				

PLUMBING PROPOSED **FLOOR PLANS**

P2.0

100% CD SUBMITTAL

PLUMBING PROPOSED CONCESSION/TOILET FLOOR PLAN - WASTE AND VENT

STATE OF CALIFORNIA Domestic Water Heating System	STATE OF CALIFORNIA Domestic Water Heating System	<u> </u>
NRCC-PLB-E CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-PLB-E This document is used to demonstrate compliance for nonresidential occupancies with requirements in \$110.1, \$110.3, \$120.3, and \$140.5, and with requirements in \$141.0 for additions and alterations, for domestic water heating scopes using the prescriptive path. For high-rise residential and hotel/motel occupancies compliance is demonstrated with	NRCC-PLB-E CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE Project Name: HoneyBee Pool Renovations Report Page: (Page 2 of 6) Project Address: 1170 Golf Course Drive, Rohnart Park CA 94928 Date Prepared: 2022-05-18T18:16:05-04:00	
requirements in §110.1, §110.3, §120.3, §150.0 and §150.1(c)8, and with requirements §150.2 for additions. Project Name: HoneyBee Pool Renovations Report Page: (Page 1 of 6) Project Address: 1170 Golf Course Drive, Rohnart Park CA 94928 Date Prepared: 2022-05-18T18:16:05-04:00	C. COMPLIANCE RESULTS Table C will indicate if the project data input into the compliance document is compliant with water heating requirements. If this table says "DOES NOT COMPLY" or "COMPLIES with	
A. GENERAL INFORMATION 10 Project Location (city) Rohnert Park 02 Climate Zone 2 10 Occupancy Types Within Project (select all that apply):	Exceptional Conditions" refer to Table D. or the table indicated as not compliant for guidance. O1	NOTE: WATER HEATER FLUE SHALL TERMINATION AS PER UPC SECTION 517.0 MINIMUM 8 FEET FROM THE WALL OR ABOVE THE WALL.
☑ Nonresidential ☐ High-Rise Residential ☐ Hotel/Motel ☐ State Building ☐ Healthcare Facility ☑ Other (Write In) B. PROJECT SCOPE	Yes Yes COMPLIES D. EXCEPTIONAL CONDITIONS	
This table includes domestic water heating systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive paths outlined in §140.5, §150.1(c)8, and §141.0(a), or §141.0(b)2N for additions or alterations. Solar water heating systems are documented on the NRCC-SRA compliance document. Combined hydronic water heating systems are documented on the NRCC-MCH compliance document.	This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form. E. ADDITIONAL REMARKS	
01 02 03 My project consists of (check all that apply): System Type ^{1,2} System Components New system (DHW system being installed for the first time in newly constructed building) Equipment Distribution Controls	This table is includes remarks made by the permit applicant to the Authority Having Jurisdiction.	
¹ FOOTNOTES: Point of use water heaters, or other non-central systems used to serve nonresidential spaces, are considered individual systems. ² Dwelling units refers to hotel/motel guest rooms and units in a high-rise residential occupancy.		ROOF
		VENT THRU ROOF
Registration Number: Registration Date/Time: Registration Provider: Energy Code Ace CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2022-05-18 15:16:22 Schema Version: rev 20200601	Registration Number: Registration Date/Time: Registration Provider: Energy Code Ace CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2022-05-18 15:16:22 Schema Version: rev 20200601	
		METAL BESTOS TYPE 'B'
STATE OF CALIFORNIA Domestic Water Heating System NRCC-PLB-E CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA Domestic Water Heating System NRC-PIR-F CALIFORNIA ENERGY COMMISSION	WITH DOUBLE WALL
NRCC-PLB-E CERTIFICATE OF COMPLIANCE Project Name: CALIFORNIA ENERGY COMMISSION NRCC-PLB-E Report Page: (Page 3 of 6)	NRCC-PLB-E CERTIFICATE OF COMPLIANCE Project Name: HoneyBee Pool Renovations Report Page: (Page 4 of 6)	FLUE THRU ROOF DETAIL
Project Address: 1170 Golf Course Drive, Rohnart Park CA 94928 Date Prepared: 2022-05-18T18:16:05-04:00	Project Address: 1170 Golf Course Drive, Rohnart Park CA 94928 Date Prepared: 2022-05-18T18:16:05-04:00	
F. DOMESTIC HOT WATER EQUIPMENT This table is used to demonstrate compliance with mandatory equipment requirements in §110.1 and §110.3. For high-rise residential and hotel/motel occupancies, compliance with	Project Address: 1170 Golf Course Drive, Rohnart Park CA 94928 Date Prepared: 2022-05-18T18:16:05-04:00 G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM This table is used to demonstrate compliance for nonresidential occupancies with distribution requirements in §120.3 and §140.5. For high-rise residential and hotel/motel occupancies,	NOTES: 1. VENT PIPE SHALL TERMINATE AS PER UPC SECTION 906.0
F. DOMESTIC HOT WATER EQUIPMENT This table is used to demonstrate compliance with mandatory equipment requirements in \$110.1 and \$110.3. For high-rise residential and hotel/motel occupancies, compliance with prescriptive requirements in \$150.1(c)8 must also be demonstrated and with \$150.2 for addition and alteration scopes. Equipment Schedule: Central Systems 07 08 09 10 11 12 13 14 15	Project Address: 1170 Golf Course Drive, Rohnart Park CA 94928 Date Prepared: 2022-05-18T18:16:05-04:00 G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM This table is used to demonstrate compliance for nonresidential occupancies with distribution requirements in §120.3 and §140.5. For high-rise residential and hotel/motel occupancies, compliance is demonstrated with requirements §110.3(c), §120.3, §150.0, §150.1 Recirculation Loops in Central Systems Serving Dwelling Units or Nonresidential Spaces Yes No Not Applicable Requirement	NOTES: 1. VENT PIPE SHALL TERMINATE AS PER UPC SECTION 906.0 2. ALL PLIES SET IN BITUMEN. SEE ARCHITECTURAL SPECIFICATION FOR SURFACING.
F. DOMESTIC HOT WATER EQUIPMENT This table is used to demonstrate compliance with mandatory equipment requirements in \$110.1 and \$110.3. For high-rise residential and hotel/motel occupancies, compliance with prescriptive requirements in \$150.1(c)8 must also be demonstrated and with \$150.2 for addition and alteration scopes. Equipment Schedule: Central Systems 07 08 09 10 11 12 13 14 15 Name or Item Tag Equipment Type Volume (gal) Rated Input Capacity (Btu/h) Rated Efficiency (%) Required (%) Efficiency Required (%) WH-1 Gas Storage Water Heater 30 33,000 0.85 0.8 Et 1,689 1,691.25	Project Address: 1170 Golf Course Drive, Rohnart Park: CA 94928 Date Prepared: 2022-05-18T18:16:05-04:00	2. ALL PLIES SET IN BITUMEN. SEE ARCHITECTURAL
F. DOMESTIC HOT WATER EQUIPMENT This table is used to demonstrate compliance with mandatory equipment requirements in \$110.1 and \$110.3. For high-rise residential and hotel/motel occupancies, compliance with prescriptive requirements in \$150.1(c)8 must also be demonstrated and with \$150.2 for addition and alteration scopes. Equipment Schedule: Central Systems 07 08 09 10 11 12 13 14 15 Name or Item Tag Equipment Type Volume (gal) Rated Input Capacity (Btu/h) Rated Efficiency Required (%) Requirement (Project Address: 1170 Golf Course Drive, Rohnart Park CA 94928 Date Prepared: 2022-05-18T18:16:05-04:00 G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM This table is used to demonstrate compliance for nonresidential occupancies with distribution requirements in \$120.3 and \$140.5. For high-rise residential and hotel/motel occupancies, compliance is demonstrated with requirements \$110.3(c), \$120.3, \$150.0, \$150.1 Recirculation Loops in Central Systems Serving Dwelling Units or Nonresidential Spaces Yes No Not Applicable O1 Air release valve or vertical pump installation per \$110.3(c)4A O2 Check valve or similar located between recirculation pump and water heating equipment to prevent backflow per \$110.3(c)4B O3 Hose bibb installed between pump and equipment and isolation valve between hose bibb and equipment per \$110.3(c)4C Isolation valves on both sides of the pump per \$110.3(c)4D Cold water and recirculation loop piping shall not be connected to the hot water storage tank drain port per \$110.3(c)4E Check valve installed on cold water supply between hot water system and next closest tee on cold water supply per \$110.3(c)4E For central systems serving multiple dwelling units, design includes two or more recirculation loops serving separate dwelling units	2. ALL PLIES SET IN BITUMEN. SEE ARCHITECTURAL
F. DOMESTIC HOT WATER EQUIPMENT This table is used to demonstrate compliance with mandatory equipment requirements in \$110.1 and \$110.3. For high-rise residential and hotel/motel occupancies, compliance with prescriptive requirements in \$150.1(c)8 must also be demonstrated and with \$150.2 for addition and alteration scopes. Equipment Schedule: Central Systems 07	Date Prepared: 2022-05-18T18.16:05-04:00	2. ALL PLIES SET IN BITUMEN. SEE ARCHITECTURAL SPECIFICATION FOR SURFACING. MODIFIED MEMBRANE FLASHING
F. DOMESTIC HOT WATER EQUIPMENT This table is used to demonstrate compliance with mandatory equipment requirements in \$110.1 and \$110.3. For high-rise residential and hotel/motel occupancies, compliance with prescriptive requirements in \$150.1(c)8 must also be demonstrated and with \$150.2 for addition and alteration scopes. Equipment Schedule: Central Systems 07	Project Address: 1170 Golf Course Drive, Rohnart Park: CA 84928 Date Prepared: 2022-05-18T18:16:05-04:00	2. ALL PLIES SET IN BITUMEN. SEE ARCHITECTURAL SPECIFICATION FOR SURFACING. MODIFIED MEMBRANE FLASHING PLY, 9" MIN. ON FIELD BASE FLASHING PLY 6" MIN. ON
F. DOMESTIC HOT WATER EQUIPMENT This table is used to demonstrate compliance with mandatory equipment requirements in \$110.1 and \$110.3. For high-rise residential and hotel/motel occupancies, compliance with prescriptive requirements in \$150.1(c)8 must also be demonstrated and with \$150.2 for addition and alteration scopes. Equipment Schedule: Central Systems 07	G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM This table is used to demonstrate compliance for nonresidential occupancies with distribution requirements in \$120.3 and \$140.5. For high-rise residential and hotel/motel occupancies, compliance is demonstrated with requirements \$110.3(c), \$120.3, \$150.0, \$150.1 Recirculation Loops in Central Systems Serving Dwelling Units or Nonresidential Spaces Ves No Applicable Air release valve or vertical pump installation per \$110.3(c)44 O2 O O Check valve or similar located between recirculation pump and water heating equipment to prevent backflow per \$110.3(c)48 O3 O O DO Check valve or similar located between recirculation pump and water heating equipment to prevent backflow per \$110.3(c)48 O4 O O DO Check valve or similar located between pump and equipment and isolation valve between hose bibb and equipment per \$110.3(c)46 O5 O O Check valve installed between pump and equipment and isolation valve between hose bibb and equipment per \$110.3(c)46 O6 O O Check valve installed on cold water supply between hot water system and next closest tee on cold water supply per \$110.3(c)46 OF O O Check valve installed on cold water supply between hot water system and next closest tee on cold water supply per \$110.3(c)46 OF O O O O Check valve installed on cold water supply between hot water system and next closest tee on cold water supply per \$110.3(c)46 OF O O O O O O O O O O O O O O O O O O	2. ALL PLIES SET IN BITUMEN. SEE ARCHITECTURAL SPECIFICATION FOR SURFACING. MODIFIED MEMBRANE FLASHING PLY, 9" MIN. ON FIELD BASE FLASHING PLY 6" MIN. ON FIELD
F. DOMESTIC HOT WATER EQUIPMENT This table is used to demonstrate compliance with mandatory equipment requirements in \$110.1 and \$110.3. For high-rise residential and hotel/motel occupancies, compliance with prescriptive requirements in \$150.1(c)8 must also be demonstrated and with \$150.2 for addition and alteration scapes. Equipment Schedule: Central Systems 07	G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM This table is used to demonstrate compliance for nonresidential occupancies with distribution requirements in \$120.3 and \$140.5. For high-rise residential and hotel/motel occupancies, compliance is demonstrated with requirements \$110.3(c), \$120.3, \$150.0, \$150.1 Recirculation Loops in Central Systems Serving Dwelling Units or Nonresidential Spaces Yes No No Applicable 10 Air release valve or vertical pump installation per \$110.3(c)44 02 Check valve or similar located between recirculation pump and water heating equipment to prevent backflow per \$110.3(c)48 03 Check valve or similar located between recirculation pump and water heating equipment to prevent backflow per \$110.3(c)48 05 Cold water and recirculation loop piping shall not be connected to the hot water storage tank drain port per \$110.3(c)46 06 Check valve installed on cold water supply between hot water system and next closest tee on coid water supply per \$110.3(c)46 07 Check valve installed on cold water supply between the water system and next closest tee on coid water supply per \$110.3(c)46 Mandatory Pipe Insulation All Occupancies For systems serving nonresidential spaces, pipe insulation for the following applications is specified to comply with Table 120.3-A (see below) per \$120.3 : • Recirculating system piping, including supply and return piping of the water heater • Pipes that are externally heated Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service per \$120.3(b) and \$150.0(i) and \$150.0(ii) and \$150.0(iii) and \$1	2. ALL PLIES SET IN BITUMEN. SEE ARCHITECTURAL SPECIFICATION FOR SURFACING. MODIFIED MEMBRANE FLASHING PLY, 9" MIN. ON FIELD BASE FLASHING PLY 6" MIN. ON FIELD MODIFIED MEMBRANE
F. DOMESTIC HOT WATER EQUIPMENT This table is used to demonstrate compliance with mandatory equipment requirements in \$110.1 and \$110.3. For high-rise residential and hotel/matel occupancies, compliance with prescriptive requirements in \$150.16(8) must also be demonstrated and with \$150.2 for addition and afteration scapes. Equipment Schedule: Central Systems O. 8. 9. 10. 11. 12. 13. 14. 15. Name or Item Tag. Equipment Type: Wolume [gai) Rated Input Capacity (Btu/n). Rated Efficiency Efficiency Efficiency Efficiency Efficiency Unit Standby Loss¹ Standb	Project Address: 170 Colf Course Dive. Reheard Pass CA 94/09 Date Prepared: 2022-05-18T18-16-05-04-00	2. ALL PLIES SET IN BITUMEN. SEE ARCHITECTURAL SPECIFICATION FOR SURFACING. MODIFIED MEMBRANE FLASHING PLY, 9" MIN. ON FIELD BASE FLASHING PLY 6" MIN. ON FIELD MODIFIED MEMBRANE
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F. DOMESTIC HOT WATER EQUIPMENT This table is used to demonstrate compliance with mandatory equipment requirements in \$110.1 and \$110.3. For high-rise residential and hotel/motel occupancies, compliance with prescriptive requirements in \$19.0.1(s)8 must also be demonstrated and with \$150.2 for addition and afteration scopes. Equipment Schedule: Central Systems OB	Project Address: 1770 GOT Course Diver. Roman Plans. CA 94028 Date Prepared: 2022-05-18T18-16-05-04-00	2. ALL PLIES SET IN BITUMEN. SEE ARCHITECTURAL SPECIFICATION FOR SURFACING. MODIFIED MEMBRANE FLASHING PLY, 9" MIN. ON FIELD BASE FLASHING PLY 6" MIN. ON FIELD MODIFIED MEMBRANE FELT PLIES
F. DOMESTIC HOT WATER EQUIPMENT This table is used to demonstrate compliance with mondatory equipment requirements in \$110.1 and \$110.3, for high-rise residential and hote/matel occupancies, compliance with perscriptive requirements in \$150.1(cit must also be demonstrated and with \$150.2) for addition and afteration scopes. Equipment Schedule: Central Systems 07 08 09 10 11 12 13 14 15 Name or Grapisment Type Volume (gal) Read input. Reted Efficiency Fifticiency Efficiency Unit Standby Lost Required (%) Efficiency Unit Standby Lost Standby Lost Whi-1 Gas Storage Water Heater 30 31,000 0.85 0.8 Et 1,689 1.891.25 **FOOTIONER: For gas water heaters, Poolines, standby loss is in FIFTING for electric storage water heaters, standby loss is in Sylve Water Heating Equipment All Occupancies **Vex No Not Applicable** **Per No Not Applicable** **Designed Standby Lost** **Wester Heating Equipment All Occupancies** **Vex No Not Applicable** **Designed Standby Lost** **Per No Not Applicable** **Designed Standby Lost** **Per No Not Applicable** **Per No Not Applicable** **Per No Not Applicable** **Designed Standby Lost** **Per No Not Applicable** **Per No Not	Commission of the Commission of the Properties Commission of the Comm	2. ALL PLIES SET IN BITUMEN. SEE ARCHITECTURAL SPECIFICATION FOR SURFACING. MODIFIED MEMBRANE FLASHING PLY, 9" MIN. ON FIELD BASE FLASHING PLY 6" MIN. ON FIELD MODIFIED MEMBRANE FELT PLIES VENT THRU ROOF DETAIL NOTE:
F. DOMESTIC HOT WATER EQUIPMENT This table is used to demonstrate compliance with mandatory equipment requirements in \$110.1 and \$110.2. For high-rise residential and hatel/matel accupancies, compliance with prescriptive requirements in \$15.0 1.08 must also be demonstrated and with \$150.2 for addition and afteration scapes. [Suppliment Schedule: Central Systems 1	Some state 100 composition	2. ALL PLIES SET IN BITUMEN. SEE ARCHITECTURAL SPECIFICATION FOR SURFACING. MODIFIED MEMBRANE FLASHING PLY, 9" MIN. ON FIELD BASE FLASHING PLY 6" MIN. ON FIELD MODIFIED MEMBRANE FELT PLIES VENT THRU ROOF DETAIL NOTE: CPC SECTION NO. 905.2, WHERE VENT PIPE CONNECTS TO HORIZONTAL DRAINAGE PIPE, THE VENT PIPE SHALL HAVE IT'S INVERT TAKEN OFF ABOVE THE DRAINAGE CENTERLINE OF SUCH PIPE
F. DOMESTIC HOT WATER EQUIPMENT This trable is used to demonstrate compliance with mandatory equipment requirements in \$150, 2 and \$150, 2. For high-rise residented and hotel/motel ecouperoises, compliance with prescription enginements in \$150, 2 for definition and effection storages. Gautiment School Letter 1975 18 (2) and 1975 1975 1975 1975 1975 1975 1975 1975	Project Address: 170 colf Co. no flows, Reference Co. A 1871 81 1800 0 0 1,000	2. ALL PLIES SET IN BITUMEN. SEE ARCHITECTURAL SPECIFICATION FOR SURFACING. MODIFIED MEMBRANE FLASHING PLY, 9" MIN. ON FIELD BASE FLASHING PLY 6" MIN. ON FIELD MODIFIED MEMBRANE FELT PLIES VENT THRU ROOF DETAIL NOTE: CPC Section No. 905.2. Where vent pipe CONNECTS TO HORIZONTAL DRAINAGE PIPE, THE VENT PIPE SHALL HAVE IT'S INVERT TAKEN OFF
F. DOMESTIC HOT WATER EQUIPMENT This table is used to demonstrate compliance with manastary equipment requirements in \$110.1 and \$110.3 For high-rise residential and hotel/model accupancies, compliance with pre-cipilors requirements in \$150.1 (i.g. mass usos be demonstrated and with \$150.2 for addition and offerations scapes. Compliance Food-food-food-food-food-food-food-food-	Project Address: 1770 GotTCo.no Rom. Roman Pain - CA 64200 Date Prepared: 2022 05:18118.1000-01000	2. ALL PLIES SET IN BITUMEN. SEE ARCHITECTURAL SPECIFICATION FOR SURFACING. MODIFIED MEMBRANE FLASHING PLY, 9" MIN. ON FIELD BASE FLASHING PLY 6" MIN. ON FIELD MODIFIED MEMBRANE FELT PLIES VENT THRU ROOF DETAIL NOTE: CPC SECTION NO. 905.2. WHERE VENT PIPE CONNECTS TO HORIZONTAL DRAINAGE PIPE, THE VENT PIPE SHALL HAVE ITS INVERT TAKEN OFF ABOVE THE DRAINAGE CENTERLINE OF SUCH PIPE DOWNSTREAM OF THE TRAP BEING SERVED.
F. DOMESTIC HOT WATER EQUIPMENT This table is used to demonstrate consistance with mandatory equipment requirements in \$110,1 and \$110,3 for high-rise realisensists in \$150,1 (as in mandatory equipment requirements in \$110,1 and \$110,3 for high-rise realisensists in \$150,1 (as in mandatory equipment requirements in \$110,1 and \$110,3 for high-rise realisensists in \$150,1 (as in mandatory equipment requirements in \$150,1 (as in mandatory equipment requirements in \$150,1 (as in mandatory equipment requirements) O7	Project Address: 170 col 1	2. ALL PLIES SET IN BITUMEN, SEE ARCHITECTURAL SPECIFICATION FOR SURFACING. MODIFIED MEMBRANE FLASHING PLY, 9" MIN. ON FIELD BASE FLASHING PLY 6" MIN. ON FIELD MODIFIED MEMBRANE FELT PLIES VENT THRU ROOF DETAIL NOTE: CPC SECTION NO. 995.2. WHERE VENT PIPE CONNECTS TO HORIZONTAL DRAINAGE PIPE, THE VENT PIPE SHALL HAVE IT'S INVERT TAKEN OFF ABOVE THE DRAINAGE CENTERLINE OF SUCH PIPE DOWNSTREAM OF THE TRAP BEING SERVED.
F. DOMESTIC HOT WAITE EQUIPMENT This table is used to demonstrate companies with monidatory analyses requirements in \$110.1 and \$110.2 for high-rise residencial and hatelimoted occupancies, compliance with prospective requirement in \$130.0 [26] and each on the demonstrated and with \$150.2 for additions and alternation stages. Company France of Company France of Stage (1) (2016) and one of the demonstrated and with \$150.2 for additions and alternation stages. Company France of Company Fra	Project Address	2. ALL PLIES SET IN BITUMEN. SEE ARCHITECTURAL SPECIFICATION FOR SURFACING. MODIFIED MEMBRANE FLASHING PLY 6" MIN. ON FIELD BASE FLASHING PLY 6" MIN. ON FIELD MODIFIED MEMBRANE FELT PLIES VENT THRU ROOF DETAIL NOTE: CPC SECTION NO. 905.2. WHERE VENT PIPE CONNECTS TO HORIZONTAL DRAINAGE PIPE, THE VENT PIPE SHALL HAVE IT'S INVERT TAKEN OFF ABOVE THE DRAINAGE CENTERLINE OF SUCH PIPE DOWNSTREAM OF THE TRAP BEING SERVED. FINISH FLOOR 6" SLAB 1/2" TYPE "K"
Exponents FOUNDER EQUIPMENT This middle superior and exposure compliance with investigate people of repulsements in \$1,000, and \$1,000. For high-five predictional of specific predictions are specified representation \$1,000. For exposure comments are \$1,000. For exposure comment	Project Address: 100 NO COLOR DESIGN PROPERTY 100 NO COL	2. ALL PLIES SET IN BITUMEN. SEE ARCHITECTURAL SPECIFICATION FOR SURFACING. MODIFIED MEMBRANE FLASHING PLY, 9° MIN. ON FIELD BASE FLASHING PLY 6° MIN. ON FIELD MODIFIED MEMBRANE FELT PLIES VENT THRU ROOF DETAIL NOTE: CONNECTS TO HORIZONTAL DRAINAGE PIPE, THE VENT PIPE SHALL HAVE IT'S INVERT TAKEN OFF ABOVE THE DRAINAGE CENTERLINE OF SUCH PIPE DOWNSTREAM OF THE TRAP BEING SERVED. BECTION VIEW A

