

# FINLEY AQUATIC CENTER SPRAY GROUND AND **RENOVATION PROJECT** 2060 W College Ave, Santa Rosa, CA 95401

# **GENERAL NOTES:**

- ALL WORKMANSHIP, MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE CITY OF SANTA ROSA STANDARD PLANS, THE CONSTRUCTION SPECIFICATIONS FOR PUBLIC IMPROVEMENTS, THE SPECIAL PROVISIONS FOR THIS PROJECT AND THE STATE STANDARD SPECIFICATIONS AND STANDARD PLANS. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING ALL STANDARI PERTAINING TO THIS PROJECT.
- 2. THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (USA) AT 1-800-227-2600 NO LESS THAN 2 WORKING DAYS PRIOR TO ANY EXCAVATION FOR MARK OUTS OF EXISTING UNDERGROUND
- THE LOCATIONS OF UNDERGROUND UTILITIES AND O HE EXACT LOCATION OF ALL POTENTIAL CONFLICTS IN ACCORDANCE WITH U.S.A. UTILITIES ARE ENCOUNTERED, OR IF UNABLE TO LOCATE A MARKED UTILITY AFTER POT HOLING. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER OF THAT UTILITY
- ALL SEWER MANHOLES, MAINLINE CLEANOUTS AND WATER VALVES THAT ARE ON ACTIVE SYSTEMS SHALL BE ACCESSIBLE TO CITY PERSONNEL AT ALL TIMES AND SHALL WITHIN 48 HOURS OF PAVING.
- 5. THE CONTRACTOR SHALL PROTECT AND PRESERVE CITY MONUMENTS. THE CONTRACTOR SHALL INATE WITH THE CITY ENGINEER 10 WORKING DAYS IN ADVANCE FOR REFERENCING OF EXISTING MONUMENTS TO BE DISTURBED. THE CONTRACTOR SHALL RECONSTRUCT DISTURBED MONUMENTS IN ACCORDANCE WITH CITY STANDARD 280
- 6. OVERHEAD UTILITY SERVICE DROPS ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL INVESTIGATE THE SITE AND BE AWARE OF LIMITED CLEARANCES UNDER OVERHEAD UTILITY LINES AND LOW HANGING TREE BRANCHES. THE CONTRACTOR'S TRUCKS AND EXCAVATION EQUIPMENT SHALL BE SIZED SO THAT OVERHEAD WIRES AND TREE BRANCHES ARE NOT DAMAGED.
- 7. ALL EXCAVATED MATERIAL SHALL BE DISPOSED OF AS GENERATED AND AT NO TIME SHALL THE CONTRACTOR PLACE EXCAVATED MATERIAL AT THE WORK SITE.
- 8. THE CONTRACTOR SHALL ONLY REMOVE EXISTING TREES OR SHRUBS AS NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- 9. FOR CLARITY OF EXISTING SUBSURFACE CONDITIONS, NOT ALL CROSSWALKS, STOP BARS, OR EXISTING PAVEMENT MARKINGS ARE SHOWN ON THE PLANS. TRAFFIC STRIPES. RAISED PAVEMENT MARKERS AND PAVEMENT MARKINGS DAMAGED DUE TO THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED PER CITY OF SANTA ROSA TRAFFIC STANDARDS PART III, TRAFFIC MARKINGS. PATCHING OF DAMAGED MARKINGS WILL NOT BE ALLOWED WITHOUT PRIOR APPROVAL FROM THE ENGINEER. ALL DAMAGED RAISED PAVEMENT (NON-REFLECTIVE) MARKERS MUST BE CERAMIC.
- 10. CONTRACTOR SHALL CAREFULLY PRESERVE ALL BENCH MARKS, GRADE STAKES, AND ALL OTHER SURVEY MARKERS. IN THE CASE OF WILLFUL OR CARELESS DESTRUCTION. CONTRACTOR SHALL BEAR THE COST OF REPLACING THE MARKERS. CONTRACTOR SHALL CONTACT THE ENGINEER DIRECTLY FOR COORDINATION OF SURVEY STAKING. WRITTEN STAKING REQUESTS MUST BE SUBMITTED AT LEAST TWO WORKING DAYS IN ADVANCE OF THE DATE AND TIME STAKES ARE NEEDED.

# **PROJECT DIRECTORY**

## LANDSCAPE ARCHITECT

GATES + ASSOCIATES 1655 N. MAIN STREET, STE 365, WALNUT CREEK, CA 94596 PH: (925) 736-8176 CONTACT: DYLAN BUTERBAUGH

## **CIVIL ENGINEER**

BKF ENGINEERS 200 4TH STREET, SUITE 300 SANTA ROSA, CA 95401 PH: (707) 583-8536 CONTACT: BECKY DOWER

# **AQUATICS DESIGNER**

ARCHPAC AQUATICS 1341 DISTRIBUTION WAY, SUITE 11 VISTA, CA 92081 PH: (760) 734-1600 CONTACT: KEN MOELLER

## ARCHITECT

COAR DESIGN GROUP 200 E ST SANTA ROSA, CA 95404 PH: (619) 698-9177 CONTACT: MATT KINGDON

## MEP ENGINEER

INTERFACE ENGINEERING 135 MAIN STREET, SUITE 400 SAN FRANCISCO, CA 94105 PH: (415) 489-7285 CONTACT: MIKE ESTRADA

## **STRUCTURAL ENGINEER**

ZFA STRUCTURAL ENGINEERS 1212 FOURTH STREET, SUITE Z SANTA ROSA, CA 95404 PH: (707) 526-0992 CONTACT: LUKE WILSON

# **CITY OF SANTA ROSA**

**IMPROVEMENT PLANS FOR** 

# CONTRACT No. C02336



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BEFORE EXCAVATING CALL U.S.A. UNDERGROUND SERVICE ALERT 800-642-2444 TWO WORKING DAYS BEFORE ALL PLANNED WORK OPERATIONS

ALL WORK TO BE COMPLETED BY A C-53 CONTRACTOR.

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2.	ALL APPLICABLE REQUIREMENTS OF THE CALIFORNIA CONSTRUCTION AND GENERAL INDUSTRY SAFETY ERRORS, THE OCCUPATIONAL SAFETY AND HEALTH ACT AND THE CONSTRUCTION SAFETY ACT SHALL BE MET.		、 、		
3.	IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN PERMITS NECESSARY TO PERFORM THE WORK SHOWN IN THESE PLANS FROM THE APPROPRIATE AGENCIES.				
4.	THE CONTRACTOR SHALL TAKE EFFECTIVE ACTION TO PREVENT THE FORMATION OF AN AIRBORNE DUST NUISANCE AND SHALL BE RESPONSIBLE FOR ANY DAMAGE RESULTING FROM THEIR FAILURE	þ			
5.	THE CONTRACTOR MUST PROVIDE FOR SAFE ACCESSIBLE INGRESS AND EGRESS FOR ADJACENT PROPERTY OWNERS AND EVA THROUGHOUT THE PERIOD OF CONSTRUCTION . TEMPORARY THROUGH ACCESS FOR THE GENERAL PUBLIC DUE TO CONSTRUCTION STAGING OR LIMITATIONS MUST BE FULLY REVIEWED AND APPROVED BY THE OWNER PRIOR TO IMPLEMENTATION. ALL ACCESS MUST BE SAFE, SECURED, FLAGGED, SIGNED, AND ACCESSIBLE PER THE APPROVED SITE ACCESS PLAN SUBMITTED BY THE CONTRACTOR AND REQUIRED BY THE OWNER.				
6.	DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR EMERGENCY VEHICLE ACCESS, PUBLIC SAFETY AND SAFETY OF EXISTING STRUCTURES. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, FENCING, BARRICADES, TRAFFIC CONTROLS, FLAGGERS, SHORINGS, BRACING AND GUYS OR OTHER DEVICES NECESSARY TO PROVIDE FOR SAFETY IN ACCORDANCE WITH ALL NATIONAL, STATE SPECS AND LOCAL SAFETY ORDINANCES.		15* 50		
7.	THE CONTRACTOR SHALL POST EMERGENCY TELEPHONE NUMBERS FOR POLICE, FIRE, AMBULANCE, AND THOSE AGENCIES RESPONSIBLE FOR MAINTENANCE OF UTILITIES IN THE VICINITY OF JOB SITE.	א א ו		12" SD	L.O.W.
8.	SURFACE MOUNTED, GALVANIZED, TEMPORARY METAL CHAIN LINK CONSTRUCTION FENCING SHALL BE MIN. 6' HIGH, 11 $\frac{1}{2}$ TO 9 GAUGE, 2 $\frac{1}{4}$ " TO 2" MESH SIZE, AND SHALL REMAIN IN PLACE THROUGHOUT THE DURATION OF THE PROJECT, AND BE REMOVED IMMEDIATELY AFTER PROJECT ACCEPTANCE. TEMPORARY CONSTRUCTION SIGNAGE SHALL CONFORM TO CITY OF UNION CITY REQUIREMENTS, SHALL REMAIN IN PLACE THROUGHOUT THE DURATION OF THE PROJECT, AND BE REMOVED IMMEDIATELY AFTER PROJECT ACCEPTANCE.		l		(E) LAWN
9.	CONTRACTOR SHALL PROVIDE PARKING LOT ACCESS AND PEDESTRIAN ACCESS FOR ADJACENT BUSINESSES & RESIDENTS FOR THE DURATION OF THE PROJECT. CONTRACTOR TO SUBMIT THE FOLLOWING PLANS TO CITY INSPECTOR FOR APPROVAL PRIOR TO BEGINNING ANY WORK. WORK SHALL NOT START WITHOUT CITY APPROVED PLANS:	(5)	-22		
	<ul> <li>A. CONSTRUCTION FENCING PLAN</li> <li>B. CONSTRUCTION SIGNAGE PLAN</li> <li>C. VEHICLE TRAFFIC CONTROL PLAN</li> <li>D. PEDESTRIAN SAFETY PLAN</li> <li>E. FIRE ACCESS PLAN</li> </ul>			SS	SS
10.	ALL STAGING AREAS SHALL COMPLY WITH SECTION 7-1.04 "PUBLIC SAFETY" AS WELL AS SECTION 13-4.03C STOCKPILE MANAGEMENT.				
11.	THE RIGHT OF WAY SHALL BE USED ONLY FOR PURPOSES THAT ARE NECESSARY TO PERFORM THE REQUIRED WORK. THE CONTRACTOR SHALL NOT OCCUPY THE RIGHT OF WAY OR ALLOW OTHERS TO OCCUPY THE RIGHT OF WAY FOR PURPOSES WHICH ARE NOT NECESSARY TO PERFORM THE REQUIRED WORK.				
12.	THERE ARE NO CITY-OWNED PARCELS ADJACENT TO THE RIGHT OF WAY FOR THE EXCLUSIVE USE OF THE CONTRACTOR WITHIN THE CONTRACT LIMITS.	``````````````````````````````````````			
13.	RESIDENCE TRAILERS SHALL NOT BE ALLOWED WITHIN THE CITY RIGHT OF WAY.	40.			
14.	SITES, STORAGE OF EQUIPMENT OR MATERIALS, OR FOR OTHER PURPOSES IF SUFFICIENT AREA IS NOT AVAILABLE TO HIM WITHIN THE CONTRACT LIMITS, OR AT THE SITES DESIGNATED ON THE PLANS OUTSIDE THE CONTRACT LIMITS. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS AND SHALL DEMONSTRATE TO THE ENGINEER THAT SUCH PERMITS HAVE BEEN OBTAINED BEFORE COMMENCING USE.				
15.	IN ADDITION, THE CONTRACTOR SHALL PROVIDE THE CITY ENGINEER WITH A COPY OF ALL PRIVATE PROPERTY USE AGREEMENT LETTERS. THESE LETTERS SHALL CLEARLY STATE THE SPECIFIC USE OF SAID PROPERTIES, LENGTH OF USE AND FORM OF REMUNERATION (IF ANY). THESE LETTERS ARE TO BE DATED AND SIGNED BY THE PROPERTY OWNERS AND THE AUTHORIZED CONTRACTOR REPRESENTATIVE.				
16.	THE CONTRACTOR SHALL REMOVE ALL EQUIPMENT, MATERIALS, AND RUBBISH FROM THE WORK AREAS AND OTHER PROPERTY WHICH HE/SHE OCCUPIES AND SHALL LEAVE THE AREAS IN A PRESENTABLE CONDITION IN ACCORDANCE WITH THE PROVISIONS IN SECTION 4-1.13, "CLEANUP," OF THE STANDARD SPECIFICATIONS.				
17.	REFER TO SPECIAL CONDITIONS WITHIN PROJECT SPECS FOR ADDITIONAL STAGING REQUIREMENTS.				



### GENERAL NOTES

ALL MATERIALS, WORKMANSHIP AND CONSTRUCTION SHALL CONFORM TO THE CURRENT CITY OF SANTA ROSA DESIGN AND CONSTRUCTION STANDARDS AND CONSTRUCTION SPECIFICATIONS FOR PUBLIC IMPROVEMENTS.

CONTRACTOR SHALL OBTAIN AND PAY FOR ALL CONSTRUCTION PERMITS REQUIRED BY THE CITY OF SANTA ROSA (SUCH AS ENCROACHMENT, GRADING, BUILDING, DEMOLITION ETC.) PRIOR TO COMMENCEMENT OF WORK.

THE CONTRACTOR SHALL OBTAIN A DE-WATERING PERMIT FROM THE NORTH COAST REGIONAL WATER QUALITY 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 SEWER.

TEMPORARY STOCKPILES SHALL NOT BE LOCATED WITHIN CREEK SETBACK AREAS, PROTECTED VEGETATION/TREE AREAS OR WITHIN 10 FEET OF AN ADJACENT RESIDENTIAL PROPERTY LINE. STOCKPILES TALLER THAN 2.5 FEET SHALL NOT BE WITHIN 50 FEET OF AN ADJACENT RESIDENTIAL PROPERTY LINE.

TEMPORARY STOCKPILES MUST BE REMOVED BY COMPLETION OF GRADING ACTIVITIES UNLESS A SEPARATE TEMPORARY USE PERMIT AND GRADING PERMIT IS OBTAINED FOR THE STOCKPILE.

CONTRACTOR SHALL SECURE A TRENCH PERMIT FROM THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY PRIOR TO EXCAVATION OF ANY TRENCH OVER FIVE FEET IN DEPTH.

CONTRACTOR SHALL HIRE THE SERVICES OF A PROFESSIONAL LAND SURVEYOR FOR CONSTRUCTION STAKING IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.

IF CONTAMINATED MATERIAL IS ENCOUNTERED DURING CONSTRUCTION, WORK MUST STOP UNTIL A WORK PLAN HAS BEEN APPROVED IN WRITING BY THE CITY FIRE DEPARTMENT AND THE NORTH COAST REGIONAL WATER QUALITY CONTROL BOARD (NCRWQCB). HAZARDOUS MATERIAL SHALL BE REMOVED AND DISPOSED OF ACCORDING TO THE REQUIREMENTS OF THE CITY'S FIRE DEPARTMENT. THE APPLICANT IS REQUIRED TO DEMONSTRATE COMPLIANCE WITH STATE AND LOCAL CODES FOR REMOVAL OF ASBESTOS CONTAINING MATERIALS DURING DEMOLITION OF THE STRUCTURES ON THE PROJECT SITE.

ALL TRENCH SPOILS SHALL BE REMOVED AS THEY ARE GENERATED OR DISPOSED OF ON SITE AS REQUIRED BY THE GRADING PERMIT. EXCESS/UNSUITABLE MATERIAL DISPOSED OF OFFSITE AT AN APPROVED LOCATION BY ENGINEERING DEVELOPMENT SERVICES. CONTAIN AND SECURELY PROTECT STOCKPILED TRENCH BACKFILL AND WASTE MATERIAL FROM WIND AND RAIN AT ALL TIMES UNLESS ACTIVELY BEING USED. DO NOT BLOCK STORM WATER FLOWS.

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 DEPARTMENTS PRIOR TO FINAL SURFACING.

THE CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE 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. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONSTRUCTION CONTRACTOR FURTHER AGREES TO HOLD HARMLESS, INDEMNIFY AND DEFEND THE DESIGN PROFESSIONAL, THE OWNER AND THEIR CONSULTANTS, AND THE CITY OF SANTA ROSA, AND EACH OF THEIR OFFICERS, EMPLOYEES, AND AGENTS 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 THE DESIGN PROFESSIONAL.

THE LOCATIONS OF UNDERGROUND OBSTRUCTIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE ONLY AND SHOULD NOT BE TAKEN AS FINAL OR ALL INCLUSIVE. THE CONTRACTOR IS CAUTIONED THAT THE DRAWINGS MAY NOT INCLUDE ALL EXISTING UTILITIES INCLUDING SEWERS AND STORM DRAINS.

THE CONTRACTOR SHALL EXPOSE ALL EXISTING UTILITIES INCLUDING SEWERS AND STORM DRAINS PRIOR TO ANY TRENCHING TO ALLOW THE ENGINEER TO VERIFY THE GRADE AND ALIGNMENT OF THE UTILITIES. AND TO VERIFY DESIGN ASSUMPTIONS AND EXACT FIELD LOCATION. EXISTING UTILITIES MAY REQUIRE RELOCATION AND/OR PROPOSED IMPROVEMENTS MAY REQUIRE GRADE OR ALIGNMENT REVISION DUE TO FIELD CONDITIONS.

UNDERGROUND FACILITIES NOT SHOWN ON THESE DRAWINGS SUCH AS PG&E, TELEPHONE, TV, IRRIGATION, ETC. SHALL BE COORDINATED AND CONSTRUCTED PRIOR TO PLACEMENT OF BASE ROCK AND PAVING.

CONSTRUCTION HOURS SHALL BE LIMITED FROM 7 AM TO 7 PM MONDAY THROUGH SATURDAY, EXCLUDING HOLIDAYS. THIS RESTRICTION INCLUDES THE START UP OF ANY MOTORIZED EQUIPMENT. ALL CONTRACTORS' EQUIPMENT SHALL BE PROPERLY MUFFLED AND SHALL BE SHUT DOWN WHEN NOT IN USE. (HOURS ARE SUBJECT TO THE CONDITIONS OF APPROVAL)

THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING DAMAGE OR DETERIORATION OCCURRING TO EXISTING PUBLIC IMPROVEMENTS AS A DIRECT RESULT OF CONSTRUCTION ACTIVITY (GRADING, ROAD CONSTRUCTION, UTILITY INSTALLATION, ETC.). REPAIR MAY REQUIRE PATCHING, SEALING OR OVERLAYING AFFECTED AREAS AS APPROPRIATE TO RETURN THE ROADS TO AT LEAST AS GOOD A CONDITION AS THEY WERE PRIOR TO CONSTRUCTION. IF THE CONTRACTOR DOES NOT ACT IN A TIMELY MANNER, THE CITY MAY, AT ITS DISCRETION PERFORM THE CORRECTION AND CHARGE THE CONTRACTOR FOR ALL COSTS AND OVERHEAD INCURRED.

RECORD DRAWINGS SHALL BE PROVIDED TO THE CITY UPON COMPLETION OF PROJECT AND PRIOR TO FINAL ACCEPTANCE.

RECORD DRAWINGS SHALL INCLUDE SUB-DRAINS AND CLEAN-OUTS REQUIRED BY THE PROJECT GEOTECHNICAL ENGINEER DURING CONSTRUCTION.

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 METHODS OF DISPOSAL, AND IN CONFORMANCE WITH ALL APPLICABLE LAWS AND REGULATIONS. WASTE RECEPTACLES SHALL BE COVERED AT THE END OF EVERY DAY AND DURING RAIN EVENTS.

ENSURE THE CONTAINMENT OF SANITATION FACILITIES (E.G., PORTABLE TOILETS) TO PREVENT DISCHARGES OF POLLUTANTS TO THE STORM WATER DRAINAGE SYSTEM, ROADS OR RECEIVING WATERS. SANITATION FACILITIES MUST BE MAINTAINED PERIODICALLY BY A LICENSED SERVICE COMPANY TO KEEP THEM IN GOOD WORKING ORDER AND PREVENT OVERFLOWS. PORTABLE TOILETS ARE REQUIRED TO HAVE SECONDARY CONTAINMENT.

EQUIPMENT AND MATERIALS NECESSARY FOR CONTROL OF SPILLS SHALL BE AVAILABLE ON SITE AT ALL TIMES. SPILLS AND LEAKS SHALL BE STOPPED AND THE MATERIAL CLEANED UP IMMEDIATELY AND DISPOSED OF PROPERLY. USE PROPER BEST MANAGEMENT PRACTICES (BMPS) TO PREVENT OIL, GREASE, OR FUEL FROM LEAKING ON THE GROUND, INTO THE STORM DRAINS OR SURFACE WATERS.

CONTAIN CONCRETE WASHOUT AREAS AND SIMILAR AREAS THAT MAY CONTAIN POLLUTANTS TO PREVENT DISCHARGE INTO THE UNDERLYING SOIL OR ONTO THE SURROUNDING AREAS.

ESTABLISH AND MAINTAIN EFFECTIVE SITE PERIMETER CONTROLS AND STABILIZE ALL CONSTRUCTION ENTRANCES AND EXITS TO SUFFICIENTLY CONTROL EROSION AND SEDIMENT DISCHARGES AND TRACKED MATERIALS FROM LEAVING THE SITE. AT A MINIMUM DAILY AND PRIOR TO ANY RAIN EVENT, THE CONTRACTOR SHALL REMOVE ANY SEDIMENT OR OTHER CONSTRUCTION ACTIVITY RELATED MATERIALS THAT ARE DEPOSITED ON THE ROADS (BY VACUUMING OR SWEEPING).

PLACE EQUIPMENT OR VEHICLES, WHICH ARE BEING FUELED, MAINTAINED AND STORED, IN A DESIGNATED AREA FITTED WITH APPROPRIATE BMPS.

ADA COMPLIANCE: CONSTRUCTION CONTRACTOR MUST COMPLY WITH THE REQUIREMENTS OF THE AMERICAN WITH DISABILITIES ACT (ADA) WHILE WORKING IN THE PUBLIC RIGHT-OF-WAY. IF CONSTRUCTION CONTRACTOR'S WORK IN THE PUBLIC RIGHT-OF-WAY WILL AFFECT PEDESTRIAN ACCESS, THE CONSTRUCTION CONTRACTOR IS REQUIRED TO PROVIDE A PROPERLY SIGNED ACCESSIBLE ROUTE OF TRAVEL. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

IN THE EVENT THAT ANY REMAINS OF PREHISTORIC OR HISTORIC HUMAN ACTIVITIES ARE ENCOUNTERED DURING PROJECT-RELATED ACTIVITIES, WORK IN THE IMMEDIATE VICINITY OF THE FINDS SHALL HALT AND THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT SUPERINTENDENT AND THE CITY OF SANTA ROSA INSPECTOR. WORK SHALL NOT RESUME UNTIL A QUALIFIED ARCHAEOLOGIST OR HISTORIC ARCHAEOLOGIST. AS APPROPRIATE. APPROVED BY THE CITY OF SANTA ROSA, HAS EVALUATED THE SITUATION AND MADE RECOMMENDATIONS FOR TREATMENT OF THE RESOURCE, AND WHOSE RECOMMENDATIONS ARE CARRIED OUT. IF HUMAN BURIAL REMAINS ARE ENCOUNTERED, THE CONTRACTOR MUST ALSO CONTACT THE COUNTY CORONER.

### GRADING NOTES

NO GRADING, CLEARING OR GRUBBING SHALL BE PERFORMED PRIOR TO ISSUANCE OF A GRADING PERMIT BY THE CITY OF SANTA ROSA.

PRESERVE AND PERPETUATE EXISTING SURVEY MONUMENTATION WHICH WILL BE DUST CONTROL SHALL BE PROVIDED BY CONTRACTOR DURING ALL PHASES OF DISTURBED OR REMOVED TO FACILITATE THE PROPOSED IMPROVEMENTS. IF WORK CONSTRUCTION. WILL BE CONDUCTED IN AN AREA WHICH RESULTS IN THE DISTURBANCE OF MONUMENTATION, RETAIN THE SERVICES OF A LICENSED LAND SURVEYOR TO SITE GRADING SHALL BE DONE UNDER OBSERVATION OF THE PROJECT LOCATE SAID MONUMENTATION PRIOR TO DISTURBANCE. ADDITIONALLY, RETAIN GEOTECHNICAL ENGINEER AND SHALL BE IN COMPLIANCE WITH CHAPTER 18 THE SERVICES OF A LICENSED LAND SURVEYOR TO RE-ESTABLISH APPENDIX J, MOST RECENT EDITION OF THE CALIFORNIA BUILDING CODE AND MONUMENTATION WHICH HAS BEEN DISTURBED AS A RESULT OF PROJECT THE RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL REPORT, TITLED CONSTRUCTION AND TO FILE THE APPROPRIATE DOCUMENTATION, PURSUANT TO GEOTECHNICAL EXPLORATION PREPARED BY ENGEO INCORPORATED AND DATED BUSINESS AND PROFESSIONS CODE SECTION 8771, WITH THE SONOMA COUNTY JUNE 1, 2021. RECORDER ONCE CONSTRUCTION IS COMPLETE.

SOILS TO BE USED FOR SITE GRADING SHALL BE TESTED BY THE CONTRACTOR THE LOCATIONS OF UNDERGROUND FACILITIES SHOWN ON THESE DRAWINGS ARE TO ILLUSTRATE ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S APPROXIMATE AND AREA BASED ON OBSERVED TOPOGRAPHIC SURFACE FEATURES RECOMMENDATIONS PRIOR TO SITE GRADING ACTIVITIES. AND AVAILABLE INFORMATION. THE PROFESSIONAL PREPARING THIS MAP ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THESE FACILITIES OR FOR THE INADVERTENT OMISSION OF RELATED INFORMATION. OVER EXCAVATION OF UNSUITABLE SOILS AND REPLACEMENT WITH SUITABLE

SOILS SHALL BE PERFORMED IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS

EXCESS AND UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE SITE TO AN AREA APPROVED BY THE CITY BUILDING DIVISION. APPROVALS MUST BE IN WRITING PRIOR TO REMOVAL OF MATERIAL.

DRAINAGE FROM UPSTREAM PROPERTIES SHALL NOT BE BLOCKED BY GRADING OR CONSTRUCTION OF IMPROVEMENTS.

THE CONTRACTOR SHALL PROTECT EXISTING DRAINAGE FACILITIES FROM SEDIMENTATION DURING ALL PHASES OF CONSTRUCTION.

BASIS OF BEARINGS: CENTERLINE OF STONY POINT ROAD AS SHOWN ON THE HAZARDOUS MATERIAL SHALL BE REMOVED AND DISPOSED OF ACCORDING TO THE RECORD OF SURVEY, FILED IN BOOK 466 AT PAGE 1, S.C.R. REQUIREMENTS OF THE CITY'S FIRE DEPARTMENT. THE APPLICANT IS REQUIRED TO DEMONSTRATE COMPLIANCE WITH STATE AND LOCAL CODES FOR REMOVAL OF BENCHMARK: CITY OF SANTA ROSA BENCHMARK D141: STONY POINT ROAD, ASBESTOS CONTAINING MATERIALS DURING DEMOLITION OF ANY STRUCTURES ON 195-FT SOUTH OF WEST COLLEGE AVENUE; CITY DISK IN A WELL MONUMENT, THE PROJECT SITE. CENTERLINE OF STONY POINT ROAD, AT NORTH END OF A CURBE 11/90. ELEVATION: 110,182

PRIOR TO ANY GRADING OPERATION, THE CONTRACTOR SHALL INSTALL PROTECTIVE FENCING AROUND THE DRIP LINE OF TREES TO BE SAVED IN COMPLIANCE WITH THE CITY TREE ORDINANCE. THE CUTTING, FILLING, PAVING OR TRENCHING WITHIN ROOT ZONES OF TREES TO BE SAVED MUST BE REVIEWED AND APPROVED BY A CITY APPROVED ARBORIST AND PERFORMED UNDER THEIR ON SITE SUPERVISION.

THE USE OF CONTROLLED DENSITY BACKFILL (CDF) WITHIN ANY PUBLIC SEWER OR WATER TRENCH IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY THE DIRECTOR OF UTILITIES.

THERE SHALL BE NO UNMETERED CONNECTIONS TO THE CITY OF SANTA ROSA WATER SYSTEM INCLUDING CONNECTIONS BYPASSING THE METER FOR TESTING ONSITE PLUMBING OR FOR OBTAINING CONSTRUCTION WATER. SUCH CONNECTIONS SHALL BE SEVERED BY THE UTILITY DEPARTMENT AND WILL RESULT IN PENALTIES, INCLUDING PAYMENT OF FINES AND ESTIMATED WATER USAGE FEES.

CONTRACTOR SHALL CONTACT CITY OF SANTA ROSA PUBLIC WORKS DEPARTMENT FOR FINAL INSPECTION OF ALL SEWER MAINS AND LATERALS. ALL SEWER MAINS AND LATERALS MUST BE CLEANED & MANDRELED PRIOR TO CITY ACCEPTANCE.

UTILITY TRENCH BACKFILL SHALL BE TESTED BY THE CONTRACTOR TO ILLUSTRATE ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS PRIOR TO USE. UTILITY TRENCH BACKFILLING SHALL BE OBSERVED BY THE PROJECT GEOTECHNICAL ENGINEER TO CONFIRM THAT IT IS PERFORMED IN ACCORDANCE WITH THE GEOTECHNICAL RECOMMENDATIONS.

ALL PIPE LENGTHS SHOWN ARE MEASURED HORIZONTALLY FROM CENTER OF STRUCTURES.

### STRIPING AND SIGNING NOTES

UNLESS OTHERWISE SHOWN ON PLAN, THE CONTRACTOR SHALL RESTORE EXISTING STRIPING, SIGNAGE, CURB PAINT, ETC. THAT IS DAMAGED OR REMOVED (AND DOES NOT CONFLICT WITH THE PROPOSED STRIPING & SIGNAGE IMPROVEMENTS) AS A DIRECT RESULT OF CONSTRUCTION ACTIVITY TO AT LEAST AS GOOD A CONDITION AS THEY WERE PRIOR TO CONSTRUCTION.

STRIPING AND SIGNING SHALL BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE CITY OF SANTA ROSA TRAFFIC STANDARDS. MATERIALS SHALL BE FURNISHED BY THE CONTRACTOR.

PROPOSED STRIPING AND MARKING SHALL BE INSTALLED THE SAME DAY AS THE REMOVAL OF THE EXISTING STRIPING AND MARKINGS. IF NOT, CONTRACTOR SHALL PROVIDE TEMPORARY PAVEMENT MARKERS UNTIL PROPOSED STRIPING AND MARKING ARE INSTALLED.

ALL STRIPING, PAVEMENT MARKING AND SIGNING SHALL CONFORM TO THE LATEST EDITION OF THE CALTRANS STANDARD PLANS, CALIFORNIA MUTCD AND CITY OF SANTA ROSA STREET TRAFFIC STANDARDS.

THE CONTRACTOR SHALL NOTIFY THE CITY TRAFFIC ENGINEER A MINIMUM OF 48-HOURS PRIOR TO THE DAY OF LAYOUT OF THE PROPOSED SIGNING AND STRIPING. CONTACT TRAFFIC ENGINEERING AT 707-543-3814.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYOUT AND CAT TRACKING OF ALL PROPOSED STRIPING AND MARKING. CAT TRACKING SHALL BE DONE A MINIMUM OF 48-HOURS PRIOR TO PROPOSED STRIPING AND MARKING TO ALLOW THE CITY TIME FOR REVIEW AND APPROVAL.

EXISTING STRIPING AND MARKING TO BE REMOVED SHALL BE REMOVED BY GRINDING BY THE CONTRACTOR.

PAVEMENT LEGENDS, CROSSWALKS AND STOP BARS SHALL BE INSTALLED BY USING THERMOPLASTIC IN ACCORDANCE WITH CALIFORNIA MUTCD AND CALTRANS STANDARD SUPPLEMENTAL SPECIFICATIONS. BIKE LANE LINES SHALL BE INSTALLED USING 6-INCH TAPE OR PAINT.

SIGNING AND STRIPING ARE TO BE WORKED ON CONCURRENTLY.

### MAPPING NOTES

TOPOGRAPHIC INFORMATION SHOWN HEREON WAS OBTAINED FROM A FIELD SURVEYS CONDUCTED BY BKF ENGINEERS ON MARCH 24TH AND NOVEMBER 12TH, 2021.

TREE DIAMETERS ARE MEASURED AT BREAST HEIGHT (±48-INCHES). DRIPLINE DIAMETERS AND TREE SPECIES ARE APPROXIMATE ONLY AND SHOULD BE VERIFIED BY A CERTIFIED ARBORIST.

MISCELLANEOUS BOUNDARY INFORMATION SHOWN HEREON WAS OBTAINED FROM RECORD DATA PER RECORD OF SURVEY, FILED IN BOOK 466 AT PAGE 1, S.C.R.

MATERIALS TABLE					
SURFACE TYPE	LOCATION	THICKNESS	CL2 BASE ROCK	SAND	NOTE
REINFORCED CONCRETE	PARK WALKWAY	6"	6"		1
REINFORCED CONCRETE	PICNIC AREAS, SPLASH PAD	6"	6 <b>"</b>		1, 2, 3
REINFORCED CONCRETE	POOL DECK	_	-		3, 4

1. PROVIDE NUMBER 3 BARS AT 18-INCHES ON CENTER EACH WAY, WITHIN THE MIDDLE THIRD OF THE SLAB.

2. CONCRETE EXPANSION JOINTS SHALL BE FILLED WITH ELASTOMERIC SEALANT.

3. REFER TO THE LANDSCAPE DRAWINGS FOR JOINT DETAILS AND CONCRETE FINISH.

4. REFER TO THE DETAILS ON SHEETS C8.0 AND C8.1.

THE CONTRACTOR IS REQUIRED TO REVIEW THE SOILS REPORT PREPARED FOR THIS PROJECT TO CONFIRM THESE CONDITIONS AND TO REVIEW SAID REPORT FOR SITE PREPARATION AND GRADING RECOMMENDATIONS.

### ABBREVIATIONS

±	MORE OR LESS (CONFORM TO EG)
AC	ASPHALT CONCRETE
ADA	AMERICANS WITH DISABILITIES AC
APN	ASSESSOR'S PARCEL NUMBER
BFP	BACKFLOW PREVENTER
BLDG	BUILDING
BLRD	BOLLARD
BM	BENCHMARK
СВ	CATCH BASIN
CL2	CLASS II
CO	CLEAN OUT
CONC	CONCRETE
CY	CUBIC YARD
DI	DROP INLET
Е	ELECTRIC
EG	EXISTING GROUND
ELEV	ELEVATION
EX	EXISTING
FF	FINISHED FLOOR
FG	FINISHED GRADE
FT	FOOT
G	GAS
GB	GRADE BREAK
GI	GRATE INLET
GM	GAS METER
HDRL	HANDRAIL
INV	BOTTOM INSIDE OF PIPE
L	LENGIH
MAX	
MH	MANHOLE
MON	
	RETAINING WALL
S=	
SD	STORM DRAIN
SDCO	STORM DRAIN CLEANOUT
SDMH	STORM DRAIN MANHOLE
SS	SANITARY SEWER
SSCO	SANITARY SEWER CLEAN OUT
SSMH	SANTTARY SEWER MANHOLE
ТВ	TOP OF BOX
TC	TOP FACE OF CURB
TD	TRENCH DRAIN
TG	TOP OF GRATE
ΤW	TOP OF WALL
ТҮР	TYPICAL
UB	UTILITY BOX
W	WATER
WL	WHITE LINE
WM	WATER METER
YD	YARD DRAIN

DRAINAGE STRUCTURE TABLE				
STRUCTURE	NO.	MODEL	SIZE	DETAIL
DROP INLET	1	OLDCASTLE PRECAST MODEL JB-2424 OR EQUIVALENT	24"x24"	4 C5.1
GRATE INLET	1	OLDCASTLE PRECAST MODEL DI-2424 OR EQUIVALENT	24"x24"	10 C5.1





FILE NO. 2022-014

No. C 80868





![](_page_5_Figure_1.jpeg)

![](_page_5_Figure_3.jpeg)

![](_page_6_Figure_0.jpeg)

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![](_page_7_Figure_0.jpeg)

- 1 REMOVE EXISTING FEATURE TO FACILITATE THE PROPOSED IMPROVEMENTS AND DISPOSE OF UNUSED MATERIAL IN ACCORDANCE WITH LOCAL REGULATIONS.
- 2 REMOVE EXISTING FEATURE WITHOUT DAMAGING AND PRESERVE FOR FUTURE RE-INSTALLATION.
- 3 REMOVE EXISTING SURFACING MATERIAL TO FACILITATE THE PROPOSED IMPROVEMENTS AND DISPOSE OF UNUSED MATERIAL IN ACCORDANCE WITH LOCAL REGULATIONS. REFER TO DETAILS 1 AND 2 ON SHEET C8.0.
- A SAW CUT AND CLEANLY REMOVE EXISTING MATERIAL, OR REMOVE EXISTING MATERIAL TO THE NEAREST CONTROL JOINT WHERE APPLICABLE, TO FACILITATE THE PROPOSED IMPROVEMENTS AND DISPOSE OF EXISTING MATERIALS IN ACCORDANCE WITH LOCAL REGULATIONS.
- 5 REMOVE EXISTING UTILITY TO FACILITATE THE PROPOSED IMPROVEMENTS AND DISPOSE OF UNUSED MATERIAL IN ACCORDANCE WITH LOCAL REGULATIONS.
- 6 REMOVE EXISTING POOL INCLUDING SURFACING, SKIMMERS, FILTERS, DRAINS, RETURNS, AND ALL OTHER RELATED FEATURES AND DISPOSE OF UNUSED MATERIAL IN ACCORDANCE WITH LOCAL REGULATIONS. BACKFILL VOID WITH COMPACTED ENGINEERED FILL TO LINES AND GRADES NEEDED TO FACILITATE PROPOSED IMPROVEMENTS.

(46) REMOVE EXISTING BENCH AND GROUT HOLES WITH CONCRETE.

ANY CONCRETE DEMOLITION AND REPLACEMENT WORK IMMEDIATELY ADJACENT TO THE POOLS WILL REQUIRE THAT THE POOLS BE DRAINED. CONTRACTOR SHALL COORDINATE POOL DRAINING WITH CITY STAFF TO ACCOMMODATE FOR DRAINAGE SYSTEM OPERATIONS DURING POOL DRAINING, INCLUDING OPERATION OF THE MONITORING WELL.

![](_page_7_Figure_10.jpeg)

![](_page_8_Figure_0.jpeg)

Jun 02, 2023 at 2:0

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![](_page_8_Figure_3.jpeg)

- PEDESTRIAN WALKWAY HAVING A CROSS SLOPE WHICH DOES NOT EXCEED 2-PERCENT IN ACCORDANCE WITH SECTION 11B-403.3 OF THE 2019 CALIFORNIA BUILDING CODE.
- 8 SLOPE SURFACE AT A GRADIENT NOT EXCEEDING 2% TO PROVIDE AN ACCESSIBLE PATH OF TRAVEL IN ACCORDANCE WITH SECTION 11B-403.3 OF THE 2013 CALIFORNIA BUILDING CODE (CBC) WHILE PROVIDING DRAINAGE AWAY FROM THE BUILDING IN ACCORDANCE WITH SECTION 1804.3 OF THE CBC.
- (9) LANDING HAVING A SLOPE WHICH DOES NOT EXCEED 2% IN ANY DIRECTION IN ACCORDANCE WITH SECTION 11B-404.2.4.4 OF THE 2013 CALIFORNIA BUILDING CODE.
- (1) CONFORM TO EXISTING SURFACE ELEVATION IN A MANNER WHICH GENERATES A UNIFORM TRANSITION BETWEEN SURFACES AND WHICH DOES NOT IMPEDE DRAINAGE.
- 12 ADJUST EXISTING UTILITY TO FINISHED GROUND SURFACE ELEVATION. SALVAGE POOL UTILITY EQUIPMENT LOCATED WITHIN THE POOL DECK, INCLUDING POOL SKIMMERS, AND ADJUST TO FINISHED GROUND SURFACE ELEVATION.
- (13) FENCE REFER TO THE LANDSCAPE DRAWINGS.
- 14 RETAINING WALL REFER TO THE LANDSCAPE AND STRUCTURAL DRAWINGS.
- (15) SEAT WALL REFER TO THE LANDSCAPE DRAWINGS.
- 16 FLUSH CURB REFER TO THE LANDSCAPE DRAWINGS.
- (7) SPLASH PAD REFER TO THE LANDSCAPE DRAWINGS FOR CONCRETE FINISH. REFER TO THE SPLASH PAD WET PLAY DRAWINGS FOR SPLASH PAD FEATURES AND UTILITIES.
- (18) ARTIFICIAL TURF REFER TO THE LANDSCAPE DRAWINGS.
- (9) SHADE STRUCTURE AND SUPPORT COLUMNS REFER TO THE LANDSCAPE DRAWINGS.
- O CONCRETE SPHERE BOLLARD REFER TO THE LANDSCAPE DRAWINGS.
- 21 DRINKING FOUNTAIN REFER TO THE ARCHITECTURAL DRAWINGS.
- 2 ACCESSIBLE SHOWER REFER TO THE ARCHITECTURAL DRAWINGS.
- APPROXIMATE LIMIT OF GRADING.
- A SPLASH PAD MECHANICAL BUILDING REFER TO THE ARCHITECTURAL, MECHANICAL, AND SPLASH PAD DRAWINGS FOR ADDITIONAL INFORMATION.
- (43) MOW STRIP. REFER TO THE LANDSCAPE DRAWINGS.

![](_page_8_Figure_22.jpeg)

![](_page_8_Figure_23.jpeg)

![](_page_8_Figure_24.jpeg)

![](_page_9_Figure_0.jpeg)

- PEDESTRIAN WALKWAY HAVING A CROSS SLOPE WHICH DOES NOT EXCEED 2-PERCENT IN ACCORDANCE WITH SECTION 11B-403.3 OF THE 2019 CALIFORNIA BUILDING CODE.
- 8 SLOPE SURFACE AT A GRADIENT NOT EXCEEDING 2% TO PROVIDE AN ACCESSIBLE PATH OF TRAVEL IN ACCORDANCE WITH SECTION 11B-403.3 OF THE 2013 CALIFORNIA BUILDING CODE (CBC) WHILE PROVIDING DRAINAGE AWAY FROM THE BUILDING IN ACCORDANCE WITH SECTION 1804.3 OF THE CBC.
- 10 PEDESTRIAN RAMP IN ACCORDANCE WITH SECTION 11B-405 OF THE 2019 CALIFORNIA BUILDING CODE. REFER TO THE LANDSCAPE DRAWINGS FOR HANDRAIL AND ADDITIONAL INFORMATION.
- (1) CONFORM TO EXISTING SURFACE ELEVATION IN A MANNER WHICH GENERATES A UNIFORM TRANSITION BETWEEN SURFACES AND WHICH DOES NOT IMPEDE DRAINAGE.
- ADJUST EXISTING UTILITY TO FINISHED GROUND SURFACE ELEVATION. SALVAGE POOL UTILITY EQUIPMENT LOCATED WITHIN THE POOL DECK, INCLUDING POOL SKIMMERS, AND ADJUST TO FINISHED GROUND SURFACE ELEVATION.
- O CONCRETE SPHERE BOLLARD REFER TO THE LANDSCAPE DRAWINGS.
- (2) DRINKING FOUNTAIN REFER TO THE ARCHITECTURAL DRAWINGS.
- 2 ACCESSIBLE SHOWER REFER TO THE ARCHITECTURAL DRAWINGS.
- 25 REINSTALL EXISTING HANDRAIL.

![](_page_9_Figure_11.jpeg)

![](_page_10_Figure_0.jpeg)

- 26 9" AREA DRAIN.
- Ø 6" SLOT DRAIN.
- 23 REMOVE PORTIONS OF EXISTING STORM DRAIN TO FACILITATE THE PROPOSED IMPROVEMENTS AND CONNECT TO THE NEW STRUCTURE. FORM AND FILL AREA BETWEEN PIPE AND STRUCTURE WITH CONCRETE IN A MANNER WHICH CREATES A PERMANENT WATER TIGHT SEAL.
- 29 REMOVE PORTIONS OF EXISTING STRUCTURE TO FACILITATE THE PROPOSED IMPROVEMENTS AND CONNECT TO THE NEW STORM DRAIN. FORM AND FILL AREA BETWEEN PIPE AND STRUCTURE WITH CONCRETE IN A MANNER WHICH PROVIDES A PERMANENT WATER TIGHT SEAL.
- (30) CONNECT TO EXISTING UTILITY IN A MANNER WHICH PROVIDES A PERMANENT WATER TIGHT SEAL.
- 31 COORDINATE THE LOCATION AND SIZE OF THIS UTILITY WITH THE BUILDING CONTRACTOR AND CONNECT THE SITE UTILITY TO THE BUILDING PLUMBING SYSTEM. PROVIDE CONTROLLED DENSITY BACKFILL (CDF) OR EQUIVALENT IMPERMEABLE TRENCH BACKFILL IMMEDIATELY OUTSIDE OF THE BUILDING TO PREVENT WATER INTRUSION.
- 3 ELECTRICAL LINE SHOWN FOR REFERENCE ONLY. REFER TO THE ELECTRICAL DRAWINGS.
- 34) GAS LINE SHOWN FOR REFERENCE ONLY. REFER TO THE MECHANICAL DRAWINGS.
- 35 SPLASH PAD GUTTER SHOWN FOR REFERENCE ONLY. REFER TO THE SPLASH PAD WET PLAY DRAWINGS.
- 36 4-INCH STORM DRAIN PIPE TO CONNECT TO RETAINING WALL DRAIN PIPE. REFER TO THE LANDSCAPE DRAWINGS.
- 37 4-INCH STORM DRAIN PIPE TO CONNECT TO THE MECHANICAL BUILDING STORMWATER SYSTEM. REFER TO THE SPLASH PAD WET PLAY DRAWINGS.
- 38 PROBABLE LOCATION OF ROOF LEADER. REFER TO THE MECHANICAL ROOM DRAWINGS FOR THE ACTUAL LOCATION OF THIS UTILITY.
- **(44)** CONNECT TO EXISTING MANHOLE IN ACCORDANCE WITH CITY OF SANTA ROSA SEWER CONSTRUCTION SPECIFICATIONS SECTION 130-1.07A.
- **4**5 PROVIDE FELT EXPANSION JOINT MATERIAL BETWEEN UTILITIES WHERE CLEARANCE IS LESS THAN 6-INCHES.
- 47 GROUT SIDE OF EXISTING INLET STRUCTURE TO PLUG THE REMOVED PIPE CONNECTION IN A MANNER WHICH PROVIDES A PERMANENT WATER TIGHT SEAL.
- **4**8 6-INCH TRENCH DRAIN WITH ADA COMPLIANT GRATE, NDS EZ-TRACK DURA SLOPE TRENCH DRAIN SYSTEM OR APPROVED EQUIVALENT.
- **4**9 6-INCH CURVED TRENCH DRAIN WITH ADA COMPLIANT GRATE, NDS EZ-TRACK DURA SLOPE TRENCH DRAIN SYSTEM OR APPROVED EQUIVALENT.
- 60 4-INCH CURVED TRENCH DRAIN WITH ADA COMPLIANT GRATE, NDS EZ-TRACK DURA SLOPE TRENCH DRAIN SYSTEM OR APPROVED EQUIVALENT.