Registration Number:

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Version: 2019.1.003

Schema Version: rev 20200601

Registration Provider: Energy Code Ace

Report Generated: 2022-05-18 15:16:22

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Version: 2019.1.003

Schema Version: rev 20200601



2600 TENTH STREET, SUITE 700 BERKELEY, CA 94710-2597 510-450-1999 P

RENOVATION POOL EYBEE O

FINISHED WALL

SEE PLAN FOR

STUD WALL

CONTINUATION

2" VENT UP IN STUD WALL UNLESS OTHERWISE NOTED

14" MINIMUM CLEARANCE

OUTSIDE FACE TO OUTSIDE FACE OF STUD WALLS

> —4" NO-HUB COMBINATIO WYE & 1/8 BEND

- HUSKY SD 4000 NO HUB

FIXTURE SCHEDULE FOR

FURTHER INFORMATION.

SCALE NONE 2

- RISER LENGTH AS

REQUIRED

DIRECTION

OF FLOW

— S.O.V. (TYPICAL)

UNION (TYPICAL)

FLUE THRU ROOF

REFER TO DETAIL:

SCALE NONE

FLUSH VALVE ----

WALL HUNG WATER CLOSET DETAIL

PROVIDE WCO WHERE SHOWN ON PLAN, AND ON SANITARY

WASTE BRANCHES NOT SERVED WITH A FLOOR CLEANOUT: LOCATED ABOVE FIXTURE FLOOR RIM WITHIN 4'-0" OF FLOOR.

CONSULT LOCAL CODES FOR OTHER WCO REQUIREMENTS.

WALL CLEAN-OUT DETAIL

WATER HEATER DETAIL

____ METAL BESTOS FLUE CAP

ROOF FLASHING JACK

SEE SPECIFICATIONS

FOR ROOF CONSTR. — SEE ARCH. DRWGS

SEE PLANS FOR FLUE SIZE

— SEALANT

— 4LB. LEAD JACK

ROOF (SEE STRUCTURAL

FINISHED WALL

SEE PLAN FOR

—STUD WALL

✓METAL STUD

HUSKY SD 4000 NO-HUB COUPLING (TYPICAL)

2" NO-HUB SHORT SWEEP

- BACKFILL & COMPACT

W/ CLEAN EARTH

SURROUNDING EXCAVATION

SCALE NONE 5

—2" NO-HUB P-TRAP

CONTINUATION

2" NO-HUB PIPE-

FLOOR DRAIN DETAIL

Registration Provider: Energy Code Ace

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CONTINUATION

—2" VENT UP IN STUD WALL

UNLESS OTHERWISE NOTED

ROOF CEMENT

DRAWINGS)

- VENT PIPE

-----DRAWBAND

— COORDINATE WITH ROOFER

FINISH FLOOR

W/ CLEAN EARTH

SEE PLAN FOR

SCALE NONE 6

SCALE NONE 6

CONTINUATION

4" NO-HUB PIPE —

COMPOUND

BACKFILL & COMPACT

PROVIDE SCREWED ——— COUNTER-SINK BRONZE PLUG FOR CLEANOUT TEE WITH TAPPED THREAD & TEE JOINT

INSTALL ESCUTCHEON —

LONG SWEEP AT END OF LINE —

NOTES:

EXISTING HOT WATER & -

RE-ROUTE EXISTING ——

TEMPERATURE & PRESSURE

RELIEF TO SERVICE SINK OR NEAREST APPROVED RECEPTOR.

SECURE BACKING PLATE TO WALL-

WITH 3/8" HILTI KWIK BOLT II (ICBO

3/8"Øx3"HEX LAG BOLT AT WALLS

NEW "SPACEMAKER" MODEL E-100

NOTE:
WATER HEATER STRAPPING SHALL BE
AT POINTS WITHIN THE UPPER

OF FOUR (4) INCHES SHALL BE

WITH THE STRAPPING.

PER CMC 305.1

MAINTAINED ABOVE THE CONTROLS

SIOUX CHIEF #598-012 HEAVY DUTY 24"X24"X18"HIGH GALV. STEEL STAND.

ONE-THIRD (1/3) AND LOWER ONE-THIRD (1/3) OF ITS VERTICAL DIMENSIONS. AT

THE LOWER POINT, A MINIMUM DISTANCE

#4627) WEDGE ANCHOR WITH 2" MIN. EMBEDMENT AT 16" O.C. FOR

MASONRY WALLS OR STUD

SEISMIC RESTRAINT SYSTEM

(TYP OF 8 PLCS)

COLD WATER LINES

OR COMBINATION WYE AND EIGHTH BEND IN RUN OF LINE.

FINISH FLOOR

PLATE AT CLEANOUT

SURROUNDING EXCAVATION:

STORM COLLAR

F ROHNERT PARK ILF COURSE DRIVE RT PARK, CA 94928 CITY OF RO 1170 GOLF ROHNERT I

LOREN GACHEN C-37926 Rea Note 12/31/23



VANESSA GARRETT P.E. CE84141 CITY ENGINEER

	REVISION SCHEDULE						
	REV	19101	1 SCHEDULE				
NO	DATE	BY	DESCRIPTION				
Λ	5/25/2022		AGENCY PLAN REVIEW				
2	12/02/2022		AGENCY PLAN REVIEW				
DRAWN:			CHECKED:				
DAT	E: 02/25/2	2022	SCALE:				

PROJECT NUMBER: 2010200

PLUMBING DETAILS

NUMBER:

100% CD SUBMITTAL

COUPLING (TYPICAL) SEE PLAN FOR CONTINUATION SCALE NONE PLUMBING WALL OR COLUMN REFER TO FLOOR PLANS REFER TO PLUMBING

GENERAL NOTES

- THE CONTRACTOR SHALL SECURE AND PAY FOR PERMITS AND FEES NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK, INCLUDING ALL CHARGES BY THE LOCAL GOVERNMENT AGENCIES.
- 2. ALL OUTLET LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION.
- THIS CONTRACTOR SHALL SUPPLY POWER TO AND MAKE CONNECTION TO ALL MOTORS AND EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS AS SHOWN ON THE MECHANICAL AND PLUMBING DRAWINGS, INCLUDING ALL FRACTIONAL HORSEPOWER MOTORS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE MECHANICAL AND PLUMBING DRAWINGS FOR DUCTS, LINES AND EQUIPMENT.
- 4. SEE SINGLE LINE DIAGRAM FOR CONDUIT AND CONDUCTOR SIZES, PANELS, MECHANICAL EQUIPMENT, ETC. HOMERUNS TO PANELS MAY NOT BE SHOWN ON PLANS BUT ARE A PART OF THIS CONTRACT.
- 5. UNLESS OTHERWISE NOTED, MOUNTING HEIGHTS INDICATED ON ELECTRICAL OUTLETS ARE FROM FINISHED FLOOR TO CENTER OF OUTLETS.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CUT-OUTS IN TILE OR COUNTER SPLASHES WHERE RECEPTACLES, OUTLETS, ETC., OCCUR.
- NO CONDUIT SHALL BE RUN HORIZONTALLY IN CONCRETE FLOOR SLABS.

THE MECHANICAL AND PLUMBING DRAWINGS.

- 8. ALL WIRING AND ELECTRICAL EQUIPMENT INSTALLED FOR MECHANICAL AND PLUMBING EQUIPMENT SHALL BE IN ACCORDANCE WITH THESE DRAWINGS AND THE WIRING DIAGRAMS OF
- 9. ALL FINAL CONNECTIONS TO OWNER-FURNISHED EQUIPMENT SHALL BE MADE BY THE CONTRACTORS.
- 10. EQUIPMENT ANCHORAGE
 - THE SEISMIC ANCHORAGE OF MECHANICAL AND ELECTRICA EQUIPMENT SHALL CONFORM TO ASCE 1-05 CHAPTER 13 AS MODIFIED BY 2016 CBC SECTION 1613A/1614A. ANCHORAGE DETAILS FOR ROOF/FLOOR MOUNTED EQUIPMENT SHALL BE SHOWN ON PLAN.
- THE CONTRACTOR SHALL VISIT THE SITE INCLUDING SPECIFICALLY ALL AREAS INDICATED ON THE DRAWINGS. HE SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THESE EXISTING CONDITIONS AND BY SUBMITTING A BID ACCEPTS CONDITIONS UNDER WHICH HE WILL BE REQUIRED TO PERFORM HIS WORK.
- 12. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO DO ALL CORING, CUTTING,
 PATCHING AND REFINISHING OF WALLS AND SURFACES WHEREVER IT IS NECESSARY FOR HIM
 TO PENETRATE FOR HIS WORK. ALL OPENINGS MADE SHALL BE SEALED TO MEET THE RATED
 INTEGRITY OF THE PARTICULAR WALL, FLOOR OR CEILING.
- 13. ATTENTION IS CALLED TO THE FACT THAT THE CEILING SYSTEMS FOR THE MOST PART ARE CONSIDERED TO BE INACCESSIBLE. THE CONTRACTOR SHALL STRATEGICALLY LOCATE BOXES, ETC., IN AN ACCESSIBLE CEILING SPACE.
- 14. WHERE EXPOSED CONDUIT IS PERMITTED BY THE ARCHITECT, SUCH CONDUIT SHALL BE PAINTED TO MATCH FINISH OF SURFACE TO WHICH IT IS ATTACHED/SUPPORTED TO.
- 5. INSTALL RACEWAY SYSTEMS AS FOLLOWS:

APPLICABLE CODES.

- A. RIGID GALVANIZED STEEL IN ALL OUTDOOR LOCATIONS AND IN INDOOR LOCATIONS WHERE SUBJECT TO PHYSICAL DAMAGE.
- B. IM.C. OR EM.T. IN ALL INDOOR AREAS.
- C. FLEXIBLE METAL CONDUIT FOR FINAL CONNECTIONS TO LIGHT FIXTURES, MOTORS, VIBRATING ELECTRICAL EQUIPMENT AND HORIZONTAL RUNS IN WOOD STUD WALLS.
- D. USE COMPRESSION TYPE FITTINGS FOR ALL METALLIC CONDUIT.
- E. USE RIGID CONDUIT FOR ALL EMERGENCY CIRCUITS.
- 16. CONDUIT ROUTING INDICATED ON THESE PLANS IS DIAGRAMMATIC. ACTUAL ROUTING OF CONDUITS SHALL BE COORDINATED IN THE FIELD TO AVOID INTERFERENCE WITH OTHER UTILITIES AND TRADES. THE CONTRACTOR SHALL INSTALL ALL CONDUIT, JUNCTION/PULL BOXES, ETC., AS REQUIRED FOR A COMPLETE SYSTEM IN FULL COMPLIANCE WITH ALL
- 18. IDENTIFICATION NAME PLATES FOR BRANCH CIRCUIT PANELS SHALL MATCH THE NOMENCLATURE PROVIDED BY THE OWNER AT THE END OF THE CONTRACT.
- UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBER SHALL BE CUT, DRILLED, NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER.

ELECTRICAL SYMBOL LIST

RIGID STEEL CONDUIT RUN CONCEALED, 3/4" MINIMUM.

CONDUIT STUBBED OUT AND CAPPED. PULL LINE IN PLACE.

CONDUIT RUN WITH TICK MARKS INDICATE QUANTITY OF #12 THHN / T

B-1,3 \uparrow conduit home run to panelboard. Letter and numerals indicates electrical panel and circuit number.

HOMERUN TO DESTINATION AS INDICATED. REFER TO CONDUIT SYMBOL ABOVE.

BRANCH CIRCUIT PANEL, MOUNTING AS SHOWN ON SCHEDULES.

(E) EXISTING TO REMAIN.

2/2"C. WITH 2/C*18 CLASS 2 DATA WIRE PER SWITCH LEG (DIMMING CONTROLS®. QUANTITY OF CROSS TICKS REPRESENT QUANTITY OF SWITCH LEGS WITHIN CONDUIT.

C.O. CONDUIT ONLY.

MOLDED CASE CIRCUIT BREAKER (SINGLE LINE DIAGRAM).

MOUNTED AT +48" TO TOP OF THE BOX. STAINLESS STEEL WALL PLATE.
LEVITON LUMINA RF *ZSSIØ-NOZ. SUPERSCRIPT DENOTES:
RF TYPE SINGLE POLE SWITCH, LETTER AT BOTTOM INDICATES OUTLETS
CONTROLLED.
2 - DOUBLE POLE P - PILOT LIGHT

3 - THREE WAY K - KEY OPERATED 4 - FOUR WAY T - TIMER

NOTE IDENTIFICATION SYMBOL. NUMBER INDICATES NOTE.

LIGHTING FIXTURE IDENTIFICATION SYMBOL. LETTER INDICATES TYPE OF FIXTURE NUMBERAL AT TOP OF HEXAGON INDICATES NUMBER OF FIXTURES REQUIRED. NUMBER AT BOTTOM OF HEXAGON INDICATES MOUNTING HEIGHT FROM FLOOR TO BOTTOM OF FIXTURE. OMMISSION OF MOUNTING HEIGHT INDICATES CEILING MOUNTING.

JUNCTION BOX.

HVAC EQUIPMENT DESIGNATION. SEE MECHANICAL PLANS.

FUSED DISCONNECT SWITCH. HEAVY DUTY TYPE WITH REQUIRED QUANTITY OF DUAL ELEMENT TIME DELAY FUSES. NEMA 3R FOR OUTDOOR USE. AS = SWITCH AMPERE RATING. P = NUMBER OF POLES. AF = FUSE AMPERE RATING.

E4.X DETAIL CALLOUT

DUPLEX RECEPTACLE, FLUSH IN WALL, GROUNDING TYPE (20 AMP, 120V., WALL PLATE TO MATCH DEVICE) MTD. AT +15" TO BOTTOM OF BOX.

DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPTER, FLUSH IN WALL (20 AMP, 120V., WALL PLATE TO MATCH DEVICE) MTD. AT +18" TO BOTTOM OF BOX.

EXISTING EQUIPMENT TO REMAIN.

(EN) EXISTING FIXTURE IN NEW LOCATION.

(R) EXISTING EQUIPMENT TO BE COMPLETELY DISCONNECTED AND REMOVED.

(N) NEW EQUIPMENT.

RR) EXISTING FIXTURE TO BE REMOVED AND RELOCATED.

DEMOLITION NOTES

1. ALL ELECTRICAL EQUIPMENT THAT IS MARKED FOR DELETION, SHALL BE REMOVED COMPLETELY, INCLUDING CONDUIT AND WIRES BACK TO THE POINT OF INTERCEPTION INDICATED ON PLAN.

- 2. WHERE EXISTING EQUIPMENT TO REMAIN IS FED BY EQUIPMENT BEING REMOVED BY WORK UNDER THIS CONTRACT, THE CONTRACTOR SHALL ROUTE NEW CONDUIT, WIRE, ETC., AS REQUIRED TO MAINTAIN THE SUBJECT EQUIPMENT IN OPERATION.
- 3. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO REMOVAL OF EXISTING ELECTRICAL EQUIPMENT AND TURN OVER REMOVED EQUIPMENT THAT THE OWNER REQUESTS, IN AS-FOUND CONDITION. EQUIPMENT THAT IS TO BE TURNED OVER SHALL BE BOXED AND TAGGED TO IDENTIFY THE SPECIFIC EQUIPMENT.
- 4. ALL EXISTING CONDUITS WITHIN PROJECT AREA WHETHER SHOWN ON PLAN OR NOT, SHALL BE A PART OF THIS CONTRACT.
- 5. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO MAINTAIN CONTINUITY OF ALL ELECTRICAL AND COMMUNICATION SYSTEMS, EQUIPMENT, ETC., REMAINING IN OPERATION. MAINTAINING CONTINUITY SHALL CONSIST OF RE-ROUTING CONDUIT, WIRE, ETC., AS REQUIRED TO MAINTAIN THE SUBJECT SERVICES IN OPERATION.
- 6. ALL CIRCUITS SERVING OUTLETS/DEVICES TO BE REMOVED AS PART OF THE SCOPE OF WORK SHALL BE TRACED BACK TO THE SERVING PANEL PRIOR TO DISCONNECTING. IN THE EVENT THAT THE EXISTING CIRCUITS TO BE REMOVED SERVE AN OUTLET/DEVICE REMAINING IN OPERATION THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER AND OBTAIN DIRECTION PRIOR TO PROCEEDING WITH THE WORK.

REFERENCES AND ABBREVIATIONS

DETAIL REFERENCE

(1) KEYNOTE REFERENCE

AFF. ABOVE FINISH FLOOR
U.O.N. UNLESS OTHERWISE NOTED

C.O. CONDUIT ONLY W/PULL ROPE
WP WEATHER PROOF
CU. COPPER

CU. COPPER
ML.O. MAIN LUGS ONLY
E or (E) EXISTING TO REMAIN

EM. EMERGENCY

MCB MAIN CIRCUIT BREAKER
FLA FULL LOAD AMPS
C. CONDUIT

V. VOLTS
A AMPS

GFI GROUND FAULT INTERRUPTER
GND GROUND

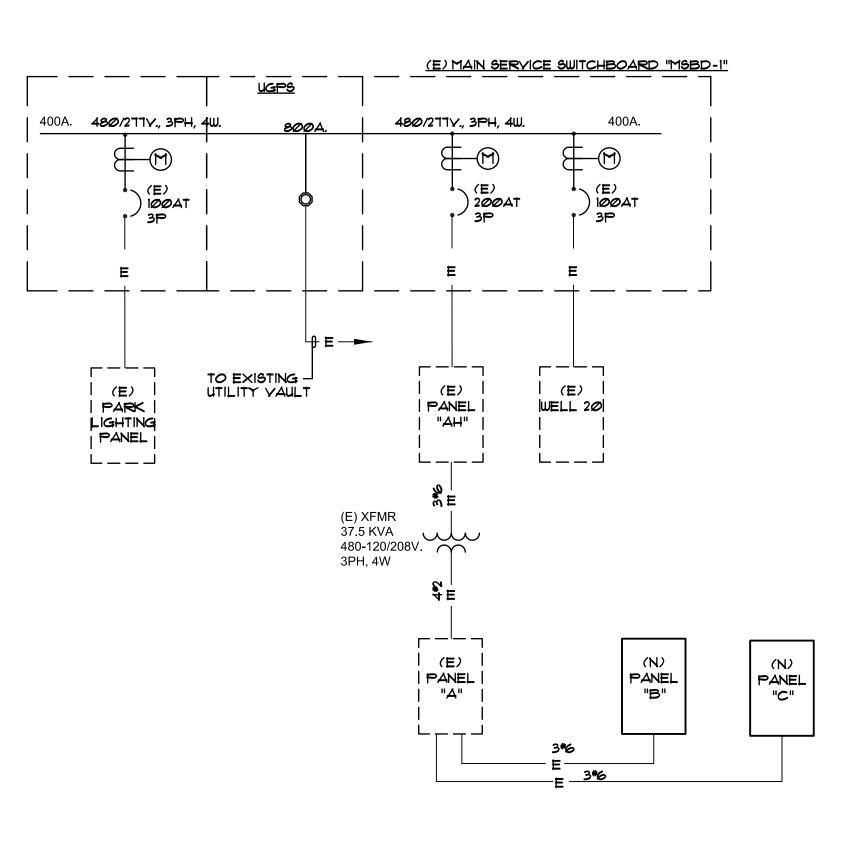
YL. YERIFY LOCATION

A.C. ABOYE COUNTER

N.L. NIGHT LIGHT

	LIGHTING FIXTURE SCHEDULE								
TYPE	MANUFACTURER CATALOG*	LAMP QTY. & TYPE	FIXTURE WATTAGE	VOLTS	REMARKS				
	KENALL LIGHTING MILHAI2-48-F-LG-FA-55C37K- DCC-DY OR APPROVED EQUAL	5858 LUMEN LED 93 LM/W 3700K	55	12Ø-277	IX4 LED FIXTURE. FIXTURE TO BE PROVIDED WITH SURFACE MOUNTING, 3700K/82CRI MIN., 0-10V LED DIMMING DRIVER				
$\overline{\mathbb{Q}}$	KENALL LIGHTING MILHA5-48-F-LG-PP-45T- 27/65K8-ATW-DV OR APPROVED EQUAL	4808 LUMEN LED 105 LM/W 3500K	46	12Ø-277	FIXTURE TO BE PROVIDED WITH SURFACE MOUNTING, 3500K/82CRI MIN., 0-10V LED DIMMING DRIVER				
(C)	KENALL LIGHTING *HADL6-FF-2FW-22C-37K8-M- FW-G-RIG6-120-DIMI OR APPROVED EQUAL	1228 LUMEN LED 51 LM/W 3700K	24	120	6" DOWNLIGHT LED FIXTURE. FIXTURE TO BE PROVIDED WITH 3700K/80 CRI MIN., 0-10V LED DIMMING DRIVER.				
	HUBBELL LIGHTING *LNC2-9L-3K-070-2-1-BLT- 9CP OR APPROVED EQUAL	1927 LUMEN LED 90 LM/W 3000K	21	12Ø	WALLPACK FIXTURE. FIXTURE TO BE PROVIDED WITH 3000K, PROGRAMMABLE OCCUPANCY SENSOR WITH BUILT IN PHOTOCELL.				

SINGLE LINE DIAGRAM



	PANEL "AH" LOAD SUMMAR	: Y
*	EXISTING LOAD	24.IA
	+25% PER CEC 22081	6.14
	NEW LOAD (PANEL B HIGH-LEG)	8.7A
	NEW LOAD (PANEL C HIGH-LEG)	834
	TOTAL	47.2A
*	BASED ON PG&E HIGH DEM FOR PAST 24 MONTHS	AND K

PANEL "A" LOAD SUMMARY

* EXISTING LOAD 55.3A

+25% PER CEC 220.87 13.8A

NEW LOAD 22.0A
(PANEL "B" AND "C")

* BASED ON PG&E HIGH DEMAND KW FOR PAST 24 MONTHS ON SERVICE PANEL "AH".

TOTAL

(N)PANEL "B" SCA: 10 KAIC MOUNT: SURFACE VOLTAGE: 240/120V-3-WIRE BUS SIZE COPPER: 125A ENTRY: BOTTOM LOCATION: JANITOR RM. 103 DESCRIPTION RECEPTACLES SPARE SUB TOTAL VOLT/AMPS: 720 LIGHTING - WOMEN AND MEN RR 2 | 20 | 1 | 13 | | 3 | | 1320 EXTERIOR LIGHTING SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SUB TOTAL VOLT/AMPS: 1320 TOTAL VOLT/AMPS: 2040 TOTAL LCL/PHASE:

2234 VA = 9.31 AVERAGE AMPS

TOTAL VOLT/AMPS: 2370

TOTAL AMPS/PHASE: 20 1

2145 VA

0 VA

89 VA

CONNECTED:

25% OF MTR:

25% OF LCL:

CALCULATED:

(N)PANEL "C"			M	IN BRE	AKER:	M. L.	.O.	SCA:	10 KAI	<u> </u>
VOLTAGE: 240/120V-3-WIRE				BU	IS SIZE			MOUNT:	SURFA	CE
LOCATION: CONCESSION BLDG.				CC	PPER :	125A		ENTRY:	вотто	M
DESCRIPTION	СКТ	BKR	P	LTS	REC	MSC	M⊤R	A-VA	B-VA	AMPS
RECEPT. CONCESSION RM.	1	20	1		5			900		
RECEPT. OFFICE & CLOSET RM.	3	20	1		10				1800	
WATER HEATER	5	20	1			1		180		
SPARE	7	20	1							
SPARE	9	20	1							
SPARE	11	20	1							
SPARE	13	20	1							
SPARE	15	20	1							
SPARE	17	20	1							
SPARE	19	20	1							
SPARE	21	20	1							
SPARE	23	20	1							
				SUB :	TOTAL	. VOLT	'AMPS:	1080	1800	
LIGHTING - CONCESSION & OFFICE	2	20	1	8		2		1148		
EXTERIOR LIGHTING	4	20	1	5					370	
SPARE	6	20	1							
SPARE	8	20	1							
SPARE	10	20	1							
SPARE	12	20	1							
SPARE	14	20	1							
SPARE	16	20	1							
SPARE	18	20	1							
SPARE	20	20	1							
SPARE	22	20	1							
SPARE	24	20	1							
				SUB	TOTAL	VOLT/	'AMPS:		370	
				•	TOTAL	VOLT	'AMPS:		2170	
					TOTA	L LCL/F	HASE		93	
CONNECTED: 439	8 VA				TOTAL	VOLT	'AMPS:		2263	
	AV C			T	OTAL	AMPS/F	HASE	21	19	
	5 VA									
CALCULATED: 4492	2 VA	=	1	8.72	AVEF	RAGEA	MPS			

(E)PANEL "A"			M	AIN BRE	AKER:	100A	١.	SCA:	10 KAIC	;	
VOLTAGE: 120/208V-4-WIRE				BU	IS SIZE			MOUNT:	SURFA	CE	
LOCATION: EQUIPMENT ROOM				CC	PPER :	225A	١	ENTRY:	ВОТТО	M	
DESCRIPTION	СКТ	BKR	Р	LTS	REC	MSC	MTR	A-VA	B-VA	C-VA	AMPS
RECEPTS	1	20	1								
VEND. MACHINE	3	20	1								
PUMP RM LIGHTS	5	20	1								
CONTROL POWER VIA MAIN PUMP	7	20	2								
W/CKT. 7	9	-	-								
PUMP RM LIGHTS	11	20	1								
PANEL B	13	50	2					2370			
W/CKT. 13	15	-	-						131		
HEATER	17	20	1								
MAIN PUMP	19	15	1								
ANALYZER POWER	21	15	1								
POOL LIGHT	23	30	2								
W/CKT. 23	25	-	-								
MAIN CL2	27	20	2								
W/CKT. 27	29	-	1-								
SPARE	31	30	3								
W/CKT. 31	33	-	-								
W/CKT. 31	35	-	-								
				SUB	TOTAL	VOLT/	'AMPS:	2370	131.25	0	
EAVE TIME CLOCK	2	20	1								
CL2 ALARM	4	20	1								
HEATER	6	20	1								
STORE ROOM LIGHTS	8	20	1								
PANEL C	10	50	2						2515		
W/CKT. 10	12	-	<u> -</u>							2263	
FAN	14	20	1								
SPARE	16	20	1								
CHEMICAL FAN	18	20	2								
W/CKT. 18	20	-	<u> -</u>								
TRANSFORMER	22	20	1								
POOL VAC	24		1								
CO2 PUMP AND CONTROL		20	3								
W/CKT. 26	28	-	1-								
W/CKT. 26	30	-	1-								
MAIN CIRCUIT BREAKER	32	100	3								
W/CKT. 32	34	-	1-								
W/CKT. 32	36	-	<u> </u> -								
	1		1	SUB	TOTAL	VOLT/	'AMPS:	0	2515	2263	
					TOTAL				2646.3	2263	1
					TOTAL				0	0	1
CONNECTED: 7278.8											
) VA				OTAL A				22	19	1
) VA			J	♥173 E 7	0/1					J
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* = INDICATES EXISTING LOAD TO REMAIN. (LOADS FROM AS-BUILTS)

A - INDICATES NEW LOAD ON EXISTING CIRCUIT BREAKER

 \triangle = Indicates New Load on Existing Circuit Breaker.