NEW SANITARY SEWER INFRASTRUCTURE TO

EXISTING SANITARY SEWER INFRASTRUCTURE

BE INSTALLED PRIOR TO THE REMOVAL OF

![](_page_10_Figure_22.jpeg)

SSMF

![](_page_10_Figure_23.jpeg)

![](_page_11_Figure_0.jpeg)

![](_page_11_Figure_1.jpeg)

- 39 THERMOPLASTIC 4-INCH WIDE SOLID BLUE STRIPE.
- O THERMOPLASTIC 4-INCH WIDE SOLID STRIPES AT 36-INCHES ON CENTER IN ACCORDANCE WITH SECTION 11B-502.3 OF THE 2019 CALIFORNIA BUILDING CODE.
- (1) THERMOPLASTIC INTERNATIONAL SYMBOL OF ACCESSIBILITY IN ACCORDANCE WITH SECTION 11B-703.7.2.1 OF THE 2019 CALIFORNIA BUILDING CODE.

![](_page_12_Figure_4.jpeg)

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(41)

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(40)

![](_page_12_Figure_5.jpeg)

![](_page_12_Picture_7.jpeg)

		ACT	STRIP 10.	
ATIC CENTER	AND RENOVATION	C6.0	ING PLAN	
DWN BY: BL	CHK BY: BD	DATE: 6/9/2023	SCALE: AS SHOWN	
			NO. DATE	
			REVISION	
	B C 200 4th STR SUITE 300	SANTA ROSA, CA (707) 583-8.	BY	
		5500 5500		
	City of	Santa Rosa		
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![](_page_13_Figure_0.jpeg)

### EROSION & SEDIMENT CONTROL NOTES

EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THESE DRAWINGS ARE GENERAL IN NATURE AND MAY NOT BE APPLICABLE DURING CERTAIN PHASES OF CONSTRUCTION. THE STABILIZED CONSTRUCTION ENTRANCE/EXIT SHOWN ON THESE DRAWINGS REFLECTS A CONDITION PRIOR TO ROADS BEING CONSTRUCTED WHEREAS FILTERS AT STORM WATER INLETS REFLECTS A CONDITION AFTER THE STORM DRAIN SYSTEM HAS BEEN INSTALLED.

THE CONTRACTOR SHALL INTEGRATE APPROPRIATE MEASURES DURING EACH CONSTRUCTION PHASE TO ENSURE THAT SEDIMENT AND OTHER POLLUTANTS DO NOT ENTER THE STORM DRAIN SYSTEM.

THE CONTRACTOR SHALL USE WATER OR DUST PALLIATIVE TO MINIMIZE WIND EROSION. THE CONTRACTOR SHALL DESIGNATE AN AREA ON SITE TO STOCKPILE MATERIAL. THE STOCKPILED MATERIAL SHALL BE COVERED AT ALL TIMES TO PREVENT EROSION FROM WIND, RAIN AND STORM WATER RUNOFF.

EROSION AND SEDIMENT CONTROL MEASURES SHALL BE USED TO ENSURE THAT WATER ENTERING THE STORM DRAIN SYSTEM BELOW THE CONSTRUCTION SITE IS OF EQUIVALENT QUALITY AND CHARACTER AS THE WATER ABOVE THE SITE.

EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PLACED IN FRONT OF INCOMPLETE STORM DRAIN SYSTEMS TO PREVENT DEBRIS AND SEDIMENT-LADEN WATER FROM ENTERING INTO THE PUBLIC STORM DRAIN SYSTEM. BEST MANAGEMENT PRACTICES SHALL BE USED WHEN DESIGNING AND INSTALLING SUCH DEVICES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTANT MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES AT ALL TIMES TO THE SATISFACTION OF THE OWNER AND THE CITY OF SANTA ROSA. EROSION AND SEDIMENT CONTROL MEASURES AND THEIR INSTALLATION SHALL BE ACCOMPLISHED USING BEST MANAGEMENT PRACTICES.

IF THE STORM DRAIN SYSTEM IS NOT INSTALLED PRIOR TO A PRECIPITATION EVENT, ADDITIONAL MEASURES SHALL BE TAKEN SUCH AS TEMPORARY SETTLING BASINS WHICH MEET THE SATISFACTION OF THE OWNER AND THE CITY OF SANTA ROSA. SILT AND/OR CATCH BASINS MUST BE CLEANED OUT ON A REGULAR BASIS AFTER STORMS TO MAINTAIN DESIGN CAPACITY.

STORM WATER RUNOFF FROM THE CONSTRUCTION SITE SHALL BE DIRECTED TOWARD AN INLET WITH A SEDIMENT OR FILTRATION INTERCEPTOR PRIOR TO ENTERING THE STORM DRAIN SYSTEM.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING WATER THAT HAS BECOME POLLUTED DUE TO NOT TAKING NECESSARY EROSION AND SEDIMENT CONTROL ACTIONS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP OF MUD AND DEBRIS CARRIED ONTO SURROUNDING STREETS AND ROADS AS A RESULT OF CONSTRUCTION ACTIVITY ON THE SITE TO THE SATISFACTION OF THE CITY OF SANTA ROSA.

DENUDED OR DISTURBED SOILS SHALL BE PROTECTED USING BEST MANAGEMENT PRACTICES.

PRIOR TO AND DURING A PRECIPITATION EVENT, PAVED AREAS SHALL BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE IS TO BE MAINTAINED BY THE CONTRACTOR SO THAT A MINIMUM OF SEDIMENT-LADEN RUNOFF LEAVES THE SITE.

THE CONTRACTOR IS TO INFORM ALL CONSTRUCTION SITE WORKERS ABOUT THE MAJOR PROVISIONS OF THE EROSION AND SEDIMENT CONTROL PLAN AND SEEK THEIR COOPERATION IN AVOIDING THE DISTURBANCE OF THESE CONTROL MEASURES.

BEST MANAGEMENT PRACTICES SHALL BE VISUALLY MONITORED ON A DAILY BASIS AND RECORDED IN AN INSPECTION CHECKLIST ON A WEEKLY BASIS. RAIN EVENT VISUAL MONITORING SHALL BE PERFORMED WITHIN 48 HOURS PRIOR TO AN ANTICIPATED RAIN EVENT, DAILY DURING A RAIN EVENT AND WITHIN 48 HOURS FOLLOWING A RAIN EVENT. REMOVE SEDIMENTS WHEN ACCUMULATIONS REACH 1/3 THE HEIGHT OF THE BARRIER AND REPLACE FILTER DEVICES AS NECESSARY TO ENSURE PROPER FUNCTION.

UNSTABILIZED AREAS SHALL BE REPAIRED AS SOON AS POSSIBLE AFTER BEING DAMAGED

GRADED OR DISTURBED AREAS SHALL BE STABILIZED IMMEDIATELY AFTER GRADING IS COMPLETE.

ENTRANCE TO THE PROJECT SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT INTO PUBLIC RIGHTS-OF-WAY. WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE INTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED IT SHALL BE DONE IN AN AREA STABILIZED WITH CRUSHED ROCK THAT DRAINS INTO A SEDIMENT TRAP.

SEDIMENT SPILLED, DROPPED, OR TRACKED INTO PUBLIC RIGHTS-OF-WAY SHALL BE REMOVED IMMEDIATELY USING BEST MANAGEMENT PRACTICES.

EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR PURPOSE SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REPAIRED OR REPLACED WHEN THEY ARE NO LONGER FUNCTIONING IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES.

THE CONTRACTOR SHALL DISPOSE OF UNUSED CONSTRUCTION MATERIALS AND WASTE PRIOR TO THE COMPLETION OF CONSTRUCTION.

AFTER CONSTRUCTION IS COMPLETE, STORM DRAIN SYSTEMS ASSOCIATED WITH THIS PROJECT SHALL BE INSPECTED AND CLEARED OF ACCUMULATED SEDIMENTS AND DEBRIS.

GRADED AREAS TO BE SEEDED FOR EROSION CONTROL SHALL USE GRASS SEED AT THE RATE OF 75-100 POUNDS PER ACRE. SEEDED AREAS SHALL BE IRRIGATED TO ENSURE COVER IS ROOTED.

![](_page_13_Figure_27.jpeg)

![](_page_14_Figure_0.jpeg)

![](_page_14_Figure_3.jpeg)

![](_page_15_Figure_0.jpeg)

![](_page_15_Figure_5.jpeg)

![](_page_15_Figure_6.jpeg)

	C * REGISTER	No. C	ESSIONAL A DONES 80868 VIL CALIFOR	CHARLER * 11. 6/5/2023	
			Rosa		
		City of	Santa		
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		200 4th STREET SUITE 300	SANIA ROSA, CA 954( (707) 583-8500 www.bkf.com		
EXISTING POOL DECK SURFACE					ב- ב
EXISTING BASE COURSE				REVISION	
DECK SECTIONS SHOWN, INCLUDING REINFORCING AND MATERIAL ASED ON RECORD DRAWINGS. ACTUAL SECTION MAY DIFFER. TING POOL DECK SLAB					
				ND DATE	
EXISTING POOL DECK SURFACE REMOVE EXISTING CONCRETE AND REINFORCING			/2023	NWOHS	
RSE INEXISTING BASE COURSE	DWN BY: BL	СНК ВҮ: ВD	DATE: 6/9,	SCALE: AS	
_ DECK SLAB REMOVAL					
NEW POOL DECK SURFACE	JATIC CENTER	OJECT	C8.1	CTION DETAILS	
EW POOL DECK SLAB	FINLEY AQL			CONSTRU	
ROUTINE MAINTENANCE WORK NO SCALE	C 16 FILE	CONTR CO2 OF NO. 2	ACT N 2336 <del>-</del> 6 2022-	0. 58 -014	-

	COLOR: STANDARD GREY			LOCATE AS SHOWN, AT
. 🗸 .	POOL DECK PAVING B FINISH: MEDIUM BROOM			ALL CHANGES IN PAVING
	COLOR: PEWTER 860 S.C.D. FOR SECTION		Ŧ	JURELINE
	PEDESTRIAN CONCRETE PAVING A	2		
5	FINISH: MEDIUM BROOM COLOR: SOUTHERN BLUSH 10134	L4.2	IBD	IO BE DETERMINED
		$\overline{)}$	SP	SPACING
	FINISH: MEDIUM BROOM	L4.2	- <del>\$</del> -	POINT OF BEGINNING
		$\overline{)}$	F.O.B.	FACE OF BUILDING
+ + + + + + + + + + + + + + + + + + +	FINISH: MEDIUM BROOM	$\left( \begin{array}{c} 2 \\ L4.2 \end{array} \right)$	TYP.	TYPICAL
+ + + +	AVAIL: SILICA SYSTEMS INC.	Ŭ	EQ.	EQUAL
	760-232-4635		CONT.	CONTINUOUS
	<u>SPLASH PAD PAVING B - NO LAMP BLACK</u> FINISH: MEDIUM BROOM	$\begin{pmatrix} 2 \\ L4.2 \end{pmatrix}$	S.C.D.	SEE CIVIL'S DRAWINGS
	INTEGRAL COLOR: TRINIC COBALT BLUE (0.5%) AVAIL: SILICA SYSTEMS INC.	$\smile$	S.A.D.	SEE ARCHITECT'S DRAWI
	760-232-4653	$\frown$	S.S.D.	SEE STRUCTURAL'S DRAV
	SPLASH PAD PAVING C - NO LAMP BLACK FINISH: MEDIUM BROOM	$\begin{pmatrix} 2 \\ L4.2 \end{pmatrix}$	SIM	SIMILAR
	INTEGRAL COLOR: TRINIC COBALT BLUE (2.5%) AVAIL: SILICA SYSTEMS INC.	$\bigcirc$	R	RADIUS - ALL RADII GIVE
	760-232-4653		$\sim$	DIMENSIONED TO OUTSIDE
	SPLASH PAD PAVING D - NO LAMP BLACK	$\begin{pmatrix} 2 \\ 1 \\ 4 \\ 2 \end{pmatrix}$	ę ——	CENTER LINE
	INTEGRAL COLOR: TRINIC COBALT BLUE (5%)		PL	PROPERTY LINE
	760-232-4653	$\frown$	EQ	EQUAL
$\psi$ $\psi$ $\psi$ $\psi$	SYNTHETIC TURF MFR: SYNLAWN	$\begin{pmatrix} 1 \\ 14.3 \end{pmatrix}$	[PA]	PLANTING AREA
$\checkmark$ $\checkmark$ $\checkmark$	MODEL: SYNAUGUSTINE 347			I AWN
	SPLASH PAD TRENCH DRAIN CISTERN SYSTEM			
		$\frown$		HEADER BOARD
	<u>6"X12" CURB</u> FINISH: MEDIUM BROOM	$\begin{pmatrix} 1 \\ L4.2 \end{pmatrix}$	WATER	? PLAY FFAT
	COLOR: STANDARD GREY	$\overline{}$	*SEE WET PLA	Y PLAN SHEET AQ2-1 FOR AD
	FINISH: MEDIUM BROOM	L4.3	1	POLY PALM
	COLOR: STANDARD GRET	Ú		MFR: WATER MODEL: POL
	MFR: WAUSAU TILE MODELS:		Ŧ	COLOR: LEA
A (	A) ZB.GL.01 D) ZB.GL.04		1	
E	C) ZB.GL.03 F) ZB.GL.06			INSTALL PEI
$\mathcal{O}$	FINISH/COLOR: ACID WASH A30 SURFACE MOUNT PER MFR SPECIFICATIONS		20	POLY PALM
	CONCRETE BENCH			MODEL: POL SIZE: HEI
	MODEL: ZB.CE.02 + ZB.CE.03 CONNECTED			COLOR: ACF
	SURFACE MOUNT PER MFR SPECIFICATONS		1	PHONE: 1-4 INSTALL PE
and a start	RAISED PLANTER FINISH MEDIUM BROOM	$\begin{pmatrix} 4 \\ 142 \end{pmatrix}$		
had the	COLOR: STANDARD GREY	LT.Z		SURF CANN MFR: WATER
1/2	ACCESSIBLE PICNIC TABLE MFR: BELSON			SIZE: 43'
	MODEL: 238H–SR8 (ADA) COLOR: DARK GREY FRAME, ULTRA BLUE TOP		T	CULOR: ACI
	FREESTANDING, NO ANCHORING			ACF
	MFR: BELSON			
×	COLOR: DARK GREY FRAME, ULTRA BLUE TOP			ROTATION T
	NO DIVING SIGNS	(2)	R.	SURFBAORD MFR: WATEF
		L4.5	1.00	MODEL: SUF SIZE: 90'
	POOL DECK DEPTH	$\begin{pmatrix} 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 5 \\ 1 \\ 1 \\ 5 \\ 1 \\ 1$		COLOR: ACF COL
		L4.5		PHONE: 1-4 INSTALL PEI
<b></b>	7' HT METAL FENCE	$\begin{pmatrix} 1 \\ L4.4 \end{pmatrix}$		TEAM FEFE
	MECHANICAL EQUIPMENT ROOM	$\smile$	nton Midfil	MFR: WATER MODEL: TEA
	SEE ARCHITECTURAL, STRUCTURAL AND AQUATICS DRAWINGS		1111	PHONE: 1-4 INSTALL PE
		$\frown$		GROUP VOL MFR: WATER
	SHADE SAU 'A'	( 1 V 4		
	SHADE SAIL 'A'	L4.7 L4.3		MODEL: GRO PHONE: 1-8
	<u>Shade Sail 'A'</u>	(1) 4 L4.7 L4.3		MODEL: GRO PHONE: 1-4 INSTALL PE
	SHADE SAIL 'A'	<u>1</u> <u>4</u> <u>L4.7</u> <u>L4.3</u>		MODEL: GRO PHONE: 1-4 INSTALL PEI WATER-0
	SHADE SAIL 'A'	$\begin{array}{c c} 1 & 4 \\ \hline 1 & 4.3 \\ \hline 1 & 4 \\ \hline 1 & 4 \\ \hline 1 & 4 \\ \hline 1 & 5 \\ \hline \end{array}$		MODEL: GRO PHONE: 1-4 INSTALL PEI WATER-O MFR: WATER MODEL: WA

# ABBREVIATIONS

T ALL JOINTS	
LS. AND AT	
MATERIAL.	

DRAWINGS L'S DRAWINGS

RADII GIVEN FOR WALLS ARE OUTSIDE OF WALLS.

# EATURES

1 FOR ADDITIONAL INFORMATION

OLY PALM COCO FR: WATERPLAY SOLUTIONS CORP. IODEL: POLY PALM COCO 0010-3555 E: 60" HEIGHT OLOR: LEAVES - GREEN URETHANE BUCKET – BEIGE URETHANE COLUMN – BEIGE RAL 1001 IONE: 1-800-590-5552 STALL PER MFG SPECS

DLY PALM R: WATERPLAY SOLUTIONS CORP. ODEL: POLY PALM COCO 0010-1680 e: Height OLOR: ACRYLIC LEAVES - GREEN COLUMN – BROWN RAL 8028 IONE: 1-800-590-5552 STALL PER MFG SPECS

RF CANNON R: WATERPLAY SOLUTIONS CORP. DDEL: SURF CANNON 0010-1457 : 43" HEIGHT OLOR: ACRYLIC PANEL - RED COLUMN – BLACK RAL 9005

ACRYLIC PANEL – ORANGE COLUMN - WHITE IONE: 1-800-590-5552

STALL PER MFG SPECS, ADJUST SPRAY PATTERN AND DEVICE OTATION TO ENSURE NO OVERSPRAY ONTO ACCESSIBLE WALK

URFBAORD FR: WATERPLAY SOLUTIONS CORP. IODEL: SURFBOARD 0010-0949 e: 90" height DLOR: ACRYLIC PANEL - YELLOW COLUMN – GREY RAL 7040 IONE: 1-800-590-5552 STALL PER MFG SPECS

EAM EFFECT FR: WATERPLAY SOLUTIONS CORP. ODEL: TEAM EFFECT 0010-9816 IONE: 1-800-590-5552 ISTALL PER MFG SPECS

ROUP VOLCANO FR: WATERPLAY SOLUTIONS CORP. ODEL: GROUP VOLCANO (0010–7495) HONE: 1-800-590-5552 STALL PER MFG SPECS

ATER-O TR: WATERPLAY SOLUTIONS CORP. DDEL: WATER-0 (0010-0369) ZE: 79" HEIGHT OLOR: FERN, YELLOW, FOREST, MELON HONE: 1-800-590-5552 INSTALL PER MFG SPECS

MODEL     MATERY ALL 3 (2010–592)     A     APPER     NG     NO     NO IN CONTRACT       COURD     MODEL     MAILE     - MAILE	ACTOR INSTALLED
COLDE COLLIMA & ARKS - DRAVE     AC     APPAIL CORRECT     NO.     NUMBER       GYANELS - VELLOW     AF.F.     ASOVE FINISED GRADE     NTS     NO TO SOLE       BENDY BUCKT - YELLOW     BOW     BACK OF MALK     O.C.     OK CENTER       PADDLE WHEL - YELLOW     BOW     BACK OF MALK     O.C.     OK CENTER       PADDLE WHEL - YELLOW     BS     BOTTOM OF STAR     OFO     OWNER TURNSHED, CONTR       PADDLE WHEL - YELLOW     BS     BOTTOM OF STAR     OFO     OWNER TURNSHED, CONTR       PADDLE WHEL - YELLOW     BS     BOTTOM OF STAR     OFO     OWNER TURNSHED, CONTR       PHORE PADDLE WELL - YELLOW     BS     BOTTOM OF STAR     OFO     OWNER TURNSHED, CONTR       PHORE ANDEL - LICHT URLE     BS     BOTTOM OF STAR     OFO     OWNER TURNSHED, CONTR       PHORE FARMER A' SOLUTIONS CORF.     C     CONDUTT     PL     PROPOSED       SZE: 14-10* HOGHT     GOLD SY SOLKET - FEACH BAIL & REMARY COLORS     CB     CATCH BAIN (VILL)     PV     PV/UNC. CHLORIDE       SZE: 14-10* HOGHT     GOLD AND CENT - FEACH BAIL & REMARY COLORS     CB     CATCH BASIN (VILL)     PV     PV/UNC. CHLORIDE       SZE: 14-10* HOGHT     GOLD AND CENT - FEACH BAIL & REMARY COLORS     CB     CATCH BASIN (VILL)     PR     RADUS       SZE: 100 FIERDH     GOLD AND CEN	ACTOR INSTALLED
WALER WIEL - YELLOW     AF.F.     ABDYE INSTALL OR WALK     N.S.     NOT ID SCALL       PROCE WIEL - YELLOW     BOW     BACK OF WALK     O.C.     ON CENTER       PADDEL WIEL - YELLOW     BOW     BACK OF WALK     O.C.     ON CENTER       PADDEL WIEL - YELLOW     BOW     BACK OF WALK     O.C.     ON CENTER       PADDEL WIEL - YELLOW     BS     BOTTOM OF STAR     OC     OWNER LINING AREA       PROFE WIEL - YELLOW     BS     BOTTOM OF STAR     PAD     PLANTING AREA       WISTAL FEW WIG SPECS     BW     BOTTOM OF WALL     PA     PLANTING AREA       WISTAL FEW WIG SPECS     BW     BOTTOM OF WALL     PA     PLANTING AREA       WISTAL FEW WIG SPECS     BW     BOTTOM OF WALK     PA     PLANTING AREA       WISTAL FEW WIG SPECS     BW     BOTTOM OF WALK     PA     PLANTING AREA       WISTAL FEW WIG SPECS     BOCK COURN & BUCKET SUPPORTS - RED RAL 3001     CMU     CONCETE MASONRY UNIT     (R)     RADIUS       WISTAL FEW WIG SPECS     MICH WIGE SPECS     CONC.     CONCRETE MASONRY UNIT     (R)     RADIUS       WISTAL FEW WIG SPECS     CONT     CAL     CONCRETE SPECS     SLOPE     SLOPE       WISTAL FEW WIG SPECS     CONT     CAL     CONCRETE SPECS     SLOPE     SLOPE       WI	ACTOR INSTALLED ETE NGS
BENOT BUCKET - YELLOW     BOW     BADK 0F WALK     D.C.     ON CANTER       PRODER WHEEL - LUEW     BS     BOTTOM OF WALL     PA     PLANTING AREA       PRODER WHEEL - LUEW     BS     BOTTOM OF WALL     PA     PLANTING AREA       PRODER WHEEL - STALLOW     BW     BOTTOM OF WALL     PA     PLANTING AREA       PRODE WHEEL - STALLOW     BW     BOTTOM OF WALL     PA     PLANTING AREA       WODEL SKY SOAKER     C     CONDUIT     PL     PROPERTY LINE       WODEL SKY SOAKER     BKX SOAKER     CLC     CONDUIT     PL     PROPERTY LINE       WODEL SKY SOAKER     BEAK SOLUNG ALL SUPPORTS RED RAL 3001     CAC     CURUM AND CURENT CONES     CB     CALCO CURUM AND CURENT CONES       BACK COLUNN A BUCKET - DEPART BALL & PRIVARY COLORS     CB     CALCO CURCRETE MASONRY UNIT     (R)     REDCATED       FROMT COLUNN A BUCKET - RED RAL 3001     CON     CONC.     CONCRETE MASONRY UNIT     (R)     REDCATED       FROMT COLUNN A BUCKET - DOPORTS - RED RAL 3001     CON     CONC.     CONCRETE     S     SLOPE       COLOR ARTIL PER WIFE SPECTS     CON     CONCRETE MASONRY UNIT     (R)     REDCATED       FROMT COLUNN A BUCKET PER ANTERNA AND     CONC     CONCRETE     S     SLOPE       COLOR ARTILE DEF WIFE SPECTS     CONTROL     C	ACTOR INSTALLED
PADDLE WHEE, 1 - LICH TELLE PADDLE WHEE, 2 - LEULOW PROME 1 - 200-1580-5532 PROME 1 - 200-580-5532 PROME 1 - 200-5532 PROME 1 - 200-5	ACTOR INSTALLED
PHONE:     L-BBO-580-5552     BW     BOTTOM OF WALL     PA     PLANING AREA       STXLL PER WS SPECS     BW     BOTH WAYS     PCC     PORTLAND CENENT CONCR       WTE: WATEFPLAY SOLUTIONS CORP.     C     COMPAND     CURB AND UTTER     PR     PROPOSED       SZC: 14 <sup>4-10</sup> rEICHT     ELOCATE ACACH BALL & RPIMARY COLORS     CB     CURB AND UTTER     PR     PROPOSED       SZC: 14 <sup>4-10</sup> rEICHT     ELOCATE ASCALDAN RUTS SUPPORTS RED RAL 3001     CB     CARG MULL (CHUL)     PVC     PULY WAYL CHURDRE       CORD REACT SASLAGE     SUPPORTS RED RAL 3001     CMU     CONCRETE MASONRY UNIT     (R)     RELOCATED       PHONE: 1-800-590-5552     CONC     CONCRETE     SLOPE     SLOPE       CORD: 1-800-590-5552     CONC     CONCRETE     SLOPE     SLOPE       WTE: WATEFPLAY SOLUTIONS CORP.     CP     CONTROL POINT     S.A.D.     SEE ARCHITECTURAL DRAWNOS       VIETHERS - DOLINN     CORP. ACATLO CURE ROOV - UGHT BLUE     CONCRETE     SLOPE     SLOPE       VIETHERS - DULINN     CORP. SPECS AULL STAPPORTS     CP     CONTROL POINT     S.A.D.     SEE ARCHITECTURAL DRAWNOS       SZE: 2' 10' HORHT     SCIOLUMN - BLUE RAL 5015     CD.     CFL     CONTROL POINT     S.A.D.     SEE ELECTRICAL DRAWNOS       SZE: 2' 10' HORHT     CORP.     CFL     C	ETE NGS
BW     BOTH WAYS     PCC     PRILAND CEMENT CONST       WT:     WATERPLAY SOLUTIONS CORP.     C     CONDUIT     PL     PROPOSED       SZZ:     14-10° HEIGHT     CAGG     CUNB AND GUTTER     PR     PROPOSED       SZZ:     14-10° HEIGHT     CONCR     CAGG     CUNB AND GUTTER     PR     PROPOSED       SZZ:     14-10° HEIGHT     CONCR     CAGG     CUNB AND GUTTER     PR     PROPOSED       SZZ:     14-10° HEIGHT     CONCR     CAGG     CUNB AND GUTTER     PR     PROPOSED       SZZ:     14-10° HEIGHT     CONCR     CAGG     CUNCH AND GUTTER     PR     PROPOSED       GACK     COLLMA & BUCKET - BEACH BAL & RPIMARY COLORS     CB     CATCH BASIN (QVIL)     PVC     POLY VINYL CHLORIDE       APACAS HURE - STACES     SAPLASH PLATE - STED RAL 3001     CAUC     CONCRETE     S     SLOPE       PHONE:     HORD SOND     COP     CONTROL POINT     S.A.D.     SEE ARCHTECTURAL DRAW       MODE NOTTITES - DOLPHIN     CALL     CONTROL POINT     S.A.D.     SEE COLUMA RAWINGS       SZE:     2'''' ICHERHT COLUME BODY - LICHT BLUE     CONTROL POINT     S.A.D.     SEE COLUMA RAWINGS       SZE:     2''''' ICHERHT     COLUMA - BLUE RAL 5015     (E). EXIST     EXISTING     S.LD.     SEE C	ETE
MR. WARE VS SQUIPONS CORP.     C     CONDUIT     PL     PROPERTY LINE       MOR. WARE WARE DOID-4592 SIM SZE: 14'-10' HELEMI     C&G     CURB AND GUTTER     PR     PROPOSED       SZE: 14'-10' HELEMI     EACH COLUMN & BUCKET SUPPORTS: RED RAL 3001     CB     CATCH BASIN (CIVIL)     PVC     POLY VINT CHLORIDE       GOOR ACFRU COLUMN & BUCKET SUPPORTS: RED RAL 3001     CM     CONCETE MASONRY UNIT     (R)     RELOCATED       MR. WARE VS COLUMN & BUCKET SUPPORTS - RED RAL 3001     CM     CONCETE MASONRY UNIT     (R)     RELOCATED       PHOME: 1-800-530-5523     CONC.     CONC     CONCETE     S     SLOPE       MR: WAREP VS CULTONS COPP.     CP     CONC     CONCETE     S.A.D.     SEE ARCHTECTURAL DRAW       MORE: COTTERS (0010-5869)     CTRL     CONC     CONCETE     S.A.D.     SEE ARCHTECTURAL DRAW       MR: WAREP VS CULTONS COPP.     CFRL     CP     CONTROL POINT     S.A.D.     SEE ARCHTECTURAL DRAW       MORE: COTTERS (0010-5869)     CTRL     CONTROL     CONTROL     S.C.D.     SEE CONL DRAWINGS       VER. YOL HEIGHT     CONC     CONNE TE     S.D.     SEE ARCHTECTURAL DRAW       MORE: COTTERS (0010-5869)     CTRL     CONTROL     S.C.D.     SEE ARCHTECTURAL DRAW       VERT YOUND CONSTRUCT     EL ELECATICAL     S.D.     SEE ARCHTECTURAL DRA	NGS
MODE:     Shi JUARKE 0010-492 JM     C&G     CURB AND CUTTER     PR     PROPOSED       Image:     ATTULE BUCKT - BEACH BAIL & FMMARY COLORS BACK COLUMN & BUCKT - BEACH BAIL & SPMARY COLORS COOS BACES ASPLACE SUPPORTS - RED RAL 3001     CM     CONCRETE MASONRY UNIT     (R)     RELOCATED       PHONE:     1-BOO-SUDARS - RED RAL 3001     CM     CONCRETE MASONRY UNIT     (R)     RELOCATED       PHONE:     1-BOO-SUDARS - RED RAL 3001     CM     CONCRETE MASONRY UNIT     (R)     RELOCATED       PHONE:     1-BOO-SUDARS - RED RAL 3001     CO     CLEAN OUT (CML)     R     RADUS       PHONE:     1-BOO-SUDARS - RED RAL 3001     CO     CLEAN OUT (CML)     R     RADUS       PHONE:     1-BOO-SUDARS - RED RAL 3001     CO     CLEAN OUT (CML)     R     RADUS       PHONE:     1-BOO-SUDARS - RED RAL 3001     CO     CLEAN OUT (CML)     R     RADUS       PHONE:     1-BOO-SUDARS - RED RAL 3001     CO     CLEAN OUT (CML)     R     RADUS       PHONE:     1-BOO-SUDARS - RED RAL 3001     CO     CONTROL POINT     S.A.D.     SEE CILE CREATED       PHONE:     1-BOO-SUDARS - RED RAL 3015     CTRL     CONTROL POINT     S.A.D.     SEE CILL CREATED       INSTALL PER MES SPECS     COLOR ACTICE OUTER BODY - UGHT BUCK     CTRL     CONTROL     S.D.     SEE PLUMBING	NGS
CULUR: ADVICE BUCKET = DEACH BALL & RYMARY OLLOWS     CB     CATCH BASIN (CIVIL)     PVC     POLY WNYL CHLORIDE       BACK DUINN & BUCKET SUPPORTS = NED RAL 3001     APLASH PLATE - YELLOW     CMU     CONCRETE MASONRY UNIT     (R)     RELOCATED       PHONE 1-BOC-590-5552     CONC     CONCRETE MASONRY UNIT     (R)     RELOCATED       PHONE 1-BOC-590-5552     CONC     CONCRETE     S     SLOPE       RITTERS - DOUPHIN     CORT     S.A.D.     SEE ARCHTECTURAL DRAW       MRE: WATERPLAY SOLUTIONS CORP.     CP     CONTROL     S.C.D.     SEE ARCHTECTURAL DRAW       MODEL: CRITERS (DOUT-BBS0)     CTRL     CONTROL     S.C.D.     SEE ARCHTECTURAL DRAW       SZE: Z' 10" HEIGHT     CULUR RAUTER BODY - LIGHT BLUE     CTRL     CONTROL     S.C.D.     SEE ELCTRICAL DRAWINGS       NODEL: CRITERS (DOUT-BBS0)     CTRL     CONTROL     S.C.D.     SEE ELCTRICAL DRAWINGS       NISTALL PER MCS SPECS, ADUST SPRAY PATTERN AND     E.W.     EACH WAY     S.P.D.     SEE FLUMBING CONSULTAN       NOTALLE CRITERS (DOUT-BBS0)     EL     ELCTRICAL     S.W.D.     SEE WATERPROPRING CONSULTAN       NOTALL CRITERS (DOUT-BBS0)     EL     ELCATIN     SB     SANDBLAST       SZE: Z' 10" HEIGHT     SCO     SUBMIN STRAWARY SOUTIONS CORP.     EL     ELCATHEAL     S.W.D.     SEE WATERPROPRING CONSUL	NGS
APLASH PLATE - TELLUW CROSS BRACES 4SP12ASH PLATE SUPPORTS - RED RAL 3001       CMU       CONCRETE MASONRY UNIT       (R)       RELOCATED         FRONT COLUMNS - RED RAL 3001       CO       CLEAN OUT (CIVL)       R       RADIUS         PHONE: 1-800-590-552       CONC.       CONCRETE       S       SLOPE         CRITERS - DOLPHIN       CONC.       CONCRETE       S       SLOPE         COLC.       CONTROL POINT       S.A.D.       SEE ARCHTECTURAL DRAW         MODEL: CRITERS (0010-8869)       CTRL       CONTROL       S.C.D.       SEE COLL DRAWINGS         SZE: 21 01 HEIGHT       COLUMN FATURE BODY - ILGH ELUE       CONTROL       S.C.D.       SEE ELECTRICAL DRAWINGS         LOWER COLUMN - BAUE RAL 5015       E       ELECTRICAL       S.S.D.       SEE STRUCTURAL DRAWINGS         NISTAL PER WFG SPECS, ADJUST SPRAY PATTERN AND       E.W.       EACH WAY       S.P.D.       SEE PLUMBING CONSULTAN         ACCESSIBLE WALK       CONTROL POINT TO ENSURE NO OVERSPRAY ONTO       E.W.       EACH       S.W.D.       SEE WATERPROOFING CONSULTAN         MODEL: CRITERS (0010-9890-552       E       ELECTRICAL       S.W.D.       SEE NADELAST         MODEL: CRITERS (0010-9850)       EL       ELEVATION       SB       SANDBLAST         SZE: 210' HEIDHT       COUCH AFTURE	NGS
HCMT COLUMNS - RED KRL3 JOUT       CO       CLEAN OUT (CIVIL)       R       RADUS         PHORE: 1-600-590-5525       CONC.       CONCRETE       S       SLOPE         INSTALL PER WIG SPECS       CONC       CONCRETE       S       SLOPE         INSTALL PER WIG SPECS       CONC       CONCRETE       S       SLOPE         INSTALL PER WIG SPECS       CONC       CONTROL POINT       S.A.D.       SEE ARCHITECTURAL DRAW         MODE: CRITERS (0010-8869)       CTRL       CONTROL       S.C.D.       SEE OVIL DRAWINGS         SZE:       21 OF HEGHT       COLOR: ACRVIC OUTER BODY - LIGHT BLUE       CONTROL       S.C.D.       SEE ELECTRICAL DRAWINGS         LOWER COLUMN - ELLIE RAIL 5015       (E), EXIST       EXISTING       S.E.D.       SEE ELECTRICAL DRAWINGS         UNKER COLUMN - ELLIE RAIL 5015       (E), EXIST       EXISTING       S.S.D.       SEE STRUCTURAL DRAWINGS         UNKER COLUMN - ELLIE RAIL 5015       (E), EXIST       EXISTING       S.S.D.       SEE PLUMBING CONSULTAN         COLOR: ACRVIC OUTER BODY - MULE RAIL 5015       (E), EXIST       EXACH       S.M.D.       SEE PLUMBING CONSULTAN         COLOR: ACRVIC OUTER BODY - GREEN       CONTROL       EA       EACH       S.W.D.       SEE PLUMBING CONSULTAN         MODE: CRITERS (010-8930-	NGS
INISTALL PER WIG SPECS     CONC.     CONCRETE     S     SLOPE       CRITTERS - DOLPHIN     CP     CONTROL POINT     S.A.D.     SEE ARCHITECTURAL DRAW       WODEL: CRITTERS (0010-8869)     CTRL     CONTROL     S.C.D.     SEE ARCHITECTURAL DRAWINGS       SZE:     2'10' HEIGHT     CRITTERS - DOLPHIN     S.C.D.     SEE OVIL DRAWINGS       WODEL: CRITTERS (0010-8869)     CTRL     CONTROL     S.C.D.     SEE OVIL DRAWINGS       UPPER COLUMN - BLUE RATURE BODY - BLUE RAL 5015     (E). EXIST     EXISTING     S.E.D.     SEE ELECTRICAL DRAWINGS       NOTOR     OUTER COLUMN - BLUE RAL 5015     E     ELECTRICAL     S.S.D.     SEE STRUCTURAL DRAWINGS       INSTALL PER WIG SPECS, ADJUST SPRAY PATTERN AND     E     E     ELECTRICAL     S.S.D.     SEE WATERPROOFING CONSULTAN       METTERS - TURTLE     MRT: WATERPLAY SOLUTIONS CORP.     EA     EACH     S.W.D.     SEE WATERPROOFING CONSULTAN       MODEL: CRITTERS (0010-8950)     EL     ELEVATION     SB     SANDBLAST       SZE:     2'10' HEIGHT     EQ     EQUAL     SP     SPACING       COOR: CRYLIC OUTER BODY - GREEN     EQ     EQUAL SPACES     SD     STORM DRAIN       LOWER COLUMN & FEATURE BODY - FERN RAL 6018     ES     EQUAL SPACES     SD     STORM DRAIN       LOWER COLUMN & FEATURE BO	NGS
WITR: WATERFLAY SOLUTIONS CORP.       CP       CONTROL POINT       S.A.D.       SEE ARCHITECTURAL DRAW         WODEL: CRITTERS (Q010-8869)       CTRL       CONTROL       S.C.D.       SEE CIVIL DRAWINGS         SZE:       2'10' HOGHT       CLOT BODY - BLUE RAL 5015       (E), EXIST       EXISTING       S.E.D.       SEE ELECTRICAL DRAWINGS         UWER COLUMN - BLUE RAIL 5015       (E), EXIST       EXISTING       S.E.D.       SEE STRUCTURAL DRAWINGS         PHONE: 1-800-590-5552       E       ELECTRICAL       S.S.D.       SEE STRUCTURAL DRAWINGS         VITTERS - TURTLE       CONTROL POINT       S.M.D.       SEE ARCHITECTURAL DRAWINGS         MITE: WATERFLAY SOLUTIONS CORP.       E       ELECTRICAL       S.S.D.       SEE PLUMBING CONSULTAN         ACCESSIBLE WALK       CRITTERS - TURTLE       EA       EACH       S.W.D.       SEE WATERPROOFING CONS         WITE: WATERFLAY SOLUTIONS CORP.       EL       ELEVATION       SB       SANDBLAST         WODEL: CRITTERS (0010-8950)       SIZE: 2'10' HOGHT       EQ       EQUAL       SP       SPACING         SIZE: 2'10' HOGHT       COLOWAN & FEATURE BODY - FERN RAL 6018       ES       EQUAL SPACES       SD       STORM DRAIN         UPPER COLUMN & FEATURE BODY - HERN RAL 6018       ES       EQUAL SPACES       SD <td>'NGS</td>	'NGS
WIDDLE       CMTUE       CMTUE       CARL       CONTROL       S.C.D.       SEE CIVIL DRAWINGS         SZE:       2' 10" HEIGHT       CIRL       CONTROL       S.C.D.       SEE CIVIL DRAWINGS         UPER COLUMN - BLUE RAL 5015       (E), EXIST       EXISTING       S.E.D.       SEE ELECTRICAL DRAWINGS         UPER COLUMN - BLUE RAL 5015       E       ELECTRICAL       S.S.D.       SEE STRUCTURAL DRAWINGS         UPER COLUMN - BLUE RAL 5015       E       ELECTRICAL       S.S.D.       SEE PLUMBING CONSULTAN         NSTALL PER MFG SPECS, ADJUST SPRAY PATTERN AND       E.W.       EACH WAY       S.P.D.       SEE WATERPROOFING CONSULTAN         ACCESSBUE WALK       CRITTERS (SOID-9550)       EL       EL       ELEVATION       SB       SANDBLAST         MODEL:       CONTROL       SEE OVIL DURE BODY - GREN       EL       ELEVATION       SB       SANDBLAST         VOPER COLUMN & FEATURE BODY - GREN       EQ       EQUAL       SP       SPACING         UPER COLUMN & FEATURE BODY - FERN RAL 6018       ES       EQUAL SPACES       SD       STORM DRAIN         LOWER COLUMN & FEATURE BODY - GREN       LOWER COLUMN & FEATURE BODY - GREN       FO.B.       FACE OF BUILDING       SDMH       STORM DRAIN CLEANOUT         NOREL:       CONTROL & SPECS, ADJUST S	
COUR: ACKTIGE OUTER BUDT - LIGHT BLUE       CHITTER CALL DATA BUDE       CRITTERS (CALL DATA BUDE       CRITTERS (CALL DATA BUDE       SEE D.       SEE ELECTRICAL DATAWINGS         UPPER COLUMN - BLUE RAIL 5015       E       ELECTRICAL       S.S.D.       SEE STRUCTURAL DRAWINGS         PHONE: 1-800-590-5552       E       ELECTRICAL       S.S.D.       SEE STRUCTURAL DRAWINGS         INSTALL PER MEG SPECS, ADJUST SPRAY PATTERN AND DEVICE ROTATION TO ENSURE NO OVERSPRAY ONTO ACCESSIBLE WALK       EA       EACH       S.W.D.       SEE WATERPROOFING CONSULTAN ACCESSIBLE WALK         INFR: WATERPLAY SOLUTIONS CORP.       EL       ELEVATION       SB       SANDBLAST         MODEL: CRITTERS (0010-8950)       SIZE: 2' 10' HEIGHT       EQ       EQUAL       SP       SPACING         SIZE: 2' 10' HEIGHT       COLOR: ACPLIC OUTER BODY - FERN RAL 6018       ES       EQUAL       SP       STORM DRAIN         UPPER COLUMN & FEATURE BODY - FERN RAL 6018       ES       EQUAL SPACES       SD       STORM DRAIN         UPPER COLUMN & FEATURE BODY - FERN RAL 6018       ES       EQUAL SPACES       SD       STORM DRAIN         UPPER COLUMN & FEATURE BODY - FERN RAL 6018       ES       EQUAL SPACES       SD       STORM DRAIN CLEANOUT         INSTALL PER MEG SPECS, ADUST SPRAY PATTERN AND DEVICE ROTATION TO OVERSPRAY ONTO ACCESSIBLE WALK       F.O.B.       F	
LUWER COLUMN - ELUC RAL SOTS       E       ELECTRICAL       S.S.D.       SEE STRUCTURAL DRAWING         PHONE: 1-800-590-5552       INSTALL PER MFG SPECS, ADJUST SPRAY PATTERN AND       E.W.       EACH WAY       S.P.D.       SEE PLUMBING CONSULTAN ACCESSIBLE WALK         Image: Construct To the Desure no overspray ONTO ACCESSIBLE WALK       EA       EACH       S.W.D.       SEE WATERPROFING CONSULTAN ACCESSIBLE WALK         Image: Construct To the Desure no overspray ONTO ACCESSIBLE WALK       EA       EACH       S.W.D.       SEE WATERPROFING CONSULTAN ACCESSIBLE WALK         Image: Construct To the Desure no overspray ONTO ACCESSIBLE WALK       EA       EACH       S.W.D.       SEE WATERPROOFING CONSULTAN ACCESSIBLE WALK         Image: Construct To the Desure no overspray ONTO SIZE: 2' 10' HEIGHT       EQ       EQUAL       SP       SPACING         Image: Construct To the BODY - GREEN UPPER COLUMN & FEATURE BODY - FERN RAL 6018       ES       EQUAL SPACES       SD       STORM DRAIN         Image: Construct To the Store no overspray ONTO ACCESSIBLE WALK       F.O.B.       FACE OF BUILDING       SDMH       STORM DRAIN         Image: Construct To the Store no overspray ONTO ACCESSIBLE WALK       F.O.B.       FACE OF BUILDING       SDMH       STORM DRAIN MANHOLD         Image: Construct To the Store no overspray ONTO ACCESSIBLE WALK       F.O.B.       FACE OF CURB       SQ.       SQUARE	
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ACCESSIBLE WALK       EA       EACH       S.W.D.       SEE WATERPROOFING CONS         Image: WATERPLAY SOLUTIONS CORP.       EL       ELEVATION       SB       SANDBLAST         Image: WATERPLAY SOLUTIONS CORP.       EQ       EQUAL       SP       SPACING         SZE:       2'10" HEIGHT       EQ       EQUAL       SP       SPACING         COLOR:       ACRYLIC OUTER BODY - GREEN       EQ       EQUAL SPACES       SD       STORM DRAIN         LOWER COLUMN & FEATURE BODY - FERN RAL 6018       ES       EQUAL SPACES       SDCO       STORM DRAIN         PHONE:       1-800-590-5552       INSTALL PER MFG SPECS, ADJUST SPRAY PATTERN AND DEVICE       F.O.B.       FACE OF BUILDING       SDMH       STORM DRAIN CLEANOUT         INSTALL PER MFG SPECS, ADJUST SPRAY PATTERN AND DEVICE       F.O.B.       FACE OF BUILDING       SDMH       STORM DRAIN MANHOLD         MFR:       WATERPLAY SOLUTIONS CORP.       F.O.B.       FACE OF CUB       SQL       SQLARE         MFR:       WATERPLAY SOLUTIONS CORP.       FC       FACE OF CUB       SQL       SQLARE         MFR:       WATERPLAY SOLUTIONS CORP.       FC       FACE OF CUB       SQL       SQLARE         MFR:       WATERPLAY SOLUTIONS CORP.       FC       FACE OF CUB       SQL <td< td=""><td>T DRAWINGS</td></td<>	T DRAWINGS
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Image: Colorin & Bote Turke Body - FERN RAL 6018       ES       EQUAL SPACES       SD       STORM DRAIN         Image: Colorin & Bote Turke Body - FERN RAL 6018       ES       EQUAL SPACES       SD       STORM DRAIN         Image: Colorin & Bote Turke Body - FERN RAL 6018       ES       EQUAL SPACES       SD       STORM DRAIN         Image: Colorin Bote Turke Body - FERN RAL 6018       ES       EQUAL SPACES       SD       STORM DRAIN         Image: Colorin Bote Turke Body - FERN RAL 6018       ES       EQUAL SPACES       SD       STORM DRAIN         Image: Colorin Bote Turke Body - FERN RAL 6018       ES       EQUAL SPACES       SD       STORM DRAIN         Image: Colorin Bote Turke Body - FERN RAL 6018       ES       EQUAL SPACES       SD       STORM DRAIN CLEANOUT         Install PER MFG SPECS, ADJUST SPRAY PATTERN AND DEVICE ROTATION TO ENSURE NO OVERSPRAY ONTO ACCESSIBLE WALK       F.O.B.       FACE OF BUILDING       SDMH       STORM DRAIN MANHOLD         Image: Colorin To ENSURE NO OVERSPRAY ONTO ACCESSIBLE WALK       F.O.B.       FACE OF CURB       SL       STREET LIGHT         Image: Colorin Terms (0010-8856)       FI       FC       FACE OF CURB       SQ       SQUARE         SIZE: 2' 10" HEIGHT       FO       FINISH GRADE       SS       SANITARY SEWER (CIVIL)         Image: Colorin A CRYLIC OUTER	
PHONE: 1-800-590-5552       EX       EXISTING       SDC0       STORM DRAIN CLEANOUT         INSTALL PER MFG SPECS, ADJUST SPRAY PATTERN AND DEVCE ROTATION TO ENSURE NO OVERSPRAY ONTO ACCESSIBLE WALK       F.O.B.       FACE OF BUILDING       SDMH       STORM DRAIN CLEANOUT         INSTALL PER MFG SPECS, ADJUST SPRAY PATTERN AND DEVCE ROTATION TO ENSURE NO OVERSPRAY ONTO ACCESSIBLE WALK       F.O.B.       FACE OF BUILDING       SDMH       STORM DRAIN MANHOLD         INSTALL PER MFG SPECS, ADJUST SPRAY PATTERN AND DEVCE ROTATION TO ENSURE NO OVERSPRAY ONTO ACCESSIBLE WALK       F.O.B.       FACE OF BUILDING       SDMH       STORM DRAIN MANHOLD         INSTALL PER MFG SPECS, ADJUST SPRAY ONTO ACCESSIBLE WALK       F.O.B.       FACE OF CURB       SL       STREET LIGHT         INFR: WATERPLAY SOLUTIONS CORP.       MFR: WATERPLAY SOLUTIONS CORP.       FC       FACE OF CURB       SQ.       SQUARE         MODEL: CRITTERS (0010-8856)       SIZE: 2' 10" HEIGHT       FG       FINISH GRADE       SS       STAINLESS STEEL         SIZE: 2' 10" HEIGHT       COLOR: ACRYLIC OUTER BODY - YELLOW       FH       FIRE HYDRANT       SS       SANITARY SEWER (CIVIL)         LOWER COLUMN & FEATURE BODY - ORANGE RAL 2011       FH       FL       FLOW LINE       SSCO       SANITARY SEWER CLEANOU         PHONE: 1-800-590-5552       FL       FL       FLOW LINE       SSCO       SANITARY	
INSTALL FERVING SPECS, ADJOST SPRAT PATIENT AND DEVICE ROTATION TO ENSURE NO OVERSPRAY ONTO ACCESSIBLE WALK       F.O.B.       FACE OF BUILDING       SDMH       STORM DRAIN MANHOLD         Image: CRITIERS - STARFISH MFR: WATERPLAY SOLUTIONS CORP.       (F), FUT       FUTURE       SL       STREET LIGHT         MODEL: CRITTERS (0010-8856) SIZE: 2' 10" HEIGHT COLOR: ACRYLIC OUTER BODY - YELLOW UPPER COLUMN & FEATURE BODY - ORANGE RAL 2011       FG       FINISH GRADE       SS       STAINLESS STEEL SS         PHONE: 1-800-590-5552       FL       FL       FL       FL       FL       SSCO       SANITARY SEWER CLEANOU	
CRITTERS - STARFISH MFR: WATERPLAY SOLUTIONS CORP. MODEL: CRITTERS (0010-8856) SIZE: 2' 10" HEIGHT COLOR: ACRYLIC OUTER BODY - YELLOW UPPER COLUMN & FEATURE BODY - ORANGE RAL 2011FCFACE OF CURBSQ.SQUAREFGFINISH GRADESSSTAINLESS STEELCOLOR: ACRYLIC OUTER BODY - YELLOW UPPER COLUMN & FEATURE BODY - ORANGE RAL 2011FHFIRE HYDRANTSSSANITARY SEWER (CIVIL)PHONE: 1-800-590-5552FLFLOW LINESCOSANITARY SEWER CLEANOU	
CRITIERS - STARTISH       FC       FACE OF CURB       SQ.       SQUARE         MFR: WATERPLAY SOLUTIONS CORP.       FC       FACE OF CURB       SQ.       SQUARE         MODEL: CRITTERS (0010-8856)       FG       FINISH GRADE       SS       STAINLESS STEEL         SIZE: 2' 10" HEIGHT       FG       FINISH GRADE       SS       STAINLESS STEEL         COLOR: ACRYLIC OUTER BODY - YELLOW       FH       FIRE HYDRANT       SS       SANITARY SEWER (CIVIL)         LOWER COLUMN & FEATURE BODY - ORANGE RAL 2011       FH       FL       FLOW LINE       SSCO       SANITARY SEWER CLEANOU	
MODEL:       CRITTERS (0010-8856)       FG       FINISH GRADE       SS       STAINLESS STEEL         SIZE:       2' 10" HEIGHT       FG       FINISH GRADE       SS       STAINLESS STEEL         COLOR:       ACRYLIC OUTER BODY - YELLOW       FH       FIRE HYDRANT       SS       SANITARY SEWER (CIVIL)         UPPER COLUMN & FEATURE BODY - ORANGE RAL 2011       FH       FIRE HYDRANT       SS       SANITARY SEWER (CIVIL)         LOWER COLUMN - ORANGE RAL 2011       FL       FLOW LINE       SSCO       SANITARY SEWER CLEANOU	
COLOR: ACRYLIC OUTER BODY - YELLOW UPPER COLUMN & FEATURE BODY - ORANGE RAL 2011 LOWER COLUMN - ORANGE RAL 2011 PHONE: 1-800-590-5552 FL FLOW LINE SSCO SANITARY SEWER CLEANOU	
LOWER COLUMN – ORANGE RAL 2011 PHONE: 1–800–590–5552 FL FLOW LINE SSCO SANITARY SEWER CLEANOU	
	Т
INSTALL PER MFG SPECS, ADJUST SPRAY PATTERN AND DEVICE ROTATION TO ENSURE NO OVERSPRAY ONTO ACCESSIBLE WALK (G), GRD GROUND SSMH SANITARY SEWER MANHOLE	
G GAS S/W SIDEWALK	
MFR: WATERPLAY SOLUTIONS CORP. GB GRADE BREAK TEL, T TELEPHONE	
MODEL: POP IT (UU10-7502) SIZE: HEIGHT GV GAS VALVE TBD TO BE DETERMINED	
PHONE: 1-800-590-5552 INSTALL PER MFG SPECS HC HANDICAP FACILITY TS TOP OF STAIR	
HDPE HIGH DENSITY POLYETHYLENE TW TOP OF WALL	
TRILLY LILLY WINDY MFR: WATERPLAY SOLUTIONS CORP. HH HANDHOLE TYP. TYPICAL	
MODEL: TRILLY LILLY WINDY (0010–1670) SIZE: HEIGHT	
COLOR: UPPER AQUALUME LEAVES – ORANGE LOWER AQUALUME LEAVES – RED HT HEIGHT W WATER LINE (CIVIL)	
COLUMN – BROWN RAL 8028 PHONE: 1–800–590–5552 INV INVERT WP WATERPROOF	
INSTALL PER MFG SPECS	
AISY MAY WINDY MER: WATERPLAY SOLUTIONS CORP.	
MODEL: DAISY MAY WINDY (0010-1655) SIZE: HEICHT JB JUNCTION BOX	
COLOR: UPPER LEAVES - YELLOW	
COLUMN - FERN RAL 6018	
INSTALL PER MFG SPECS MFR MANUFACTURER	
MODEL: TULIP (0010–7849) MED MEDIUM	
SIZE: HEIGHI PHONE: 1-800-550-5552 NICE MEDIUM SANDRIAST	
INSTALL PER MFG SPECS	
TILTY POP IT	
MODEL: TILTY POP IT (0010-7503)	
SIZE: HEIGHT PHONE: 1-800-590-5552	

![](_page_16_Picture_19.jpeg)

CONCRETE SPHERE BOLLARD 10DEL: TF6101 BEACH 3ZE: 35 ⅔" HEIGHT 'HONE: 1−800−590−5552 INSTALL PER MFG SPECS

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CONTRACT NO. CO2336	

# PLANTING NOTES

GENERAL

- 1. ALL WORK SHALL BE PERFORMED BY QUALIFIED PERSONNEL UNDER THE SUPERVISION OF A QUALIFIED PLANTING FOREMAN, MEETING THE QUALIFICATIONS OUTLINED SPECIFICATION SECTION 32 90 00.
- 2. ALL QUANTITIES AND PLANT COUNTS ARE FOR THE CONVENIENCE OF THE CONTRACTOR. IN CASE OF (3) DISCREPANCIES, THE PLAN SHALL GOVERN.
- THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO MAKE SUBSTITUTIONS, ADDITIONS, AND - 3. DELETIONS IN THE PLANTING SCHEME AS THEY FEEL NECESSARY WHILE WORK IS IN PROGRESS, UPON APPROVAL BY THE OWNER. SUCH CHANGES ARE TO BE ACCOMPANIED BY EQUITABLE ADJUSTMENTS IN THE CONTRACT PRICE, WHEN NECESSARY.
- 4. PLANT MATERIAL LOCATIONS SHOWN ARE DIAGRAMMATIC AND MAY BE SUBJECT TO CHANGE IN THE FIELD BY THE LANDSCAPE ARCHITECT. PLANT LOCATIONS ARE TO BE ADJUSTED IN THE FIELD AS NECESSARY TO SCREEN UTILITIES, BUT SHALL NOT BLOCK WINDOWS, BLOCK SIGNS NOR IMPEDE ACCESS.
- THE DESIGN INTENT OF THE PLANTING PLAN IS TO ESTABLISH AN ATTRACTIVE MATURE LANDSCAPE 5. APPEARANCE. FUTURE PLANT GROWTH WILL NECESSITATE TRIMMING, SHAPING, AND IN SOME CASE REMOVAL OF TREES AND SHRUBS AS AN ON-GOING MAINTENANCE PROCEDURE.
- 6. ALL PLANTING AREA MUST BE IRRIGATED WITH AUTOMATIC IRRIGATION SYSTEM. IRRIGATION SYSTEM SHALL BE FULLY AUTOMATED AND OPERATIONAL WITH FULL COVERAGE PRIOR TO PLANTING.
- 7. CONTRACTOR TO REVIEW ALL EXISTING, PROPOSED, & AS BUILT UTILITY PLANS PRIOR TO CONSTRUCTION. CONTRACTOR TO TAKE PRECAUTIONS IN EXCAVATION OF ALL TREE PLANTING PITS. CONTRACTOR TO NOTIFY LANDSCAPE ARCHITECT OF ANY CONFLICTS FOUND DURING CONSTRUCTION.
- CONTRACTOR MUST REVIEW ALL PLANS PRIOR TO THE BEGINNING OF CONSTRUCTION AND MAINTAIN THE FOLLOWING CLEARANCES FOR ALL TREE PLANTINGS. CONTRACTOR TO TAKE PRECAUTION IN ALL EXCAVATION ACTIVITY. NOTIFY LANDSCAPE ARCHITECT OF ANY CONFLICTS PRIOR TO INSTALLATION. FIRE HYDRANTS AND PIVS: 3' MINIMUM
  - LIGHT POLES: 10' MINIMUM UTILITIES AND UTILITY BOXES: 3' MINIMUM BUILDING ROOF EDGE: 5' MINIMUM
- 9. CONTRACTOR TO PROVIDE AND ARRANGE FOR PLANT MATERIAL THRU CONTRACT GROW, PLANT BROKERS, OR DIRECT PURCHASE AS REQUIRED FOR THE FULL IMPLEMENTATION OF THE PROJECTS PLANTING PLAN. CONTRACTOR MUST SUBMIT WITHIN 30 DAYS AFTER AWARD OF A BID A DETAILED NURSERY LIST OF SECURED PLANT MATERIAL, CONTRACT GROW PLANT MATERIAL, AND ANY SUBSTITUTION REQUESTS. CONTRACTOR SHALL ARRANGE AND SECURE ALL PLANT MATERIAL WITHIN 30 DAYS OF BID. UPON DELIVERY, PLANT MATERIAL THAT DOES NOT MEET NURSERY STANDARDS, IS ROOTBOUND, OF POOR QUALITY & HEALTH, SUBSTANDARD SIZE, AND / OR IS NOT APPROVED BY THE LANDSCAPE ARCHITECT SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. MATERIAL WHICH IS NOT SECURED AND IS UNAVAILABLE IN THE SIZE SPECIFIED SHALL BE UP-SIZED, IF AVAILABLE. ALL REPLACEMENT MATERIAL, SUBSTITUTIONS OR UP-SIZED PLANT MATERIAL MUST BE PROVIDED AS REQUIRED FOR THE FULL IMPLEMENTATION OF THE PLANTING PLAN AT NO ADDITIONAL COST TO THE CONTRACT AND OWNER.
- 10. PROCUREMENT OF PLANT MATERIAL SHALL NOT BE LIMITED TO NORTHERN CALIFORNIA. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRUCKING, INSPECTIONS, AND INCIDENTALS FOR PROVIDING PLANT MATERIAL FROM SOURCES OUT OF STATE AS REQUIRED BY THE PROJECT PLANTING PLAN.

EXISTING PLANT MATERIAL

- 1. ALL EXISTING PLANT MATERIAL, TREES, OR LAWN TO REMAIN MUST BE PROTECTED AND MAINTAINED IN PLACE BY THE CONTRACTOR.
- ANY DAMAGED MATERIAL MUST BE FULLY REPLACED TO MATCH EXISTING BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT AND OWNER.
- CONTRACTOR MUST MAINTAIN ANY EXISTING IRRIGATION SYSTEMS OR PROVIDE TEMPORARY IRRIGATION SYSTEMS AS REQUIRED TO ALL EXISTING PLANTING AREAS TO REMAIN.

SOILS

- THE CONTRACTOR MAY PROTECT AND STOCKPILE EXISTING SITE SOILS WHICH MAY BE REUSED FOR PLANTING PURPOSES. EXISTING SOILS SHALL BE TESTED PRIOR TO STOCKPILE FOR SOILS SUITABILITY PER THE REQUIREMENTS BELOW.
- 3. ALL ORGANIC COMPOST SHALL HAVE AN AGRICULTURAL SUITABILITIES TEST FOR COMPATIBILITY TO EXISTING SITE SOILS. TEST RESULTS SHALL BE DATED WITHIN THE LAST 3 MONTHS OF THE SUBMITTAL.
- 4. ALL EXISTING SITE SOILS SHALL HAVE AN AGRICULTURAL SUITABILITIES TEST BY AN APPROVED SOILS TESTING LAB (WAYPOINT ANALYTICAL OR APPROVED FOUAL) AND ANALYSIS FOR RECOMMENDATIONS ON ORGANIC COMPOST, AMENDMENTS, GRO POWER FERTILIZER AND ANY INCIDENTALS. RECOMMENDATIONS CONTAINED IN THE SOILS ANALYSIS RESULTS ARE TO BE IMPLEMENTED BEFORE PLANTING OCCURS. CONTRACTOR SHALL PROVIDE UP TO 4 COMBINED TESTS AT LOCATIONS SELECTED BY THE LANDSCAPE ARCHITECT. SOIL SAMPLES TO BE TAKEN AND COMBINED FROM A DEPTH OF 6" AND 24". PROVIDE ADDITIONAL TESTING (ONE 6" AND ONE 24" DEPTH TEST PER 25,000 SF FOR AREAS WHICH WERE LIME TREATED). THE ORGANIC COMPOST TEST RESULTS LISTED ABOVE SHALL BE SUBMITTED TO THE SOILS LAB FOR ACCURATE RECOMMENDATIONS OF THE SOIL AMENDMENT REQUIREMENTS. TEST RESULTS SHALL BE TAKEN AFTER ALL GRADING OPERATIONS ARE COMPLETE.
- ALL LIME TREATED SOILS IN AREAS TO RECEIVE PLANTING SHALL BE FULLY REMOVED AND 5. REPLACED WITH CLEAN APPROVED IMPORT TOP SOIL AT NO COST TO THE OWNER. AN ADDITIONAL 8 SOILS TESTS MAY BE REQUESTED BY THE LANDSCAPE ARCHITECT. ALL TESTING SHALL BE PAID FOR BY THE CONTRACTOR.
- ALL SOILS IMPORTED ONTO THE SITE FOR ANY PURPOSE SUCH AS GRADING, NON EXPANSIVE FILL, FILL, OR FOR ANY GENERAL PURPOSE MUST BE TESTED FOR PLANT SUITABILITY PRIOR TO PLACEMENT. ALL IMPORT SOILS SHALL BE NON-DETRIMENTAL TO PLANT MATERIAL AND SOILS ANALYSIS SUBMITTED TO THE LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL. PROVIDE 1 TEST PER 500 CY OF MATERIAL.
- 7. ALL IMPORT SOILS SHALL BE FREE OF DELETERIOUS MATERIALS, AGGREGATES, AND ROCK. IMPORT SOIL SHALL BE LOAM/ CLAY LOAM WITH A PH BETWEEN 6 AND 7.5. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS
- FOR BID PURPOSES AMEND ALL PLANTING SOIL WITH 6 YARDS OMRI COMPOST, 50LBS 8 GYPSUM, 20LBS SOIL SULFUR AND 160LBS OF GRO-POWER PLUS 5-3-1 W/ M PER 1000SF. CONTRACTOR TO SUBMIT ALL DELIVERY TICKETS FOR COMPOST AND FERTILIZERS FOR VERIFICATION. SOIL IS TO BE AMENDED, AT THE RATE INDICATED BY THE SOIL ANALYSIS, TO BRING THE SOIL ORGANIC MATTER CONTENT TO A MINIMUM OF 3.5% BY DRY WEIGHT, AND A MINIMUM OF 2" OF QUALITY RECYCLED COMPOST, ON ALL PLANTING AREAS.

- ALL PLANTERS IN AREAS WHICH HAVE BEEN COMPACTED, SUCH AS CONSTRUCTION 10. STAGING AREAS AND IN PARKING LOTS, SHALL BE CROSS RIPPED TO THE FOLLOWING DEPTHS: PLANTERS LESS THAN THREE
- FEET WIDE SHALL HAVE COMPACTION RELIEVED TO A MINIMUM DEPTH OF TWENTY-FOUR (24) INCHES BELOW SUBGRADE. PLANTERS THREE TO TEN (3-10) FEET WIDE MUST HAVE COMPACTION RELIEVED TO A MINIMUM DEPTH OF 18" BELOW SUBGRADE, PLANTERS MORE THAN 10' MIDE SHALL HAVE COMPACTION RELIEVED TO A MINIMUM DEPTH OF 12" BELOW SUBGRADE. AREAS SHALL BE PROTECTED AFTER DECOMPACTION.
- CONTRACTOR SHALL PERFORM A PERCOLATION TEST AT THE BEGINNING OF 11. CONSTRUCTION AT 1 LOCATION PER ACRE (MAX OF 4) TO DETERMINE THE DRAINAGE CAPACITY OF THE EXISTING SITE SOIL FOR TREE HEALTH. NOTIFY THE LANDSCAPE ARCHITECT IF DRAINAGE IS LESS THAN 2" PER HOUR.

TREES

- 1. ALL TREES SHALL BE STANDARDS UNLESS SPECIFICALLY NOTED.
- 2. ALL TREES ARE TO BE STAKED AS SHOWN ON THE TREE STAKING/GUYING DIAGRAMS. BRANCHING HEIGHT OF TREES SHALL BE A 6'-0" MINIMUM ABOVE FINISH GRADE. ALL TREES IN A FORMAL GROUP PLANTING MUST BE MATCHING IN SIZE AND SHAPE. ALL STREET TREES TO BE INSTALLED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE OWNER. LANDSCAPE ARCHITECT SHALL BE CONSULTED REGARDING ORIENTATION OF TREES PRIOR TO PLANTING AND/OR BACKFILLING.
- 3. PLANT TREES 3'-O" MINIMUM FROM FACE OF CURB AT PARKING, AND FROM EDGES OF PAVING. ALL TREES WITHIN 5' OF PAVING AREAS AND BUILDINGS MUST HAVE ROOT BARRIERS INSTALLED. SEE ROOT BARRIER DETAIL. DEEP ROOT BARRIER MODEL NO. UB.24.2. (415) 344–1464. INSTALL PER MANUFACTURER'S SPECIFICATIONS. WHERE WATER BARRIERS AND ROOT BARRIERS ARE REQUIRED, USE CENTURY PRODUCTS DUAL PURPOSE WATER/ ROOT BARRIER CR-PE24-20, (714)632-7083, S.C.D. FOR LOCATIONS OF WATER BARRIER.
- PROVIDE 4" BERM AROUND TREE FOR WATER BASIN. SEE TREE STAKING DETAIL. 4. BERM TO BE REMOVED IN LAWN AREA AFTER INITIAL MAINTENANCE PERIOD. MULCH TREE WELL WITH 3" LAYER OF RECYCLED CHIPPED MULCH. KEEP MULCH AWAY FROM TREE TRUNK. HOLD LAWN AND HYDROSEED 2' CLEAR FROM TRUNKS, TYP.
- TREES MUST HAVE AN UNCUT LEADER THAT HAS A UNIFORM TAPER FROM BASE TO TIP. TREES MUST MEET AT LEAST NORMAL CALIPER AND HEIGHT FOR CONTAINER SIZE. OVERGROWN OR ROOT BOUND TREES ARE NOT ACCEPTABLE.
- FOR ALL TREES IN STORMWATER INFILTRATION ZONES HOLD FG OF ROOTBALL 4" ABOVE FG OF FLOWLINE. ADJUST ADJACENT GRADE OF SOIL TO BLEND UNIFORMLY AROUND ROOTBALL AND ALLOW UNIMPEDED FLOW OF WATER.

![](_page_17_Picture_35.jpeg)

XXX	<u>TREE NAME</u>	<u>SEE PL</u>
XX	QUANTITY	FOR AI
XX	SHRUB NAME	SEE PL
XX	QUANTITY	FOR AL

# PLANT SCHEDULE

<u>TREES</u>	<u>CODE</u>	BOTANICAL NAME	COMMON NAME	<u>SIZE</u>	WATER USE	<u>SPACING</u>	SHRUBS	<u>CODE</u>	BOTANICAL NAME
•	РСК	PISTACIA CHINENSIS 'KEITH DAVEY'	KEITH DAVEY CHINESE PISTACHE	24" BOX	L (WUCOLS IV)	AS SHOWN	(+)	PJ	PHORMIUM X 'SEA JADE'
3	SRR	SYAGRUS ROMANZOFFIANA	QUEEN PALM	14° BTH	L (WUCOLS IV)	AS SHOWN		PW	PITTOSPORUM TOBIRA 'WHEELER'S DWA
+	ULF	ULMUS X 'FRONTIER'	FRONTIER ELM	24" BOX	L (WUCOLS IV)	AS SHOWN		SN	STRELITZIA NICOLAI
<u>SHRUBS</u>	<u>CODE</u>	BOTANICAL NAME	COMMON NAME	<u>SIZE</u>	WATER USE	SPACING	GROUNDCOV	ER	
	AB	ANIGOZANTHOS X 'BIG RED'	BIG RED KANGAROO PAW	5 GAL	L (WUCOLS IV)			LW	10% FURF PERENNIAL RYE & 10% BARON KENTUCKY BLUEGRASS
	AO	ARBUTUS UNEDO 'OKTOBERFEST'	OKTOBERFEST STRAWBERRY TREE	5 GAL	L (WUCOLS IV)				
$\overline{\cdot}$	СТ	CHONDROPETALUM TECTORUM	CAPE RUSH	5 GAL	L (WUCOLS IV)				
	EC	EUPHORBIA CHARACIAS WULFENII	EVERGREEN SPURGE	5 GAL	L (WUCOLS IV)				
$\bullet$	HP	HESPERALOE PARVIFLORA	RED YUCCA	5 GAL	L (WUCOLS IV)				
$\bigcirc$	KA	KNIPHOFIA X 'ALCAZAR'	ALCAZAR RED HOT POKER	5 GAL	L (WUCOLS IV)				
	LL	LOMANDRA LONGIFOLIA 'BREEZE' TM	BREEZE MAT RUSH	5 GAL	L (WUCOLS IV)				
•	LM	LOMANDRA X 'LIME TUFF'	LIME TUFF DWARF MAT RUSH	5 GAL	L (WUCOLS IV)				
<b>&gt;</b>	ΡY	PHORMIUM TENAX 'YELLOW WAVE'	NEW ZEALAND FLAX	5 GAL	L (WUCOLS IV)				
	PS	PHORMIUM X 'SUNDOWNER'	SUNDOWNER NEW ZEALAND FLAX	5 GAL	L (WUCOLS IV)				

# PLANTING NOTES (CONT)

DT'I INFO

1. GROUNDCOVER MUST BE PLANTED AS SHOWN ON THE PLAN, INCLUDING UNDER SHRUBS AND IN TREE WATERING BASINS.

SHRUBS AND PERENNIALS MUST HAVE ADEQUATE SETBACK FROM THE ADJACENT SIDEWALK AND EDGES OF PARKING LOT CURBS. NOTIFY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION IF PLANT MATERIAL MAY PROTRUDE INTO THE PATH OF TRAVEL.

### ACCESSORIES

SHRUBS AND GROUNDCOVERS

- 1. ALL PLANTING NOT BOUNDED BY CONCRETE OR A HARDSCAPE EDGE SHALL BE COMPLETELY SURROUNDED BY HEADERS. ALL ASPHALT AND DECOMPOSED GRANITE AREAS TO BE COMPLETELY SURROUNDED BY HEADERS OR ADJACENT CONCRETE WORK.
- 2. ALL PLANTING AREAS MUST BE TOP-DRESSED WITH 3" LAYER OF RECYCLED CHIPPED MULCH. COLOR: BROWN. SUBMIT SAMPLE TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO ORDERING.
- 3. ALL MULCH WITHIN STORMWATER PLANTING AREAS MUST BE 3" OF WASHED PEA GRAVEL. SUBMIT SAMPLE FOR REVIEW AND APPROVAL.
- 4. ALL STORMWATER CURB CUTS MUST BE REINFORCED WITH A MINIMUM 12" WIDE x18" LONG x 6" DEEP BAND OF COBBLE. COBBLE SHALL BE 40% 4"-6" AND 60% 2"-3" NOIYO COBBLE, PROVIDE 24" WIDE BY 6" DEPTH OF COBBLE AROUND ALL CATCH BASINS LOCATED IN DRAINAGE AREAS. SUBMIT SAMPLE FOR REVIEW AND APPROVAL
- 5. ALL RAINWATER LEADERS DISCHARGING INTO LANDSCAPE AREAS MUST HAVE SPLASH BLOCKS. MODEL: CDI 16X24". COLOR: TO MATCH PAVING. (800) 279-2278.
- 6. ALL SLOPES GREATER THAN 2.5:1 MUST BE COVERED WITH EROSION CONTROL NETTING PER THE MANUFACTURER'S SPECIFICATIONS. OVERLAP ALL EDGES A MINIMUM OF 12" AND SECURE AS REQUIRED WITH METAL STAPLES. EROSION CONTROL NETTING TO BE WESTERN EXCELSIOR, EXCEL CS-3 OR APPROVED EQUAL. AVAILABLE FROM REED & GRAHAM 888-381-0800.

7. SEE SPECIFICATIONS FOR ALL FERTILIZER REQUIREMENTS

### SUBMITTALS

- 1. CONTRACTOR MUST SUBMIT ALL TESTS, PRODUCTS, ACCESSORIES, INCIDENTALS, CUT SHEETS OF ALL ITEMS SPECIFIED FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
- 2. ALL PLANT MATERIAL MUST BE REVIEWED AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO DELIVERY. CONTRACTOR SHALL SUBMIT PHOTOS OF ALL SHRUBS, GROUND COVERS, VINES, AND TREES FOR PRELIMINARY REVIEW AND APPROVAL
- 3. ALL SUBMITTALS AND PLANT MATERIAL NOT REVIEWED AND APPROVED IN WRITING BY THE LANDSCAPE ARCHITECT MAY BE SUBJECT TO FULL REMOVAL AND REPLACEMENT WITH APPROVED SOILS, FERTILIZERS, AND PLANT MATERIAL AT NO ADDITIONAL COST TO THE CONTRACT OR OWNER.
- 4. SUBMITTALS AND SITE MOCKUPS OF ALL WORK SHALL BE REQUIRED PRIOR TO FINAL PLACEMENT INCLUDING BUT NOT LIMITED TO ALL WALLS, PAVEMENTS, COLORS, FINISHES, METAL WORK, FENCING, AND PAINTING FOR REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT. SEE SPECIFICATIONS.

MUNICIPAL REQUIREMENTS

- 1. ALL PLANT MATERIAL TO BE INSPECTED & APPROVED BY CITY REPRESENTATIVE AND LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- CONTACT THE PROJECT LANDSCAPE ARCHITECT FOR FINAL INSPECTION OF LANDSCAPE AND IRRIGATION. PRIOR TO RELEASE OF BUILDING FOR OCCUPANCY. THE PROJECT LANDSCAPE ARCHITECT WILL SUBMIT A LETTER TO THE CITY CERTIFYING THE PLANTING AND IRRIGATION HAS BEEN INSTALLED IN CONFORMANCE WITH THE APPROVED PLANTING AND IRRIGATION PLANS. SUBJECT TO THE REVIEW AND APPROVAL OF THE CITY LANDSCAPE ARCHITECT. SECURITIES IN LIEU OF INSTALLATION WILL NOT BE ACCEPTED.

# TREE PROTECTION NOTES:

- JO.

- FENCING.

- BE REVIEWED BY AN ARBORIST.

1. PRIOR TO INITIATING ANY CONSTRUCTION ACTIVITY IN THE AREA, INCLUDING GRADING, TEMPORARY PROTECTIVE FENCING SHALL BE INSTALLED AT EACH SITE TREE. FENCING SHALL BE LOCATED AT OR BEYOND THE CANOPY DRIP LINE SO THAT 100% OF THE DRIP LINE WILL BE PROTECTED BY FENCING. TO REDUCE SOIL COMPACTION FROM EQUIPMENT.

2. THE CONTRACTOR IS REQUIRED TO WATER, FERTILIZE AND ATTEND TO OTHER MAINTENANCE NEEDS OF EXISTING TREES AS NEEDED PER ARBORIST'S RECOMMENDATIONS TO MAINTAIN HEALTHY GROWTH THROUGHOUT THE CONSTRUCTION PERIOD. SIX FEET DIAMETER, MINIMUM, BY SIX INCH TALL EARTH BERMS SHALL BE CONSTRUCTED AT THE BASE OF EACH TREE TO FUNCTION AS TEMPORARY WATERING BASINS DURING THE CONSTRUCTION PERIOD. TREES SHALL BE WATERED ACCORDING TO WEATHER AND TREE REQUIREMENTS. APPROVED MULCH OF 1-2 INCH SIZED WOOD CHIPS SHALL BE PLACED AT A DEPTH OF 4 INCHES WHERE NO EXCAVATION IS TO OCCUR IN THE VICINITY OF THE TREES TO BE PROTECTED.

3. THE TREE PROTECTION FENCE SHALL BE 6' HIGH SNOW FENCE WITH IMMOVABLE POSTS. THE FENCING SHALL FORM A CONTINUOUS BARRIER WITHOUT ENTRY POINTS AROUND EACH TREE. ANY ENCROACHMENT INTO THE DRIP LINE FOR FENCING OR CONSTRUCTION PURPOSES SHALL NOT BE PERMITTED.

4. LOW HANGING LIMBS OF SAVED TREES SHALL BE PRUNED PRIOR TO GRADING, OR ANY EQUIPMENT MOBILIZATION ON SITE. THE PURPOSE OF THIS REQUIREMENT IS TO AVOID TEARING LIMBS BY HEAVY EQUIPMENT. ALL LIMBS TO BE PRUNED SHALL BE SUPERVISED BY THE ARBORIST OF RECORD FOR THE

5. THIS FENCING SHALL SERVE AS A BARRIER TO PREVENT DRIP LINE ENCROACHMENT OF ANY TYPE OF CONSTRUCTION ACTIVITIES AND EQUIPMENT. NO OILS, GAS, CHEMICALS, LIQUID WASTE, SOLID WASTE CONSTRUCTION MACHINERY OR CONSTRUCTION MATERIALS SHALL BE STORED OR ALLOWED TO STAND FOR ANY PERIOD OF TIME WITHIN THE DRIP LINE OF THE TREE, FURTHER, NO ONE SHALL ENTER THE FENCE PERIMETER FOR ANY REASON EXCEPT FOR THE PURPOSE OF MONITORING THE HEALTH OF THE TREE. ACCIDENTAL DAMAGE TO BARK, ROOT CROWN, OR LIMBS MAY INCREASE POTENTIAL FOR FUTURE DECLINE.

6. CONTRACTORS AND SUBCONTRACTORS SHALL DIRECT ALL EQUIPMENT AND PERSONNEL TO REMAIN OUTSIDE THE FENCED AREA AND AT ALL TIMES UNTIL PROJECT IS COMPLETE, AND SHALL INSTRUCT EMPLOYEES AS TO THE PURPOSE AND IMPORTANCE OF FENCING.

7. A 'TREE PROTECTION ZONE' SIGN SHALL BE POSTED AT EACH TREE INDICATING THE PURPOSE OF THE

8. THE ARBORIST OF RECORD FOR THE JOB OR THE CITY ARBORIST SHALL BE RESPONSIBLE FOR INSPECTION AND APPROVAL OF THE FENCING PRIOR TO ANY GRADING OPERATIONS.

9. FENCING MUST REMAIN IN PLACE AND SHALL NOT BE REMOVED UNTIL ALL CONSTRUCTION ACTIVITIES ARE COMPLETED. THIS SHALL INCLUDE GRADING AND COMPACTION ACTIVITIES, INSTALLATION OF UNDERGROUND, ALL CONSTRUCTION ACTIVITIES AND ANY OTHER CONSTRUCTION OR ACTIVITY WHICH IS SCHEDULED PRIOR OR LANDSCAPE INSTALLATION.

10. ROOTS OF SINGLE STANDING TREES OFTEN EXTEND UP TO THREE TIMES THE DISTANCE OF THE ACTUAL DRIP LINE AND FUNCTION PRIMARILY IN THEY UPTAKE OF NUTRIENTS AND WATER. THE DRIP LINE IS ARBITRARILY ESTABLISHED AS THE MINIMUM ROOT AREA GENERALLY REQUIRED TO PRESERVE TREE HEALTH. AS MUCH AREA AROUND THE CIRCUMFERENCE OF THE TREE SHOULD HAVE MINIMUM INTRUSION TO FURTHER INSURE TREE SURVIVAL AND HEALTH.

11. UNAUTHORIZED TREE REMOVAL IS SUBJECT TO IN-KIND REPLACEMENT EQUAL TO THE VALUE OF THE MATURE RESOURCE LOST, AS DETERMINED BY THE CITY.

12. NO MECHANICAL TRENCHING SHALL OCCUR WITHIN THE TREE PROTECTION ZONE. ANY EXCAVATION IF REQUIRED SHALL BE BY HAND. AIR SPADE OR BY VACUUM. CUTTING OF ANY ROOTS OVER 3" DIA SHALL

13. SEE TREE PRESERVATION SPECIFICATIONS FOR ADDITIONAL INFORMATION.

14. THE CONTRACTOR SHALL CONTRACT WITH AN ARBORIST AS REQUIRED TO ENSURE PROPER TREE HEALTH IF A PROJECT ARBORIST OR CITY ARBORIST HAS NOT BEEN CONTRACTED.

	COMMON NAME	<u>SIZE</u>	WATER USE	<u>SPACING</u>
	SEA JADE NEW ZEALAND FLAX	5 GAL	L (WUCOLS IV)	
RF'	WHEELER'S DWARF PITTOSPORUM	5 GAL	L (WUCOLS IV)	
	GIANT BIRD OF PARADISE	5 GAL	M (WUCOLS IV)	

LAWN

H (WUCOLS IV)

A PEGISTER.	City of				PROHITECT +	
	シークローイク			LAND PLANNING - URBAN DESIGN	1655 N. MMN 5T. 5TE 365, WALNUT CREEK, CA 34596 T 9.25, 7336, 8176 W.W.W. d 22455, C 0 M	
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FINLEY AQUATIC CENTER						LISI & LEGEND
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		18	02	)F 2—	68 .01	4

	TREE DISPOS	ITION TA	BLE
TREE #	COMMON NAME	TRUNK CALIPER Ø"	DESIGNATION
1	Chinese Pistache	6"ø	Preserve
2	Chinese Pistache	7" ø	Preserve
3	Pear	6" Ø	Preserve
4	Pear	11" ø	Preserve
5	Pear	5" ø	Preserve
6	London Plane	10" Ø	Preserve
7	London Plane	10" ø	Preserve
8	London Plane	12" ø	Preserve
9	London Plane	10" ø	Preserve
10	London Plane	10" ø	Preserve
11	Oak	10" ø	Preserve
12	London Plane	10" Ø	Preserve
13	Oak	10" ø	Preserve
14	Oak	21" ø	Preserve
15	Pear	6"ø	Demo
16	Pear	11" ø	Demo
17	Maple	12" ø	Demo
18	Pear	14" ø	Demo
19	Pear	10" ø	Demo
20	Pear	10" ø	Demo
21	Pear	8" Ø	Demo
22	Pear	10" ø	Demo
23	Pear	7" ø	Demo
24	Pear	7" ø	Demo
25	Pear	8" ø	Demo
26	Pear	13" Ø	Demo
27	Pear	8" Ø	Demo
28	Pear	11" Ø	Demo
29	Pear	8" ø	Demo
30	Pear		Demo
31	Pear	10" ø	Demo
32	Pear	8" Ø	Demo
33	Pear	12" Ø	Demo
34	Pear (Multi)	.30" ø	Demo
35	Redwood	16" ø	Preserve
36	Redwood	.30" ø	Preserve
37	Redwood	30" ø	Preserve
38	Redwood	30" ø	Preserve
39	Redwood	30" ø	Preserve
40	Redwood	30" ø	Preserve
41	Redwood	10" ø	Preserve
42	Oak	22" ø	Preserve
43	Maple	8" ø	Preserve
44	Maple	6" ø	Preserve
45	Maple	10" ø	Preserve
46	Oak	20" n	Preserve
47	Maple	8" ø	Preserve
48	Maple	8" ø	Preserve
49	Maple	6" ø	Preserve
50	Maple	8" ø	Preserve
51	Maple	8" M	Preserve
		ע ע ו	

PROTECTED TREE:

A PROTECTED TREE IS ANY TREE, INCLUDING A HERITAGE TREE, INDICATED TO BE PRESERVED ON AN APPROVED DEVELOPMENT PLAN, AN APPROVED TENTATIVE MAP OR TENTATIVE PARCEL MAP, OR OTHER APPROVED DEVELOPMENT.