BERKELEY
2600 TENTH STREET, SUITE 700
BERKELEY, CA 94710-2597

600 TENTH STREET, SUITE BERKELEY, CA 94710-2597 510-450-1999 P

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OF ROHNERT PARK

CITY OF 1170 GO ROHNEF





VANESSA GARRETT P.E. CE84141 DATE CITY ENGINEER

	REVISION SCHEDULE							
NO	DATE	BY	DESCRIPTION					
Λ	5/25/2022		AGENCY PLAN REVIEW					
<u>^</u> 2\	12/02/2022		AGENCY PLAN REVIEW					

DRAWN: CHECKED:

DATE: 02/25/2022 SCALE:

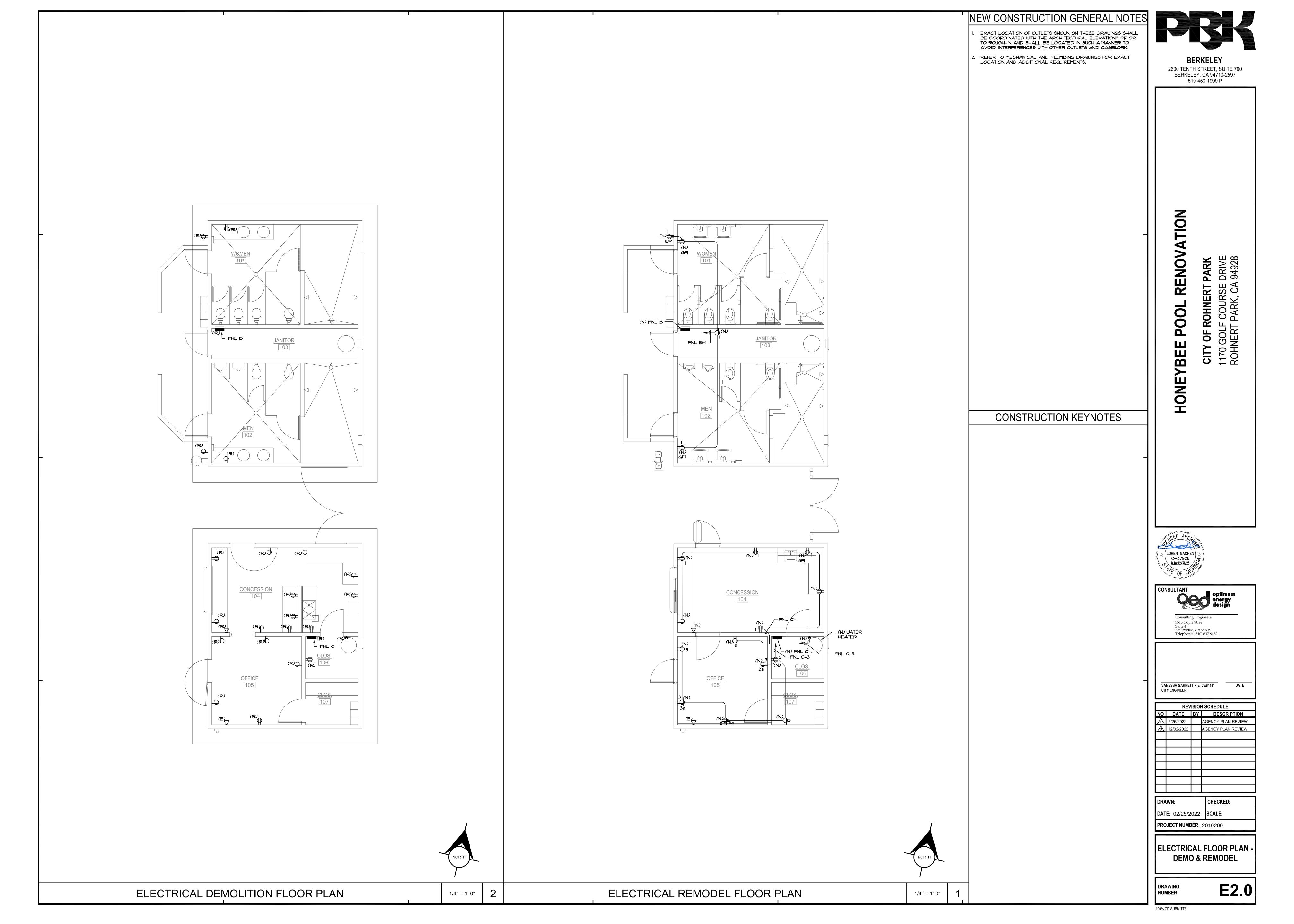
PROJECT NUMBER: 2010200

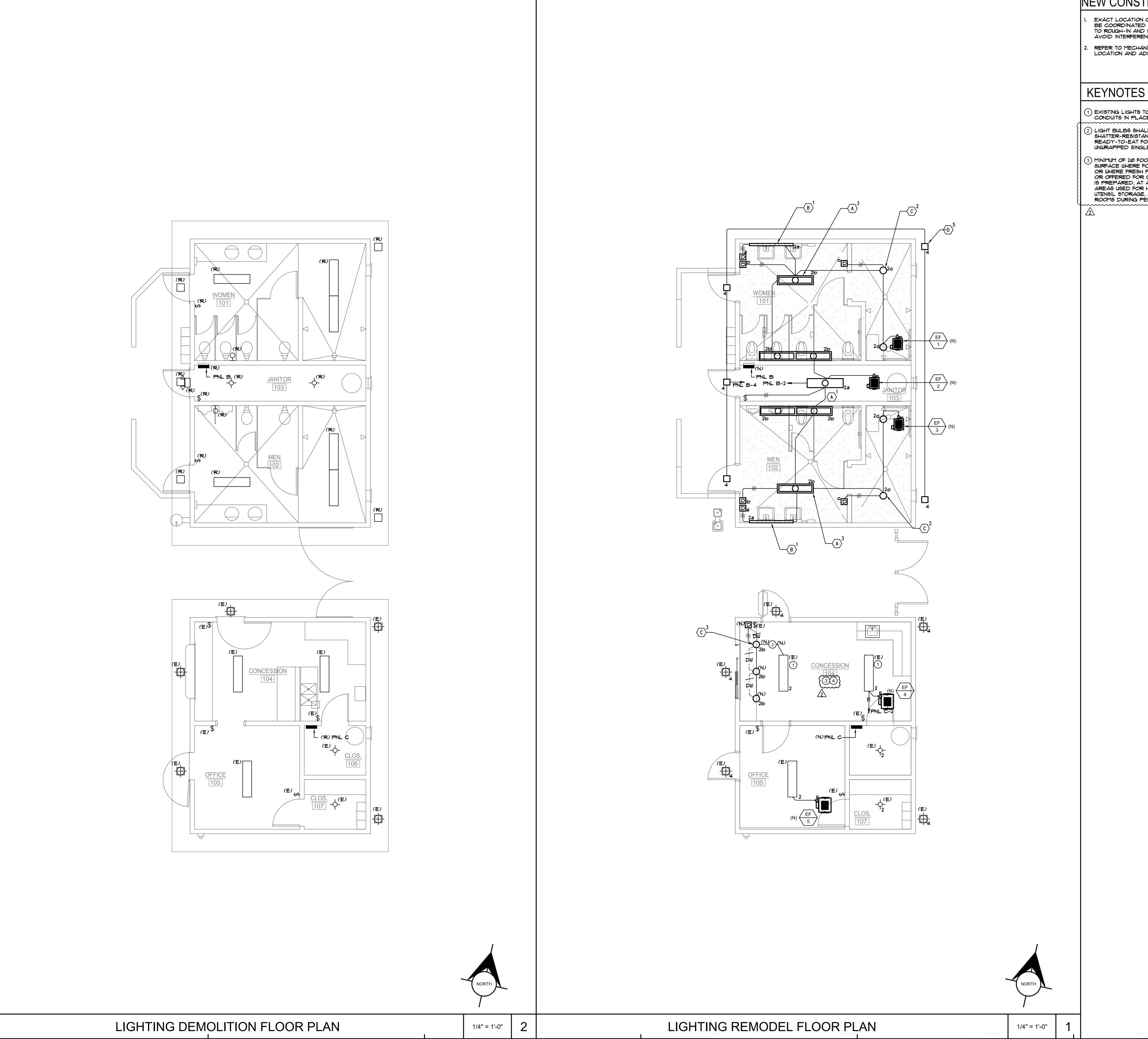
ELECTRICAL GENERAL NOTES & LEGENDS

DRAWING NUMBER:

100% CD SUBMITTAL

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NEW CONSTRUCTION GENERAL NOTES

EXACT LOCATION OF OUTLETS SHOWN ON THESE DRAWINGS SHALL BE COORDINATED WITH THE ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN AND SHALL BE LOCATED IN SUCH A MANNER TO AVOID INTERFERENCES WITH OTHER OUTLETS AND CASEWORK.

REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATION AND ADDITIONAL REQUIREMENTS.



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1) EXISTING LIGHTS TO REMAIN. CONTRACTOR TO PROTECT EXISTING CONDUITS IN PLACE.

2) LIGHT BULBS SHALL BE SHIELDED, COATED, OR OTHERWISE SHATTER-RESISTANT IN AREAS WHERE THERE IS NONPREPACKAGED READY-TO-EAT FOOD, CLEAN EQUIPMENT, UTENSILS, LINENS, OR UNWRAPPED SINGLE-USE ARTICLES.

MINIMUM OF 20 FOOT-CANDLES OF LIGHT IS PROVIDED AT A SURFACE WHERE FOOD IS PROVIDED FOR CONSUMER SELF-SERVICE OR WHERE FRESH PRODUCE OR PREPACKAGED FOODS ARE SOLD OR OFFERED FOR CONSUMPTION, IN SERVICE STATIONS WHERE FOOD IS PREPARED, AT A DISTANCE OF 30 INCHES ABOVE THE FLOOR IN AREAS USED FOR HANDWASHING, WAREWASHING, AN EQUIPMENT AND UTENSIL STORAGE, AND IN TOILET ROOMS, AND IN ALL AREAS AND ROOMS DURING PERIODS OF CLEANING.

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Suite 4 Emeryville, CA 94608 Telephone: (510) 837-9182

VANESSA GARRETT P.E. CE84141 CITY ENGINEER

	REVISION SCHEDULE							
NO	DATE	BY	DESCRIPTION					
\bigwedge	5/25/2022		AGENCY PLAN REVIEW					
2	12/02/2022		AGENCY PLAN REVIEW					

DATE: 02/25/2022 **SCALE**: PROJECT NUMBER: 2010200

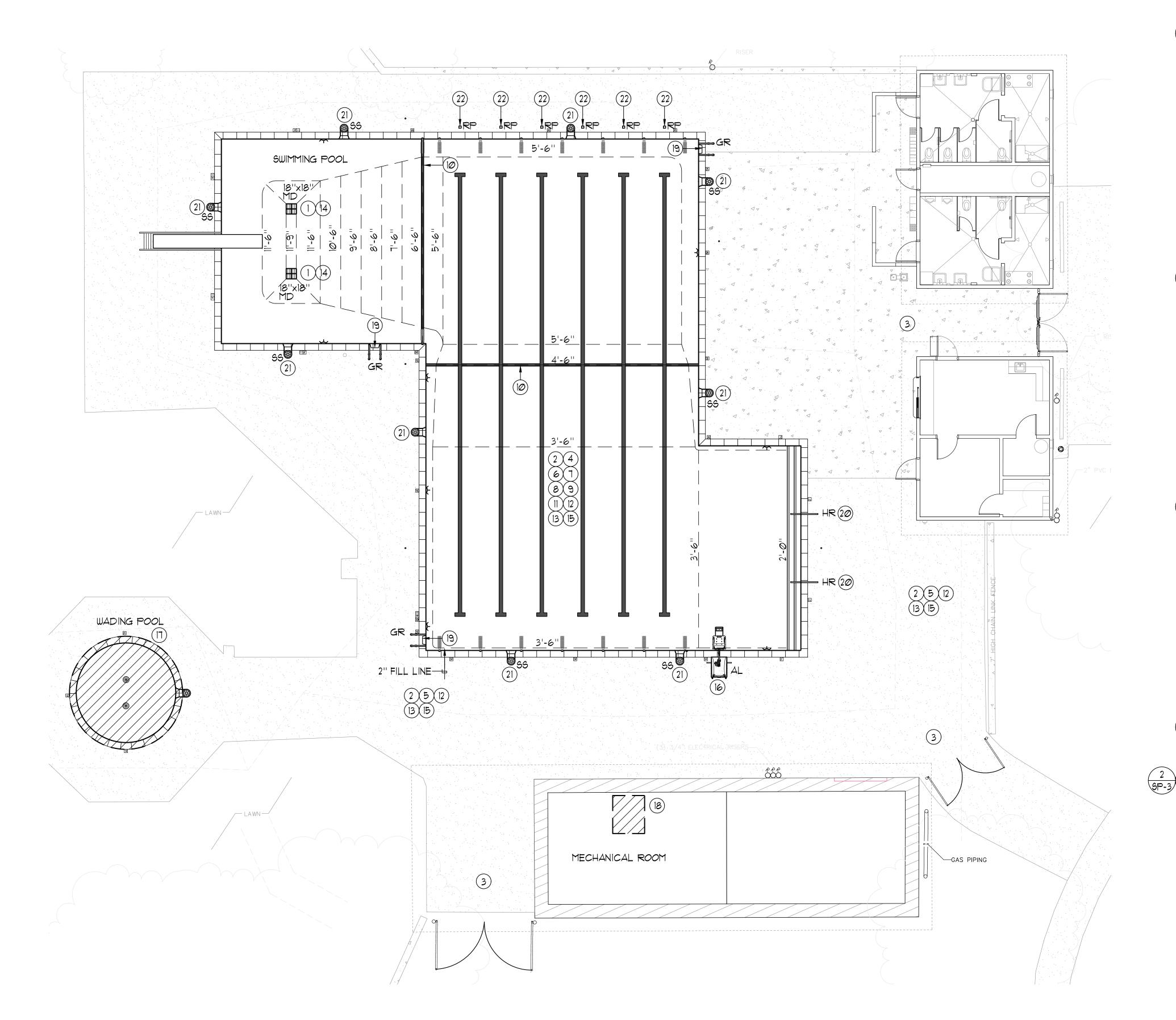
LIGHTING FLOOR PLAN -DEMO & REMODEL

DRAWING NUMBER:

100% CD SUBMITTAL

(N) =

POOL AND EQUIPMENT DEMOLITION



SWIMMING POOL DATA

 SURFACE AREA
 =
 4,350 SQ. FT.

 PERIMETER
 =
 320 FT.

 DEPTHS
 =
 2'-0" TO 11'-6"

 VOLUME
 =
 152,000 GAL.

 6 HR TURNOVER
 =
 422 GPM

DEMOLITION/CONSTRUCTION NOTES

- (1) CARE IS TO BE TAKEN DURING POOL DRAIN DOWN, TO RELIEVE ANY HYDROSTATIC PRESSURE THROUGH EXISTING HYDROSTATIC RELIEF VALVES AND DRAINING THE POOL SLOWLY.
- 2) THE CONTRACTOR SHALL COORDINATE DEMOLITION WITH OTHER TRADES, AND SHALL PROTECT ALL EXISTING WORK, BUILDINGS, UTILITIES, ETC. TO REMAIN AS REQUIRED FOR RENOVATION OF SWIMMING POOL AND COMPLETE REMOVAL OF WADING POOL.
- (3) COORDINATE INGRESS/EGRESS AND HAUL ROUTES WITH THE OWNER PRIOR TO START OF WORK
- 4) POOL PLAN VIEWS AND SECTIONS ARE SHOWN FOR CONTRACTOR INFORMATION AND ASSISTANCE. THE CONTRACTOR IS RESPONSIBLE FOR INDIVIDUAL SQUARE FOOTAGE TAKE-OFFS AND ESTIMATIONS WITH REGARD TO DEMOLITION, PREPARATION, AS WELL AS MEANS AND METHODS OF CONSTRUCTION. CONTRACTOR SHALL VISIT THE SITE AS REQUIRED TO ACCOMPLISH THE WORK, AND TO BECOME FAMILIAR WITH SCOPE AND SERVICES OF WORK REQUIRED.
- 5) COORDINATE PROPOSED CONTRACTOR STAGING AREA WITH THE OWNER PRIOR TO CONSTRUCTION. PROVIDE TEMPORARY PHONE, TOILET(S), FENCING, GATES, ETC. AS REQUIRED.
- REMOVE EXISTING POOL PLASTER FINISH, RACING LANE LINE TILE, TARGET TILE, WATERLINE TILE AND STEP TRIM TILE DOWN TO ORIGINAL SOUND CONCRETE/SHOTCRETE. ANY CRACKS LARGE ENOUGH TO INSERT THE EDGE OF A DIME INTO, SHALL BE CHIPPED OUT TO A MINIMUM OF 34"x34" AND THEN FILLED FLUSH WITH NON-SHRINK GROUT. ALL EXPOSED REBAR, RUST SPOTS, ETC. SHALL BE BUSHED DOWN 11/2" BELOW FINISH SURFACE, ZINC COATED AND FILLED FLUSH WITH NON-SHRINK GROUT. ANY OTHER IMPERFECTIONS IN THE POOL SHELL SHALL BE REPAIRED PRIOR TO INSTALLING NEW TILED LANE LINES, END WALL TARGETS, DEPTH MARKER TILE AND PRIOR TO NEW WHITE PLASTER INSTALLATION.
- 1) PROVIDE NEW SWIMMING POOL WATER LINE TILE, LANE LINE TILE, DEPTH MARKER TILE, ETC. PER SPECIFICATIONS. DEPTH MARKERS SHALL BE LOCATED AT MAXIMUM 25'-Ø'' O.C. AROUND ENTIRE POOL PERIMETER AND SHALL HAVE MINIMUM 4" TALL NUMBERS AND LETTERS. PROVIDE NEW INTERNATIONAL 'NO DIVING' TILES AT ALL DEPTH MARKER LOCATIONS 6'-Ø" DEPTH OR SHALLOWER ON DECK DEPTH MARKERS.
- 8 REPLACE ANY DAMAGED OR MISSING POOL FITTINGS, ROPE ANCHORS, ETC. LOST DURING DEMOLITION/CONSTRUCTION AS REQUIRED.
- (9) REPLACE ANY DAMAGED OR MISSING WALL INLET AND REPLACE FLOOR INLET COVER PLATES (IF APPLICABLE), AND ANY DAMAGED INLETS COMPLETELY PER SPECIFICATIONS.
- (IO) REMOVE EXISTING 4'-6" AND 6'-6" WATER DEPTH TILE MARKERS (4" LINE) AND PROVIDE NEW 'DAL-TILE' #D621 NAUTICAL BLUE.
- 11) THE CONTRACTOR SHALL INSURE THAT ALL SURFACES ARE PREPARED TO A MINIMUM 1/4" AMPLITUDE TO RECEIVE PLASTER FINISH. WEATHER CONDITIONS SHALL BECOME A CRITICAL PART OF WORK AND SHALL BE TAKEN INTO CONSIDERATION AT THE TIME OF PLASTER APPLICATION.

 (12) THE CONTRACTOR SHALL PROVIDE A SUFFICIENT NUMBER OF WORKERS TO INSURE THAT THE ENTIRE
- (12) THE CONTRACTOR SHALL PROVIDE A SUFFICIENT NUMBER OF WORKERS TO INSURE THAT THE ENTIRE POOL CAN BE PLASTERED IN A SINGLE DAY OR SHALL PROVIDE CONTINUAL MISTING OF PLASTERED SURFACES TO INSURE THAT PLASTER IS NOT EXPOSED TO THE AIR FOR A PERIOD OF TIME WHICH WOULD CAUSE DAMAGE IN ANY WAY.
- THE OWNER SHALL IDENTIFY THE SWIMMING POOL FILL WATER SOURCE FROM CLOSEST FIRE HYDRANT AND SHALL PAY FOR THE WATER TO FILL THE POOL. THE CONTRACTOR IS RESPONSIBLE FOR FIRE HOSE, HOSES, FILLING AND PROTECTION OF PLASTER SURFACES. FILL SOURCE SHALL BE BLOWN-OFF INITIALLY TO PROVIDE A CLEAN DOMESTIC WATER SOURCE. THE CONTRACTOR SHALL PROVIDE CONTINUOUS FILL UNTIL THE WATER IS AT OPERATIONAL LEVEL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING AND BALANCING OF THE POOL WATER FOR A PERIOD OF NOT LESS THAN FOURTEEN (14) DAYS AFTER PLASTER. THE CONTRACTOR SHALL COORDINATE HIS EFFORTS WITH OWNERS STAFF TO PROVIDE INSTRUCTION AND TRAINING IN PROPER OPERATION OF POOL IN CONJUNCTION WITH NEW PLASTER SURFACES.
- THE CONTRACTOR SHALL REMOVE EXISTING POOL MAIN DRAIN FRAMES AND GRATES AND PROVIDE NEW 18"X18" MAIN DRAIN FRAMES AND GRATES PER THE SPECIFICATIONS AND PROVIDE VGBA CERTIFICATION TO THE OWNER AND HEALTH DEPARTMENT.
 - CONTRACTOR IS TO PHOTOGRAPH AND DOCUMENT ON A PLAN ANY AND ALL EXISTING DAMAGED ITEMS/SURFACES. FINISHES IN AND IMMEDIATELY AROUND THE WORK AREA AND ALONG ALL WORK PATHS FROM STAGING AREA PRIOR TO THE START OF WORK. CONTRACTOR IS TO SITE WALK ALL EXISTING DAMAGED AREAS WITH THE OWNER AND PROVIDE A COPY OF THE PHOTOGRAPHS AND DOCUMENTATION BEFORE WORK BEGINS. FAILURE TO PROVIDE THIS INFORMATION REPRESENTS ACCEPTANCE BY THE CONTRACTOR THAT ALL EXISTING SURROUNDING FINISHES (CONCRETE, AC PAVING, FLOORING, ETC.) AND ALL GATES, DOORS, PATHWAYS, ETC. ARE UNDAMAGED AND IN CLEAN AND FUNCTIONING CONDITION, AND CONTRACTOR ACCEPTS THE RESPONSIBILITY TO MAINTAIN AND CORRECT ANY DAMAGE LATER FOUND BY THE OWNER DURING CONSTRUCTION PERIOD IN THESE AREAS AT NO EXPENSE TO THE OWNER.
 - (16) RELOCATE EXISTING ACCESSIBLE LIFT PER SP-1.

PLANS AND SPECIFICATIONS. BOND PER CODE.

- DEMOLISH AND REMOVE EXISTING WADING POOL TO EXTENTS SHOWN ON PLANS, BACKFILL AND COMPACT SOIL PER GEOTECHNICAL REPORT, SEE ARCH PLANS FOR NEW DECKING AND LAYOUT.
- (18) REMOVE ALL (E) WADING POOL MECHANICAL EQUIPMENT AND ASSOCIATED PIPING IN MECHANICAL ROOM. CAP OFF AND ABANDON ALL PIPE STUBS WITHIN 12" OF FLOOR/WALL.
- (19) REMOVE ALL EXISTING GRABRAIL STEPS. PRIOR TO REPLASTER ALL RUST SPOTS SHALL BE EXPOSED, BUSHED DOWN 1½" BELOW FINISHED SURFACE, ZINC COATED AND FILLED FLUSH WITH NON-SHRINK GROUT. THEN NEW CYCOLAC SEMI-RECESSED STEPS SHALL BE INSTALLED WITH NON-SHRINK GROUT. REMOVE AND PROTECT ALL (E) GRABRAILS DURING CONSTRUCTION. CLEAN AND POLISH (E) GRABRAILS WITH 600 GRIT POLISH AND REINSTALL AFTER WORK HAS BEEN COMPLETED.

 (20) REMOVE AND PROTECT EXISTING HANDRAILS DURING CONSTRUCTION. CLEAN AND POLISH WITH 600 GRIT POLISH AND REINSTALL AFTER WORK HAS BEEN COMPLETED. PROVIDE (2) NEW HANDRAILS PER
- (21) CLEAN AND REPAIR ANY SURFACE SKIMMER WEIRS AND BASKETS WITH NEW PARTS TO PROVIDE PROPER SKIMMING OF SWIMMING POOL.
- THE CONTRACTOR SHALL SAW CUT AND REMOVE EXISTING RACING PLATFORM ANCHORS COMPLETE AND FILL IN WITH NEW NON-SHRINK GROUT, FIELD VERIFY ALL CONDITIONS AND SAWCUT TO MINIMUM DECK DISTURBANCE.

EXISTING PO	OL EQUIPMENT	SCHEDULE
EQUIPMENT	MANUFACTURER/BRAND	MODEL/DESCRIPTION
HEATER	RAYPAK	XTHERM MODEL PT-1505A, TYPE P
FILTER (2)	PENTAIR/STARK	MODEL R27 HIGHRATE SAND FILTER, 344 GPM PER FILTER. FILTRATION AREA: 17.2 SQ. FT.
CIRCULATION PUMP	PENTAIR	C-SERIES, CHK-100, 10 HP
FLOW METER	SIGNET	+GF+ PN-3855Ø1
ACID FEED PUMP	BLUE/WHITE	#A1A4-7T PERISTALTIC METERING PUMP
CHLORINE FEED PUMP	BLUE-WHITE	*A2A24-SNEE PERISTALTIC METERING PUMP
WATER CHEMISTRY CONTROLLER	HAYWARD	CAT 600 CHEMICAL CONTROLLER



BERKELEY2600 TENTH STREET, SUITE 700
BERKELEY, CA 94710-2597
510-450-1999 P

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CITY OF ROHNER 1170 GOLF COURS ROHNERT PARK, C





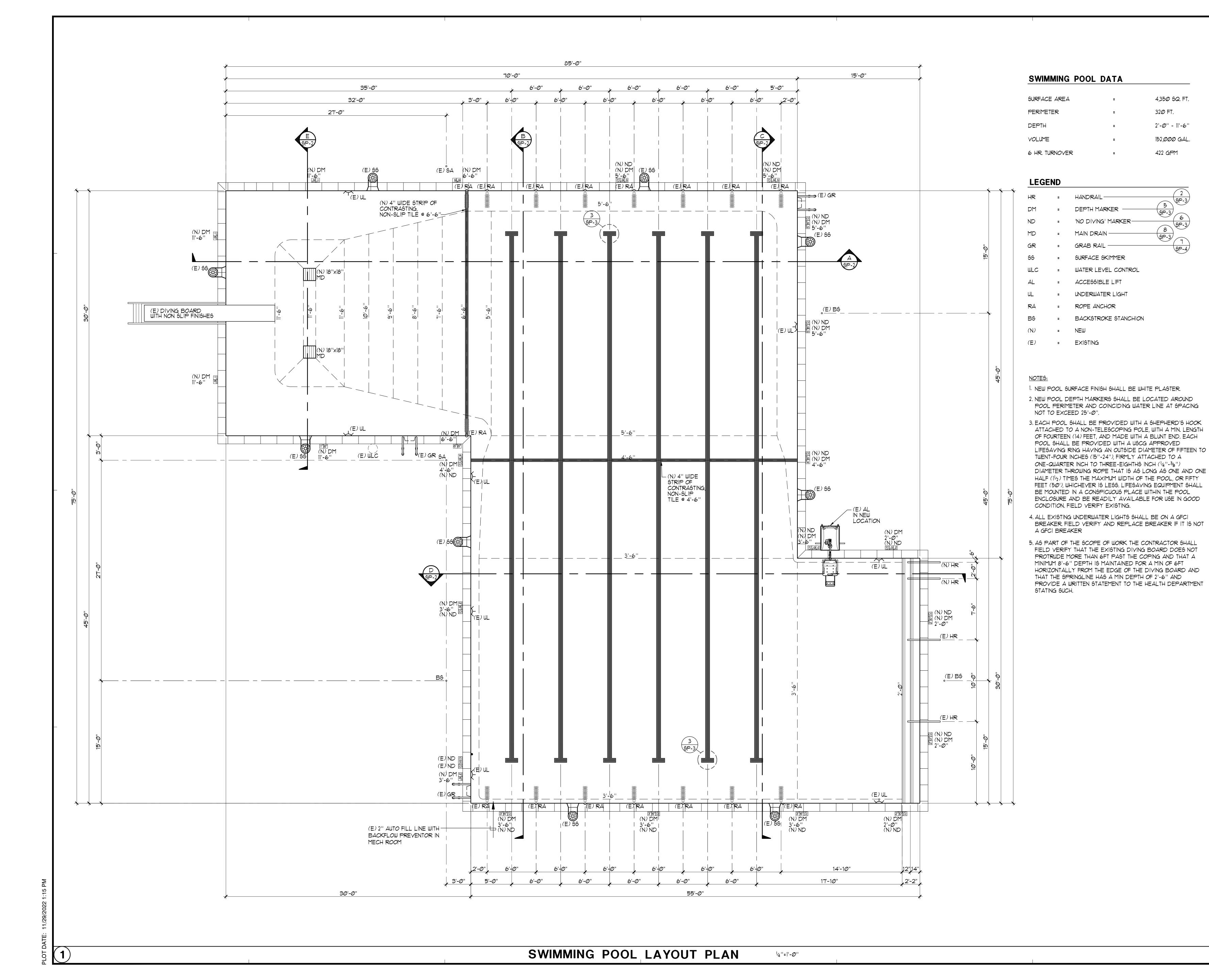
VANESSA GARRETT P.E. CE84141
CITY ENGINEER

	REVISION SCHEDULE								
NO	DATE	BY	DESCRIPTION						
Λ	11/03/2022		AGENCY PLAN REVIEW						
2	12/02/2022		AGENCY PLAN REVIEW						

DRAWN:	NMV	CHECK	ED:	GSF
DATE: 02/25/2	2022	SCALE:	AS	NOTED
PROJECT NUM	BER : 2	010200		

SWIMMING POOL/ WADING POOL DEMOLITION PLAN

DRAWING NUMBER:





BERKELEY 2600 TENTH STREET, SUITE 700

4,350 SQ. FT.

2'-Ø'' - 11'-6''

152,000 GAL.

422 GPM

32Ø FT.