EXEMPT TREES:

THE FOLLOWING TREES ARE EXEMPT FROM PERMIT REQUIREMENTS IN ALL ZONING DISTRICTS, WHETHER THE PARCEL IS DEVELOPED OR NOT:

- ACACIAS
- AILANTHUSFRUIT AND NUT TREES (EXCEPT WALNUTS)
- FRUITLESS MULBERRY
- HAWTHORN
- LIGUSTRUMS
- MONTEREY CYPRESS
- MONTEREY PINE
- POPLARS
- PYRACANTHA
   SILVER MARK
- SILVER MAPLE

LANDS OF CITY OF SANTA ROSA APN 010-320-017

EXISTING TREE PROTECTIVE FENCING

![](_page_18_Figure_17.jpeg)

![](_page_19_Figure_0.jpeg)

![](_page_20_Picture_0.jpeg)

![](_page_20_Figure_1.jpeg)

![](_page_21_Figure_0.jpeg)

![](_page_22_Figure_0.jpeg)

	WATER USE ESTIMATION													
WATER TYPE	RECYCLED													
SITE ETO=	42													

		12										
WATER TYPE	RECYCLED											
SITE ETO=	42											
												2.
REGULAR LANDSCAPE	AREAS											
HYDROZONE #	HYDROZONE NAME	PLANT WATER USE TYPE	PLANT FACTOR (PF)	IRRIGATION METHOD	IRRIGATION EFFICIENCY	ETAF (PF/IE)	AREA (SQ. FT) (HA)	ETAF X AREA (HA)	ET WU (GAL/YR)	ACRE FEET/ YEAR	HCF/ YEAR	PERCENTAGE OF LANDSCAPE
1	Shrub	LOW	0.2	DRIP	0.81	0.25	1,050	259	6,751	0.02	9.03	24%
2	Palm Tree	LOW	0.2	DRIP	0.81	0.25	250	62	1,607	0.00	2.15	6%
3	Shrubs in raised planters	LOW	0.2	DRIP	0.81	0.25	260	64	1,672	0.01	2.23	6%
4	Shrub	LOW	0.2	DRIP	0.81	0.25	1,500	370	9,644	0.03	12.89	35%
5	Tree	LOW	0.2	DRIP	0.81	0.25	50	12	321	0.00	0.43	196
6	Tree	LOW	0.2	DRIP	0.81	0.25	50	12	321	0.00	0.43	196
7	Shrub	LOW	0.2	DRIP	0.81	0.25	1,185	293	7,619	0.02	10.19	27%
						TOTALS	4,345	1,073	27,937	0.09	37.35	100%

SPECIAL LAND SCAPE	AREAS										
HYDROZONE #	HYDROZONE NAME					15					
				1		0				0%	
				TOTAL S		0			4	0%	
-	GALLON S/Y	R	50,915								
MAWA	ACRE FEET/	YR	0.16		MAWA FORMULA	<b>A</b>		ETW	UFORMULA		
	HCF/YR		68.07	MAXIMUN	APPLIED WATER ALLO GALLONS PER YEA	WANCE (MAWA) R	ESTIMAT	TED TOTAL WA	TERUSE (ETW YEAR	U) GALLONS PER	
				MAWA =	(ETo)(0.62)[(LA x 0.45)	+ (0.55 x SLA)]		ETWU= ((ET	TO)(.62)(ETA	F x LA))	
	GALLON S/Y	R	27,937	ETo = REF	ERENCE EVAPOTRAN	SPIRATION	ETo = REF	FERENCE EV	NCE EVAPOTRANSPIRATION		
ETWU	ACRE FEET/	YR	0.09	0.45= ET A	DJUSTMENT FACTOR		PF = PLAN	T FACTOR F	OR HYDROZ	ONES	
	HCF/YR		37.35	LA=LANDS	CAPED AREA (SQUAR	E FEET)	HA = HYDA	ROZONE ARE	A (SQ.FT)		
				0.62 = CON	WERSION FACTOR (G	ALLONS/SQ.FT/YR)	0.62 = CO	PF = PLANT FACTOR FOR HYDROZONE HA = HYDROZONE AREA (SQ.FT) 0.62 = CONVERSION FACTOR (GALLON			
SITE IRRIGATION EFFICIENCY	SITE PLANT FACTOR	MAWA COMPLIANT					IE = IRRIG	ATION EFFICI	ENCY (0.81)-[	BUBBLER/DRIP	
57.0%	0.14	YES					IE = IRRIG	ATION EFFICI	ENCY (0.75)-	ROTORS/SPRAY	
ETAF (	alculations										
REGULAR LAND SCA	PE AREAS										
TOTAL ETAF X AREA	1,073										
TOTAL AREA	4,345										
AVG. ETAF	24.69%										

BUBBLER IRRIGATION @	LOW WAT	ER-USE	PLANT	AREAS										
SPRINKLER MANUFACTURER			RAIN B	IRD	LOCATION	:		SANTA R	DSA, CALIF	ORNIA				
PRECIPITATION RATE (INCHES	HOUR):		1.50		HEAD SPACING:			VARIES						
IRRIGATION SYSTEM EFFICIEN	CY		0.81		HEAD GPM:			0.2500						
PLANT FACTOR:			0.30											
YEAR 2 REDUCTION AMOUNT:			-10% (	OF YEAR	1 (ESTAB	LISHMENT)	RUN TIM	E MINUTES						
	MONTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ETO PER MON	TH (INCHES):	1.50	1.80	3.10	4.10	5.50	5.80	6.50	5.90	5.20	3.30	1.80	1.00	42.00
ETO PER WE	ek (inches):	0.346	0.416	0.716	0.947	1.270	1.339	1.501	1.363	1.201	0.762	0.416	0.231	
APPLIED ETO PER WE	ek (inches):	0.128	0.154	0.265	0.351	0.470	0.496	0.556	0.505	0.445	0.282	0.154	0.086	
MINUTES OF WATER	YEAR 1	5	6	11	14	19	20	22	20	18	11	6	3	
PER WEEK:	YEAR 2	5	6	10	13	17	18	20	18	16	10	6	3	
DAYS PER WEEK: YEAR 2		1	1	2	2	3	4	4	4	3	2	1	1	++
DAYS PER WEEK:	YEAR 2	1	1	2	2	3	4	4	4	3	2	1	1	
MINUTES OF WATER	YEAR 1	5	6	5	7	6	5	6	5	6	6	6	3	1
PER DAY:	YEAR 2	5	6	5	6	6	4	5	5	5	5	6	3	
	YEAR 1	1	1	1	1	1	1	1	1	1	1	1	1	
CYCLES PER DAY:	YEAR 2	1	1	1	1	1	1	1	1	1	1	1	1	
	YEAR 1	5	6	5	7	6	5	6	5	6	6	6	3	
MINUTES PER CYCLE:	YEAR 2	5	6	5	6	6	4	5	5	5	5	6	3	
BUBBLER IRRIGATION @	LOW WAT	ER-USE	TREES											
SPRINKLER MANUFACTURER			RAIN B	IRD	LOCATION	:		SANTA RO	DSA, CALIF	ORNIA				
PRECIPITATION RATE (INCHES	/HOUR):		3.00		HEAD SPA	ACING:		VARIES						
IRRIGATION SYSTEM EFFICIENC	CY		0.81  HEAD GPM: 2					2 X .25						
PLANT FACTOR:			0.30											
YEAR 2 REDUCTION AMOUNT.			1-10% (	NF YFAR	1 (FSTAR	I ISHMENT)	RUN TM	F MINIITES						

BUBBLER IRRIGATION @	LOW WATE	ER-USE	TREES											
SPRINKLER MANUFACTURER			RAIN B	IRD	LOCATION	:		SANTA RO	DSA, CALIF	ORNIA				
PRECIPITATION RATE (INCHES	/HOUR):		3.00		HEAD SPA	IEAD SPACING: VARIES								
IRRIGATION SYSTEM EFFICIENC	Y		0.81	.81 HEAD GPM: 2 X .25										
PLANT FACTOR:			0.30											
YEAR 2 REDUCTION AMOUNT:			-10% (	DF YEAR	1 (ESTAB	LISHMENT)	RUN TIM	E MINUTES						
	MONTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ETO PER MONI	н (inches):	1.50	1.80	3.10	4.10	5.50	5.80	6.50	5.90	5.20	3.30	1.80	1.00	42.00
ETO PER WEE	K (INCHES):	0.346	0.416	0.716	0.947	1.270	1.339	1.501	1.363	1.201	0.762	0.416	0.231	
APPLIED ETO PER WEE	EK (INCHES):	0.128	0.154	0.265	0.351	0.470	0.496	0.556	0.505	0.445	0.282	0.154	0.086	
MINUTES OF WATER	YEAR 1	3	3	5	7	9	10	11	10	9	6	3	2	
PRECIPITATION RATE (INCHE IRRIGATION SYSTEM EFFICIEN PLANT FACTOR: YEAR 2 REDUCTION AMOUNT ETO PER MON ETO PER MON ETO PER MON APPLIED ETO PER MI MINUTES OF WATER PER WEEK: DAYS PER WEEK: MINUTES OF WATER PER DAY: CYCLES PER DAY: MINUTES PER CYCLE:	YEAR 2	2	3	5	6	8	9	10	9	8	5	3	2	
	YEAR 1	1	1	1	1	1	2	2	2	1	1	1	1	
DATS PER WEEK:	YEAR 2	1	1	1	1	1	2	2	2	1	1	1	1	
MINUTES OF WATER	YEAR 1	3	3	5	7	9	5	6	5	9	6	3	2	
PER DAY:	YEAR 2	2	3	5	6	8	4	5	5	8	5	3	2	
	YEAR 1	1	1	1	1	1	1	1	1	1	1	1	1	
CYCLES PER DAY:	YEAR 2	1	1	1	1	1	1	1	1	1	1	1	1	
	YEAR 1	3	3	5	7	9	5	6	5	9	6	3	2	
MINUTES PER CYCLE:	YEAR 2	2	3	5	6	8	4	5	5	8	5	3	2	

MBOL MODEL	EGEND - RE	ECYCLED	WATER			S S REGIST	6/30/ 6/30/ 6/9/:	2022 bbu 2023
	NUMBER		DESCRIP	TION	PSI GPH		<sup>v</sup> OF	CALIFO
• DB-0	4-PC-CV		TORO PF	ESSURE COMPENSATING DRIP BUBBLER, ONE PER SHRUB	30 4			Sa
	9-PC-CV		TORO PI 4 BUBBI	RESSURE COMPENSATING DRIP BUBBLER, ON FLEX RISER. INSTALL 2 BUBBLERS PER TREE, ERS AT PALM TREES.	30 9		(	K0
DZK-7	00/LT-1000-T		TORO DF PRESET	IP VALVE KIT-INCLUDES REMOTE CONTROL VALVE, WYE FILTER WITH 150 MESH SCREEN AND PRESSURE REGULATOR/ NS SCHEDULE 80 PVC BALL VALVE			- ب	[ a
► T-113	—К		NIBCO G	ATE VALVE (LINE SIZE) IN ROUND BOX			V O	nt
<ul> <li>► LFB60</li> <li>◆ 33-DI</li> </ul>	00 IP/33-DK/SH-10		WATTS LI RAIN BIR	TAD FREE BALL VALVE (LINE SIZE) ISOLATION VALVE INTO VALVE MANIFOLD D QUICK COUPLER VALVE WITH 3/4" VALVE KEY AND HOSE SWIVEL FOR RECYCLED WATER. 2 PIECE	<u>:</u>		Cit.	Na
- CL-10	0		INSTALL ( IRRIGATIO	CLIMATE LOGIC CL-100 WIRELESS WEATHER SENSOR SYSTEM TO EXISTING CONTROLLER(S) UTILIZED F	OR NEW	6	6	
С то ве	FIELD VERIFIED		EXISTING	IRRIGATION CONTROLLERS TO REMAIN IN SERVICE			9	V
• то ве	FIELD VERIFIED		EXISTING	IRRIGATION CONTROL VALVES TO REMAIN IN SERVICE		U	<b>о</b> щ	TURE ESIGN Catality Esicon
Reuse See D	ETAILS		RECYCLE	D WATER NOTIFICATION SIGN INSTALLED PER DISTRICT STANDARDS				KCHITEC CHITEC URBAN D MUNTCHEK
			- STATION	NUMBER TO BE FIELD VERIFIED		<	۲ ŏ	CAPE AL CAPE AL ANNING IST. STEXE, V
ı" 15 —			- GALLONS	PER MINUTE			ס¥ ל	LANDS LAND FL LAND FL 1635 N.MMR
1			- VALVE SI	ZE				
, 			FXISTING	PVC MAINLINE AND WIRES TO REMAIN IN SERVICE AND TO BE PROTECTED IN PLACE DURING CONSTI	RUCTION			
				TVO MAINEIRE AND WIRES TO REMAIN IN SERVICE AND TO BE TROTECTED IN TEACE DORING CONST				
			_ MAINLINE "PW PUF	: 1120-SCHEDULE 40 PURPLE PVC WITH SCHEDULE 40 PVC SOLVENT WELD FITTINGS. PIPE FOR REG PLE PLUS" OR EQUAL WITH SCHEDULE 40 PVC SOLVENT WELD FITTINGS. 24" COVER IN PLANTING ,	CLAIMED WATER BY AREAS.			
			- LATERAL FITTINGS.	LINE: 1120-SCHEDULE 40 PVC PLASTIC PIPE BY "PW PURPLE PIPE" OR EQUAL WITH SCHEDULE 40 18" COVER IN PLANTED AREAS.	PVC PLASTIC			
			- SLEEVE:1 BELOW E	120-SCHEDULE 40 PVC PLASTIC PIPE WITH SCHEDULE 40 PVC SOLVENT WELD PLASTIC FITTINGS, 24 OTTOM OF STREET PAVEMENT SECTION, SLEEVE LOCATIONS TO BE COORDINATED WITH CIVIL PLANS,	F COVER			
							$\left  \right $	
TERAL LINE	SIZING CH	IART						)/2023
RINKLER TYPE	GPM	PIPE SIZE	NO. OF BUBBLERS*			DSS	Q	06/08
RUB BUBBLERS	1-9	3/4"	1-33			BY:	BY:	i
	15.15-24	1 1/4" 1 1/2"	67-133 134-166			NWD	CHK	DATE
E BUBBLERS	1.0	3/4"	1-10					<u> </u>
GPM	9.5-15	1"	11-20					UE U
	15.5-24		21-40			Щ Ш Ц Ц Ц Ц Ц Ц Ц Ц Ц		Ŭ   
	TES NO. OF B	UBBLERS, N	OT NO. OF					S S
BLER PER SHF	UB.	ERS FER IR	EE AND ONE				Ž U L	OTE
							ANU JEC	Z
						<b>OU</b>	PRO	UTIO
						A Y	ר פיר פיר	RIGA
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ND 5 ATION								
NI ENT						C	CO2	CT NO. 336
IRF							- 4	

SPRINKLER TYPE	GPM	PIPE SIZE	NO. OF BUBBLERS*
<u>SHRUB BUBBLER</u> S 0.67 GPM	1-9 9.15-15 15.15-24 24.15-30	3/4" 1" 1 1/4" 1 1/2"	1-33 34-66 67-133 134-166
TREE BUBBLERS 0.15 GPM	1-9 9.5-15 15.5-24	3/4" 1" 1 1/4"	1-10 11-20 21-40

NOTES:
THE CHARTS ARE INTENDED TO BE USED AS A GUIDELINE
ONLY AND INDICATE APPROXIMATE RUN TIMES (IN MINUTES)
FOR EACH ZONE BASED ON ESTIMATED WEEKLY WATER
REQUIREMENTS FOR ESTABLISHED PLANT MATERIAL. THE
FIGURES SHOWN IN THIS SCHEDULE ARE APPROXIMATE AND
HAVE BEEN DEVELOPED FROM LOCAL CURRENT AVERAGES
FOR EVAPOTRANSPIRATION, AND REFLECT MAXIMUM IRRIGATION
REQUIREMENTS OF THE PLANT MATERIAL BASED ON PLANT
TYPE AND SPACING. ACTUAL RUN TIMES MAY BE DIFFERENT
DEPENDING ON A VARIETY OF FACTORS INCLUDING
TOPOGRAPHY, SOIL STRUCTURE, SUN AND WIND EXPOSURE,
WEATHER, ACTUAL PLANT WATER REQUIREMENTS, ETC.

### IRRIGATION NOTES - RECYCLED WATER

1. NO WORK SHALL START UNTIL THE CONTRACTOR HAS COMPLETE FAMILIARIZATION WITH THE DISTRICT STANDARDS AND OF THE REQUIRED PERMITS.

2. NOTIFY THE DISTRICT'S AUTHORIZED REPRESENTATIVE NO LESS THAN 2 WORKING DAYS PRIOR TO THE START OF WOR INSPECTION SCHEDULE COORDINATION.

3. THE IRRIGATION SYSTEM DESIGN FOR THIS SITE IS BASED ON A STATIC PRESSURE AT THE RECYCLED WATER METER THE CONTRACTOR SHALL VERIFY THE AVAILABLE PRESSURE AT THE POINT OF CONNECTION PRIOR TO THE START OF CONS ANY DEVIATION FROM THE DESIGN PRESSURE SHOWN ABOVE SHALL BE REPORTED TO THE IRRIGATION SYSTEM DESIGNER PROPERTY OWNER IMMEDIATELY.

L3. ALL PIPING AND IRRIGATION SYSTEMS SHALL BE DESIGNED AND CONSTRUCTED SO THAT SPRAY OR RUNOFF SHALL A DWELLING, FOOD HANDLING FACILITY, OR EATING AREA AND SHALL NOT CONTACT ANY DRINKING WATER FOUNTAIN. IRRIGA RECYCLED WATER SHALL BE ACCOMPLISHED AT A TIME AND MANNER THAT MINIMIZES THE POSSIBILITY OF PUBLIC CONTACT CONTRACTOR SHALL CONDUCT PRESSURE AND COVERAGE TESTS WHEN WIND CONDITIONS ARE SUCH THAT WATER WILL NOT WINDBLOWN. RECYCLED WATER OVERSPRAY ON TO AREAS NOT CONTROLLED BY THE OWNER IS PROHIBITED.

5. THE CONTRACTOR SHALL PROPERLY SUPERVISE AND INFORM ALL INDIVIDUALS INVOLVED IN THE INSTALLATION OF THE WATER IRRIGATION SYSTEM THAT RECYCLED WATER IS UNFIT FOR CONSUMPTION OR FOR HYGIENIC USE, A FIRST AID KIT S AVAILABLE AT ALL TIMES DURING INSTALLATION AND OPERATION OF IRRIGATION SYSTEM.

6. ALL RECYCLED WATER PIPING SHALL USE PURPLE COLORED AND STENCILED PIPE. PURPLE RECYCLED WATER WARNIN CONTINUOUSLY APPLIED TO THE PIPE, OR MARKED PLASTIC ENCASEMENT. ALL MARKING SHALL INCLUDE THE FOLLOWING OF WORDS: "CAUTION: RECYCLED WATER - DO NOT DRINK".

7. WARNING TAPE OR PIPE ENCASEMENT INSTALLED SHALL BE AS MANUFACTURED BY T. CHRISTY ENTERPRISES, RENCOF EQUAL.

8. INSTALL VALVES, METERS AND APPURTENANCES IN PURPLE COLORED VALVE BOXES WITH PURPLE LIDS. THE VALVE SHALL HAVE THE FOLLOWING WARNINGS MOLDED OR HOT–STAMPED UPON IT: "RECYCLED WATER", OR USE WARNING LABEL CHRISTY ENTERPRISES 3800 OR EQUAL.

9. ALL SPRINKLERS USED IN CUSTOMER RECYCLED WATER FACILITIES SHALL HAVE AN EXPOSED SURFACE COLORED PUR ASSOCIATE THEM WITH RECYCLED WATER USE. THE EXPOSED SURFACE MAY BE COLORED PURPLE THROUGH THE USE OF: PLASTIC OR RUBBER, OR (2) WEATHERPROOF PAINT.

10. INSTALL WARNING TAGS AS MANUFACTURED BY T. CHRISTY ENTERPRISES 3150 OR EQUIVALENT TO ALL SUCH CONTROL GATE VALVES, QUICK COUPLER VALVES, CONTROLLERS, METERS, ETC. TAGS SHALL BE WEATHERPROOF PLASTIC, 3-INCH BY PURPLE IN COLOR WITH THE WORDS "WARNING: RECYCLED WATER - DO NOT DRINK" IMPRINTED ON ONE SIDE AND "AVISC IMPURA - NO TOMAR" ON THE OTHER SIDE, OR SIMILAR AS APPROVED BY THE DISTRICT ENGINEER. IMPRINTING SHALL BE PERMANENT AND BLACK IN COLOR.

11. PRIOR TO INSTALLATION, LOCATE DOMESTIC WATER MAINS AND/OR LATERALS (AS APPROPRIATE). RECYCLED WATER IRI PIPELINES AND PRIVATE POTABLE WATER PIPELINES SHALL BE INSTALLED IN SEPARATE TRENCHES WITH THE GREATEST POS HORIZONTAL SEPARATION FROM PRIVATE POTABLE WATER PIPELINES. WHERE POSSIBLE MINIMUM CLEARANCES OF 10' FOOT HORIZONTAL AND 1' FOOT VERTICAL SHALL BE MAINTAINED BETWEEN POTABLE AND RECYCLED WATER LINES. WHERE RECY WATER IRRIGATION PIPELINES AND PRIVATE POTABLE WATER PIPELINES CROSS, THE POTABLE WATER PIPE SHALL BE INSTAL MINIMUM OF TWELVE (12) INCHES ABOVE THE RECYCLED WATER PIPING.

12. RECYCLED WATER PIPING SHALL BE INSTALLED AT THE FOLLOWING MINIMUM DEPTHS FROM FINISHED GRADE TO TOP (MINIMUM COVER) SHALL BE AS FOLLOWS: A) CONSTANT PRESSURE LINES 3 INCHES OR LARGER: 24 INCHES B) CONSTAN PRESSURE LINES 2-L/2 INCHES AND SMALLER: 18 INCHES C) INTERMITTENT PRESSURE LINES: 12 INCHES WHERE PIPING PAVED AREAS, THESE DIMENSIONS SHALL BE INCREASED TO INCLUDE THE ROADWAY SECTION AND ADEQUATELY PROTECT T FROM DAMAGE FROM TRAFFIC LOADS.

13. (USE THIS NOTE ONLY IF POTABLE WATER SERVICE IS AVAILABLE.) NO HOSE BIBS SHALL BE USED FOR RECYCLED W SYSTEMS. QUICK-COUPLING VALVES SHALL BE CONSTRUCTED OF BRASS WITH A PURPLE RUBBER OR VINYL COVER, AND A 1-INCH INLET WITH ACME THREAD BODY, NELSON MODEL 7645 OR EQUAL, AND KEY, NELSON MODEL 7640 OR EQUAL

14. RECORD DRAWINGS OF CUSTOMER FACILITY IRRIGATION SYSTEMS SHALL BE PROVIDED TO THE DISTRICT.

15. THE IRRIGATION CONTROLLER SHALL BE PROGRAMMED TO WATER BETWEEN THE HOURS OF 9:00 PM AND 7:00 AM O ADDITIONAL RESTRICTED WATERING TIMES MAY BE ESTABLISHED BASED ON SITE CONDITIONS AS APPROVED BY THE DISTRIC REPRESENTATIVE.

16. FLUSHING OF RECYCLED WATER THROUGH IRRIGATION SYSTEM PIPING SHALL BE PERFORMED IN A MANNER THAT MIN DISCHARGE FROM THE SITE OR CREATES PONDING. FLUSHING SHALL NOT BE PERMITTED IN A WAY THAT CREATES PUDDLE ALLOWS THE RECYCLED WATER TO BECOME STAGNANT, FLUSHING INTO THE SANITARY SEWER IS THE MOST ACCEPTABLE W/ DISCHARGE RECYCLED WATER. IF THIS IS NOT POSSIBLE, THEN FLUSHING MAY BE DONE BY DIVERTING RECYCLED WATER I STORAGE TANK, TANK TRUCK OR OTHER APPROVED HOLDING FACILITY. HOLDING FACILITIES MUST BE CLEARLY MARKED WI WARNING SIGNS. RECYCLED WATER SHALL BE TRANSPORTED AND DISCHARGED AT AN APPROVED SITE IN AN APPROVED MA

17. WHERE BOTH POTABLE AND RECYCLED WATER CUSTOMER FACILITIES ARE PRESENT AT A SITE, A CROSS-CONNECTION INSPECTION AND TEST SHALL BE PERFORMED ON BOTH THE POTABLE AND RECYCLED WATER SYSTEMS. THE CROSS-CONNECTION TEST WILL BE CONDUCTED BY DISTRICT STAFF IN ACCORDANCE WITH SECTION IV-B3 OF THE DISTRICT STANDARDS. THE CONTRACTOR SHALL REQUEST THE CROSS-CONNECTION TEST BY THE DISTRICT A MINIMUM OF 2 DAYS PRIOR TO THE PERFORMING THE TEST. RECYCLED WATER PIPING SHALL BE TESTED USING POTABLE WATER WITH AN APPROVED BACKFLOW PREVENTION DEVICE. THE BACKFLOW TESTING SHALL BE PERFORMED IN ACCORDANCE WITH DISTRICT SPECIFICATIONS, SECTION II-B3 AND SHALL BE CERTIFIED PRIOR TO ANY CROSS-CONNECTION TESTING.

18. THE CONTRACTOR SHALL PERFORM A COVERAGE TEST IN THE PRESENCE OF DISTRICT INSPECTION STAFF TO CONFIRM THAT EXCESSIVE OVERSPRAY DOES NOT OCCUR IN ACCORDANCE WITH SECTION IV-B3-L3. ANY MODIFICATIONS IN EITHER THE SYSTEM EQUIPMENT. OR ADJUSTMENT IDENTIFIED BY THE DISTRICT DURING THE COVERAGE TEST SHALL BE COMPLETED IN ACCORDANCE WITH THE SCHEDULE AND CONDITIONS DETERMINED BY THE DISTRICT AT THE TIME OF THE TEST.

19. IN ALL AREAS WHERE THE PUBLIC MAY BE EXPOSED TO RECYCLED WATER, WARNING SIGNS SHALL BE INSTALLED AT JOINTLY APPROVED CITY AND DISTRICT LOCATIONS. SIGNS SHALL BE IN ACCORDANCE WITH DISTRICT STANDARD DETAILS, AND INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE DISTRICT'S STANDARD DETAILS.

## SUPPLEMENTAL IRRIGATION NOTES

ISSUANCE RK FOR	1.	THESE IRRIGATION DRAWINGS ARE DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. ALL PIPING, VALVES, AND OTHER IRRIGATION COMPONENTS MAY BE SHOWN WITHIN PAVED AREAS FOR GRAPHIC CLARITY ONLY AND ARE TO BE INSTALLED WITHIN PLANTING AREAS WHERE FEASIBLE. WHEN INSTALLED WITHIN PAVING AREAS ALL VALVES, SPLICE BOXES, ETC SHALL BE INSTALLED WITHIN A PRECAST CONCRETE BOX. DUE TO THE SCALE OF THE DRAWINGS. IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS. FITTINGS.	19. 20.	T A D
OF 70 PSI. TRUCTION. DR		SLEEVES, CONDUIT, AND OTHER ITEMS WHICH MAY BE REQUIRED. INVESTIGATE THE STRUCTURAL AND FINISHED CONDITION AFFECTING THE CONTRACT WORK INCLUDING OBSTRUCTIONS, GRADE DIFFERENCES OR AREA DIMENSIONAL DIFFERENCES. IN THE EVENT OF FIELD DISCREPANCY WITH CONTRACT DOCUMENTS, PLAN THE INSTALLATION WORK ACCORDINGLY BY NOTIFICATION AND APPROVAL OF THE OWNER'S AUTHORIZED REPRESENTATIVE AND ACCORDING TO THE CONTRACT SPECIFICATIONS. NOTIFY AND COORDINATE		IN T S T R
NOT ENTER ATION WITH T. THE T BE		IRRIGATION CONTRACT WORK WITH APPLICABLE CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE, CONDUIT OR SLEEVES THROUGH OR UNDER WALLS, ROADWAYS, PAVING AND STRUCTURES BEFORE CONSTRUCTION. IN THE EVENT THESE NOTIFICATIONS ARE NOT PERFORMED, THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR REQUIRED REVISIONS.	21.	D S S F
E RECYCLED SHALL BE	2.	THE CONTRACTOR SHALL REVIEW RELATED DRAWINGS AND SHALL ENSURE COORDINATION WITH ALL APPLICABLE TRADES PRIOR TO SUBMITTING BID.		G IN A
IG TAPE R SIMILAR	3.	THE IRRIGATION SYSTEM SHALL BE INSTALLED IN CONFORMANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES BY LICENSED CONTRACTORS AND EXPERIENCED WORKMEN. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND FEES RELATING TO HIS WORK.	22.	0
			23.	C
ROR	4.	UNDERGROUND SERVICE ALERT (USA): FOR EXISTING UTILITY LOCATIONS, CONTRACTOR SHALL NOTIFY USA, 811 OR 800.227.2600 AT LEAST TWO (2) FULL WORKING DAYS PRIOR TO ALL PLANNED WORK OPERATIONS. THE U.S.A. AUTHORIZATION NUMBER SHALL BE KEPT AT THE SITE.		BS
BUX LID BY T.			24.	R
RPLE TO (1) DYED	5.	EXISTING UTILITIES, UNDERGROUND FACILITIES & SITE IMPROVEMENTS: LOCATIONS & ELEVATIONS OF ALL EXISTING UTILITIES (UNDERGROUND & OVERHEAD) & SITE IMPROVEMENTS, IF SHOWN ON THE PLANS, ARE APPROXIMATE ONLY. FIELD VERIFY LOCATION. PROTECT EXISTING UTILITIES & SITE IMPROVEMENTS FROM DAMAGE. CONTRACTOR TO TAKE SPECIAL PRECAUTIONS WHEN WORKING NEAR HIGH RISK UTILITIES.		W N A
			25.	١N
DL VALVES, ( 4—INCH, D: AQUA	6.	CONTRACTOR SHALL CONTACT THE RESPECTIVE UTILITY COMPANY TO OBTAIN INFORMATION REGARDING THE EXACT DEPTH OF BURIAL & HORIZONTAL LOCATION OF UTILITY LINES AS NECESSARY, CONTRACTOR SHALL COORDINATE ALL NECESSARY UTILITY RELOCATIONS & ADJUSTMENTS WITH THE APPROPRIATE UTILITY COMPANIES.	20.	B D LI D
RIGATION SSIBLE YCLED	7.	PRIOR TO PERFORMING UNDERGROUND CONSTRUCTION, THE CONTRACTOR SHALL MAKE THE NECESSARY PROBES TO IDENTIFY AREAS OF POSSIBLE CONFLICT WITH PROPOSED CONSTRUCTION AS CONTRACTOR SHALL EXCAVATE TO DETERMINE TYPES, EXTENT, SIZE, AND DEPTHS OF UNDERGROUND UTILITIES. COORDINATE WORK TO AVOID CONFLICTS BETWEEN PROPOSED IMPROVEMENTS & EXISTING UNDERGROUND FACULTIES, SEWER LATERALS, STORM DRAINS, & WATER	26.	M Ll W
		TACIENTES, SEWER DATERALS, STORIN DRAINS & WATER	70	••
OF PIPE IT IS UNDER HE PIPING	8.	FIELD CHANGES: CONTRACTOR SHALL NOTIFY CITY'S REPRESENTATIVE IMMEDIATELY UPON DISCOVERY OF ANY POTENTIAL FIELD CHANGES. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT WRITTEN AUTHORIZATION FROM THE CITY.	27.	P IN D C
VATER SHALL HAVE	9.	SITE RESTORATION: CONTRACTOR SHALL REPLACE OR RESTORE TO PRECONSTRUCTION CONDITION ALL PAVING, UTILITIES, SERVICES, IRRIGATION, LANDSCAPE MATERIALS, PAVEMENT DELINEATION & OTHER IMPROVEMENTS, THAT ARE NOT TO BE REMOVED BUT ARE DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL EXPENSE TO THE OWNER.	28.	A IN F <sup>'</sup> C
NLY. T	10.	CONTRACTOR SHALL NOTE AND INSTALL SLEEVE LOCATIONS AS SHOWN ON IRRIGATION PLANS. IN ADDITION TO THE SLEEVES AND CONDUITS SHOWN ON THE DRAWINGS, THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF SLEEVES AND CONDUITS OF SUFFICIENT SIZE UNDER ALL PAVED AREAS.	29.	W T IF C
IMIZES S THAT AY TO NTO A ITH	11.	THE IRRIGATION SYSTEM SHALL BE INSTALLED BY A LICENSED CONTRACTOR IN CONFORMANCE WITH ALL APPLICABLE STATE AND LOCAL CODES/ORDINANCES. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND FEES RELATED TO HIS WORK ON THE PROJECT.	30.	A A W
NNER.	17	IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE HIMSELE WITH GRADE DIFFERENCES AND		IN P
	12.			~

- WITH ALL LOCATIONS OF STRUCTURES, UTILITIES, AND FENCES. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHERS FOR THE LOCATION AND INSTALLATION OF PIPE SLEEVES AND
- 13. IRRIGATION EQUIPMENT NOT OTHERWISE DETAILED OR SPECIFIED SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
- 14. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH AN ACCURATE AS-BUILT SET OF IRRIGATION DRAWINGS PRIOR TO FINAL ACCEPTANCE OF THE WORK. THE AS-BUILT DRAWINGS SHALL BE DELINEATED ON REPRODUCIBLE MATERIALS TO BE SUPPLIED BY THE LANDSCAPE ARCHITECT.
- 15. INSTALL REMOTE CONTROL VALVE BOXES 12" FROM WALK, CURB, HEADER BOARD, BUILDING, OR LANDSCAPE FEATURE. AT MULTIPLE VALVE BOX GROUPS EACH BOX SHALL BE AN EQUAL DISTANCE FROM THE WALK, CURB, LAWN, ETC, AND EACH BOX SHALL BE 12" APART, SHORT SIDE OF RECTANGULAR BOX SHALL BE PARALLEL TO WALK, CURB, ETC. DO NOT LOCATE BOXES WITHIN BIORETENTION AREAS.
- 16. FOR PLANTS ON A SLOPE, LOCATE SHRUB BUBBLER ON UP-SLOPE OF PLANT.
- 17. THE IRRIGATION CONTRACTOR SHALL FLUSH AND ADJUST ALL BUBBLER HEADS FOR OPTIMUM PERFORMANCE AND TO PREVENT RUNOFF ONTO WALKS OR ROADWAYS AS MUCH AS POSSIBLE. THROTTLE THE FLOW CONTROL OR ADJUST THE PRESURE REGULATION MODULE AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH SYSTEM. ALL MAIN LINES SHALL BE FLUSHED PRIOR TO THE INSTALLATION OF BUBBLERS. AT 30 DAYS AFTER INSTALLATION EACH SYSTEM SHALL BE FLUSHED TO ELIMINATE GLUE AND DIRT PARTICLES FROM THE LINES
- 18. PLASTIC VALVE BOXES ARE TO BE PURPLE IN COLOR WITH BOLT DOWN, NON-HINGED COVER MARKED "IRRIGATION". BOX SHALL HAVE KNOCK OUTS. MANUFACTURER SHALL BE CARSON INDUSTRIES. VALVE BOX LIDS SHALL BE HEAT STAMPED OR ENGRAVED IN 1-1/2" LETTERS THE CONTENTS OF THE BOX. (REMOTE CONTROL VALVE NUMBERS (C-5), QUICK COUPLING VALVE (QC), GATE VALVE (GV), MASTER VALVE (MV), FLOW SENSOR (FS), WIRE SPLICE (WS), ETC.)

- APPLICABLE.
- RESPONSIBILITY FOR ANY REVISIONS NECESSARY.
- ARCHITECTURAL FEATURES.

- DRAINAGE.

- VALK, CURB, LAWN, ETC.
- AUTHORIZED REPRESENTATIVE.
- PREVENT RUN OFF OUTSIDE OF LANDSCAPE AREAS.
- INSTALLED THE LANDSCAPE.

THE CONTRACTOR SHALL FLUSH, AND ADJUST ALL HEADS AND VALVES FOR OPTIMUM COVERAGE WHERE

O NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE, IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL

DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, SLEEVES, ETC., WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISHED CONDITIONS AFFECTING ALL OF HIS WORK AND PLAN HIS WORK ACCORDINGLY, URNISHING SUCH FITTINGS, ETC., AS MAY BE REQUIRED TO MEET SUCH CONDITIONS. DRAWINGS ARE SENERALLY DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. THEN WORK SHALL BE NSTALLED IN SUCH A MANNER AS TO AVOID CONFLICTS BETWEEN IRRIGATION SYSTEMS, PLANTING, AND

DPERATE IRRIGATION CONTROLLER(S) BETWEEN THE HOURS OF 9:00 PM AND 7:00 AM.

CONTROL WIRES SHALL BE UL APPROVED COPPER SINGLE STRAND TYPE UF DIRECT BURIAL 14 GAUGE RED IN COLOR. COMMON WIRES SHALL BE UL APPROVED COPPER SINGLE STRAND TYPE UF DIRECT BURIAL 12 GAUGE WHITE IN COLOR. SPARE CONTROL WIRES SHALL BE UL APPROVED COPPER SINGLE STRAND TYPE UF DIRECT BURIAL 14 GAUGE BLUE IN COLOR.

REMOTE CONTROL VALVES SHALL BE WIRED TO CONTROLLER IN SEQUENCE AS SHOWN ON PLANS. RUN VIRE FROM EACH RCV TO THE CONTROLLER. SPLICING WIRES TOGETHER OUTSIDE OF VALVE BOXES WILL NOT BE PERMITTED. LEAVE A 36" COIL OF EXCESS WIRE AT EACH SPLICE AND 100 FEET ON CENTER ALONG WIRE RUN. TAPE WIRE IN BUNDLES 10 FEET ON CENTER. NO TAPING PERMITTED INSIDE SLEEVES.

NSTALL KBI BPC SERIES (OR EQUAL) IN-LINE 5# SPRING CHECK VALVES FOR DRIP BUBBLER AND TREE BUBBLER LATERAL LINES AT EVERY 10' ELEVATION CHANGE OR AS NEEDED TO PREVENT LOW HEAD RAINAGE. KBI KSC SERIES (OR EQUAL) SOLVENT WELD SWING CHECK VALVES CAN BE USED IN LATERAL INES TO ISOLATE WATER FROM REVERSE FLOW WHERE NEEDED AT SLOPES TO PREVENT LOW HEAD

MAINTAIN 6" MINIMUM CLEARANCE BETWEEN SOLVENT WELD FITTINGS ON IRRIGATION MAINLINE AND LATERAL INE PIPES. MAINTAIN MINIMUM 10' CLEARANCE BETWEEN POTABLE AND CONSTANT PRESSURE RECYCLED VATER MAINLINES LINES. MAINTAIN MINIMUM 3' CLEARANCE BETWEEN CONSTANT PRESSURE RECYCLED VATER MAINLINE AND PG&E FACILITIES PER PG&E UO STANDARD S5453.

WHERE IT IS NECESSARY TO EXCAVATE ADJACENT TO EXISTING TREES, THE CONTRACTOR SHALL USE ALL POSSIBLE CARE TO AVOID INJURY TO TREES, AND TREE ROOTS. EXCAVATION IN AREAS WHERE TWO (2) NCH AND LARGER ROOTS OCCUR SHALL BE DONE BY HAND. ROOTS TWO (2) INCHES AND LARGER IN DIAMETER SHALL BE WRAPPED IN BURLAP UNTIL BACKFILLED. TRENCHES ADJACENT TO TREE SHOULD BE CLOSED WITHIN TWENTY-FOUR (24) HOURS; WHERE THIS IS NOT POSSIBLE, THE SIDE OF THE TRENCH ADJACENT TO THE TREE SHALL BE KEPT SHADED WITH BURLAP OR CANVAS.

NSTALL VALVE BOXES 12" FROM AND PERPENDICULAR TO WALK, CURB, BUILDING OR LANDSCAPE EATURE. AT MULTIPLE VALVE BOX GROUPS, EACH BOX SHALL BE AN EQUAL DISTANCE FROM THE WALK, CURB, ETC. AND EACH BOX SHALL BE 12" APART. SHORT SIDE OF VALVE BOX SHALL BE PARALLEL TO

THE IRRIGATION SYSTEM DESIGN IS BASED ON THE MINIMUM OPERATING PRESSURE SHOWN ON THE RRIGATION DRAWINGS. THE IRRIGATION CONTRACTOR SHALL VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. REPORT ANY DIFFERENCE BETWEEN THE WATER PRESSURE INDICATED ON THE DRAWINGS AND THE ACTUAL PRESSURE READING AT THE IRRIGATION POINT OF CONNECTION TO THE OWNER'S

WHEN VERTICAL OBSTRUCTIONS (STREET LIGHTS, TREES, FIRE HYDRANTS, ETC.) INTERFERE WITH NSTALLATION OF THE BUBBLERS. THE IRRIGATION CONTRACTOR SHALL FIELD ADJUST THE SYSTEM BY ROUTING AROUND THE SIDES OF THE OBSTRUCTION SO AS TO PROVIDE PROPER COVERAGE. ALL ADJUSTMENTS SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.

31. THE DESIGN INTENT OF THE IRRIGATION SYSTEM IS TO PROVIDE COMPLETE COVERAGE WITH NO RUN-OFF ONTO WALKWAYS AND PAVEMENT. ADJUST IRRIGATION TO CONTAIN BUBBLERS WITHIN PLANTING AREAS AND

32. CONTRACTOR SHALL PROVIDE MONTHLY SCHEDULE FOR ESTABLISHMENT PERIOD & FOLLOWING YEAR. LANDSCAPE AND IRRIGATION MAINTENANCE SCHEDULE, IRRIGATION AUDIT, IRRIGATION SURVEY, AND IRRIGATION WATER USE ANALYSIS SHALL BE SUBMITTED WITH THE CERTIFICATE OF COMPLETION IN COMPLIANCE WITH STATE OF CALIFORNIA MODEL WATER EFFICIENT, CONTRACTOR SHALL INPUT ALL REQUIRED DATA INTO CONTROLLERS TO ALLOW SELF SCHEDULING INCLUSIVE OF PLANT SPECIES, PLANT WATER REQUIREMENTS, EXPOSURE, SOIL TYPE, SLOPE, IRRIGATION TYPE AND IRRIGATION EFFICIENCY.

33. THE APPLICANT SHALL SUBMIT AN IRRIGATION AUDIT REPORT WITH THE CERTIFICATE OF COMPLETION TO THE LOCAL AGENCY THAT MAY INCLUDE, BUT IS NOT LIMITED TO: INSPECTION, SYSTEM TUNE-UP, SYSTEM TEST WITH DISTRIBUTION UNIFORMITY, REPORTING OVERSPRAY OR RUN OFF THAT CAUSES OVERLAND FLOW, AND PREPARATION OF AN IRRIGATION SCHEDULE, INCLUDING CONFIGURING IRRIGATION CONTROLLERS WITH APPLICATION RATE, SOIL TYPES, PLANT FACTORS, SLOPE, EXPOSURE AND OTHER FACTORS NECESSARY FOR ACCURATE PROGRAMING, IRRIGATION AUDIT SHALL BE CONDUCTED BY A THIRD PARTY IRRIGATION AUDITOR. LANDSCAPE AUDITS SHALL NOT BE CONDUCTED BY THE PERSON WHO DESIGNED THE LANDSCAPE OR

![](_page_24_Figure_59.jpeg)

![](_page_25_Figure_0.jpeg)

![](_page_25_Figure_1.jpeg)

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VE BOX SIDES. LT DOUN LIDS.	9	
LIDS SHALL BE HOT STAMPED WITH "RW" , MBER. ALL VALVE BOXES AND LIDS PROVED FOR RECYCLED WATER USE.		
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![](_page_26_Figure_0.jpeg)

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![](_page_27_Figure_1.jpeg)

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FINLEY AQUATIC CENTER SPRAY GROUND AND RENOVATION PROJECT L4.5 - CONSTRUCTION DETAILS									
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-- "NO DIVING" GRAPHICS CENTER VERTICALLY ON "NO DIVING" SIGN (15) SP1.4

![](_page_31_Figure_0.jpeg)

![](_page_31_Figure_2.jpeg)

SCALE: NONE

# **\*\* PRELIMINARY - NOT FOR CONSTRUCTION \*\***

General: Contractor shall be responsible for the verification and coordination of dimensions and for the proper fit-up of field foundations. Any discrepancies and inconsistencies between actual field conditions and/or dimensions and plan dimensions shall be immediately reported to the Engineer of Record. Temporary construction means and methods and safety provisions are the sole responsibility of the contractor.

The design and provision of all temporary supports such as guys, braces, false work, cribbing, or any other temporary elements required for the execution of the contract shall be the responsibility of the contractor. Temporary supports shall not result in the overstress or damage of the elements to be braced or any elements used as brace supports. 2015 International Building Code is the basic code document used in the preparation of these structural documents. Additional codes and references are as noted. All structural work shall be in conformance with all local codes, in addition to

this basic code document. All phases of the work shall conform to the minimum standards of the 2015 International Building Code and all other regulating agencies exercising authority over any portion of the work. The contract structural drawings and specifications represent the finished structure unless otherwise indicated. They do not

indicate the method of construction. All ASTM specifications noted in this drawing shall be of the latest revisions.

In the event certain features of the construction are not fully shown on the drawings or called for in the notes or specifications, their construction shall be of the same character as for similar conditions that are shown or called for and shall be reviewed by the Engineer Of Record.

### Structural Design Criteria:

Structural design is based as per IBC2015	
Live load (Including Snow): 1607.3	5 PSF.
Roof dead load:	0.5 PSF.
Wind speed (3-second gust):	115 MPH
Exposure: 1609.4.2	С
Risk Category: I 604.5	11
Importance Factor (I):	1.0

Note: Membrane(s) must be removed if roof load or snow load is expected to exceed 5 psf and/or wind speed is expected to exceed an ultimate design basic wind speed of 115 mph or a nominal design basic wind speed of 90mph.

### Soil Profile Type / Foundation:

Site Class (Section 1613.3.2, IBC2015) "D" whenever the soil encountered appears to vary from the assumed type or expansive soil or local fill is found at the site the engineer of record needs to be contacted before proceeding further with the construction. Sds .084

### 5dl .053 Concrete:

Concrete design and reinforcement shall be in accordance with "Building Code requirements for structural concrete", ACI 3 8-05 and with "Details and detailing of Concrete Reinforcement", ACI 3 5-92. All Concrete work shall be in accordance with the latest edition of the "Standard Specifications for Structural Concrete", ACI 301

Cast-In-Place shall be normal weight concrete with design strength of 3,000 PSI at 28 days, a slump between 5 and 7 inches, maximum Water/Cement Ratio of 0.45, and a minimum Cement Content of 520 lb/CY and a maximum Aggregate Size of

Contractor shall be responsible for the adequacy of the forms and shoring and safe practice in their use and removal. Concrete that has not been placed prior to 1.5 hours after the initial mixing water was added shall not be placed regardless of temperature or slump. Placing of concrete in piers shall be through "Elephant Trunk" tubular chutes located such that the free air drop of the concrete does not exceed 8 feet. Alternate placement methods of concrete shall not be used unless approved by the Engineer.

### Concrete Reinforcing:

Reinforcing steel shall be deformed new billet steel bars in accordance with A.S.T.M. specifications AG I 5 Grade 60. All hooks and bends in reinforcing bars shall conform to ACI detailing standards unless shown otherwise. The welding of reinforcing steel will not be permitted. Reinforcing steel clear cover shall be as follows:

### A. Drilled Piers: 3" Bottom, 3" Sides.

### Drilled Piers:

Pier Design is based on an assumed allowable loading of 1,500 PSF in end bearing and 500 PSF in side friction. Reinforcing cage shall be held securely away from earth at sides and bottom by sets of 3 precast concrete spacer blocks at a maximum spacing of 8ft. along the length of the cage and 1'-0" from bottom unless shown otherwise. Pier reinforcing and concrete shall be placed immediately after drilling operations are complete; in no case shall a pier be drilled that cannot be poured by the end of the workday. Precautions should be taken during the placement of reinforcement and concrete to prevent the loose material from falling

into the excavation. Prior to the placement of concrete, water should be removed from the pier excavation.

The Contractor shall verify depths of piers before steel is cut. Pier steel may be delivered to the jobsite in standard lengths and cut as required. Provide 64 bar diameter laps in all vertical pier reinforcing.

### Structural Steel

Rolled steel plates, shapes, and bars shall be structural quality carbon steel complying with ASTM A-36, except where other type steel is shown. Structural steel tubular products shall be cold formed structural quality carbon steel, welded or seamless, complying with

ASTM A500, Grade B. Pipe columns shall conform to the requirements of ASTM A-500 Grade B (Unless noted otherwise on the Plans). All structural steel shall be fabricated and erected in accordance with the drawings and as recommended by AISC Manual of

Steel Construction. Steel telescoped sleeves do not have more than 1/16" tolerance, with no less than 12" overlap at all sleeves. All internal

fittings are plug welded on two sides. Steel tubing and plates are finished with a minimum of 2.5 to 3.5 MIL thick UV-inhibited weather resistant powder coat. Where size of structure or determined loads require larger structural steel members or steel greater than 7 gauge thickness, carbon steel may be substituted. Cleaning and coating of carbon steel conforms to the following:

A de-greasing agent is applied to remove surface oil and grease. An acid-phosphate wash be applied to etch and prepare the surface for powder-coating, where wall thickness requires

pre-heating. Steel members are to be pre-heated prior to powder coat application to assure adhesion. Welding shall be in accordance with the drawings and as recommended by applicable AWS specifications. Welding Rods to be

low hydrogen type E70 or gas-metal arc using ER 7053 wire. Welds have been designed with single pass fillet welds. All steel shall be welded shut at terminations to prevent water inclusion inside structural members. Welders shall be certified in accordance with the latest edition of the American Welding Society specifications and qualifications.

All welding will be shop welded, field connections will be bolted. Bolted connections have been designed to be tightened according to the turn-of-the-nut method.

Bolts, nuts, washers, lags and screws shall be medium carbon steel: size and type to suit applications; zinc plated for exterior locations. Stranded cable with zinc coatings, class A, minimum tensile strength equal 7000 LBS.

Membrane Top (Canopy):

Membrane cover shall be fabricated with UV resistant 100% High Density Polyethylene, flame-resistant Architectural Mesh. Meets ASTM -E-84 (Class A Fire Rating) where required. Membrane canopy should be stretched and tensioned by applying axial tension to the canopy perimeter cable as required to achieve structural integrity of the membrane and reduce fluttering and vibrations under wind load. Sag on tensioned perimeter cables should be between 3 and 3.5% of cable chord.

![](_page_31_Picture_59.jpeg)

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![](_page_31_Picture_61.jpeg)

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![](_page_32_Figure_0.jpeg)

### Contractor shall be responsible for the verification and coordination of dimensions and for the proper fit-up of field foundations. Any discrepancies and inconsistencies between actual field conditions and/or dimensions and plan dimensions shall be immediately reported to the Engineer of Record.

Temporary construction means and methods and safety provisions are the sole responsibility of the contractor. The design and provision of all temporary supports such as guys, braces, false work, cribbing, or any other temporary elements required for the execution of the contract shall be the responsibility of the contractor. Temporary supports shall not result in the overstress or damage of the elements to be braced or any elements used as brace supports. 2015 International Building Code is the basic code document used in the preparation of these structural documents. Additional codes and references are as noted. All structural work shall be in conformance with all local codes, in addition to this basic code document.

All phases of the work shall conform to the minimum standards of the 2015 International Building Code and all other regulating agencies exercising authority over any portion of the work. The contract structural drawings and specifications represent the finished structure unless otherwise indicated. They do not indicate the method of construction.

All ASTM specifications noted in this drawing shall be of the latest revisions.

In the event certain features of the construction are not fully shown on the drawings or called for in the notes or specifications, their construction shall be of the same character as for similar conditions that are shown or called for and shall be reviewed by the Engineer Of Record.

# Structural Design Criteria: Structural design is based as per IBC2015

Live load (Including Snow): I 607.3 5 PSF. 0.5 PSF. Roof dead load:

id speed (3-second gust):	II5 MPH.
posure: 1609.4.2	С
k Category: I 604.5	
vortance Factor (I):	1.0

Note: Membrane(s) must be removed if roof load or snow load is expected to exceed 5 psf and/or wind speed is expected to exceed an ultimate design basic wind speed of 115 mph or a nominal design basic wind speed of 90mph.

### Soil Profile Type / Foundation:

Site Class (Section 1613.3.2, IBC2015) "D" whenever the soil encountered appears to vary from the assumed type or expansive soil or local fill is found at the site the engineer of record needs to be contacted before proceeding further with the construction. Sds .084

5d1 .053

### Concrete:

Concrete design and reinforcement shall be in accordance with "Building Code requirements for structural concrete", ACI 318-05 and with "Details and detailing of Concrete Reinforcement", ACI 315-92. All Concrete work shall be in accordance with the latest edition of the "Standard Specifications for Structural Concrete", ACI

Cast-In-Place shall be normal weight concrete with design strength of 3,000 PSI at 28 days, a slump between 5 and 7 inches, maximum Water/Cement Ratio of 0.45, and a minimum Cement Content of 520 lb/CY and a maximum Aggregate Size of I inch.

Contractor shall be responsible for the adequacy of the forms and shoring and safe practice in their use and removal. Concrete that has not been placed prior to 1.5 hours after the initial mixing water was added shall not be placed regardless of temperature or slump. Placing of concrete in piers shall be through "Elephant Trunk" tubular chutes located such that the free air drop of the concrete does not exceed 8 feet. Alternate placement methods of concrete shall not be used unless approved by the Engineer.

### Concrete Reinforcing:

Reinforcing steel shall be deformed new billet steel bars in accordance with A.S.T.M. specifications AG15 Grade GO. All hooks and bends in reinforcing bars shall conform to ACI detailing standards unless shown otherwise. The welding of reinforcing steel will not be permitted. Reinforcing steel clear cover shall be as follows:

3" Bottom, 3" Sides. A. Drilled Piers:

### Drilled Piers:

Pier Design is based on an assumed allowable loading of 1,500 PSF in end bearing and 500 PSF in side friction. Reinforcing cage shall be held securely away from earth at sides and bottom by sets of 3 precast concrete spacer blocks at a maximum spacing of 8ft. along the length of the cage and 1'-0" from bottom unless shown otherwise. Pier reinforcing and concrete shall be placed immediately after drilling operations are complete; in no case shall a pier be drilled that cannot be poured by the end of the workday. Precautions should be taken during the placement of reinforcement and concrete to prevent the loose material from falling

Prior to the placement of concrete, water should be removed from the pier excavation. The Contractor shall verify depths of piers before steel is cut. Pier steel may be delivered to the jobsite in standard lengths and cut as required. Provide 64 bar diameter laps in all vertical pier reinforcing.

### Structural Steel:

Rolled steel plates, shapes, and bars shall be structural quality carbon steel complying with ASTM A-36, except where other type steel is shown.

Structural steel tubular products shall be cold formed structural quality carbon steel, welded or seamless, complying with ASTM A500, Grade B.

Pipe columns shall conform to the requirements of ASTM A-500 Grade B (Unless noted otherwise on the Plans). All structural steel shall be fabricated and erected in accordance with the drawings and as recommended by AISC Manual of Steel Construction

Steel telescoped sleeves do not have more than 1/16" tolerance, with no less than 12" overlap at all sleeves. All internal fittings are plug welded on two sides. Steel tubing and plates are finished with a minimum of 2.5 to 3.5 MIL thick UV-inhibited weather resistant powder coat.

Where size of structure or determined loads require larger structural steel members or steel greater than 7 gauge thickness, carbon steel may be substituted. Cleaning and coating of carbon steel conforms to the following: A de-greasing agent is applied to remove surface oil and grease. An acid-phosphate wash be applied to etch and prepare the surface for powder-coating, where wall thickness requires pre-heating.

Steel members are to be pre-heated prior to powder coat application to assure adhesion. Welding shall be in accordance with the drawings and as recommended by applicable AWS specifications. Welding Rods to be low hydrogen type E70 or gas-metal arc using ER 7053 wire. Welds have been designed with single pass fillet welds. All steel shall be welded shut at terminations to prevent water inclusion inside structural members. Welders shall be certified in accordance with the latest edition of the American Welding

Society specifications and qualifications. All welding will be shop welded, field connections will be bolted.

Bolted connections have been designed to be tightened according to the turn-of-the-nut method. Bolts, nuts, washers, lags and screws shall be medium carbon steel: size and type to suit applications; zinc plated for exterior locations

Stranded cable with zinc coatings, class A, minimum tensile strength equal 7000 LBS.

### Membrane Top (Canopy):

Membrane cover shall be fabricated with UV resistant 100% High Density Polyethylene, flame-resistant Architectural Mesh. Meets ASTM -E-84 (Class A Fire Rating) where required. Membrane canopy should be stretched and tensioned by applying axial tension to the canopy perimeter cable as required to achieve structural integrity of the membrane and reduce fluttering and vibrations under wind load. Sag on tensioned perimeter cables should be between 3 and 3.5% of cable chord.

![](_page_32_Picture_55.jpeg)

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FILE NO. 2022-014

# STRUCTURAL SPECIFICATIONS

### WOOD CONSTRUCTION (CARPENTRY)

1. EACH PIECE OF LUMBER SHALL BEAR THE STAMP OF THE WEST COAST LUMBER INSPECTION BUREAU (WCLIB) OR WESTERN WOOD PRODUCTS ASSOCIATION (WWPA) SHOWING GRADE MARK OR APPROVED EQUAL. BEAMS AND POSTS TO BE FREE OF HEART CENTER (FOHC). OTHER MATERIALS SHALL BE AS SHOWN BELOW:

SAWN LUMBER MEMBER	SPECIES AND MINIMUM GRADE, UNO	F <sub>b</sub> (PSI)	$F_{v}$ (PSI)	E (PSI)
6x POSTS	DOUGLAS FIR - #1	1200	170	1.6x10 <sup>6</sup>
6x BEAMS	DOUGLAS FIR - #1	1350	170	1.6x10 <sup>6</sup>
4x POSTS & BEAMS	DOUGLAS FIR - #1	1000	180	1.7x10 <sup>6</sup>
2x JOISTS, RAFTERS	DOUGLAS FIR - #2	900	180	1.6x10 <sup>6</sup>

2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THE MAXIMUM MOISTURE CONTENT OF WOOD AT THE TIME OF INSTALLATION SHALL BE NOT MORE THAN 19%.

3. NAILS TO BE ASTM F1667 (INCLUDING SUPPLEMENT S1) OF COMMON WIRE AND OF CENTERED FULL-ROUND HEADS WHERE NAILING IS SPECIFIED ON THE DRAWINGS. MACHINE-DRIVEN NAILS MEETING SIZE REQUIREMENTS ARE ACCEPTABLE. NAILS MUST NOT BE OVER-DRIVEN. PRE-DRILL NAIL HOLES WHERE WOOD TENDS TO SPLIT. NAILS AS SPECIFIED ON PLANS AND INCLUDING IN PTDF MATERIAL CONTAINING AMMONIA IN EXTERIOR APPLICATIONS SHALL BE TYPE 304 OR 316 STAINLESS STEEL NAILS USED IN EXTERIOR APPLICATIONS OR IN INTERIOR PTDF SHALL BE HOT-DIPPED GALVANIZED PER ASTM A153.

WIRE NAIL	MINIMUM SHANK DIAMETER	MINIMUM NAIL LENGTH UNO	MINIMUM HEAD DIAMETER	TYPICAL NAIL APPLICATION, UNO
16d COMMON	0.162"	31⁄2"	0.344"	FRAMING
16d SINKER	0.148"	3¼"	0.344"	FRAMING
10d COMMON	0.148"	3"	0.312"	FRAMING

- 4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ASSURE THAT THE METAL FRAMING CLIPS, HANGERS, ETC. ARE BY SIMPSON STRONG-TIE. NAILING SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS WITH A NAIL PROVIDED FOR EACH PUNCHED HOLE UNO. CONNECTORS AS SPECIFIED ON PLANS AND THOSE IN CONTACT WITH PTDF MATERIAL CONTAINING AMMONIA IN EXTERIOR APPLICATIONS SHALL BE TYPE 304 OR 316 STAINLESS STEEL. ALL OTHER CONNECTORS USED IN EXTERIOR APPLICATIONS OR INTERIOR PTDF SHALL BE HDG (MINIMUM 2.0 oz/SQ FT) OR ZMAX (MINIMUM 1.85 oz/SQ FT PER ASTM A653). IN APPLICATIONS WHERE NON-AMMONIA TREATED WOOD IS DRY WHEN INSTALLED AND WILL REMAIN DRY IN-SERVICE A COATING THICKNESS OF 0.9 oz/SQ FT MAY BE USED.
- 5. WOOD SCREWS SHALL CONFORM TO ANSI/ASME B18.6.1. PROVIDE PILOT HOLE 70% OF DIAMETER OF SCREW SHANK WHERE FASTENING HARDWOOD TIMBER SPECIES OR WHERE WOOD TENDS TO SPLIT. MINIMUM PENETRATION IS (10) DIAMETERS, UNO.
- 6. BOLTS SHALL BE UNFINISHED MACHINE BOLTS PER ASTM A307. NUTS SHALL BE PER ASTM A563 AND OF STANDARD SIZE UNLESS NOTED OTHERWISE. LENGTH OF BOLTS SHALL BE SUCH THAT THE BOLT PROJECTION IS NOT LESS THAN  $\frac{1}{16}$ " NOR MORE THAN  $\frac{1}{2}$ " PAST END OF NUT. BOLT HOLES IN WOOD SHALL BE  $\frac{1}{2}$ " LARGER THAN BOLT SIZES (UNO). PROVIDE STANDARD CUT WASHERS UNDER HEAD AND NUT WHERE BOLT HEADS WOULD BEAR ON WOOD. USE MALLEABLE IRON WASHERS WHERE EXPOSED TO VIEW OR NOTED. NUTS SHALL BE TIGHTENED WHEN PLACED AND RETIGHTENED BEFORE CLOSING IN OF WALLS OR OTHER CONSTRUCTION. DO NOT CRUSH WOOD WHEN TIGHTENING. BOLTS AS SPECIFIED ON PLANS AND THOSE IN CONTACT WITH PTDF MATERIAL CONTAINING AMMONIA IN EXTERIOR APPLICATIONS SHALL BE TYPE 304 OR 316 STAINLESS STEEL. ALL OTHER BOLTS USED IN EXTERIOR APPLICATIONS SHALL BE HOT-DIPPED GALVANIZED PER ASTM A153.
- 7. WOOD AGAINST CMU OR CONCRETE SHALL BE PRESSURE TREATED DOUGLAS FIR (PTDF) PER AWPA STANDARD U1. "USE CATEGORY" UC2 AT INTERIOR. "USE CATEGORY" UC3B AT EXTERIOR (NO GROUND CONTACT). CUT FACES SHALL BE BRUSH TREATED WITH EQUIVALENT PRESERVATIVE PRIOR TO INSTALLATION.
- 8. DECKING MATERIAL AND FRAMING EXPOSED TO WEATHER TO BE PTDF AWPA "USE CATEGORY" UC3B OR REDWOOD, SAD.
- 9. WOOD ADHESIVE SHALL BE WATER-PROOF, CARTRIDGE DISPENSED, MEETING APA PRODUCT SPECIFICATION AFG-01 OR ASTM D3498. LOCTITE "PL PREMIUM" OR EQUAL FOR USE AT SUBFLOOR SHEATHING AND WHERE SPECIFICALLY NOTED FOR USE ON DRAWINGS.

ΔR	ANCHOR BOLT	FTG	FOOTING	PNI	PANEI
ABV	ABOVE	GA	GAGE or GAUGE	PSF	POUNDS PER SQUARE FOOT
AC	AIR CONDITIONING	GALV		PSI	POUNDS PER SQUARE INCH
AD.I	ADJACENT	GB	GRADE BEAM	PSI	PARALLEL STRAND LUMBER
ADDI	ADDITIONAL	GI	GRIDI INF	PTDE	PRESSURE TREATED
ALT	ALTERNATE	GLB	GI LIE LAMINATED BEAM		DOUGLAS FIR
	ALUMINUM	GR	GRADE	DT	POINT
ARCH	ARCHITECT	HD	HOLD DOWN	R	RADIUS
AYC	ALASKAN YELLOW CEDAR	HDG	HOT-DIP GAI VANIZED	RBS	REDUCED BEAM SECTION
<i>@</i>	AT	HDR	HEADER	RETR	RAFTER
BF	BRACED FRAME	HGR	HANGER	REF	REFERENCE
BIDG	BUILDING	нк	HOOK	REINE	REINFORCING
BI K/BI KG	BLOCK/BLOCKING	HORIZ	HORIZONTAL	REOD	REQUIRED
BLW	BELOW	HSB	HIGH STRENGTH BOI T	RFT	RETAINING
BM	BEAM	HSG	HIGH STRENGTH GROUT	REV	REVISION
BN	BOUNDARY NAIL	HSH	HORIZONTAL SLOTTED	RF	ROOF
BOT	BOTTOM		HOLE	RWD	REDWOOD
BRG	BEARING	HSS	HOLLOW STRUCTURAL	s	AMERICAN STANDARD BEAM
BTWN	BETWEEN		SECTION	SAD	SEE ARCHITECTURAL
BU	BUILT-UP	нт	HEIGHT	0,12	DRAWINGS
BYND	BEYOND	ID.		SB	SOLID BLOCK
C	AMERICAN STANDARD	1.1	I SHAPED WOOD BUILT	SC	SLIP CRITICAL
-	CHANNEL		UP TRUSS	SCD	SEE CIVIL DRAWINGS
CA	CALIFORNIA	INT	INTERIOR	SCHED	SCHEDULE
CANT	CANTILEVER	JST	JOIST	SED	SEE ELECTRICAL DRAWINGS
CB	CARRIAGE BOI T	JT.	JOINT	SEOR	STRUCTURAL ENGINEER OF
CES	COLD FORMED STEEL	KP	KING POST	JEON	RECORD
CIP	CAST IN PLACE	1	STEEL ANGLE	SERS	SEISMIC FORCE RESISTING
CGI		L b or #	POUND(s)	51 13	SVSTEM
CI		LGME	LIGHT GAGE METAL	SHTC	SHEATHING
C.		LOW	FRAMING	SIM	SIMILAR
Č.IP		LGMEC	LIGHT GAGE METAL	SKVIT	SKYLIGHT
001	PENETRATION	LOWING	FRAMING CONTRACTOR	SID	SEE LANDSCAPE DRAWINGS
CLG	CEILING	11		SMC	
CLR	CLEAR	LLH		SIVIS	
COL				SIVID	
CONC	CONCRETE	LOC		506	
CONN	CONNECTION	15	LAG SCREW	SPCG	
CONT	CONTINUOUS	I SI	LAMINATED STRAND LUMBER		
COORD			LAMINATED VENEER LUMBER	SFEC	SPECIFICATION
COORD	COORDINATION	LWC	LIGHTWEIGHT CONCRETE	30	
CMU	CONCRETE MASONRY LINIT	MAX		55	
CSK	COUNTERSINK	MB	MACHINE BOLT	STOP	
CW	CUT WASHER	MBM		STOR	
	DEFORMED BAR ANCHOR		MANUEACTURER	STEE	STRIDARD
DBI		MC		OTI	
DCW	DEMAND CRITICAL WELD	MECH	MECHANICAL	STE	STELL
DF	DOUGLAS FIR	ME77	MEZZANINE	SINU	
DIA or Ø	DIAMETER	ME		SVV	
DIAG	DIAGONAL	MER	MANUEACTURER		
DIM	DIMENSION	MIN			
DIST	DISTANCE	MISC	MISCELLANEOUS		
D.J		MIW	MALLEABLE IRON WASHER		
DL	DEAD LOAD	MTI	METAI	THRU	THROUGH
	DOWN	MU	MECHUNIT		
DO	DITTO	(N)	NFW	TN	TOF NAIL
DŴG	DRAWING	N/A	NOT APPLICABLE	TOC	
DWL	DOWEL	NO or #	NUMBER	TOF	TOP OF FRAMING
EA	EACH	NS NS	NEAR SIDE	TOM	
EE	EACH END	NSG	NON-SHRINK GROUT	TOP	
EF	EACH FACE	NTS	NOT TO SCALE	TOS	TOP OF STEEL
ELEC	ELECTRICAL	NWC	NORMAL-WEIGHT CONCRETE	TOT	TOTAL
ELEV	ELEVATOR/ELEVATION	0/	OVER	TU	
EMBED	EMBEDMENT	00	ON CENTER	TYP	TYPICAL
EQ	EQUAL	OD			
EQUIP	EQUIPMENT	OH	OPPOSITE HAND	VERT	VERTICAL
ES	EACH SIDE	OPNG	OPENING	VIE	
EŴ	EACH WAY	OPP	OPPOSITE	VSH	
(E)	EXISTING	ovs	OVERSIZED	Ŵ	WIDE ELANGE STEEL REAM
ĚΧΡ	EXPANSION	OW.	OTHERWISE	Ŵ/	WITH
FXT	EXTERIOR	OWT		WIO	WITHOUT
FDN	FOUNDATION	P		WD	WOOD
FIN	FINISH			WILS	
FG	FINISH GRADE			WID	WELDED HEADED STUD
FLR	FLOOR	1.141		WP	
FN	FACE NAII	DEN	FASTENERS		
FOC	FACE OF CONCRETE	PEN	PANEL EDGE NAIL	W/T	
FOM	FACE OF MASONRY	PERP	PERPENDICULAR	WTS	
FOS	FACE OF STUD	PES	PANEL EDGE SCREWS		
FRMG	FRAMING	PJP	PARTIAL JOINT PENETRATION	VVVK	
		DIE	POLINDS PER LINEAR FOOT		REINFURGEMENT

### CONCRETE CONSTRUCTION

1. CONCRETE SHALL MEET THE FOLLOWING REQUIR

LOCATION	MIN 28-DAY STRENGTH (PSI)	AGGREGATE SIZE
STRUCTURAL		
INTERIOR SLAB ON GROUND <sup>3</sup>	3,000	1"x#4
FOUNDATIONS (INCLUDING (D STEM WALLS)	3,000 ESIGNED FOR 2,50	1"x#4 00)
WALLS, RETAININ WALLS	G 4,000	1"x#4
ALL CONCRETE A <sup>.</sup> MECHANICAL BLD	T 5,000 G	1"x#4
<u>NON-STRUCTURA</u> LEAN CONC FOR FTG BACKFILL	<u>L</u>	-
EXTERIOR SLAB C	ON 2,500	1"x#4

AND PATIOS) 2. CONCRETE MIX DESIGN AND TESTING SHALL MEET THE REQUIREMENTS OF CBC SECTIONS 1705 AND 1903, ACI CODE-318, ACI SPEC-301, AND THESE SPECIFICATIONS. SUBMIT MIX DESIGN AND SUPPORTING DOCUMENTATION IN ACCORDANCE WITH ACI

CEMENT:	ASTM C150 TYPE II
AGGREGATE:	ASTM C33
FLY ASH:	ASTM C618 CLASS
SLAG CEMENT:	ASTM C989 GRADE
WATER:	ASTM C1602
ADMIXTURES:	ASTM C494, C260

- 3. CONCRETE MIX DESIGN FOR INTERIOR SLABS ON GROUND TO HAVE 25% TO 35% FLY ASH OR 30% TO 45% SLAG CEMENT SUBSTITUTED FOR CEMENT AT A POUND-FOR-POUND RATE. REPLACE 200 POUNDS OF SAND WITH 200 POUNDS 3/4"(-) AGGREGATE TO REDUCE TOTAL SAND.
- 4. FLY ASH MAY BE SUBSTITUTED UP TO 25% FOR CEMENT AT A POUND-FOR-POUND RATE, UNLESS SPECIFIED OTHERWISE. DO NOT USE FLY ASH IN HIGH EARLY STRENGTH CONCRETE. SLAG CEMENT MAY BE SUBSTITUTED UP TO 45% FOR CEMENT AT A POUND-FOR-POUND RATE, UNLESS SPECIFIED OTHERWISE. DO NOT USE SLAG CEMENT IN HIGH EARLY STRENGTH CONCRETE.
- 5. UNDER SLAB VAPOR RETARDER TO BE ASTM E1745 CLASS A; 15 MILS MINIMUM THICKNESS; 0.01 U.S. PERMS MAXIMUM PERMEANCE. INSTALL PER ASTM E1643 AND MANUFACTURER'S RECOMMENDATIONS. PROVIDE "STEGO WRAP VAPOR BARRIER (15MIL)" OR APPROVED EQUIVALENT. RETARDER SHALL EXTEND TO FOOTINGS BUT NOT TO BOTTOM OF FOOTING OR INTO A COLD JOINT.
- 6. REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60 OR A706 GRADE 60. STEEL SHALL BE KEPT CLEAN AND FREE OF RUST. SECURELY TIE REBAR IN PLACE PRIOR TO CONCRETE PLACEMENT. SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO INSTALLATION. WELDED REINFORCING STEEL SHALL BE ASTM A706 OR A615 MEETING CARBON REQUIREMENTS OF AWS D1.4. WELDING SHALL CONFORM WITH AWS D1.4. WELDED WIRE REINFORCEMENT SHALL CONFORM WITH ASTM A1064 AND SHALL BE LAPPED 12" MINIMUM.
- 7. CONCRETE SHALL BE KEPT CONTINUOUSLY WET FOR 48 HOURS, AFTER PLACEMENT AND SHALL BE KEPT DAMP FOR 7 DAYS AFTER PLACEMENT. IN LIEU OF PONDING, SLABS EITHER MAY HAVE CURE/SEALER APPLIED IMMEDIATELY AFTER FINISHING (IF OTHER FINISHES ARE NOT AFFECTED) OR COVERED WITH CURING PAPER, FILM OR BURLAP. CURE SHALL BE OF A TYPE THAT WILL NOT BE DETRIMENTAL TO SEALERS TO BE APPLIED LATER.
- 8. MECHANICAL COUPLERS FOR REINFORCING STEEL TO BE "L-SERIES BAR LOCK" BY DAYTON SUPERIOR (ESR-2495) OR EQUAL COUPLER WITH ICC REPORT, UNO.

### STRUCTURAL STEEL

- 1. STEEL GRADES: C SHAPES, L SHAPES & PLATES..
- 2. WORKMANSHIP AND DETAILS SHALL CONFORM TO THE AISC SPECIFICATIONS AND THE CBC UNLESS NOTED OTHERWISE.
- 3. BOLT HOLES SHALL BE 1/16" LARGER IN DIAMETER THAN THE BOLT. ANCHOR BOLT HOLES SHALL BE 1/8" LARGER IN DIAMETER THAN THE ANCHOR BOLT.
- 4. WELDING ELECTRODES SHALL MEET AWS REQUIREMENTS AND ELECTRODES SHALL BE E70XX FOR SHIELDED METAL ARC, F7XX-EXXX FOR SUBMERGED ARC (SHOP WELDS ONLY), ER70S-X FOR GAS METAL ARC AND E7XT-XX FOR FLUX CORE (UNLESS NOTED OTHERWISE). E60 OR E70 ELECTRODES MAY BE USED AT METAL DECK AND LIGHT GAUGE METAL.
- 5. ALL STRUCTURAL WELDS SHALL BE INSPECTED AND CERTIFIED BY A QUALIFIED TESTING AGENCY. CERTIFICATION SHALL BE SUBMITTED TO THE ARCHITECT AND THE BUILDING DEPARTMENT.
- 6. SEE ARCHITECTURAL DRAWINGS FOR FINISHES ON STEEL FRAMING. STEEL FRAMING WITH EXTERIOR EXPOSURE SHALL BE HOT-DIP GALVANIZED PER ASTM A123 CLASS 55 MINIMUM OR OTHERWISE FINISHED WITH A HIGH-PERFORMANCE (E.G. EPOXY OR URETHANE) EXTERIOR COATING SYSTEM (PRIMER AND TOP COAT) APPROVED BY THE ARCHITECT AND ENGINEER. PROVIDE VENT HOLES PER ASTM A385 AT CLOSED SECTIONS (SUCH AS HSS). SUBMIT PROPOSED LOCATION OF VENT HOLES FOR REVIEW BY ENGINEER. ALL CONNECTION HARDWARE AT EXTERIOR EXPOSURE FRAMING SHALL BE HOT-DIP GALVANIZED PER ASTM A153 OR F2329. ASTM F3125 GRADE A325 HIGH-STRENGTH BOLT ASSEMBLIES MAY BE MECHANICALLY GALVANIZED PER ASTM B695 CLASS 55 OR HOT-DIP GALVANIZED PER ASTM F2329. MATING BOLTS AND NUTS SHALL RECEIVE THE SAME ZINC-COATING PROCESS. REPAIR ALL UNCOATED, DAMAGED, OR ALTERED GALVANIZED SURFACES PER ASTM A780.
- 7. WELD PROCEDURE SPECIFICATIONS (WPS) AND WELDING PRODUCT DATA SHALL BE SUBMITTED FOR REVIEW BY THE ENGINEER AND TESTING AGENCY.
- 8. COMPLY WITH SECTION 10 OF AISC 303 FOR ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS). SEE ARCHITECTURAL & STRUCTURAL DRAWINGS FOR LOCATIONS OF AESS.

EMENTS:	
MAX WATER TO CEMENTITIOUS MATERIALS RATIO	MIN SACKS CEMENTITIOUS MATERIAL PER CUBIC YARD <sup>4</sup>
0.45	6.1
0.52	5.0
0.53	5.0
0.40	<u> </u>
0.46	6.0
0.40	6.0
-	3.0
0.55	4 5
0.00	т.0

SPEC-301 AND ACI CODE-318 FOR REVIEW PRIOR TO PLACEMENT.

E 100 OR 120

ASTM A36, A572 GRADE 50 OR A529 GRADE 50 UNO

# FOUNDATION NOTES

ALLOWABLE (ASD) FOUNDATION DESIGN PRESSURES ARE:

SHALLOW FOOTINGS: DEAD LOAD + LIVE LOAD = 1,500 PSF DEAD LOAD + LIVE LOAD + LATERAL = 2,000 PSF

2. ALL SOILS WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS AND THE REQUIREMENTS OF THE GEOTECHNICAL REPORT NOTED BELOW, AND CHAPTER 18 OF THE CBC. ALL FOUNDATIONS SHALL BEAR ON FIRM, UNDISTURBED, NATIVE SOILS OR ENGINEERED FILL AT OR EXCEEDING DEPTHS SHOWN ON THE DRAWINGS. ENGINEERED FILL TO BE COMPACTED PER GEOTECHNICAL REPORT. INCREASE FILL AND OR FOOTING DEPTH AS REQUIRED BY GEOTECHNICAL ENGINEER. ALL FOOTING EXCAVATIONS SHALL BE AS NEAT AS PRACTICABLE. MAXIMUM OVER EXCAVATION IN WIDTH SHALL BE LESS THAN 12 INCHES OR 25% OF FOOTING WIDTH, WHICH EVER IS LESS. 6 INCHES MAXIMUM PER SIDE. LARGER OVER-EXCAVATIONS IN WIDTH SHALL BE FILLED WITH ADDITIONAL REINFORCED CONCRETE AS DIRECTED BY THE ENGINEER, OR FORMWORK SHALL BE PROVIDED. OVER-EXCAVATIONS IN DEPTH MAY BE FILLED WITH LEAN CONCRETE OR COMPACTED APPROVED BACKFILL. ALL LOOSE SOILS SHALL BE REMOVED FROM EXCAVATIONS PRIOR TO PLACEMENT OF REINFORCING OR CONCRETE. GEOTECHNICAL REPORT BY:

ENGEO INCORPORATED REPORT NO. 18584.000.001 DATED: JUNE 1, 2021

- 3. WHERE BOTTOM OF ADJACENT FOOTINGS ARE DIFFERENT PROVIDE STEPPED FOOTING PER 3/S1.1
- 4. ANCHOR BOLTS ARE TO BE TIED IN PLACE PRIOR TO PLACEMENT OF CONCRETE. MINIMUM TWO ANCHOR BOLTS PER PIECE.
- 5. TYPICAL SLAB: 5" CONCRETE REINFORCED WITH #4 @ 16"oc EACH WAY AT MID-DEPTH OVER VAPOR RETARDER (PER SPECIFICATIONS) AND 4" MINIMUM FREE DRAINING COMPACTED CRUSHED ROCK ON SUBGRADE PER THE GEOTECHNICAL RECOMMENDATIONS, AND AS APPROVED BY THE GEOTECHNICAL ENGINEER. DO NOT DRIVE CONCRETE TRUCKS OR LARGE SCREED MACHINES ON VAPOR RETARDER WITHOUT ADDITIONAL BUFFER MATERIAL AND APPROVAL FROM THE STRUCTURAL ENGINEER.
- 6. TYPICAL MAT SLAB: MAT SLAB FOUNDATION PER PLAN OVER VAPOR RETARDER (PER SPECIFICATIONS) AND 4" MINIMUM FREE DRAINING COMPACTED CRUSHED ROCK ON SUBGRADE PER THE GEOTECHNICAL RECOMMENDATIONS, AND AS APPROVED BY THE GEOTECHNICAL ENGINEER. DO NOT DRIVE CONCRETE TRUCKS OR LARGE SCREED MACHINES ON VAPOR RETARDER WITHOUT ADDITIONAL BUFFER MATERIAL AND APPROVAL FROM THE STRUCTURAL ENGINEER.
- 7. REFER TO ARCHITECTURAL AND PLUMBING DRAWINGS FOR DEPRESSED SLABS FOR ARCHITECTURAL FLOORING OR INSERTS, SLOPED SLABS TO DRAIN AND PIPES OR CONDUITS AT SLAB. SEE 6/S1.1 FOR PIPES AND CONDUITS.
- 8. PROVIDE CONTROL JOINTS PER 5/S1.1 (OR CONSTRUCTION/DOWEL JOINTS AT CONTRACTOR'S OPTION) AS SHOWN ON PLAN AND AS REQUIRED TO MEET A MAXIMUM SPACING IN FEET OF 3 TIMES THE SLAB DEPTH IN INCHES (FOR EXAMPLE 3x4" = 12'-0"oc MAX) AND 15'-0"oc MAX. INSTALL JOINTS TO DIVIDE SLAB INTO RECTANGULAR AREAS WITH LONG DIMENSION LESS THAN 1.5 x SHORT DIMENSION. INSTALL JOINTS AT FACE OF STUDS OF WALL WHERE POSSIBLE. SUBMIT JOINT LAYOUT PLAN FOR REVIEW PRIOR TO PLACEMENT.
- 9. DO NOT UNDERCUT EXISTING FOUNDATIONS. NOTIFY ENGINEER FOR REVIEW AND POSSIBLE REVISIONS, IF EXISTING FOUNDATION CONDITIONS ARE NOT AS SHOWN.
- 10. TOP OF FOOTING ELEVATIONS TO BE DETERMINED BY THE CONTRACTOR BASED ON INFORMATION FROM THE CIVIL DRAWINGS, GEOTECHNICAL REPORT, LANDSCAPE, ETC.

### SPECIAL INSPECTION BY OWNERS TESTING AGENCY D

SPECIAL INSPECTIONS AND TESTING SHALL BE PERFORMED BY AN APPROVED AGENCY IN ACCORDANCE WITH CBC CHAPTER 17 AND THE STATEMENT OF SPECIAL INSPECTIONS AS REQUIRED BY CBC SECTIONS 1704.2.3 AND 1704.3 FOR BUILDING STRUCTURAL ELEMENTS SUMMARIZED AS FOLLOWS:

- 1. CONCRETE CONSTRUCTION PER CBC SECTIONS 1705.3, AND TABLE 1705.3 INCLUDING FORMWORK. REINFORCING STEEL, CAST-IN-PLACE BOLTS, MIX DESIGNS, CONCRETE SAMPLES, AND PLACEMENT FOR ALL CONCRETE. REINFORCING DOWELS FROM FOOTINGS TO RETAINING WALLS SHALL BE INSPECTED PRIOR TO PLACEMENT OF FOOTING CONCRETE AND WALL GROUT OR CONCRETE. CONTINUOUS OR ISOLATED SPREAD FOOTINGS WITH DESIGN STRENGTH NO GREATER THAN 2500 PSI, NON-STRUCTURAL SLABS ON GRADE, AND EXTERIOR FLATWORK DO NOT REQUIRE SPECIAL **INSPECTION PER CBC SECTION 1705.3.**
- SOILS PER CBC SECTION 1705.6, TABLE 1705.6, AND THE APPROVED SOILS REPORT INCLUDING SUBGRADE PREPARATION, FOUNDATION BEARING MATERIALS AND DEPTH OF EXCAVATIONS, AND VERIFICATION. PLACEMENT AND TESTING OF CONTROLLED FILL.
- 3. SPECIAL CASES PER CBC SECTION 1705.1.1 AND PRODUCT ICC REPORTS FOR ALL STRUCTURAL MATERIALS AND SYSTEMS REQUIRED TO BE INSTALLED IN ACCORDANCE WITH ADDITIONAL MANUFACTURER'S INSTRUCTIONS THAT PRESCRIBE REQUIREMENTS NOT CONTAINED IN THE CBC OR REFERENCED STANDARDS INCLUDING POST-INSTALLED ANCHOR BOLTS IN CONCRETE AND CMU.

# WOOD FRAMING NOTES

- ALL BEAMS SHALL BE SEAT CUT FOR FULL UNIFORM BEARING AT SUPPORTS, INCLUDING BEAM SEATS AND COLUMN CAPS.
- 2. 31/2" AND 51/2" WIDTHS MAY BE SUBSTITUTED FOR 31/4" & 51/4" WIDTHS, RESPECTIVELY, AT INDUSTRIAL APPEARANCE GRADE GLULAM MEMBERS UNO.
- 3. SEE <u>10/S4.2</u> FOR SHEATHING NAILING REQUIREMENTS. ALL NAILING NOT NOTED OR DETAILED OTHERWISE SHALL BE PER 9/S4.2 . NAIL LENGTH TO BE SUFFICIENT TO MEET CBC PENETRATION REQUIREMENTS. NAILS INTO PRESSURE TREATED MATERIAL SHALL BE HOT DIP GALVANIZED. NAILS AT BORATE TREATED LUMBER MAY BE CLEAR ZINC COATED. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AT EXTERIOR EXPOSURES.
- 4. FOR ROOF DRAINAGE, TOP OF FRAMING BETWEEN NOTED POINTS IS A STRAIGHT LINE.
- 5. ALL MECHANICAL SUPPLY AND RETURN OPENINGS TO BE BETWEEN FRAMING UNO.
- 6. RAFTERS ARE PER PLAN. UNLESS NOTED OTHERWISE, PROVIDE "LU" HANGER AT FLUSH FRAMING AND "HU" HANGER WHERE HANGER IS SHOWN SKEWED PER PLAN AND/OR HANGER SEAT IS INDICATED TO BE SLOPED. HANGER SIZE TO BE CORRECT FULL SIZE FOR RAFTER SIZE (I.E. LU210 FOR 2x10). FILL ALL NAIL HOLES.
- 7. THE CONTRACTOR SHALL VERIFY THAT THE MOISTURE CONTENT OF ALL FRAMING LUMBER AND SHEATHING MEET THE REQUIREMENTS OF THE SPECIFICATIONS AT THE TIME OF INSTALLATION AND AT CLOSE-IN. THE CONTRACTOR SHALL PROVIDE ALLOWANCE FOR DIFFERENTIAL SHRINKAGE BETWEEN FLOORS, ETC.
- 8. VENTING IS REQUIRED IN ENCLOSED FRAMING AREAS, SAD. DRILL BLOCKING AND LEDGERS AND PROVIDE SKIP BLOCKING AS DETAILED.
- 9. ALL SHEATHING SHALL HAVE 1/8" GAP AT ALL EDGES AND JOINTS. TYPICAL SHEATHING:
- A. FLAT ROOF SHEATHING (SLOPE 2:12 OR LESS): 1%2" T&G APA RATED SHEATHING (40/20) EXP 1 WITH 10d @ 6"oc EDGES (PEN) AND 12"oc FIELD UNO ON PLANS. LAY PERPENDICULAR TO FRAMING MEMBERS. BLOCK EDGES WITH 2x4 LAID FLAT WHERE NOTED ON THE PLANS AND DETAILS. NO PANELS LESS THAN 24" WIDE SHALL BE USED. STAGGER SHEETS.

# **DESIGN CRITERIA**

DESIGN CRITERIA: FLOOR LIVE LOAD: ROOF LIVE LOAD: **RISK CATEGORY:** <u>WIND DATA:</u>

2019 CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2 (CBC) 125 PSF (REDUCIBLE) 20 PSF (REDUCIBLE)

ULTIMATE WIND SPEED (3 SEC GUST) IN MPH: 110 WIND EXPOSURE: C INTERNAL WIND PRESSURE COEFFICIENT (GCPI) = ±0.18 COMPONENTS AND CLADDING DESIGN PRESSURES FOR SYSTEMS DESIGNED BY OTHERS SHALL COMPLY WITH THE "ASCE 7-16" DESIGN STANDARD EARTHQUAKE DATA: SEISMIC IMPORTANCE FACTOR, I .: 1.0

В

MAPPED SPECTRAL RESPONSE ACCELERATIONS: S<sub>S</sub> = 1.89; S<sub>4</sub> = 0.72 SITE CLASS: D SPECTRAL RESPONSE COEFFICIENTS:  $S_{DS} = 1.51$ ;  $S_{D1} = 0.816$ 

SEISMIC DESIGN CATEGORY: D SEISMIC FORCE RESISTING SYSTEM(S): SPECIAL REINFORCED CONCRETE SHEAR WALLS RESPONSE MODIFICATION FACTOR(S): R = 5.0

DESIGN BASE SHEAR: 11.4k (ULT)

SEISMIC RESPONSE COEFFICIENT(S), C<sub>s</sub> = 0.302 (ULTIMATE) ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE

GENERAL NOTES

1. REFER TO SHEETS <u>S1.1</u>, AND <u>S1.2</u> FOR STANDARD DETAILS OF CONSTRUCTION. REFER TO THE PROJECT SPECIFICATIONS FOR MATERIALS AND METHODS.

2. BUILDING DIMENSIONS SHOWN ARE FOR GENERAL REFERENCE ONLY. SEE ARCHITECTURAL DRAWINGS (SAD) FOR ALL ACTUAL BUILDING DIMENSIONS. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER SO CLARIFICATION CAN BE MADE PRIOR TO COMMENCING WORK.

3. STRUCTURAL DRAWINGS SHALL NOT BE SCALED. ALL DIMENSIONS AND FIT SHALL BE DETERMINED AND VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCING WORK

4. DETAILS NOT FULLY OR SPECIFICALLY SHOWN SHALL BE OF SAME NATURE AS OTHER SIMILAR CONDITIONS.

5. REFER TO ARCHITECTURAL DRAWINGS FOR SIDEWALK SLABS AND DIMENSIONS.

6. COORDINATION OF MECHANICAL, ELECTRICAL, PLUMBING, AND SITE UTILITY SYSTEMS WITH THE STRUCTURAL SYSTEM IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. USE DETAILS ON SHEETS S1.1 THROUGH S1.2. AT CONDITIONS WHERE THESE DETAILS DO NOT APPEAR TO APPLY, NOTIFY THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION. AT CONDITIONS WHERE FIELD MODIFICATIONS OF MECHANICAL, ELECTRICAL, PLUMBING, OR SITE UTILITIES AFFECT STRUCTURAL SYSTEMS, NOTIFY STRUCTURAL ENGINEER PRIOR TO INSTALLATION.

7. VERIFY WEIGHTS AND LOCATIONS OF MECHANICAL UNITS WITH MECHANICAL ENGINEER PRIOR TO PLACEMENT. UNITS VARYING OVER 10% IN WEIGHT SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION (MECHANICAL WEIGHTS SHOWN ARE MAXIMUM). CONTRACTOR TO VERIFY MECHANICAL UNIT SIZES AND WEIGHTS AS INSTALLED PRIOR TO INSTALLATION OF SPECIAL FRAMING TO ENSURE CORRECT PLACEMENT UNDER CURBS, ETC.

8. SHORING AND BRACING DESIGN, MATERIALS AND INSTALLATION SHALL BE PROVIDED BY THE GENERAL CONTRACTOR, AND SHALL BE ADEQUATE FOR ALL LOADS. LEAVE IN PLACE AS LONG AS MAY BE REQUIRED FOR SAFETY AND UNTIL FINAL STRUCTURAL CONSTRUCTION IS COMPLETED.

9. SPECIAL INSPECTIONS ARE REQUIRED PER <u>D/S0.1</u>AND THE TESTING AND INSPECTION FORM.

10. VEHICULAR TRAFFIC, HEAVY EQUIPMENT AND MATERIAL STAGING SHALL NOT BE ALLOWED ADJACENT TO ANY RETAINING/BASEMENT WALL. NEW OR EXISTING WITHIN A HORIZONTAL DISTANCE EQUAL TO THE WALL HEIGHT MEASURED FROM THE BOTTOM OF FOOTING OR 5'-0" WHICHEVER IS GREATER, UNLESS APPROVED BY THE STRUCTURAL ENGINEER OR NOTED OTHERWISE. WITHIN THIS ZONE, ONLY HAND-OPERATED EQUIPMENT ("WHACKERS". VIBRATORY PLATES, OR PNEUMATIC COMPACTORS) SHALL BE USED TO COMPACT THE BACKFILL SOILS.

11. STRUCTURAL OBSERVATION PER CBC SECTION 1704.6 IS NOT REQUIRED. NOTIFY ZFA FOR GENERAL ON SITE REVIEW OF:

- MINIMUM FOOTING SIZE AND REINFORCING STEEL.
- RETAINING WALLS AND REINFORCING.
- CONCRETE SHEAR WALLS AND REINFORCING.
- ROOF DIAPHRAGMS, INCLUDING NAILING, BOLTING, ANCHORAGE AND OTHER FASTENING TO OTHER COMPONENTS OF THE SEISMIC FORCE RESISTING SYSTEM.

NOTIFY ZFA FOR REVIEW PRIOR TO COVERING ABOVE LISTED WORK. PROVIDE 2 WORKING DAYS MINIMUM SCHEDULING NOTICE PRIOR TO REVIEW DATE.