BERKELEY, CA 94710-2597 510-450-1999 P

RENOVATION

HONE

CONSULTANT 2226 Faraday Ave. Carlsbad, CA 92008 AquaticDesignGroup.com 760.438.8400

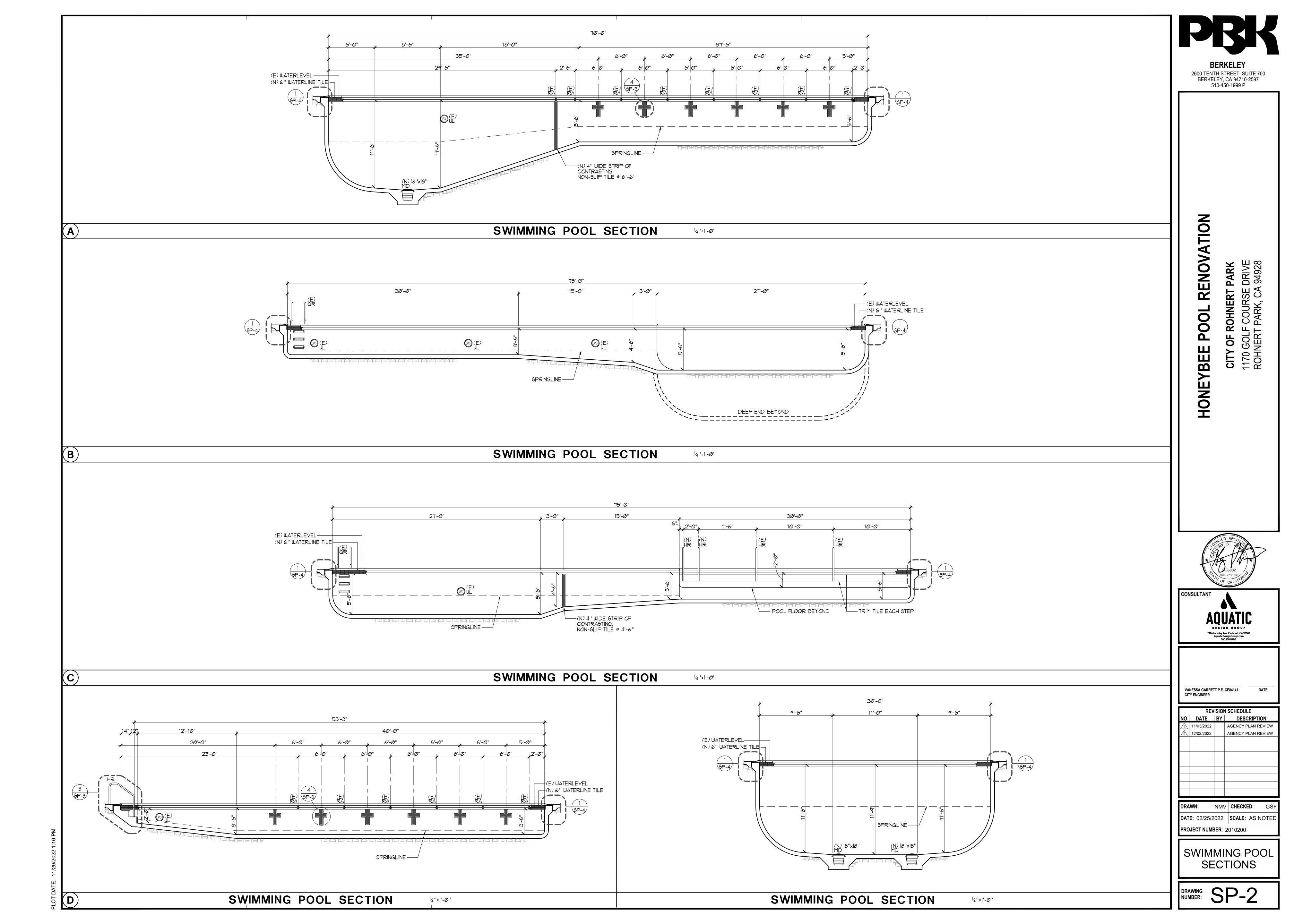
VANESSA GARRETT P.E. CE84141 CITY ENGINEER

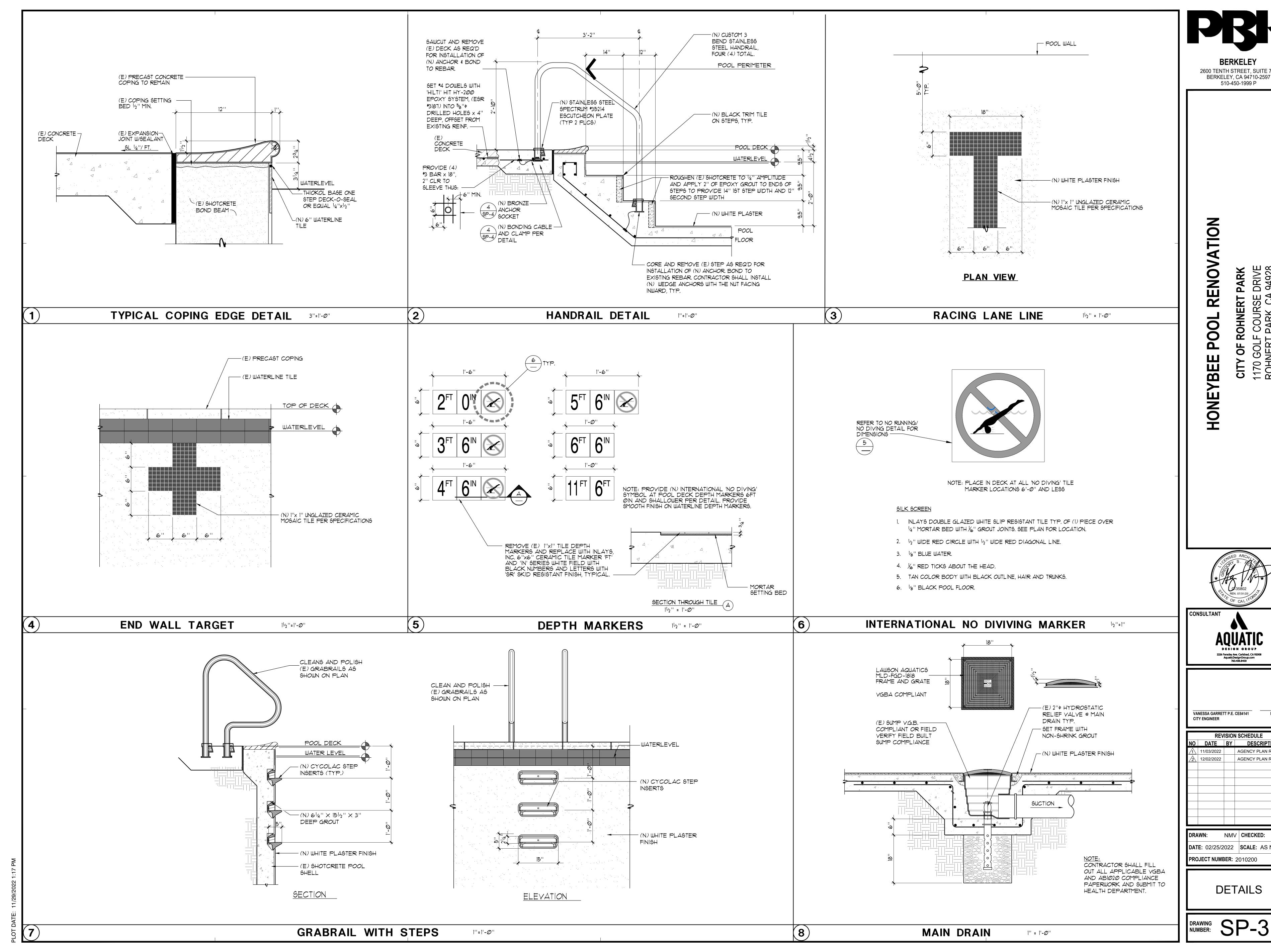
	REVISION SCHEDULE							
NO	DATE	BY	DESCRIPTION					
1	11/03/2022		AGENCY PLAN REVIEW					
2	12/02/2022		AGENCY PLAN REVIEW					

DATE: 02/25/2022 **SCALE**: AS NOTED PROJECT NUMBER: 2010200

SWIMMING POOL LAYOUT PLAN

DRAWING SP-1





2600 TENTH STREET, SUITE 700 BERKELEY, CA 94710-2597 510-450-1999 P

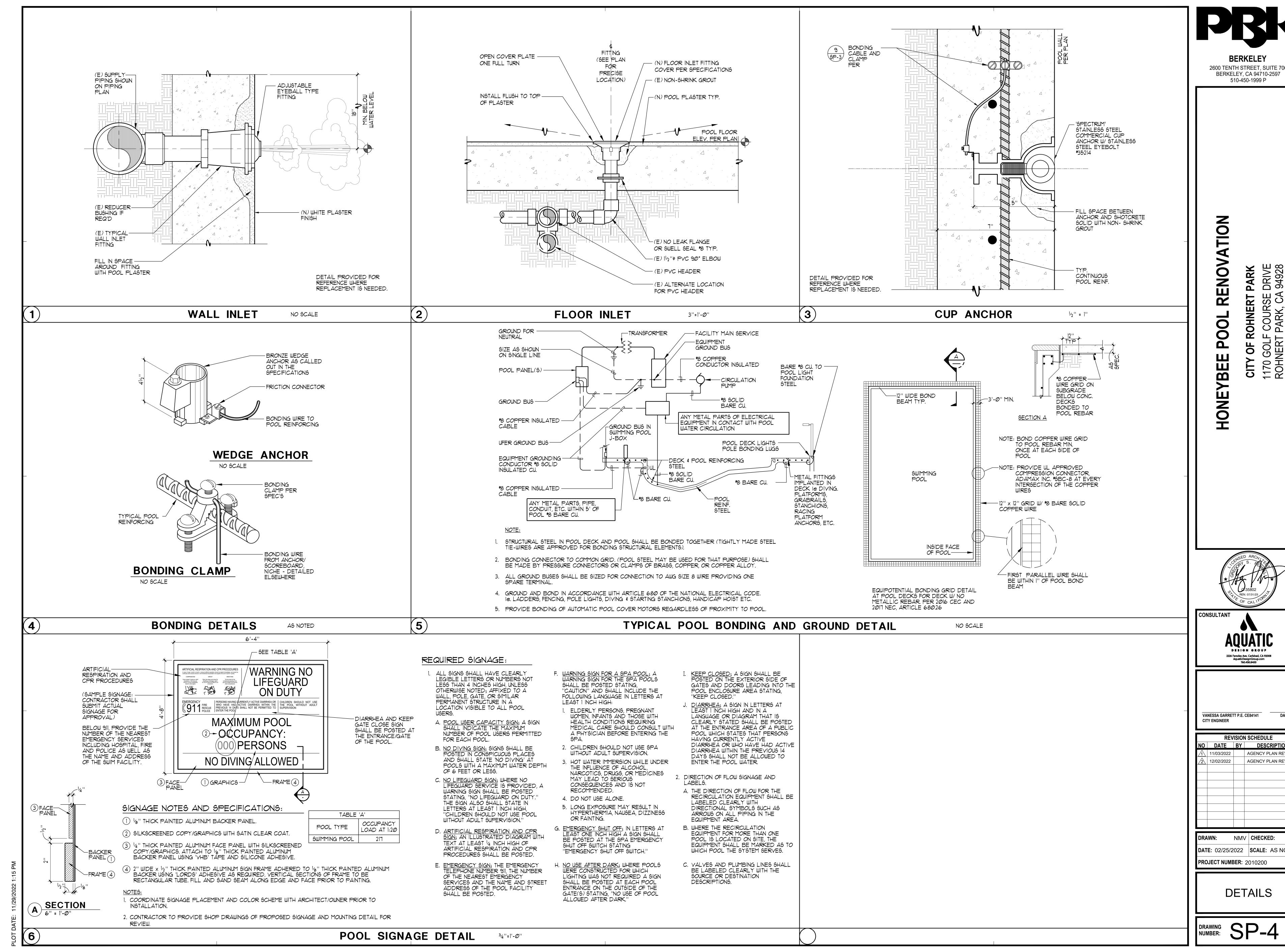
> F ROHNERT PARK LF COURSE DRIVE RT PARK, CA 94928 CITY OF RO 1170 GOLF ROHNERT F

AQUATIC DESIGN GROUP 2226 Faraday Ave. Carlsbad, CA 92008 AquaticDesignGroup.com 760.438.8400

REVISION SCHEDULE NO DATE BY DESCRIPTION AGENCY PLAN REVIEW AGENCY PLAN REVIEW

NMV CHECKED: **DATE**: 02/25/2022 **SCALE**: AS NOTED

DETAILS



2600 TENTH STREET, SUITE 700 BERKELEY, CA 94710-2597 510-450-1999 P

> PARK DRIVE V 94928 1170 GOL ROHNERT

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	REVISION SCHEDULE		
NO	DATE	BY	DESCRIPTION
1	11/03/2022		AGENCY PLAN REVIEW
<u>^2</u>	12/02/2022		AGENCY PLAN REVIEW
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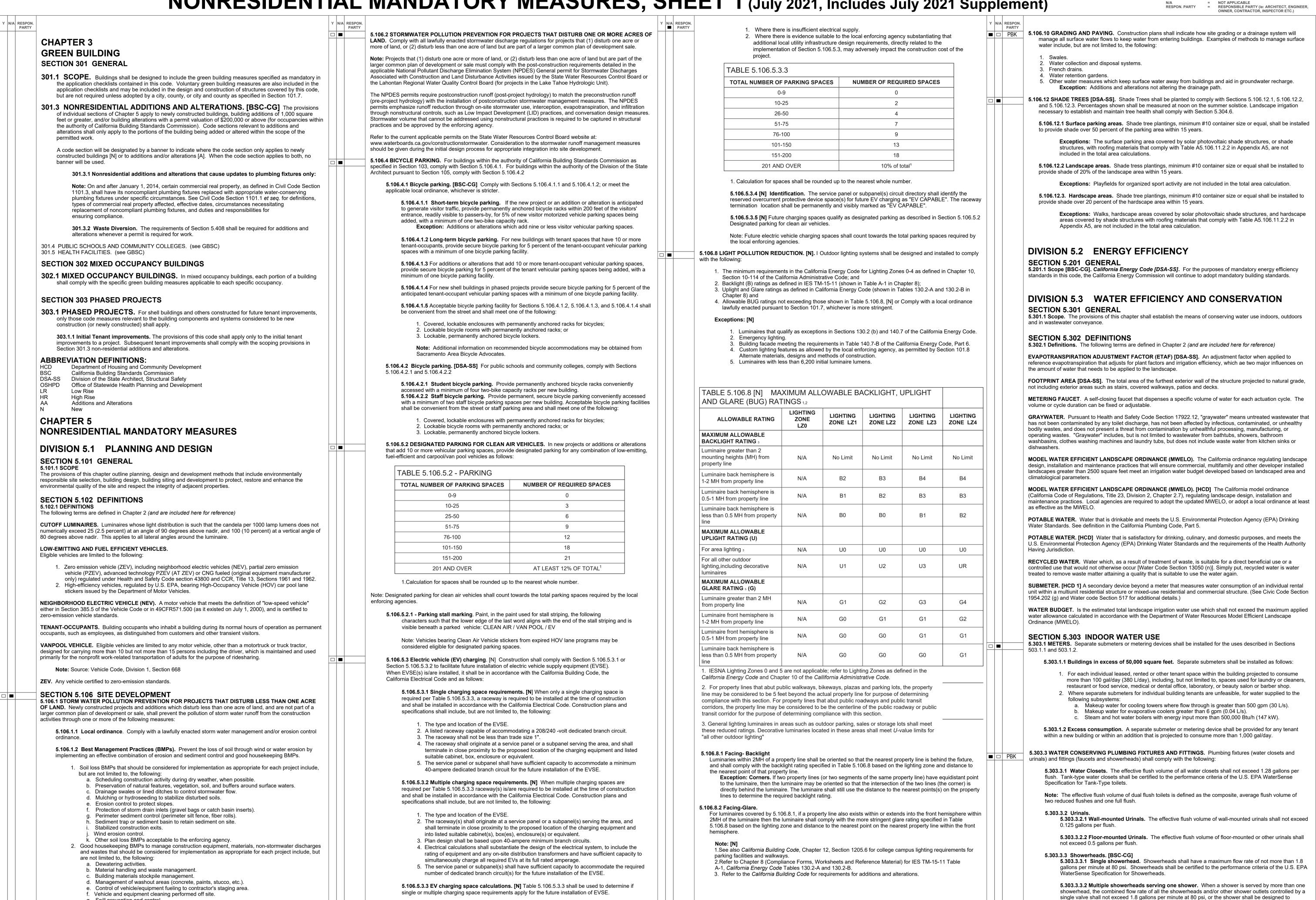
DATE: 02/25/2022 **SCALE**: AS NOTED



n. Other housekeeping BMPs acceptable to the enforcing agency.

California 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (July 2021, Includes July 2021 Supplement)



allow only one shower outlet to be in operation at a time.

Note: A hand-held shower shall be considered a showerhead.

Exceptions: On a case-by-case basis where the local enforcing agency has determined EV

charging and infrastructure is not feasible based upon one or more of the following conditions:



California 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES. SHEET 1 (July 2021, Includes July 2021 Supplement)

Y	N/A RESPON. PARTY	A RESPON. PARTY	N/A RESPON. PARTY
	SECTION 5.407 WATER RESISTANCE AND MOISTURE MANAGEMENT	5.410.2 COMMISSIONING. [N] New buildings 10,000 square feet and over. For new buildings 10,000 square feet	5.410.4.4 Reporting. After completion of testing, adjusting and balancing, provide a final report of testi
5.303.3.4 Faucets and fountains.	5.407.1 WEATHER PROTECTION. Provide a weather-resistant exterior wall and foundation envelope as required by California Building Code Section 1402.2 (Weather Protection), manufacturer's installation instructions or local	and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements.	signed by the individual responsible for performing these services.
5.303.3.4.1 Nonresidential Lavatory faucets. Lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi.	ordinance, whichever is more stringent. 5.407.2 MOISTURE CONTROL. Employ moisture control measures by the following methods.	Commissioning shall be performed in accordance with this section by trained personnel with experience on projects of comparable size and complexity. For I-occupancies that are not regulated by OSHPD or for I-occupancies and L-occupancies that are not regulated y the California Energy Code Section 100.0 Scope, all requirements in Sections	5.410.4.5 Operation and maintenance (O & M) manual. Provide the building owner or representative detailed operating and maintenance instructions and copies of guaranties/warranties for each system. Copies of guaranties for each system.
5.303.3.4.2 Kitchen faucets. Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate,	5.407.2.1 Sprinklers. Design and maintain landscape irrigation systems to prevent spray on structures.	5.410.2 through 5.410.2.6 shall apply.	instructions shall be consistent with OSHA requirements in CCR, Title 8, Section 5142, and other relate regulations.
but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi.	5.407.2.2 Entries and openings . Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings as follows:	Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting systems and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements	5.410.4.5.1 Inspections and reports. Include a copy of all inspection verifications and reports reby the enforcing agency.
 5.303.3.4.3 Wash fountains. Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute/20 [rim space (inches) at 60 psi]. 5.303.3.4.4 Metering faucets. Metering faucets shall not deliver more than 0.20 gallons per cycle. 	5.407.2.2.1 Exterior door protection. Primary exterior entries shall be covered to prevent water intrusion by using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to such openings plus at least one of the following:	Commissioning requirements shall include: 1. Owner's or Owner representative's project requirements.	DIVISION 5.5 ENVIRONMENTAL QUALITY
5.303.3.4.5 Metering faucets for wash fountains. Metering faucets for wash fountains shall have a	1. An installed awning at least 4 feet in depth.	Basis of design. Commissioning measures shown in the construction documents.	SECTION 5.501 GENERAL 5.501.1 SCOPE. The provisions of this chapter shall outline means of reducing the quantity of air contaminan
maximum flow rate of not more than 0.20 gallons per minute/20 [rim space (inches) at 60 psi].	 The door is protected by a roof overhang at least 4 feet in depth. The door is recessed at least 4 feet. Other methods which provide equivalent protection. 	4. Commissioning plan. 5. Functional performance testing. 6. Documentation and training.	are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and no SECTION 5.502 DEFINITIONS
Note: Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.	5.407.2.2.2 Flashing. Install flashings integrated with a drainage plane.	7. Commissioning report.	5.502.1 DEFINITIONS. The following terms are defined in Chapter 2 (and are included here for reference)
5.303.3.4.6 Pre-rinse spray value When installed, shall meet the requirements in the <i>California Code of Regulations</i> , Title 20 (Appliance		Exceptions:	ARTERIAL HIGHWAY. A general term denoting a highway primarily for through traffic usually on a continuou A-WEIGHTED SOUND LEVEL (dBA). The sound pressure level in decibels as measured on a sound level m
Efficiency Regulations), Section 1605.1 (h)(4) Table H-2, Section 1605.3 (h)(4)(A), and Section 1607 (d)(7), and shall be equipped with an integral automatic shutoff.	SECTION 5.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING	Unconditioned warehouses of any size. Areas less than 10,000 square feet used for offices or other conditioned accessory spaces within unconditioned warehouses.	using the internationally standardized A-weighting filter or as computed from sound spectral data to which A-adjustments have been made.
FOR REFERENCE ONLY: The following table and code section have been reprinted from the California Code of Regulations, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) and Section 1605.3 (h)(4)(A).	DBK 5.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65% of the non-hazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent.	3. Tenant improvements less than 10,000 square feet as described in Section 303.1.1. 4. Open parking garages of any size, or open parking garage areas, of any size, within a structure.	1 BTU/HOUR. British thermal units per hour, also referred to as Btu. The amount of heat required to raise or of water one degree Fahrenheit per hour, a common measure of heat transfer rate. A ton of refrigeration is 1
TABLE H-2	5.408.1.1 Construction waste management plan. Where a local jurisdiction does not have a construction and demolition waste management ordinance, submit a construction waste management plan that:	Note: For the purposes of this section, unconditioned shall mean a building, area, or room which does not provide heating and or air conditioning.	the amount of heat required to melt a ton (2,000 pounds) of ice at 32 ⁰ Fahrenheit. COMMUNITY NOISE EQUIVALENT LEVEL (CNEL). A metric similar to the day-night average sound level except that a 5 decibel adjustment is added to the equivalent continuous sound exposure level for evening h
STANDARDS FOR COMMERCIAL PRE-RINSE SPRAY	Identifies the construction and demolition waste materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale.	Informational Notes: 1. IAS AC 476 is an accreditation criteria for organizations providing training and/or certification of	to 10pm) in addition to the 10 dB nighttime adjustment used in the Ldn.
VALUES MANUFACTURED ON OR AFTER JANUARY 28, 2019	 Determines if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream). Identifies diversion facilities where construction and demolition waste material collected will be taken. 	commissioning personnel. AC 476 is available to the Authority Having Jurisdiction as a reference for qualifications of commissioning personnel. AC 476 des not certify individuals to conduct functional performance tests or to adjust and balance systems.	COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural par structural composite lumber, oriented strand board, glued laminated timber, timber, prefabricated wood I–jois
PRODUCT CLASS [spray force in ounce force (ozf)] MAXIMUM FLOW RATE (gpm)	Specifies that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.	Eunctional performance testing for heating, ventilation, air conditioning systems and lighting controls must be performed in compliance with the <i>California Energy Code</i> .	finger–jointed lumber, all as specified in California Code of Regulations (CCR), Title 17, Section 93120.1(a). Note: See CCR, Title 17, Section 93120.1.
Product Class 1 (≤ 5.0 ozf) 1.00	5.408.1.2 Waste Management Company. Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill	mast be penomica in compliance with the California Lifetgy Code.	DAY-NIGHT AVERAGE SOUND LEVEL (Ldn). The A-weighted equivalent continuous sound exposure levels
Product Class 2 (> 5.0 ozf and ≤ 8.0 ozf) 1.20	complies with this section. Note: The owner or contractor shall make the determination if the construction and demolition waste material	5.410.2.1 Owner's or Owner Representative's Project Requirements (OPR). [N] The expectations and requirements of the building appropriate to its phase shall be documented before the design phase of the	24-hour period with a 10 dB adjustment added to sound levels occurring during nighttime hours (10p.m. to 7 DECIBEL (db). A measure on a logarithmic scale of the magnitude of a particular quantity (such as sound p
Product Class 3 (> 8.0 ozf) 1.28	will be diverted by a waste management company.	project begins. This documentation shall include the following: 1. Environmental and sustainability goals. 2. Building sustainable goals.	sound power, sound intensity) with respect to a reference quantity.
303.4 COMMERCIAL KITCHEN EQUIPMENT.	Exceptions to Sections 5.408.1.1 and 5.408.1.2: 1. Excavated soil and land-clearing debris.	 Indoor environmental quality requirements. Project program, including facility functions and hours of operation, and need for after hours 	ELECTRIC VEHICLE (EV). An automotive-type vehicle for on-road use, such as passenger automobiles, b trucks, vans, neighborhood electric vehicles, electric motorcycles, and the like, primarily powered by an electric that draws current from a rechargeable storage battery, fuel cell, photovoltaic array, or other source of electric motorcycles.
5.303.4.1 Food Waste Disposers. Disposers shall either modulate the use of water to no more than 1 gpm when the disposer is not in use (not actively grinding food waste/no-load) or shall automatically shut off after no	Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist.	5. Equipment and systems expectations. 6. Building occupant and operation and maintenance (O&M) personnel expectations.	Plug-in hybrid electric vehicles (PHEV) are considered electric vehicles. For purposes of the <i>California Elec</i> off-road, self-propoelled electric vehicles, such as industrial trucks, hoists, lifts, transports, golf carts, airline
more than 10 minutes of inactivity. Disposers shall use no more than 8 gpm of water. Note: This code section does not affect local jurisdiction authority to prohibit or require disposer	Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets.	5.410.2.2 Basis of Design (BOD). [N] A written explanation of how the design of the building systems meets the OPR shall be completed at the design phase of the building project. The Basis of Design document shall	support equipment, tractors, boats, and the like, are not included. ELECTRIC VEHICLE CHARGING STATION(S) (EVCSj). One or more spaces intended for charging electr
installation. 303.5 AREAS OF ADDITION OR ALTERATION. For those occupancies within the authority of the California	5.408.1.3 Waste stream reduction alternative. The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 65% minimum requirement as approved by the enforcing agency.	cover the following systems:	ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE). The conductors, including the ungrounded, grounded equipment grounding conductors and the electric vehicle connectors, attachment plugs, and all other fittings
uilding Standards Commission as specified in Section 103, the provisions of Section 5.303.3 and 5.303.4 shall apply new fixtures in additions or areas of alteration to the building.	5.408.1.4 Documentation. Documentation shall be provided to the enforcing agency which demonstrates	 Renewable energy systems. Landscape irrigation systems. Water reuse system. 	power outlets, or apparatus installed specifically for the purpose of transferring energy between the premise and the electric vehicle.
303.6 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures and fittings shall be installed accordance with the <i>California Plumbing Code</i> , and shall meet the applicable standards referenced in Table 1701.1 the <i>California Plumbing Code</i> and in Chapter 6 of this code.	compliance with Sections 5.408.1.1, through 5.408.1.3. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency. Notes:	5.410.2.3 Commissioning plan. [N] Prior to permit issuance a commissioning plan shall be completed to document how the project will be commissioned. The commissioning plan shall include the following:	ENERGY EQUIVALENT (NOISE) LEVEL (Leq). The level of a steady noise which would have the same en the fluctuating noise level integrated over the time of period of interest.
	Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)"	 General project information. Commissioning goals. Systems to be commissioned. Plans to test systems and components shall include: 	EXPRESSWAY. An arterial highway for through traffic which may have partial control of access, but which r not be divided or have grade separations at intersections.
ECTION 5.304 OUTDOOR WATER USE 304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Nonresidential developments shall comply	located www.dgs.ca.gov/BSC/Resources/Page-Content/Building-Standards-Commission- Resources-List-Folder/CALGreen may be used to assist in documenting compliance with the waste management plan.	a. An explanation of the original design intent. b. Equipment and systems to be tested, including the extent of tests.	FREEWAY. A divided arterial highway with full control of access and with grade separations at intersections
th a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water ficient Landscape Ordinance (MWELO), whichever is more stringent.	Mixed construction and demolition debris processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).	c. Functions to be tested. d. Conditions under which the test shall be performed. e. Measurable criteria for acceptable performance.	GLOBAL WARMING POTENTIAL (GWP). The radiative forcing impact of one mass-based unit of a given gas relative to an equivalent unit of carbon dioxide over a given period of time. Carbon dioxide is the reference compound with a GWP of one.
Notes: 1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code of Regulations, Title 23, Chapter 2.7, Division 2.	□ PBK 5.408.2 UNIVERSAL WASTE. [A] Additions and alterations to a building or tenant space that meet the scoping provisions in Section 301.3 for nonresidential additions and alterations, shall require verification that Universal Waste	 Commissioning team information. Commissioning process activities, schedules and responsibilities. Plans for the completion of commissioning shall be included. 	GLOBAL WARMING POTENTIAL VALUE (GWP VALUE). A 100-year GWP value published by the
2. MWELO and supporting documents, including a water budget calculator, are available at: https://www.water.ca.gov/.	items such as fluorescent lamps and ballast and mercury containing thermostats as well as other California prohibited Universal Waste materials are disposed of properly and are diverted from landfills. A list of prohibited Universal Waste materials shall be included in the construction documents.	5.410.2.4 Functional performance testing. [N] Functional performance tests shall demonstrate the correct installation and operation of each component, system and system-to-system interface in accordance with the	Intergovernmental Panel on Climate Change (IPCC) in either its Second Assessment Report (SAR) (IPCC, its Fourth Assessment A-3 Report (AR4) (IPCC, 2007). The SAR GWP values are found in column "SAR (1 Table 2.14.; the AR4 GWP values are found in column "100 yr" of Table 2.14.
304.6 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. For public schools and community colleges, and scape projects as described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of	Note: Refer to the Universal Waste Rule link at: http://www.dtsc.ca.gov/universalwaste/	approved plans and specifications. Functional performance testing reports shall contain information addressing each of the building components tested, the testing methods utilized, and include any readings and adjustments	HIGH-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that is: (a) a chlorofluorocarbo hdrochlorofluorocarbon, a hydrofluorocarbon, a perfluorocarbon, or any compound or blend of compounds, we have a superfluorocarbon or any compound or blend of compounds.
ater Resources Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 490 of Chapter 7, Division 2, Title 23, <i>California Code of Regulations</i> , except that the evapotranspiration adjustment factor (ETAF) all be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35.	□ PBK 5.408.3 EXCAVATED SOIL AND LAND CLEARING DEBRIS. 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such	made.	GWP value equal to or greater than 150, or (B) any ozone depleting substance as defined in Title 40 of the Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009).
Exception : Any project with an aggregate landscape area of 2,500 square feet or less may comply with the	material may be stockpiled on site until the storage site is developed. Exception: Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation.	5.410.2.5 Documentation and training. [N] A Systems Manual and Systems Operations Training are required, including Occupational Safety and Health Act (OSHA) requirements in <i>California Code of Regulations</i> (CCR), Title 8, Section 5142, and other related regulations.	LONG RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of divith a radius 1.5 times the pipe diameter.
prescriptive measures contained in Appendix D of the MWELO. 5.304.6.1 Newly constructed landscapes. New construction projects with an aggregate landscape	Notes:	5.410.2.5.1 Systems manual. [N] Documentation of the operational aspects of the building shall be completed within the systems manual and delivered to the building owner or representative. The	LOW-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that: (A) has a GWP value le 150, and (B) is not an ozone depleting substance as defined in Title 40 of the Code of Federal Regulations,
area equal to or greater than 500 square feet. 5.304.6.2 Rehabilitated landscapes. Rehabilitated landscape projects with an aggregate	If contamination by disease or pest infestation is suspected, contact the County Agricultural Commissioner and follow its direction for recycling or disposal of the material.	systems manual shall include the following: 1. Site information, including facility description, history and current requirements.	sec.82.3 (as amended March 10, 2009).
landscape area equal to or greater than 1,200 square feet.	For a map of know pest and/or disease quarantine zones, consult with the California Department of Food and Agriculture. (www.cdfa.ca.gov)	 Site contact information. Basic operations and maintenance, including general site operating procedures, basic 	MERV. Filter minimum efficiency reporting value, based on ASHRAE 52.2–1999. MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by additional contents of the
<u> </u>	□ PBK SECTION 5.410 BUILDING MAINTENANCE AND OPERATIONS 5.410.1 RECYCLING BY OCCUPANTS. Provide readily accessible areas that serve the entire building and are	troubleshooting, recommended maintenance requirements, site events log. 4. Major systems. 5. Site equipment inventory and maintenance notes.	compound to the "Base REactive Organic Ġas (ROG) Mixture" per weight of compound added, expressed hundreths of a gram (g O³/g ROC).
IVISION 5.4 MATERIAL CONSERVATION AND RESOURCE FFICIENCY	identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive.	6. A copy of verifications required by the enforcing agency or this code. 7. Other resources and documentation, if applicable.	PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per graph product (excluding container and packaging).
ECTION 5.401 GENERAL 401.1 SCOPE. The provisions of this chapter shall outline means of achieving material conservation and resource	Exception : Rural jurisdictions that meet and apply for the exemption in Public Resources Code 42649.82 (a)(2)(A) et seq. shall also be exempt from the organic waste portion of this section.	5.410.2.5.2 Systems operations training. [N] A program for training of the appropriate maintenance staff for each equipment type and/or system shall be developed and documented in the commissioning	PSIG. Pounds per square inch, guage.
ficiency through protection of buildings from exterior moisture, construction waste diversion, employment of chniques to reduce pollution through recycling of materials, and building commissioning or testing and adjusting.	5.410.1.1 Additions. All additions conducted within a 12-month period under single or multiple permits,	report and shall include the following: 1. System/equipment overview (what it is, what it does and with what other systems and/or equipment it interfaces).	REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contrib ozone formation in the troposphere.
ECTION 5.402 DEFINITIONS 402.1 DEFINITIONS. The following terms are defined in Chapter 2 (and are included here for reference)	resulting in an increase of 30% or more in floor area, shall provide recycling areas on site. Exception: Additions within a tenant space resulting in less than a 30% increase in the tenant space	Review and demonstration of servicing/preventive maintenance. Review of the information in the Systems Manual.	SCHRADER ACCESS VALVES. Access fittings with a valve core installed.
DJUST. To regulate fluid flow rate and air patterns at the terminal equipment, such as to reduce fan speed or adjust	floor area. 5.410.1.2 Sample ordinance. Space allocation for recycling areas shall comply with Chapter 18, Part 3,	Review of the record drawings on the system/equipment. 5.410.2.6 Commissioning report. [N] A report of commissioning process activities undertaken through the	SHORT RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of with a radius 1.0 times the pipe diameter.
ALANCE. To proportion flows within the distribution system, including sub-mains, branches and terminals,	Division 30 of the <i>Public Resources Code</i> . Chapter 18 is known as the California Solid Waste Reuse and Recycling Access Act of 1991 (Act).	design and construction phases of the building project shall be completed and provided to the owner or representative.	SUPERMARKET. For the purposes of Section 5.508.2, a supermarket is any retail food facility with 8,000 s or more conditioned area, and that utilizes either refrigerated display cases, or walk-in coolers or freezers or to remote compressor units or condensing units.
JILDING COMMISSIONING. A systematic quality assurance process that spans the entire design and construction occess, including verifying and documenting that building systems and components are planned, designed, installed,	Note: A sample ordinance for use by local agencies may be found in Appendix A of the document at the CalRecycle's web site. □ ■	5.410.4 TESTING AND ADJUSTING. New buildings less than 10,000 square feet. Testing and adjusting of systems shall be required for new buildings less than 10,000 square feet or new systems to serve an addition or	VOC. A volatile organic compound broadly defined as a chemical compound based on carbon chains or ring vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically chydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a)
sted, operated and maintained to meet the owner's project requirements.		alteration subject to Section 303.1. 5.410.4.2 (Reserved)	Note: Where specific regulations are cited from different agencies such as SCAQMD, ARB, etc., the VOC d
RGANIC WASTE. Food waste, green waste, landscape and pruning wste, nonhazardous wood waste, and food illed paper waste that is mixed in with food waste.		Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including	included in that specific regulation is the one that prevails for the specific measure in question. SECTION 5.503 FIREPLACES
EST. A procedure to determine quantitative performance of a system or equipment		as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements and Sections 120.5, 120.6, 130.4, and 140.9(b)3 for additional testing requirements of specific	5.503.1 FIREPLACES. Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, o woodstove or pellet stove, and refer to residential requirements in the California Energy Code, Title 24, Part Subchapter 7, Section 150. Woodstoves, pellet stoves and fireplaces shall comply with applicable local ordin
		systems. 5.410.4.2 Systems. Develop a written plan of procedures for testing and adjusting systems. Systems to be included for testing and adjusting shall include at a minimum, as applicable to the project:	5.503.1.1 Woodstoves. Woodstoves and pellet stoves shall comply with U.S. EPA New Source Perf Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are to most the emission limits.
		included for testing and adjusting shall include at a minimum, as applicable to the project: 1. Renewable energy systems.	to meet the emission limits.
		2. Landscape irrigation systems.	SECTION 5.504 POLLUTANT CONTROL 5.504.1 TEMPORARY VENTILATION. The permanent HVAC system shall only be used during construction necessary to condition the building or areas of addition or alteration within the required temperature range for material and equipment installation. If the HVAC system is used during construction, use return air filters with
		5.410.4.3 Procedures. Perform testing and adjusting procedures in accordance with manufacturer's specifications and applicable standards on each system.	material and equipment installation. If the HVAC system is used during construction, use return air filters wit Minimum Efficiency Reporting Value (MERV) of 8, based on ASHRAE 52.2-1999, or an average efficiency of 30% based on ASHRAE 52.1-1992 Replace all filters immediately prior to occupancy, or, if the building is
			occupied during alteration, at the conclusion of construction
		5.410.4.3.1 HVAC balancing. In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, the system shall be balanced in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National	occupied during alteration, at the conclusion of construction. 5.504.3 Covering of duct openings and protection of mechanical equipment during construction. At the rough installation and during storage on the construction site until final startup of the heating, cooling and ve