12. SUBMIT ENGINEERING FOR DEFERRED APPROVAL ITEMS TO ARCHITECT/ENGINEER FOR REVIEW AND SUBMITTAL TO THE BUILDING DEPARTMENT FOR APPROVAL PRIOR TO FABRICATION. DEFERRED APPROVAL ITEMS SHALL BE DESIGNED AND DETAILED BY MANUFACTURER TO ACCOMMODATE HORIZONTAL AND VERTICAL MOVEMENTS AS NOTED IN STRUCTURAL DRAWINGS. GENERAL CONTRACTOR SHALL REVIEW AND APPROVE DIMENSIONS AND DETAILS SHOWN ON THE SHOP DRAWINGS PRIOR TO SUBMITTAL. MANUFACTURER TO PROVIDE DRAWINGS AND CALCULATIONS DESIGNED IN ACCORDANCE WITH THE CBC AND SPECIFICATIONS, PREPARED AND SIGNED BY A CALIFORNIA LICENSED CIVIL OR STRUCTURAL ENGINEER FOR THE FOLLOWING ITEMS, UNLESS NOTED OTHERWISE:

A. SHADE STRUCTURE

	SHEET INDEX
S0.1	GENERAL NOTES & SPECIFICATIONS
S1.1	TYPICAL CONCRETE DETAILS
S1.2	SITE DETAILS
S2.1	MECHANICAL BLDG
S4.1	FOUNDATION DETAILS
S4.2	DETAILS

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							REVISION
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FINLEY AQUATIC CENTER SPRAY GROUND AND RENOVATION PROJECT				S0.1 - GENERAL NOTES & SPECIFICATIONS			
	C	ON C	TR, 02 <b>3</b>	ACT 233 4 0	N 6 DF	5. 68	

	SCRE	EW ANCHO	or in 2500	) PSI MI	N CONCR	ETE	
ANCHOR TYPE	ANCHOR AND PILOT HOLE DIA	MINIMUM EMBEDMEN Huom	MINIMUM EDGE DIST Cmin		MINIMUM CONCRETE THICKNESS H <sub>min</sub>	MINIMUM INSTALL TORQUE (FT-LB)	MAXIMUN INSTALL TORQUE (FT-LB)
	1⁄4"	15%"	11/2"	11/2"	31⁄4"	10	24
	3/8"	21/2"	13/4"	3"	4"	10	50
	1/2"	3¼"	1 <sup>3</sup> ⁄ <sub>4</sub> "	3"	5"	10	65
(ICC-ESR	5⁄8"	4"	1 3/4 "	3"	6"	10	100
2713)	3⁄4"	5½"	13/4"	3"	8¾"	20	150
ŀ	1⁄4"	1%"	11/2"	1½"	31⁄4"	10	18
HILTI	3/8" 1/ "	21/2"	11/2"	3"	4" 	10	40
KH-EZ IICC-ESR	72 5⁄, "	ی 21/,"	1 74	<u>з</u> л"	474 5"	10	40
3027)	78 3/, "	<u> </u>	1 74	4 	6"	20	95
I	/4	-7		<sup>3</sup> / <sub>16</sub> "(		<u> </u>	
AN		DI AN &		THA	N 12GA (1/8")	MAX 1/16 "Ø	OVS
DE	TAILS			HOL		ISE	
то	P OF CONC	;	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	H nor	HOLE	DEPTH	
ED	GE OF CON		E	₫ <u></u> ≯		MFK	
AS	OCCURS		, S <sub>min</sub>	/			
<u>IOTES:</u>		٢					
INSTALL INSTRU AND THI CONNE	SCREW AN CTIONS. SF E REQUIREN CTED PLIES	ICHORS PER IECIAL INSPE MENTS OF TH INTO FIRM C	MANUFACTO CTION IS RE IE ICC REPO CONTACT, ME	JRER'S INT QUIRED P RTS. INST ETING TH	ER SECTION ALLED ANCH E INSTALL T	AND ICC R 1705 OF TI ORS SHAL DRQUE BU	EPORT HE CBC L BRING T NOT
				STANCES,		ND THICKN	ESS ARE
IN AUUU	RDANCE V	/ SCHEDULE	PRIOR TO IN	ISTALLING	ANUTUR.		
. HOLES ANCHOR CUTTING REASON ANCHOR	TO BE DRILL RS IN EXIST G OR DAMA IABLE CLEA R. FILL ABAN	ED W/ ROTA ING REINFOF GING THE EX RANCE BET DONED HOL	RY DRILL ON CED CONCF ISTING REIN VEEN REINF ES W/ HIGH	ILY. WHEN RETE, USE FORCING ORCEMEN STRENGTI	INSTALLING CARE AND ( BARS. MAIN T AND THE [ H GROUT.	DRILLED-I CAUTION TO FAIN A DRILLED-IN	n Avoid
. THE SPE ACCORI TYPE, A TYPE, C EDGE D TORQUE	ECIAL INSPE DANCE WITH NCHOR DIM ONCRETE ( ISTANCE(S)	ECTOR SHALI TABLE 1705 ENSIONS, HO OMPRESSIV ANCHOR SE	- PERFORM F 5.3. THE SPEC DLE CLEANLI E STRENGTH	PERIODIC/ CIAL INSPE NESS, EM	CONTINUOU CTOR SHAL BEDMENT DI	S INSPECT L INSPECT PTH_CON	ION IN ANCHOR
	Ξ.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	PACING(S), C	H, DRILL BI ONCRETE	T DIAMETER THICKNESS	, HOLE DEI , AND TIGH	CRETE PTH, ITENING
) <u>SCR</u>	E. <u>=W ANCH</u> 1'-0"	<u>IOR IN CO</u>	PACING(S), C	H, DRILL BI	T DIAMETER THICKNESS	, HOLE DEI , AND TIGH	CRETE PTH, ITENING
) <u>SCR</u> 3/4" =	E. <u>EW ANC⊦</u> 1'-0"	<u>IOR IN CC</u>	PACING(S), C	H, DRILL BI		, HOLE DEI , AND TIGH	CRETE PTH, ITENING
1) <u>SCR</u> 3/4" =	E. <u>=W ANC⊦</u> 1'-0" ADHES	IVE ANCH	•ACING(S), C • <u>NCRETE</u> OR IN 250	H, DRILL BI ONCRETE		, HOLE DEI , AND TIGH	CRETE PTH, ITENING
<u>SCRI</u> 3/4" =	E. <u>=W ANCH</u> 1'-0" ADHES E ANC	IVE ANCH	PACING(S), C <u>NCRETE</u> OR IN 250 PILOT E	H, DRILL BI ONCRETE	T DIAMETER THICKNESS	, HOLE DEI , AND TIGH <b>ETE</b> MIN M	CRETE PTH, ITENING
ADHESIV	E. <u>E</u> E E E E E E E E E E E E E	IOR IN CC	PACING(S), C NCRETE OR IN 250 PILOT HOLE	H, DRILL BI ONCRETE		RETE	CRETE PTH, ITENING
ADHESIV	E ADHES ADHES ADHES ANC ANC ANC ANC ANC ANC ANC ANC	IOR IN CC	PACING(S), C <u>NCRETE</u> OR IN 250 PILOT HOLE	H, DRILL BI ONCRETE ONCRETE	T DIAMETER THICKNESS	AND TIGH	IN CONC DEPTH H <sub>min</sub>
ADHESIV	E. E ADHES ADHES E ANC THRD ROD 3% "Ø 1% "Ø	IVE ANCH	PACING(S), C <u>NCRETE</u> OR IN 250 PILOT HOLE 1/2"Ø 5%"Ø	H, DRILL BI ONCRETE	T DIAMETER THICKNESS	AND TIGH	CRETE PTH, ITENING IN CONC DEPTH $H_{min}$ $I_{ef} + 2\frac{1}{2}"$ $I_{ef} + 3\frac{1}{8}"$
ADHESIV TYPE	EW ANCH 1'-0" ADHES E ANC THRD ROD 3% "Ø 1/2 "Ø 5% "Ø	IVE ANCH	PACING(S), C <u>NCRETE</u> OR IN 250 PILOT HOLE 1/2"Ø 5%"Ø 3/4"Ø	H, DRILL BI ONCRETE ONCRETE ONCRETE ONCRETE ONCRETE ONCRETE ONCRETE ONCRETE ONCRETE ONCRETE ONCRETE ONCRETE ONCRETE	T DIAMETER THICKNESS	HOLE DEI , HOLE DEI , AND TIGH RETE MIN M SPCG Smin 3" H 3" H 3" H 3" H	CRETE PTH, ITENING INCONC DEPTH $H_{min}$ $I_{ef} + 2\frac{1}{2}$ " $I_{ef} + 3\frac{1}{6}$ " $I_{ef} + 3\frac{3}{4}$ "
ADHESIV TYPE SIMPSOI SET-XP	E ADHES ADHES E ANC THRD ROD 3/8 "Ø 1/2 "Ø 5/8 "Ø 3/4 "Ø	IOR IN CC         IVE ANCH         HOR         HOR         #3         #4         #5         #6	PACING(S), C <u>NCRETE</u> OR IN 250 PILOT HOLE 1/2"Ø 5%"Ø 3/4"Ø 7%"Ø	H, DRILL BI ONCRETE ONCRETE ONCRETE ONCRETE MIN MBED JNO Hef 3" 4" 5" 6"	T DIAMETER THICKNESS	AND TIGH	CRETE PTH, ITENING IN CONC DEPTH $H_{min}$ $\frac{1}{ef} + 2\frac{1}{2}"}$ $\frac{1}{ef} + 3\frac{3}{4}"}$ $\frac{1}{ef} + 4\frac{3}{8}"}$
SIMPSOI SET-XP (ICC-ESF 2508)	E ANCH 1'-0" ADHES E ANC THRD ROD 3% "Ø 1/2 "Ø 5% "Ø 3/4 "Ø 7% "Ø	IOR IN CC         IVE ANCH         HOR         #4         #5         #6         #7	PACING(S), C         DNCRETE         OR IN 250         PILOT         1/2"Ø         5% "Ø         3/4 "Ø         7% "Ø         1"Ø	H, DRILL BI ONCRETE	T DIAMETER THICKNESS	HOLE DEI         AND TIGH         RETE         MIN       M         SPCG         Smin         3"         4"         3"         4"         3"         3"         3"         3"         3"         3"	CRETE PTH, ITENING IN CONC DEPTH $H_{min}$ $l_{ef} + 2\frac{1}{2}"$ $l_{ef} + 3\frac{3}{4}"$ $l_{ef} + 4\frac{3}{6}"$ $H_{ef} + 4"$
SIMPSOI SET-XP (ICC-ESF 2508)	E ANC 1'-0" ADHES E ANC THRD ROD 3/8 "Ø 1/2 "Ø 5/8 "Ø 1/2 "Ø 5/8 "Ø 1/2 "Ø 5/8 "Ø 1/2 "Ø 5/8 "Ø 1/8 "Ø	IOR IN CC         IVE ANCH         HOR         HOR         #3         #4         #5         #6         #7         #8	PACING(S), C         DNCRETE         OR IN 250         PILOT         HOLE         ½"ø         5%"ø         34"ø         7%"ø         1%"ø	H, DRILL BI ONCRETE ONCRETE ONCRETE ONCRETE MIN MBED JNO DI Hef 3" 4" 5" 6" 7" 8"	T DIAMETER THICKNESS	HOLE DEI         AND TIGH         AND TIGH         XETE         MIN         SPCG         Smin         3"         4         3"         4         3"         3"         3"         3"         3"         3"         3"         3"         3"         3"         3"	CRETE PTH, ITENING IN CONC DEPTH $H_{min}$ $l_{ef} + 2\frac{1}{2}"$ $l_{ef} + 3\frac{3}{4}"$ $l_{ef} + 4\frac{3}{8}"$ $H_{ef} + 4\frac{3}{8}"$ $H_{ef} + 5\frac{5}{6}"$
ADHESIV TYPE SIMPSOI SET-XP (ICC-ESF 2508)	E ANCH 1'-0" ADHES E ANC THRD ROD 3% "Ø 1/2 "Ø 5% "Ø 3/4 "Ø 7/8 "Ø 1"Ø 11/4 "Ø	IOR IN CC         IVE ANCH         HOR         #3         #4         #5         #6         #7         #8         #10	PACING(S), C         DNCRETE         OR IN 250         PILOT         ½"Ø         ½"Ø         ¾"Ø         ¾"Ø         ¾"Ø         1%"Ø         1%"Ø         1%"Ø	H, DRILL BI ONCRETE 00 PSI M 00 PSI M MIN MBED JNO Hef 3" 4" 5" 6" 7" 8" 10"	T DIAMETER THICKNESS	HOLE DEI         AND TIGH         RETE         MIN       M         SPCG         Smin         3"         3"         3"         3"         3"         3"         3"         3"         3"         3"         3"         3"         4"         3"         4"         4"	CRETE PTH, ITENING IN CONC DEPTH $H_{min}$ $l_{ef} + 2\frac{1}{2}$ " $l_{ef} + 3\frac{3}{4}$ " $l_{ef} + 3\frac{3}{4}$ " $l_{ef} + 4\frac{3}{8}$ " $H_{ef} + 4\frac{3}{8}$ " $H_{ef} + 6\frac{7}{8}$ "
ADHESIV 3/4" = SIMPSOI SET-XP (ICC-ESF 2508)	E ANC 1'-0" ADHES ADHES ANC THRD ROD 3% "Ø 1/2 "Ø 5% "Ø 1/2 "Ø 5% "Ø 1/2 "Ø 5% "Ø 1/2 "Ø 5% "Ø 1/4 "Ø 3% "Ø N/A	IVE ANCH IVE ANCH HOR #3 #4 #5 #6 #7 #8 #10 N/A #3	PACING(S), C         DNCRETE         OR IN 250         PILOT         HOLE         ½"Ø         %"Ø         ¾"Ø         ¼"Ø         ½"Ø	H, DRILL BI ONCRETE ONCRETE ONCRETE ONCRETE MIN MBED JNO Hef 3" 4" 5" 6" 7" 8" 10" 3" 2"	T DIAMETER THICKNESS	HOLE DEI         AND TIGH         AND TIGH         XETE         MIN         SPCG         Smin         3"         4"         3"         4"         3"         4"         3"         4"         4"	CRETE PTH, ITENING INCONC DEPTH $H_{min}$ $1_{ef} + 2\frac{1}{2}"$ $1_{ef} + 3\frac{3}{4}"$ $1_{ef} + 3\frac{3}{4}"$ $1_{ef} + 4\frac{3}{8}"$ $H_{ef} + 4$ $1_{ef} + 5\frac{5}{8}"$ $1_{ef} + 6\frac{7}{8}"$
ADHESIV 3/4" = SIMPSOI SET-XP (ICC-ESF 2508)	E ANCH 1'-0" ADHES E ANC THRD ROD 3%"Ø 1/2"Ø 5%"Ø 3%"Ø 1/2"Ø 1/2"Ø 1/2"Ø N 3%"Ø 1%"Ø 1%"Ø 1%"Ø 1%"Ø 1%"Ø 1%"Ø	HOR IN CC         IVE ANCH         HOR         REBAR         #3         #4         #5         #6         #7         #8         #10         N/A	PACING(S), C DNCRETE OR IN 250 PILOT HOLE 1/2"Ø 5%"Ø 3/4"Ø 7/6"Ø 1%"Ø 1%"Ø 1%"Ø 1%"Ø 1%"Ø 1%"Ø 1%"Ø 1%"Ø 1%"Ø 1%"Ø 1%"Ø	H, DRILL BI ONCRETE 0 PSI M MIN MBED JNO Hef 3" 4" 5" 6" 7" 8" 10" 3" 3" 3" 4"	T DIAMETER THICKNESS	HOLE DEI         AND TIGH         AND TIGH         XETE         MIN         SPCG         Smin         3"         4"         3"         4"         3"         4"         3"         4"         3"         4"         1"/6"         1"/6"         214"	CRETE PTH, ITENING IN CONC DEPTH $H_{min}$ $\frac{1}{4ef} + 2\frac{1}{2}$ " $\frac{1}{4ef} + 3\frac{1}{8}$ " $\frac{1}{4ef} + 3\frac{3}{4}$ " $\frac{1}{4ef} + 4\frac{3}{8}$ " $\frac{1}{4ef} + 4\frac{3}{8}$ " $\frac{1}{4ef} + 6\frac{7}{8}$ " $\frac{1}{4ef} + 6\frac{7}{8}$ "
ADHESIV 3/4" = ADHESIV TYPE SIMPSOI SET-XP (ICC-ESF 2508)	E ANC 1'-0" ADHES ADHES ANC THRD ROD %"Ø 1/2"Ø 5%"Ø 1/2"Ø 1/4"Ø 11/4"Ø 3%"Ø N/A 1/2"Ø N/A	IOR IN CC         IVE ANCH         HOR         #3         #4         #5         #6         #7         #8         #10         N/A         #3	PACING(S), C         DNCRETE         OR IN 250         PILOT         HOLE         ½"Ø         %"Ø         ¾"Ø         ½"Ø	H, DRILL BI ONCRETE 0 PSI M MIN MBED JNO Hef 3" 4" 5" 6" 7" 8" 10" 3" 3" 3" 4" 4" 4"	T DIAMETER THICKNESS	HOLE DEI         AND TIGH         AND TIGH         SPCG         Smin         3"         3"         3"         3"         3"         3"         3"         1"6"         1%"         1%"         2½"         214"	CRETE PTH, ITENING INCONC DEPTH $H_{min}$ $1_{ef} + 21/2"$ $1_{ef} + 31/8"$ $1_{ef} + 33/4"$ $1_{ef} + 33/4"$ $1_{ef} + 43/8"$ $H_{ef} + 67/8"$ $1_{ef} + 67/8"$
ADHESIV 3/4" = ADHESIV TYPE SIMPSOI SET-XP (ICC-ESF 2508) HILTI HIT HY 200F (ICC-ESF	E ANCH 1'-0" ADHES E ANC THRD ROD 3% "Ø 1/2 "Ø 5% "Ø 1/2 "Ø 1/2 "Ø NA 1/2 "Ø N/A 5% "Ø N/A 5% "Ø	IOR IN CC         IVE ANCH         HOR         #4         #5         #6         #7         #8         #10         N/A         #3         N/A         #4	PACING(S), C DNCRETE OR IN 250 PILOT HOLE 1/2"Ø 5%"Ø 3/4"Ø 7%"Ø 1%"Ø 1%"Ø 1%"Ø 1%"Ø 1%"Ø 1%"Ø 5%"Ø 3/4"Ø 7/6"Ø 5%"Ø 3/4"Ø 7/6"Ø 5%"Ø 3/4"Ø	H, DRILL BI ONCRETE 0 PSI M MIN VBED JNO Hef 3" 4" 5" 6" 7" 8" 10" 3" 3" 4" 3" 3" 4" 4" 5"	T DIAMETER THICKNESS	HOLE DEI         AND TIGH         AND TIGH         XETE         MIN       M         SPCG         Smin         3"         4"         3"         4"         3"         4"         3"         4"         3"         4"         1"/6"         2½"         2½"         316"	CRETE PTH, ITENING IN CONC DEPTH $H_{min}$ $\frac{1}{4ef} + 2\frac{1}{2}$ " $\frac{1}{4ef} + 3\frac{3}{4}$ " $\frac{1}{4ef} + 4\frac{3}{4}$ " $\frac{1}{4ef} + 4\frac{3}{4}$ " $\frac{1}{4ef} + 6\frac{7}{4}$ " $\frac{1}{4ef} + 6\frac{7}{4}$ " $\frac{1}{4ef} + 1\frac{1}{4}$ "
ADHESIV 3/4" = ADHESIV TYPE SIMPSOI SET-XP (ICC-ESF 2508) HILTI HIT HY 200F (ICC-ESF 3187)	E ANC 1'-0" ADHES ADHES ADHES ANC THRD ROD 3% "Ø 1/2 "Ø 5% "Ø 1/2 "Ø 7% "Ø 11'4 "Ø 3% "Ø N/A 1/2 "Ø N/A 5% "Ø 3% "Ø N/A	IOR IN CC         IVE ANCH         CHOR         #4         #5         #6         #7         #8         #10         N/A         #3         N/A         #4         #5         #6         #7         #8         #10         N/A         #4         #5         #6         #7         #8         #10         N/A         #4         #5         #6	PACING(S), C DNCRETE OR IN 250 PILOT HOLE 1/2"Ø 5%"Ø 3/4"Ø 7%"Ø 1%"Ø 1%"Ø 1%"Ø 1%"Ø 1%"Ø 1%"Ø 1%"Ø 1%"Ø 5%"Ø 3/4"Ø 7/2"Ø 5%"Ø 3/4"Ø 7/4"Ø 5%"Ø 3/4"Ø 7%"Ø 5%"Ø	H, DRILL BI ONCRETE 0 PSI M MIN MBED JNO Hef 3" 4" 5" 6" 7" 8" 10" 3" 3" 4" 4" 3" 3" 4" 5" 6" 3" 6" 7" 8" 10" 3" 6" 7" 8" 10" 6" 7" 8" 10" 6" 6" 7" 6" 6" 6" 6" 6" 6" 6" 6" 6" 6" 6" 6" 6"	T DIAMETER THICKNESS	HOLE DEI         AND TIGH         AND TIGH         SPCG         Smin         3"         3"         3"         3"         3"         3"         3"         1"6"         1%"         2½"         3½"	CRETE PTH, ITENING INCONC DEPTH $H_{min}$ $\frac{1_{ef} + 2\frac{1}{2}"}{\frac{1_{ef} + 3\frac{3}{4}"}{\frac{1_{ef} + 3\frac{3}{4}"}{\frac{1_{ef} + 3\frac{3}{4}"}{\frac{1_{ef} + 5\frac{5}{8}"}{\frac{1_{ef} + 5\frac{5}{8}"}{\frac{1_{ef} + 6\frac{7}{8}"}{\frac{1_{ef} + 1\frac{1}{4}"}{\frac{1_{ef} + 1\frac{1}{4}"}{\frac{1_{ef} + 1\frac{1}{4}"}{\frac{1_{ef} + 1\frac{3}{4}"}{\frac{1_{ef} + 1\frac{3}{4}}{\frac{1_{ef} + 1\frac{3}{4}$
ADHESIV 3/4" = ADHESIV TYPE SIMPSOI SET-XP (ICC-ESF 2508) HILTI HIT HY 200F (ICC-ESF 3187)	E ANCH 1'-0" ADHES E ANC THRD ROD %"Ø 1/2"Ø %"Ø 1/2"Ø %"Ø 1/2"Ø NA 1/2"Ø N/A 1/2"Ø N/A 5%"Ø 3/4"Ø 3/4"Ø 3/4"Ø 3/4"Ø	HOR IN CC         IVE ANCH         HOR         #3         #4         #5         #6         #7         #8         #10         N/A         #3         N/A         #4         #5         #6         #7         #8         #10         N/A         #3         N/A         #4         #5         #6         #7	PACING(S), C DNCRETE OR IN 250 PILOT HOLE 1/2"Ø 5%"Ø 34"Ø 7%"Ø 1%"Ø 1%"Ø 1%"Ø 1%"Ø 1%"Ø 5%"Ø 34"Ø 7%"Ø 5%"Ø 34"Ø 7%"Ø 1"Ø	H, DRILL BI ONCRETE 0 PSI M MIN VBED JNO Hef 3" 4" 5" 6" 7" 8" 10" 3" 3" 4" 4" 5" 6" 7" 8" 10" 3" 3" 4" 4" 5" 6" 7" 8" 10" 7" 8" 10" 7" 8" 10" 7" 8" 10" 7" 8" 10" 7" 7" 8" 10" 7" 7" 7" 8" 10" 7" 7" 7" 7" 7" 7" 7" 7" 7" 7" 7" 7" 7"	T DIAMETER THICKNESS	HOLE DEI         AND TIGH         AND TIGH         XETE         MIN       M         SPCG         Smin         3"         4"         1%"         1%"         1%"         1%"         3%         1%"         3%4"	CRETE PTH, ITENING IN CONC DEPTH $H_{min}$ $\frac{1}{4ef} + 2\frac{1}{2}$ " $\frac{1}{4ef} + 3\frac{3}{4}$ " $\frac{1}{4ef} + 4\frac{3}{8}$ " $\frac{1}{4ef} + 4\frac{3}{8}$ " $\frac{1}{4ef} + 4\frac{3}{8}$ " $\frac{1}{4ef} + 6\frac{7}{8}$ " $\frac{1}{4ef} + 6\frac{7}{8}$ " $\frac{1}{4ef} + 1\frac{1}{4}$ " $\frac{1}{4ef} + 1\frac{3}{4}$ " $\frac{1}{4ef} + 1\frac{3}{4}$ "
ADHESIV 3/4" = ADHESIV TYPE SIMPSOI SET-XP (ICC-ESF 2508) HILTI HIT HY 200F (ICC-ESF 3187)	E ANC 1'-0" ADHES ADHES ANC THRD ROD 3% "Ø 1/2 "Ø 5% "Ø 1/2 "Ø 5% "Ø 1/2 "Ø N/A 1/2 "Ø N/A 1/2 "Ø N/A 5% "Ø 3/4 "Ø 7% "Ø 11% M/A 1/2 "Ø N/A 5% "Ø 3/4 "Ø 1% "	HOR IN CC         IVE ANCH         HOR         #4         #5         #6         #7         #8         #10         N/A         #3         M/A         #3         #6         #7         #8         #10         N/A         #4         #5         #6         #7         #8         #10         N/A         #4         #5         #6         #7         #8	PACING(S), C DNCRETE OR IN 250 PILOT HOLE 1/2"Ø 5%"Ø 3/4"Ø 1%"Ø 1%"Ø 1%"Ø 1%"Ø 1%"Ø 5%"Ø 3/4"Ø 5%"Ø 3/4"Ø 1%"Ø 1%"Ø 1%"Ø 1%"Ø 1%"Ø	H, DRILL BI ONCRETE 0 PSI M MIN MBED JNO Hef 3" 4" 5" 6" 7" 8" 10" 3" 3" 4" 4" 5" 6" 7" 8" 10" 3" 3" 4" 4" 5" 6" 7" 8" 10" 3" 3" 4" 4" 5" 6" 7" 8" 4" 8"	T DIAMETER THICKNESS	HOLE DEI         AND TIGH         AND TIGH         SPCG         Smin         3"         3"         3"         3"         3"         3"         3"         3"         3"         3"         4%"         5"	CRETE PTH, ITENING INCONC DEPTH $H_{min}$ $\frac{1}{1ef} + 2\frac{1}{2}$ " $\frac{1}{1ef} + 3\frac{3}{4}$ " $\frac{1}{1ef} + 3\frac{3}{4}$ " $\frac{1}{1ef} + 4\frac{3}{8}$ " $\frac{1}{1ef} + 6\frac{7}{8}$ " $\frac{1}{1ef} + 6\frac{7}{8}$ " $\frac{1}{1ef} + 1\frac{1}{4}$ " $\frac{1}{1ef} + 1\frac{3}{4}$ " $\frac{1}{1ef} + 2\frac{1}{4}$ "
ADHESIV 3/4" = ADHESIV TYPE SIMPSOI SET-XP (ICC-ESF 2508) HILTI HIT HY 200F (ICC-ESF 3187)	E ANC 1'-0" ADHES E ANC THRD ROD %"Ø 1/2"Ø %"Ø 1/2"Ø %"Ø 1/2"Ø NA 1/2"Ø N/A 1/2"Ø N/A 5%"Ø 3/4"Ø 7%"Ø 11'Ø N/A 5%"Ø 3/4"Ø 7%"Ø N/A	HOR IN CC         IVE ANCH         HOR         #3         #4         #5         #6         #7         #8         #10         N/A         #3         N/A         #4         #5         #6         #7         #8         #10         N/A         #3         N/A         #4         #5         #6         #7         #8         #9	PACING(S), C DNCRETE OR IN 250 PILOT HOLE 1/2"Ø 5%"Ø 34"Ø 7%"Ø 1%"Ø 1%"Ø 1%"Ø 5%"Ø 34"Ø 7%"Ø 1%"Ø 1%"Ø 1%"Ø 1%"Ø 1%"Ø 1%"Ø 1%"Ø 1%"Ø 1%"Ø 1%"Ø 1%"Ø	H, DRILL BI ONCRETE 0 PSI M MIN MBED JNO Hef 3" 4" 5" 6" 7" 8" 10" 3" 3" 4" 4" 5" 6" 7" 8" 10" 3" 3" 4" 5" 6" 7" 8" 10" 3" 3" 4" 5" 6" 7" 8" 9"	T DIAMETER THICKNESS	HOLE DEI         AND TIGH         RETE         MIN         SPCG         Smin         3"         4"         1%"         1%"         2½"         3¼"         43%"         5"	CRETE PTH, ITENING INCONC DEPTH $H_{min}$ $\frac{1}{4ef} + 2\frac{1}{2}$ " $\frac{1}{4ef} + 3\frac{3}{4}$ " $\frac{1}{4ef} + 4\frac{3}{8}$ " $\frac{1}{4ef} + 4\frac{3}{8}$ " $\frac{1}{4ef} + 6\frac{7}{8}$ " $\frac{1}{4ef} + 6\frac{7}{8}$ " $\frac{1}{4ef} + 1\frac{1}{4}$ " $\frac{1}{4ef} + 1\frac{3}{4}$ " $\frac{1}{4ef} + 2\frac{1}{4}$ "

![](_page_34_Figure_1.jpeg)

NOTES:

- 1. INSTALL ADHESIVE ANCHORS PER MANUFACTURER'S INFORMATION AND ICC REPORT
- 2. CONTRACTOR TO VERIFY MINIMUM EDGE DISTANCES, SPACING, AND THICKNESS ARE IN ACCORDANCE W/ SCHEDULE PRIOR TO INSTALLING ANCHOR.

AS OCCURS

- HOLES TO BE DRILLED W/ ROTARY DRILL ONLY. WHEN DRILLING HOLES IN EXISTING CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN A REASONABLE CLEARANCE BETWEEN REINFORCEMENT AND THE DRILLED-IN ANCHOR. FILL ABANDONED HOLES W/ HIGH STRENGTH GROUT.
- SPECIAL INSPECTION IS REQUIRED PER SECTION 1705 AND THE REQUIREMENTS OF 4. THE ICC REPORTS. THE SPECIAL INSPECTOR SHALL PERFORM PERIODIC/CONTINUOUS INSPECTION IN ACCORDANCE WITH TABLE 1705.3. THE SPECIAL INSPECTOR SHALL INSPECT ANCHOR TYPE, ANCHOR DIMENSIONS, HOLE CLEANLINESS, EMBEDMENT DEPTH, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, DRILL BIT DIAMETER, HOLE DEPTH, EDGE DISTANCE(S), ANCHOR SPACING(S), CONCRETE THICKNESS, AND ADHESIVE INJECTION

ADHESIVE ANCHOR IN CONCRETE 3/4" = 1'-0"

![](_page_34_Figure_8.jpeg)

SIZE LAP L	TRENGTH: 250	PSI OR GREATER	R (STAGG	EL ER SPLICES)		
	ENGTH SIZE	LAP LENGTH	SIZE	LAP LENGTH		
#3 1	9" #6	38"	#9	94"		
#4 2	25" #7	61"	#10	115"		
#5 37	7" <del>X</del> #8	77"	#11	138"		
SPCG SHAL HERE COVE	L NOT BE LESS R NOT LESS TH R FOR REIN	THAN 4x BAR DIA ( AN 1½", #5 LAP LE <b>F STL</b>	OR 4". NGTH = 3	31" 		
OSED TO EA	RTH (FORMED)	OR WEATHER		41/"		
#6 & LARC						
#5 & SMAI #6 & LARC	LLER ALL BM S	TIRRUPS, COL TIE	S & SPIR			
L REINF SHALI RS SHALL BE	L EXTEND AS FA	AR AS POSSIBLE. V CHEDULE ABOVE L	VHERE B	AR SPLICES ARE REQU DETAILED OTHERWISE.	RED,	
HERE REINF TE D° HK UNLESS	ERMINATES AT DETAILED OTH	END OF MEMBER, ERWISE.	REINF SH	HALL END IN A STD 90° ( $\pi \longrightarrow$	R	
<u>180° HOOK</u>	<u>&lt;</u>	db (1		Sdb		
R=3 dt	o FOR #3 TO #8	<b>→</b>				
R=4 dt	o FOR #9 TO #1 <sup>2</sup>		*	<u>90° HOOK</u>		
4	db OR 2 1/2" MI	N				
STANDA	RD HOOKS &	BENDS				
	6	× ť	LAP			
		^	WIRE -	TOGETHER AT EA END		
<u>)L BAR &amp; S</u>	TRUCT OFF	<u>SET</u> <u>SPLIC</u>	<u>E</u>		_ /	
och				XQ _ \	(	<b>3</b> 1/2" = 1'-0"
	MIN			S NIT C		
	db		lb	6db 3" MIN		
R = 2db		R = 2db				
135° STIF <u>TIES #3,</u>	KKUP #4, #5_	STIRRUP <u>#3, #4, #5</u>	_	CROSSTIE <u>#3, #4, #5</u>		
	REINEOPOL	NG DETAILS (F	'n = 250	Onsi MINI		JOINT LOCATIONS PER PLANS OR AT LOCATIONS SPECIFICALLY
) 3/4" = 1'-0"			<u> </u>			
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						FACE OF WALL AS OCCURS LAP CONDITION SIM AT 2- LAYER REINF HALF OF 1ST POUR REINF CONTROL JOINTS ARE TO BE FORMED PRIOR TO CONC PLACEMENT TYP CUT 50% OF HORIZ REINF AT TOP OF WALL CUT 50% OF HORIZ CUT 50% OF HORIZ REINF AT TOP OF WALL CUT 50% OF HORIZ CUT 50% OF HORIZ CUT 50% OF HORIZ CUT 50% OF HORIZ REINF AT TOP OF WALL CUT 50% OF HORIZ CUT 50% OF HO

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![](_page_35_Figure_3.jpeg)

![](_page_36_Figure_0.jpeg)

![](_page_36_Figure_3.jpeg)

# LOWER LEVEL

# FOUNDATION PLAN NOTES: ARCHITECT/ENGINEER OF ANY DISCREPANCIES. CONFORMING TO THESE DETAILS. SYMBOL \_ \_\_ -\_ \_ \_

CONTINUOUS FOOTING SCHEDULE								
MARK	'b'	'd'	REINF 'a'	NOTES				
CF24	24"	36"	(3) #6 T&B	PROVIDE #3 TIES @ 32"oc				
CF32	CF32         32"         12"         (4) #4 T&B         PROVIDE #3 TIES @ 32"oc							
0.02	<u> </u>		(1) // 100					

 REFER TO SHEETS <u>S0.1</u>, <u>S1.1</u>, <u>AND S1.2</u> FOR GENERAL NOTES AND TYPICAL DETAILS. THE FOLLOWING DETAIL REFERENCES ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE ONLY. ALL GENERAL NOTES AND TYPICAL DETAILS NOTED ABOVE ARE APPLICABLE AND SHALL BE FOLLOWED.

2. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES.

3. SEE DETAILS OR CURB PLAN FOR CURB LOCATIONS. COORDINATE WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION. NOTIFY

4. PLUMBING AND ELECTRICAL CONDUIT AND GROUND STRAP SHALL NOT BE LAID WITHIN FOUNDATIONS. NO UTILITY PIPES OR CONDUITS SHALL BE LOCATED THRU COLUMN FOOTINGS OR FRAME FOOTINGS. NO VERTICAL OR HORIZONTAL PIPES OR CONDUITS SHALL BE LOCATED THROUGH STEEL FRAMES, STEEL COLUMNS, OR STEEL BASE PLATES. PROVIDE FURRING AND/OR THICKENED CONCRETE WHERE REQUIRED TO CLEAR UTILITY SYSTEMS. NOTIFY STRUCTURAL ENGINEER/ARCHITECT PRIOR TO ANY INSTALLATION NOT

PIPES THROUGH FOOTINGS SHALL BE PER 4/S1.1 AND 2/S1.1.

PIPES PARALLEL TO FOOTINGS SHALL BE PER 7/S1.1.

PIPES AT SLAB ON GRADE SHALL BE PER 6/S1.1.

CF24

PLAN LEGEND					
ERENCE	DESCRIPTION				
	INDICATES CONCRETE WALL.				
	INDICATES FOUNDATION.				
	INDICATES CONTINUOUS FOOTING SIZE AND REINFORCING PER SCHEDULE.				
<u>1/S4.2</u>	INDICATES ELEVATED CONCRETE SLAB				

	C. S.		No. No.	SSTO WIL 5955 TUR CALIE	APT COM A COM 3	THO NEER X	
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<b>ZFA</b> STRUCTURAL ENGINEERS 1212 fourth street   suite z zfa.com santa rosa ca 95404 707.526.0992 zfa job no. 21138 copyright © 2023							
							NO. DATE REVISION BY
			CHK BY: LSW	DATE: 04/03/2023		SCALE: As indicated	
FINI FY AQUATIC CENTER					S2.1 - MECHANICAL BLDG		
FIL	C E I	ON C NO.	TR / 02 37 2	ACT 33 7 C	N( 6 )F 2-	). 68 01	4

![](_page_37_Figure_0.jpeg)

ers\joeg\Documents\21138\_FINLEY COMMUNITY PARK\_S22C\_joegUUTR

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STD HK -

![](_page_38_Figure_1.jpeg)

![](_page_38_Figure_4.jpeg)

# - TOP OF WALL 8" CONC WALL TYP - #5 @ 12"oc EW CENTERED IN WALL SINGLE MAT

06/07/2023

5

![](_page_39_Figure_0.jpeg)

JRE	QTY/SUPPLY	<b>GPM/PSI</b>	FLOW	*	FEATURE
OCO (0010-3555)	ONE/SNEAKY SOAKER ARM $0010-0413$ MUSHRM TOP/ $1\frac{1}{2}$ "	8 GPM / 5 PSI	8 GPM	10.	POP IT (0010-7502)
0010-1680) 2 AQ9-5	TWO/1"/ NOZ-08030 NZ2.5IN	5 GPM / 6 PSI	10 GPM	11.	TRILLY LILLY WINDY (0010-1670)
(0010-1457) 3 AQ9-5	TWO/34"/ NOZ-08089 FAN	2 GPM / 10 PSI	4 GPM	12.	DAISY MAY WINDY (0010-1655)
0010-0949)	ONE/34"/NOZ-08089 FAN	4 GPM / 5 PSI	4 GPM	13.	TULIP (0010-7849)
(0010-9816) 5 AQ9-5	ONE/1"/NOZ-Ø8ØØ1 2½" - 8 HOLE, NOZ Ø8Ø26	8 GPM / 1 PSI	8 GPM	14.	TILTY POP IT (0010-7503)
ANO(0010-7495) 2 AQ9-6	ONE/1 <sup>1/</sup> 2"/NOZ-08001 2 <sup>1/</sup> 2" - 8 HOLE, NOZ 08026	10 GPM / 2 PSI	10 GPM	15.	-
010-0369) T AQ9-5/	FOUR/11/2"/NOZ-NOZ 08002	20 GPM / 6 PSI	20 GPM	16.	BEACH BALL
(0010-4592) SIM	ONE/11/2 "/OPEN FLOW	15 GPM / 8 PSI	15 GPM	17.	ACTIVATOR - QTY (2)
950) STARFISH (0010-8856) 1 8869)	THREE/1"/NOZ 003-1616	2 GPM / 10 PSI	6 GPM	18.	SEAT WALL

![](_page_40_Figure_0.jpeg)

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LASH PAD PIPING PLAI	
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PAD WET PLAY FEA	
ONE/SNEAKY SOAKER ARM	
0010-0413 MIGLEM TOP/11/2 8 GPM / 5	PSI 8 GPM m 0
TWO/I"/ NOZ-08030 NZ2.5IN     5 GPM / 6       TWO/3/4"/ NOZ-08089 FAN     2 GPM / 10	PSI     10/GPM     10/GPM     10/GPM       PSI     10/GPM     X     1       PSI     4/GPM     X     1
TWO/I"/ NOZ-08030 NZ2.5IN       5 GPM / 6         TWO/3/4"/ NOZ-08089 FAN       2 GPM / 10         ONE/3/4"/NOZ-08089 FAN       4 GPM / 5	PSI       IØ GPM       M       I
TWO/I"/ NOZ-08030 NZ2.5IN       5 GPM / 6         TWO/3/4"/ NOZ-08089 FAN       2 GPM / 10         ONE/3/4"/NOZ-08089 FAN       4 GPM / 5         ONE/1"/NOZ-08001       8 GPM / 15	PSI       IØ GPM       N       I<
TWO/I"/ NOZ-08030 NZ2.5IN       5 GPM / 6         TWO/3/4"/ NOZ-08089 FAN       2 GPM / 10 $ONE/3/4$ "/ NOZ-08089 FAN       4 GPM / 5 $ONE/3/4$ "/ NOZ-08089 FAN       4 GPM / 5 $ONE/1^*$ NOZ-08001       8 GPM / 15 $ONE/1^*$ NOZ-08001       8 GPM / 15 $ONE/1^*$ NOZ-08001       10 GPM / 25 $ONE/1^*$ NOZ-08001       10 GPM / 25	PSI       10 GPM       H       10 GPM         PSI       4 GPM       WY       H       H         PSI       4 GPM       WY       H       H         PSI       4 GPM       H       H       H         PSI       4 GPM       H       H       H         PSI       4 GPM       H       H       H         PSI       8 GPM       H       H       H         PSI       10 GPM       H       H       H
TWO/I"/ NOZ-08030 NZ2.5IN       5 GPM / 6         TWO/34"/ NOZ-08089 FAN       2 GPM / 12         ONE/34"/NOZ-08089 FAN       4 GPM / 5         ONE/1"/NOZ-08001       8 GPM / 1         2½" - 8 HOLE, NOZ 08026       10 GPM / 2         ONE/1½"/NOZ-08001       10 GPM / 2         2½" - 8 HOLE, NOZ 08026       20 GPM / 1	PSI       10 GPM       Image: style="text-align: center;">Image: style="text-align: center;">Image: style="text-align: center;">Image: style="text-align: style="text-align: center;">Image: style="text-align: style="text-align: center;">Image: style="text-align: style="text-align: style="text-align: center;">Image: style="text-align: style="text-align: style="text-align: center;">Image: style="text-align: style="texty
TWO/I"/ NOZ-08030 NZ2.5IN       5 GPM / 6         TWO/34"/ NOZ-08089 FAN       2 GPM / 12         ONE/34"/NOZ-08089 FAN       4 GPM / 5         ONE/1"/NOZ-08001       8 GPM / 1         2½" - 8 HOLE, NOZ 08026       8 GPM / 1         ONE/1½"/NOZ-08001       10 GPM / 2         2½" - 8 HOLE, NOZ 08026       10 GPM / 2         ONE/1½"/NOZ-08001       10 GPM / 2         0NE/1½"/NOZ-08001       10 GPM / 2         0NE/1½"/NOZ-08002       10 GPM / 2         0NE/1½"/NOZ-NOZ 08002       10 GPM / 2         0NE/1½"/NOZ-NOZ 08002       10 GPM / 2	PSI       10 GPM       I       I       IIII       IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
TWO/I"/ NOZ-Ø8Ø3Ø NZ2.5IN       5 GPM / 6         TWO/34"/ NOZ-Ø8Ø89 FAN       2 GPM / 16         ONE/34"/ NOZ-Ø8Ø89 FAN       2 GPM / 16         ONE/1"/NOZ-Ø8Ø89 FAN       4 GPM / 5         ONE/1"/NOZ-Ø8Ø89 FAN       10 GPM / 1         ONE/1"/NOZ-Ø8Ø89 FAN       10 GPM / 2         ONE/1"/NOZ-Ø8Ø89 FAN       10 GPM / 2         ONE/1"/2"/NOZ-Ø8Ø89 FAN       10 GPM / 2         ONE/1"/2"/NOZ-Ø8Ø89 FAN       10 GPM / 2         ONE/1"/2"/NOZ-Ø8Ø89 FAN       10 GPM / 2         FOUR/1"/2"/NOZ-NOZ Ø8Ø89 FAN       10 GPM / 2         ONE/1"/2"/NOZ-NOZ Ø8Ø89 FAN       10 GPM / 2         ONE/1"/2"/OPEN FLOW       15 GPM / 8         "6)       THREE/1"/NOZ Ø03-1616       2 GPM / 10	P6I       IØ GPM       I<
TWO/I*/ NOZ-08030 NZ2.5IN       5 GPM / 6         TWO/34*/ NOZ-08083 FAN       2 GPM / 16         ONE/34*/ NOZ-08083 FAN       2 GPM / 16         ONE/34*/ NOZ-08083 FAN       4 GPM / 5         ONE/1*/NOZ-08001       8 GPM / 1         2½2* - 8 HOLE, NOZ 08026       8 GPM / 1         ONE/1½2*/NOZ-08001       10 GPM / 2         2½2* - 8 HOLE, NOZ 08026       10 GPM / 2         FOUR/1½2*/NOZ-08001       10 GPM / 2         0NE/1½2*/NOZ-08001       10 GPM / 2         0NE/1½2*/NOZ-08002       10 GPM / 2         0NE/1½2*/NOZ-08001       10 GPM / 2         0NE/1½2*/NOZ-NOZ 08002       20 GPM / 4         0NE/1½2*/NOZ-NOZ 08002       20 GPM / 2         60       THREE/1*/NOZ 003-1616       2 GPM / 10         5EVEN/1*/NOZ08001 6*POPIT       1 GPM / 15	P6I       IØ GPM       III       IIII       IIIII       IIIIII       IIIIII       IIIIII       IIIIIII       IIIIIII       IIIIIIII       IIIIIIII       IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
TWO/I*/ NOZ-Ø8Ø3Ø NZ2.5IN         5 GPM / 6           TWO/3/4*/ NOZ-Ø8Ø89 FAN         2 GPM / 16           ONE/3/4*/ NOZ-Ø8Ø89 FAN         2 GPM / 16           ØNE/3/4*/ NOZ-Ø8Ø89 FAN         4 GPM / 5           ØNE/1*/NOZ-Ø8Ø89 FAN         4 GPM / 5           ØNE/1*/NOZ-Ø8Ø89 FAN         4 GPM / 1           ØNE/1*/NOZ-Ø8Ø89 FAN         10 GPM / 2           ØNE/1*/2*/NOZ-Ø8Ø89 FAN         10 GPM / 2           FOUR/1*/2*/NOZ-NOZ Ø8Ø26         10 GPM / 2           ØNE/1*/2*/NOZ-NOZ Ø8Ø89 FAN         15 GPM / 8           ØNE/1*/2*/OPEN FLOW         15 GPM / 8           %6)         THREE/1*/NOZ ØØ3-1616         2 GPM / 16           SEVEN/1*/NOZØ8Ø81 6*POPIT         1 GPM / 15           ØNE/1*/NOZ-Ø8Ø30 NZ2.51N         5 GPM / 6	P91       10 GPM         P93       4 GPM         P31       4 GPM         P31       4 GPM         P31       4 GPM         P31       8 GPM         P31       8 GPM         P31       9 GPM
TWO/I*/ NOZ-Ø8Ø3Ø NZ2.5IN       5 GPM / 6         TWO/84*/ NOZ-Ø8Ø89 FAN       2 GPM / 12         ONE/84*/ NOZ-Ø8Ø89 FAN       4 GPM / 5         ONE/1*/NOZ-Ø8Ø89 FAN       4 GPM / 5         ONE/1*/NOZ-Ø8Ø89 FAN       4 GPM / 5         ONE/1*/NOZ-Ø8Ø89 FAN       4 GPM / 12         2½2* - 8 HOLE, NOZ Ø8Ø26       8 GPM / 1         ONE/1½*/NOZ-Ø8Ø81       10 GPM / 2         2½2* - 8 HOLE, NOZ Ø8Ø26       10 GPM / 2         ONE/1½*/NOZ-NOZ Ø8Ø26       10 GPM / 2         FOUR/1½*/NOZ-NOZ Ø8Ø26       10 GPM / 2         ONE/1½*/NOZ-NOZ Ø8Ø26       10 GPM / 2         60*       THREE/1*/NOZ Ø8Ø3-1616       2 GPM / 12         56*       THREE/1*/NOZ Ø8Ø30 NZ2.51N       5 GPM / 6         ONE/1*/NOZ-Ø8Ø30 NZ2.51N       5 GPM / 6         ONE/1*/NOZ-Ø8Ø30 NZ2.51N       5 GPM / 6	P91       IØ GPM       M P0 GPM         4 GPM       4 GPM       10 GPM         9 9 10       4 GPM       10 GPM         9 9 10       4 GPM       10 GPM         9 9 10       8 GPM       10 GPM         9 9 10       10 GPM       10 GPM         9 03 1       1 GPM       1 GPM         9 03 1       5 GPM       1 GPM
TWO/I*/ NOZ-Ø8Ø3Ø NZ2.5IN         5 GPM / 6           TWO/34*/ NOZ-Ø8Ø89 FAN         2 GPM / 12           ONE/34*/ NOZ-Ø8Ø89 FAN         2 GPM / 12           ØNE/34*/ NOZ-Ø8Ø89 FAN         4 GPM / 5           ØNE/1*/NOZ-Ø8Ø89 FAN         4 GPM / 5           ØNE/1*/NOZ-Ø8Ø89 FAN         4 GPM / 1           ØNE/1*/NOZ-Ø8Ø89 FAN         4 GPM / 12           ØNE/1*/NOZ-Ø8Ø89 FAN         4 GPM / 1           ØNE/1*/2* - 8 HØLE, NOZ Ø8Ø26         8 GPM / 1           ØNE/1*/2*/NOZ-Ø8Ø89         10 GPM / 2           ØNE/1*/2*/NOZ-NOZ Ø8Ø26         10 GPM / 2           ØNE/1*/2*/OPEN FLOW         15 GPM / 8           Ø60         THREE/1*/NOZ ØØ3-1616         2 GPM / 16           SEVEN/1*/NOZ Ø8Ø90 6*POPIT         1 GPM / 15           ØNE/1*/NOZ-Ø8Ø30 NZ2.51N         5 GPM / 6           ØNE/1*/NOZ-Ø8Ø30 NZ2.51N         5 GPM / 6           ØNE/1*/NOZ-Ø8Ø30 NZ2.51N         5 GPM / 6	P6I       10 GPM       H         P6I       4 GPM       H         P6I       4 GPM       H         P6I       4 GPM       H         P6I       8 GPM       H         P6I       8 GPM       H         P6I       10 GPM       H         P6I       16 GPM       H         P6I       16 GPM       H         P6I       5 GPM       H         P6I       18 GPM<
TWO/I'/ NOZ-Ø8Ø3Ø NZ2.5IN         5 GPM / 6           TWO/ <sup>3</sup> 4'/ NOZ-Ø8Ø89 FAN         2 GPM / 16           ONE/ <sup>3</sup> 4'/NOZ-Ø8Ø89 FAN         4 GPM / 5           ONE/ <sup>3</sup> 4'/NOZ-Ø8Ø89 FAN         4 GPM / 5           ONE/ <sup>1</sup> / <sub>2</sub> ''NOZ-Ø8Ø89 FAN         4 GPM / 1           ONE/ <sup>1</sup> / <sub>2</sub> ''NOZ-Ø8Ø89 FAN         4 GPM / 1           ONE/ <sup>1</sup> / <sub>2</sub> ''NOZ-Ø8Ø89 FAN         4 GPM / 1           ONE/ <sup>1</sup> / <sub>2</sub> ''NOZ-Ø8Ø89 FAN         4 GPM / 1           ONE/ <sup>1</sup> / <sub>2</sub> ''NOZ-Ø8Ø89 FAN         9 GPM / 1           ONE/ <sup>1</sup> / <sub>2</sub> ''NOZ-Ø8Ø89 FAN         9 GPM / 1           ONE/ <sup>1</sup> / <sub>2</sub> ''NOZ-Ø8Ø89 FAN         9 GPM / 1           ONE/ <sup>1</sup> / <sub>2</sub> ''NOZ-Ø8Ø89 FAN         9 GPM / 1           ONE/ <sup>1</sup> / <sub>2</sub> ''NOZ-Ø8Ø89 FAN         9 GPM / 1           ONE/ <sup>1</sup> / <sub>2</sub> ''NOZ-Ø8Ø89 FAN         9 GPM / 1           ONE/ <sup>1</sup> / <sub>2</sub> ''NOZ-NOZ Ø8Ø89 FAN         9 GPM / 1           Ø         ONE/ <sup>1</sup> / <sub>2</sub> ''NOZ-NOZ Ø8Ø89 FAN         1 GPM / 18           Ø <sup>6</sup> THREE/ <sup>1</sup> / <sub>2</sub> ''NOZ Ø8Ø80 FANZ2.5IN         5 GPM / 6           ØNE/ <sup>1</sup> 'NOZ-Ø8Ø3Ø NZ2.5IN         1 GPM / 16	P6I       IØ GPM       M         P6I       4 GPM       P         P5I       4 GPM       P         P5I       4 GPM       P         P5I       8 GPM       P         P5I       9 GPM       P         P5I       10 GPM       P         P5I       10 GPM       P         P5I       10 GPM       P         P5I       15 GPM       P         P5I       1 GP       P         P       1 GP <t< td=""></t<>
TWO/I'/ NOZ-Ø8Ø3Ø NZ2.5IN         5 GPM / 6           TWO/I'/ NOZ-Ø8Ø89 FAN         2 GPM / 16           ONE/ <sup>3</sup> 4'/ NOZ-Ø8Ø89 FAN         2 GPM / 16           ONE/ <sup>3</sup> 4'/NOZ-Ø8Ø89 FAN         4 GPM / 5           ONE/I'/NOZ-Ø8Ø89 FAN         4 GPM / 1           ONE/I'/2'/NOZ-Ø8Ø89 FAN         4 GPM / 1           Ø         FOUR/I'/2'/NOZ-Ø8Ø89 FAN         4 GPM / 1           Ø         FOUR/I'/2'/NOZ-Ø8Ø89 FAN         2 GPM / 16           Ø         ONE/I'/NOZ-Ø8Ø3Ø NZ2.5IN         5 GPM / 16           Ø         ONE/I'/NOZ-Ø8Ø3Ø NZ2.5IN         5 GPM / 6           Ø         ONE/I'/NOZ-Ø8Ø3Ø NZ2.5IN         5 GPM / 16           Ø         THREE/I'/2'/NOZ-Ø8Ø3Ø NZ2.5IN         5 GPM / 16           Ø         THREE/I'/2'/NOZ-Ø8Ø3Ø 2'/2'         18 GPM / 11           FOURTEEN/I'/NOZ-Ø83Ø5, 6'         1 GPM / 15	P91       10 GPM         P91       4 GPM         P91       4 GPM         P91       4 GPM         P91       8 GPM         P91       10 GPM         P91       1 GPM         P91       5 GPM         P91       5 GPM         P91       5 GPM         P91       18 GPM         P91       18 GPM         P91       14 GPM
TWO/I'/ NOZ-08030 NZ25IN         5 GPM / 6           TWO/ <sup>3</sup> 4'/ NOZ-08083 FAN         2 GPM / 12           ONE/ <sup>3</sup> 4'/NOZ-08083 FAN         4 GPM / 12           ONE/ <sup>1</sup> / <sub>2</sub> ' NOZ-08083 FAN         4 GPM / 12           ONE/I'/NOZ-08001         8 GPM / 1           ONE/I'/NOZ-08001         8 GPM / 1           ONE/I'/NOZ-08001         10 GPM / 2           ONE/I'/2' NOZ-08001         10 GPM / 2           ONE/I'/2' NOZ-08001         10 GPM / 2           ONE/I'/2' NOZ-NOZ 08002         20 GPM /           ONE/I'/2' NOZ-NOZ 08002         20 GPM / 12           ONE/I'/2' NOZ-NOZ 08002         20 GPM / 12           ONE/I'/2' NOZ-NOZ 08001         6'POPIT           ONE/I'/2' NOZ-NOZ 08001         2 GPM / 12           ONE/I'/2' NOZ-NOZ 08001         2 GPM / 12           ONE/I'/NOZ-08030 NZ25IN         5 GPM / 6           ONE/I'/NOZ-08030 NZ25IN         5 GPM / 6           ONE/I'/NOZ-08030 NZ25IN         5 GPM / 1           FOURTEEN/I'NOZ-08030 2 <sup>1</sup> /2'         18 GPM / 15           -         -         -           -         -         -	PSI       IØ GPM       I       I       II       III       III       III       IIII       IIIII       IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII

![](_page_41_Figure_0.jpeg)

![](_page_42_Figure_0.jpeg)

![](_page_43_Figure_0.jpeg)

![](_page_44_Figure_0.jpeg)

![](_page_45_Figure_0.jpeg)

![](_page_46_Figure_0.jpeg)

![](_page_47_Figure_0.jpeg)

![](_page_48_Figure_0.jpeg)

![](_page_49_Figure_0.jpeg)

![](_page_50_Figure_0.jpeg)

#	KEY NOTES		CENSE ETH P	D ARCAI	
- 1. *	RECIRCULATION PUMP 208-230/460 3 PHASE (13.5-12.3/6.2)AMPS PENTAIR EQK-500, 5HP #340604, 3450 RPM, 157 GPM@60TDH (6" X 4")		No. ( Exp. 12	C15,022	
- 2.	WITH INTEGRAL STRAINER, SELF-PRIMING, TEFC. FILTER (HIGH RATE SAND) W/ 4" ~ PIPING & AUTOMATION EPD 42"X48" - 13.5 SF. WITH VALVES, 23 CU FT MEDIA & CONTROLLER		ATE OF	CALLEOR	
- 3.	MODEL #150 (31" BY 61) STL. 4,000 LBS HEATER (NATURAL GAS) RAY PAK X94 399K BTU, MODEL# S-R410 WITH 4" VENT INTAKE & EXHAUST. [" ~ NG CONNECTION, 2"` WATER @ 40 GPM MIN.			Rose	
- 4.*	WT= 300 LBS - W/T&P VALVE 120V 5.0A ULTRA VIOLET SANITIZER SAFEGUARD UV. CLS - 4390 AC		of	lta ]	
5.	MODEL # 4390A6 390W IN / 126W OUT RATED AT 172 GPM 120V AUTOMATED CONTROLLER BEC'S SYSTEM 5 10A/110V - CONTROLS METERING PUMP RECPETACLE VARIABLE FREQUENCY DRIVE		City	Sar	
- 7.	PENTAIR ACUDRIVE XS (5HP) 460 V 3~ REDUCED PRESSURE BACKFLOW PREVENTER MAKE-UP WATER CONTROLLER (1 INCH) FEBCO WITH	G	60		
- 8. 9. - 10.	CLA-VAL ACTUATED VALVE 850/LF850 ELECTRICAL SERVICE ENT. & PANEL (WALL MOUNTED) SEE ELECT TRANSFORMER (OVERHEAD - WALL MOUNTED) SEE ELECT WET PLAY FEATURE MANIFOLD CONNECT TO WTSBO CONTROLLER (45)				
- 11. *	DILUTE ACID STORAGE (10%) - STENNER DUAL CONTAINMENT TANK (7.5 GALLON STORAGE) & METERING PUMP - LMI MODEL HH911-987SS AT .14 GPH MAX 300PSI CONTROLED BY AUTO CONTROLLER - 110V			Palomar Airport Road Carlehard CA exn	700 181 1800
- 12. *	CORD WITH PLUG TO DUPLEX OUTLET CONTROLLED BY AUTO CONTR. LIQUID CHLORINE STORAGE (12.5%) - STENNER DUAL CONTAINMENT TANK (15 GALLON STORAGE) & METERING PUMP - LMI 911-987SS RATED @ 1.14 GPH @ 300PSI CONTROL BY AUTO CONTROLLER - 110V				
13.	HAZ-MAT CABINET MOUNTED TO WALL - TO RESIST SEISMIC FORCES SEPARATE DEDICATED CABINET FOR EACH CHEMICAL				BY
—14. —15.	THOMAS SCIENTIFIC #113P54 LEFT HINGED 22" X 35.1 HIGH EXHAUST FAN - PADDOCK ROOM EVACUATOR 120V GFCI WITH DUCT PACKAGE 53W SCUTTLE TO BACKWASH PIT & CISTERN				NOISI
—16. 17. 18.	M.S. INDUSTRIES PVC LADDER RUNGS @ 12" O.C. SANITARY SEWER CONNECTION 4" VIA P-TRAP IN BOTTOM OF SUMP HAZ-MAT INFORMATION STATION				REV
— 19. 20. — 21. — 22.	4'-O" WIDE BY 7'-O" FULLY LOUVERED FIBERGLASS DOOR (SEE ARCH) HAZ-MAT SIGNAGE CONCRETE EQUIPMENT PAD WITH SEISMIC RESTRAINT				DATE
-23.	FEATURE SUPPLY PUMP - 460V 3 PHASE PENTAIR EQ-500, 5HP #340030 OR #34003 BASED ON VOLTAGE WITH INTEGRAL STRAINER, 134 GPM @ 60TDH SELF-PRIMING (6" X 4")				Öz
24. 25. 26. 27.	BLUE/WHITE FLOW METER BUILDING (12'-O" BY 20'-O") WITH 8'-O" CLR TO CEILING - SEE ARCH UTILITY POINT OF CONNECTION PORTABLE WALL MOUNTED GRAVITY FED EYEWASH HAWS 7501			9/2023	= 1'-0"
28. - 29. —30.	FIRE EXTINGUISHER OVAL 4A:80B:C 10LBS WALL MOUNTED WITH SIGN PIPE HANGAR AS-BUILT DOCUMENT FOR MAINTENANCE & OPERATIONS (LABELED)	V BY: KM	<ul><li>BY:</li></ul>	DATE: 6/	CALE: 4"
- 31. —32.	ANTI-VORTEX PLATE 4" SCHED 80 PVC TO STORM SEWER CATCH BASIN  "FT SLOPE WITH GATE VALVE CONTROLLED THROUGH SLEEVE WITH TOOL FROM PLANTER WITH PVC COVER - DIVERTER OF STORM TO SEWER IN	D	Ë		Ō
33. 34. 35.	OFF SEASON NOT USED BFV GAUGE	ITER		TI CVV	
36. 37. 38. 39.	METAFIN BI PASS VALVE (PRESSURE SUSTAINING) CISTERN LIGHTING SEE ELECT FLOOR SINK SEE PLUMBING	TIC CEN		2.1 DAJENIT I	
40. 41. —42. - 43.	FENCE SEE ARCH - WATER STOP AT PIPE PENETRATION LINK SEAL AT WALL PENETRATIONS	AQUA		AQM	
44. 45. - 46. 47. NOTE	BUTTERFLY VALVE W/ STN. STL. EXTENSION HANDLE TO FLOOR ABOVE WATER LEVEL SENSOR CONNECT TO CAL VAL VALVE AT RPBFP D.E. FILTER SCREEN, REMOVABLE AND CLEANABLE STN. STL. TIMER ON FEATURE PUMP VFD / PUMP	FINLEY	D TANTO		
BONI ALL E THE F	D AND GROUND ALL METAL COMPONENTS TYP. $(1 \ 9)$ EQUPMENT TO BE DIRECT CONNECTION TYP. U.O.N RECIRCULATION SYSTEM SHALL BE IN OPERATION AT ALL TIMES THAT	C	CONTR	ACT NO	<ul><li>D.</li></ul>
THE S FOUR DISIN	DFKAYGKUUNU IS UPEN FUK USE AND SHALL HAVE A MINIMUM OF (4) TURNOVER CYCLES PRIOR TO OPENING FOR PROPER IFECTION AND FILTRATION.	MODE	EL 5 NO. 2	1 OF 2022-	68 ·014

	PAT	

![](_page_51_Figure_0.jpeg)

![](_page_52_Figure_0.jpeg)

![](_page_53_Figure_0.jpeg)

NOTE: This is a standard symbol list and not all items listed may be used.

# **Abbreviations**

(E)	EXISTING
(N)	NEW
(R)	RELOCATE
(X)	DEMOLISH
А	AMPERES, AMBER
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AVAILABLE INTERRUPTING CAPACITY
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AWG	AMERICAN WIRE GAUGE
С	CONDUIT, CLOSE, CONTROL
CLG	CEILING
COORD	COORDINATE
CU	COPPER
DIA	DIAMETER
DIM	DIMENSION
DIV	DIVISION
DN	DOWN
DTL	DETAIL
DWG	DRAWING
E	EMERGENCY
EA	EACH
EF	EXHAUST FAN
FT	FOOT, FEET
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GFP	GROUND FAULT PROTECTION
GR	GROUNDING ROD
HT	HEIGHT
ID	IDENTIFICATION
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
IN	INCH, INCHES
KVA	KILOVOLT AMPERES
KW	KILOWATT
LED	LIGHT EMITTING DIODE
MCA	MINIMUM CIRCUIT AMPS
MIN	MINIMUM
MISC	MISCELLANEOUS
MOCP	MAXIMUM OVERCURRENT PROTECTION
MT, MTD	MOUNT, MOUNTED
N.I.C.	NOT IN CONTRACT
N/A	NOT APPLICABLE
N	NEUTRAL

# **ELECTRICAL SYMBOL LIST**

NEC	NATIONAL ELECTRIC CODE	Ligh	nting
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION		
NESC	NATIONAL ELECTRIC SAFETY CODE	<b>∠</b> ∗	1 LOODLIGITT
NTS	NOT TO SCALE		SURFACE OR PENDANT MOUNTED 6" X 4' LUMINAIRE
OC	ON CENTER	<b>오</b>	WALL MOUNTED LUMINAIRE
PH	PHASE		
PNL	PANEL	Mise	cellaneous
PVC	POLY-VINYL-CHLORIDE	#10	BRANCH CIRCUIT WIRING, ARROW INDICATES HOME RUN TO
PWR	POWER	B-27,29,31.	PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUN UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE
QTY	QUANTITY		PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES
REF	REFERENCE		TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR
REQD	REQUIRED	_	
RM	ROOM		BRANCH PANEL
SHT	SHEET		CIRCUIT BREAKER
STD	STANDARD	يسلس	DRY TYPE TRANSFORMER
SWBD	SWITCHBOARD	· · · ·	
TBD	TO BE DETERMINED	Rac	eways
TYP	TYPICAL		CONDUIT CONCEALED IN WALL OR CEILING SPACE
UG	UNDERGROUND		
UPS	UNINTERRUPTIBLE POWER SUPPLY		CONDUIT ROUTED BELOW FLOOR / GRADE
V	VOLTS, VOLTAGE	•	CONDUIT ELLED DOWN
VFD	VARIABLE FREQUENCY DRIVE		
W/	WITH	0	CONDOLLED OF
W/O	WITHOUT		CONDUIT/WIRING CONTINUATION
WG	WIRE GUARD		
WP	WEATHERPROOF	SWI	iches and Receptacles
XFMR	TRANSFORMER	Φ	DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS)
Co	onnections / Equipment		G = GROUND FAULT CIRCUIT INTERRUPTER W = WEATHERPROOF CONTINUOUS USE COVER, GFCI

# Connections / Equipment

		PROTECTED, WITH WEATHER-RESISTANT RECEPTACLE
VFD	COMBINATION ADJUSTABLE FREQUENCY DRIVE WITH SAFETY DISCONNECT SWITCH	\$ SINGLE POLE SWITCH M = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD
F	HEAVY DUTY FUSED DISCONNECT SWITCH	
$\mathcal{O}$	MOTOR CONNECTION	

# General

-X-X- DEMOLISH

Т

NEW WORK

TRANSFORMER

Х X XX-X LOCATION

 $\langle 1 \rangle$ 

# EXISTING WORK

DETAIL NUMBER AND SHEET LOCATION

EQUIPMENT IDENTIFICATION

KEYED NOTE

# SHEET INDEX

- E0.1 SYMBOLS LIST AND GENERAL NOTES - ELECTRICAL
- SCHEDULES ELECTRICAL E0.2 E0.3 TITLE 24 - ELECTRICAL
- E0.4 TITLE 24 ELECTRICAL
- E1.1 SITE PLAN ELECTRICAL
- E4.1 ENLARGED FLOOR PLAN ELECTRICAL
- E5.1 SINGLE-LINE DIAGRAM, PANEL SCHEDULES & DETAILS ELECTRICAL

# **GENERAL SHEET NOTES**

- A. DO NOT COMMENCE INSTALLATION OF ELECTRICAL SYSTEMS AND EQUIPMENT WITHOUT RELATED SHOP DRAWING APPROVALS.
- B. ELECTRICAL CIRCUITS SHALL BE INTERRUPTED ONLY WITH PRIOR WRITTEN CONSENT. SUCH INTERRUPTIONS SHALL BE PRECEDED BY ALL POSSIBLE PREPARATIONS BY THE CONTRACTOR WHICH ARE NECESSARY TO KEEP THE ELECTRICAL CIRCUITS OFF FOR A MINIMUM PERIOD IN AN EXPEDITIOUS MANNER PURSUANT WITH GOOD WORKMANSHIP. THIS INCLUDES CIRCUIT TRACING TO IDENTIFY THE ELECTRICAL LOAD BEING SERVED AND THE ORIGIN OF THE CIRCUIT.
- C. COORDINATE WITH OWNER SO THAT WORK CAN BE SCHEDULED NOT TO INTERRUPT OPERATIONS, NORMAL ACTIVITIES, BUILDING ACCESS, ACCESS TO DIFFERENT AREAS. THE OWNER WILL COOPERATE TO THE BEST OF THEIR ABILITY TO ASSIST IN A COORDINATED SCHEDULE, BUT WILL REMAIN THE FINAL AUTHORITY AS TO TIME OF WORK PERMITTED.
- COORDINATE THE EXACT LOCATION OF EXISTING UTILITIES AND EQUIPMENT PRIOR D. TO COMMENCEMENT OF WORK. COMPENSATE THE OWNER FOR DAMAGES CAUSED BY THE FAILURE TO LOCATE AND PRESERVE UTILITIES. REPLACE DAMAGED ITEMS WITH NEW MATERIAL TO MATCH EXISTING.
- F MAINTAIN ELECTRICAL CONTINUITY OF EXISTING SYSTEMS. REMOVE OR RELOCATE ELECTRICAL BOXES, CONDUIT, WIRING, EQUIPMENT, LUMINAIRES, AND THE LIKE, AS REQUIRED IN REMOVED OR REMODELED AREAS IN THE EXISTING CONSTRUCTION AFFECTED BY THIS WORK.
- F. REMOVE AND RESTORE WIRING WHICH SERVES USABLE EXISTING OUTLETS CLEAR OF THE CONSTRUCTION OR DEMOLITION.
- G. IF EXISTING JUNCTION BOXES WILL BE MADE INACCESSIBLE, OR IF ABANDONED OUTLETS SERVE AS FEED THROUGH BOXES FOR OTHER EXISTING ELECTRICAL EQUIPMENT WHICH IS BEING RETAINED, PROVIDE NEW CONDUIT AND WIRE TO BYPASS THE ABANDONED OUTLETS.
- H. VERIFY EXACT LOCATION AND NUMBER OF EXISTING ELECTRICAL OUTLETS AND LUMINAIRES IN THE FIELD. LOCATIONS OF ITEMS SHOWN ON DRAWINGS AS EXISTING ARE PARTIALLY BASED ON RECORD AND OTHER DRAWINGS WHICH MAY CONTAIN ERRORS. VERIFY THE ACCURACY OF THE INFORMATION SHOWN PRIOR TO BIDDING AND PROVIDE SUCH LABOR AND MATERIAL AS IS NECESSARY TO ACCOMPLISH THE INTENT OF THE CONTRACT DOCUMENTS.
- REMOVE ABANDONED WIRING TO LEAVE SITE CLEAN.
- J. PROVIDE BLANK COVER PLATE FOR ABANDONED FLUSH OUTLETS.
- K. MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS WHICH REMAIN ACTIVE. MODIFY INSTALLATION OR PROVIDE ACCESS PANEL AS APPROPRIATE.
- L. WHERE DRAWINGS INDICATE EXISTING ELECTRICAL EQUIPMENT OR DEVICES TO BE RELOCATED AND/OR REUSED, REFURBISH THEM. THOROUGHLY CLEAN SUCH ITEMS. NOTIFY ARCHITECT OF ANY DEFECTS IN SUCH INSTALLATIONS. REPAIR ANY DAMAGE CAUSED BY DEMOLITION OR CONSTRUCTION PERFORMED UNDER THIS CONTRACT.
- PROVIDE UPDATED PANEL SCHEDULES AND DIRECTORIES THAT IDENTIFY EXISTING M. CIRCUITS AND NUMBER OF SPARE CIRCUITS AVAILABLE UPON COMPLETION OF DEMOLITION WORK.
- N. OFFER REMOVED WIRING DEVICES, PANELBOARDS AND EQUIPMENT TO THE OWNER. IF OWNER CHOOSES TO RETAIN THESE ITEMS, RETURN SUCH ITEMS TO OWNER. CAREFULLY REMOVE AND DISPOSE OF ITEMS REJECTED BY OWNER FROM PROJECT SITE AND IN A LEGAL MANNER.
- 0. PROVIDE SUITABLE ANCHORAGE AND SUPPORT FOR ELECTRICAL EQUIPMENT IN RATED WALLS, SLABS AND CEILINGS. MOUNT DEVICES AND RACEWAYS IN ACCORDANCE WITH ESTABLISHED CODES AND SPECIFICATIONS.
- P. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- Q. DRAWINGS AND SPECIFICATIONS COMPLEMENT EACH OTHER. REQUIREMENT BY EITHER INFERS REQUIREMENT BY BOTH.
- R. CONNECT EQUIPMENT AND DEVICES FURNISHED UNDER OTHER DIVISIONS OF THIS CONTRACT, BY OWNER OR BY OTHER CONTRACTS.
- S. UNLESS OTHERWISE NOTED, PROVIDE CONCEALED AND FLUSH MOUNTED INSTALLATION OF DEVICES AND EQUIPMENT IN AREAS.
- T. PROVIDE SEPARATE EQUIPMENT GROUNDING CONDUCTOR IN 120 VOLT, MULTI-WIRE CIRCUITS.
- U. FOR 120 VOLT, 20 AMP CIRCUITS, WHERE CIRCUIT DISTANCE FROM PANELBOARD TO FARTHEST DEVICE/FIXTURE EXCEEDS 70 FEET, PROVIDE #10 SIZE CONDUCTOR. WHERE CIRCUIT DISTANCE FROM PANELBOARD TO FARTHEST DEVICE/FIXTURE EXCEEDS 100 FEET, PROVIDE #8 SIZE CONDUCTOR.
- V. RUN ELECTRICAL CONDUIT CONCEALED AND PARALLEL TO BUILDING LINES. VERIFY WITH ARCHITECT.
- W. RECEPTACLE OUTLETS SHALL COMPLY WITH CEC SECTIONS 210.7 AND 210.50.
- X. LIGHTS, SWITCHES AND CONTROL MECHANISMS SHALL COMPLY WITH CEC SECTION 404.
- Y. BRACE ELECTRICAL EQUIPMENT TO RESIST A HORIZONTAL FORCE THAT ACT IN ANY DIRECTION. COMPLY WITH TITLE 24 REQUIREMENTS.
- Z. INSTALL COMPLETE SYSTEM OF CONDUCTORS IN RACEWAY SYSTEM THROUGHOUT BUILDING FOR FEEDERS, BRANCH CIRCUITS, ETC.
- AA. COORDINATE ALL CONDUIT TRENCHING WITH OTHER DISCIPLINES AND THE UTILITY COMPANY TO AVOID CONFLICT.
- AB. MINIMUM SIZE FOR EXTERIOR BELOW GRADE CONDUIT SHALL BE 1".
- AC. ALL AIC RATINGS SHOWN ARE MINIMUM REQUIREMENTS. COORDINATE AND UPGRADE RATINGS FOR ALL DISTRIBUTION EQUIPMENT AS PER SHORT CIRCUIT ANALYSIS RECOMMENDATIONS.
- AD. HIRE THIRD PARTY TESTING AGENCY TO PERFORM SHORT CIRCUIT STUDY, ARC FLASH STUDY & LABELS, AND OVERCURRENT PROTECTIVE STUDY.
- AE. PROVIDE TESTING REPORTS TO ENGINEER FOR REVIEW UPON COMPLETION OF INSTALLATION FOR THE FOLLOWING:
  - 1. MEGGER TEST AND TORQUE TEST REPORTS PRIOR TO EQUIPMENT ENERGIZATION.

![](_page_54_Figure_57.jpeg)

							LUMINA	AIRE SCHED	DULE			
TYPE	DESCRIPTION	HOUSING	SHIELDING	MOUNTING	FINISH	UL/IP RATING	DRIVER/ POWER SUPPLY	LIGHT SOURCE	INPUT WATTS	VOLTAGE	MFG/CATALOG #	
S1	TREE UPLIGHT/DOWNLIGHT,2 OFF EACH AT EACH TREE	DIE CAST ALUMINUM	POLYCARBONTE LENS	MOUNTED AT 14' ON TREE STRAP,FINAL LOCATION VERIFIED IN FIELD	TO BE ADVISED BY ARCHITECT	WET LISTED	STANDARD WITH REMOTE DIRECT BURIAL TRANSFORMER	UPLIGHT; LED 280 LUMENS, 2700K DOWNLIGHT; LED 344 LUMENS, 2700K	UPLIGHT;10W DOWNLIGHT;10W	120V WITH TRANSFORMER	FX LUMINAIRE UPLIGHT :NP-6LED-BZ DOWNLIGHT:DE-9LED-BZ TRANSFORMER:MODEL 600DB DIRECT BURIAL UNIQUE LIGHTING SYSTEMS.TREE STRSP:FX LUMINAIRE TR-24-6P-BZ OR APPROVED EQUIVALENT	
S2	STRING LIGHTS FOR EXTERIOR COURTYARD	UV STABLE EXTERIOR ANODIZED STEEL AND ALUMINUM WITH EMBEDDED STAINLESS WIRE IN CENTER OF CUSTON CABLE WITH 10 GAUGE CONDUCTORS INSIDE	POLYCARBONATE GLASS LENS	TEGAN MOUNTING BRACKETS FOR POLE MOUNTING AT VARIOUS HEIGHTS	BLACK	IP65	TEGAN REMOTE POWER SUPPLY WITH 0-10V DIMMING	LED. 500 LUMENS, 2700K,82-85 CRI	5W/HEAD	UNV	DOWNLIGHT;EX5-K-C-DL-AL-BK , EX-PF BLACK POWER FEED, EX-BLK POWER CABLE, REMOTE POWER SUPPLY; Direct Burial IP68 Q-Vault Qset-eLED-1x100w-UNV-24VDC-0-10V OR APPROVED EQUIVALENT	1.PF COM 2.CC ARC 3. P
A	POOL EQUIPMENT ROOM LIGHTING ANTI-CORROSION	FIBERGLASS	ACRYLIC LENS	SURFACE	WHITE	ANTI CORROSION, HAZARDOUS,WET	STANDARD	LED 5000 LUMENS, 3000K	47W	277V	HUBBELL HEM 4 30 ML DFA E U OR APPROVED EQUIVALENT	
В	EXTERIOR WALL MOUNTED SCONCE	SINGLE PIECE DIE-CAST ALUMINUM	LENS	WALL MOUNTED BRACKET	DARK BRONZE	IP66	0-10V DIMMING	LED 1690 LUMENS, 2700K, 90CRI	15W	UNV	LITHONIA WDGE1 LED, WDGE1-LED-P2-27K-90CRI-VF-MVOLT-SRM-DDBTXE OR APPROVED EQUIVALENT	,
NOTES 1 2 3 4 5 6 7	THIS LUMINAIRE SCHEDULE IS NOT O DIMMING CONTROL PROTOCOL (0-10 COORDINATE ALL CEILING TYPES W SPECIFIED MANUFACTURERS ARE A PROVIDE SUBMITTALS THAT INCLUD REMOTE DRIVERS: UL LISTED FOR T PROVIDE COMMISSIONING OF THE L	COMPLETE WITHOUT A COPY OF OVDC, LINE VOLTAGE, DALI, ETC ITH LUMINAIRE LOCATIONS PRIC PPROVED TO SUBMIT BID. INCL THE LUMINAIRE, LAMP AND D HEIR APPLICATION. DRIVERS M IGHTING AND LIGHTING CONTR	F THE PROJECT MANUAI .) COMPATIBLE WITH LIG OR TO ORDERING LUMIN .USION DOES NOT RELIE IMMABLE LED DRIVER IN IARKED AS UL RECOGNI OLS IN ACCORDANCE W	CONTAINING THE EL GHTING CONTROL SYS IAIRES. COORDINATE VE MANUFACTURER I IFORMATION OF EACH ZED COMPONENT BUT ITH CALIFORNIA TITLE	ECTRICAL SPECIFIC/ TEM AS SPECIFIED A INSTALLATION WITH FROM SUPPLYING PF I LUMINAIRE, WITH A I NOT UL LISTED ARE 24 LIGHTING COMM	ATIONS. AND SHOWN ON DRAW I REFLECTED CEILING I RODUCT AS DESCRIBE PPLICABLE OPTIONS C E SUBJECT TO REMOVA ISSIONING REQUIREME	NGS. PLAN. D. LEARLY CHECKED OR NL AND REPLACEMENT ENTS.	HIGHLIGHTED. SUBMITTALS N AT NO COST TO OWNER.	NOT INCLUDING THIS INF	ORMATION WILL BE F	RETURNED AS REJECTED BY THE ENGINEER OF RECORD.	

	LIGHTING CONTROL SEQUENCE OF OPERATIONS
ZONE	CONTROL
PUMP ROOM	ON/OFF SWITCH AT DOOR
EXTERIOR LIGHTING	EXTERIOR LIGHTING CONTROLLED BY ASTRONOMICAL TIMECLOCK TO BE "ON" AT DUSK AND "OFF" AT DAWN. TREE LIGHTS ON SEPARATE ZON OVERRIDE DIMMER SWITCH FOR EACH ZONE IN EXISTING ELECTRICAL ROOM NEXT TO EXISTING CONTROLS. EXSITING CONTROLS TO REMAIN
GENERAL NOTES:	•

1. REFER TO SPECIFICATION SECTION 26 09 43 IN CONJUNCTION WITH THIS SCHEDULE

2. LIGHTING CONTROLS TO COMPLY WITH CALIFORNIA TITLE 24 2019

3. PROVIDE INITIAL START UP TRAINING WITH OWNER AND DESIGN TEAM, AND AN ADDITIONAL VISIT FOR ADJUSTMENTS ONCE AFTER OCCUPANCY. 4. BASIS OF DESIGN N-LIGHT FRESCO PANEL WITH TIMECLOCK

NOTES
ROVIDE ALL NECESSARY APPURTENUNCES FOR A MPLETE SYSTEM. OORDINATE EXACT LOCATION OF REMOTE DRIVER WITH CHITECT PRIOR TO PROCUREMENT. PROVIDE SHOP DRAWINGS

ONE TO STRING LIGHTS. PROVIDE MANUAL

ALS+ REGORD	No to	ESSIONA Y S. 470 22027 9/30/2 RICA CALIFO	THEMEER + MAN
	City of	Kosa Kosa	
	PROJECT 2021-0108 CONTACT Wesley Lau	49 Stevenson Street, Suite 660 San Francisco, CA 94105	TEL 415.489.7240 www.interfaceengineering.com
			REVISION BY
			0. DATE
DWN BY:	CHK BY:	DATE: 6/9/2023	SCALE: N
FINLEY AQUATIC CENTER	PROJECT	E0.2	SCHEDULES - ELECTRICAL
C E0 FILE	ONTR/ CO2 2 50 NO. 2	ACT N 2336 6 OF 2022-	0. 68 -014

### STATE OF CALIFORNIA Indoor Lighting

NRCC-LTI-E										CALIFORNIA	ENE	RGY COMMISSIO
CERTIFICATE OF COMPLIANCE												NRCC-LTI-
This document is used to demon path.	istrate compl	iance with requirement	s in 🛓	<u>110.9</u> , <u>(</u>	<u>110.12(c)</u> , <u>s</u>	<u>130.0</u> , <u>§</u>	<u>130.1, §140.6</u>	and <u>§141.0(b)2</u> for in	ndooi	lighting scopes usin	g th	e prescriptive
Project Name: FINLEY COMMUNITY PAR					IUNITY PARK	Report Pa	age:					(Page 1 of 7
Project Address: 2060 W College Ave D					Date Pre	pared:				_	7/18/202	
A. GENERAL INFORMATION		V		N			à					
01 Project Location (city)		Santa Rosa				04	Total Conditio	ned Floor Area (ft <sup>2</sup> )		174		
02 Climate Zone		2			05	Total Uncondi	tioned Floor Area (ft <sup>2</sup>	)	0			
03 Occupancy Types Within Project (select all that apply):				06	# of Stories (H	f Stories (Habitable Above Grade) 1						
Office		Retail		Wareh	ouse		Hotel/Motel			School		Support Areas
Parking Garage		High-Rise Residential		Reloca	table		Healthcare			Other (Write in)		See Table I
B. PROJECT SCOPE	sustans that	are within the score of	the r	ermit a	polication a	ad are de	emonstrating c	ompliance using the r	resci	intive path outlined	in 6	140.6 or
<u>§141.0(b)</u> 2 for alterations.	systems that t	are within the scope of	une p	errine uj	spireution u	iu ure ue	.monstrating c		1 - 301	prive parti outilitea i	11 2	140.0
Scope of Work			Conditioned Spaces		es	Unconditioned Sp		Spaces				
	01					02		03		04		05
My Project Cor	nsists of (cheo	k all that apply):			Calcu	ulation N	lethod	Area (ft <sup>2</sup> )		Calculation Method	đ	Area (ft <sup>2</sup> )
New Lighting System					Area C	Category	Method	174		Area Category Metho	od	0
New Lighting System - Par	king Garage							1.7				8
Tota	Area of Wo	rk (ft²)					174			0		

**Registration Number:** 

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Version: 2019.1.003 Schema Version: rev 20200601

Registration Date/Time:

Registration Provider: Energysoft Report Generated: 2022-07-18 10:54:00

### STATE OF CALIFORNIA Indo

Indoor Lighting			
NRCC-LTI-E			CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	FINLEY COMMUNITY PARK	eport Page:	(Page 2 of 7)
Project Address:	2060 W College Ave D	ate Prepared:	7/18/2022

N. 22	00201	VOT COIVIT LI	UI COMFLIES	with Exception	arco	onaitions reje	er to	lable D. for gui	aance.			
		Allowed Lighting Power per §140.6(b) (Watts)							Adjusted Lighting Power per §140.6(a) (Watts)			
Lighting in	01	02	03	04		05		06	07		08	09
conditioned and			Area		1		1		Adjustments			
spaces must not be combined for compliance per §140.6(b)1	Complete Building §140.6(c)1	Area Category <u>§140.6(c)2</u>	Category Additional §140.6(c)2G (+)	Tailored <u>§140.6(c)3</u> ( +)	=	Total Allowed (Watts)	2	Total Designed (Watts)	PAF Lighting Control Credits <u>§140.6(a)2</u> (-)	-	Total Adjusted (Watts) *Includes Adjustments	05 must be >= 08 <u>§140.6</u>
	(See Table I)	(See Table I)	(See Table J)	(See Table K)	5		(See Table F)	(See Table P)				
Conditioned		69.6	35		=	104	2	94	0	=	94	COMPLIES
Unconditioned					=		Z			=		
	*							Controls C	ompliance (See	Tab	le H for Details)	COMPLIES
						Rated	Pow	er Reduction C	ompliance (See	Tab	le Q for Details)	

D. EXCEPTIONAL CONDITIONS This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. INDOOR LIG	HTING FIXTURE SCHEDU	JLE								
This table includ	es all permanent designed	lighting and all p	ortable lighting	in offices.		0.				
Designed Watta	ge: Conditioned Spaces					117				
01	02	03	04	05	06	07	08	09	1	0
Name or Item	Complete Luminaire	Modular	Small	Watts per	How is Wattage	Total Number	Excluded per	Design Watts	Field In	spector
Tag	Description	(Track) Fixture	Color Change <sup>1</sup>	luminaire <sup>2</sup>	determined	of Luminaires	§140.6(a)3	Design watts	Pass	Fail
A	A	No	No	47	Mfr. Spec	2	No	94		
1 2.2			k		Total Design	ed Watts: CONE	ITIONED SPACES	94		· · · · ·

**Registration Number:** 

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20200601 Registration Provider: Energysoft

Report Generated: 2022-07-18 10:54:00

STATE OF CALIFORNIA Indoor Lighting

indoor Lighting			
NRCC-LTI-E			CALIFORNIA ENERGY COMMISSI
CERTIFICATE OF COMPLIANCE			NRCC-L
Project Name:	FINLEY COMMUNITY PARK	Report Page:	(Page 3 o
Project Address:	2060 W College Ave	Date Prepared:	7/18/2

F. INDOOR LIGHTING FIXTURE SCHEDULE <sup>1</sup>FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per <u>§140.6(a)4B</u> is adjusted to be 75% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05. <sup>2</sup>Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per <u>§130.0(c)</u> Wattage used must be the maximum rated for the luminaire, not

the lamp. G. MODULAR LIGHTING SYSTEMS This section does not apply to this project H. INDOOR LIGHTING CONTROLS (Not including PAFs) This table includes lighting controls for conditioned and unconditioned spaces. When a control having a \* is shown, the notes section of this table provides more detail on how compliance is achieved. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank. **Building Level Controls** 03 01 02 Field Inspector Mandatory Demand Response §110.12(c) Shut-off controls §130.1(c) Pass Fail Not Required <= 10,000 SF Whole Building Auto Time Switch Area Level Controls 04 08 09 10 Complete Building or Area Multi-Leve ea Contro Shut-Off Controls Field Inspector lit Controls Daylighting Systems Area Description **Category Primary Function** §130.1(a) §130.1(c) aylighting Area §130.1(b) §140.6(d) §140.6(a)1 130.1(d Pass Fail Electrical Mechancial Manual Mechanical Room Dimmer Exempt\* Exempt\* Exempt\* No Telephone Room ON/OFF \*NOTES: Controls with a \* require a note in the space below explaining how compliance is achieved EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 Plan Sheet Showing Daylit Zones: to <u>§130.1(d)2</u> Mechanical Room No daylighting as there are no windows; Electrical panels excempt autoshut off. **Registration Number:** Registration Date/Time: **Registration Provider: Energysoft** CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2022-07-18 10:54:00 Schema Version: rev 20200601

ATE OF CALIFORNIA	
adoor Lighting	

								CALIFORNIA	ENERGY CO	MMISSION
CERTIFICATE OF COMPLIAN	CE									NRCC-LTI-F
Project Name:			FINLEY COMM	UNITY PARK	Report Page:				(	Page 4 of 7
Project Address:			2060 W	/ College Ave	Date Prepared:					7/18/2022
					0.05					
Each area complying usir §140.6(c) or adjustment:	ng the Complet s per <u>§140.6(a</u>	te Building or Area Cat are being used .	tegory Methods per	<u>§140.6(b)</u> ai	re included in th	nis table. Colun	nn 06 indicates if additio	nal lighting po	wer allowan	ces per
Conditioned Spaces			03	1	03	04	OF		06	
01		Complete Deilding	UZ		US Density	04		Additional Al		diuctmont
Area Description	Area Description Complete Building of Fund		or Area Category Primary		(W/ft <sup>2</sup> )	Area (ft <sup>2</sup> )	(Watts)	Area Category PAF		PAF
Mechanical Room Electrical Mechan		ncial Telephone Roo	m	0.4	174	69.6	Yes No		No	
					TOTALS:	174	69.6	See Table	es J, or P for	detail
J. ADDITIONAL ALLOW	IANCE: AREA	CATEGORY METHO	D QUALIFYING LIC	GHTING SYS	<b>TEM</b> d have been inc	cluded in this to	able to calculate the add	itional allowar	nce per <u>Table</u>	<u>2 140.6-C</u> .
Conditioned Spaces										
01		02	03	04	05	06	07	08	09	10
Area Description	Primary Function Area		Applicable Qualifying Lighting System from Table 140.6-C	Allowed Density (W/ or W/If or W/unit)	Ltg Area, Length or ATM/Mirro (ft <sup>2</sup> , If or #	Extra Allowance (Watts)	Luminaire Name or Ite Tag	m Watts per Luminaire	Number of Luminaire s	Total Design Watts
Mechanical Room	Electrical N	lechancial Telephone Room	DetailedTaskLighti ng	0.20	174	34.8	A	47	2	94
Total Design Watts	Calculated	Allowance (Watts):	Total Additional Allowance for this area:		1.	11				

### STATE OF CALIFORNIA Indoor Lighting

**Registration Number:** 

STATE OF CALIFORNIA

NRCC-LTO-E

Project Name:

Project Address:

Outdoor Lighting

02 Climate Zone

**B. PROJECT SCOPE** 

§141.0(b)2L for alterations. My Project Consists of:

New Lighting System

Altered Lighting System

% of Existing Luminaires Being Altered<sup>1</sup>

□ < 10% □ >= 10% and < 50% □ >= 50%

CERTIFICATE OF COMPLIANC

A. GENERAL INFORMATION 01 Project Location (city)

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Santa Rosa

LZ-0: Very Low - Undeveloped Parkland LZ-2: Moderate - Rural Areas

LZ-1: Low - Developed Parkland Z-3: Moderately High - Urban Areas

Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.

NRCC-LTI	-E	
CERTIFI	CATE OF COMPLIANCE	
Project	Name: FINLEY COMMUNITY PA	RK Report P
Project	Address: 2060 W College A	ve Date Pre
DOCU	MENTATION AUTHOR'S DECLARATION STATEMENT	
certif	iv that this Certificate of Compliance documentation is accurate and comp	olete.
Docume	ntation Author Name:	Documen
Wesley	/ Lau	
Company	y:	Signature
nterfac	ce Engineering	2022-07
Address: 1999 H	larrison Street, Suite 550	CEA/ HER E22027
City/Stat Daklan	e/Zip: d CA 94612	Phone: 415-489
RESPC	INSIBLE PERSON'S DECLARATION STATEMENT	
certify t	the following under penalty of perjury, under the laws of the State of California:	
1.	The information provided on this Certificate of Compliance is true and correct.	
2.	I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the b	uilding design
3.	The energy features and performance specifications, materials, components, and manufactured dev of Title 24, Part 1 and Part 6 of the California Code of Regulations.	ices for the b
4.	The building design features or system design features identified on this Certificate of Compliance a plans and specifications submitted to the enforcement agency for approval with this building permit	re consistent t application.
5.	I will ensure that a completed signed copy of this Certificate of Compliance shall be made available inspections. I understand that a completed signed copy of this Certificate of Compliance is required	with the build to be include
Responsi	ible Designer Name:	Responsit
Wesley	/ Lau	
Compani Interfa	y: ce Engineering	Date Sign 2022-07
Address: 1999 H	larrison Street, Suite 550	License: E22027
City/Stat Daklan	e/Zip: d CA 94612	Phone: 415-489

# **Registration Number:**

94

onditioned Spaces

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

his section does not apply to this project

otal Additional Allowance (Watts) CONDITIONED SPACES

34.8

34.8

34.8

Registration Date/Time: Report Version: 2019.1.003

Schema Version: rev 20200601

Registration Provider: Energysoft Report Generated: 2022-07-18 10:54:00

CALIFORNIA ENERGY COMMISSION

### Indoor Lighting NRCC-LTI-E

STATE OF CALIFORNIA

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	FINLEY COMMUNITY PARK	Report Page:	(Page 5 of 7)
Project Address:	2060 W College Ave	Date Prepared:	7/18/2022
K. TAILORED METHOD GENERAL LIGHTING P	OWER ALLOWANCE		
This section does not apply to this project.			
L. ADDITIONAL LIGHTING ALLOWANCE: TAIL	ORED WALL DISPLAY		
This section does not apply to this project.			
M. ADDITIONAL LIGHTING ALLOWANCE: TAI	LORED FLOOR AND TASK LIGHTING		
This section does not apply to this project.			
N. ADDITIONAL LIGHTING ALLOWANCE: TAIL	ORED ORNAMENTAL/SPECIAL EFFECT	s	
This section does not apply to this project.			
O. ADDITIONAL LIGHTING ALLOWANCE: TAIL	ORED VERY VALUABLE MERCHANDISE	l.	
This section does not apply to this project.			
P. POWER ADJUSTMENT: LIGHTING CONTRO	L CREDIT (POWER ADJUSTMENT FACT	OR (PAF))	
This section does not apply to this project.			
Q. RATED POWER REDUCTION COMPLIANCE	FOR ALTERATIONS		
This section does not apply to this project.			
R. 80% LIGHTING POWER FOR ALL ALTERATI	ONS - CONTROLS EXCEPTIONS		
This section does not apply to this project.			
S. DAYLIGHT DESIGN POWER ADJUSTMENT	FACTOR (PAF)		
This section does not apply to this project.			

Registration Provider: Energysoft **Registration Number:** Report Generated: 2022-07-18 10:54:00

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

**Registration Number:** 

Report Version: 2019.1.003

Schema Version: rev 20200601

Registration Date/Time:

STATE OF CALIFORNIA Indoor Lighting CALIFORNIA ENERGY COMMISSION NRCC-LTI-E CERTIFICATE OF COMPLIANC NRCC-LTI-E FINLEY COMMUNITY PARK Report Page: oject Name: (Page 6 of 2060 W College Ave Date Prepared Project Address: 7/18/202 T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION ections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019\_compliance\_documents/Nonresidential\_Documents/NRCI/ Field Inspector Yes No Form/Title Pass Fail • NRCI-LTI-01-E - Must be submitted for all buildings NRCI-LTI-02-E- Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be . ecognized for compliance. NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a 0 . multipurpose room or a theater to be recognized for compliance 100 NRCI-LTI-05-E- Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance. INRCI-LTI-06-E- Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE elections have been made based on information provided in this document. If any selection have been changed by the permit applicant, an explanation should be included in Table E.

Vac	No	Form /Titlo	Field In	spector
ies	NO	Pointy nice	Pass	Fail
•	0	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.		
0	•	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.		
0	•	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.		
0	•	NRCA-LTI-05-A Must be submitted for institutional tuning power adjustment factor (PAF)		

### CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance STATE OF CALIFORNIA **Outdoor Lighting** NRCC-LTO-E CERTIFICATE OF COMPLIANCE

FINLEY COMMUNITY PARK Report roject Name: 2060 W College Ave Date Pr **Project Addres** C. COMPLIANCE RESULTS Results in this table are automatically calculated from data input and calculations in Tables F throug to Table D. Exceptional Conditions for guidance or see applicable Table referenced below. Calculations of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)2L 01 02 03 04 05 General Per Sales Per Specific Hardscape Ornamental Application Frontage Area §140.7(d)2 Allowance §140.7(d)2 §140.7(d)2 §140.7(d)2 §140.7(d)1 (See Table L) (See Table J) (See Table K) (See Table M) See Table I) 775.85

**Cutoff Compliance (See Table G for Details** 

**Controls Compliance (See Table H for Detail** 

![](_page_56_Figure_42.jpeg)

This table is auto-filled with uneditable comments because of selections made or data entered in tab

E. ADDITIONAL REMARKS This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

**Registration Number:** 

Report Version: 2019.1.003

**Registration Provider: Energysoft** Report Generated: 2022-07-18 10:54:00

**Registration Number:** CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20200601

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Date/Time: Schema Version: rev 20200601

NRCC-LTI-
Page: (Page 7 of 7
epared: 7/18/202
ntation Author Signature:
2 Date: 00 7-18
ts Certification Identification (if applicable):
9-7240
n or system design identified on this Certificate of Compliance (responsible designer) suilding design or system design identified on this Certificate of Compliance conform to the requirements
with the information provided on other applicable compliance documents, worksheets, calculations,
ding permit(s) issued for the building, and made available to the enforcement agency for all applicable id with the documentation the builder provides to the building owner at occupancy.
ble Designer Signature:
ned: UV
7-18

Registration Date/Time: Report Version: 2019.1.003

Schema Version: rev 20200601

04

CALIFORNIA ENERGY COMMISSION NRCC-LTO-E FINLEY COMMUNITY PARK Report Page: (Page 1 of 7) 2060 W College Ave Date Prepared: 7/18/2022 04 Total Illuminated Hardscape Area (ft<sup>2</sup>) 17034 03 Outdoor Lighting Zone per Title 24 Part 1 §10.114 or as designated by Authority Having Jurisdiction (AHJ LZ-4: High - Must be reviewed by CA Energy Commission for Approval This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in <u>§140.7</u> or Must Comply with Allowances from §140.7 Is your alteration increasing the connected lighting load (Watts)? O Yes No 05 Sum Total of Luminaires Being Added or Altered **Calculation Method** 

<sup>1</sup> FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

Registration Date/Time: Report Version: 2019.1.003

Schema Version: rev 20200601

**Registration Provider: Energysoft** Report Generated: 2022-07-18 10:54:00

**Registration Provider: Energysoft** 

Report Generated: 2022-07-18 10:54:00

					NRCC-LTO-I
Page:					(Page 2 of 7
epared:					7/18/2022
ih I. Note: If any	cell c	on this table says "C	COMPL	IES with Exception	al Conditions" refer
			Cor	npliance Results	
06		07	П	08	09
Existing Power Allowance <u>§141.0(b)2L</u> (See Table N)	=	Total Allowed (Watts)	2	Total Actual (Watts)	07 must be >= 08
	=	775.85	2	465	COMPLIES
					N/A
				COMPLIES with Ex	ceptional Conditions
	· · · · · · ·		M =		
bles throughout	the f	orm.			

	Registration Provider: Energysoft	
Report	Generated: 2022-07-18 10:54:00	

No \$22027 5  $\boldsymbol{\mathcal{O}}$ 0 R g ant 0 ty • —  $\mathbf{O}$ шо υz ⋖∼ ш. ш ᄰ᠃ ш<sup>Z</sup> ں 🛏 Ζz — ш 6/9 BY: B≺ μË DAT MM CHK FINLEY AQUATIC CENTER SPRAY GROUND AND RENOVATION PROJECT A A CTRIC/ ЭШ ЫШ 24 ш CONTRACT NO. C02336 E03 57 OF 68

FILE NO. 2022-014

![](_page_57_Picture_0.jpeg)

TATE OF CALIFORNIA	
Outdoor Lighting	

### NRCC-LTO-E CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTO-E FINLEY COMMUNITY PARK Report Page: 2060 W College Ave Date Prepared: Project Name: (Page 3 of 7) Project Address: 7/18/2022

F. OUTDOOR LI	GHTING FIXTURE SC	HEDULE									
For new or altere covered by the p replacement lum	ed lighting systems dem ermit application are in inaires being installed	nonstrating complian icluded in the Table L as part of the project	ce with <u>§140.7</u> below. For altered t scope are includ	all new luminair d lighting syster ded (ie, existing	res being installe ns using the Exis luminaires remo	ed and any exis ting Power me nining or existir	ting luminaires r thod per <u>§141.0</u> ng luminaires bel	emaining or bei ( <u>b)2L</u> only new ing moved are n	ing moved withi luminaires bein ot included).	n the sp g install	aces ed and
Designed Wattag	ge:		_			_				-	
01	02		03	04	05	06	07	08	09	1	0
Name or Item	Complete Lumina	ire Description	Watts per	How is Wattage	Total number	Luminaire	Excluded per	Design Watts	Cutoff Req. > 6,200 initial	Fie Inspe	eld ector
Tag			luminane	determined	Turrinaires	Status	9140.7[8]		§130.2(b) 4	Pass	Fail
В	В	🗆 Linear	15	Mfr. Spec	1	New		15	NA: < 6200 lumens		
S1	<b>S1</b>	🗆 Linear	5	Mfr. Spec	40	1 New		200	NA: < 6200 1 umens		
S2	S2	🗆 Linear	10	Mfr. Spec	25	New		250	NA: < 6200 lumens		
		<u>^</u>		<u>.</u>		Tota	I Design Watts:	465			

### \* NOTES: Selections with a \* require a note in the space below explaining how compliance is achieved. EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b)

<sup>1</sup>FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c) <sup>2</sup> For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires. <sup>3</sup> Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.

<sup>4</sup> Compliance with mandatory cutoff requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by <u>\$130.2(b)</u>

### G. CUTOFF REQUIREMENTS (BUG) This section does not apply to this project.

**Registration Number:** 

Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20200601 **Registration Provider: Energysoft** 

Report Generated: 2022-07-18 10:54:00

### STATE OF CALIFORNIA **Outdoor Lighting**

Project Address:

Outdoor

**Registration Number:** 

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

NRCC-LTO-E CERTIFICATE OF COMPLIANCE Project Name:

FINLEY COMMUNITY PARK Report Page: 2060 W College Ave Date Prepared:

NRCC-LTO-E (Page 4 of 7) 7/18/2022

CALIFORNIA ENERGY COMMISSION

**Registration Provider: Energysoft** 

Report Generated: 2022-07-18 10:54:00

# H. OUTDOOR LIGHTING CONTROLS

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application. When an option having a \* is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank. Mandatory Controls

01	02	03	04	C	)5
Area Description	Shut-Off \$130.2(c)1	Auto-Schedule §130.2(c)2	Motion Sensor	Field In	spector
	113012(0)1	313012[0]2	3130.2(0)3	Pass	Fail
Outdoor	Astronomical Timer	Yes	Exempt*		

Exception 1 to Section 130.2(c)3; Less than 40W per fixture.

### STATE OF CALIFORNIA

ENTIFICATE	OF COMPLIA	VCE		NRCC-LTC
roject Name	9:	FINLEY COMMUNITY PARK Report Page:		(Page 6 of
roject Addr	ess:	2060 W College Ave Date Prepared:		7/18/20
. EXISTIN	G CONDITI	DNS POWER ALLOWANCE (alterations only)		
his section	does not ap	ply to this project.		
. DECLAR	ATION OF	REQUIRED CERTIFICATES OF INSTALLATION		
elections h dditional F tps://www	ave been mi lemarks. The v.energy.ca.	de based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be se documents must be provided to the building inspector during construction and can be found online at gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/	e included in To	able E.
Yes	No	Form/Title	Field In	spector
			Pass	Fail
•		NRCI-LTO-01-E - Must be submitted for all buildings		
•	0	NRCI-LTO-02-E- Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.		
DECLAR	ATION OF R	EQUIRED CERTIFICATES OF ACCEPTANCE		
	ave been mi lemarks. The TCP). For mi	de based on information provided in this document. If any selection have been changed by permit applicant, an explanation should bu se documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Tech pre information visit: http://www.energy.ca.gov/title24/attcp/providers.html	e included in To hnician Certific	able E. ation
elections h dditional R rovider (A1		e colo esta c	Field In	spector
elections h dditional F rovider (Al Yes	No	Form/life	Pass	Fail
elections h dditional F ovider (A1 Yes	No	Form/ litie	1 4 5 5	1

Registration Number:	Registration Date/Time:
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance	Report Version: 2019.1.003 Schema Version: rev 20200601

### STATE OF CALIFORNIA **Outdoor Lighting**

**Registration Number:** 

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

CERTIFICATE OF COMPLIANCE

NRCC-LTO-E

Project	Name:	FINLEY COMMUNITY PARK	Report Page:
Project	Address:	2060 W College Ave	Date Prepared:
DOCU	MENTATION AUTHOR'S DECLARATION STATE	MENT	
l certi	fy that this Certificate of Compliance docum	entation is accurate and comple	te.
Docume Wesley	ntation Author Name: / Lau		Documentation Aut
<sup>Compan</sup> Interfa	γ: ce Engineering		Signature Date: 2022-07-18
Address 1999 H	larrison Street, Suite 550		CEA/ HERS Certificat E22027
City/Stat Oaklar	re/Zip: id CA 94612		Phone: 415-489-7240
RESPC I certify 1. 2. 3. 4. 5. Respons	INSIBLE PERSON'S DECLARATION STATEMENT the following under penalty of perjury, under the laws of the S The information provided on this Certificate of Compliance I am eligible under Division 3 of the Business and Professic The energy features and performance specifications, mate of Title 24, Part 1 and Part 6 of the California Code of Reg. The building design features or system design features ide plans and specifications submitted to the enforcement age I will ensure that a completed signed copy of the Designer Name:	tate of California: a is true and correct. ms Code to accept responsibility for the build rials, components, and manufactured device lations. ntified on this Certificate of Compliance are c arcy for approval with this building permit ap te of Compliance shall be made available with this Certificate of Compliance is required to l	ling design or system s for the building des consistent with the in plication. n the building permit be included with the Responsible Designe
Wesley	/ Lau		Date Signed:
Interfa	ce Engineering		2022-07-18
Address 1999 H	larrison Street, Suite 550		License: E22027
City/Stat Oaklan	e/Zip: d CA 94612		Phone: 415-489-7240

TATE OF CALIFORNIA											
Dutdoor Lighting											
IRCC-LTO-E										CALIFORNIA ENER	GY COMMISSION
CERTIFICATE OF COMPLIANCE											NRCC-LTO-E
Project Name:		FINLEY COMMUNIT	TY PAR	RK Report P	age:						(Page 5 of 7)
Project Address:		2060 W Colle	ege Av	ve Date Pre	pared:						7/18/2022
LIGHTING DOWED ALLOWANCE Law											
. LIGHTING POWER ALLOWANCE (per s	(140.7)		T								
This table includes areas using allowance ca	Iculations per <u>§140.7</u> . C	Seneral Hardscape	70-						01		
Allowance is per <u>Table 140.7-A</u> while "Use it	or lose it "Allowances a expand sections for us	are per <u>Table 140.7</u> Per input, Lumingin	-B .	🛛 Gen	eral	"Use it	or lose it	t" Allow	ance (select	all that apply) (select	all that apply)
t or lose it" allowance.	allowances shall not qu	alify for another "	Use	Hardsca Allowa Table I (b	ape nce elow)	Applic	Per ation	Sale	es Frontage able K	Ornamental     Table L	Per Specific Area
Calculated Conoral Hardscano Lighting Powe	er Allowance per Table	14074/17018	1)	Tuble 1 15	ciony		16.1				
Laiculated General Hardscape Lighting Powe	and ance per table	140.7-A (L2 0, 1 &	4)								
This section does not apply to this project.	as Alleuranas ana Tabla	14074(17783)									
calculated General Hardscape Lighting Powe	Pr Allowance per Table	140.7-A (LZ Z & 3)		or		00	0	7	00	0	1. 10
02	05	04	*****	05	(0)0/0)	06	07	/ Acces 14		9	10
		Area wa	ttage	Allowance				Area w	attage Anow	ance (AVVA)	Total General
Area Description	Surface Type	Illuminated Area (ft <sup>2</sup> )	Al Densi	llowed ity (W/ft²)	Area A (W	llowance /atts)	Perim Lengt	neter h (lf)	Allowed Density (W	/If) Linear Allowance (Watts)	AWA + LWA (Watts)
Outdoor	Asphalt	17034	Į	0.03	42	25.85	0	)	0.4	0	425.85
						1	Initial W	/attage /	Allowance fo	r Entire Site (Watts):	350
							Tota	al Gener	ral Hardscape	e Allowance (Watts):	775.85
. LIGHTING ALLOWANCE: PER APPLICA	TION										
his section does not apply to this project.											
	TAGE										
C. LIGHTING ALLOWANCE: SALES FROM	IAGE										
his section does not apply to this project.											
LIGHTING ALLOWANCE: ORNAMENTA	AL.										
This section does not apply to this project.											
M. LIGHTING ALLOWANCE: PER SPECIFI	C AREA										
This section does not apply to this project											

Registration Date/Time:

Report Version: 2019.1.003

Schema Version: rev 20200601

**Registration Number:** 

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20200601

**Registration Provider: Energysoft** Report Generated: 2022-07-18 10:54:00

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C 4 NO.			HC NHC				PROJECT 2021-0108		City of	E×
02 50 2	IR/						CONTACT Wesley Lau			OFI LE p:0
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6 )F 2-		E0.4	UAIE: 0/9/2023				49 stevenson street, suite t San Francisco, CA 94105	000		7 0/2 0/2
68 •01	<b>UL</b> 0.	TLE 24 - ELECTRICAL	SCALE.				TEL 415.489.7240 www.interfaceengineering.com			THE SHEET + B
4			OCALL.	NO.	DATE	REVISION	BY			

CALIFORNIA ENERGY COMMISSION NRCC-LTO-E FINLEY COMMUNITY PARK Report Page: (Page 7 of 7) 7/18/2022 pared: tation Author Signature: / 7-18 RS Certification Identification (if applicable): 39-7240 sign or system design identified on this Certificate of Compliance (responsible designer) building design or system design identified on this Certificate of Compliance conform to the requirer ent with the information provided on other applicable compliance documents, worksheets, calculations, . ding permit(s) issued for the building, and made available to the enforcement agency for all applicable ed with the documentation the builder provides to the building owner at occupancy. ble Designer Signature: Werly In 7-18

Registration Date/Time:

Report Version: 2019.1.003

Schema Version: rev 20200601

**Registration Provider: Energysoft** Report Generated: 2022-07-18 10:54:00

**Registration Provider: Energysoft** 

Report Generated: 2022-07-18 10:54:00

![](_page_58_Figure_0.jpeg)

![](_page_59_Figure_0.jpeg)

# **GENERAL SHEET NOTES**

- A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF RECEPTACLES AND ELECTRICAL DEVICES WITH ARCHITECT PRIOR TO INSTALLATION.
- B. COORDINATE EXACT POWER REQUIREMENTS OF SPLASH PAD EQUIPMENT WITH MANUFACTURER AND SPLASH PAD SHOP DRAWINGS PRIOR TO INSTALLATION.
- C. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS OF PLUMBING EQUIPMENT WITH DIVISION 22 PRIOR TO INSTALLATION.
- COORDINATE EXACT LOCATION AND POWER REQUIREMENTS OF HVAC D. UNITS WITH DIVISION 23 PRIOR TO INSTALLATION.
- E. COORDINATE REQUIREMENTS WITH "POOL EQUIPMENT ELECTRICAL SCHEMATIC" ON 5/AQ9-1.

# ○ SHEET KEYNOTES

TRANSFORMER SHALL BE WALL-MOUNTED. PROVIDE WALL-MOUNTED 1. BRACKET BY MANUFACTURER EATON WMB05 OR EQUAL. REFER TO STRUCTURAL DETAIL 12/S1.1 FOR MORE INFORMATION.

# EQUIPMENT CONNECTION SCHEDULE

J	VOLTS / PHASE			CONNECTION TYPE	WIRE / CONDUIT	CIRCUIT	NOTES
PUMP					203		1
ER	120/1	5.0 A		DIRECT	202	1LF-1.	
र	120/1	390.0 W		DIRECT	202	1LF-3.	
ROLLER	120/1	10.0 A		RECEPTACLE	202	1LF-5.	
N PUMP	480/3	5.0 HF	ס	DIRECT	203	1HF-7,9,11.	
UMP	480/3	5.0 HF	ס	DIRECT	203	1HF-13,15,17.	
ANK	120/1	500.0 W		RECEPTACLE	202	1LF-2.	
E TANK	120/1	500.0 W		RECEPTACLE	202	1LF-4.	
١	120/1	53.0 W		DIRECT	202	1LF-6.	
IP					203		1
DLLER	120/1	15.0 A		RECEPTACLE	202	1LF-8.	
LER	120/1	10.0 A		RECEPTACLE	202	1LF-11.	
2	120/1	10 A		DIRECT	202	11 F-12	

A. THE ABOVE INFORMATION IS FOR A SPECIFIC MANUFACTURER. ACTUAL MANUFACTURER FOR THE EQUIPMENT MAY BE DIFFERENT. COORDINATE WITH EQUIPMENT SUBMITTALS FOR LOADS AND OVER CURRENT PROTECTION REQUIREMENTS PRIOR TO INTALLATION OF WIRING.

B. INCLUDE THERMAL OVERLOAD PROTECTION WITH MANUAL MOTOR STARTERS.

PROVIDE DISCONNECTING MEANS FOR EACH ITEM OF EQUIPMENT LISTED IN THE SCHEDULE ABOVE, EXCEPT AS SPECIFICALLY NOTED OTHERWISE IN SCHEDULE NOTES, BELOW.

![](_page_59_Picture_20.jpeg)

	Panel '1HF'	277/480 MINIMUI	V, 3 F M 22	Ph., 4 W.; KAIC	100A E	3us w	ith 60A	Main Circ	uit Breaker S	2021 urface Mounted Panelboard	1-0108
Ckt.		Load	b	C.B.				C.B.	Load		Ckt.
No.	Description / Location	(VA) Ty	ype	A/Pole	Note	Ph.	Note	A/Pole	(VA) Type	Description / Location	No.
1	PANEL '1LF' VIA XFMR 'X1LF'	3,440	S	30/3		Α		20/1		SPARE	2
3		1,630	S	-		В		20/1		SPARE	4
5		2,573	S	-		С		20/1		SPARE	6
7	VFD - RECIRCULATION PUMP (06A)	1,243	М	20/3		Α		20/1		SPARE	8
9		1,243	М	-		В		20/1		SPARE	10
11	-	1,243	М	-		С		20/1		SPARE	12
13	VFD - FEATURE PUMP (06B)	1,243	М	20/3		Α		20/1		SPARE	14
15	A	1,243	М	-		В		20/1		SPARE	16
17	- /1	1,243	M	-		С		20/1		SPARE	18
19		250	L	)20/1		Α		20/1		SPARE	20
21	LIGHTS	<sup>-</sup> <u>109</u>	$\mathcal{L}^{-}$	20/1		В		20/1		SPARE	22
23	SPARE			20/1		С		20/1		SPARE	24
Total	Connected Load: Ph. A	6,176	VA	22	Amps				Panel Con	nected Load: 7.8 KVA 9.4 Amps	
Total	Connected Load: Ph. B	4,225	VA	15	Amps			5	Sub-Fed Con	nected Load: 7.6 KVA 9.2 Amps	
Total	Connected Load: Ph. C	5,059	VA	18	Amps				Total De	mand Load: 16.5 KVA 19.9 Amps	
Notes	· · · · · · · · · · · · · · · · · · ·								Accessories	· · · · · · · · · · · · · · · · · · ·	-
1.											1
2.											
3.											
4.											
5.											

l	Panel '1LF'	120/208\ MINIMUN	/, 3 F M 10I	Ph., 4 W.; KAIC	100A E	3us w	ith 60A	Main Circ	uit Breake	er Su	rface Mounted	Panelboard	202	1-0108
Ckt.		Load	1	C.B.				C.B.	Load					Ckt.
No.	Description / Location	(VA) Ty	/pe	A/Pole	Note	Ph.	Note	A/Pole	(VA) Ty	/pe	Description / L	ocation		No.
1	GAS POOL HEATER (03)	600	G	20/1		Α		20/1	500	G	ACID STORA	GE TANK (11)		2
3	UV SANTITIZER (04)	390	G	20/1		В		20/1	500	G	CHLORINE S	TORAGE TAN	K (12)	4
5	AUTOMATED CONTROLLER (05)	1,200	G	20/1		С		20/1	53	М	EXHAUST FA	N (14)		6
7	OUTDOOR RECEPTACLES	540	R	20/1		Α		20/1	1,800	R	FEATURE CO	ONTROLLER (3	2)	8
9	INDOOR RECEPTACLES	540	R	20/1		В		20/1	200	L	LIGHTS			10
11	WTSBO CONTROLLER (45)	1,200	G	20/1		С		20/1	120	G	TRAP PRIME	R (TP-1)		12
13	SPARE			20/1		Α		20/1			SPARE			14
15	SPARE			20/1		В		20/1			SPARE			16
17	SPARE			20/1		С		20/1			SPARE			18
19	SPARE			20/1		Α		20/1			SPARE			20
21	SPARE			20/1		В		20/1			SPARE			22
23	SPARE			20/1		С		20/1			SPARE			24
Total	Connected Load: Ph. A	3,440	VA	29	Amps				Panel (	Conn	ected Load:	7.6 KVA	21.2 Amps	
Total	Connected Load: Ph. B	1,630	VA	14	Amps			9	Sub-Fed (	Conn	ected Load:	0.0 KVA	<sub>0.0</sub> Amps	
Total	Connected Load: Ph. C	2,573	VA	21	Amps				Tota	l Der	nand Load:	7.7 <b>KVA</b>	<sub>21.4</sub> Amps	
Notes	:								Accesso	ries:				
1.														
2.														
3.														
4.														
5.														

![](_page_60_Figure_2.jpeg)

				_						
	(E) Denal '44E'	077(400)(							20	21-0108
		277/4800,	3 Ph., 4 vv.;	150A B	us w	ith 125#	Main Cir	cuit Breaker S	Surface Mounted Panelboard	
Ckt.		Load	C.B.				C.B.	Load		Ckt.
No.	Description / Location	(VA) Type	€ A/Pole	Note	Ph	Note	A/Pole	(VA) Type	Description / Location	No.
1	(E) EXT. BLDG. LTG	600 1	L 20/1		Α		20/1	3,800 L	(E) MISC LTG	2
3	(E) SPARE		20/1		в		20/1	2,200 L	(E) MISC LTG	4
5	(E) SPARE		20/1		С		20/1	2,240 L	(E) MENS LOCKER RM LTS	6
7	(E) SPORTS FLOODLIGHTS	8,050	L 40/3		Α		20/1		(E) SPARE	8
9	-	6,440 I			В		20/1		(E) SPARE	10
11	-	8,050	L -		С		20/1		(E) SPARE	12
13	(E) SPARE		20/1		Α	1	60/3	6,156 S	PANEL '1HF'	14
15	(E) SPARE		20/1		В		-	4,225 S	-	16
17	(E) SPARE		20/1		С		-	5,059 S	-	18
19	(E) SPACE				Α		60/3	12,500 G	(E) 'XFMR 'T5'	20
21	(E) SPACE				В		-	12,500 G	-	22
23	(E) SPACE				С		-	12,500 G	-	24
Tota	Connected Load: Ph. A	31,106 V	A 112	2 Amps				Panel Conr	nected Load: 68.9 KVA 82.8 Amps	
Tota	Connected Load: Ph. B	25,365 V	A 92	<u>2</u> Amps			:	Sub-Fed Conr	nected Load: 15.4 KVA 18.6 Amps	
Tota	Connected Load: Ph. C	27,849 V	A 100	) Amps				Total De	mand Load: 93.2 KVA 112.1 Amps	
Note	S:		-	-				Accessories		
1	PROVIDE NEW CIRCUIT BREAKER TO MAT	CH MANUFAC	TER AND A	IC RAT	ING (	OF EXIS	STING PA	NEL.		
2										
3										
4										

![](_page_60_Figure_16.jpeg)

12-MONTH PERIOD HIGHEST DEMAND PER UTILITY BILLS (SEPTEMBER 2019): 97.44 KVA

PANEL

'1LF'

TOTAL NEW LOAD: 97.44 KVA \* 125% + 15.3 KVA = 137.1 KVA

EXISTING MAIN SWITCHBOARD 'MSB' HAS ADEQUATE CAPACITY TO SERVE THE NEW LOAD

MAIN SWITCHBOARD 'MSB' 1200A, 277/480V, 3Ø, 4W

# $\bigcirc$ SHEET KEYNOTES

1. PROVIDE GROUNDING BUS BAR AND CONNECTIONS TO NEW GROUNDING ELECTRODE SYSTEM AS SHOWN.

# FEEDER SCHEDULE

# Key

303

604X

1004

 $\overline{}$ 

- A, C, S, X A = Aluminum
  - C = Conduit only
  - S = Service secondary X = Separately derived system

3 #10 CU, 1 #10 CU GND., IN 3/4" C.

4 #4 CU, 1 #8 CU GND., IN 1-1/4" C.

4 #2 CU, 1 #8 CU GND., IN 2" C.

FILF	FINLEY AQUATIC CENTER	DWN BY:					BEGG
E5							
C 51 10.						City of	Ex
02 6 2							
23 51 20					CONTACT WESTERY LAU		TF C
53 ()2	<b>L3.</b>	DATT. 6 /0 /0007			40 Ctarrows Ctract Critte 660		
6 )F 2-	SINGI F.I INF DIAGRAM PANFI	UAIE: 0/9/2023			49 Stevenson Street, Suite 000 San Francisco, CA 94105		70/2
68 •01					TEL 415.489.7240 www.interfaceengineering.com		CHERT + I
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# MECHANICAL SYMBOL LIST

Diffusers a	nd Grilles
EXHAUST AIR	
RETURN AIR	
SUPPLY AIR	
12x12 CD-1 DIFFUSER OR G	RILLE IDENTIFICATION
Ductwork F	ittings
<del>ہ۔۔۔۔</del> ج	ACOUSTICALLY LINED DUCT (SIZES SHOWN ARE NET INSIDE)
	CONCENTRIC SQUARE
	CONCENTRIC TRANSITION, RECTANGULAR OR ROUND
	MITERED ELBOW WITH TURNING VANES
	RADIUSED ELBOW
	ECCENTRIC TRANSITION, RECTANGULAR OR ROUND
	FLEXIBLE CONNECTION
	RECTANGULAR DUCT DROP
$\blacksquare \longrightarrow \blacksquare \blacksquare $	RECTANGULAR DUCT RISER
	RECTANGULAR OFFSET LESS THAN 15°
	RECTANGULAR OFFSET MORE THAN 15°
	ROUND DUCT DROP

ROUND DUCT RISER

# General

30X16	RECTANGULAR DUCT SIZING
30"Ø	ROUND DUCT SIZING
$\bigotimes$	EQUIPMENT ITEM NUMBER

# AMETER

# R SQUARE INCH

# NS PER MINUTE

# ΞТ

# JRE

JRE DIFFERENCE

# UMN

A. PROVIDE MISCELLANEOUS METALS AND MATERIALS FOR A COMPLETE INSTALLATION (IE. SUPPORT, BRACING, ETC.)

# **GENERAL MECHANICAL NOTES**

B. PROVIDE SUBMITTAL, FOR REVIEW, IN ACCORDANCE WITH THE SPECIFICATIONS. DO NOT DELIVER TO THE JOB SITE ANY PRODUCTS WITHOUT PRIOR REVIEW BY THE ARCHITECT. ENGINEER WILL PROVIDE MAXIMUM OF TWO REVIEWS OF SUBMITTAL PACKAGE. ARRANGE FOR ADDITIONAL REVIEWS AND/OR EARLY REVIEW OF LONG-LEAD ITEMS AND BEAR COSTS OF THESE ADDITIONAL REVIEWS AT ENGINEER'S STANDARD HOURLY RATES. SUBSTITUTION REQUESTS WILL NOT BE REVIEWED AFTER AWARD OF CONTRACT.

C. FLASH AND COUNTER FLASH ALL ROOF PENETRATIONS TO SEAL WEATHER TIGHT (SEE ARCHITECTURAL ROOFING DETAILS AND SPECIFICATIONS).

D. EQUIPMENT, HVAC DUCTS, PIPING AND OTHER DEVICES AND MATERIALS INSTALLED OUTDOORS OR EXPOSED TO WEATHER SHALL BE WEATHER-PROOF. SEE EQUIPMENT SCHEDULES FOR BRANCH PIPE SIZES TO EQUIPMENT, WHERE PIPE SIZES ARE NOT SHOWN ON PLANS.

# SHEET INDEX

- M0.1 SYMBOLS LIST AND GENERAL NOTES MECHANICAL
- M2.1 SITE PLAN MECHANICAL
- M4.1 ENLARGED PLANS AND DETAILS MECHANICAL

FIL		FINI FY AQUATIC CENTER								
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)F 2-	N(	SYMBOLS LIST AND GENERAL	DAIE: 0/9/2023				49 Stevenson Street, Suite 000 San Francisco, CA 94105		573 5 2	AND
68 •01	<b>)</b> .						TEL 415.489.7240 www.interfaceengineering.com		3	
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![](_page_62_Figure_0.jpeg)

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Sic	medi	CALIFO	<u>3</u>
	City of	Santa Ro	
	PROJECT 2021-0108 CONTACT Dominic Padatto	49 Stevenson Street, Suite 660 San Francisco, CA 94105	TEL 415.489.7240 www.interfaceengineering.com
			REVISION
			NO. DATE
DWN BY:	CHK BY:	DATE: 6/9/2023	SCALE:
FINLEY AQUATIC CENTER SPRAY GROUND AND RENOVATION	PROJECT	M2.1 SITE DI ANI MECHANICAI	
Ca M2 FILE N	ONTR CO2 (1 6	ACT N 2336 3 OF 2022-	0. 68 -014

![](_page_63_Figure_0.jpeg)

![](_page_63_Figure_1.jpeg)

M41	64 OF 68
FILE NO.	2022-014

Abb	reviations	PRV	PRESSURE REDUCING VALVE
#	NUMBER	PSI	POUNDS PER SQUARE INCH
&	AND	QTY	QUANTITY
(E)	EXISTING	RD	ROOF DRAIN
(F)	FUTURE	RWL	RAINWATER LEADER
(N)	NEW	S, SK	SINK
(X)	DEMOLISH	SAN	SANITARY
@	AT	SB	SERVICE BOX
,	FOOT, FEET	SD	STORM DRAIN
А	AQUASTAT, ARCHITECT, ANCHOR, AMPHERE	SF	SQUARE FEET
AFF	ABOVE FINISHED FLOOR	SHT	SHEET
AP	ACCESS PANEL	SOV	SHUT OFF VALVE
BFF	BELOW FINISHED FLOOR	SP	SUMP PUMP, STATIC PRESSURE
BFP	BACKFLOW PREVENTER	TEMP	TEMPERATURE
BLDG	BUILDING	TP	TRAP PRIMER, TOTAL PRESSURE
BTUH	BRITISH THERMAL UNITS PER HOUR	TYP	TYPICAL
CD	CONDENSATE DRAIN	V	VACUUM, VENT, VOLT
CFH	CUBIC FEET PER HOUR	W/	WITH
CFS	CUBIC FEET PER SECOND	W	WASTE
СО	CLEANOUT	WC	WATER COLUMN
CONT.	CONTINUATION	Gener	al
CW	COLD WATER		
D	DRAIN	—x—x—	DEMOLISH
DN	DOWN		EXISTING WORK
DS	DOWNSPOUT		NEW WORK
DSN	DOWNSPOUT NOZZLE		
DWV	DRAINAGE, WASTE AND VENT		PIPE OR CONDUIT BELOW GRADE
F	FIRE, FAHRENHEIT	}	CONTINUATION
FCO	FLOOR CLEANOUT	$\langle xx-x \rangle$	EQUIPMENT IDENTIFICATION
FD	FLOOR DRAIN		
FFE	FINISHED FLOOR ELEVATION	$\bullet$	EXTENT OF DEMOLITION
FL	FLOOR	X	FIXTURE TAG (LEVEL BELOW FIXTURE)
FT	FEET	$\langle \mathbf{x} \rangle$	KEYED NOTE
GPM	GALLONS PER MINUTE		
GWH	GAS WATER HEATER	Ð	POINT OF CONNECTION
HVAC	HEATING, VENTILATING AND AIR CONDITIONING	Pining	Fittings
HW	HOT WATER		T ittings
HWR	HOT WATER RETURN		ACCESS PANEL
HZ	HERTZ	모	AQUASTAT
IN, "	INCHES		BLIND FLANGE
INV		"	
IVV			САР
MIN	MINIMUM	Ф <u>сот</u> б	CLEANOUT TO GRADE
N			
NIC			CONCENTRIC REDUCER
NU.			DOWNSPOUT NOZZLE
			ECCENTRIC REDUCER
		Φ <u>FCO</u>	
UF0I _		⊕ <u>FD</u>	FLOOR DRAIN
 F		⊠ <sup>FS</sup>	FLOOR SINK
PD	PRESSURE DROP, PLUMBING DEMOLITION, PUMPED DISCHARGE		
PLBG	PLUMBING	<b>Þ</b>	
POC	POINT OF CONNECTION		

NOTE: This is a standard symbol list and not all items listed may be used.

# PLUMBING SYMBOL LIST

			<b>GENERAL PLUMBING NOTES</b>
o	PIPE RISE	Α.	ALL WORK UNDER THIS CONTRACT SHALL CONFORM TO THE CURRENT STATE STANDARDS ADOPTED BY THE LOCAL JURISDICTIONS INCLUDING APPLICABLE
<del></del>	STRAINER	В.	CONDITIONS SHOWN ON THE PLANS RELATIVE TO THE WORK TO BE PERFORM AVAILABLE AND SUBJECT TO VERIFICATION. VERIFY LOCATIONS AND ELEVATION CONNECTED. CORRECT DEFICIENCIES CAUSED BY FAILURE TO PERFORM SUC
Â.Î	T&P RELIEF VALVE WITH PIPE TO DRAIN		IMMEDIATELY NOTIFY ARCHITECT AND ENGINEER OF CONDITION IN CONFLICT
ţ	TEE DOWN ON PIPE	C.	COORDINATE INSTALLATION OF PIPING, FIXTURES, EQUIPMENT, AND THE LIKE STRUCTURAL COMPONENTS AND OTHER SYSTEMS INSTALLATION.
0		D.	COORDINATE FIXTURES, EQUIPMENT, PIPE ROUGH-IN/ CONNECTION LOCATION ARCHITECTURAL DRAWINGS.
		E.	LOCATE VALVES FOR SERVICE ACCESSIBILITY. VALVES INSTALLED ABOVE CEI
		F.	ALL WASTE PIPE TO SLOPE MINIMUM OF 1/4" PER FOOT.
Piping	Systems	G.	PROVIDE WATER HAMMER ARRESTERS TO DOMESTIC WATER LINES SERVING FOLLOWING.
	COLD WATER PIPING		
D	CONDENSATE / INDIRECT DRAIN PIPING	1. 2. 3.	FLUSH VALVES SOLENOID VALVES TO ICEMAKERS AND DISHWASHER. SENSOR FAUCETS
2#G	NATURAL GAS PIPING, 2 LB	4. 5. 6.	SINGLE HANDLE FAUCETS SINGLE HANDLE SHOWER VALVES SINGLE HANDLE TUB SHOWER VALVES
G	NATURAL GAS PIPING, 7" WC PRESSURE	H.	SEWER VENTS SHALL TERMINATE AT LEAST 10 FEET HORIZONTALLY (25 FEET FEET ABOVE OPENABLE WINDOWS, DOOR OPENING, AIR INTAKE, OR VENT SHA
OD	OVERFLOW DRAIN PIPING ABOVE GRADE OR FINISHED FLOOR		PROPERTY LINE.
	SANITARY VENT PIPING	I.	PRIOR TO BEING CONCEALED, PIPING PENETRATIONS AT THE FIRE RESISTIVE COMPLIANCE WITH THE FIRE RESISTANCE RATING.
		J.	FOR PIPES PASSING THROUGH RATED PENETRATIONS, PROVIDE UL LISTED FIL
	SANITARY WASTE OR SOIL PIPING ABOVE GRADE OR FINISHED FLOOR		SECTION 714.
	SANITARY WASTE OR SOIL PIPING BELOW GRADE OR FINISHED FLOOR		
	STORM DRAIN PIPING ABOVE GRADE OR FINISHED FLOOR		
<b>— —</b> SD <b>— —</b>	STORM DRAIN PIPING BELOW GRADE OR FINISHED FLOOR		
TP	TRAP PRIMER PIPING		

						-			-	
		DI IIM	DINC							
			DING							
				E	BASIS OF DESIGN		CONNE	ECTION		
SYMBOL	FIXTURE TYPE	DESCRIPTION	MFR	MODEL	ACCESSORIES	W	V	CW	HW	NOTES
BWV	BACKWATER VALVE	SANITARY SEWER BACKWATER VALVE	SPEARS	SML-4	WITH EXTENSION ADAPTERS. PROVIDE RISER EXTENSION AND INTERNAL EXTENSION PIPE TO EXTEND TO GRADE.	4"	-	-	-	
TP-1	TRAP PRIMER	SURFACE MOUNTED ELECTRONIC TRAP PRIMER	PPP	MPB-500-115V	W/ DISTRIBUTION MANIFOLD	-	-	1/2"	-	PROVIDE 120V, 1Ø POWER CONNECTION
NOTES:			-							

		PLUN	ABING	<b>FIXT</b>	URE SCHEDUL	E				
				BASI	S OF DESIGN		CONNE	ECTION		
SYMBOL	FIXTURE TYPE	DESCRIPTION	MFR	MODEL	ACCESSORIES	W	V	CW	НW	NOTES
DF-1	DRINKING FOUNTAIN	WALL MOUNTED, 316 STAINLESS STEEL, HIGH/LOW DRINKING FOUNTAIN WITH BOTTLE FILLER, VANDAL RESISTANT.	ELKAY	LK4409BF		2"	2"	1/2"	-	
FD-1	FLOOR DRAIN	PVC DRAIN BODY WITH MEMBRANE CLAMP AND 6" ROUND PVC ADJUSTABLE TOP	WATTS	FD-1160		3"	2"	-	-	PROVIDE WITH TRAP PRIMER.
FS-1	FLOOR SINK	12" SQUARE FLOOR SINK, PVC DRAIN BODY WITH DOME STRAINER, AND FULL GRATE.	ZURN	FS12-6-PV3		3"	2"	-	-	PROVIDE WITH TRAP PRIMER.
SH-1	DECK SHOWER (ACCESSIBLE)	PRESSURE BALANCING VALVE WITH INTEGRAL SERVICE STOPS, ACCESSIBLE TRIM, GRAB BAR SLIDE RAIL, AND HANDSPRAY WITH NON-POSITIVE SHUT OFF. VANDAL RESISTANT	SYMMONS	9603-PLR	PROVIDE WITH 1.5 GPM FLOW RESTRICTOR, 72" FLEXIBLE METAL HOSE, AND INLINE VACUUM BREAKER.	-	-	1/2"	1/2"	
NOTES: 1 *	SEE ARCHITECTURAL DUNLESS NOTED OTHER	DRAWINGS FOR ALL FIXTURE MOUNTING	G HEIGHTS AN	D LOCATIONS.						

# **SHEET INDEX**

P2.1 SITE PLAN - PLUMBING

JRRENT STATE, COUNTY, AND NATIONAL CODES AND G APPLICABLE AMENDMENTS.

D BE PERFORMED ARE BASED ON THE BEST INFORMATION S AND ELEVATIONS OF UTILITIES TO BE CROSSED OR PERFORM SUCH VERIFICATIONS AT NO EXPENSE TO OWNER. N IN CONFLICT WITH THE DETAILS/ PLANS.

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TION LOCATIONS AND DRAIN LOCATIONS WITH

ED ABOVE CEILING SHALL BE WITHIN 18" OF CEILING.

INES SERVING QUICK ACTING VALVES SUCH AS THE

ALLY (25 FEET FOR OSHPD PROJECTS) FROM AND AT LEAST 3 E, OR VENT SHAFT. VENT MUST BE AT LEAST 3 FEET FROM

IRE RESISTIVE ASSEMBLIES SHALL BE INSPECTED TO VERIFY

E UL LISTED FIRE STOP SYSTEM IN ACCORDANCE WITH CBC

P0.1 SYMBOLS LIST AND GENERAL NOTES - PLUMBING

P4.1 ENLARGED PLAN - PLUMBING P4.2 ENLARGED PLAN - PLUMBING

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FINLEY AQUATIC CENTER	FINLEY AQUATIC CENTER SPRAY GROUND AND RENOVATION PROJECT CHI				P0.1	SYMBOLS LIST AND GENERAL		
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![](_page_65_Figure_0.jpeg)

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![](_page_66_Figure_1.jpeg)

![](_page_66_Figure_2.jpeg)

FILE: 0108P41.DWG - P41 | EDIT: 6/6/2023 11:51 AM BY SALY | PLOT: 6/6/2023 1:17 PM BY SAL YBARRA

- 7. 4-INCH STORM DRAIN CONNECTION TO UNDERGROUND PIPING (IE = 106.75'). SEE CIVIL
- 8. 4-INCH SANITARY SEWER CONNECTION TO UNDERGROUND PIPING. SEE CIVIL DRAWINGS
- 9. TERMINATE TEMPERATURE/ PRESSURE RELIEF AT NEAREST FLOOR SINK.
- 10. PROVIDE P-TRAP AND FLOOR DRAIN AT BOTTOM OF BACKWASH PIT. BACKWASH PIT FLOOR DRAIN, ELEVATION OF DRAIN AND SIZE OF PIT TO BE COORDINATED WITH ARCHITECTURAL, STRUCTURAL, CIVIL, AND SPLASH PAD DRAWINGS.
- 11. SANITARY SEWER VENT PIPES RISE THROUGH AND TERMINATE ABOVE ROOF.
- 12. PROVIDE SANITARY SEWER BACKWATER VALVE. EXTEND TO GRADE AND PROVIDE

PROFESSION PROFESSION N. B. MIASOS EXPIDENT EXPIDENT CHANICA DECHA							
City of Santa Rosa							
E N G I N E E R I N G PROJECT 2021-0108 CONTACT Thomas de Senna 49 Stevenson Street, Suite 660 San Francisco, CA 94105 TeL 415,489,7240 www.interfaceengineering.com							
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![](_page_67_Figure_0.jpeg)

FILE: 0108P42.DWG - P42 | EDIT: 6/6/2023 11:56 AM BY SALY | PLOT: 6/6/2023 1:17 PM BY SAL YBARRA