California 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (July 2021, Includes July 2021 Supplement)

Υ	N/A	RESPON. PARTY
		PBK

5.504.4 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with Sections 5.504.4.1 through

5.504.4.1 Adhesives, sealants and caulks. Adhesives, sealants, and caulks used on the project shall meet the requirements of the following standards:

1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products as specified in subsection 2, below.

2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements. including prohibitions on use of certain toxic compounds, of California Code of Regulations, Title 17, commencing

TABLE 5.504.4.1 - ADHESIVE VOC LIN	ЛІТ _{1,2}
Less Water and Less Exempt Compounds in Grams	per Liter
ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
INDOOR CARPET ADHESIVES	50
CARPET PAD ADHESIVES	50
OUTDOOR CARPET ADHESIVES	150
WOOD FLOORING ADHESIVES	100
RUBBER FLOOR ADHESIVES	60
SUBFLOOR ADHESIVES	50
CERAMIC TILE ADHESIVES	65
VCT & ASPHALT TILE ADHESIVES	50
DRYWALL & PANEL ADHESIVES	50
COVE BASE ADHESIVES	50
MULTIPURPOSE CONSTRUCTION ADHESIVES	70
STRUCTURAL GLAZING ADHESIVES	100
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250
OTHER ADHESIVES NOT SPECIFICALLY LISTED	50
SPECIALTY APPLICATIONS	
PVC WELDING	510
CPVC WELDING	490
ABS WELDING	325
PLASTIC CEMENT WELDING	250
ADHESIVE PRIMER FOR PLASTIC	550
CONTACT ADHESIVE	80
SPECIAL PURPOSE CONTACT ADHESIVE	250
STRUCTURAL WOOD MEMBER ADHESIVE	140
TOP & TRIM ADHESIVE	250
SUBSTRATE SPECIFIC APPLICATIONS	
METAL TO METAL	30
PLASTIC FOAMS	50
POROUS MATERIAL (EXCEPT WOOD)	50
WOOD	30
FIBERGLASS	80
	İ

1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER,

2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR **QUALITY MANAGEMENT DISTRICT RULE 1168.** www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF

TABLE 5.504.4.2 - SEALANT VOC L	IMIT
Less Water and Less Exempt Compounds in Gran	ms per Liter
SEALANTS	CURRENT VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL	
NONPOROUS	250
POROUS	775
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	750

NOTE: FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THESE TABLES, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.

5.504.4.3 Paints and coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 5.504.4.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in Subsections 4.21, 4.36 and 4.37 of the 2007 California Air Resources Board Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 5.504.4.3 shall apply.

5.504.4.3.1 Aerosol Paints and coatings. Aerosol paints and coatings shall meet the PWMIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(2) and (d)(2) of California Code of Regulations, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8 Rule 49.

GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS	S EXEMPT COMPOUNDS
COATING CATEGORY	CURRENT VOC LIMIT
FLAT COATINGS	50
NONFLAT COATINGS	100
NONFLAT HIGH GLOSS COATINGS	150
SPECIALTY COATINGS	
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH-TEMPERATURE COATINGS	420
INDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS1	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, & UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACS:	
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100
·	
STAINS STONE CONSOLIDANTS	250
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS TRAFFIC MARKING COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB & TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD DRESERVATIVES	275
WOOD PRESERVATIVES ZINC-RICH PRIMERS	350 340

THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.

3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD

5.504.4.3.2 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:

Manufacturer's product specification 2. Field verification of on-site product containers

5.504.4.4 Carpet Systems. All carpet installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers." Version 1.2, January 2017 (Emission testing method for California Specifications 01350).

See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

> **5.504.4.4.1 Carpet cushion.** All carpet cushion installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, "Version 1.2, January 2017 (Emission testing method for California Specifications

See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.4.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 5.504.4.1.

5.504.4.5 Composite wood products. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the buildings shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure (ATCM) for Composite Wood (17 CCR 93120 et seq.). Those materials not exempted under the ATCM must meet the specified emission limits, as shown in Table 5.504.4.5.

> **5.504.4.5.3 Documentation.** Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:

- Product certifications and specifications.
- . Chain of custody certifications. 3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.).
- 4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269 or European 636 3S
- 5. Other methods acceptable to the enforcing agency.

TABLE 5.504.4.5 - FORMALDEHYDE LIMITS ₁	
MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILL	ION
PRODUCT	CURRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLE BOARD	0.09
MEDIUM DENSITY FIBERBOARD	0.11
THIN MEDIUM DENSITY FIBERBOARD2	0.13
1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY TAIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS 93120.12.	IN ACCORDANCE WITH ASTM E 1333. FOR
2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS O	OF 5/16 INCHES (8 MM).
5.504.4.6 Resilient flooring systems. Where resilient flooring is	s installed, at least 80 percent of floor area ifornia Department of Public Health,"Standa cal Emissions from Indoor Sources Using

5.504.5.3 Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air that provides at least a Minimum Efficiency Reporting Value (MERV) of 13. MERV 13 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of

5.504.4.6.1 Verification of compliance. Documentation shall be provided verifying that resilient flooring

Exceptions: Existing mechanical equipment

materials meet the pollutant emission limits.

the same value shall be included in the operation and maintenance manual.

5.504.5.3.1 Labeling. Installed filters shall be clearly labeled by the manufacturer indicating the MERV

5.504.7 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL. Where outdoor areas are provided for smoking, prohibit smoking within 25 feet of building entries, outdoor air intakes and operable windows and within the building as 🔳 🖂 OWNER already prohibited by other laws or regulations; or as enforced by ordinances, regulations or policies of any city, county, city and county, California Community College, campus of the California State University, or campus of the University of California, whichever are more stringent. When ordinances, regulations or policies are not in place, post signage to inform building occupants of the prohibitions.

SECTION 5.505 INDOOR MOISTURE CONTROL

■ □ PBK 5.505.1 INDOOR MOISTURE CONTROL. Buildings shall meet or exceed the provisions of California Building Code, CCR, Title 24, Part 2, Sections 1202 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures, see Section 5.407.2 of this code.

SECTION 5.506 INDOOR AIR QUALITY

■ □ PBK 5.506.1 OUTSIDE AIR DELIVERY. For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 120.1 (Requirements For Ventilation) of the California Energy Code, or the applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.

> 5.506.2 CARBON DIOXIDE (CO2) MONITORING. For buildings or additions equipped with demand control ventilation, CO2 sensors and ventilation controls shall be specified and installed in accordance with the requirements of the California Energy Code, Section 120(c)(4).

SECTION 5.507 ENVIRONMENTAL COMFORT

■ □ PBK 5.507.4 ACOUSTICAL CONTROL. Employ building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E 90 and ASTM E 413, or Outdoor-Indoor Sound Transmission Class (OITC) determined in accordance with ASTM E 1332, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2.

> **Exception:** Buildings with few or no occupants or where occupants are not likely to be affected by exterior noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking

Exception: [DSA-SS] For public schools and community colleges, the requirements of this section and all subsections apply only to new construction.

5.507.4.1 Exterior noise transmission, prescriptive method. Wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall meet a composite STC rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of 40 or OITC of 30 in the following locations:

1. Within the 65 CNEL noise contour of an airport.

- 1. Ldn or CNEL for military airports shall be determined by the facility Air Installation Compatible
- Land Use Zone (AICUZ) plan. 2. Ldn or CNEL for other airports and heliports for which a land use plan has not been developed shall be determined by the local general plan noise element.
- 2. Within the 65 CNEL or Ldn noise contour of a freeway or expressway, railroad, industrial source or fixed-guideway source as determined by the Noise Element of the General Plan.

5.507.4.1.1. Noise exposure where noise contours are not readily available. Buildings exposed to a noise level of 65 dB L_{eq} - 1-hr during any hour of operation shall have building, addition or alteration exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of

5.507.4.2 Performance Method. For buildings located as defined in Section 5.507.4.1 or 5.507.4.1, wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (Leq-1Hr) of 50 dBA in occupied areas during any hour of operation.

at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30).

5.507.4.2.1 Site Features. Exterior features such as sound walls or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior.

5.507.4.2.2 Documentation of Compliance. An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record.

5.507.4.3 Interior sound transmission. Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40.

Note: Examples of assemblies and their various STC ratings may be found at the California Office of Noise Control: www.toolbase.org/PDF/CaseStudies/stc_icc_ratings.pdf.

SECTION 5.508 OUTDOOR AIR QUALITY **5.508.1 Ozone depletion and greenhouse gas reductions.** Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.

5.508.1.1 Chlorofluorocarbons (CFCs). Install HVAC, refrigeration and fire suppression equipment that do not

contain CFCs.

5.508.1.2 Halons. Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.

5.508.2 Supermarket refrigerant leak reduction. New commercial refrigeration systems shall comply with the

provisions of this section when installed in retail food stores 8,000 square feet or more conditioned area, and that utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming potential (high-GWP) refrigerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the replacement of existing refrigeration systems in existing facilities.

Exception: Refrigeration systems containing low-global warming potential (low-GWP) refrigerant with a GWP value less than 150 are not subject to this section. Low-GWP refrigerants are nonozone-depleting refrigerants that include ammonia, carbon dioxide (CO₂), and potentially other refrigerants.

5.508.2.1 Refrigerant piping. Piping compliant with the California Mechanical Code shall be installed to be accessible for leak protection and repairs. Piping runs using threaded pipe, copper tubing with an outside diameter (OD) less than 1/4 inch, flared tubing connections and short radius elbows shall not be used in refrigerant systems except as noted below.

5.508.2.1.1 Threaded pipe. Threaded connections are permitted at the compressor rack.

5.508.2.1.2 Copper pipe. Copper tubing with an OD less than 1/4 inch may be used in systems with a refrigerant charge of 5 pounds or less.

keep vibration levels below 8 mils.

5.508.2.1.2.1 Anchorage. One-fouth-inch OD tubing shall be securely clamped to a rigid base to

5.508.2.1.3 Flared tubing connections. Double-flared tubing connections may be used for pressure controls, valve pilot lines and oil.

Exception: Single-flared tubing connections may be used with a multiring seal coated with industrial sealant suitable for use with refrigerants and tightened in accordance with manufacturer's

5.508.2.1.4 Elbows. Short radius elbows are only permitted where space limitations prohibit use of

5.508.2.2 Valves. Valves Valves and fittings shall comply with the *California Mechanical Code* and as

5.508.2.2.1 Pressure relief valves. For vessels containing high-GWP refrigerant, a rupture disc shall be installed between the outlet of the vessel and the inlet of the pressure relief valve.

5.508.2.2.1.1 Pressure detection. A pressure gauge, pressure transducer or other device shall be installed in the space between the rupture disc and the relief valve inlet to indicate a disc

5.508.2.2.2 Access valves. Only Schrader access valves with a brass or steel body are

rupture or discharge of the relief valve.

5.508.2.2.2.1 Valve caps. For systems with a refrigerant charge of 5 pounds or more, valve caps

shall be brass or steel and not plastic

5.508.2.2.2 Seal caps. If designed for it, the cap shall have a neoprene O-ring in place.

5.508.2.2.2.2.1 Chain tethers. Chain tethers to fit ovr the stem are required for valves designed to have seal caps.

Exception: Valves with seal caps that are not removed from the valve during stem

5.508.2.3 Refrigerated service cases. Refrigerated service cases holding food products containing vinegar and salt shall have evaporator coils of corrosion-resistant material, such as stainless steel; or be coated to prevent corrosion from these substances.

5.508.2.3.1 Coil coating. Consideration shall be given to the heat transfer efficiency of coil coating to maximize energy efficiency.

5.508.2.4 Refrigerant receivers. Refrigerant receivers with capacities greater than 200 pounds shall be fitted with a device tha indicates the level of refrigerant in the receiver.

5.508.2.5 Pressure testing. The system shall be pressure tested during installation prior to evacuation and

5.508.2.5.1 Minimum pressure. The system shall be charged with regulated dry nitrogen and appropriate tracer gas to bring system pressure up to 300 psig minimum.

5.508.2.5.2 Leaks. Check the system for leaks, repair any leaks, and retest for pressure using the same

5.508.2.5.3 Allowable pressure change. The system shall stand, unaltered, for 24 hours with no more

than a +/- one pound pressure change from 300 psig, measured with the same gauge.

5.508.2.6 Evacuation. The system shall be evacuated after pressure testing and prior to charging

5.508.2.6.1 First vacuum. Pull a system vacuum down to at least 1000 microns (+/- 50 microns), and

5.508.2.6.2 Second vacuum. Pull a second system vacuum to a minimum of 500 microns and hold for 30

5.508.2.6.3 Third vacuum. Pull a third vacuum down to a minimum of 300 microns, and hold for 24 hours with a maximum drift of 100 microns over a 24-hour period.

CHAPTER 7 INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

702 QUALIFICATIONS

702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following:

- State certified apprenticeship programs.
- Public utility training programs.
- Training programs sponsored by trade, labor or statewide energy consulting or verification organizations. . Programs sponsored by manufacturing organizations.
- 5. Other programs acceptable to the enforcing agency.

702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:

- Certification by a national or regional green building program or standard publisher.
- 2. Certification by a statewide energy consulting or verification organization, such as HERS raters, building performance contractors, and home energy auditors.
- Successful completion of a third party apprentice training program in the appropriate trade. 4. Other programs acceptable to the enforcing agency.

1. Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code. 2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS).

[BSC-CG] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.

Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.

703 VERIFICATIONS

703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist.