PICKLEWEED PARK ENHANCEMENTS

SAN RAFAEL, CALIFORNIA

APN 009-032-06

PROJECT DIRECTORY

CLIENT
CITY OF SAN RAFAEL
1400 FIFTH AVENUE
SAN RAFAEL, CA 94901
PH: (415) 485-3408
CONTACT: THEO SANCHEZ

CIVIL ENGINEER
BKF ENGINEERS
4040 CIVIC CENTER DRIVE, STE 530
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LANDSCAPE ARCHITECT
GATES + ASSOCIATES
1655 N. MAIN STREET, STE 365,
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PH: (925) 736-8176
CONTACT: MELONIE REYNOLDS

GEOTECHNICAL ENGINEER
MILLER PACIFIC ENGINEERING GROUP
1360 REDWOOD WAY, STE B
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CONTACT: NATHAN G. KLEMIN

ELECTRICAL ENGINEER
ATIUM ENGINEERING
3533 YORK LANE
SAN RAMON, CA 94582
PH: (913) 961-1658
CONTACT: J. DAVID MAINO

IRRIGATION CONSULTANT
RUSSELL D. MITCHELL & ASSOCIATES
2760 CAMINO DIABLO
WALNUT CREEK, CA 94597
PH: (925) 939-3985
CONTACT: JEFF BRADSHAW

LOCATION MAP



GENERAL NOTES

1. THE CONTRACTOR AGREES THAT, IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE 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 CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXEMPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF ENGINEER.
2. EXCAVATIONS SHALL BE ADEQUATELY SHORED, BRACED AND SHEETED SO THAT THE EARTH WILL NOT SLIDE OR SETTLE AND SO THAT ALL EXISTING IMPROVEMENTS OF ANY KIND WILL BE FULLY PROTECTED FROM DAMAGE. ANY DAMAGE RESULTING FROM A LACK OF ADEQUATE SHORING, BRACING AND SHEETING, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND HE SHALL EFFECT NECESSARY REPAIRS OR RECONSTRUCTION AT HIS OWN EXPENSE. WHERE THE EXCAVATION FOR A CONDUIT TRENCH, AND/OR STRUCTURE IS FIVE FEET OR MORE IN DEPTH, THE CONTRACTOR SHALL PROVIDE ADEQUATE SHEETING, SHORING AND BRACING OR EQUIVALENT METHOD, FOR THE PROTECTION OF LIFE, OR LIMB, WHICH SHALL CONFORM TO THE APPLICABLE CONSTRUCTION SAFETY ORDERS OF THE DIVISION OF INDUSTRIAL SAFETY OF THE STATE OF CALIFORNIA, THE CONTRACTOR SHALL ALWAYS COMPLY WITH OSHA REQUIREMENTS.
3. 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.
4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN PERMITS NECESSARY TO PERFORM THE WORK SHOWN IN THESE PLANS FROM THE APPROPRIATE AGENCIES.
5. 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 TO DO SO.
6. 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.
7. 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.
8. 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.
9. ALL EXISTING UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF PREPARATION OF THESE PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES AT LEAST THREE (3) WORKING DAYS IN ADVANCE OF CONSTRUCTION TO FIELD LOCATE UTILITIES. CALL UNDERGROUND SERVICE ALERT (U.S.A.), AT 800-227-2600. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THOSE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ADDITIONAL COSTS INCURRED AS A RESULT OF CONTRACTOR'S FAILURE TO VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED AND MERGED IN THE CONTRACT UNIT PRICE.
10. ALL EXISTING UTILITIES AND IMPROVEMENTS THAT BECOME DAMAGED DURING CONSTRUCTION MUST BE COMPLETELY RESTORED TO THE SATISFACTION OF THE CITY ENGINEER OR UTILITY AGENCY REPRESENTATIVE, AT THE CONTRACTOR'S SOLE EXPENSE.
11. ANY RELOCATION OF PUBLIC UTILITIES SHALL BE CONDUCTED IN ACCORDANCE WITH ANY AND ALL REQUIREMENTS OF THE UTILITY COMPANY REPRESENTATIVE INCLUDING FEES, BONDS, PERMITS AND WORKING CONDITIONS, ETC. THIS WORK SHALL BE DONE AT NO EXPENSE TO THE UTILITY COMPANY. THE OWNER SHALL PAY THE COST OF ALL SUCH RELOCATION WORK INCLUDING FEES, BONDS, PERMITS, ETC.
12. THE CONSTRUCTION OF ALL GRAVITY UNDERGROUND LINES (STORM DRAINS) SHALL BEGIN AT THE MOST DOWNSTREAM END, UNLESS OTHERWISE SPECIFICALLY APPROVED BY ENGINEER OR BY THE OWNER.
13. IF ARCHEOLOGICAL MATERIALS ARE UNCOVERED DURING GRADING, TRENCHING OR OTHER EXCAVATION, EARTHWORK SHALL BE STOPPED UNTIL A PROFESSIONAL ARCHAEOLOGIST WHO IS CERTIFIED BY THE SOCIETY OF CALIFORNIA ARCHAEOLOGY (SCA) AND/OR THE SOCIETY OF PROFESSIONAL ARCHAEOLOGY (SOPA) HAS HAD AN OPPORTUNITY TO EVALUATE THE SIGNIFICANCE OF THE FIND AND SUGGEST APPROPRIATE MITIGATION MEASURES, IF THEY ARE DEEMED NECESSARY.
14. THE USE OR INSTALLATION OF ANY MATERIAL OR EQUIPMENT WHICH IS MADE FROM, OR WHICH CONTAINS ASBESTOS FOR USE IN THE CONSTRUCTION OF THESE IMPROVEMENTS, IS NEITHER SPECIFIED NOR RECOMMENDED. ANY PARTY INSTALLING OR USING ANY PARTY SUCH MATERIALS OR EQUIPMENT SHALL BE SOLELY RESPONSIBLE FOR ALL INJURIES, DAMAGES, OR LIABILITIES OF ANY KIND, CAUSED BY THE USE OF SUCH MATERIALS OR EQUIPMENT.
15. THE CONTRACTOR MUST MEET AND IMPLEMENT ALL NPDES, SWPPP, AND EROSION CONTROL REQUIREMENTS IN EFFECT AT THE TIME OF CONSTRUCTION.
16. SHOULD IT APPEAR THAT THE WORK TO BE DONE OR ANY MATTER RELATIVE THERETO IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT GATES & ASSOCIATES AT (925) 736-8176 FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.

CA: 1-800-227-2600
CALL BEFORE YOU DIG
USA
UNDERGROUND SERVICE ALERT
CA: 1-800-227-2600
CALL TWO WORKING DAYS BEFORE YOU DIG

APPROVED:

April Miller, Director of Public Works
City of San Rafael
R.C.E. 70853 EXP. 06/30/25

SHEET LIST

SHEET NO.	SHEET TITLE
G0.00	COVER SHEET
G0.10	PHASING PLAN
G0.20	CONSTRUCTION ACCESS AND STAGING PLAN
C0.01	GENERAL NOTES, LEGEND & ABBREVIATIONS
C1.01A	DEMOLITION PLAN – PHASE 1 (FIELD)
C1.02A	DEMOLITION PLAN – PHASE 1
C1.03A	DEMOLITION PLAN – PHASE 1
C1.01B	DEMOLITION PLAN – PHASE 2 (FIELD)
C1.02B	DEMOLITION PLAN – PHASE 2
C2.01A	HORIZONTAL CONTROL PLAN – PHASE 1 (FIELD)
C2.02A	HORIZONTAL CONTROL PLAN – PHASE 1
C2.03A	HORIZONTAL CONTROL PLAN – PHASE 1
C2.01B	HORIZONTAL CONTROL PLAN – PHASE 2 (FIELD)
C2.02B	HORIZONTAL CONTROL PLAN – PHASE 2
C3.01A	GRADING PLAN – PHASE 1 (FIELD)
C3.02A	GRADING PLAN – PHASE 1
C3.03A	GRADING PLAN – PHASE 1
C3.01B	GRADING PLAN – PHASE 2 (FIELD)
C3.02B	GRADING PLAN – PHASE 2
C4.01A	UTILITY PLAN – PHASE 1 (FIELD)
C4.02A	UTILITY PLAN – PHASE 1
C4.03A	UTILITY PLAN – PHASE 1
C5.01	CIVIL CONSTRUCTION DETAILS
C6.01A	EROSION & SEDIMENT CONTROL PLAN – PHASE 1 (FIELD)
C6.02A	EROSION & SEDIMENT CONTROL PLAN – PHASE 1
C6.03A	EROSION & SEDIMENT CONTROL PLAN – PHASE 1
C6.01B	EROSION & SEDIMENT CONTROL PLAN – PHASE 2 (FIELD)
C6.02B	EROSION & SEDIMENT CONTROL PLAN – PHASE 2
T0.10	TREE DISPOSITION NOTES AND INVENTORIES
T1.10	TREE DISPOSITION PLAN (FIELD)
T1.11	TREE DISPOSITION PLAN
T1.12	TREE DISPOSITION PLAN
L0.10	LAYOUT NOTES
L0.11	LAYOUT LEGEND
L0.20	PLANTING NOTES AND PLANT SCHEDULE
L1.10A	LAYOUT PLAN – PHASE 1 (FIELD)
L1.11A	LAYOUT PLAN – PHASE 1
L1.12A	LAYOUT PLAN – PHASE 1
L1.13A	LAYOUT PLAN – PHASE 1 ADD ALT
L1.10B	LAYOUT PLAN – PHASE 2 (FIELD)
L1.11B	LAYOUT PLAN – PHASE 2
L1.20A	DIMENSION PLAN – PHASE 1 (FIELD)
L1.21A	DIMENSION PLAN – PHASE 1
L1.22A	DIMENSION PLAN – PHASE 1
L1.23A	DIMENSION PLAN – PHASE 1 ADD ALT

SHEET LIST – CONT.

SHEET NO.	SHEET TITLE
L1.24A	DIMENSION PLAN – PHASE 1 ENLARGEMENTS
L1.20B	DIMENSION PLAN – PHASE 2 (FIELD)
L1.21B	DIMENSION PLAN – PHASE 2
L2.10A	PLANTING PLAN – PHASE 1 (FIELD)
L2.11A	PLANTING PLAN – PHASE 1
L2.12A	PLANTING PLAN – PHASE 1
L2.13A	PLANTING PLAN – PHASE 1 ADD ALT
L2.10B	PLANTING PLAN – PHASE 2 (FIELD)
L2.11B	PLANTING PLAN – PHASE 2
L3.10	IRRIGATION NOTES AND LEGEND
L3.10A	IRRIGATION PLAN – PHASE 1 (FIELD)
L3.11A	IRRIGATION PLAN – PHASE 1
L3.12A	IRRIGATION PLAN – PHASE 1
L3.13A	IRRIGATION PLAN – PHASE 1 ADD ALT
L3.10B	IRRIGATION PLAN – PHASE 2 (FIELD)
L3.11B	IRRIGATION PLAN – PHASE 2
L3.20	IRRIGATION DETAILS
L3.30	IRRIGATION DETAILS
L3.40	IRRIGATION DETAILS
L3.50	IRRIGATION DETAILS
L3.60	IRRIGATION WATER USE CALCS
L4.10	LANDSCAPE CONSTRUCTION DETAILS – PLANTING
L4.20	LANDSCAPE CONSTRUCTION DETAILS – PAVING
L4.21	LANDSCAPE CONSTRUCTION DETAILS – PAVING
L4.30	LANDSCAPE CONSTRUCTION DETAILS – FENCING AND GATES
L4.31	LANDSCAPE CONSTRUCTION DETAILS – FENCING AND GATES
L4.32	LANDSCAPE CONSTRUCTION DETAILS – FENCING AND GATES
L4.40	LANDSCAPE CONSTRUCTION DETAILS – STRIPING LAYOUT
L4.41	LANDSCAPE CONSTRUCTION DETAILS – STRIPING LAYOUT
L4.42	LANDSCAPE CONSTRUCTION DETAILS – BASKETBALL
L4.50	LANDSCAPE CONSTRUCTION DETAILS – SITE FURNISHINGS
L4.51	LANDSCAPE CONSTRUCTION DETAILS – SITE FURNISHINGS
L4.52	LANDSCAPE CONSTRUCTION DETAILS – SITE FURNISHINGS
L4.53	LANDSCAPE CONSTRUCTION DETAILS – SITE FURNISHINGS
E0.0	GENERAL INFORMATION
E1.1A	ELECTRICAL SITE PLAN – PHASE 1
E1.2A	ELECTRICAL SITE PLAN – PHASE 1
E1.1B	ELECTRICAL SITE PLAN – PHASE 2
E2.1	SITE LIGHTING CALCS
E6.0	ELECTRICAL DIAGRAMS
E7.0	ELECTRICAL SCHEDULES
E8.0	ELECTRICAL DETAILS
E8.1	ELECTRICAL DETAILS
E9.0	TITLE 24 INTERIOR LTG
E9.1	TITLE 24 EXTERIOR LTG
E9.2	TITLE 24 POWER

NO.	REVISION	BY	DATE

DESIGNED MR / SW
DRAWN SW / MM
CHECKED MR
APPROVED
DATE

PROJECT NAME: PICKLEWEED PARK ENHANCEMENTS
DRAWING NAME: COVER SHEET
SAN RAFAEL COUNTY OF MARIN CALIFORNIA

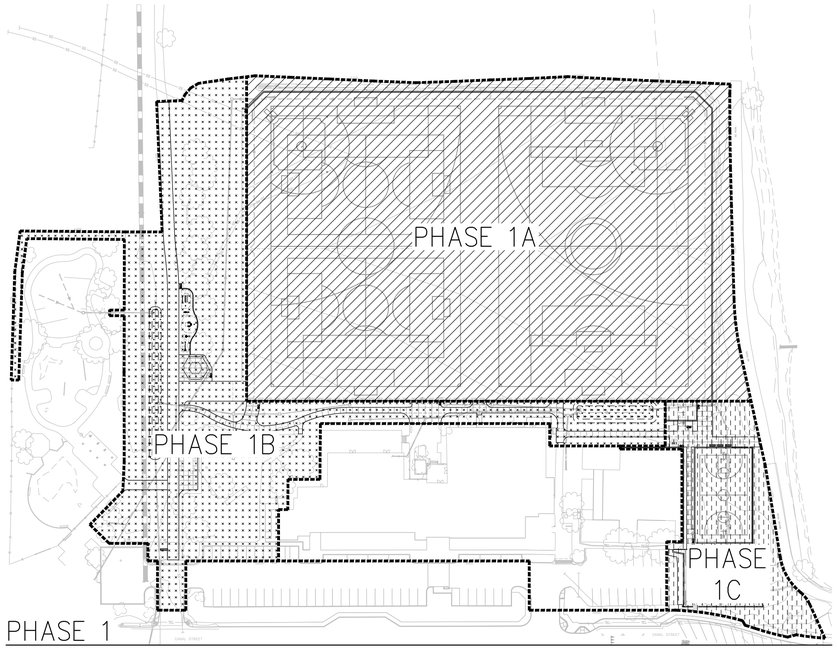
GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING - URBAN DESIGN

NOT FOR CONSTRUCTION

REGISTERED LANDSCAPE ARCHITECT
CASEY CASE • No. 6000
Signature
6/30/2024
Renewal Date
12/31/2025
State
CA
STATE OF CALIFORNIA

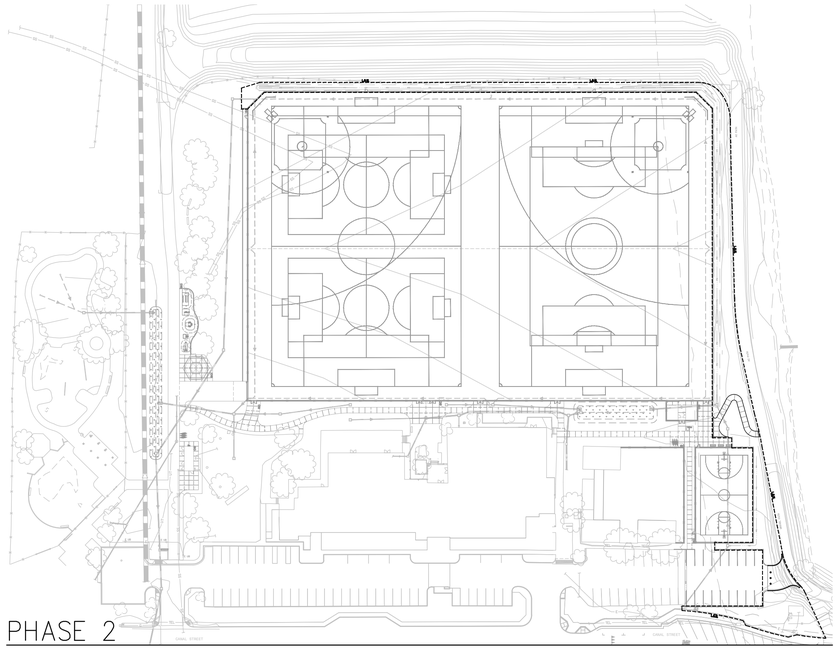
100% CDS
CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE:
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: G0.00



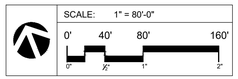
PHASE 1

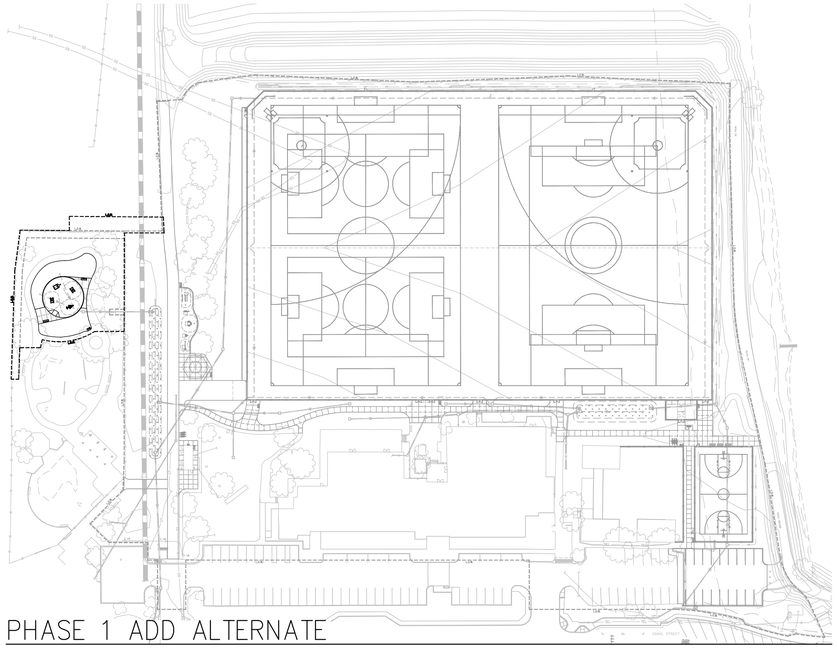
NOTES:
1. SCOPE AREA INCLUDES: ADULT FITNESS, GAZEBO, ALL-WEATHER TURF SPORTS FIELDS, BASKETBALL COURT, RESTROOM, PARKING LOT, SITE, SITE FURNISHINGS, HARDSCAPE IMPROVEMENTS, SITE LIGHTING, NEW PLANTING AND ASSOCIATED IRRIGATION.
2. SEE PHASE 1 LAYOUT PLANS ON SHEETS L1.10A-L1.12A.



PHASE 2

NOTES:
1. SCOPE AREA INCLUDES: NEW SLOPED PATH, VEHICULAR MAINTENANCE PATH, SITE LIGHTING, NEW PLANTING AND ASSOCIATED IRRIGATION.
2. SEE PHASE 2 LAYOUT PLANS ON SHEETS L1.10B-L1.11B.





PHASE 1 ADD ALTERNATE

NOTES:
1. SCOPE AREA INCLUDES: NEW PLAY AREA FOR AGES 2-5, SITE, SITE FURNISHINGS, HARDSCAPE IMPROVEMENTS, NEW PLANTING AND ASSOCIATED IRRIGATION.
2. SEE PHASE 1 ADD ALTERNATE LAYOUT PLAN ON SHEET L1.13A.

NO.	REVISION	BY	DATE

DESIGNED MR / SW
DRAWN SW / MM
CHECKED MR
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
PHASING PLAN

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING - URBAN DESIGN
SAN FRANCISCO, OAKLAND, SACRAMENTO, LOS ANGELES
T 925.755.0178 www.gatesassociates.com

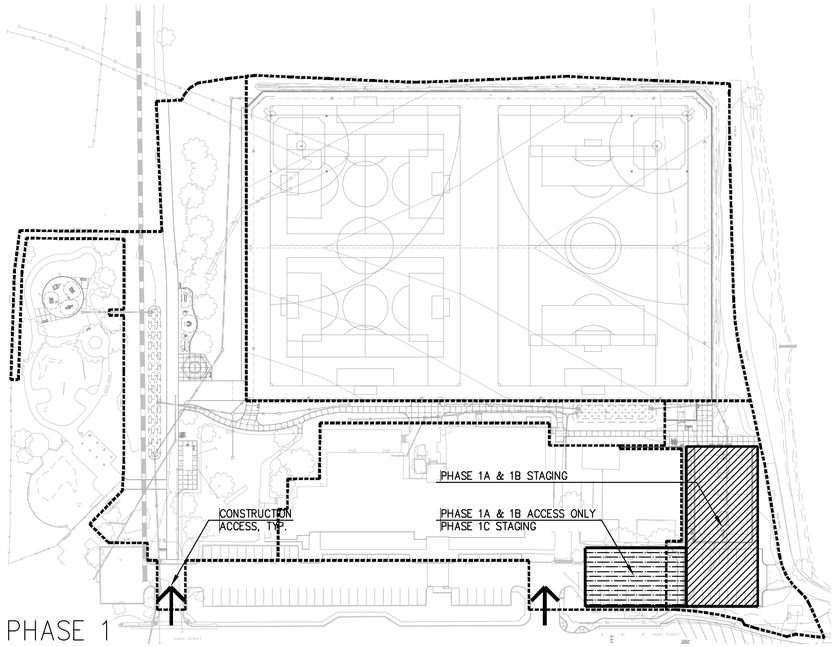
NOT FOR CONSTRUCTION

REGISTERED LANDSCAPE ARCHITECT
CASEY CASE No. 6000
Signature
6/20/2024
Renewal Date
12/31/2025
LA
STATE OF CALIFORNIA

100% CDS
CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

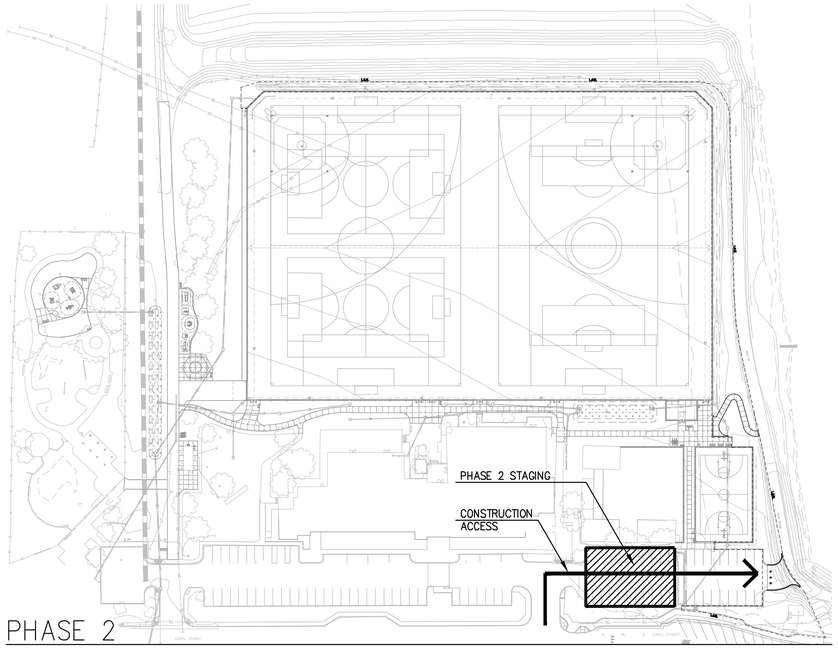
SCALE:
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: G0.10

May 13, 2024 - 4:40pm - USER Jillian
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PHASE 1

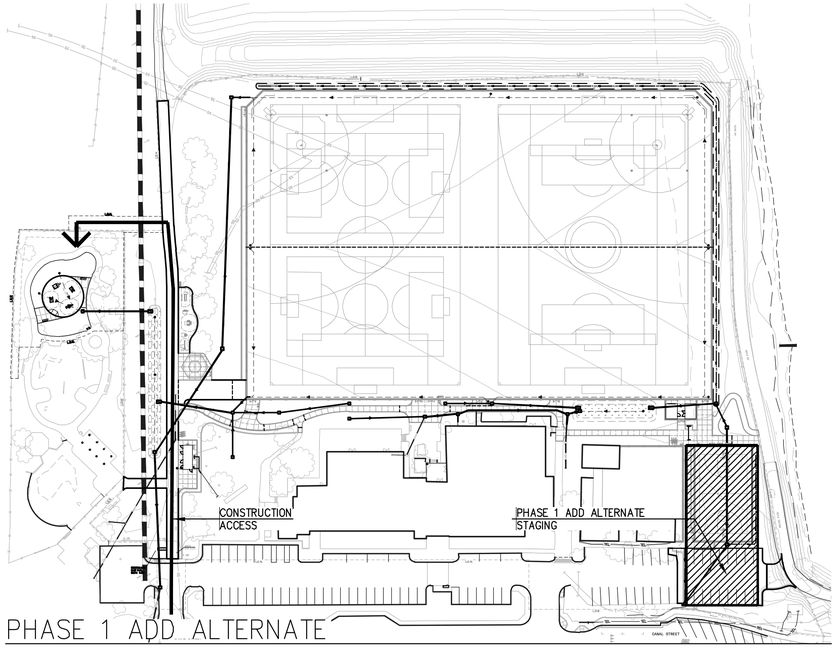
NOTES:
1. MAINTAIN USABILITY OF PARKING STALL FOR PUBLIC DURING CONSTRUCTION OF PHASE 1A AND 1B.
2. RETURN PARKING LOT TO ORIGINAL CONDITION AFTER COMPLETION OF WORK.
3. ADDITIONAL STAGING CAN BE MADE AVAILABLE AT WINDWARD WAY. CONSULT AND COORDINATE WITH CITY REGARDING ACCESS AND USE.



PHASE 2

NOTES:
1. RETURN PARKING LOT TO ORIGINAL CONDITION AFTER COMPLETION OF WORK.
2. ADDITIONAL STAGING CAN BE MADE AVAILABLE AT WINDWARD WAY. CONSULT AND COORDINATE WITH CITY REGARDING ACCESS AND USE.

SCALE: 1" = 80'-0"
0' 40' 80' 160'
0" 1/2" 1" 2"



PHASE 1 ADD ALTERNATE

NOTES:
1. ASSUME ADD ALTERNATE IS COMPLETED WITH PHASE 1.
2. ADDITIONAL STAGING CAN BE MADE AVAILABLE AT WINDWARD WAY. CONSULT AND COORDINATE WITH CITY REGARDING ACCESS AND USE.

NO.	REVISION	BY	DATE

DESIGNED MR / SW
DRAWN SW / MM
CHECKED MR
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS
SAN RAFAEL COUNTY OF MARIN CALIFORNIA

DRAWING NAME
CONSTRUCTION ACCESS AND STAGING PLAN

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING · URBAN DESIGN
T 510.236.8174 www.gatesla.com

NOT FOR CONSTRUCTION

REGISTERED LANDSCAPE ARCHITECT
CASEY GATES No. 6009
Expires 6/30/2024 12/31/2025
LA
STATE OF CALIFORNIA

100% CDS
CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE:
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: G0.20

May 14, 2024 - 11:09am - USER Illian
P:\san rafael\p6019 & p6114_pickleweed park\CAD\Sheets_DG-C-PHASING-PICKLEWEED PARK.DWG

GENERAL

THE DESIGN PROFESSIONAL WHO PREPARED THESE DRAWINGS IS NOT RESPONSIBLE FOR THE MISUSE OF, OR UNAUTHORIZED CHANGES MADE TO THESE DRAWINGS. THE CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION FROM THE DESIGN PROFESSIONAL WHO PREPARED THESE DRAWINGS PRIOR TO MAKING CHANGES.

PROVIDE A PROPERLY SIGNED ALTERNATE ACCESSIBLE ROUTE OF TRAVEL IF CONSTRUCTION ACTIVITIES IMPACT PEDESTRIAN ACCESS. THIS REQUIREMENT APPLIES CONTINUOUSLY, AND IS NOT LIMITED TO NORMAL WORKING HOURS.

PROVIDE RECORD DRAWINGS TO THE OWNER'S REPRESENTATIVE WHICH INCLUDE IMPROVEMENTS WHICH DEVIATE FROM AND IMPROVEMENTS NOT SHOWN ON THE ORIGINAL DESIGN DRAWINGS.

FURNISH AND INSTALL MATERIALS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE CITIES AND COUNTY OF MARIN DATED JUNE 1992, THE UNIFORM CONSTRUCTION STANDARDS OF THE CITIES AND COUNTY OF MARIN DATED JULY 2018 (COUNTY OF MARIN UNIFORM CONSTRUCTION STANDARDS), THE SAN RAFAEL SANITATION DISTRICT STANDARD SPECIFICATIONS AND DRAWINGS DATED 2007, THE MARIN MUNICIPAL WATER DISTRICT STANDARD DETAILS (CURRENT EDITION) AND STANDARD SPECIFICATIONS DATED MAY 2008, AND CALTRANS STANDARD PLANS AND CALTRANS STANDARD SPECIFICATIONS (2022 EDITIONS).

GRADING

PERFORM GRADING IN ACCORDANCE WITH CHAPTER 18 AND APPENDIX J OF THE 2022 CALIFORNIA BUILDING CODE, UNDER THE OBSERVATION OF THE GEOTECHNICAL ENGINEER AND IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL INVESTIGATION, PREPARED BY MILLER PACIFIC ENGINEERING GROUP DATED MAY 27, 2022.

PERFORM GRADING TO WITHIN 0.10-FEET OF THE LINES AND ELEVATIONS SHOWN ON THE CONSTRUCTION DRAWINGS.

PROVIDE A MOISTURE BARRIER IN AREAS WHERE CURB AND GUTTER AND VERTICAL CURB ARE ADJACENT TO LANDSCAPING AND WHERE THE SOIL EXPANSION INDEX IS GREATER THAN 51.

REMOVE MATERIAL WHICH WILL NOT BE USED ON SITE AS IT IS EXCAVATED AND DISPOSE OF IN ACCORDANCE WITH THE GOVERNING AGENCY'S REQUIREMENTS.

MAINTAIN A CLEAN CONSTRUCTION SITE TO PREVENT THE INTRODUCTION OF FOREIGN MATERIALS INTO THE STORM WATER CONVEYANCE SYSTEM. ACTIVITY DURING CONSTRUCTION WHICH RESULTS IN THE DISCHARGE OF POLLUTANTS TO THE STORM WATER CONVEYANCE SYSTEM IS IN VIOLATION OF THE CITY OF SAN RAFAEL'S STORM WATER PROGRAM AND THE SAN FRANCISCO BAY REGIONAL WATER QUALITY CONTROL BOARD'S REGULATIONS.

PROVIDE DUST CONTROL SEVEN (7) DAYS A WEEK, TWENTY-FOUR (24) HOURS A DAY THROUGHOUT THE DURATION OF THE CONSTRUCTION PROJECT TO MINIMIZE AIRBORNE POLLUTANTS.

STOP WORK IF CONTAMINATED MATERIAL IS ENCOUNTERED. PREPARE A WORK PLAN AND ACQUIRE APPROVAL IN WRITING FROM THE SAN RAFAEL FIRE PROTECTION DISTRICT AND THE SAN FRANCISCO BAY REGIONAL WATER QUALITY CONTROL BOARD PRIOR TO RESUMING WORK.

STOP WORK AND NOTIFY THE OWNER'S REPRESENTATIVE AND THE CITY OF SAN RAFAEL LIAISON IF REMAINS OF PREHISTORIC OR HISTORIC HUMAN ACTIVITIES ARE ENCOUNTERED. CONTACT THE MARIN COUNTY CORONER IF HUMAN REMAINS ARE ENCOUNTERED. THE OWNER WILL RETAIN THE SERVICES OF A QUALIFIED ARCHAEOLOGIST APPROVED BY THE CITY OF SAN RAFAEL TO EVALUATE THE SITUATION AND MAKE RECOMMENDATIONS FOR TREATMENT OF THE RESOURCE. THE CONTRACTOR SHALL PROCEED WITH WORK AT THE OWNER'S DIRECTION IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE ARCHAEOLOGIST.

ALL ROADS USED WITHIN THE CITY OF SAN RAFAEL DURING CONSTRUCTION SHALL BE CLEANED DAILY, OR MORE OFTEN AS REQUIRED BY THE CITY ENGINEER, OF DIRT AND DEBRIS SPILLED OR TRACKED ONTO CITY STREETS OR PRIVATE DRIVEWAYS.

THE CALIFORNIA BUILDING CODE REQUIRES THAT MATERIALS USED FOR THE CONSTRUCTION OF PERMANENT STRUCTURES LOCATED NEARER THAN 6-INCHES TO EARTH BE TREATED, OR OF NATURAL RESISTANCE TO DECAY. ELEVATIONS HAVE BEEN ESTABLISHED WITH THIS SET OF CIVIL DRAWINGS, WHICH MAY REQUIRE THE IMPLEMENTATION OF A RAISED CURB ALONG THE PERIMETER OF THE BUILDING WHERE ADJACENT TO LANDSCAPE AREAS. THE CONTRACTOR SHALL COORDINATE THE LOCATION(S) OF RAISED CURBS PRIOR TO POURING THE CONCRETE SLAB.

THE CONTRACTOR SHALL NOT IMPEDE DRAINAGE FROM EXISTING UPSTREAM PROPERTIES. THE CONTRACTOR SHALL PLACE STOCKPILES AWAY FROM CREEK SETBACKS, AWAY FROM VEGETATION DESIGNATED TO REMAIN, A MINIMUM OF 10-FEET FROM ADJACENT EXISTING RESIDENTIAL PARCELS, AND A MINIMUM OF 50-FEET FROM ADJACENT EXISTING RESIDENTIAL PARCELS WHERE THE STOCK PILE DEPTH EXCEEDS 2.5-FEET.

EARTHWORK QUANTITIES ARE APPROXIMATE AND HAVE BEEN SUMMARIZED ON THESE DRAWINGS TO PROVIDE THE REVIEWING AGENCY WITH AN OPINION OF HOW MUCH MATERIAL MAY BE MOVED TO FACILITATE THE PROPOSED IMPROVEMENTS. WHILE THE DESIGN PROFESSIONAL ANTICIPATES THAT AS MUCH AS 5,000 CY MAY BE IMPORTED WITH THIS PROJECT, ACTUAL VOLUMES ARE VARIABLE BASED ON THE GEOTECHNICAL ENGINEER'S ASSESSMENT OF THE SOIL ENCOUNTERED, THE CONTRACTOR'S METHOD OF STRIPPING, COMPACTION AND TRENCHING.

SURFACE PREPARATION: CLEAR ALL SOD, TOPSOIL, OVERSIZE DEBRIS, AND ORGANIC MATTER FROM THE SITE. ANY LANDSCAPING VEGETATION SCRAPED FROM THE PROJECT AREA SHOULD BE STOCKPILED FOR REUSE IN LANDSCAPING OR REMOVED FROM THE SITE. ANY CONSTRUCTION DEBRIS OR ABANDONED UTILITIES ENCOUNTERED DURING SITE GRADING SHOULD BE REMOVED FROM THE SITE.

SUBGRADE: FOLLOWING SITE PREPARATION, THE EXISTING SUBGRADE WILL NEED TO BE GRADED TO ACHIEVE THE PLANNED SLOPES, PROPERLY MOISTURE-CONDITIONED AND UNIFORMLY COMPACTED TO AT LEAST 90 PERCENT RELATIVE COMPACTION. IN AREAS WHERE NEW CONCRETE FLATWORK WILL BE INSTALLED, THE UPPER 6-INCHES SHOULD BE MOISTURE CONDITIONED TO WITHIN 2 PERCENT OF THE OPTIMUM MOISTURE CONTENT AND COMPACTED TO AT LEAST 92 PERCENT RELATIVE COMPACTION. IF CLAYEY SOILS ARE EXPOSED, THEY SHOULD BE MOISTURE CONDITIONED TO ABOVE THE OPTIMUM MOISTURE CONTENT AND COMPACTED TO AT LEAST 92 PERCENT RELATIVE COMPACTION. CLAYEY SOILS SHOULD BE MAINTAINED IN A MOIST STATE PRIOR TO ROCK PLACEMENT.

IF IMPORTED FILL IS REQUIRED, THE MATERIAL SHALL CONSIST OF SOIL AND ROCK MIXTURES THAT: (1) ARE FREE OF ORGANIC MATERIAL, (2) HAVE A LIQUID LIMIT LESS THAN 40 AND A PLASTICITY INDEX LESS THAN 20, AND (3) HAVE A MAXIMUM PARTICLE SIZE OF 4-INCHES. ANY IMPORTED FILL MATERIAL SHALL BE TESTED BY THE GEOTECHNICAL ENGINEER TO DETERMINE ITS SUITABILITY FOR USE AS FILL MATERIAL.

OPINION OF PROBABLE EARTHWORK QUANTITIES (PHASE 1)

MATERIAL MOVED ON SITE*	4,500 CY
IMPORT	3,500 CY
EXPORT	NOT ANTICIPATED

OPINION OF PROBABLE EARTHWORK QUANTITIES (PHASE 2)

MATERIAL MOVED ON SITE*	0 CY
IMPORT	270 CY
EXPORT	NOT ANTICIPATED

*MATERIAL MOVED ON SITE INCLUDES SOIL EXCAVATED (CUT) AS A RESULT OF STRIPPING OR GRADING ACTIVITIES AND REUSED ON THE PROJECT SITE AS FILL.

SOILS TO BE REUSED SHALL BE FREE AND CLEAR OF DELETERIOUS MATERIALS. SOILS FOR REUSE IN PLANTING AREAS SHALL BE TOPSOIL ONLY AND PER THE REQUIREMENTS SET FORTH IN THE SPECIFICATIONS.

UTILITIES

SEARCH FOR EXISTING WELLS AND SEPTIC SYSTEMS WITH THE PROJECT GEOTECHNICAL ENGINEER PRIOR TO CONDUCTING CONSTRUCTION ACTIVITY.

ABANDON EXISTING WELLS AND SEPTIC SYSTEMS UNDER THE OBSERVATION OF THE PROJECT GEOTECHNICAL ENGINEER AS REQUIRED BY THE CITY OF SAN RAFAEL.

EXPOSE EXISTING UTILITIES PRIOR TO TRENCHING TO VERIFY THE ALIGNMENTS AND ELEVATIONS OF THE UTILITIES, AND TO VERIFY DESIGN ASSUMPTIONS. EXISTING UTILITIES MAY REQUIRE RELOCATION AND/OR PROPOSED IMPROVEMENTS MAY REQUIRE GRADE OR ALIGNMENT REVISION DUE TO FIELD CONDITIONS. IF THE EXPOSED UTILITY IS DETERMINED TO BE IN A LOCATION WHICH IS NOT REFLECTED BY THE CONSTRUCTION DOCUMENTS, NOTIFY THE ENGINEER IN WRITING SO THAT APPROPRIATE ADJUSTMENTS CAN BE MADE.

REPORT UTILITY CONFLICTS TO THE OWNER'S REPRESENTATIVE IN WRITING AS THEY ARE ENCOUNTERED SO THAT THE OWNER AND OWNER'S REPRESENTATIVE CAN MAKE A DECISION AS TO HOW THE CONTRACTOR SHOULD PROCEED WITH THE WORK.

UNLESS OTHERWISE NOTED, PROVIDE HIGH DENSITY POLYETHYLENE PIPE (HDPE) WHERE ANNOTATED AS STORM DRAIN (SD) ON THE CONSTRUCTION DRAWINGS. PROVIDE CLASS III RCP WHERE ANNOTATED AS PUBLIC STORM DRAIN (PUB SD) ON THE CONSTRUCTION DRAWINGS.

PROVIDE TRENCHING FOR WATER UTILITIES IN ACCORDANCE WITH NORTH MARIN WATER DISTRICT STANDARD DRAWING 1 AND DESIGN AND CONSTRUCTION STANDARD SPECIFICATIONS SECTION 02223, AND FOR OTHER UTILITIES IN ACCORDANCE WITH THE UNIFORM CONSTRUCTION STANDARDS OF THE CITIES AND COUNTY OF MARIN DRAWING NUMBERS 330, 340 AND 350.

EXCAVATIONS FOR UTILITIES WILL MOST LIKELY EXTEND INTO MEDIUM DENSE GRANULAR SOILS AND MEDIUM STIFF SILT AND CLAY SOILS. TRENCH EXCAVATIONS HAVING A DEPTH OF FIVE FEET OR MORE THAT WILL BE ENTERED BY WORKERS MUST BE SLOPED, BRACED, OR SHORED IN ACCORDANCE WITH CURRENT CAL/OSHA REGULATIONS. THE MEDIUM DENSE GRANULAR SOILS AND MEDIUM STIFF SILT AND CLAY SOILS APPEAR TO BE TYPE C. ALL EXCAVATIONS WHERE COLLAPSE OF EXCAVATION SIDEWALL, SLOPE OR BOTTOM COULD RESULT IN INJURY OR DEATH OF WORKERS, SHOULD BE EVALUATED BY THE CONTRACTOR'S SAFETY OFFICER, AND DESIGNATED COMPETENT PERSON PRIOR TO ENTERING IN ACCORDANCE WITH CURRENT CAL/OSHA REGULATIONS.

BEDDING MATERIALS FOR UTILITY SHOULD BE WELL GRADED SAND WITH 90 TO 100 PERCENT OF PARTICLES PASSING THE NO. 4 SIEVE AND NO MORE THAN 5 PERCENT FINER THAN THE NO. 200 SIEVE. PROVIDE THE MINIMUM BEDDING BENEATH THE PIPE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION, TYPICALLY 3 TO 6 INCHES. TRENCH BACKFILL MAY CONSIST OF ON-SITE SOILS, MOISTURE CONDITIONED TO WITHIN 2 PERCENT OF THE OPTIMUM MOISTURE CONTENT, PLACED IN THIN LIFTS AND COMPACTED TP A MINIMUM OF 90 PERCENT RELATIVE COMPACTION. BACKFILL FOR TRENCHES WITHIN PAVEMENT AREAS SHOULD CONSIST OF NON-EXPANSIVE GRANULAR FILL. USE EQUIPMENT AND METHODS THAT ARE SUITABLE FOR WORK IN CONFINED AREAS WITHOUT DAMAGING UTILITY CONDUITS. WHERE UTILITY LINES CROSS UNDER OR THROUGH PERIMETER FOOTINGS, THEY SHOULD BE SEALED TO REDUCE MOISTURE INTRUSION INTO THE AREAS UNDER THE SLABS AND/OR FOOTINGS.

COORDINATE WITH UTILITY COMPANIES, FURNISH, INSTALL, TEST AND OBTAIN INSPECTIONS FOR UNDERGROUND IMPROVEMENTS PRIOR TO SURFACING.

OTHER FORCES WILL BE ENGAGED IN INSTALLING, IN MAKING ADJUSTMENTS TO AND/OR IN RELOCATING VARIOUS FACILITIES THROUGHOUT THE PROJECT. THE CONTRACTOR SHALL COORDINATE WORK AROUND OTHER FORCES IN A MANNER THAT DOES NOT PROLONG THE CONTRACT TIME.

EXISTING UNDERGROUND FACILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE AND HAVE BEEN LOCATED BASED ON TOPOGRAPHIC FEATURES AND AVAILABLE INFORMATION. THE PROFESSIONAL WHO PREPARED THESE DRAWINGS, THE OWNER, AND THE CITY OF SAN RAFAEL ASSUME NO RESPONSIBILITY FOR THE ACCURACY OF THESE FACILITIES OR FOR THE INADVERTENT OMISSION OF RELATED INFORMATION.

THE CONTRACTOR IS CAUTIONED NOT TO ORDER PRECAST ITEMS OR INSTALL IMPROVEMENTS UNTIL CONFLICTS ARE RESOLVED. IMPROVEMENTS INSTALLED OR ORDERED PRIOR TO CONFLICT RESOLUTION SHALL BE DONE SOLELY AT THE CONTRACTOR'S RISK AND AT NO EXPENSE TO THE OWNER, THE DESIGN PROFESSIONAL, OR THE CITY OF SAN RAFAEL.

UTILITY CONFLICTS MAY OCCUR IN THOSE INSTANCES WHERE TWO GRAVITY UTILITIES CROSS AND LACK THE REQUIRED SEPARATION, OR IN THOSE INSTANCES WHERE AN EXISTING UTILITY HAS NOT BEEN IDENTIFIED IN THE CONSTRUCTION DOCUMENTS.

CROSSING UTILITIES WHICH HAVE BEEN IDENTIFIED IN THE CONSTRUCTION DOCUMENTS MAY NOT BE CONSTRUED AS UTILITY CONFLICTS. THE CONTRACTOR SHALL INSTALL GRAVITY UTILITIES TO THE LINES AND ELEVATIONS IDENTIFIED IN THE CONSTRUCTION DOCUMENTS AND INSTALL OTHER UTILITIES ABOVE OR BELOW GRAVITY UTILITIES WHILE COMPLYING WITH THE MINIMUM COVER REQUIREMENTS FOR EACH UTILITY INSTALLED.

UTILITY LENGTHS SHOWN REFLECT ROUNDED LENGTHS MEASURED HORIZONTALLY BETWEEN THE CENTERS OF STRUCTURES. THE CONTRACTOR SHALL VERIFY SLOPED UTILITY LENGTHS IN THE FIELD PRIOR TO ORDERING MATERIAL.

UNLESS OTHERWISE NOTED, PROPOSED UTILITIES SHOWN HEREON ARE TO BE CONSIDERED PRIVATE UTILITIES.

MAPPING

UNAUTHORIZED CHANGES & USES: THE PROFESSIONAL PREPARING THIS MAP WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THIS MAP. CHANGES TO THIS MAP MUST BE REQUESTED IN WRITING AND MUST BE APPROVED BY THE PROFESSIONAL.

THE LOCATIONS OF EXISTING UNDERGROUND FACILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE AND ARE BASED ON OBSERVED TOPOGRAPHIC SURFACE FEATURES. THE PROFESSIONAL PREPARING THIS MAP ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THESE FACILITIES OR FOR THE INADVERTENT OMISSION OF RELATED INFORMATION.

TREE DIAMETERS ARE MEASURED AT CHEST HEIGHT (48"). DRIPLINE DIAMETERS AND TREE SPECIES ARE APPROXIMATE ONLY AND SHOULD BE VERIFIED BY A CERTIFIED ARBORIST.

BENCHMARK: MAG NAIL, LOCATION SHOWN HEREON, ELEVATION 6.08' (DATUM NAVD 88, GEOID 18, BY USING NGS BENCHMARK, DESIGNATION A 108, PID - HT1767).

FIELD SURVEY DATE: FEBRUARY 15, 2022 & MARCH 3, 2022

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3. C1.02A DEMOLITION PLAN - PHASE 1
4. C1.03A DEMOLITION PLAN - PHASE 1
5. C1.01B DEMOLITION PLAN - PHASE 2 (FIELD) BID ALTERNATE ITEM 3
6. C1.02B DEMOLITION PLAN - PHASE 2 BID ALTERNATE ITEM 3
7. C2.01A HORIZONTAL CONTROL PLAN - PHASE 1 (FIELD)
8. C2.02A HORIZONTAL CONTROL PLAN - PHASE 1
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10. C2.01B HORIZONTAL CONTROL PLAN - PHASE 2 (FIELD) BID ALTERNATE ITEM 3
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17. C4.01A UTILITY PLAN - PHASE 1 (FIELD)
18. C4.02A UTILITY PLAN - PHASE 1
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25. C6.02B EROSION & SEDIMENT CONTROL PLAN - PHASE 2 BID ALTERNATE ITEM 3

OWNER: CITY OF SAN RAFAEL, 111 MORPHEW ST, SAN RAFAEL, CA 94901, PH: (415) 485-3355

CIVIL ENGINEER: BKF ENGINEERS, 4040 CIVIC CENTER DR, SAN RAFAEL, CA. 94903, PH: (415) 930-7960

LANDSCAPE ARCHITECT: GATES & ASSOCIATES, 1655 N. MAIN ST, STE 365, WALNUT CREEK, CA 94596, PH: (925) 736-8176, FAX: (925) 838-8901

GEOTECHNICAL ENGINEER: MILLER PACIFIC ENGINEERING GROUP, 504 REDWOOD BLVD, STE 220, NOVATO, CA 94947, PH: (415) 382-3444, FAX: (415) 382-3450

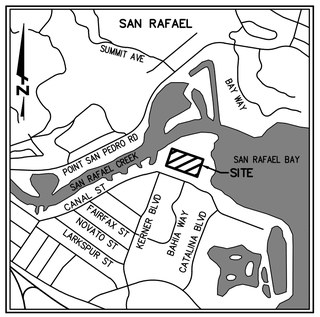
ABBREVIATIONS

±	MORE OR LESS	MAX	MAXIMUM
Δ	DELTA	MB	MAILBOX
AB	AGGREGATE BASE	MH	MANHOLE
AC	ASPHALT CONCRETE	MIN	MINIMUM
APN	ASSESSOR'S PARCEL NUMBER	MON	MONUMENT
BC	BEGIN CURVE	NO	NUMBER
BCT	BEGIN CURB TRANSITION	NTS	NOT TO SCALE
BFP	BACKFLOW PREVENTER	OVH	OVERHEAD UTILITY LINE
BGL	BOTTOM OF GRAVEL LAYER	OR	OFFICIAL RECORDS
BLDG	BUILDING	PAD	PAD GRADE
BLRD	BOLLARD	PCC	PORTLAND CEMENT CONCRETE
BM	BENCHMARK	PG&E	PACIFIC GAS & ELECTRIC
BO	BLOWOFF	PIV	POST INDICATOR VALVE
BSL	BUILDING SETBACK LINE	PL	PROPERTY LINE
CB	CATCH BASIN	PTC	PROJECTED TOP OF CURB
CC	POINT OF COMPOUND CURVE	PUE	PUBLIC UTILITY EASEMENT
CL	CENTERLINE	PVI	POINT OF VERTICAL INTERSECTION
CL2	CLASS II	PVT	PRIVATE
CO	CLEAN OUT	R	RADIUS
CONC	CONCRETE	RC	POINT OF REVERSE CURVE
CY	CUBIC YARD	RSPR	RIPRAP ROCK SLOPE PROTECTION
DDC	DOUBLE DETECTOR CHECK	RTWL	RETAINING WALL
DI	DROP INLET	R/W	RIGHT OF WAY
DIA	DIAMETER	S=	SLOPE
DN	DOCUMENT NUMBER	SD	STORM DRAIN
DS	RAINWATER DOWN SPOUT	SDCO	STORM DRAIN CLEAN OUT
DW	DRIVEWAY	SDMH	STORM DRAIN MANHOLE
DYL	DOUBLE YELLOW LINE	SF	SQUARE FEET
E	ELECTRIC	SL	STREETLIGHT
ECT	END CURB TRANSITION	SO	SIDE OPENING
EG	EXISTING GROUND	SS	SANITARY SEWER
ELEV	ELEVATION	SSCO	SANITARY SEWER CLEAN OUT
EM	ELECTRIC METER	SSMH	SANITARY SEWER MANHOLE
EP	EDGE OF PAVEMENT	STA	STATION
ER	EDGE OF ROAD	STD	STANDARD
ESMT	EASEMENT	TB	TOP OF BOX
EX	EXISTING	TC	TOP FACE OF CURB
FDC	FIRE DEPARTMENT CONNECTION	TEL	TELECOMMUNICATION LINE
FF	FINISHED FLOOR	TF	TRANSFORMER
FG	FINISHED GRADE	TG	TOP OF GRATE
FH	FIRE HYDRANT	TGL	TOP OF GRAVEL LAYER
FL	SURFACE FLOWLINE	TS	TRAFFIC SIGNAL
FT	FOOT	TSL	TOP OF SOIL LAYER
G	GAS	TV	TELEVISION
GB	GRADE BREAK	TW	TOP OF WALL
GC	GARBAGE CAN	TYP	TYPICAL
GI	GRATE INLET	UB	UTILITY BOX
GM	GAS METER	UP	UTILITY POLE
HB	HOSE BIB	UT	UNDERGROUND UTILITY LINE
HDRL	HANDRAIL	VC	VERTICAL CURVE
HORZ	HORIZONTAL	VERT	VERTICAL
HT	HEIGHT	VLT	VAULT
INV	BOTTOM INSIDE OF PIPE	W	WATER
IP	IRON PIPE	WL	WHITE LINE
IR	IRRIGATION	WM	WATER METER
L	LENGTH	WS	WATER SERVICE
LP	LIGHT POLE	YD	YARD DRAIN

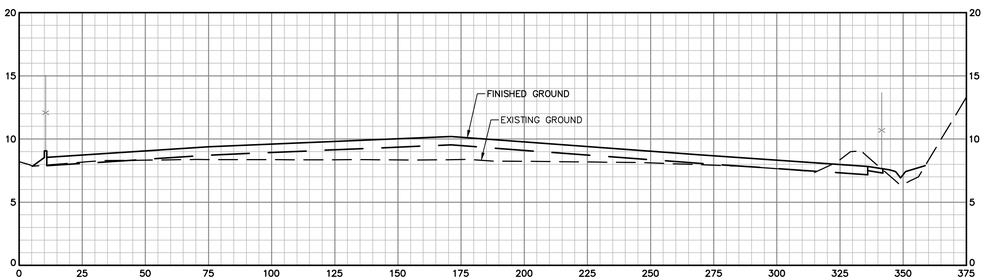
SYMBOLS & LEGEND

EXISTING / PROPOSED

BENCHMARK
IRON PIPE
CENTERLINE MONUMENT
BLOW OFF
VALVE
CHECK VALVE
BACKFLOW PREVENTION DEVICE
FIRE DEPARTMENT CONNECTION
FIRE HYDRANT
POST INDICATOR VALVE
REDUCER
RISER
LIGHT POLE
STREET SIGN
TRAFFIC SIGNAL
STREET LIGHT
UTILITY POLE
GUY ANCHOR
CATCH BASIN
TREE
TREE CLUSTER
TREE TO BE REMOVED
PROPERTY LINE
BUILDING SETBACK
EASEMENT
CENTERLINE
GRADE BREAK
FLOW LINE
FENCE
TREE PROTECTION FENCE
SIZE" SS
SANITARY SEWER
SIZE" SD
STORM DRAIN
PERFORATED PIPE
SIZE" W
WATER
OVH
OVERHEAD UTILITY LINE
UT
UNDERGROUND UTILITY LINE
E
UNDERGROUND ELECTRIC LINE
G
UNDERGROUND GAS LINE
TEL
UNDERGROUND TELECOM LINE
COMPACTED BASE PATHWAY
ASPHALT CONCRETE
CONCRETE
INV
INVERT AT CLEANOUT
?
KEYNOTE
1 / C1
DETAIL IDENTIFICATION
SHEET WHERE DETAIL IS SHOWN
A / C2
CROSS SECTION IDENTIFICATION
SHEET WHERE CROSS SECTION IS SHOWN



VICINITY MAP
NOT TO SCALE



SECTION A
H: 1"=30'
V: 1"=6'

MATERIALS TABLE

SURFACE TYPE	LOCATION	THICKNESS	CL2 BASE ROCK	NOTE	TI
ARTIFICIAL TURF SURFACE	SPORTS FIELD	–	–	1	–
PORTLAND CEMENT CONCRETE	PEDESTRIAN WALKWAYS	4"	4"	2	–
ASPHALT CONCRETE	PEDESTRIAN WALKWAYS, VEHICULAR AREAS & BASKETBALL COURT	3.5"	10"	–	6.0
COMPACTED BASE	COMPACTED BASE PATHWAY	6"	–	–	–

1. SEE DETAIL 7, SHEET C5.01.
2. REFER TO THE LANDSCAPE DRAWINGS FOR CONCRETE FINISH.

NOTE:
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.

NO.	REVISION	BY	DATE

DESIGNED NR
DRAWN CG
CHECKED AD
APPROVED
DATE

PROJECT NAME: PICKLEWEED PARK ENHANCEMENTS
DRAWING NAME: GENERAL NOTES, LEGEND & ABBREVIATIONS
SAN RAFAEL COUNTY OF MARIN CALIFORNIA

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REGISTERED PROFESSIONAL ENGINEER
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No. C-85129
CIVIL
STATE OF CALIFORNIA

100% CDS
CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE: AS SHOWN
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: C0.01
DRAWING: 1 OF 25

Plot May 13, 2024 at 12:26pm
191470-15_SITE.dwg

KEYNOTES:

(D1) REMOVE EXISTING BASEBALL BACKSTOP AND DISPOSE OF IN ACCORDANCE WITH LOCAL REGULATIONS.

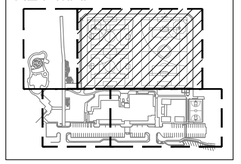
(D2) REMOVE EXISTING STORM DRAIN INLET AND DISPOSE OF IN ACCORDANCE WITH LOCAL REGULATIONS.

(D3) ABANDON EXISTING STORM DRAIN IN PLACE. REMOVE EXISTING STORM DRAIN WHERE IN CONFLICT WITH PROPOSED IMPROVEMENTS AND DISPOSE OF IN ACCORDANCE WITH LOCAL REGULATIONS.

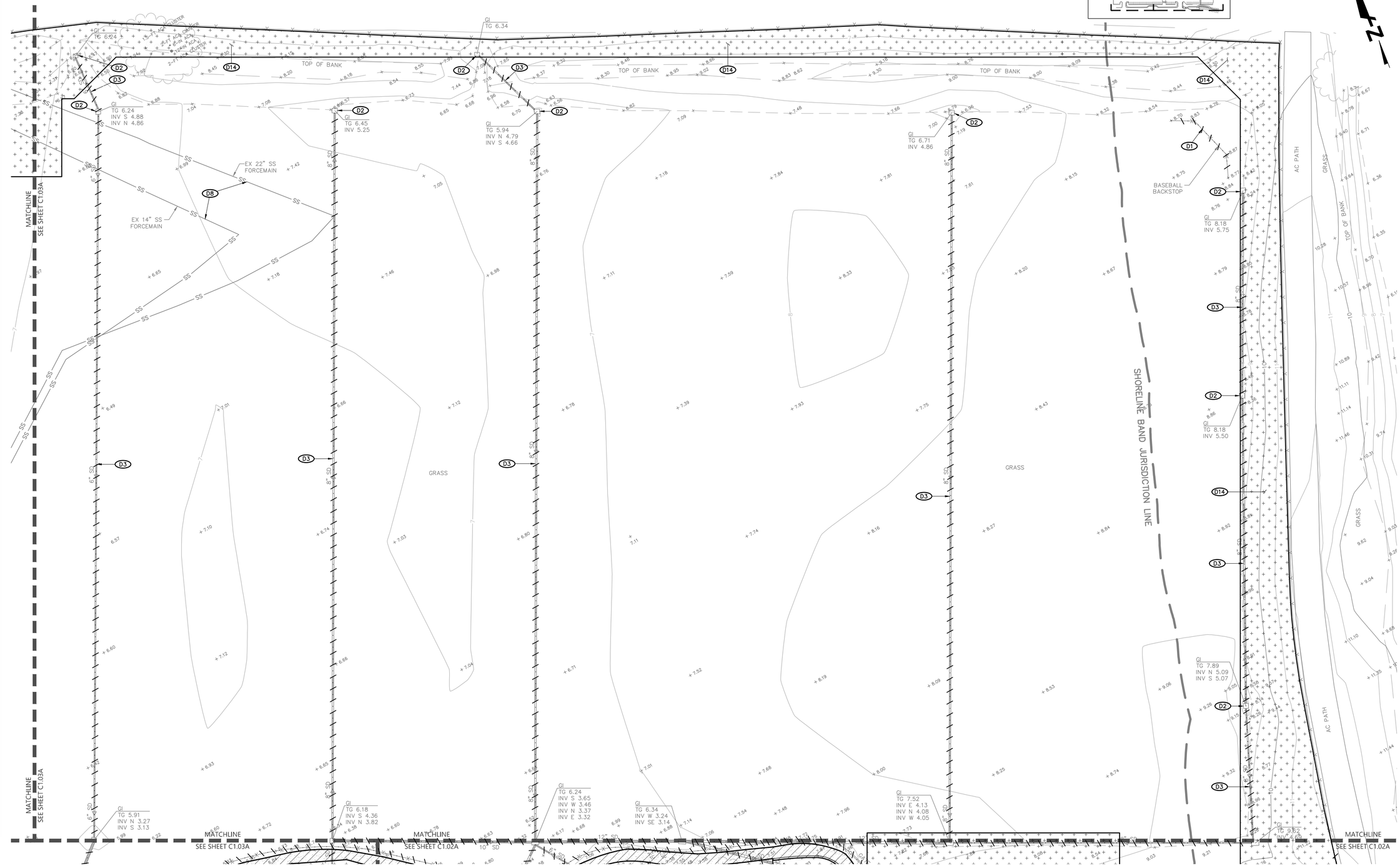
(D8) APPROXIMATE LOCATION OF EXISTING SANITARY SEWER FORCEMAIN. CONTRACTOR TO VERIFY LOCATION IN THE FIELD PRIOR TO ANY EXCAVATION.

(D14) CLEAR AND GRUB AS REQUIRED TO FACILITATE THE PROPOSED IMPROVEMENTS AND LANDSCAPING AREAS. SEE LANDSCAPE DRAWINGS FOR ADDITIONAL INFORMATION.

KEY MAP



scale 1" = 20' (20 0 20 40 feet)



Plot May 13, 2024 at 12:23pm

191470-15_SITE.dwg

NO.	REVISION	BY	DATE

DESIGNED NR
DRAWN CG
CHECKED AD
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
DEMOLITION PLAN PHASE 1 (FIELD)

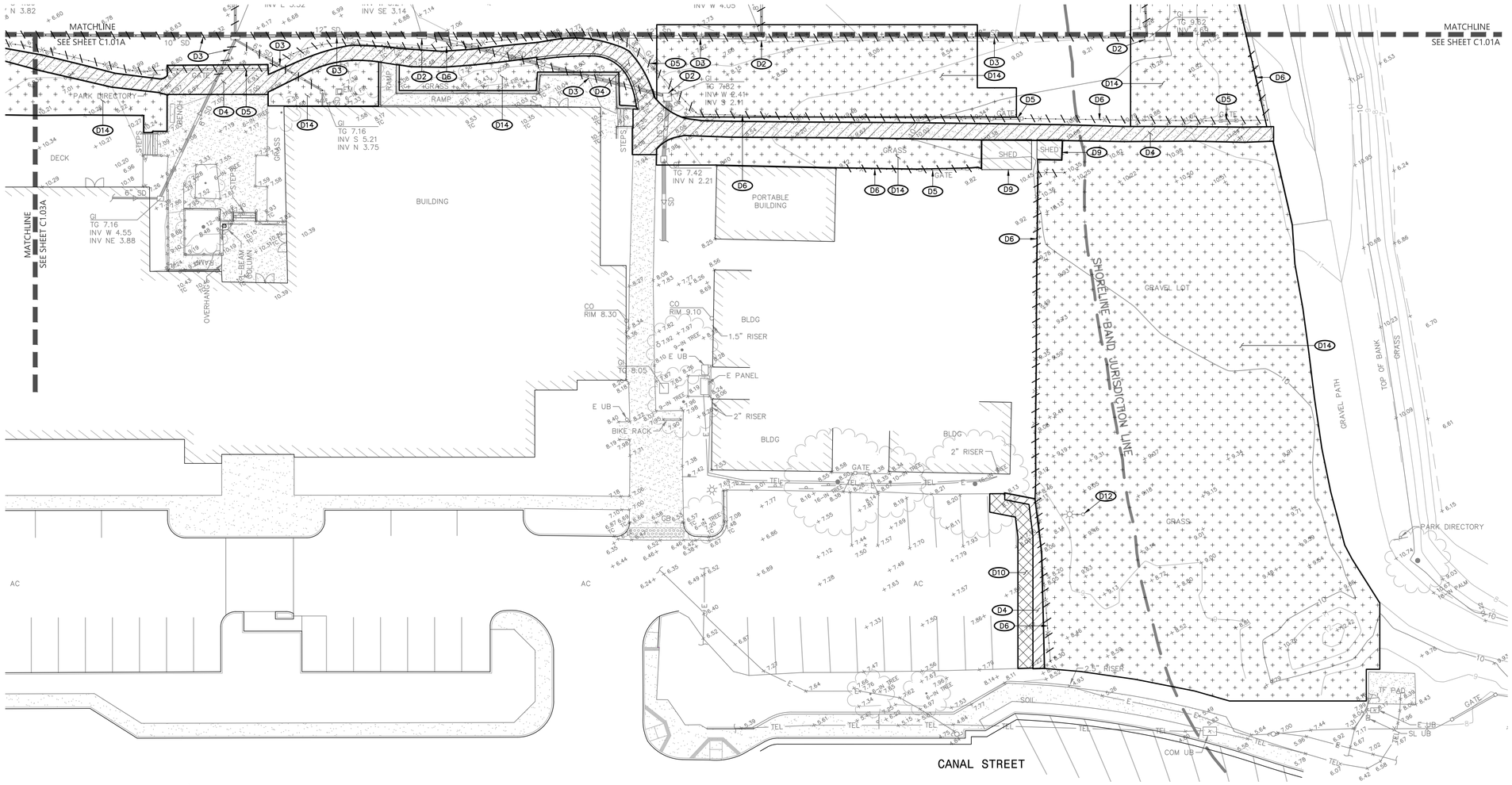
SAN RAFAEL COUNTY OF MARIN CALIFORNIA

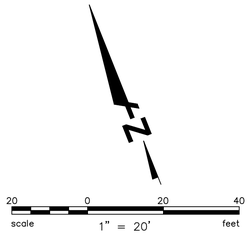
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DEPARTMENT OF PUBLIC WORKS

SCALE: AS SHOWN
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: C1.01A
DRAWING: 2 OF 25

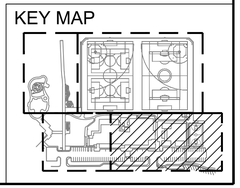




KEYNOTES:

- (D2) REMOVE EXISTING STORM DRAIN INLET AND DISPOSE OF IN ACCORDANCE WITH LOCAL REGULATIONS.
- (D3) ABANDON EXISTING STORM DRAIN IN PLACE. REMOVE EXISTING STORM DRAIN WHERE IN CONFLICT WITH PROPOSED IMPROVEMENTS AND DISPOSE OF IN ACCORDANCE WITH LOCAL REGULATIONS.
- (D4) SAWCUT AND REMOVE EXISTING MATERIAL, TO THE NEAREST CONTROL JOINT WHERE APPLICABLE, AND DISPOSE OF IN ACCORDANCE WITH LOCAL REGULATIONS.
- (D5) REMOVE EXISTING GATE, POSTS & FOUNDATIONS AS REQUIRED TO FACILITATE THE PROPOSED IMPROVEMENTS AND DISPOSE OF IN ACCORDANCE WITH LOCAL REGULATIONS.
- (D6) REMOVE EXISTING FENCE, POSTS & FOUNDATIONS AS REQUIRED TO FACILITATE THE PROPOSED IMPROVEMENTS AND DISPOSE OF IN ACCORDANCE WITH LOCAL REGULATIONS.
- (D9) REMOVE EXISTING BUILDING/STRUCTURE AND DISPOSE OF IN ACCORDANCE WITH LOCAL REGULATIONS.
- (D10) EDGE GRIND EXISTING ASPHALT CONCRETE A MINIMUM WIDTH OF 5-FEET AS REQUIRED TO PROVIDE AN ASPHALT OVERLAY HAVING A MINIMUM DEPTH OF 1-1/2-INCHES, WHICH UNIFORMLY CONFORMS TO THE EXISTING SURFACE ELEVATION AND DOES NOT IMPEDE DRAINAGE.
- (D12) REMOVE EXISTING LIGHT POLE AND DISPOSE OF IN ACCORDANCE WITH LOCAL REGULATIONS.
- (D14) CLEAR AND GRUB AS REQUIRED TO FACILITATE THE PROPOSED IMPROVEMENTS AND LANDSCAPING AREAS. SEE LANDSCAPE DRAWINGS FOR ADDITIONAL INFORMATION.

KEY MAP



NO.	REVISION	BY	DATE

DESIGNED NR
DRAWN CG
CHECKED AD
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
DEMOLITION PLAN - PHASE 1

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

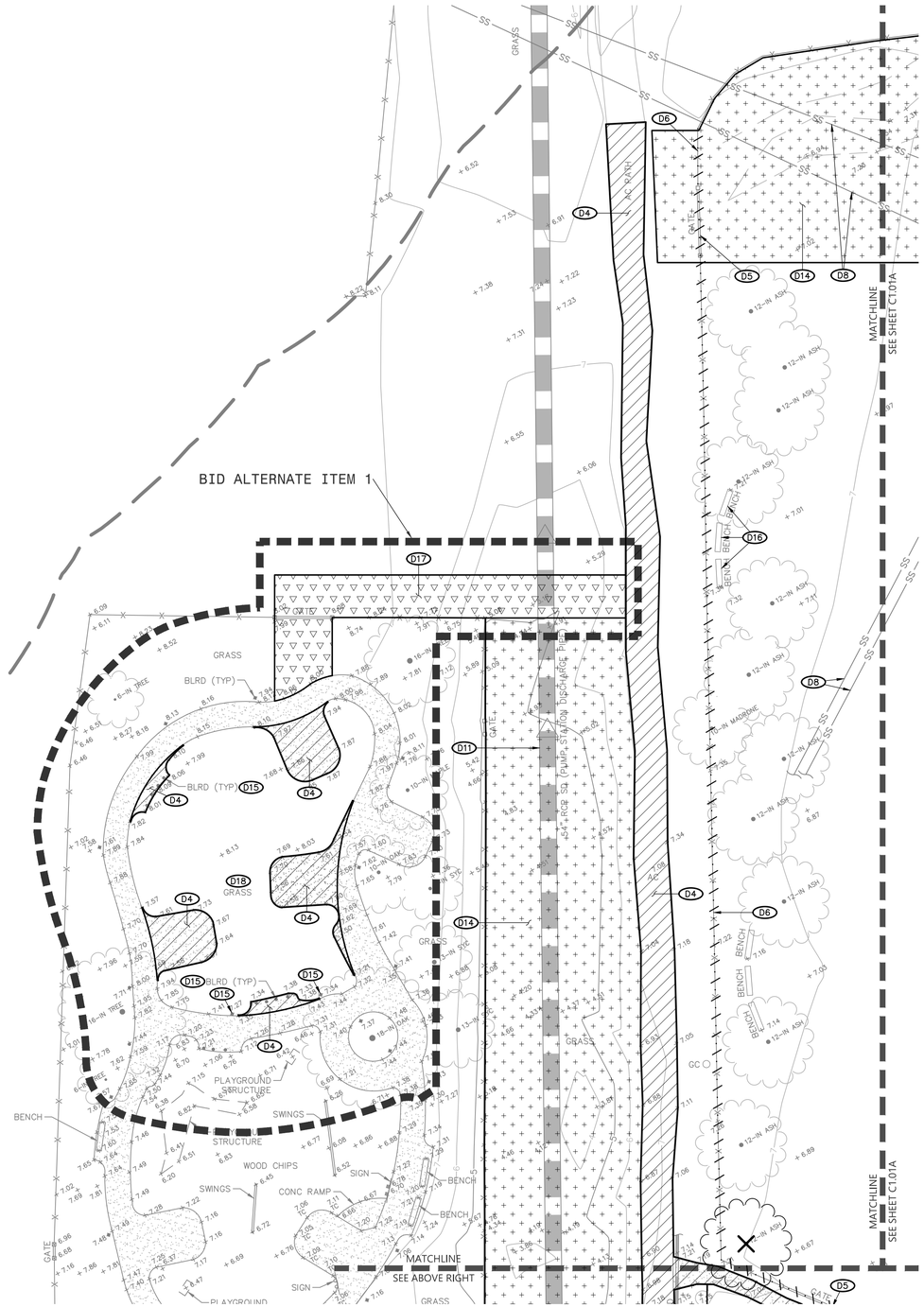
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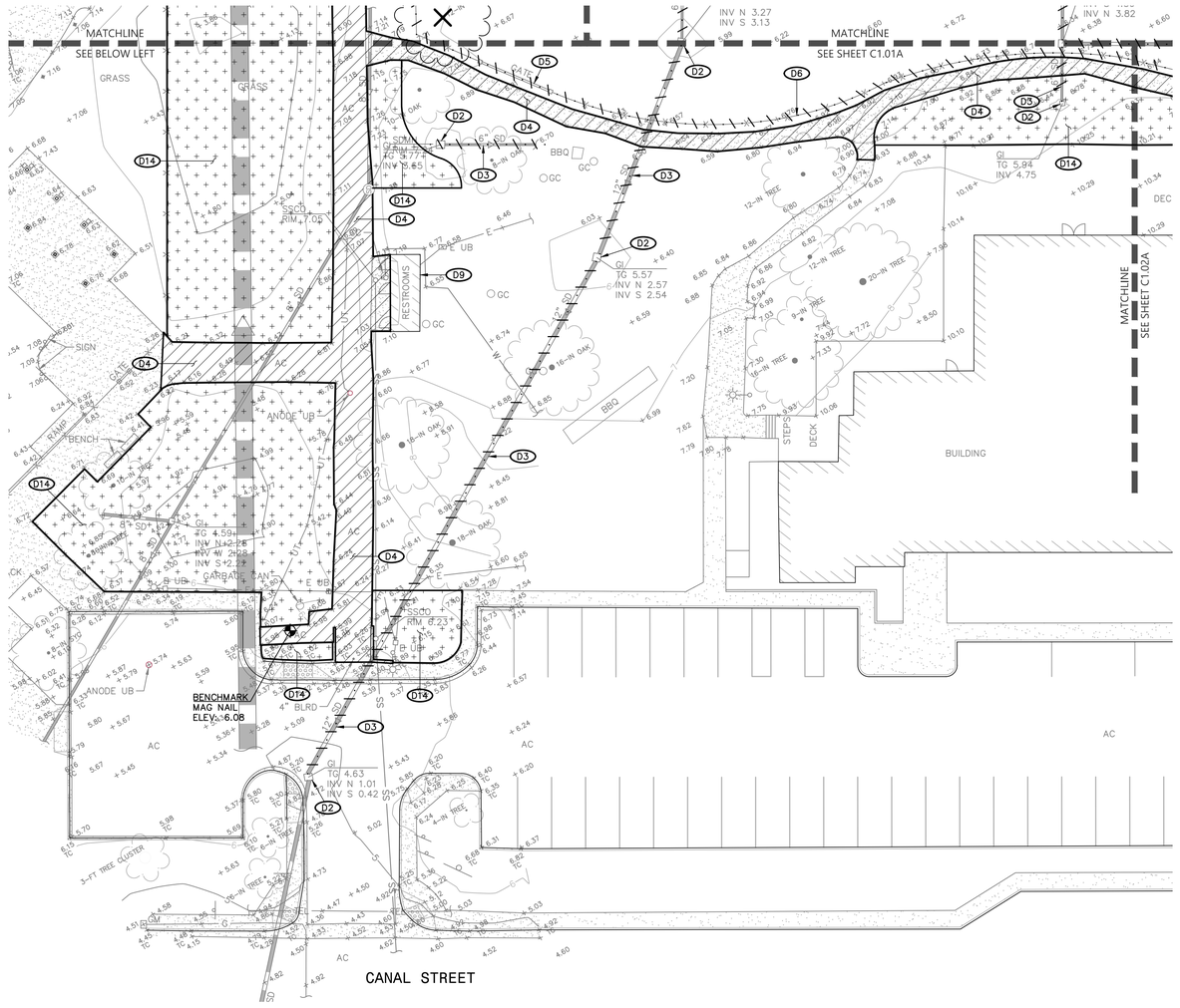
REGISTERED PROFESSIONAL ENGINEER
ANDREW J. DaZURIK
No. C-85129
CIVIL
STATE OF CALIFORNIA

100% CDS
CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE: AS SHOWN
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: C1.02A
DRAWING: 3 OF 25

Plot: May 13, 2024 at 12:30pm
191470-15_SITE.dwg





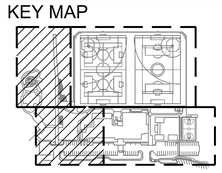
KEYNOTES:

- (D2) REMOVE EXISTING STORM DRAIN INLET AND DISPOSE OF IN ACCORDANCE WITH LOCAL REGULATIONS.
- (D3) ABANDON EXISTING STORM DRAIN IN PLACE. REMOVE EXISTING STORM DRAIN WHERE IN CONFLICT WITH PROPOSED IMPROVEMENTS AND DISPOSE OF IN ACCORDANCE WITH LOCAL REGULATIONS.
- (D4) SAWCUT AND REMOVE EXISTING MATERIAL, TO THE NEAREST CONTROL JOINT WHERE APPLICABLE, AND DISPOSE OF IN ACCORDANCE WITH LOCAL REGULATIONS.
- (D5) REMOVE EXISTING GATE, POSTS & FOUNDATIONS AS REQUIRED TO FACILITATE THE PROPOSED IMPROVEMENTS AND DISPOSE OF IN ACCORDANCE WITH LOCAL REGULATIONS.
- (D6) REMOVE EXISTING FENCE, POSTS & FOUNDATIONS AS REQUIRED TO FACILITATE THE PROPOSED IMPROVEMENTS AND DISPOSE OF IN ACCORDANCE WITH LOCAL REGULATIONS.
- (D8) APPROXIMATE LOCATION OF EXISTING SANITARY SEWER FORCEMAIN. CONTRACTOR TO VERIFY LOCATION IN THE FIELD PRIOR TO ANY EXCAVATION.
- (D9) REMOVE EXISTING BUILDING/STRUCTURE AND DISPOSE OF IN ACCORDANCE WITH LOCAL REGULATIONS.
- (D11) APPROXIMATE LOCATION OF EXISTING STORM DRAIN PUMP STATION DISCHARGE PIPE. CONTRACTOR TO VERIFY LOCATION IN THE FIELD PRIOR TO ANY EXCAVATION.
- (D14) CLEAR AND GRUB AS REQUIRED TO FACILITATE THE PROPOSED IMPROVEMENTS AND LANDSCAPING AREAS. SEE LANDSCAPE DRAWINGS FOR ADDITIONAL INFORMATION.
- (D15) REMOVE EXISTING BOLLARD/POST AS REQUIRED TO FACILITATE THE PROPOSED IMPROVEMENTS.
- (D16) REMOVE/RELOCATE EXISTING BENCHES AT THE OWNERS DISCRETION.
- (D17) CLEAR AND GRUB/HYDROSEED THE CONSTRUCTION ACCESS TO THE PLAY AREA. REPLACE SOD OR HYDROSEED AFTER CONSTRUCTION IS COMPLETE.
- (D18) CLEAR AND GRUB ANY VEGETATION AND REMOVE ANY EXISTING IRRIGATION IN THE PLAY AREA.

N

20 0 20 40
scale 1" = 20' feet

KEY MAP



NO.	REVISION	BY	DATE

DESIGNED NR
DRAWN CG
CHECKED AD
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
DEMOLITION PLAN - PHASE 1

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

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STATE OF CALIFORNIA

100% CDS
CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE: AS SHOWN
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: C1.03A
DRAWING: 4 OF 25

Plot May 13, 2024 at 10:28am
191470-15_SITE.dwg

KEYNOTES:

D2 EXISTING GROUND CONTOURS REFLECT THE COMPLETION OF THE PHASE 1 IMPROVEMENTS AND A FUTURE CONDITION AS SHOWN ON THE "TISCORNIA MARSH RESTORATION AND SLR ADAPTATION" DRAWINGS PREPARED BY ESA DATED 03/30/22.

D3 EXISTING FENCE WILL BE DEMOLISHED WITH THE CONSTRUCTION OF "TISCORNIA MARSH RESTORATION AND SLR ADAPTATION" IMPROVEMENTS. DRAWINGS PREPARED BY ESA DATED 03/30/22.

KEY MAP

scale 1" = 20' (20 0 20 40 feet)

EX 22" SS FORCEMAIN

EX 14" SS FORCEMAIN

SHORELINE BAND JURISDICTION LINE

TOP OF BANK

GRASS

MATCHLINE SEE SHEET C1.02B

MATCHLINE SEE SHEET C1.02B

191470-15_SITE.dwg

Plot May 13, 2024 at 10:20am

NO.	REVISION	BY	DATE

DESIGNED NR
DRAWN CG
CHECKED AD
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
DEMOLITION PLAN PHASE 2 (FIELD)

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

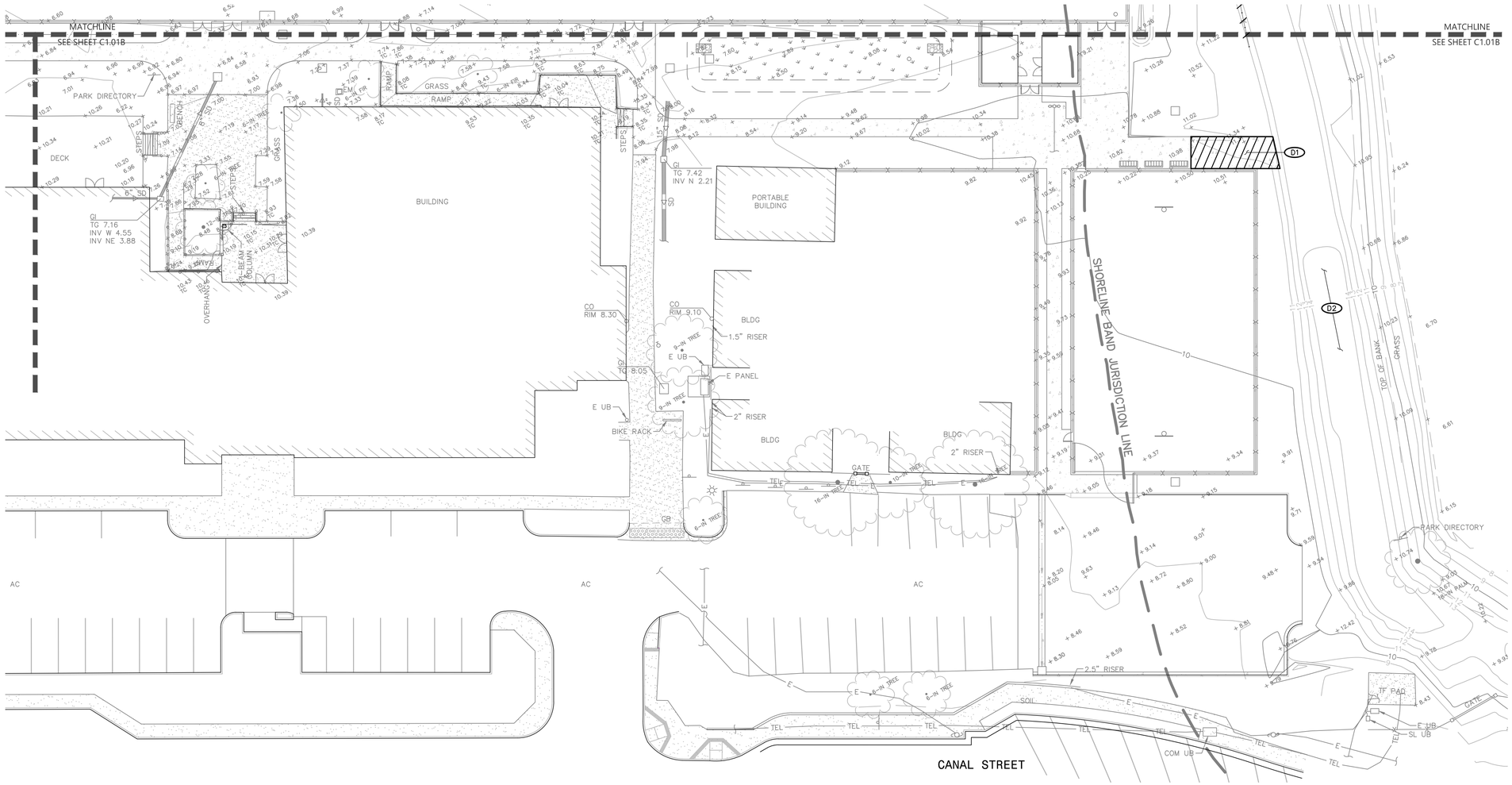
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STATE OF CALIFORNIA

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CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE: AS SHOWN
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: C1.01B
DRAWING: 5 OF 25



N

20 0 20 40

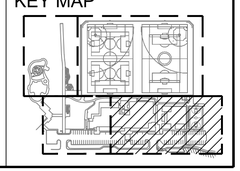
scale 1" = 20' feet

KEYNOTES:

(D1) SAWCUT AND CLEANLY REMOVE EXISTING MATERIAL, TO THE NEAREST CONTROL JOINT WHERE APPLICABLE, AND DISPOSE OF IN ACCORDANCE WITH LOCAL REGULATIONS.

(D2) EXISTING GROUND CONTOURS REFLECT THE COMPLETION OF THE PHASE 1 IMPROVEMENTS AND A FUTURE CONDITION AS SHOWN ON THE "TISCORNIA MARSH RESTORATION AND SLR ADAPTATION" DRAWINGS PREPARED BY ESA DATED 03/30/22.

KEY MAP



NO.	REVISION	BY	DATE

DESIGNED NR
DRAWN CG
CHECKED AD
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
DEMOLITION PLAN - PHASE 2

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

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STATE OF CALIFORNIA

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CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE: AS SHOWN
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: C1.02B
DRAWING: 6 OF 25

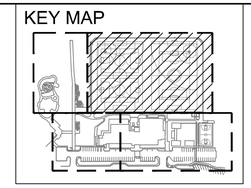
Plot: May 13, 2024 at 10:31am
191470-15_SITE.dwg

KEYNOTES:

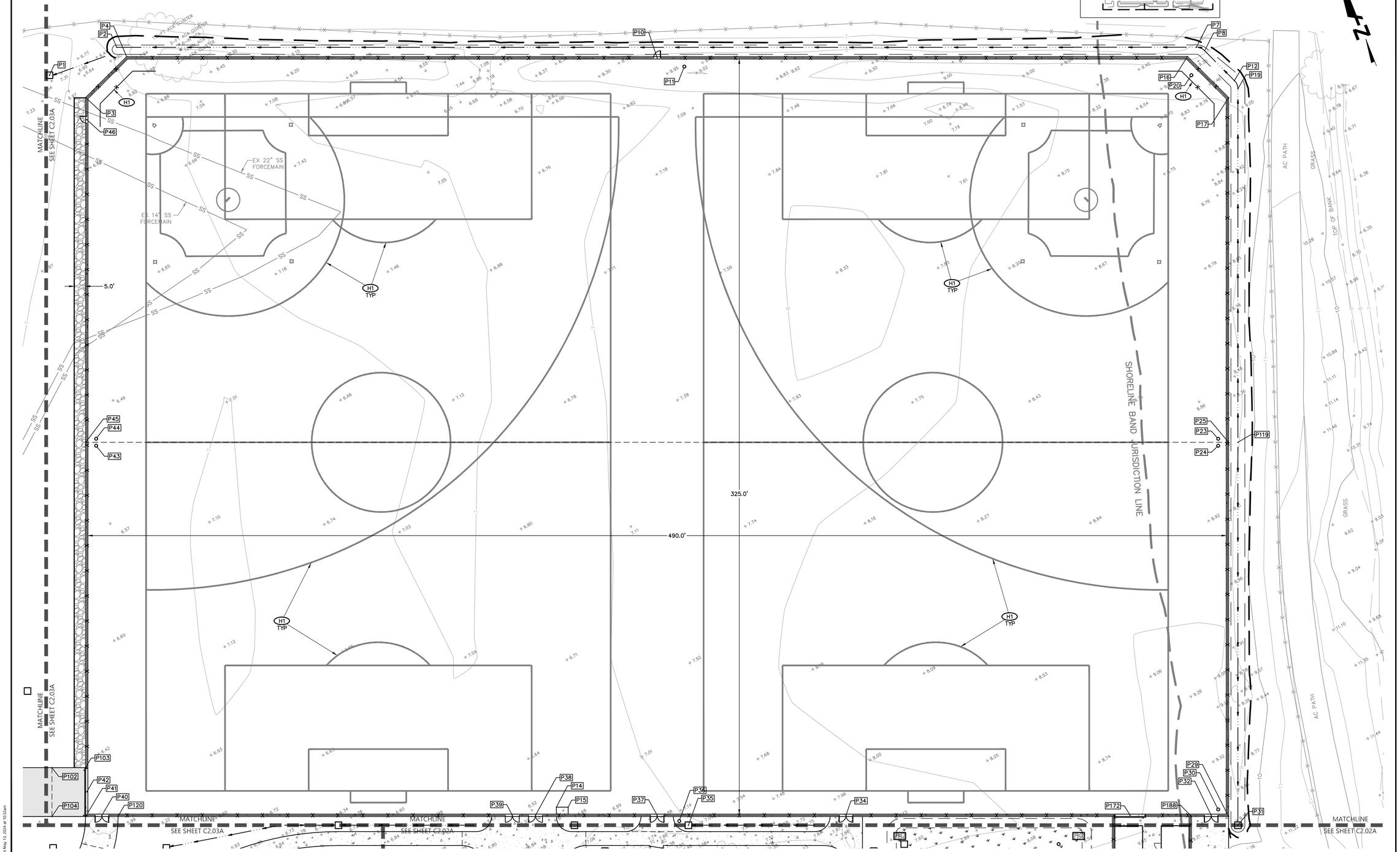
(H1) FIELD STRIPING AND BASEBALL BACKSTOPS. SEE LANDSCAPE DRAWINGS FOR MORE INFORMATION.

NOTE:
FOR HORIZONTAL CONTROL POINT INFORMATION SEE SHEET C2.028.

KEY MAP



scale 1" = 20' (20 0 20 40 feet)



NO.	REVISION	BY	DATE
			DATE

DESIGNED NR
DRAWN CG
CHECKED AD
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
HORIZONTAL CONTROL PLAN PHASE 1 (FIELD)

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

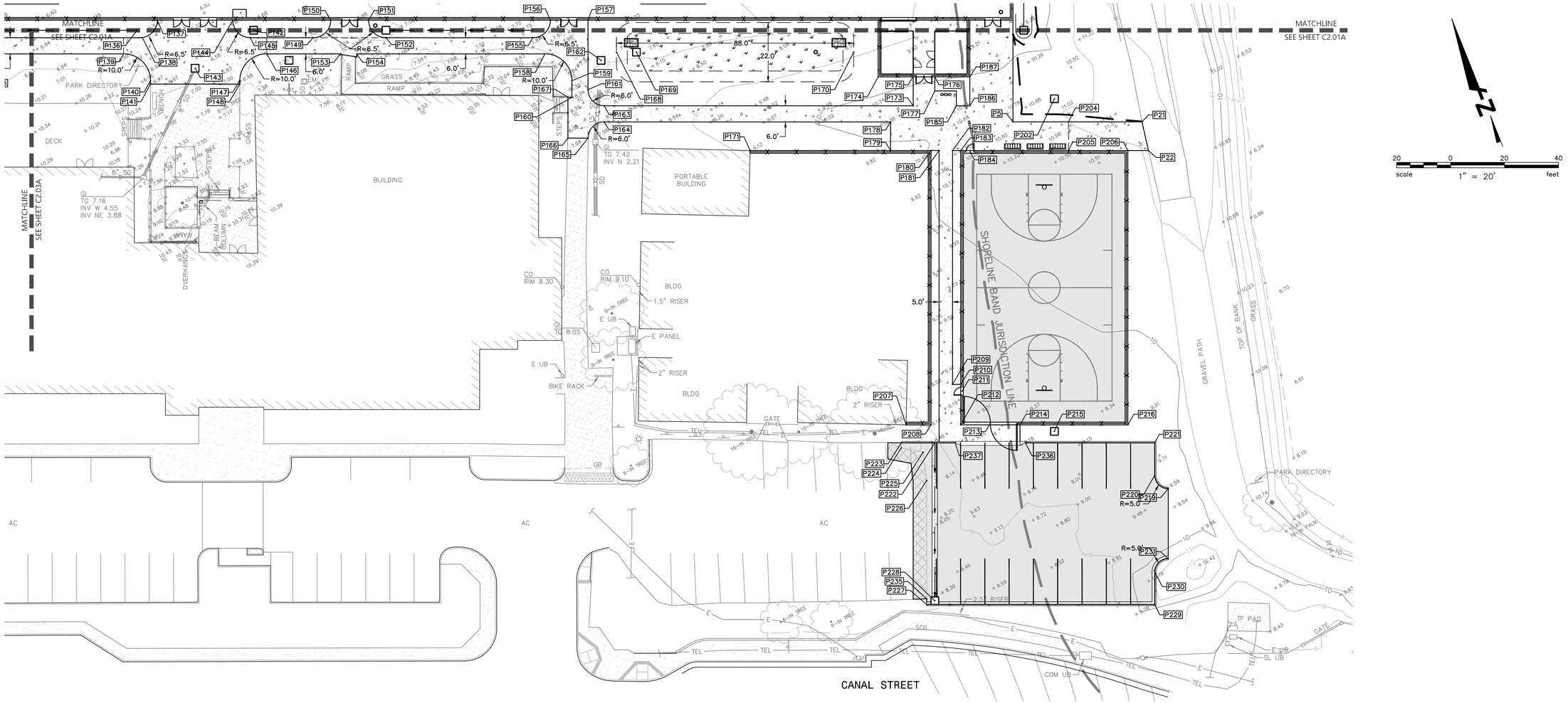
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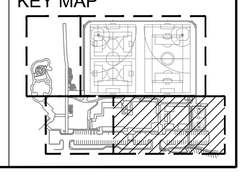
SCALE: AS SHOWN
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: C2.01A
DRAWING: 7 OF 25

Plot May 13, 2024 at 10:22am
191470-15_SITE.dwg



NOTE:
FOR HORIZONTAL CONTROL POINT INFORMATION SEE SHEET C2.028.

KEY MAP



NO.	REVISION	BY	DATE

DESIGNED NR
DRAWN CG
CHECKED AD
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
HORIZONTAL CONTROL PLAN PHASE 1

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

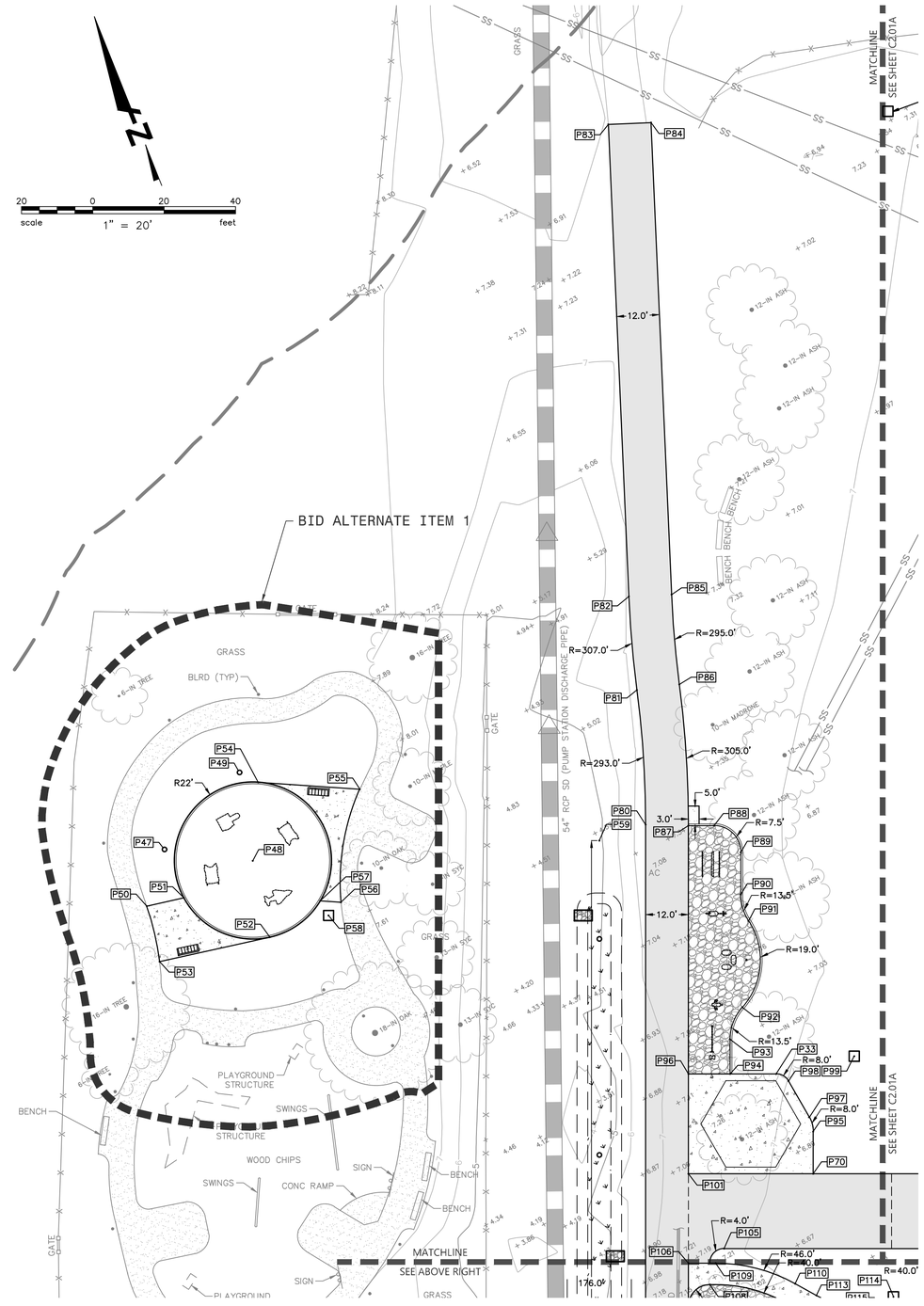
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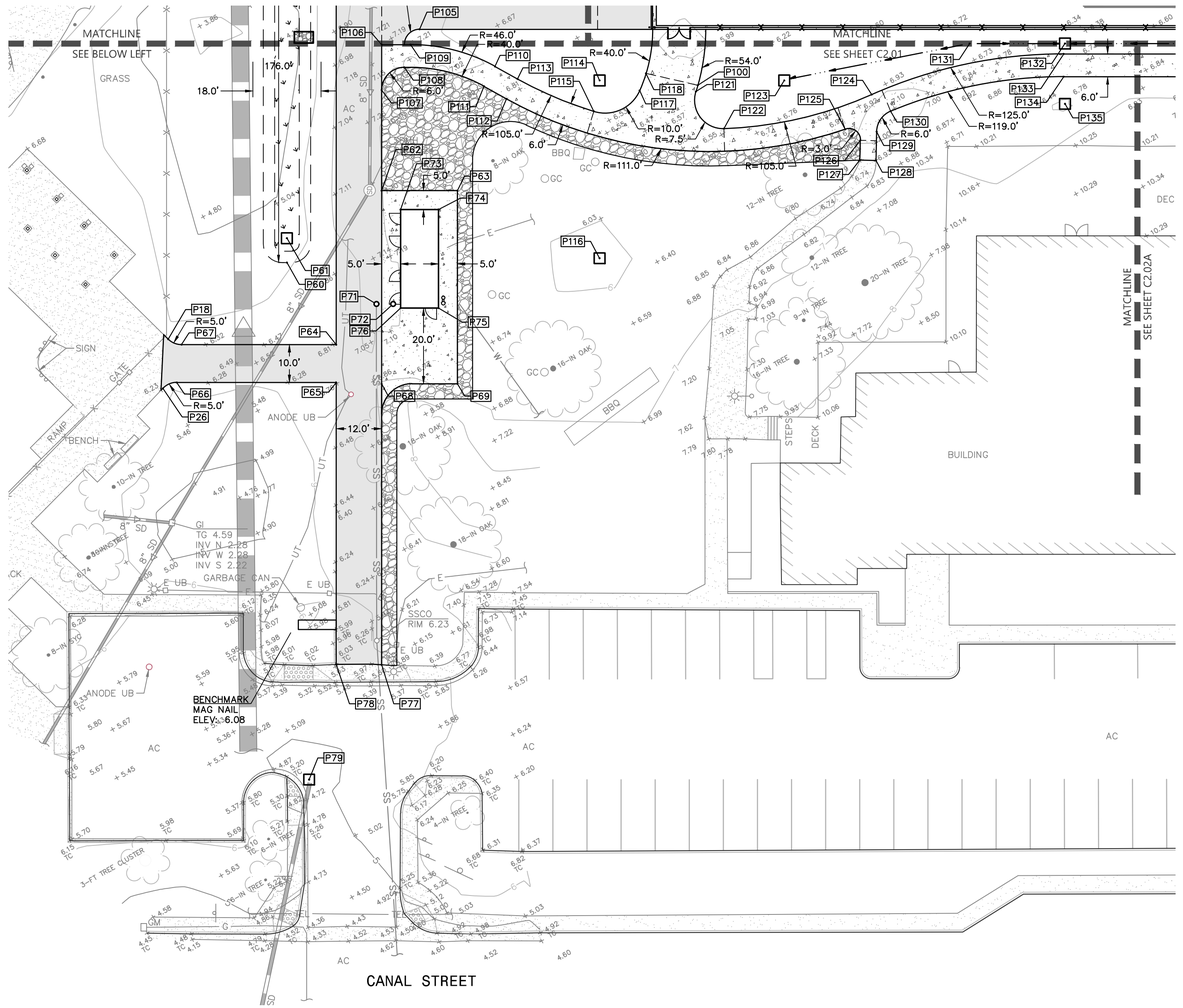
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DEPARTMENT OF PUBLIC WORKS

SCALE: AS SHOWN
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: C2.02A
DRAWING: 8 OF 25

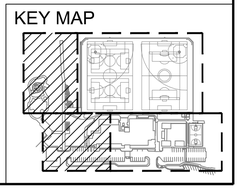
Plot May 13, 2024 at 10:33am
191470-15_SITE.dwg





NOTE:
FOR HORIZONTAL CONTROL POINT INFORMATION SEE SHEET C2.02B.

KEY MAP



NO.	REVISION	BY	DATE

DESIGNED NR
DRAWN CG
CHECKED AD
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
HORIZONTAL CONTROL PLAN PHASE 1

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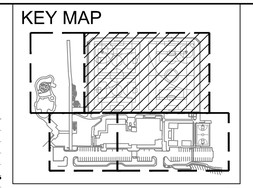
100% CDS
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DEPARTMENT OF PUBLIC WORKS

SCALE: AS SHOWN
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: C2.03A
DRAWING: 9 OF 25

Plot May 13, 2024 at 10:34am
191470-15_SITE.dwg

NOTE:
FOR HORIZONTAL CONTROL POINT INFORMATION SEE SHEET C2.028.

KEY MAP



scale 1" = 20' (20 0 20 40 feet)

N

EX 22" SS FORCEMAIN

EX 14" SS FORCEMAIN

SHORELINE BAND JURISDICTION LINE

TOP OF BANK

GRASS

P2 P7 P8 P12 P19 P119 P190 P192 P193 P194 P195

R=3.0'
R=9.0'

MATCHLINE SEE SHEET C2.05B

MATCHLINE SEE SHEET C2.05B

191470-15_SITE.dwg
Plot May 13, 2024 at 10:35am

NO.	REVISION	BY	DATE

DESIGNED NR
DRAWN CG
CHECKED AD
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
HORIZONTAL CONTROL PLAN PHASE 2 (FIELD)

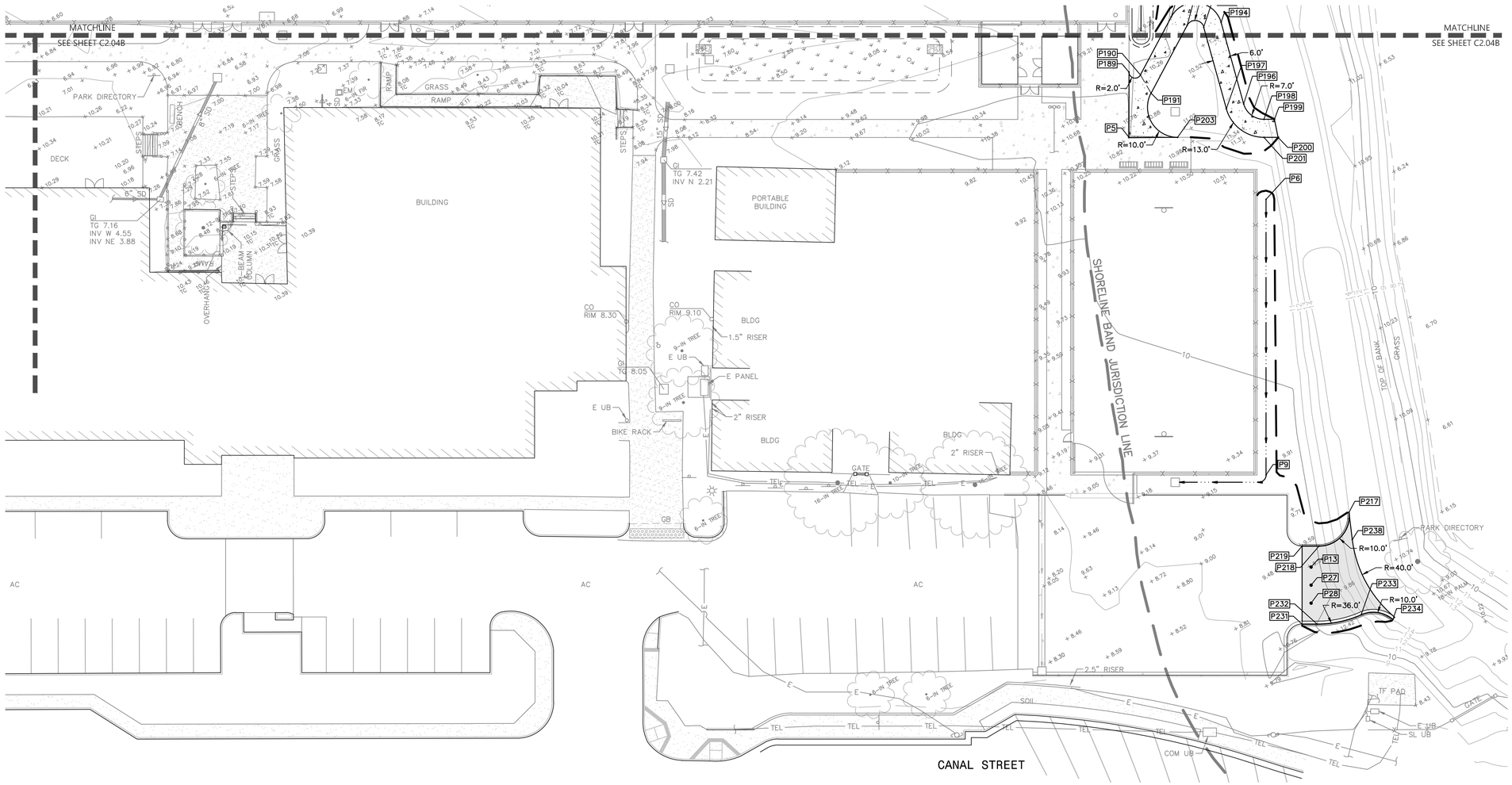
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CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE: AS SHOWN
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: C2.01B
DRAWING: 10 OF 25



HORIZONTAL CONTROL		
PNT NO.	NORTHING	EASTING
1	2181558.78	5985713.52
2	2181559.18	5985744.85
3	2181544.05	5985724.36
4	2181553.89	5985747.31
5	2181039.21	5986052.47
6	2181003.14	5986087.17
7	2181386.74	5986176.43
8	2181384.07	5986179.17
9	2180917.94	5986053.12
10	2181468.71	5985959.16
11	2181460.80	5985968.64
12	2181367.40	5986186.32
13	2180883.91	5986055.66
14	2181185.30	5985799.28
15	2181183.45	5985803.92
16	2181384.45	5986171.39
17	2181361.50	5986181.24
18	2181228.28	5985460.54
19	2181363.57	5986186.37
20	2181376.41	5986169.94
21	2181021.47	5986096.88
22	2181010.72	5986095.15
23	2181226.81	5986122.58
24	2181224.02	5986121.46
25	2181223.75	5986126.20
26	2181216.74	5985454.44

HORIZONTAL CONTROL		
PNT NO.	NORTHING	EASTING
27	2180878.34	5986053.43
28	2180872.77	5986051.20
29	2181074.24	5986066.46
30	2181078.69	5986063.40
31	2181069.27	5986068.78
32	2181077.49	5986059.68
33	2181319.69	5985584.21
34	2181135.81	5985913.71
35	2181157.03	5985849.15
36	2181160.14	5985846.09
37	2181165.98	5985838.19
38	2181185.39	5985789.61
39	2181189.10	5985780.32
40	2181254.65	5985616.27
41	2181256.79	5985609.57
42	2181266.48	5985614.00
43	2181403.23	5985672.94
44	2181406.02	5985674.05
45	2181406.30	5985669.32
46	2181535.04	5985721.30
47	2181441.81	5985448.20
48	2181429.69	5985470.05
49	2181454.09	5985475.77
50	2181428.92	5985437.71
51	2181427.21	5985448.24
52	2181408.02	5985466.57

HORIZONTAL CONTROL		
PNT NO.	NORTHING	EASTING
53	2181413.11	5985435.30
54	2181449.57	5985479.62
55	2181437.18	5985505.40
56	2181409.70	5985488.70
57	2181412.23	5985483.42
58	2181407.56	5985484.10
59	2181398.88	5985562.43
60	2181235.44	5985497.13
61	2181241.40	5985499.51
62	2181243.80	5985527.39
63	2181236.37	5985545.96
64	2181210.48	5985501.16
65	2181201.22	5985497.45
66	2181216.83	5985458.37
67	2181225.65	5985463.26
68	2181196.44	5985508.47
69	2181189.02	5985527.04
70	2181289.83	5985583.47
71	2181216.51	5985515.00
72	2181214.88	5985519.07
73	2181237.30	5985530.18
74	2181233.59	5985539.46
75	2181209.44	5985529.82
76	2181213.15	5985520.53
77	2181127.59	5985480.96
78	2181132.13	5985469.87

HORIZONTAL CONTROL		
PNT NO.	NORTHING	EASTING
79	2181106.56	5985451.95
80	2181398.20	5985576.16
81	2181434.19	5985587.91
82	2181459.41	5985595.53
83	2181584.48	5985639.30
84	2181580.52	5985650.63
85	2181455.44	5985606.86
86	2181431.22	5985599.53
87	2181393.51	5985587.21
88	2181390.86	5985593.86
89	2181381.11	5985598.05
90	2181370.09	5985593.64
91	2181362.42	5985592.95
92	2181340.59	5985582.30
93	2181333.53	5985575.80
94	2181324.49	5985572.19
95	2181300.84	5985587.87
96	2181328.82	5985561.36
97	2181304.96	5985588.36
98	2181316.55	5985586.69
99	2181316.21	5985606.39
100	2181238.65	5985615.18
101	2181302.82	5985550.97
102	2181281.67	5985603.91
103	2181276.29	5985617.36
104	2181262.17	5985596.12

HORIZONTAL CONTROL		
PNT NO.	NORTHING	EASTING
105	2181279.61	5985552.46
106	2181279.55	5985541.67
107	2181268.40	5985537.22
108	2181271.75	5985545.02
109	2181276.71	5985548.77
110	2181263.10	5985567.33
111	2181259.30	5985562.68
112	2181254.04	5985566.98
113	2181257.83	5985571.63
114	2181249.44	5985591.58
115	2181242.42	5985587.16
116	2181205.87	5985574.18
117	2181243.07	5985600.43
118	2181246.64	5985603.66
119	2181222.26	5986129.91
120	2181251.60	5985622.57
121	2181237.30	5985614.10
122	2181225.47	5985617.35
123	2181231.35	5985636.85
124	2181219.33	5985656.87
125	2181213.41	5985647.02
126	2181209.24	5985649.62
127	2181204.42	5985647.56
128	2181202.75	5985651.49
129	2181209.76	5985654.48
130	2181213.40	5985659.91

HORIZONTAL CONTROL		
PNT NO.	NORTHING	EASTING
131	2181222.25	5985685.90
132	2181212.92	5985709.27
133	2181210.49	5985707.93
134	2181204.92	5985705.70
135	2181198.13	5985703.38
136	2181191.28	5985763.42
137	2181191.98	5985771.78
138	2181187.98	5985764.26
139	2181185.03	5985755.49
140	2181172.03	5985761.07
141	2181170.90	5985760.62
142	2181175.24	5985803.58
143	2181170.20	5985778.19
144	2181181.59	5985797.78
145	2181173.14	5985801.41
146	2181165.30	5985804.86
147	2181159.73	5985791.86
148	2181158.60	5985791.41
149	2181164.49	5985823.06
150	2181168.12	5985831.51
151	2181162.92	5985844.51
152	2181154.47	5985848.13
153	2181155.19	5985830.17
154	2181152.92	5985835.84
155	2181134.29	5985898.65
156	2181137.91	5985907.09

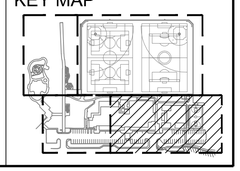
HORIZONTAL CONTROL		
PNT NO.	NORTHING	EASTING
157	2181132.72	5985920.09
158	2181127.05	5985900.60
159	2181114.05	5985906.17
160	2181108.35	5985903.89
161	2181108.81	5985910.54
162	2181117.07	5985919.07
163	2181101.01	5985913.89
164	2181095.44	5985911.66
165	2181092.09	5985903.86
166	2181094.86	5985896.94
167	2181108.96	5985902.58
168	2181117.78	5985925.49
169	2181115.02	5985932.38
170	2181085.12	5986007.21
171	2181065.53	5985957.97
172	2181090.45	5986027.24
173	2181058.48	5986020.32
174	2181073.29	5986012.24
175	2181068.47	5986024.31
176	2181065.50	5986031.74
177	2181060.62	5986029.79
178	2181056.03	5986010.30
179	2181046.19	5986006.37
180	2181040.62	5986020.30
181	2181039.51	5986023.09
182	2181037.66	5986027.73

HORIZONTAL CONTROL		
PNT NO.	NORTHING	EASTING
183	2181036.54	5986030.52
184	2181034.78	5986033.58
185	2181052.55	5986035.18
186	2181050.69	5986039.82
187	2181060.67	5986043.81
188	2181080.17	5986051.60
189	2181059.38	5986060.52
190	2181057.11	5986063.67
191	2181050.14	5986064.72
192	2181071.21	5986080.35
193	2181066.63	5986084.23
194	2181063.36	5986095.11
195	2181064.01	5986089.15
196	2181035.39	5986092.03
197	2181036.05	5986086.06
198	2181028.13	5986096.39
199	2181026.83	5986099.62
200	2181020.81	5986098.53
201	2181022.55	5986094.16
202	2181041.46	5986069.90
203	2181033.22	5986067.47
204	2181031.58	5986071.57
205	2181021.71	5986067.63
206	2181013.54	5986088.09
207	2180949.56	5985973.98
208	2180946.13	5985982.55

HORIZONTAL CONTROL		
PNT NO.	NORTHING	EASTING
209	2180957.10	5985995.54
210	2180955.98	5985998.33
211	2180953.48	5985997.86
212	2180942.05	5985992.76
213	2180938.44	5986003.16
214	2180933.89	5986013.19
215	2180926.92	5986024.13
216	2180919.05	5986050.34
217	2180896.16	5986074.10
218	2180889.43	5986060.72
219	2180891.52	5986055.47
220	2180898.02	5986052.68
221	2180909.17	5986057.13
222	2180939.44	5985981.37
223	2180944.03	5985969.87
224	2180942.29	5985969.17
225	2180937.84	5985976.09
226	2180927.55	5985973.39
227	2180884.83	5985956.33
228	2180885.03	5985959.64
229	2180853.45	5986034.87
230	2180864.59	5986039.32
231	2180867.38	5986045.82
232	2180865.51	5986050.50
233	2180862.97	5986061.18
234	2180857.61	5986074.41

HORIZONTAL CONTROL		
PNT NO.	NORTHING	EASTING
235	2180886.79	5985957.11
236	2180926.97	5986012.58
237	2180936.61	5985988.44
238	2180887.36	5986071.78

KEY MAP



NO.	REVISION	BY	DATE

DESIGNED NR
DRAWN CG
CHECKED AD
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
HORIZONTAL CONTROL PLAN PHASE 2

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ANDREW J. DeZURIK
No. C-85129
CIVIL
STATE OF CALIFORNIA

100% CDS
CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE: AS SHOWN
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: C2.02B
DRAWING: 11 OF 25

Plot May 13, 2024 at 10:27am
191470-15_SITE.dwg

KEYNOTES:

(G2) SPORTS FIELD SURFACING. SEE DETAIL 7, SHEET C-500 AND LANDSCAPE DRAWINGS FOR MORE INFORMATION.

(G3) NEW FENCE AND GATES. SEE LANDSCAPE DRAWINGS FOR MORE INFORMATION.

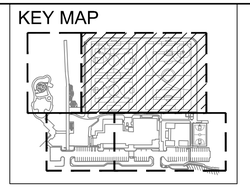
(G4) STABILIZED DECOMPOSED GRANITE. 6-INCHES CLASS II AGGREGATE BASE COMPACTED TO 95% RELATIVE COMPACTION. SCARIFY AND RECOMPACT THE UPPER 6-INCHES OF NATIVE SOIL TO 95% RELATIVE COMPACTION.

(G12) INSTALL TEMPORARY 12" TALL KICKER BOARD AT THE BASE OF EXISTING FENCE, SEE LANDSCAPE DRAWINGS FOR ADDITIONAL INFORMATION.

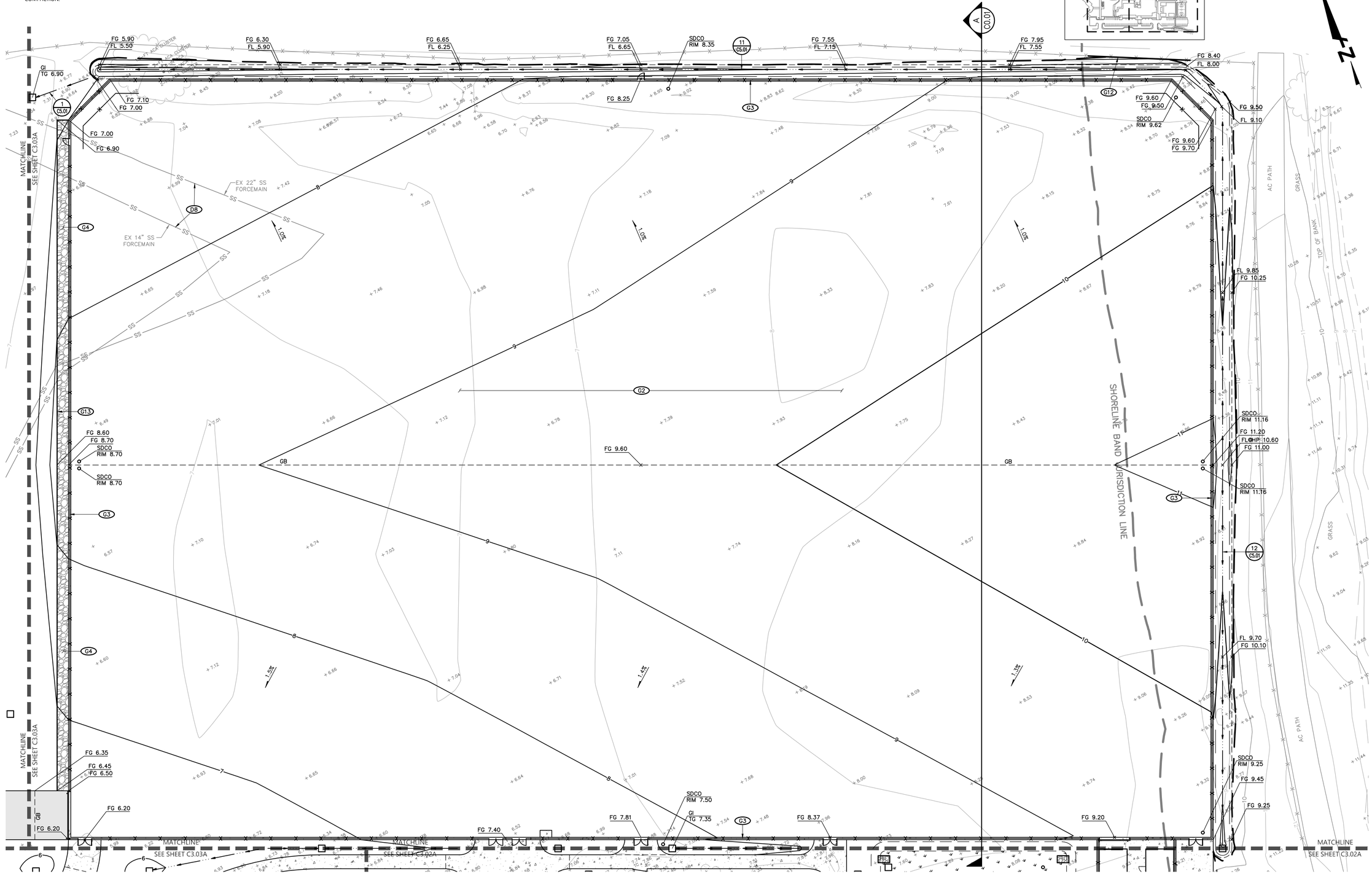
(G13) REDWOOD HEADER. SEE LANDSCAPE DRAWINGS OF ADDITIONAL INFORMATION.

(D8) APPROXIMATE LOCATION OF EXISTING SANITARY SEWER FORCEMAIN. CONTRACTOR TO VERIFY LOCATION IN THE FIELD PRIOR TO ANY EXCAVATION.

KEY MAP



scale 1" = 20' (20 0 20 40 feet)



NO.	REVISION	BY	DATE

DESIGNED NR
DRAWN CG
CHECKED AD
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
GRADING PLAN - PHASE 1 (FIELD)

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

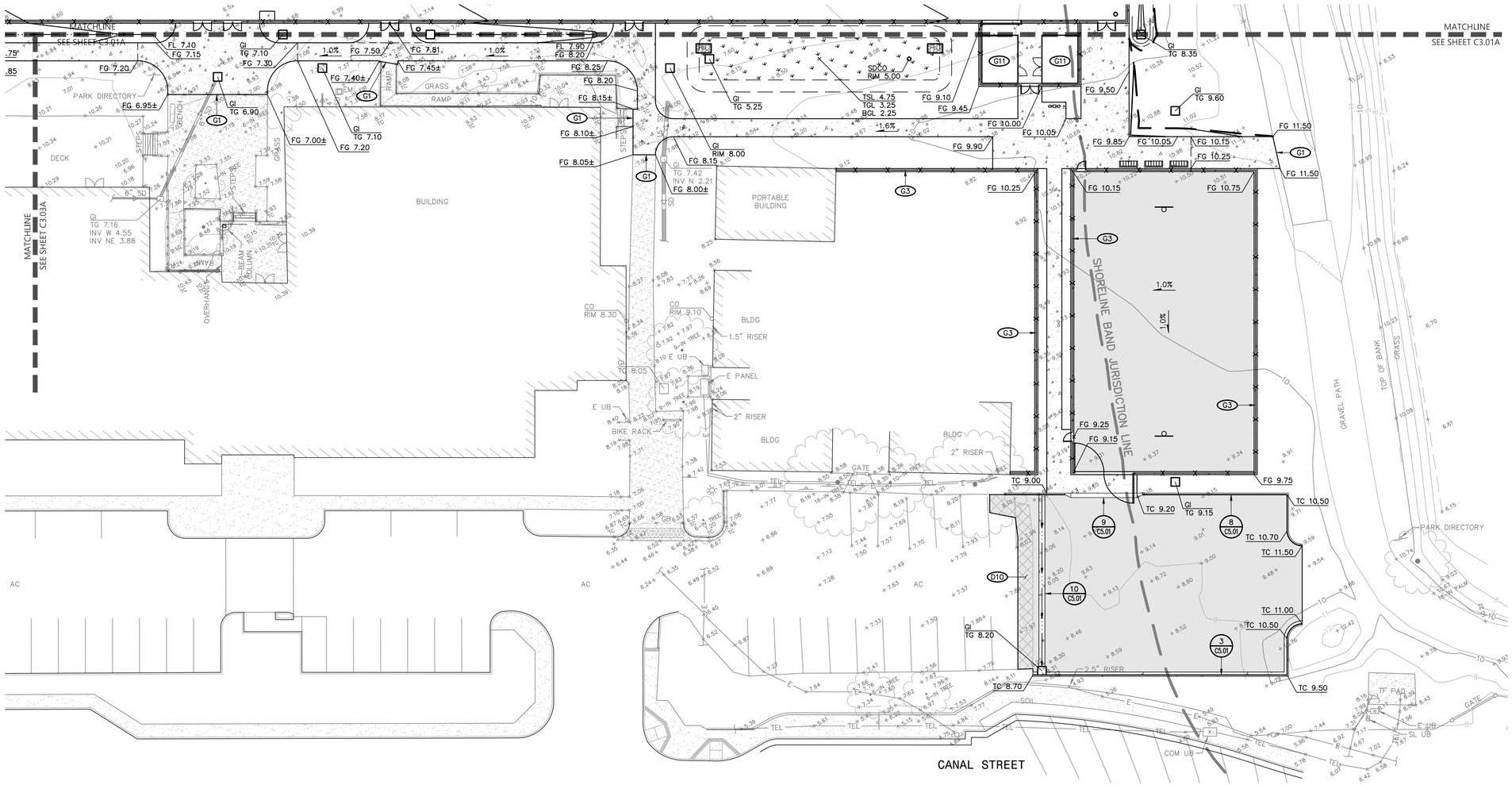
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CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE: AS SHOWN
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: C3.01A
DRAWING: 12 OF 25

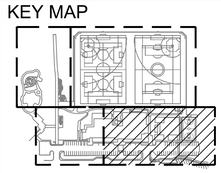
Plot May 13, 2024 at 10:39am
191470-15_SITE.dwg



KEYNOTES:

- (G1) CONFORM TO EXISTING SURFACE ELEVATION IN A MANNER WHICH GENERATES A UNIFORM TRANSITION BETWEEN SURFACES AND DOES NOT IMPEDE DRAINAGE. SEE DETAIL 6, SHEET C-500.
- (G3) NEW FENCE AND GATES. SEE LANDSCAPE DRAWINGS FOR MORE INFORMATION.
- (G11) STORAGE SHED, SEE LANDSCAPE DRAWINGS FOR ADDITIONAL INFORMATION.
- (D10) EDGE GRIND EXISTING ASPHALT CONCRETE A MINIMUM WIDTH OF 5-FEET AS REQUIRED TO PROVIDE AN ASPHALT OVERLAY HAVING A MINIMUM DEPTH OF 1-1/2-INCHES, WHICH UNIFORMLY CONFORMS TO THE EXISTING SURFACE ELEVATION AND DOES NOT IMPEDE DRAINAGE.

KEY MAP



NO.	REVISION	BY	DATE

DESIGNED NR
DRAWN CG
CHECKED AD
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
GRADING PLAN - PHASE 1

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

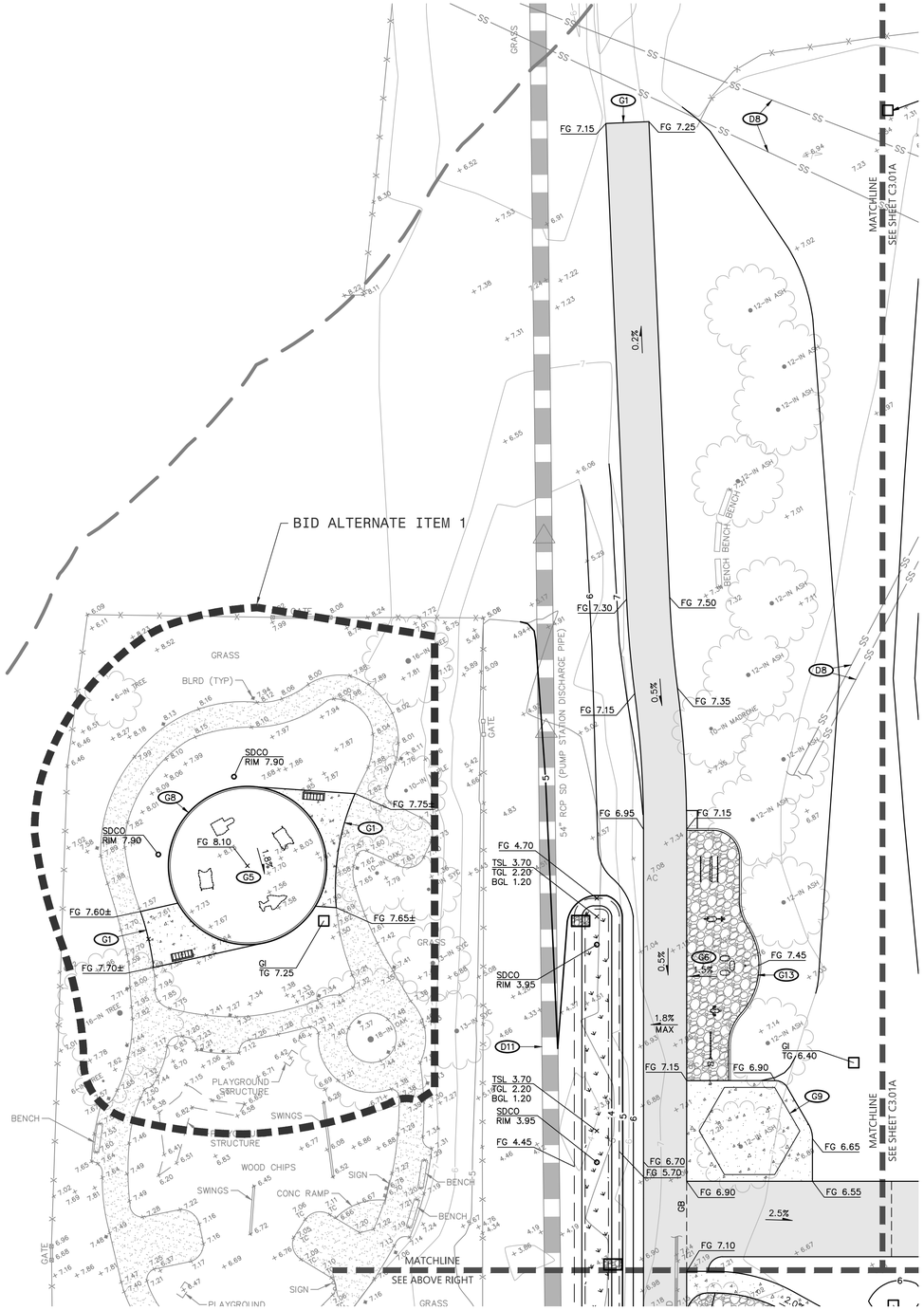
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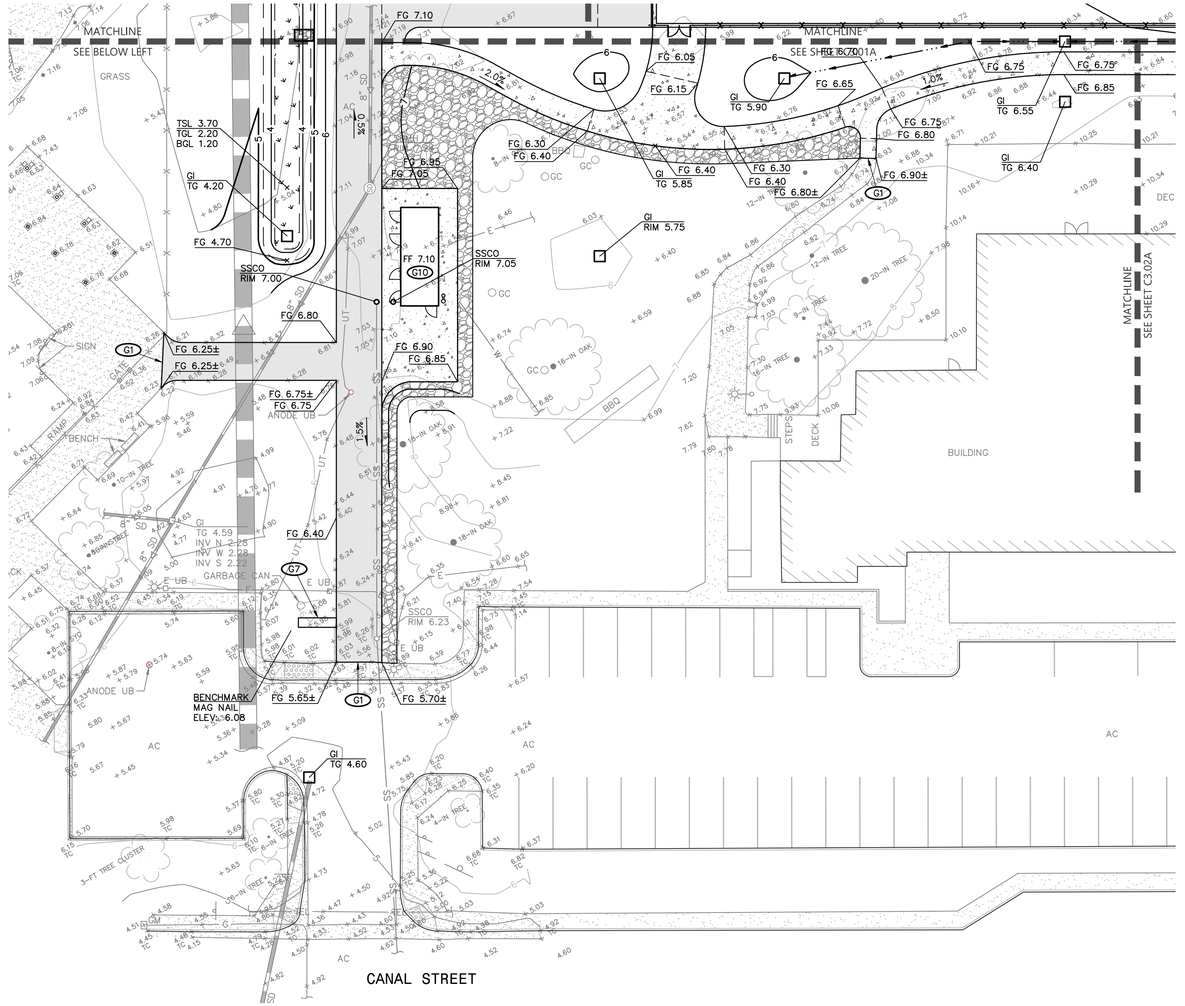
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STATE OF CALIFORNIA

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CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE: AS SHOWN
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: C3.02A
DRAWING: 13 OF 25

Plot May 13, 2024 at 10:39am
191470-15_SITE.dwg





KEYNOTES:

(G1) CONFORM TO EXISTING SURFACE ELEVATION IN A MANNER WHICH GENERATES A UNIFORM TRANSITION BETWEEN SURFACES AND DOES NOT IMPEDE DRAINAGE. SEE DETAIL 6, SHEET C-500.

(G5) PLAYGROUND AREA. SEE LANDSCAPE DRAWINGS FOR ADDITIONAL INFORMATION.

(G6) ADULT FITNESS AREA. SEE LANDSCAPE DRAWINGS FOR ADDITIONAL INFORMATION.

(G7) MONUMENT SIGN. SEE LANDSCAPE DRAWINGS FOR ADDITIONAL INFORMATION.

(G8) FLUSH PERIMETER CURB. SEE LANDSCAPE DRAWINGS FOR ADDITIONAL INFORMATION.

(G9) GAZEBO, SEE LANDSCAPE DRAWINGS FOR ADDITIONAL INFORMATION.

(G10) BATHROOMS, SEE LANDSCAPE DRAWINGS FOR ADDITIONAL INFORMATION.

(G13) REDWOOD HEADER. SEE LANDSCAPE DRAWINGS OF ADDITIONAL INFORMATION.

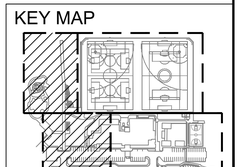
(D8) APPROXIMATE LOCATION OF EXISTING SANITARY SEWER FORCEMAIN. CONTRACTOR TO VERIFY LOCATION IN THE FIELD PRIOR TO ANY EXCAVATION.

(D11) APPROXIMATE LOCATION OF EXISTING STORM DRAIN PUMP STATION DISCHARGE PIPE. CONTRACTOR TO VERIFY LOCATION IN THE FIELD PRIOR TO ANY EXCAVATION.

N

20 0 20 40
scale 1" = 20' feet

KEY MAP



NO.	REVISION	BY	DATE

DESIGNED NR
DRAWN CG
CHECKED AD
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
GRADING PLAN - PHASE 1

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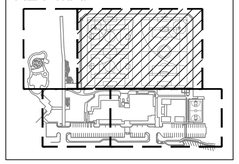
SCALE:	AS SHOWN
DATE:	05/15/24
CITY PROJECT NO.:	11376
SHEET NO.:	C3.03A
DRAWING:	14 OF 25

Plot May 13, 2024 at 10:41am
191470-15_SITE.dwg

KEYNOTES:

(G3) EXISTING GROUND CONTOURS REFLECT A FUTURE CONDITION AS SHOWN ON THE "TISCORNIA MARSH RESTORATION AND SLR ADAPTATION" DRAWINGS PREPARED BY ESA DATED 03/30/22.

KEY MAP



scale 1" = 20' (20 0 20 40 feet)

FG 7.10
FL 6.50
FG 7.10
FG 7.50
FL 6.90
FG 7.85
FL 7.25
12
C5.01
FG 8.25
FL 7.65
FG 8.25
FG 8.75
FL 8.15
FG 9.15
FL 8.55
FG 9.60
FL 9.00
FG 9.60
FG 9.70
FL 9.10
FG 9.70
FL 9.85
FG 10.45
FLOW 10.60
FG 11.20
FG 11.20
12
C5.01
FL 9.70
FG 10.30
FG 9.45
FG 9.45
FG 10.65
FG 11.20

EX 22" SS FORCEMAIN
EX 14" SS FORCEMAIN
SHORELINE BAND JURISDICTION LINE
GRASS
TOP OF BANK
MATCHLINE SEE SHEET C3.02B
MATCHLINE SEE SHEET C3.02B

NO.	REVISION	BY	DATE

DESIGNED NR
DRAWN CG
CHECKED AD
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
GRADING PLAN - PHASE 2 (FIELD)

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

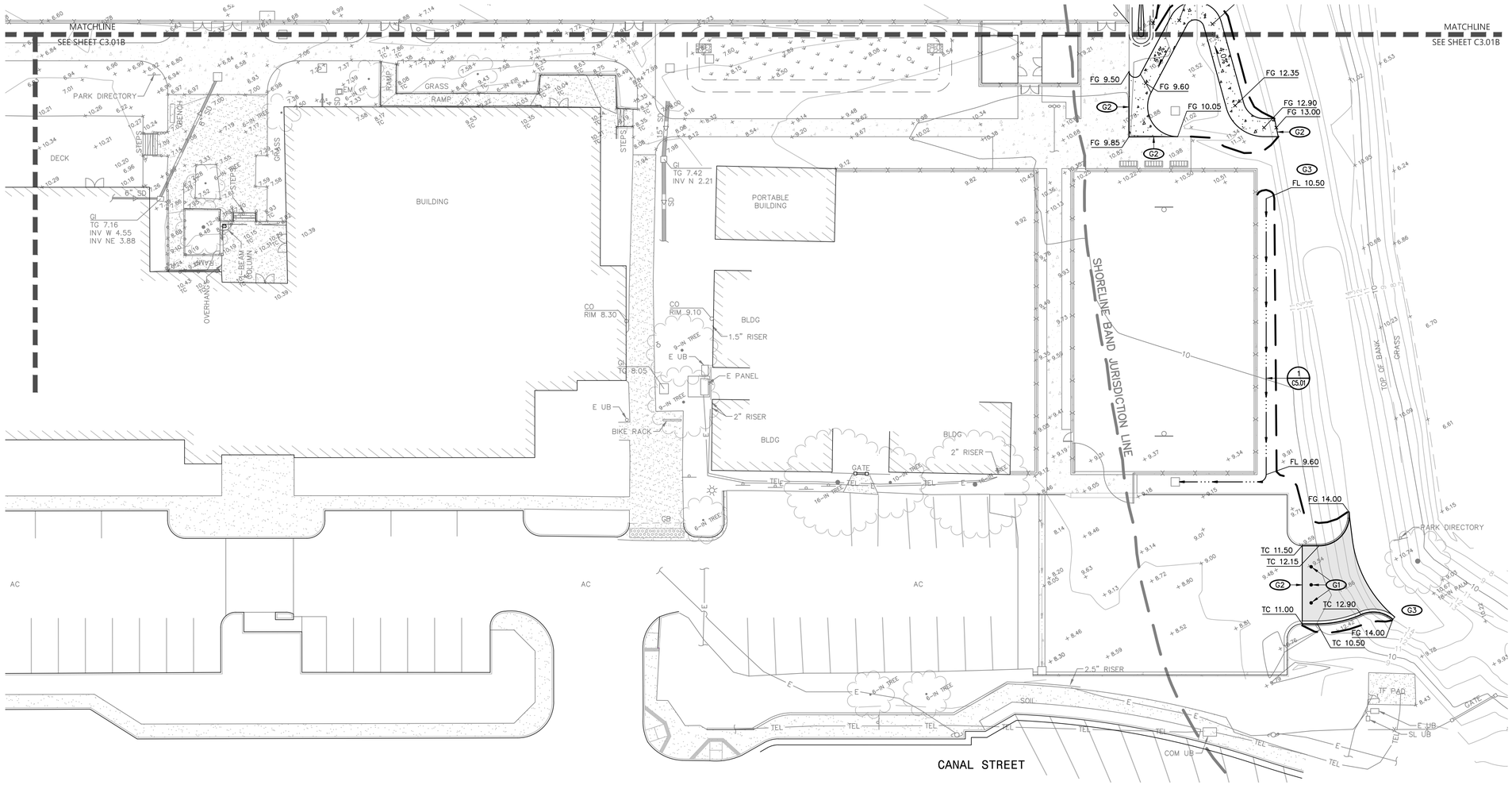
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CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE: AS SHOWN
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: C3.01B
DRAWING: 15 OF 25

Plot May 13, 2024 at 11:30am
191470-15_SITE.dwg



N

20 0 20 40
scale 1" = 20' feet

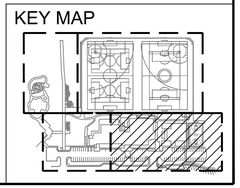
KEYNOTES:

(G1) REMOVABLE BOLLARD. SEE LANDSCAPE DRAWINGS FOR ADDITIONAL INFORMATION.

(G2) CONFORM TO EXISTING SURFACE ELEVATION IN A MANNER WHICH GENERATES A UNIFORM TRANSITION BETWEEN SURFACES AND DOES NOT IMPEDE DRAINAGE.

(G3) EXISTING GROUND CONTOURS REFLECT A FUTURE CONDITION AS SHOWN ON THE "TISCORNIA MARSH RESTORATION AND SLR ADAPTATION" DRAWINGS PREPARED BY ESA DATED 03/30/22.

KEY MAP



NO.	REVISION	BY	DATE

DESIGNED NR
DRAWN CG
CHECKED AD
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
GRADING PLAN - PHASE 2

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DEPARTMENT OF PUBLIC WORKS

SCALE: AS SHOWN
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: C3.02B
DRAWING: 16 OF 25

Plot May 13, 2024 at 11:53am
191470-15_SITE.dwg

KEY MAP

scale 1" = 20' (20 0 20 40 feet)

N

TG 6.90
INV 3.85
2 C5.01

INV 5.35

8" SD-20'
S=0.030 MIN

SDCO
RIM 8.35
INV 6.15
4 C5.01

6" PERF SD-472'
S=0.004

5 C5.01

SDCO
RIM 9.62
INV 7.25
4 C5.01

MATCHLINE
SEE SHEET C4.03A

EX 22" SS
FORCEMAIN

EX 14" SS
FORCEMAIN

6" PERF SD-159'
S=0.010

6" PERF SD 164'
S=0.006

AC PATH

GRASS

TOP OF BANK

SHORELINE BAND JURISDICTION LINE

SDCO
RIM 11.16
INV 9.75
4 C5.01

SDCO
RIM 8.70
INV 7.35
4 C5.01

SDCO
RIM 8.70
INV 7.35
4 C5.01

6" PERF SD-159'
S=0.010

6" PERF SD-159'
S=0.006

SDCO
RIM 9.25
INV 8.25
4 C5.01

INV 4.60

6" PERF SD-250'
S=0.003

SDCO
RIM 7.50
INV 5.20
4 C5.01

GI
TG 7.35
INV 5.20
2 C5.01

6" PERF SD-232'
S=0.005 MIN

MATCHLINE
SEE SHEET C4.03A

MATCHLINE
SEE SHEET C4.02A

MATCHLINE
SEE SHEET C4.02A

INV 5.45

Plot May 13, 2024 at 11:46am

191470-15_SITE.dwg

NO.	REVISION	BY	DATE

DESIGNED NR
DRAWN CG
CHECKED AD
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
UTILITY PLAN - PHASE 1

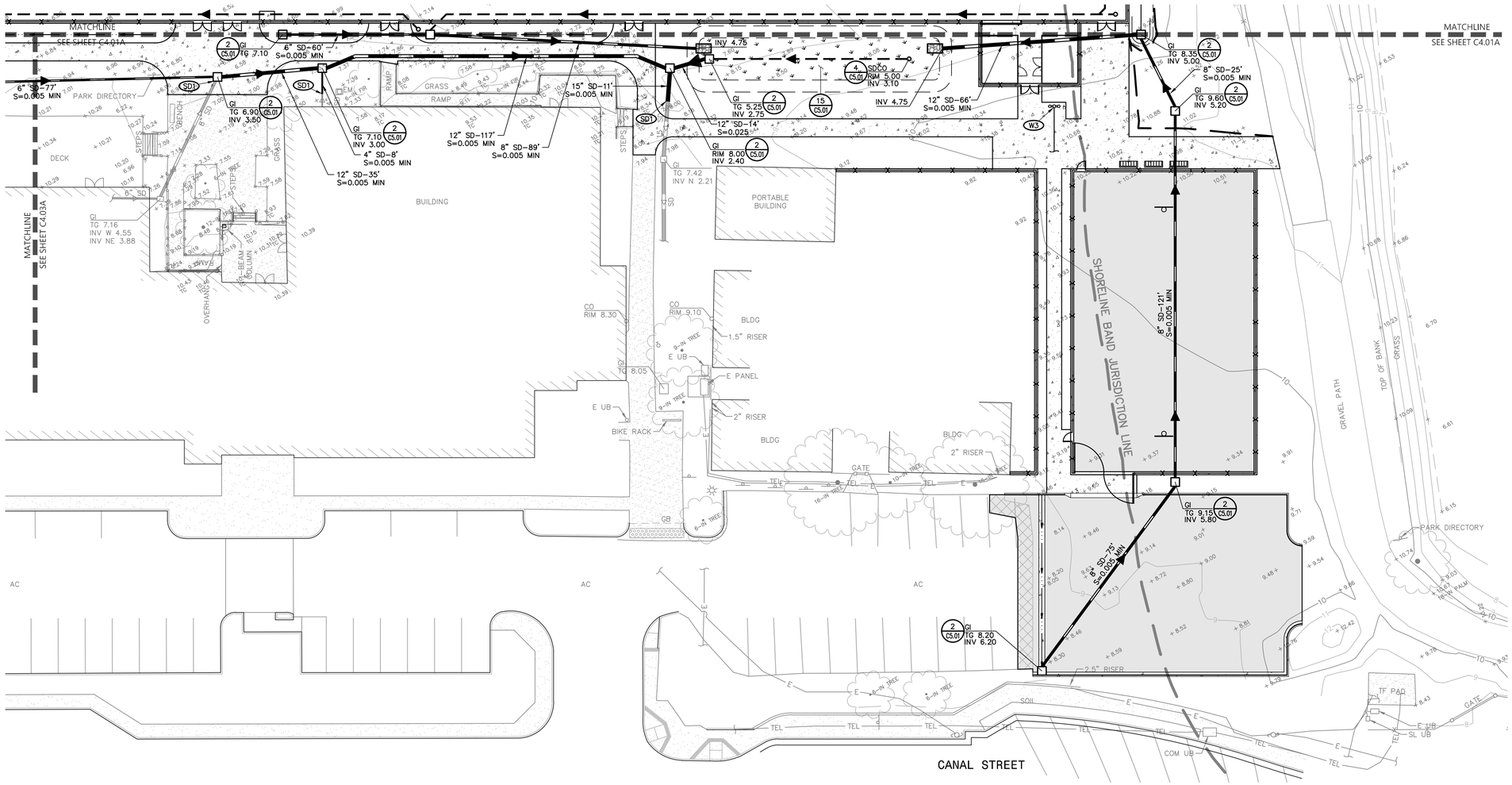
SAN RAFAEL COUNTY OF MARIN CALIFORNIA

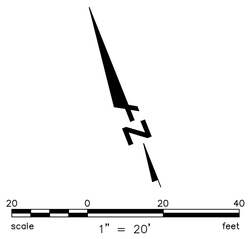
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DEPARTMENT OF PUBLIC WORKS

SCALE: AS SHOWN
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: C4.01A
DRAWING: 17 OF 25



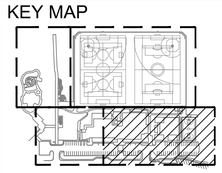


KEYNOTES:

(SD1) CONNECT TO EXISTING UTILITY IN A MANNER THAT PROVIDES A PERMANENT WATER TIGHT SEAL.

(W1) COORDINATE THE SIZE AND LOCATION OF THIS UTILITY WITH THE BUILDING MANUFACTURER PRIOR TO INSTALLATION AND CONNECT THE SITE UTILITY TO THE BUILDING PLUMBING SYSTEM.

KEY MAP



NO.	REVISION	BY	DATE

DESIGNED NR
DRAWN CG
CHECKED AD
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
UTILITY PLAN - PHASE 1

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

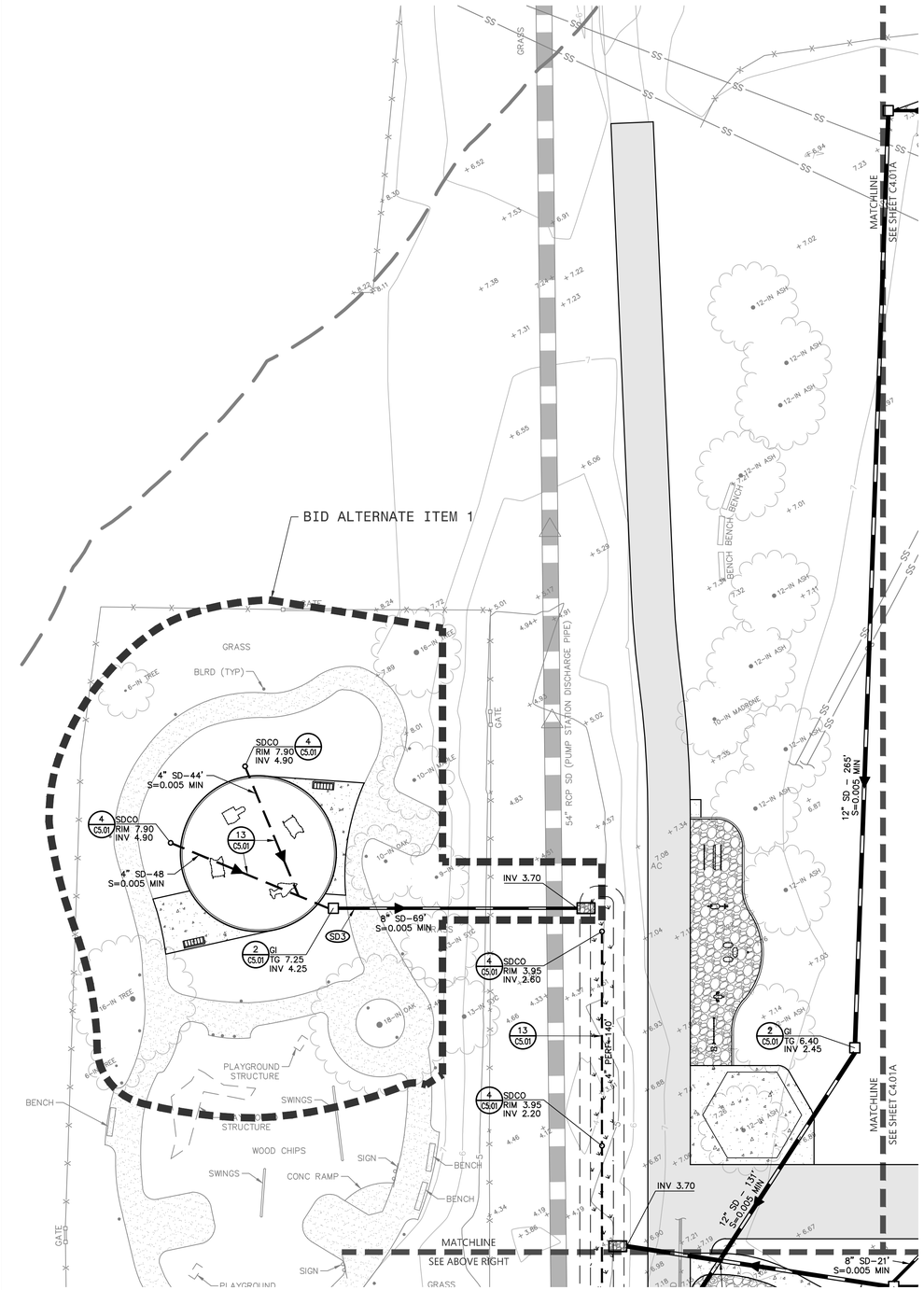
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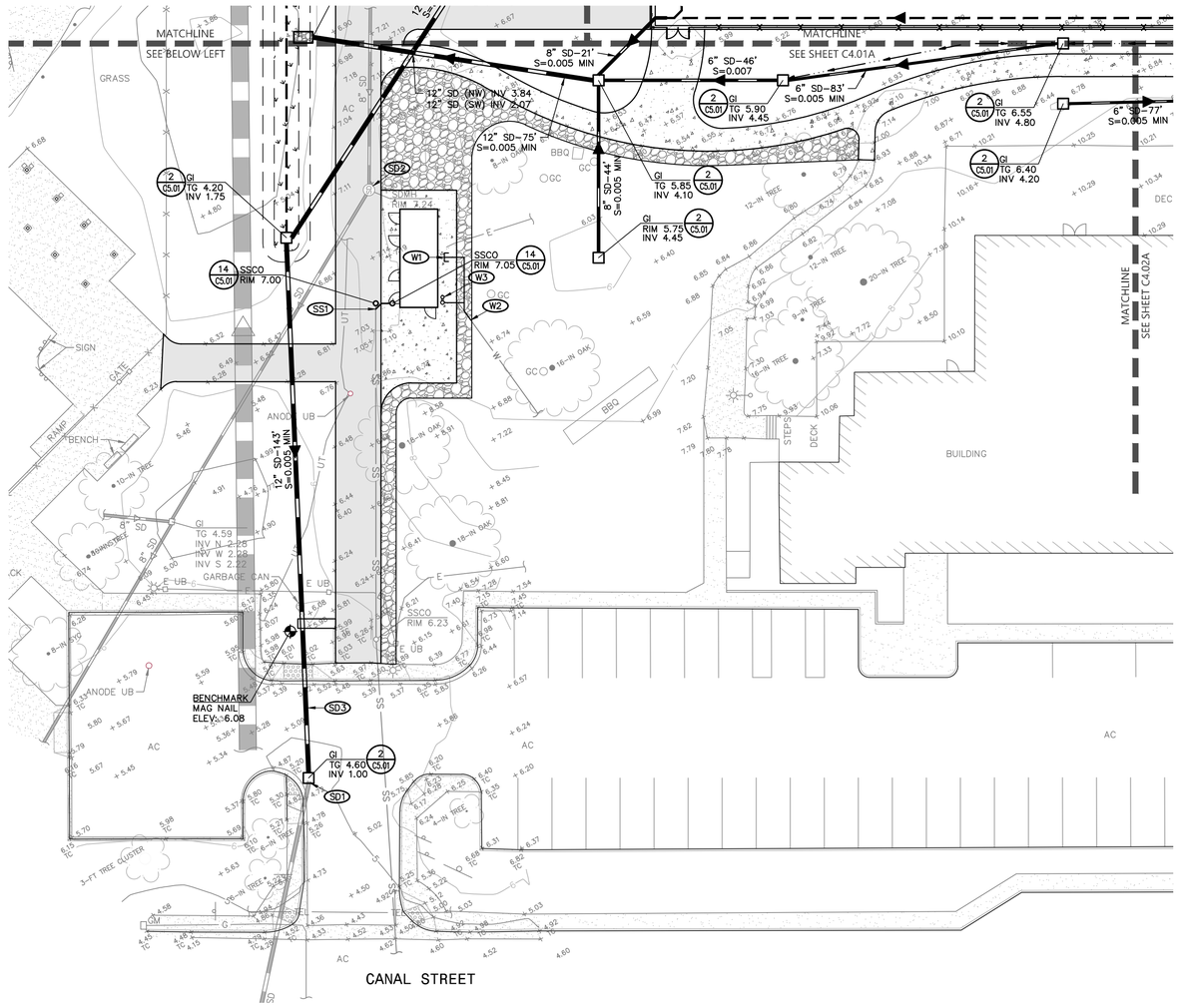
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STATE OF CALIFORNIA

100% CDS
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DEPARTMENT OF PUBLIC WORKS

SCALE: AS SHOWN
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: C4.02A
DRAWING: 18 OF 25

Plot: May 13, 2024 at 10:45am
191470-15_SITE.dwg





KEYNOTES:

(SD1) CONNECT TO EXISTING UTILITY IN A MANNER THAT PROVIDES A PERMANENT WATER TIGHT SEAL.

(SD2) RAISE EXISTING MANHOLE TO FINISHED GRADE AS REQUIRED TO FACILITATTE THE PROPOSED IMPROVEMENTS.

(SD3) ANY EXISTING SURFACE FEATURES (CURB, GUTTER, SIDEWALK, DETECTABLE WARNINGS & AC) DISTURBED BY THE INSTALLATION OF THE PROPOSED STORM DRAIN SHALL BE REPLACED IN KIND, AFTER THE INSTALLATION OF THE PROPOSED STORM DRAIN IS COMPLETED.

(W1) COORDINATE THE SIZE AND LOCATION OF THIS UTILITY WITH THE BUILDING MANUFACTURER PRIOR TO INSTALLATION AND CONNECT THE SITE UTILITY TO THE BUILDING PLUMBING SYSTEM.

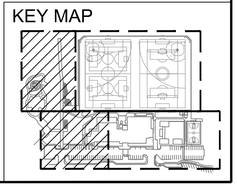
(W2) POTHOLE TO CONFIRM THE LOCATION AND ELEVATION OF THE EXISTING WATER LINE PRIOR TO CONNECTING THE NEW WATER LINES. CONNECT TO EXISTING WATERLINES IN A MANNER THAT CREATES A WATER TIGHT SEAL.

(W3) DRINKING FOUNTAIN. SEE LANDSCAPE DRAWINGS FOR ADDITIONAL INFORMATION.

(SS1) POTHOLE TO CONFIRM THE LOCATION AND ELEVATION OF EXISTING SEWER SERVICE LATERAL PRIOR TO MAKING THE NEW CONNECTION.

20 0 20 40
scale 1" = 20' feet

KEY MAP



NO.	REVISION	BY	DATE

DESIGNED NR
DRAWN CG
CHECKED AD
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
UTILITY PLAN - PHASE 1

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

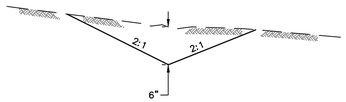
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(415) 930-7960
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REGISTERED PROFESSIONAL ENGINEER
ANDREW J. DaZURIK
No. C-85129
CIVIL
STATE OF CALIFORNIA

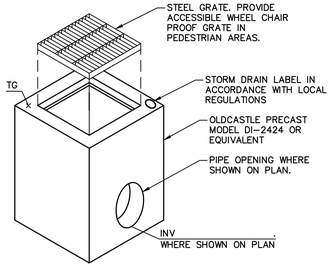
100% CDS
CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE: AS SHOWN
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: C4.03A
DRAWING: 19 OF 25

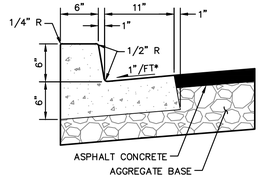
Plot May 13, 2024 at 12:15pm
191470-15_SITE.dwg



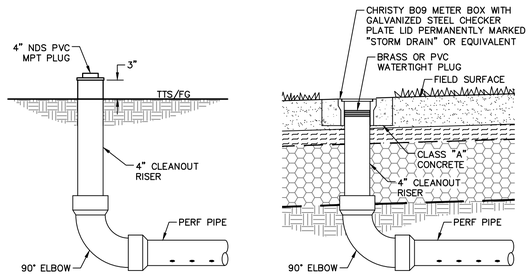
1 — SWALE DETAIL
NO SCALE



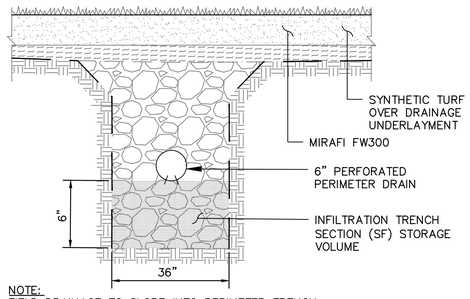
2 — GRATE INLET DETAIL
NO SCALE



3 — CURB DETAIL
NO SCALE

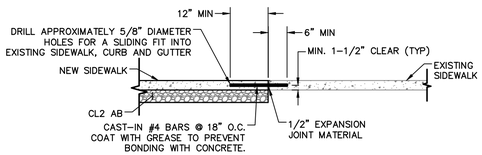


4 — STORM DRAIN CLEANOUT
NO SCALE

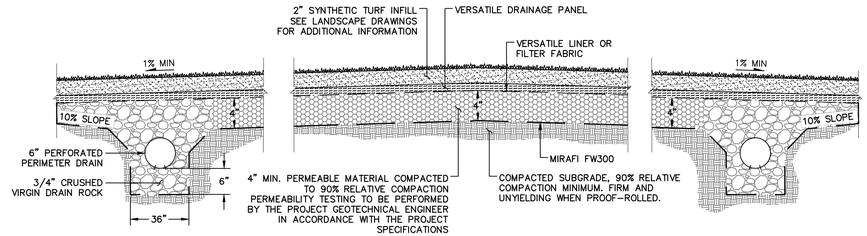


NOTE:
FIELD DRAINAGE TO SLOPE INTO PERIMETER TRENCH.

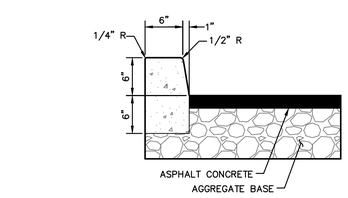
5 — PERIMETER TRENCH DETAIL
NO SCALE



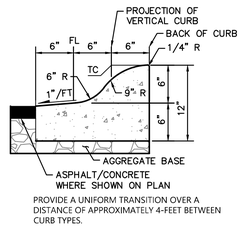
6 — SIDEWALK EXPANSION JOINT
NO SCALE



7 — TYPICAL ALL-WEATHER TURF SECTION
NOT TO SCALE

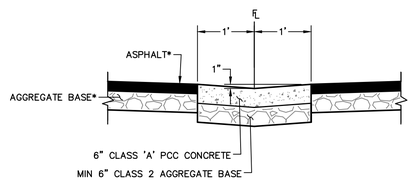


8 — CURB DETAIL
NO SCALE

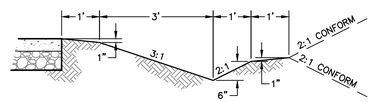


PROVIDE A UNIFORM TRANSITION OVER A DISTANCE OF APPROXIMATELY 4-FEET BETWEEN CURB TYPES.

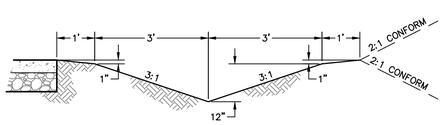
9 — ROLLED CURB DETAIL
NO SCALE



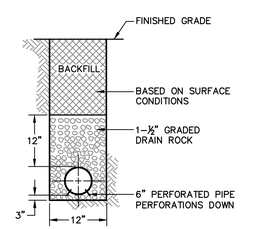
10 — VALLEY GUTTER DETAIL
NO SCALE



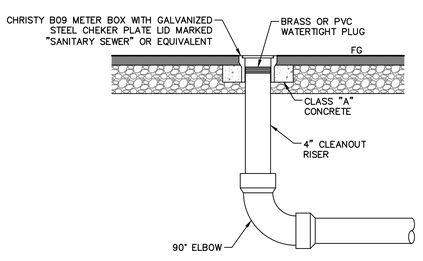
11 — TEMPORARY SWALE DETAIL
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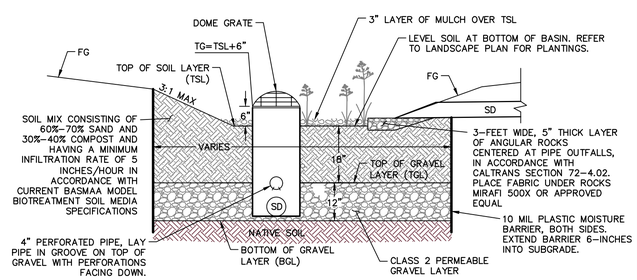
12 — SWALE DETAIL
NO SCALE



13 — SUBDRAIN DETAIL
NO SCALE



14 — SEWER CLEANOUT DETAIL
NO SCALE



15 — BIORETENTION FACILITY
NO SCALE

NO.	REVISION	BY	DATE

DESIGNED NR
DRAWN CG
CHECKED AD
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
CIVIL CONSTRUCTION DETAILS

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

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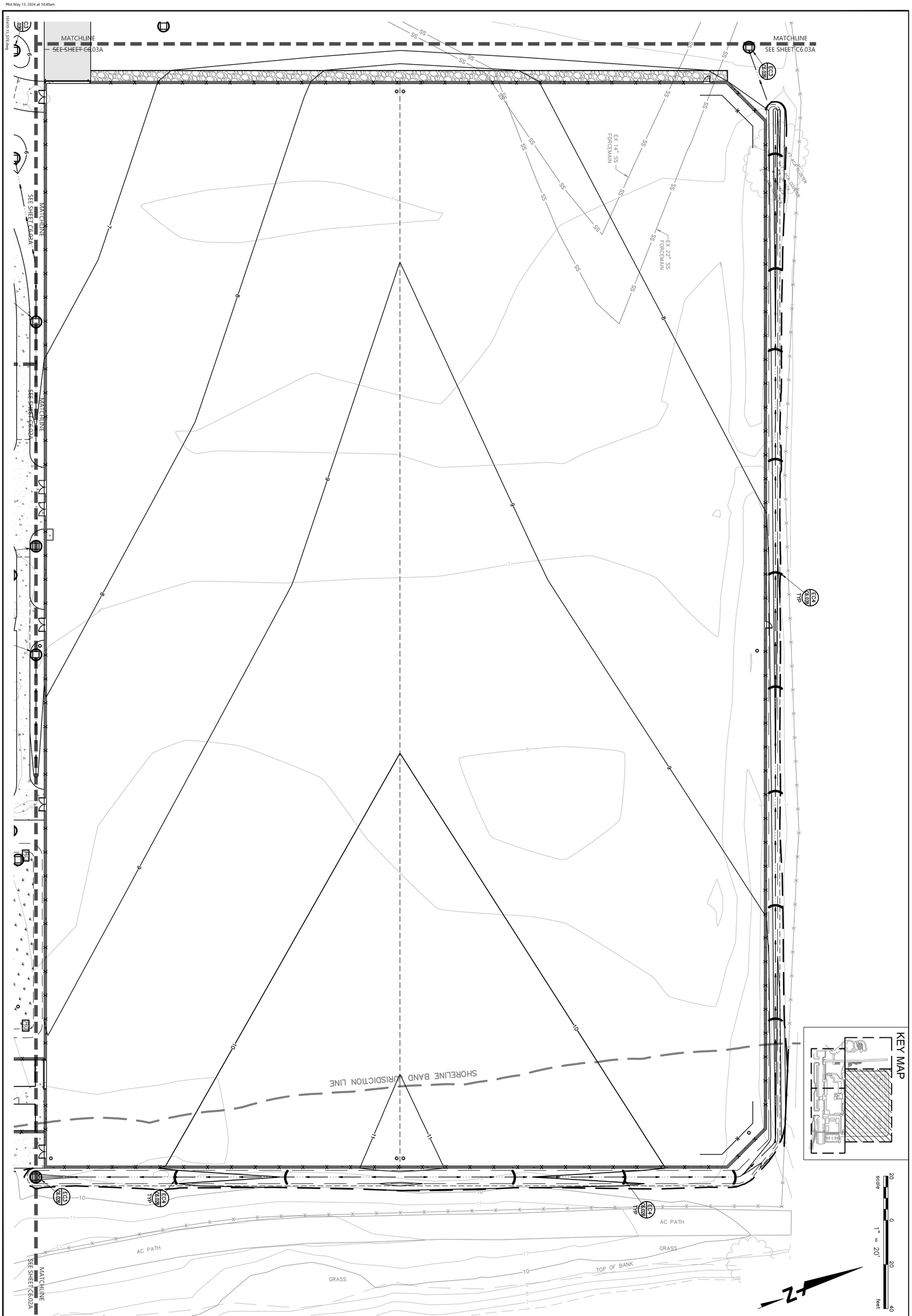
REGISTERED PROFESSIONAL ENGINEER
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CIVIL
STATE OF CALIFORNIA

100% CDS
CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE: AS SHOWN
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: C5.01
DRAWING: 20 OF 25

Plot May 13, 2024 at 12:36pm
191470-15_SITE.dwg

Plot May 13, 2024 at 10:49am



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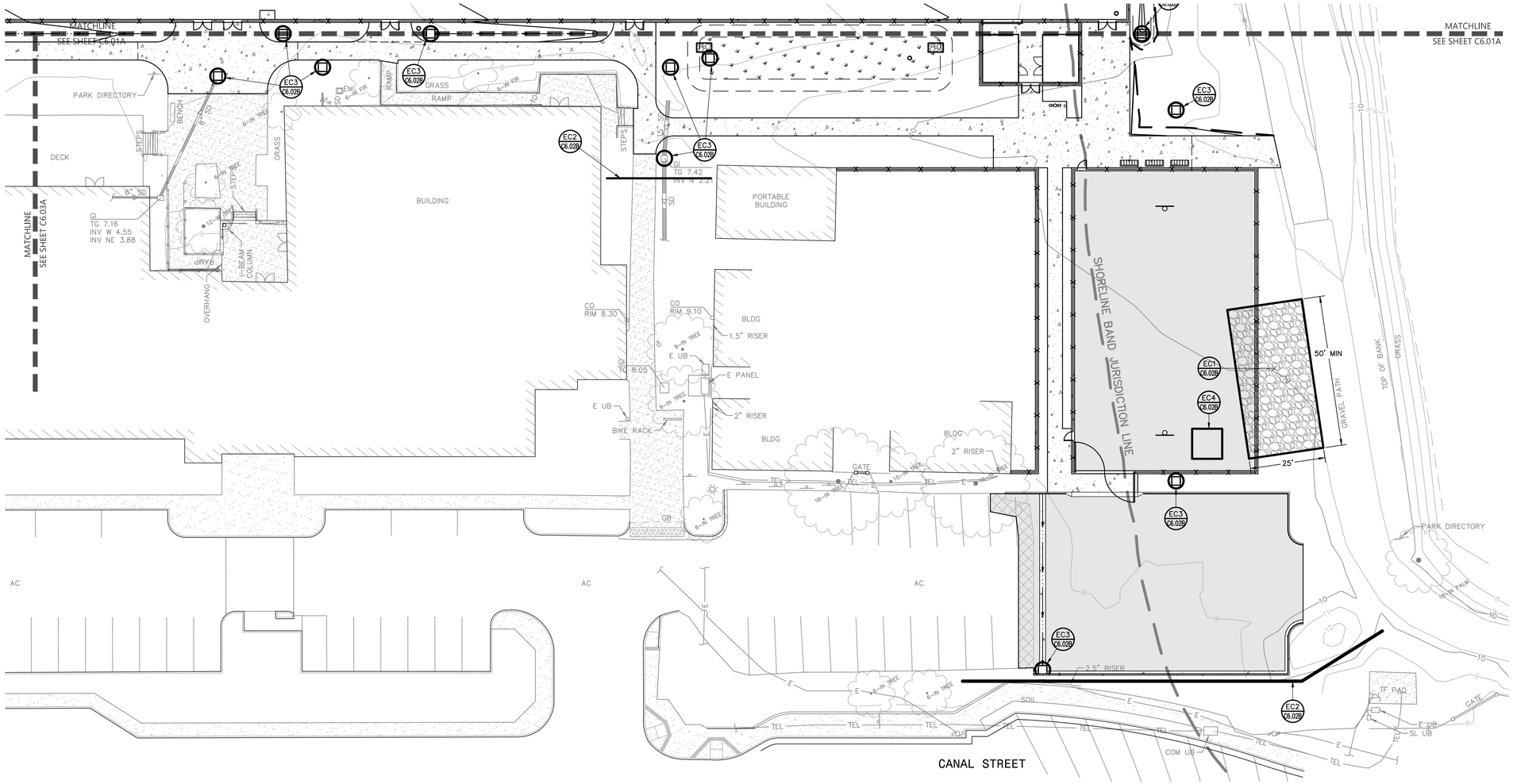
PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

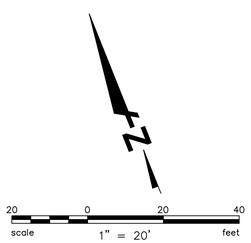
DRAWING NAME
EROSION & SEDIMENT CONTROL PLAN - PHASE 1 (FIELD)
SAN RAFAEL COUNTY OF MARIN CALIFORNIA

DESIGNED	NR
DRAWN	CG
CHECKED	AD
APPROVED	
DATE	

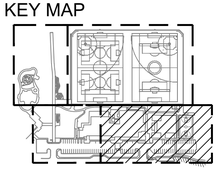
NO.	REVISION	BY	DATE
			DATE

SCALE: AS SHOWN
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: C6.01A
DRAWING: 21 OF 25





KEY MAP



NO.	REVISION	BY	DATE

DESIGNED NR
DRAWN CG
CHECKED AD
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS
SAN RAFAEL COUNTY OF MARIN CALIFORNIA

DRAWING NAME
EROSION & SEDIMENT CONTROL PLAN - PHASE 1

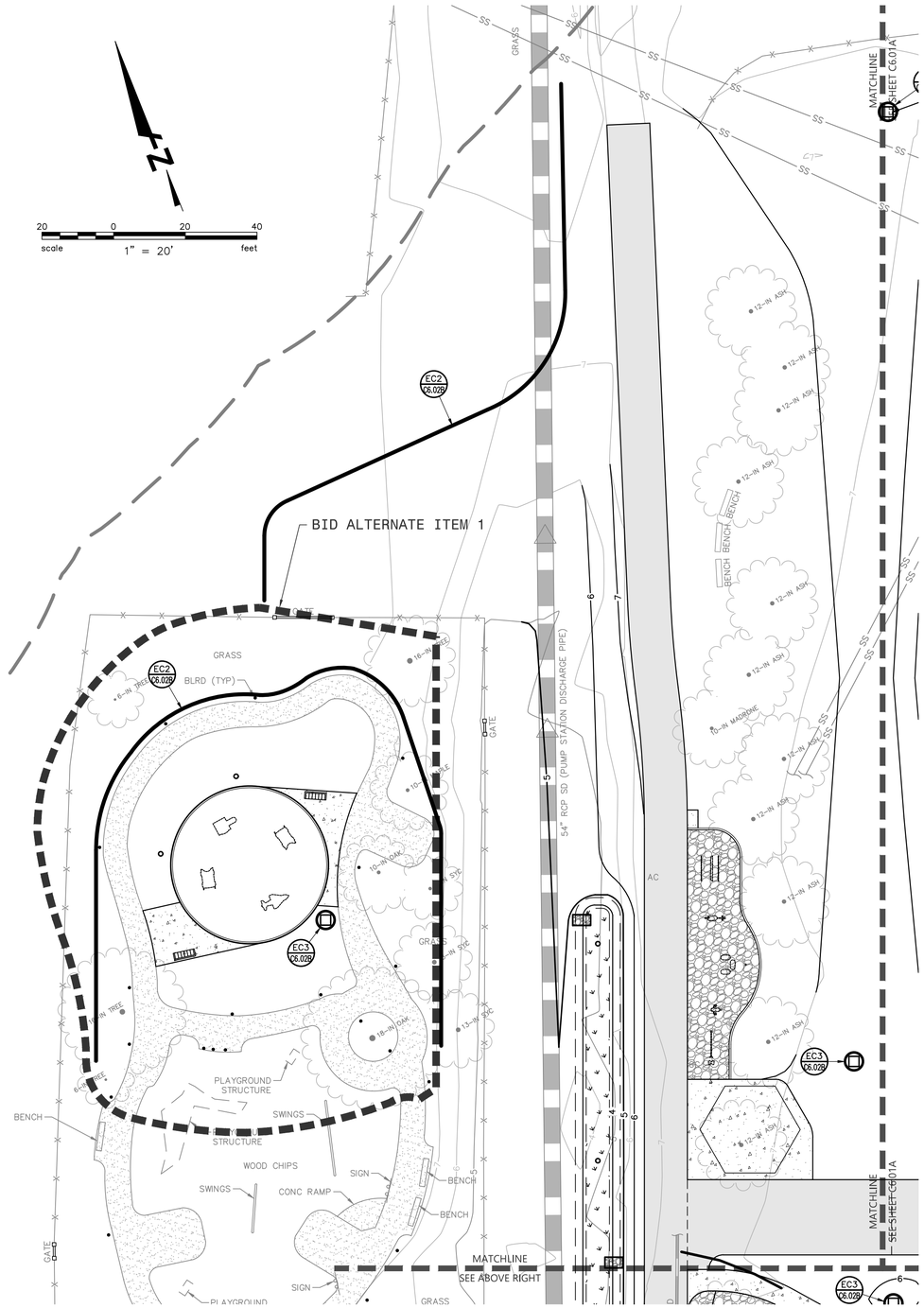
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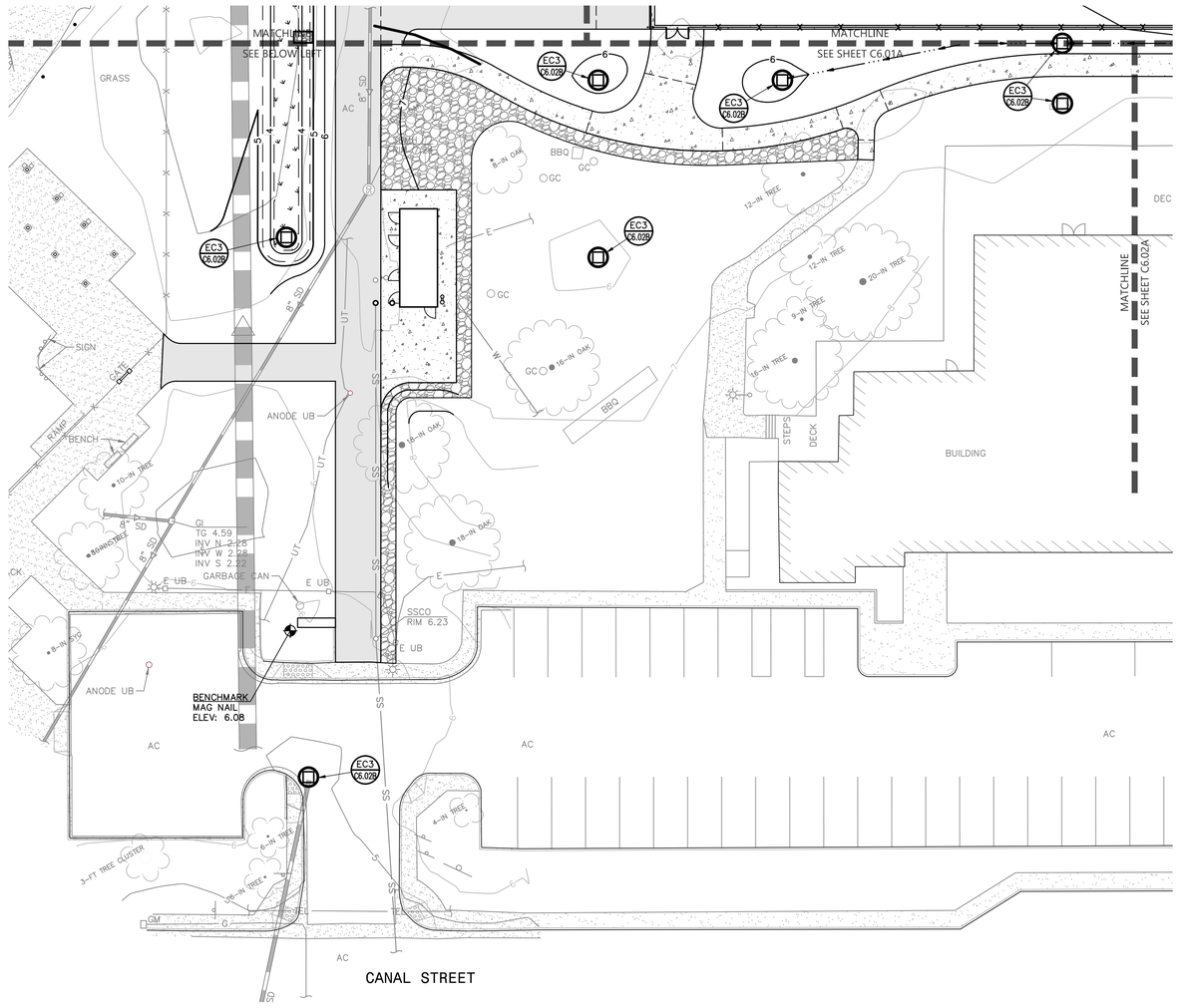
REGISTERED PROFESSIONAL ENGINEER
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No. C-85129
CIVIL
STATE OF CALIFORNIA

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DEPARTMENT OF PUBLIC WORKS

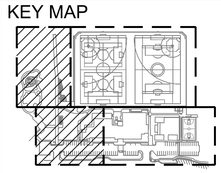
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DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: C6.02A
DRAWING: 22 OF 25

Plot May 13, 2024 at 10:50am
191470-15_SITE.dwg





KEY MAP



DESIGNED	NR
DRAWN	CG
CHECKED	AD
APPROVED	

NO.	REVISION	BY	DATE

DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
EROSION & SEDIMENT CONTROL PLAN - PHASE 1

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

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STATE OF CALIFORNIA

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DEPARTMENT OF PUBLIC WORKS

SCALE: AS SHOWN
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: C6.03A
DRAWING: 23 OF 25

Plot: May 13, 2024 at 12:01pm
191470-15_SITE.dwg

Plot May 13, 2024 at 10:51am



100% CDS

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DEPARTMENT OF PUBLIC WORKS

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CIVIL

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San Rafael, CA 94901
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www.bkf.com

PROJECT NAME

PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME

EROSION & SEDIMENT CONTROL PLAN - PHASE 2 (FIELD)

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

DESIGNED	NR
DRAWN	CG
CHECKED	AD
APPROVED	
DATE	

NO.	REVISION	BY	DATE
			DATE

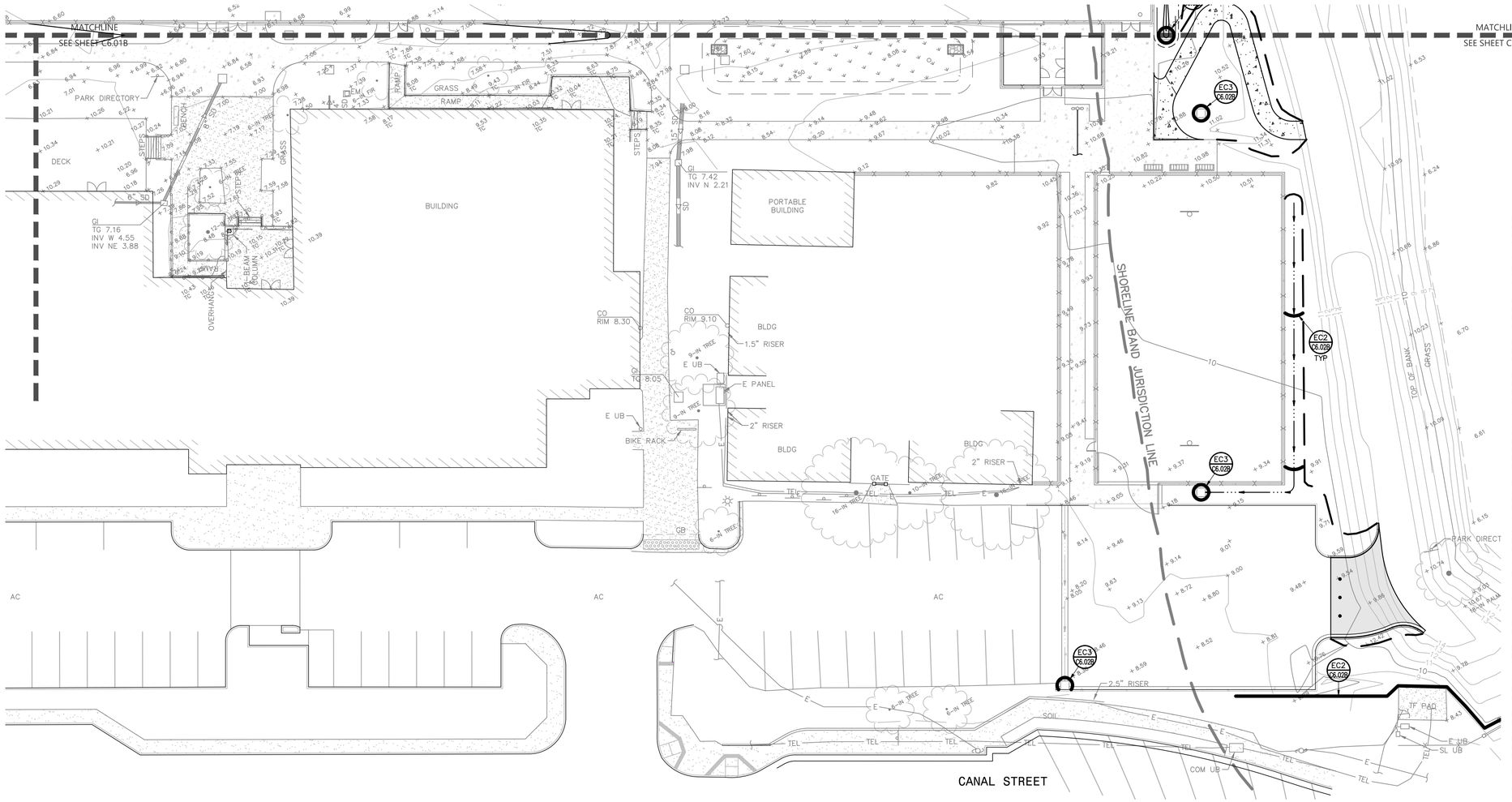
SCALE: AS SHOWN

DATE: 05/15/24

CITY PROJECT NO.: 11376

SHEET NO.: C6.01B

DRAWING: 24 OF 25



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 FILTERS AT STORM WATER INLETS REFLECTS A CONDITION AFTER THE STORM DRAIN SYSTEM HAS BEEN INSTALLED.

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.

USE RECYCLED WATER FOR ALL EROSION & SEDIMENT CONTROL ACTIVITIES, INCLUDING DUST CONTROL, AND OTHER CONSTRUCTION ACTIVITIES TO THE MAXIMUM EXTENT PRACTICABLE. RECYCLED WATER MAY BE AVAILABLE FROM A FILLING STATION FREE OF CHARGE AT THE MARIN COUNTY CIVIC CENTER.

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, QSD, QSP, THE COUNTY OF MARIN, AND MCSTOPPPP. EROSION AND SEDIMENT CONTROL MEASURES AND THEIR INSTALLATION SHALL BE ACCOMPLISHED USING BEST MANAGEMENT PRACTICES IN ACCORDANCE WITH THE MARIN COUNTY STORMWATER POLLUTION PREVENTION PROGRAM MINIMUM CONTROL MEASURES FOR SMALL CONSTRUCTION PROJECTS.

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, QSD, QSP, THE COUNTY OF MARIN, AND MCSTOPPPP. 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 COUNTY OF MARIN, AND MCSTOPPPP.

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. 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.

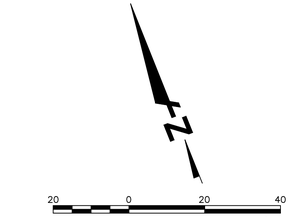
EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REPAIRED OR REPLACED WHEN THEY ARE NO LONGER FUNCTIONING IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES.

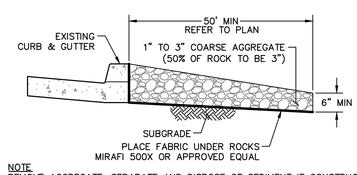
AFTER CONSTRUCTION IS COMPLETE, STORM DRAIN SYSTEMS ASSOCIATED WITH THIS PROJECT SHALL BE INSPECTED AND CLEARED OF ACCUMULATED SEDIMENTS AND DEBRIS.

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.

STABILIZATION OF EXPOSED GRADED AREAS WITH STRAW MULCH SHALL BE APPLIED AT A RATE OF 2 TONS PER ACRE.

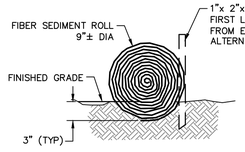
THE CONTRACTOR SHALL EMPLOY BEST MANAGEMENT PRACTICES TO PREVENT PARTICULATE MATTER OR MATERIALS FROM PAVING AND GRINDING OPERATIONS FROM ENTERING THE STORM DRAIN SYSTEM, PER "NS-3 PAVING AND GRINDING OPERATIONS", STATE OF CALIFORNIA DOT (CALTRANS) CONSTRUCTION SITE BEST MANAGEMENT PRACTICE (BMP) FIELD MANUAL AND TROUBLESHOOTING GUIDE, JANUARY 2003.



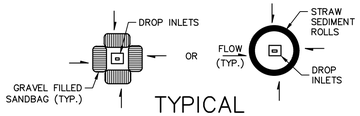


NOTE
REMOVE AGGREGATE, SEPARATE AND DISPOSE OF SEDIMENT IF CONSTRUCTION ENTRANCE/EXIT IS CLOGGED WITH SEDIMENT.

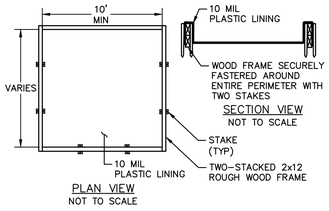
EC1 — CRUSHED ROCK ENTRANCE
NO SCALE



EC2 — FIBER ROLL DETAIL
NO SCALE



TYPICAL
EC3 — SEDIMENT DEVICES
NO SCALE

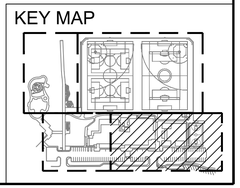


NOTES:

1. LOCATION IN PLAN SHOWN FOR GRAPHIC PURPOSE ONLY. LOCATION TO BE APPROVED BY INSPECTOR.
2. CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. CONSTRUCT A BERMED AREA LARGE ENOUGH FOR LIQUID AND WASTE CONCRETE MATERIALS GENERATED DURING WASHOUT PROCEDURES. WASHOUT WASTES INTO THE TEMPORARY WASHOUT WHERE THE CONCRETE CAN SET, BE BROKEN UP, AND THEN DISPOSED PROPERLY. WASHOUT SHOULD BE LINED WITH A 10 MIL PLASTIC SO THERE IS NO DISCHARGE INTO THE UNDERLYING SOIL. REFER TO PROJECT SWPPP FOR BMP INSPECTION AND MAINTENANCE.

EC4 — CONCRETE WASHOUT DETAIL
NO SCALE

KEY MAP



NO.	REVISION	BY	DATE

DESIGNED NR
DRAWN CG
CHECKED AD
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
EROSION & SEDIMENT CONTROL PLAN - PHASE 2
SAN RAFAEL COUNTY OF MARIN CALIFORNIA

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REGISTERED PROFESSIONAL ENGINEER
ANDREW J. DeZURIK
No. C-85129
CIVIL
STATE OF CALIFORNIA

100% CDS
CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE: AS SHOWN
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: C6.02B
DRAWING: 25 OF 25

Plot May 13, 2024 at 10:54am
191470-15_SITE.dwg

TREE PROTECTION NOTES

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 JO.

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 FENCING.

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.

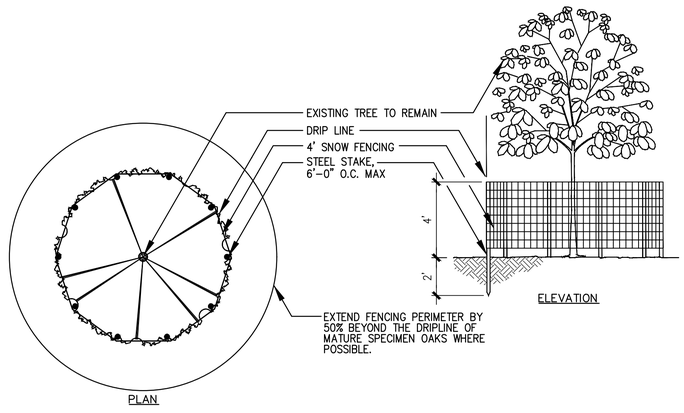
10. ROOTS OF SINGLE STANDING TREES OFTEN EXTEND UP TO THREE TIMES THE DISTANCE OF THE ACTUAL DRIP LINE AND FUNCTION PRIMARILY IN THEY UPTAKE OF NUTRIENTS AND WATER. THE DRIP LINE IS ARBITRARILY ESTABLISHED AS THE MINIMUM ROOT AREA GENERALLY REQUIRED TO PRESERVE TREE HEALTH. AS MUCH AREA AROUND THE CIRCUMFERENCE 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 BE REVIEWED BY AN ARBORIST.

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.



1 EXISTING TREE PROTECTIVE FENCING

SCALE: 1/4" = 1'–0"

TREE INVENTORIES

TREES TO REMAIN

TREE #	COMMON NAME	TRUNK DIAMETER	COMMENT
2	ASH	12"	On–site
3	ASH	12"	On–site
4	ASH	12"	On–site
5	ASH	12"	On–site
6	ASH	12"	On–site
7	ASH	12"	On–site
8	MADRONE	12"	On–site
9	ASH	12"	On–site
10	ASH	12"	On–site
11	ASH	12"	On–site
12	ASH	12"	On–site
15	SYCAMORE	13"	Add Alternate
16	OAK	18"	Add Alternate
17	SYCAMORE	13"	Add Alternate
18	SYCAMORE	9"	Add Alternate
19	OAK	10"	Add Alternate
20	MAPLE	10"	Add Alternate
21	UNKNOWN	16"	Add Alternate
22	UNKNOWN	6"	Add Alternate
23	UNKNOWN	16"	Add Alternate
24	UNKNOWN	6"	Add Alternate
25	UNKNOWN	10"	On–site
26	SYCAMORE	8"	On–site
31	OAK	18"	On–site
32	OAK	18"	On–site
33	OAK	16"	On–site
34	OAK	8"	On–site
35	OAK	10"	On–site
36	UNKNOWN	12"	On–site
37	UNKNOWN	12"	On–site
38	UNKNOWN	20"	On–site
39	UNKNOWN	9"	On–site
40	UNKNOWN	16"	On–site
41	UNKNOWN	12"	On–site
42	UNKNOWN	6"	On–site
43	UNKNOWN	6"	On–site
44	FIR	6"	On–site
45	FIR	6"	On–site
46	UNKNOWN	9"	On–site
47	UNKNOWN	9"	On–site
48	UNKNOWN	6"	On–site
49	UNKNOWN	16"	On–site
50	UNKNOWN	10"	On–site
51	UNKNOWN	16"	On–site

TREES TO BE REMOVED

TREE #	COMMON NAME	TRUNK DIAMETER	COMMENT
1	UNKNOWN TREE CLUSTER	6–24"	On–site
13	ASH	12"	On–site
14	ASH	12"	On–site
27	UNKNOWN	N/A	On–site
28	UNKNOWN	N/A	On–site
29	UNKNOWN	N/A	On–site
30	UNKNOWN	N/A	On–site

TREE DISPOSITION LEGEND

PROTECTION FENCE

EXISTING TREE TO REMAIN

EXISTING TREE TO BE REMOVED

NO.	REVISION	BY	DATE

DESIGNED MR / SW
DRAWN SW / MM
CHECKED MR
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS
SAN RAFAEL COUNTY OF MARIN CALIFORNIA

DRAWING NAME
TREE DISPOSITION NOTES AND INVENTORIES

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING - URBAN DESIGN

NOT FOR CONSTRUCTION

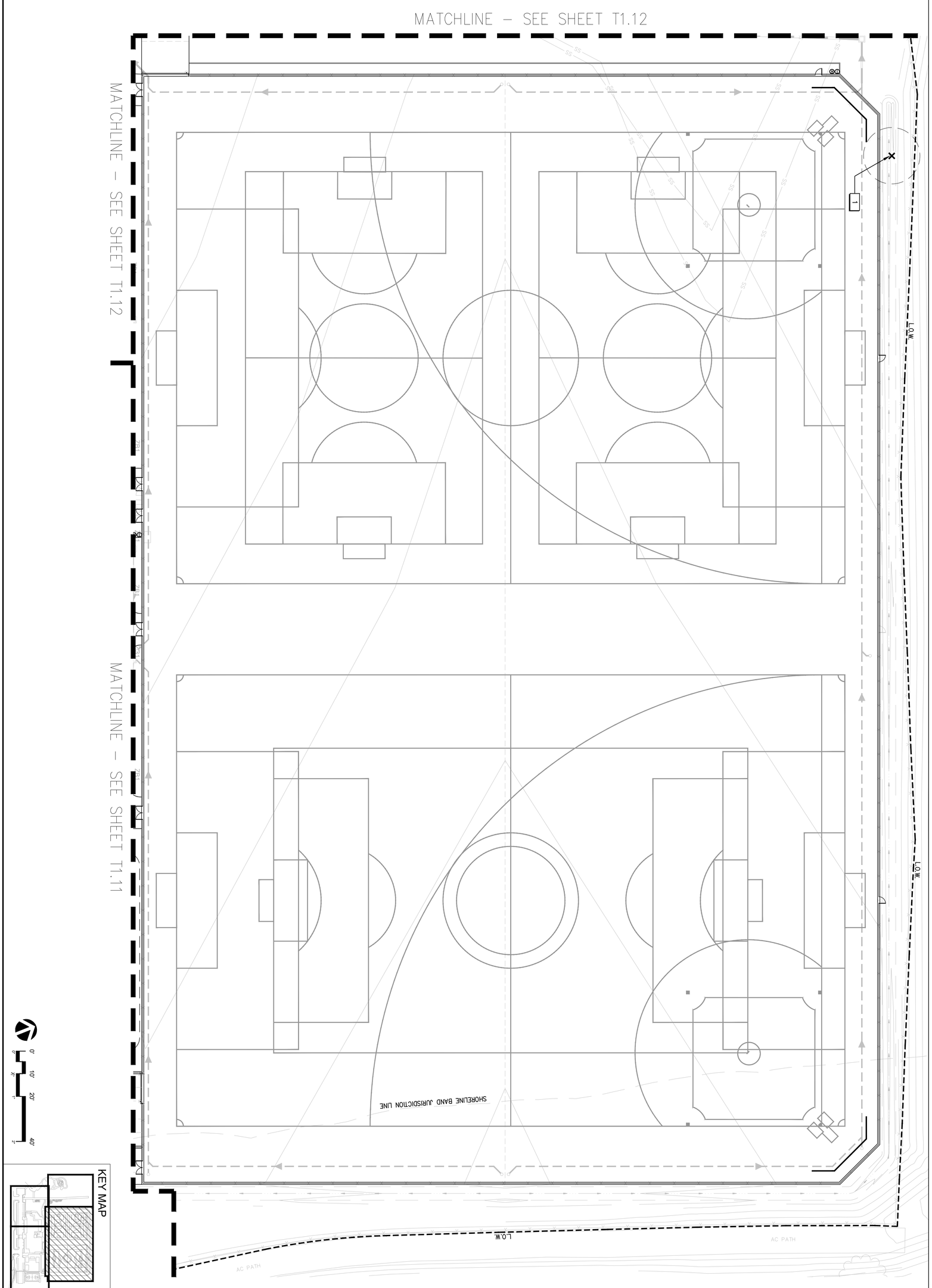
REGISTERED LANDSCAPE ARCHITECT
CHRIS GATES
No. 5542
Revision
6/30/2024
12/21/2023
LA
STATE OF CALIFORNIA

100% CDS
CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE:
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: T0.10

May 13, 2024 – 4:40pm – USER illition
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May 13, 2024 – 4:40pm – USER lillian
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100% CDS

CITY OF SAN RAFAEL

DEPARTMENT OF PUBLIC WORKS

NOT FOR CONSTRUCTION

GATES +ASSOCIATES

PROJECT NAME

PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME

TREE DISPOSITION PLAN (FIELD)

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

DESIGNED	MR / SW
DRAWN	SW / MM
CHECKED	MR
APPROVED	
DATE	

NO.	REVISION	BY	DATE
			DATE

SHEET NO.: T1.10

CITY PROJECT NO.: 11376

DATE: 05/15/24

SCALE: 1"=20'-0"

MATCHLINE – SEE SHEET T1.10

MATCHLINE – SEE SHEET T1.12

L.O.W.

BCDC BAY JURISDICTION (MSL + 5 FEET)

GRAVEL PATH

SCHOOL

COMMUNITY CENTER

SCHOOL

SCHOOL

LCP

LCP

ZB1

ZP3

(D)

L.O.W.

L.O.W.

SHORELINE BAND JURISDICTION LINE

CANAL STREET

CANAL STREET

KEY MAP

0' 10' 20' 40'

0" ½" 1" 2"

NO.	REVISION	BY	DATE

DESIGNED MR / SW
DRAWN SW / MM
CHECKED MR
APPROVED

DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
TREE DISPOSITION PLAN

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING - URBAN DESIGN

NOT FOR CONSTRUCTION

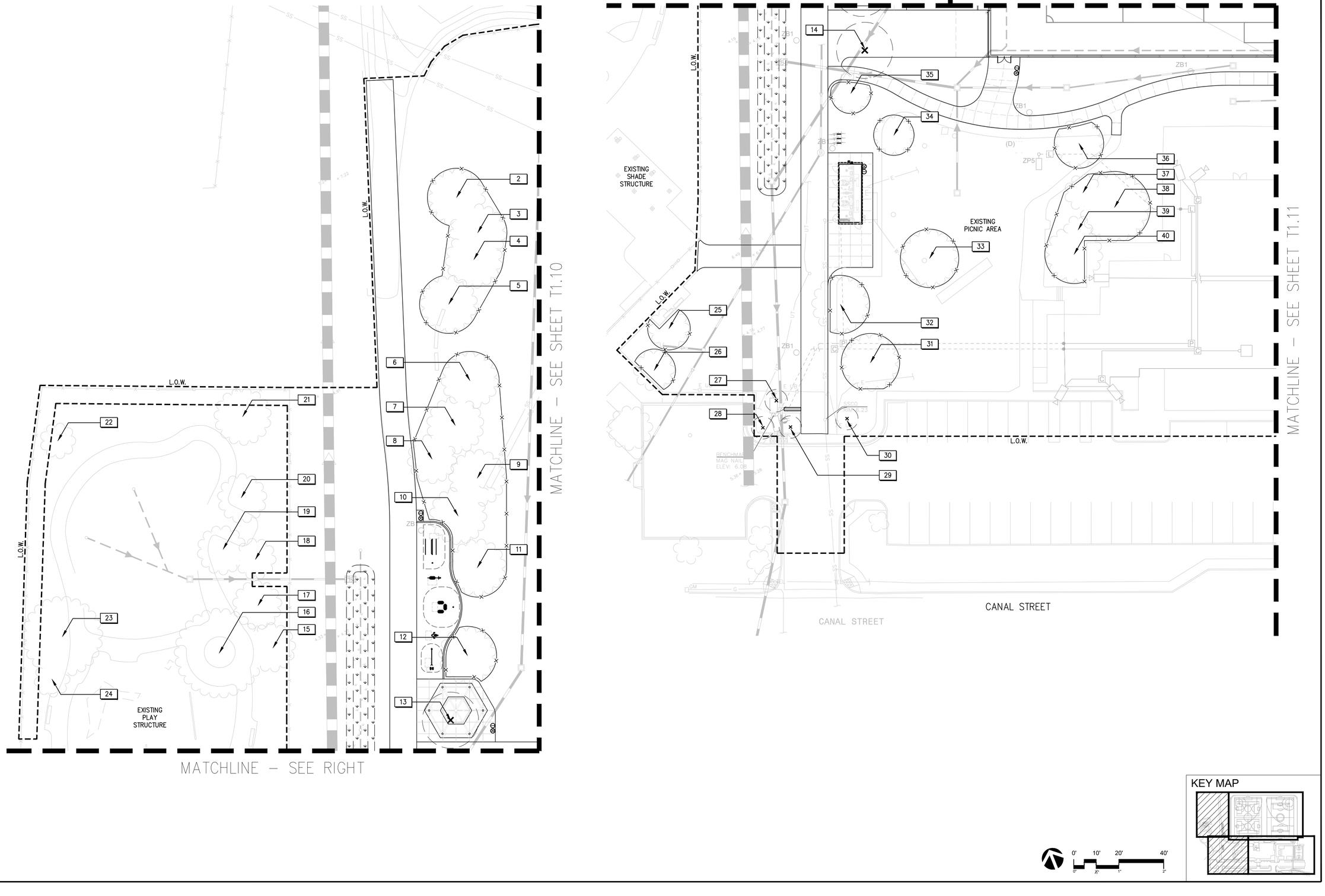
REGISTERED LANDSCAPE ARCHITECT CASEY GATES No. 6000 STATE OF CALIFORNIA
Signature 6/20/2024
Date 12/21/2023
L.A.

100% CDS

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE: 1"=20'-0"
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: T1.11

May 13, 2024 - 4:40pm - USER Illian
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KEY MAP

0' 10' 20' 40'

0" ½" 1" 2"

May 13, 2024 – 4:40pm – USER Illition
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NO.	REVISION	BY	DATE

DESIGNED MR / SW
DRAWN SW / MM
CHECKED MR
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
TREE DISPOSITION PLAN

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

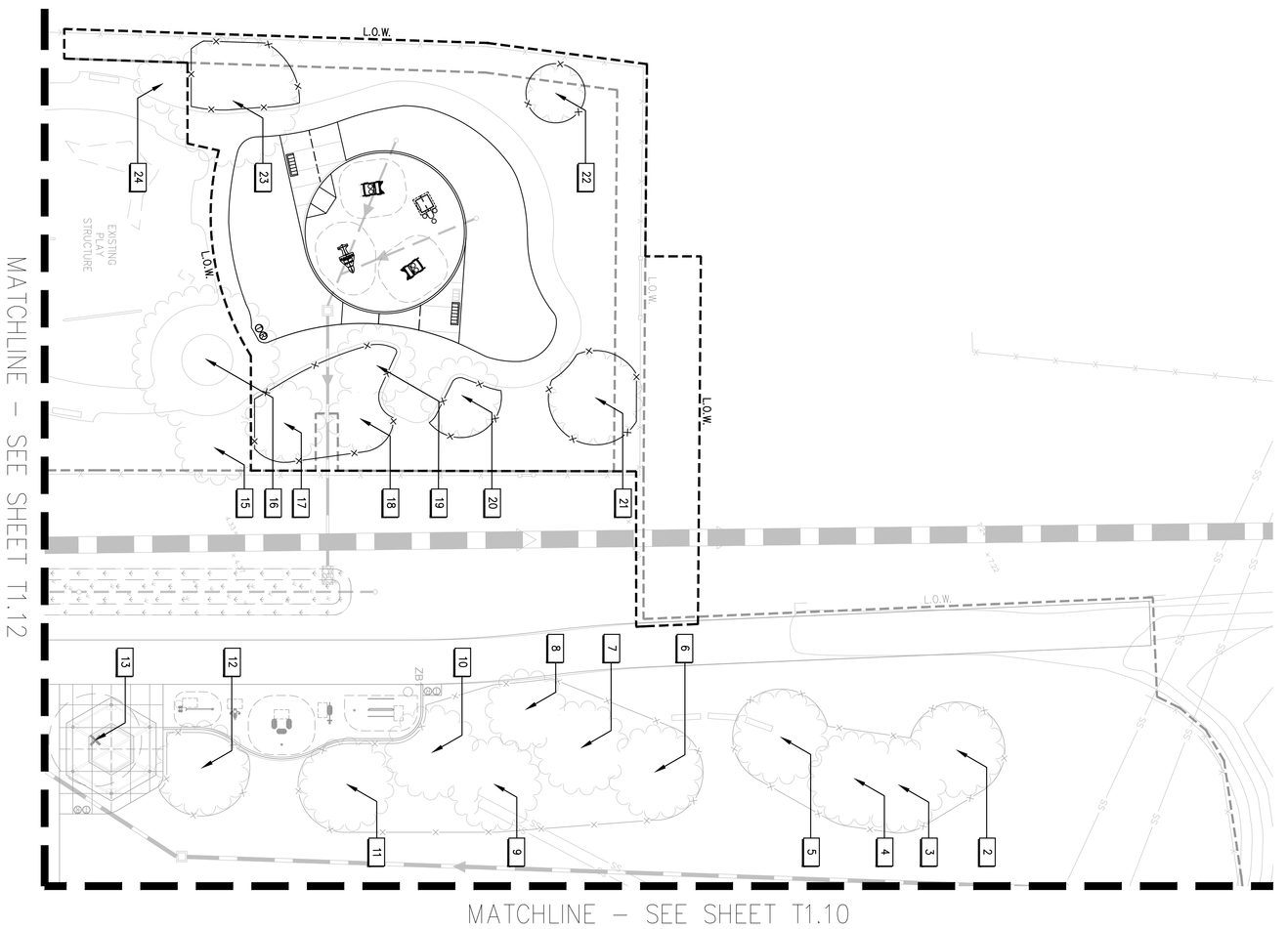
GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING · URBAN DESIGN
www.gatesla.com 415.332.4343

NOT FOR CONSTRUCTION

REGISTERED LANDSCAPE ARCHITECT · CASEY CASE · No. 6065 · STATE OF CALIFORNIA
Signed 6/30/2024
Renewal Date 12/31/2025
LA

100% CDS
CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE: 1"=20'-0"
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: T1.12



0' 10' 20' 40'

KEY MAP

100% CDS

CITY OF SAN RAFAEL

DEPARTMENT OF PUBLIC WORKS

NOT FOR CONSTRUCTION

GATES +ASSOCIATES

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
TREE DISPOSITION PLAN - ADD ALT

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

DESIGNED	MR / SW
DRAWN	SW / MM
CHECKED	MR
APPROVED	
DATE	

NO.	REVISION	BY	DATE
			DATE

SHEET NO.: T1.13

CITY PROJECT NO.: 11376

DATE: 05/15/24

SCALE: 1"=20'-0"

ABBREVIATIONS

@	AT
AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
AD	AREA DRAIN
ADA	AMERICANS WITH DISABILITIES ACT
ADD ALT	ADD ALTERNATE
AFF	ABOVE FINISHED GRADE
ADJ	ADJACENT
APPROX	APPROXIMATELY
ARCH	ARCHITECTURE
ASB	AGGREGATE SUBBASE
BC	BACK OF CURB
BEG	BEGIN
BFP	BACK FLOW PREVENTOR
BLDG	BUILDING
BLVD	BOULEVARD
BM	BENCH MARK
BOC	BACK OF CURB
BOD	BOTTOM OF DOCK
BOL	BOLLARD
BOW	FG @ BOTTOM OF WALL
BS	BOTTOM OF STAIR
BTW	BETWEEN
BW	BACK OF WALK
BW	BOTH WAYS
BW	BOTTOM OF WALL
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CL	CENTER LINE OR CLASS
CLR	CLEAR
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
CONC	CONCRETE
CONST	CONSTRUCTION OR CONSTRUCT
CONT	CONTINUOUS
CP	CONTROL POINT
CS	CONCRETE SLAB
CTRL	CONTROL
CY	CUBIC YARD
C.3	PROVISION OF THE MUNICIPAL REGIONAL STORMWATER NPDES PERMIT (MRP) THAT REQUIRES EACH DISCHARGER TO CONTROL THE FLOW OF STROMWATER POLLUTANTS FROM NEW DEVELOPMENT AND REDEVELOPMENT SITES OVER WHICH IT HAS JURISDICTION
DBL	DOUBLE
DG	DECOMPOSED GRANITE
DI	DRAIN INLET
DIA	DIAMETER
DOM	DOMESTIC
DW	DOMESTIC WATER
D/W	DRIVEWAY
DWG	DRAWING
E	EAST OR EXISTING
EA	EACH
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
ELEV	ELEVATION
EQ	EQUAL
ES	EQUAL SPACING
EW	EACH WAY
EX, EXIST	EXISTING
(F), FUT	FUTURE
FC	FACE OF CURB
FDC	FIRE DEPARTMENT CONNECTION
FF	FINISHED FLOOR
FG	FINISH GRADE
FL	FLOW LINE
FND	FOUND
FOB	FACE OF BUILDING
FOUND	FOUNDATION
FOC	FACE OF CURB
FS	FINISH SURFACE
FT	FOOT
FW	FIRE WATER
G	GAS
GAL	GALLON
GALV	GALVANIZED
GB	GRADE BREAK
GV	GATE VALVE
HC	HANDICAP FACILITY
HCR	ACCESSIBLE RAMP
HDPE	HIGH DENSITY POLYEHTYLENE
HORIZ	HORIZONTAL
HP	HIGH POINT
HSB	HEAVY SAND BLAST
HT	HEIGHT
IC	IRRIGATION CONTROL
INV	INVERT ELEVATION
IRR	IRRIGATION
JB	JUNCTION BOX
JP	JOINT POLE
JT	JOINT TRENCH
L	LENGTH
LBS	POUNDS
LF	LINEAR FEET
LOW	LIMIT OF WORK
LP	LOW POINT
LSA	LANDSCAPE ARCHITECT
LSB	LIGHT SAND BLAST
LT	LEFT
MAX	MAXIMUM
MDL	MODEL
MECH	MECHANICAL
MED	MEDIUM
MEP	MECHANICAL/ELECTRICAL/PLUMBING
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MON	MONUMENT
MSB	MEDIUM SAND BLAST
MW	MONITORING WELL
N	NEW OR NORTH
NE	NORTH EAST
NIC	NOT IN CONTRACT
NO	NUMBER
NTS	NOT TO SCALE
NW	NORTH WEST
OC	ON CENTER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OG	ORIGINAL GRADE
P	PAVEMENT ELEVATION
PA	PLANTING AREA
PCC	PORTLAND CEMENT CONCRETE
PERF	PERFORATED
PG	PROFILE GRADE
PIV	POST INDICATOR VALVE
PL	PROPERTY LINE
PR	PROPOSED
PVC	POLYVINYL CHLORIDE PIPE
R	RADIUS
RC	RELATIVE COMPACTION
RCP	REINFORCED CONCRETE PIPE
REF	REFERENCE
RET	RETAINING
REINF	REINFORCEMENT
REV	REVISION
RPPA	REDUCED PRESSURE PRINCIPLE ASSEMBLY
RR	RAILROAD
RT	RIGHT
R/W	RIGHT OF WAY
S	SLOPE OR SOUTH
SAD	SEE ARCHITECTURAL DRAWINGS
SCD	SEE CIVIL DRAWINGS
SD	STORM DRAIN
SE	SOUTH EAST
SED	SEE ELECTRICAL DRAWINGS
SF	SILT FENCE
SG	SUBGRADE
SIM	SIMILAR
SL	STREET LIGHT
SLD	SEE LANDSCAPE DRAWINGS
SMD	SEE MECHANICAL DRAWINGS
SMH	SIGNAL MANHOLE
SP	SPACING
SPECS	SPECIFICATIONS
SPD	SEE PLUMBING DRAWINGS
SS	SANITARY SEWER
SST	STAINLESS STEEL
SSD	SEE STRUCTURAL DRAWINGS
ST	STREET
STA	STATION
STD	STANDARD
SQ	SQUARE
SW	SOUTH WEST OR SIDEWALK
S/W	SIDEWALK
T	TREAD
TBD	TO BE DETERMINED
TC	TOP OF CURB
TEL	TELEPHONE
T	TANGENT
T&B	TOP AND BOTTOM
THRU	THROUGH
TOD	TOP OF DOCK
TOE	TOE OF SLOPE
TOS	TOP OF STAIR
TOW	FG @ TOP OF WALL
TS	TOP OF SLAB
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VAR	VARIES
VEH	VEHICAL
VERT	VERTICAL
W	WATER OR WEST
W/	WITH
W/O	WITHOUT
WM	WATER METER
WP	WATERPROOF
WPM	WATERPROOF MEMBRANE
WTR	WATER
WV	WATER VALVE
WWF	WELDED WIRE FABRIC

LAYOUT NOTES

1. CONTRACTOR SHALL VERIFY ALL UTILITIES, GRADES, EXISTING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO COMMENCING WORK. ALL DISCREPANCIES OR QUESTIONS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR RESOLUTION.
2. ALL WRITTEN DIMENSIONS SUPERCEDE ALL SCALED DISTANCES AND DIMENSIONS. DIMENSIONS SHOWN ARE FROM THE FACE OF THE BUILDING, WALL, BACK OF CURB, EDGE OF WALK, PROPERTY LINE, OR CENTERLINE OF COLUMN UNLESS OTHERWISE NOTED ON THE DRAWINGS.
3. ALL DIMENSIONS AT BUILDING ARE TO FACE OF BUILDING. ALL DIMENSIONS AT ROADWAY ARE TO FACE OF CURB.
4. ALL ANGLES ARE 45 DEGREE, 90 DEGREE, OR 135 DEGREE UNLESS OTHERWISE NOTED.
5. ALL CURVES AND ALL TRANSITIONS BETWEEN CURVES AND STRAIGHT EDGES SHALL BE SMOOTH.
6. ALL RETURN RADII AND CURB DATA ARE TO FACE OF CURB.
7. WHENEVER BOTTOM OF WALL (BW) ELEVATION IS GIVEN, IT IS FINISH PAVEMENT OR GRADE ELEVATION AT FACE OF WALL.
8. SCORE LINES IN SIDEWALKS SHALL BE SPACED TO EQUAL THE WIDTH OF THE WALKWAY, UNLESS OTHERWISE SHOWN. EXPANSION JOINTS IN SIDEWALKS SHALL BE 20' ON CENTER MAXIMUM.
9. EXPANSION JOINTS IN CONCRETE WALLS SHALL BE AT 40' O.C. MAXIMUM.
10. BUILDING LAYOUT AND LOCATION, SIDEWALK, CURB AND GUTTER, GRADING AND DRAINAGE IS BASED ON DRAWINGS PREPARED BY THE ARCHITECT AND THE CIVIL ENGINEER.
11. STATIONING HEREON IS ALONG CONSTRUCTION CENTERLINE UNLESS OTHERWISE SHOWN OR INDICATED.
12. ANY EXTRA CONSTRUCTION STAKING NECESSITATED SOLELY BY THE CONTRACTOR'S NEGLIGENCE WILL BE CHARGED TO THE CONTRACTOR ON A TIME AND EXPENSES BASIS AND PAID FOR BY THE CONTRACTOR.
13. SEE IRRIGATION DRAWINGS FOR GENERAL SYSTEM REQUIREMENTS AND FOR LOCATION OF IRRIGATION MAINLINE PIPING. SLEEVES TO ACCOMMODATE IRRIGATION PIPING, SIZED AS NEEDED, SHALL BE IN PLACE UNDER AND THROUGH SLABS AND WALLS, PRIOR TO POURING.
14. PROVIDE CONTINUOUS HEADERS AT THE EDGES OF ALL AC PAVING, SHRUB AREAS, LAWN AREAS, DECOMPOSED GRANITE WHERE IT IS NOT CONSTRAINED BY A CONCRETE PAVING OR MOW BAND.
15. ALL CONCRETE PAVEMENTS SHALL BE DOWELED INTO CURBS, SIDEWALKS, AND BUILDING FOUNDATIONS.
16. REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION, SECTIONS, REINFORCEMENT, AND PREPARATION. IN CASE OF DISCREPANCY THE GEOTECHNICAL REPORT SHALL GOVERN.
17. ALL TYPICAL DETAILS SHALL APPLY UNLESS NOTED OTHERWISE.
18. ANY AND ALL WORK WITHIN CITY RIGHT OF WAY SHALL CONFORM TO ALL CITY STANDARD DETAILS AND SPECIFICATIONS.
19. CONCRETE FOOTINGS INSTALLED FOR ALL SITE FURNISHINGS, SPORTS EQUIPMENT, ETC. IN DECORATIVE PAVEMENT, ASPHALT PAVING, DECOMPOSED GRANITE, CONCRETE PAVING, AND PLANTERS SHALL BE HELD BELOW GRADE.
20. ALL EXISTING ITEMS TO REMAIN SHALL BE PROTECTED AS REQUIRED. ANY DAMAGED ITEMS SHALL BE FULLY REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE TO THE FULL SATISFACTION OF THE OWNER.
21. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH SUBCONTRACTORS AS REQUIRED TO ACCOMPLISH OPERATIONS.
22. ALL QUANTITIES AND PAY ITEMS ARE AND WILL BE BASED ON HORIZONTAL MEASUREMENTS.
23. ALL PATTERNS, LINE TYPES, AND SYMBOLS SHOWN WITHIN THE PLAN SET REFERENCE THE LAYOUT LEGEND AND ARE PART OF THE SCOPE OF WORK. CALLOUTS ARE SHOWN FOR CLARIFICATION OF WORK, BUT DO NOT INDICATE EVERY AND ALL INSTANCES OF SUCH WORK. THE CONTRACTOR SHALL REQUEST CLARIFICATION TO ANY ITEMS (INCLUDING BUT NOT LIMITED TO PAVING, WALLS, FINISHES, COLORS, FENCING, FOUNTAINS, POTS, AND SITE FURNITURE) NOT CLEARLY IDENTIFIED TO BE PART OF THE SCOPE OF WORK PRIOR TO BID.
24. THE CONTRACT DRAWINGS MUST BE ACCOMPANIED BY CONTRACT SPECIFICATIONS. THE CONTRACTOR MUST CONTACT THE LANDSCAPE ARCHITECT AT 925-736-8176 FOR SPECIFICATIONS IF NOT RECEIVED.
25. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK AND MATERIALS OF THE CONTRACT DOCUMENTS INCLUDING ALL WORK AND MATERIALS PROVIDED BY SUBCONTRACTORS. ALL QUALIFICATIONS OF THE CONTRACT DOCUMENTS INCLUDING ALL SPECIFIC EXCLUSIONS OF ANY WORK, DETAILS, MATERIALS, AND INCIDENTALS SHALL BE CONFIRMED AND ACCEPTED IN WRITING BY THE CONTRACTOR AND OWNER UPON FINALIZATION OF BIDS AND CONTRACT. THE LANDSCAPE ARCHITECT SHALL BE NOTIFIED OF ALL QUALIFICATIONS AND NOTIFICATIONS.

NO.	REVISION	BY	DATE

DESIGNED MR / SW
DRAWN SW / MM
CHECKED MR
APPROVED
DATE

PROJECT NAME: PICKLEWEED PARK ENHANCEMENTS
DRAWING NAME: LAYOUT NOTES
SAN RAFAEL COUNTY OF MARIN CALIFORNIA

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING - URBAN DESIGN
www.gates-associates.com
T 925.736.8176 www.gatesla.com

NOT FOR CONSTRUCTION

REGISTERED LANDSCAPE ARCHITECT
CHRISTY CHEE No. 6340
6/30/2024
12/31/2023
STATE OF CALIFORNIA

100% CDS
CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE:
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: L0.10

LAYOUT LEGEND

PAVING SCHEDULE

SYMBOL	NAME	DETAIL	DESCRIPTION/ MANUFACTURER	MODEL	COLOR AND FINISH
	ALL-WEATHER TURF	1/L4.21	FIELDTURF	TBD	--
	DECOMPOSED GRANITE	5/L4.20	--	--	TAN - "CALIFORNIA GOLD"
	PEDESTRIAN CONCRETE PAVING	1/L4.20	--	--	STANDARD GREY, BROOM
	REINFORCED CONCRETE PAVING	--	--	--	STANDARD GREY, BROOM
	RESILIENT WOOD SURFACING	3,4,5/L4.21	--	--	--
	VEHICULAR AC PAVING	S.C.D.	--	--	--

FENCE AND GATE SCHEDULE

SYMBOL	NAME	DETAIL	DESCRIPTION/ MANUFACTURER	MODEL	COLOR AND FINISH
	6' HT. CHAIN LINK FENCE	2/L4.30	--	--	BLACK
	8' HT. CHAIN LINK FENCE	3/L4.30	--	--	BLACK
	7' HT. SINGLE GATE	1/4.31	--	--	BLACK
	7' HT. DOUBLE GATE	2/L4.31	--	--	BLACK
	8' HT. SINGLE GATE	3/L4.31	--	--	BLACK
	6' HT. X 12' W. CHAIN LINK ROLLING GATE	1/L4.32	--	--	BLACK
	6' HT. X 20' W. CHAIN LINK ROLLING GATE	1/L4.32	--	--	BLACK
	8' HT. X 20' W. CHAIN LINK ROLLING GATE	1/L4.32	--	--	BLACK

SITE FURNISHING SCHEDULE

SYMBOL	NAME	DETAIL	DESCRIPTION/ MANUFACTURER	MODEL	COLOR AND FINISH
	SIGNAGE	3/L4.52	OUTDOOR RECREATIONS	-	-
	BENCH	1/L4.50	DUMOR PRODUCT	105-60D	DEEP RED
	SAGE (SGE-36SA) TRASH AND RECYCLING RECEPTACLES	6/L4.50	VICTOR STANLEY	SAGE (SGE-36SA)	STANDARD GREY
	BIKE RACK	2/L4.50	BARCO PRODUCT	PARK-IT 2 BIKE RACKS BR-15	BLACK
	DRINKING FOUNTAIN	3/L4.50	MOST DEPENDABLE FOUNTAINS, INC.	10145 SMFA W/ BOTTLE FILLER	TEXTURED PYRITE
	REMOVABLE BOLLARD	4/L4.50	DUMOR	BOLLARD 400-42	YELLOW
	SPORTS - BASEBALL BACKSTOP	4/L4.30	-	-	-
	SPORTS - BASKETBALL POLE, NET & RIM, AND BACKBOARD	1,2,3/L4.22	LA STEELCRAFT	POST-LA-12C46, NET-#34, RIM-#45, BACKBOARD-LA-24T	ASH GRAY
	SPORTS - SOCCER GOAL	--	LA STEELCRAFT	LA-2235-00A-EXTRA HEAVY DUTY NCAA SOCCER GOALS 8' X 24' WITH 3 NET SUPPORTS, ALUMINIUM (PORTABLE)	-

EQUIPMENT AND STRUCTURE SCHEDULE

SYMBOL	NAME	DETAIL	DESCRIPTION/ MANUFACTURER	MODEL	COLOR AND FINISH
	ADULT FITNESS - AB CRUNCH/LEG LIFT	1/L4.51	LANDSCAPE STRUCTURES HEALTHBEAT®	AB CRUNCH/LEG LIFT 192451A	LSI PLAY AY
	ADULT FITNESS - CHEST/BACK PRESS	2/L4.51	LANDSCAPE STRUCTURES HEALTHBEAT®	CHEST/BACK PRESS 192456A	LSI PLAY AY
	ADULT FITNESS - PARALLEL BARS	3/L4.51	LANDSCAPE STRUCTURES HEALTHBEAT®	PARALLEL BARS 192453A	LSI PLAY AY
	ADULT FITNESS - PLYOMETRICS	4/L4.51	LANDSCAPE STRUCTURES HEALTHBEAT®	PLYOMETRICS 192459A	LSI PLAY AY
	ADULT FITNESS - STRETCH	5/L4.51	LANDSCAPE STRUCTURES HEALTHBEAT®	STRETCH 192462A	LSI PLAY AY
	GAZEBO	1/L4.52	CEDAR FOREST PRODUCTS	SAVANNAH - 28', 2-TIER	SHINGLE-PATRIOT RED, STEEL BASE SHOE-DUSTY GRAY RAL 7037
	STORAGE UNIT	2/L4.52	FOOTHILL COUNTRY SHEDS	16'L X 12'W X 8'H	LIGHTSTONE PANELS, TUDOR BROWN TRIM, WHITE DOOR
		2/L4.52	FOOTHILL COUNTRY SHEDS	16'L X 12'W X 8'H	LIGHTSTONE PANELS, TUDOR BROWN TRIM, WHITE DOOR
	TODDLER PLAY EQUIPMENT	1/L4.53	LANDSCAPE STRUCTURES	CUSTOM AIRPLANE	LSI PALETTE AJ
		1/L4.53	LANDSCAPE STRUCTURES	CUSTOM CAR (2)	LSI PALETTE AJ
		1/L4.53	LANDSCAPE STRUCTURES	CUSTOM PLAYHOUSE	LSI PALETTE AJ
	RESTROOM (OFCI)	--	CXT	DAKOTA - 11'L X 26'W	UPPER WALL TEXTURE: SPLIT FACE BLOCK, LOWER WALL TEXTURE: SMOOTH, UPPER WALL COLOR: DE6142 FLOATING FEATHER (DUNN EDWARDS), LOWERWALL COLOR: UNFINISHED NO SEALER NO PAINT, ROOF TEXTURE: RIBBED METAL, ROOF COLOR: GEORGIA BRICK, TRIM AND DOOR PAINT: DTM ALKYD ENAMEL BROWN. 2K ANTI-GRAFFITI REQUIRED

SYMBOLS LEGEND

SYMBOL	NAME	SYMBOL	NAME
	BIORETENTION, S.C.D.	L.O.W.	LIMIT OF WORK
PA	PLANTING AREA		SCORE LINE
	HYDROSEED	EJ	EXPANSION JOINT
	MULCH		SOD

NO.	REVISION	BY	DATE

DESIGNED MR / SW
DRAWN SW / MM
CHECKED MR
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS
SAN RAFAEL COUNTY OF MARIN CALIFORNIA

DRAWING NAME
LAYOUT LEGEND

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING - URBAN DESIGN
T 650.766.6174 www.tgasoa.com

NOT FOR CONSTRUCTION

REGISTERED LANDSCAPE ARCHITECT CHRIST GATES No. 5542 Revised 6/30/2024 12/31/2025 LA STATE OF CALIFORNIA

100% CDS
CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE:
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: L0.11

PLANTING NOTES

GENERAL

1. ALL WORK SHALL BE PERFORMED BY PERSONS FAMILIAR WITH PLANTING WORK AND UNDER THE SUPERVISION OF A QUALIFIED PLANTING FOREMAN.

2. ALL QUANTITIES AND PLANT COUNTS ARE FOR THE CONVENIENCE OF THE CONTRACTOR. IN CASE OF DISCREPANCIES, THE PLAN SHALL GOVERN.

3. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO MAKE SUBSTITUTIONS, ADDITIONS, AND 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.

5. THE DESIGN INTENT OF THE PLANTING PLAN IS TO ESTABLISH AN ATTRACTIVE MATURE LANDSCAPE 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.

8. 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: 5' MINIMUM
   - LIGHT POLES: 10' MINIMUM
   - UTILITIES: 5' 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 ROOT BOUND, 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.

2. ANY DAMAGED MATERIAL MUST BE FULLY REPLACED TO MATCH EXISTING BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT AND OWNER.

3. CONTRACTOR MUST MAINTAIN ANY EXISTING IRRIGATION SYSTEMS OR PROVIDE TEMPORARY IRRIGATION SYSTEMS AS REQUIRED TO ALL EXISTING PLANTING AREAS TO REMAIN.

SOILS

1. 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 EQUAL) 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.

5. ALL LIME TREATED SOILS IN AREAS TO RECEIVE PLANTING SHALL BE FULLY REMOVED AND 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.

6. 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

8. FOR BID PURPOSES AMEND ALL SOIL WITH 6 YARDS OMRI COMPOST, 50LBS 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.

9. 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.

10. ALL PLANTERS IN AREAS WHICH HAVE BEEN COMPACTED, SUCH AS CONSTRUCTION STAGING AREAS AND IN PARKING LOTS, SHALL BE CROSS RIPPED TO THE FOLLOWING DEPTHS: PLANTERS LESS THAN THREE (3) 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' WIDE SHALL HAVE COMPACTION RELIEVED TO A MINIMUM DEPTH OF 12" BELOW SUBGRADE. AREAS SHALL BE PROTECTED AFTER DECOMPACTION.

11. CONTRACTOR SHALL PERFORM A PERCOLATION TEST AT THE BEGINNING OF 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'-0" 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.

4. PROVIDE 4" BERM AROUND TREE FOR WATER BASIN. SEE TREE STAKING DETAIL. 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.

5. 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.

6. 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.

SHRUBS AND GROUNDCOVERS

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

2. 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

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.

2. 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.

3. DURING THE INSTALLATION OF LANDSCAPING AND INSTALLATION AND PRIOR TO THE ISSUANCE OF A BUILDING OCCUPANCY PERMIT, THE LANDSCAPE ARCHITECT MUST INSPECT AND MONITOR THE INSTALLATION OF MATERIALS TO VERIFY CONFORMANCE TO THESE PLANS. ONCE APPROVED, THE LANDSCAPE ARCHITECT SHALL PROVIDE A WRITTEN LETTER TO DEPARTMENT OF PLANNING AND DEVELOPMENT STATING COMPLIANCE WITH THE APPROVED PLANS.

PLANT SCHEDULE - PHASE 1

CODE	BOTANICAL NAME	COMMON NAME	SIZE	WATER USE	SPACING	QTY
TREES						
AMA	ARBUTUS X 'MARINA'	MARINA STRAWBERRY TREE	24" BOX	L	AS SHOWN	2
LFM	LAGERSTROEMIA INDICA X FAURIEI 'MUSKOGEE'	MUSKOGEE CRAPE MYRTLE	24" BOX	L	AS SHOWN	3
QUV	QUERCUS VIRGINIANA	SOUTHERN LIVE OAK	24" BOX	L	AS SHOWN	8
UPD	ULMUS PARVIFOLIA 'DRAKE'	DRAKE ELM	24" BOX	L	AS SHOWN	2
SHRUBS						
CM	CEANOTHUS MARITIMUS 'POPCORN'	POPCORN MARITIME CEANOTHUS	1 GAL			26
SL	SALVIA LEUCANTHA 'SANTA BARBARA'	SANTA BARBARA MEXICAN BUSH SAGE	1 GAL	L	36" O.C.	17
ZC	ZAUSCHNERIA CALIFORNICA 'SCHIEFFELIN'S CHOICE'	CALIFORNIA FUCHSIA	1 GAL	L	36" O.C.	133
C3						
MA	MIMULUS AURANTIACUS	STICKY MONKEYFLOWER	1 GAL	L	36" O.C.	55
GRASSES						
CT	CHONDROPETALUM TECTORUM	CAPE RUSH	1 GAL	L	36" O.C.	205
JP	JUNCUS PATENS	CALIFORNIA GRAY RUSH	1 GAL	L	24" O.C.	307
LL	LOMANDRA LONGIFOLIA 'LOMLON'	LIME TUFF DWARF MAT RUSH	1 GAL	L	36" O.C.	330
SP	STIPA PULCHRA	PURPLE NEEDLE GRASS	1 GAL	L	48" O.C.	145

CODE	BOTANICAL NAME	COMMON NAME	CONT	WATER USE	SPACING	QTY
GROUND COVERS						
HS	HYDROSEED	NATIVE SEED MIX	HYDROSEED	L		21,469 SF

NOTE-HYDROSEED MIX- AQUAWISE NON MOW FINE FESCUE MIX:
1. 34% XERIX CREEPING RED FESCUE
2. 33% HEATHLAND CHEWINGS FESCUE
3. 33% NANOOK HARD FESCUE

PLANT SCHEDULE - PHASE 1 ADD ALTERNATE

CODE	BOTANICAL NAME	COMMON NAME	SIZE	WATER USE	SPACING	QTY
GROUND COVERS						
TB	TURF SOD BOLERO PLUS	FESCUE BLEND	FLAT	L		2,538 SF

PLANT SCHEDULE - PHASE 2

CODE	BOTANICAL NAME	COMMON NAME	SIZE	WATER USE	SPACING	QTY
TREES						
PIC	PISTACIA CHINENSIS	CHINESE PISTACHE	24" BOX	L	AS SHOWN	7
UPD	ULMUS PARVIFOLIA 'DRAKE'	DRAKE ELM	24" BOX	L	AS SHOWN	4
SHRUBS						
SL	SALVIA LEUCANTHA 'SANTA BARBARA'	SANTA BARBARA MEXICAN BUSH SAGE	1 GAL	L	36" O.C.	54
GRASSES						
LL	LOMANDRA LONGIFOLIA 'LOMLON'	LIME TUFF DWARF MAT RUSH	1 GAL	L	36" O.C.	257

CODE	BOTANICAL NAME	COMMON NAME	CONT	WATER USE	SPACING	SPACING	QTY
GROUND COVERS							
HS	HYDROSEED	NATIVE SEED MIX	HYDROSEED	L			9,439 SF

NOTE-
HYDROSEED MIX- AQUAWISE NON MOW FINE FESCUE MIX:
1. 34% XERIX CREEPING RED FESCUE
2. 33% HEATHLAND CHEWINGS FESCUE
3. 33% NANOOK HARD FESCUE

WATER USE RATING LEGEND:
WUCOLS IV CATEGORIES OF WATER NEEDS FROM: UNIVERSITY OF CALIF COOPERATIVE EXTENSION, CALIF DEPARTMENT OF WATER RESOURCES, U.S. BUREAU OF RECLAMATION
- H = HIGH
- M = MODERATE
- L = LOW
- VL = VERY LOW

"I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLAN."

SIGNATURE _____ 12/21/2023 DATE

PLANTING LEGEND

XXX / ## — TREE NAME / QUANTITY — SEE PLANT LIST FOR ADDT'L. INFO. — 1,4 / L4.10

XX / ## — SHRUB NAME / QUANTITY — SEE PLANT LIST FOR ADDT'L INFO. — 2,3 / L4.10

NO.	REVISION	BY	DATE

DESIGNED MR / SW
DRAWN SW / MM
CHECKED MR
APPROVED
DATE

PROJECT NAME: PICKLEWEED PARK ENHANCEMENTS
DRAWING NAME: PLANTING NOTES AND PLANT SCHEDULE
SAN RAFAEL — COUNTY OF MARIN — CALIFORNIA

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING · URBAN DESIGN
T 510.756.3176 www.gatesla.com

NOT FOR CONSTRUCTION

REGISTERED LANDSCAPE ARCHITECT · CHRIS GATES · No. 6260 · STATE OF CALIFORNIA
Expires 5/30/2024
Renewal Date 12/21/2023
LA

100% CDS
CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE:
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: L0.20

L.O.W.

L.O.W.

PA

SPORTS – BASEBALL BACKSTOP, TYP. OF (2) — 4 / L4.30

VICTOR & STANLEY TRASH AND RECYCLING RECEPTACLES

7' HT. SINGLE GATE, TYP. OF (3) — 1 / L4.31

6' HT. CHAIN LINK FENCE, TYP. — 2 / L4.30

DECOMPOSED GRANITE W/ REDWOOD HEADER — 5 / L4.20

REDWOOD HEADER — 4 / L4.20

MULCH

ALL-WEATHER TURF — 1 / L4.21

ALL-WEATHER TURF SPORTS FIELDS STRIPING, TYP. — 1 / L4.40 — 1 / L4.41

VEHICULAR AC PAVING, S.C.D.

6' HT. X 20' W. CHAIN LINK ROLLING GATE — 1 / L4.32

7' HT. DOUBLE GATE, TYP. OF (6) — 2 / L4.31

SPORTS – SOCCER GOAL, TYP OF (4)

1 / L4.32 SIM. — 6' HT. X 12' W. CHAIN LINK ROLLING GATE

SHORELINE BAND JURISDICTION LINE

MHHW

AC PATH

MATCHLINE – SEE SHEET L1.12A

MATCHLINE – SEE SHEET L1.11A

KEY MAP

0' 10' 20' 40'

0" ½" 1" 2"

NO.	REVISION	BY	DATE

DESIGNED MR / SW
DRAWN SW / MM
CHECKED MR
APPROVED

DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
LAYOUT PLAN - PHASE 1 (FIELD)

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

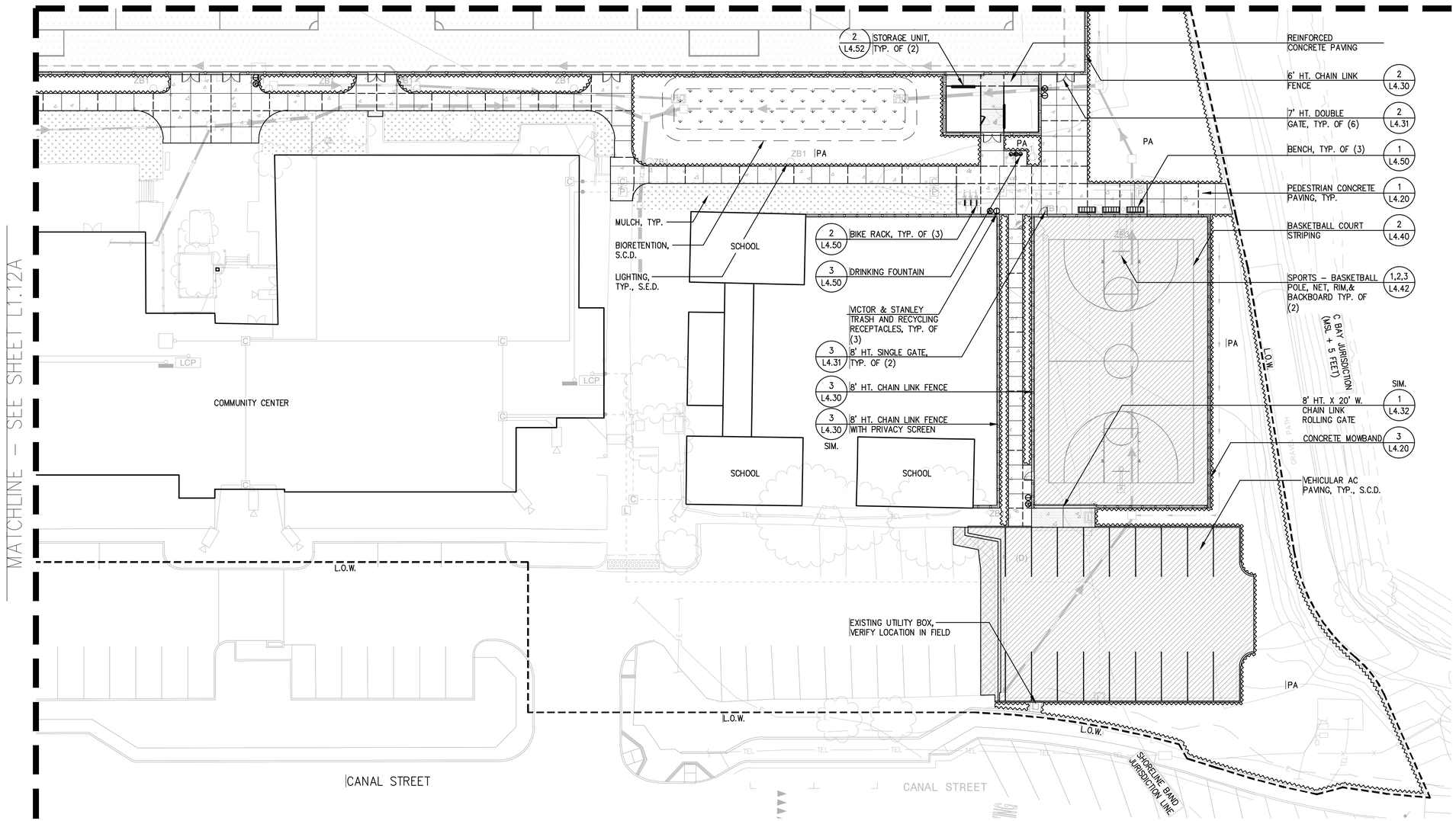
GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING · URBAN DESIGN

NOT FOR CONSTRUCTION

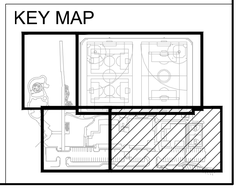
REGISTERED LANDSCAPE ARCHITECT · CASEY CASE · NO. 6000 · STATE OF CALIFORNIA
Signature 6/20/2024
Renewal Date 12/21/2025
Seal LA

100% CDS
CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE: 1"=20'-0"
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: L1.10A



KEY MAP



0' 10' 20' 40'

0" ½" 1" 2"

NO.	REVISION	BY	DATE

DESIGNED MR / SW
DRAWN SW / MM
CHECKED MR
APPROVED

DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
LAYOUT PLAN - PHASE 1

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING URBAN DESIGN
(415) 776-7474 www.gates.com

NOT FOR CONSTRUCTION

REGISTERED LANDSCAPE ARCHITECT
CASEY CASE No. 6202
Signature
Expiration Date 12/31/2025
STATE OF CALIFORNIA

100% CDS

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE: 1"=20'-0"
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: L1.11A

MATCHLINE – SEE LEFT

MATCHLINE – SEE SHEET L1.10A

MATCHLINE – SEE SHEET L1.11A

MATCHLINE – SEE RIGHT

PA

L.O.W.

LIGHTING, TYP., S.E.D.

BIORETENTION, S.C.D.

EXISTING SHADE STRUCTURE

EXISTING FENCE TO REMAIN, TYP.

BIKE RACK, TYP. OF (3) — 2 / L4.50

PREFAB RESTROOM, OFCI

VICTOR & STANLEY TRASH AND RECYCLING RECEPTACLES, TYP. OF (2)

DRINKING FOUNTAIN — 3 / L4.50

EXISTING PICNIC AREA

PREFAB RESTROOM FOUNDATION — 2 / L4.21

REINFORCED CONCRETE PAVING

VEHICULAR AC PAVING, S.C.D.

PARK SIGNAGE — 3 / L4.52

DECOMPOSED GRANITE TO RESTORE ALL CONFORM EDGES

7' HT. DOUBLE GATE — 2 / L4.31

PEDESTRIAN CONCRETE PAVING, TYP. — 1 / L4.20

MULCH, TYP.

MULCH

3 / L4.20 DECOMPOSED GRANITE W/ CONCRETE MOWBAND

VICTOR & STANLEY TRASH AND RECYCLING RECEPTACLES, TYP. OF (2)

VEHICULAR AC PAVING, S.C.D.

BIORETENTION, S.C.D.

3 / L4.51 ADULT FITNESS – PARALLEL BARS

1 / L4.51 ADULT FITNESS – AB CRUNCH/LEG LIFT

4 / L4.51 ADULT FITNESS – PYLOMETRICS

C / L4.51 ADULT FITNESS – CHEST/BACK PRESS

5 / L4.51 ADULT FITNESS – STRETCH

REINFORCED CONCRETE PAVING

EXISTING PLAY STRUCTURE

1 / L4.52 GAZEBO

BENCHMARK MAG NAIL ELEV: 6.08

CANAL STREET

CANAL STREET

KEY MAP

0' 10' 20' 40'

0" ½" 1" 2"

DESIGNED	MR / SW	NO.	DATE
DRAWN	SW / MM	REVISION	BY
CHECKED	MR		DATE
APPROVED			DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
LAYOUT PLAN - PHASE 1

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING · URBAN DESIGN

NOT FOR CONSTRUCTION

REGISTERED LANDSCAPE ARCHITECT · CHRIS GATES · No. 5025 · STATE OF CALIFORNIA
6/30/2024 Renewal Date
12/31/2023 Date
LA

100% CDS

CITY OF SAN RAFAEL

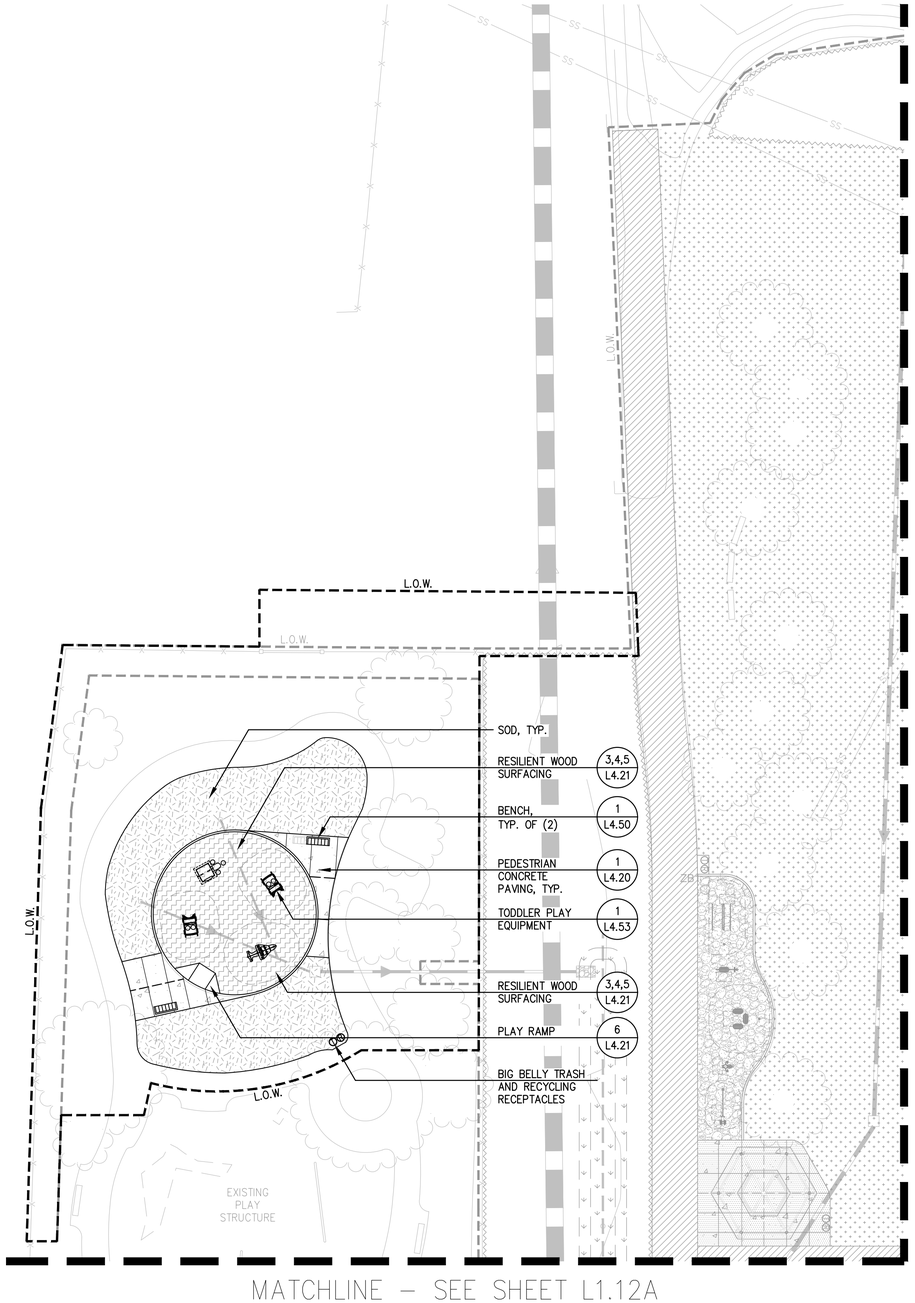
DEPARTMENT OF PUBLIC WORKS

SCALE: 1"=20'-0"

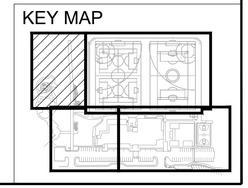
DATE: 05/15/24

CITY PROJECT NO.: 11376

SHEET NO.: L1.12A



KEY MAP



0' 10' 20' 40'
0" 1/2" 1" 2"

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
LAYOUT PLAN - PHASE 1 ADD ALT

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

DESIGNED	MR / SW		
DRAWN	SW / MM		
CHECKED	MR		
APPROVED			
		DATE	DATE

NO.	REVISION	BY	DATE

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING - URBAN DESIGN
SAN RAFAEL, SAN FRANCISCO, OAKLAND
T 415.754.2770 www.gatesassoc.com

NOT FOR CONSTRUCTION

REGISTERED LANDSCAPE ARCHITECT
CHRIST CHASE No. 5032
Signature
6/30/2024
Renewal Date
12/31/2023
Date
L.A.
STATE OF CALIFORNIA

100% CDS

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE: 1"=20'-0"
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: L1.13A

MATCHLINE – SEE SHEET L1.12A

L.O.W.

PA

PHASE 1
SEE L1.10A

L.O.W.

PA

L.O.W.

AC PATH

SHORELINE BAND JURISDICTION LINE

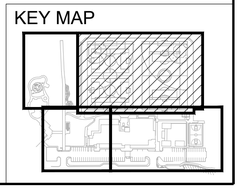
AC PATH

MATCHLINE – SEE SHEET L1.12A

MATCHLINE – SEE SHEET L1.11B

NOTE:
1. NO WORK EXCEPT PLANTING IN THIS AREA FOR PHASE 2.

KEY MAP



0' 10' 20' 40'
0" 3/4" 1" 2"

NO.	REVISION	BY	DATE

DESIGNED MR / SW
DRAWN SW / MM
CHECKED MR
APPROVED

DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
LAYOUT PLAN - PHASE 2 (FIELD)

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING - URBAN DESIGN
SAN FRANCISCO BEVERLY HILLS MOUNTAIN VIEW DENVER
T 760.744.2778 www.gatesassoc.com

NOT FOR CONSTRUCTION

REGISTERED LANDSCAPE ARCHITECT CHRIS GATES No. 3240 6/30/2024 Renewal Date 12/21/2023 LA STATE OF CALIFORNIA

100% CDS
CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE: 1"=20'-0"
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: L1.10B

MATCHLINE – SEE SHEET L1.10B

MATCHLINE – SEE SHEET L1.12A

PEDESTRIAN CONCRETE PAVING — 1 / L4.20

LIGHTING, TYP., S.E.D.

PHASE 1
SEE L1.11A

REMOVABLE BOLLARD, TYP. OF (3) — 3 / L4.50

VEHICULAR AC PAVING, TYP., S.C.D.

EXISTING UTILITY BOX, VERIFY LOCATION IN FIELD

COMMUNITY CENTER

SCHOOL

CANAL STREET

L.O.W.

SHORELINE BAND JURISDICTION LINE

BCDC BAY JURISDICTION (MSL + 5 FEET)

KEY MAP

0' 10' 20' 40'

0" ½" 1" 2"

NO.	REVISION	BY	DATE

DESIGNED MR / SW
DRAWN SW / MM
CHECKED MR
APPROVED

DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
LAYOUT PLAN - PHASE 2

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING · URBAN DESIGN

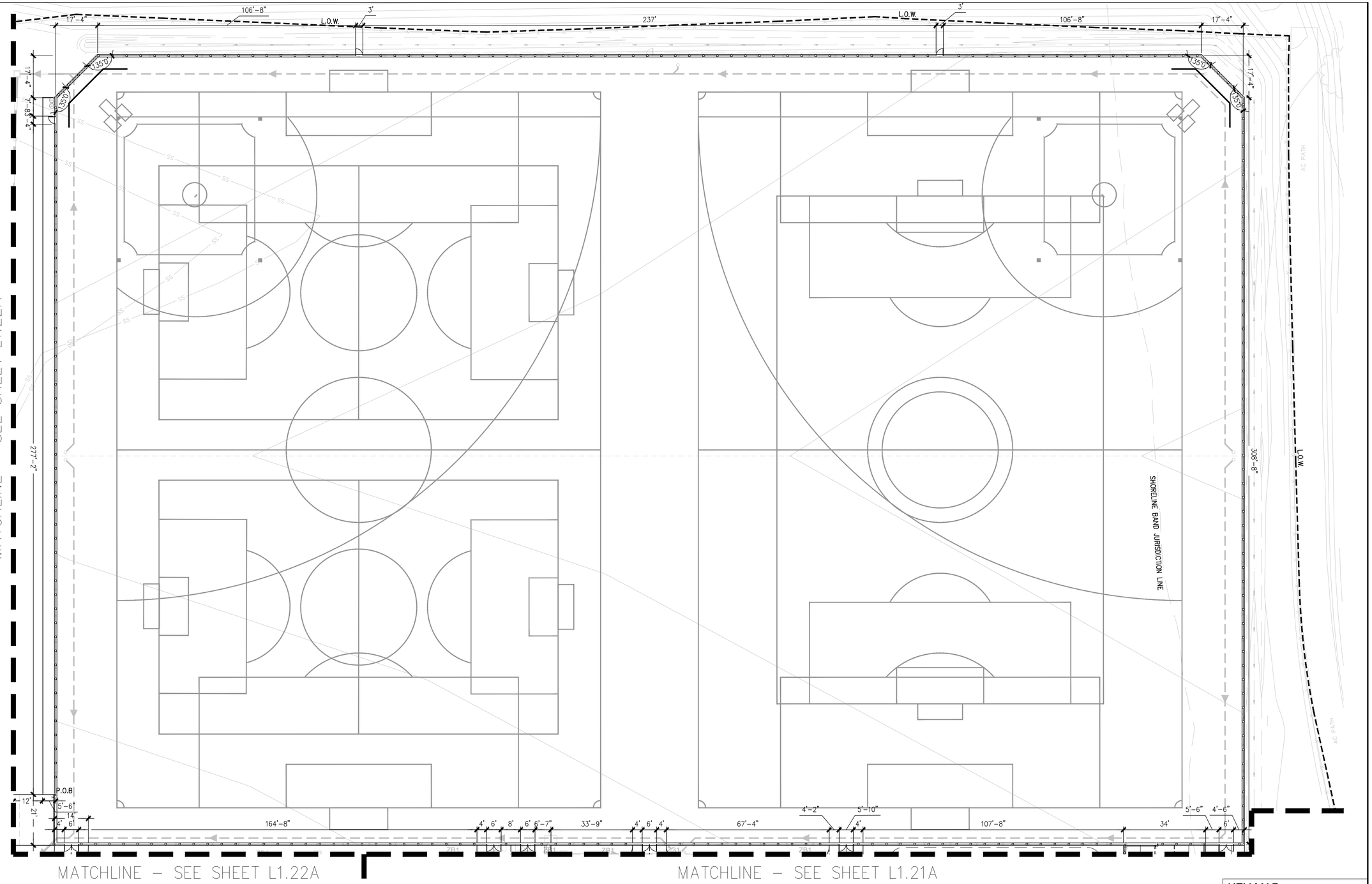
NOT FOR CONSTRUCTION

REGISTERED LANDSCAPE ARCHITECT — CASEY CASE — No. 6065 — STATE OF CALIFORNIA
Signature
6/30/2024
Renewal Date
12/31/2025
LA

100% CDS

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE: 1"=20'-0"
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: L1.11B



KEY MAP

0' 10' 20' 40'

DESIGNED	MR / SW	NO.	REVISION	BY	DATE
DRAWN	SW / MM				
CHECKED	MR				
APPROVED					
	DATE				DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
DIMENSION PLAN - PHASE 1 (FIELD)

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING - URBAN DESIGN

NOT FOR CONSTRUCTION

REGISTERED LANDSCAPE ARCHITECT
CHRIS GATES - No. 5048
Expires 6/30/2024
12/31/2023
STATE OF CALIFORNIA

100% CDS
CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE: 1"=20'-0"
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: L1.20A

MATCHLINE – SEE SHEET L1.20A

MATCHLINE – SEE SHEET L1.22A

COMMUNITY CENTER

SCHOOL

SCHOOL

SCHOOL

P.O.B

L.O.W.

L.O.W.

L.O.W.

L.O.W.

BCDC BAY JURISDICTION (MSL + 5 FEET)

SHORELINE BAND JURISDICTION LINE

GRAVEL PATH

CANAL STREET

LCP

LCP

ZB1

KEY MAP

0' 10' 20' 40'

0" ½" 1" 2"

DESIGNED	MR / SW	NO.	DATE
DRAWN	SW / MM	REVISION	BY
CHECKED	MR		DATE
APPROVED		DATE	

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
DIMENSION PLAN - PHASE 1

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING · URBAN DESIGN
SAN FRANCISCO, OAKLAND, SACRAMENTO, SAN DIEGO, SEATTLE, PORTLAND, DENVER
T 925.754.2775 www.gatesassoc.com

NOT FOR CONSTRUCTION

REGISTERED LANDSCAPE ARCHITECT CHRIS GATES No. 3236 Signature 6/30/2024 Renewal Date 12/21/2025 LA STATE OF CALIFORNIA

100% CDS

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE: 1"=20'-0"
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: L1.21A

MATCHLINE – SEE LEFT

MATCHLINE – SEE SHEET L1.20A

MATCHLINE – SEE SHEET L1.21A

MATCHLINE – SEE RIGHT

L.O.W.

EXISTING SHADE STRUCTURE

EXISTING PICNIC AREA

EXISTING PLAY STRUCTURE

CANAL STREET

KEY MAP

0' 10' 20' 40'

0" ½" 1" 2"

DESIGNED	MR / SW	NO.	DATE
DRAWN	SW / MM	REVISION	BY
CHECKED	MR		DATE
APPROVED			DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
DIMENSION PLAN - PHASE 1

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING · URBAN DESIGN
www.gatesla.com 1 760.754.8178

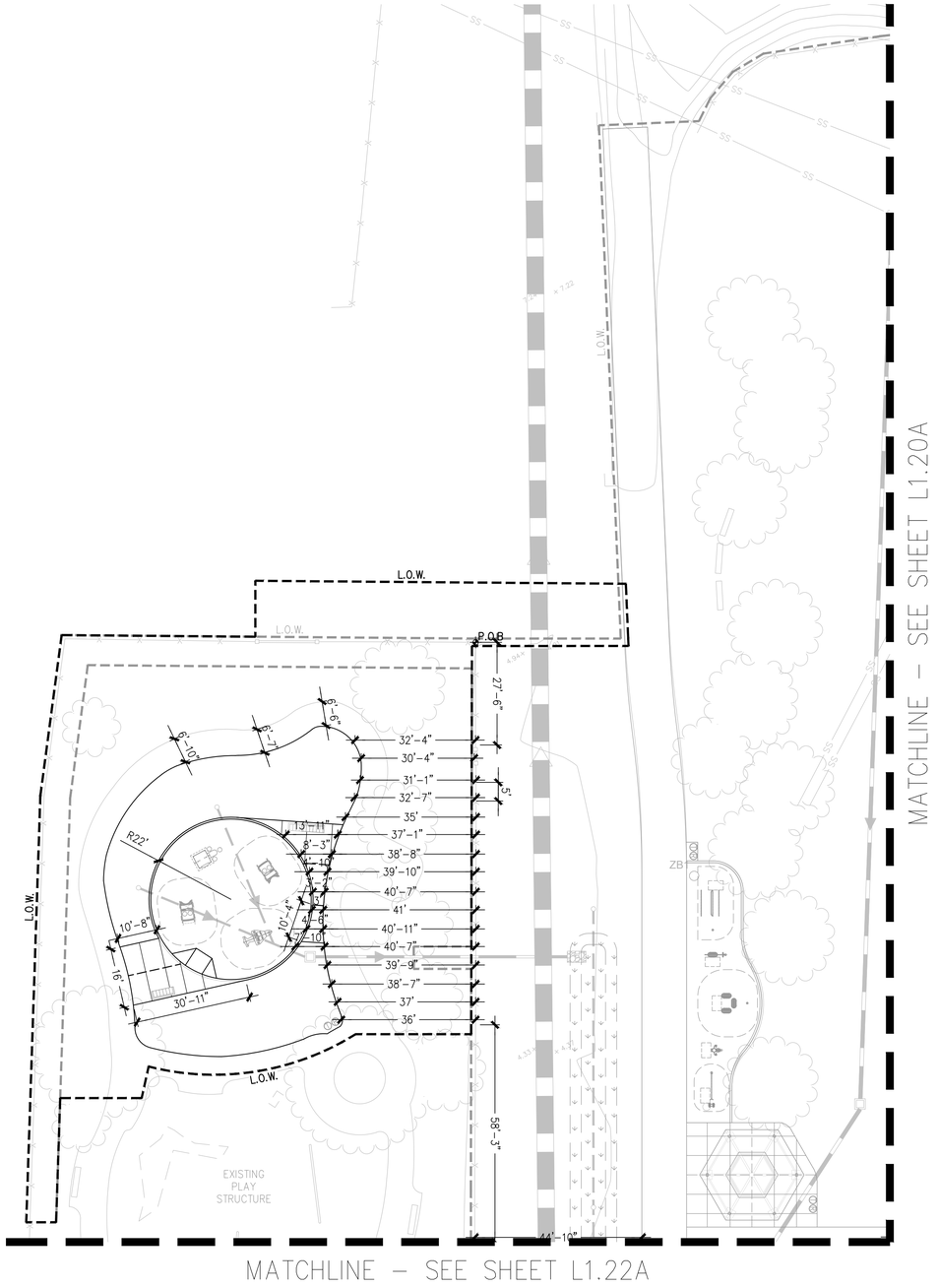
NOT FOR CONSTRUCTION

REGISTERED LANDSCAPE ARCHITECT · STATE OF CALIFORNIA · CHRIS CASE · No. 6062 · Expiration 6/30/2024 · Renewal Date 12/31/2023 · LA

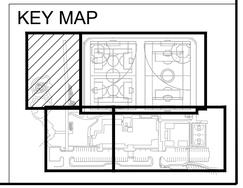
100% CDS

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE: 1"=20'-0"
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: L1.22A



KEY MAP



0' 10' 20' 40'

0" ½" 1" 2"

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
DIMENSION PLAN - PHASE 1 ADD ALT

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

		NO.	REVISION	BY	DATE
DESIGNED	MR / SW				
DRAWN	SW / MM				
CHECKED	MR				
APPROVED					
	DATE				DATE

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING - URBAN DESIGN

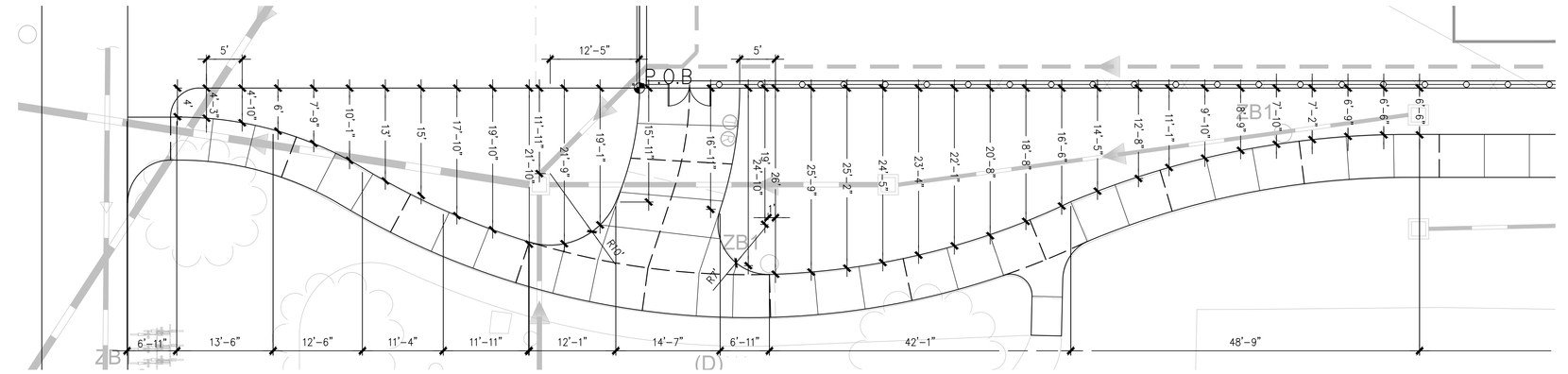
NOT FOR CONSTRUCTION

REGISTERED LANDSCAPE ARCHITECT
CASEY CASE • No. 6065
STATE OF CALIFORNIA
Signature
6/30/2024
Renewal Date
12/31/2025
Seal
LA

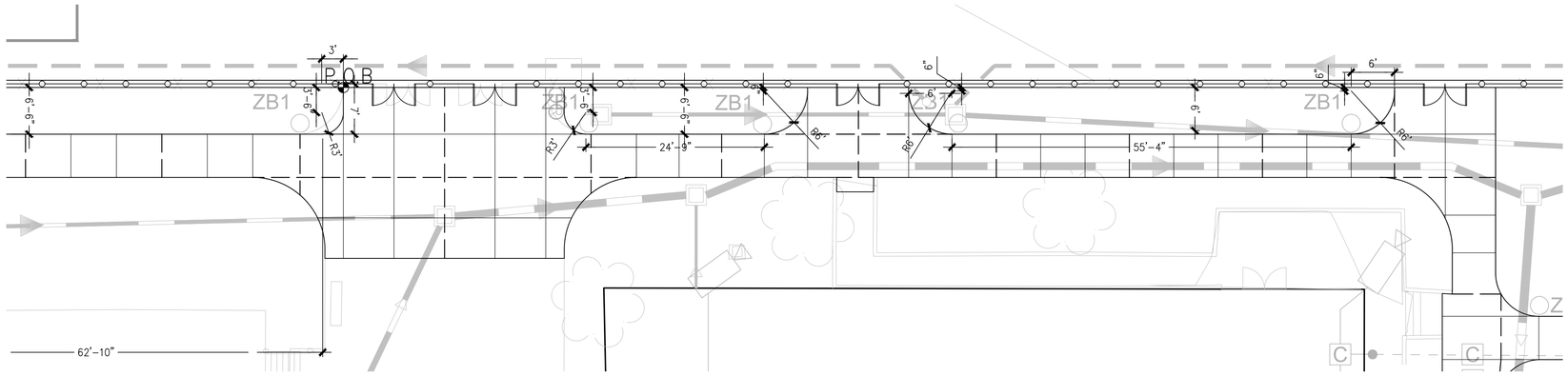
100% CDS

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE: 1"=20'-0"
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: L1.23A

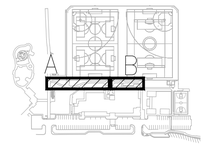


ENLARGEMENT A



ENLARGEMENT B

KEY MAP



0' 5' 10' 20'

0" 1/2" 1" 2"

NO.	REVISION	BY	DATE

DESIGNED MR / SW
DRAWN SW / MM
CHECKED MR
APPROVED

DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
DIMENSION PLAN - PHASE 1 ENLARGEMENTS

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING - URBAN DESIGN
T 925.756.0170 www.gatesla.com

NOT FOR CONSTRUCTION

REGISTERED LANDSCAPE ARCHITECT CHRISTOPHER GATES No. 5020 Signature 6/30/2024 Renewal Date 12/31/2025 LA STATE OF CALIFORNIA

100% CDS

CITY OF SAN RAFAEL

DEPARTMENT OF PUBLIC WORKS

SCALE: 1"=10'-0"
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: L1.24A

L.O.W.

L.O.W.

MATCHLINE – SEE SHEET L1.22A

PHASE 1
SEE L1.20A

SHORELINE BAND JURISDICTION LINE

AC PATH

L.O.W.

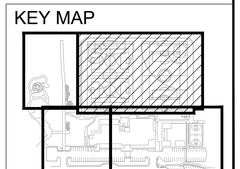
AC PATH

MATCHLINE – SEE SHEET L1.22A

MATCHLINE – SEE SHEET L1.21B

NOTE:
1. NO WORK EXCEPT PLANTING IN THIS AREA FOR PHASE 2.

KEY MAP



0' 10' 20' 40'
0" 1/2" 1" 2"

NO.	REVISION	BY	DATE

DESIGNED MR / SW
DRAWN SW / MM
CHECKED MR
APPROVED

DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
DIMENSION PLAN - PHASE 2 (FIELD)

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING - URBAN DESIGN
SAN RAFAEL, CA 94901 T 415.755.4170 WWW.GATESASSOC.COM

NOT FOR CONSTRUCTION

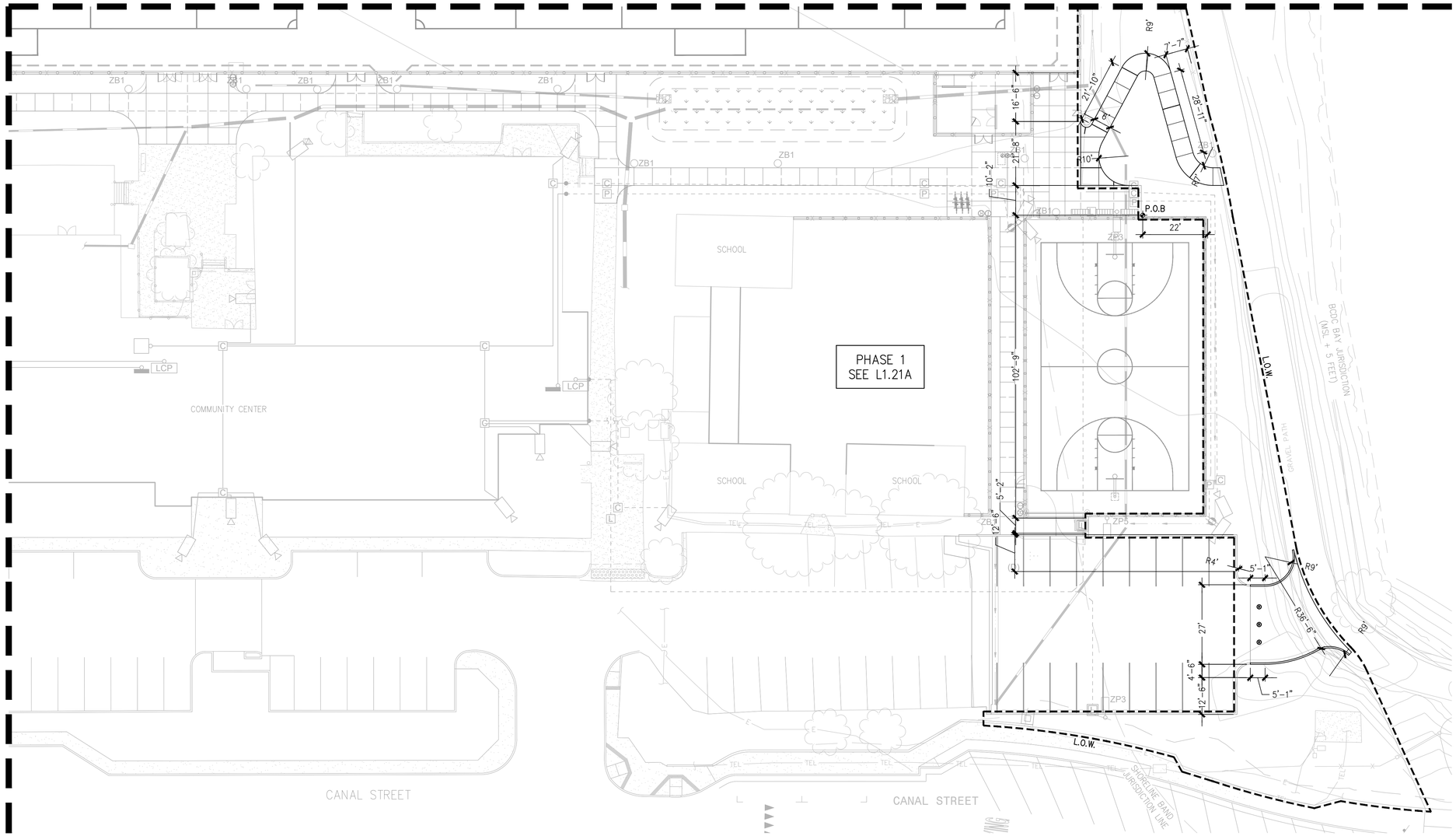
REGISTERED LANDSCAPE ARCHITECT
CHRIS GATES No. 2632
Signature 6/30/2024
Renewal Date 12/31/2025
LA
STATE OF CALIFORNIA

100% CDS
CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

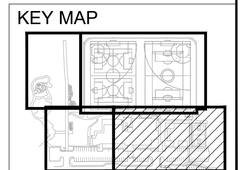
SCALE: 1"=20'-0"
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: L1.20B

MATCHLINE – SEE SHEET L1.20B

MATCHLINE – SEE SHEET L1.22A



KEY MAP



0' 10' 20' 40'

0 ½" 1" 2"

NO.	REVISION	BY	DATE
			DATE

DESIGNED MR / SW
DRAWN SW / MM
CHECKED MR
APPROVED DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
DIMENSION PLAN - PHASE 2

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING - URBAN DESIGN

NOT FOR CONSTRUCTION

REGISTERED LANDSCAPE ARCHITECT
CHRIS GATES
No. 3900
Signed 6/30/2024
Renewal Date 12/31/2025
LA
STATE OF CALIFORNIA

100% CDS

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE: 1"=20'-0"
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: L1.21B

MATCHLINE – SEE SHEET L2.12A

L.O.W.

L.O.W.

SHORELINE BAND JURISDICTION LINE

HS
21,468 sf

AC PATH

MATCHLINE – SEE SHEET L2.12A

MATCHLINE – SEE SHEET L2.11A

KEY MAP

0' 10' 20' 40'
0" ½" 1" 2"

NO.	REVISION	BY	DATE

DESIGNED MR / SW
DRAWN SW / MM
CHECKED MR
APPROVED

DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
PLANTING PLAN - PHASE 1 (FIELD)

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING · URBAN DESIGN

NOT FOR CONSTRUCTION

REGISTERED LANDSCAPE ARCHITECT
CAMERON CASE · No. 6000
Signature
6/20/2024
Renewal Date
12/31/2025
LA
STATE OF CALIFORNIA

100% CDS

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE: 1"=20'-0"
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: L2.10A

MATCHLINE – SEE SHEET L2.10A

MATCHLINE – SEE SHEET L2.12A

LL 15
LL 11
LL 22
AMA 2
CT 66
SP 60
JP 114
LL 12
LFM 1
LL 27
JP 52

MULCH
MULCH
MULCH

SCHOOL
SCHOOL
SCHOOL

COMMUNITY CENTER

LCP
LCP

L.O.W.
L.O.W.
L.O.W.

BCDC BAY JURISDICTION (MSL + 5 FEET)

SHORELINE BAND JURISDICTION LINE

GRAVEL PATH

CANAL STREET
CANAL STREET

KEY MAP

0' 10' 20' 40'
0" ½" 1" 2"

DESIGNED	MR / SW	NO.	REVISION	BY	DATE
DRAWN	SW / MM				
CHECKED	MR				
APPROVED					DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
PLANTING PLAN - PHASE 1

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

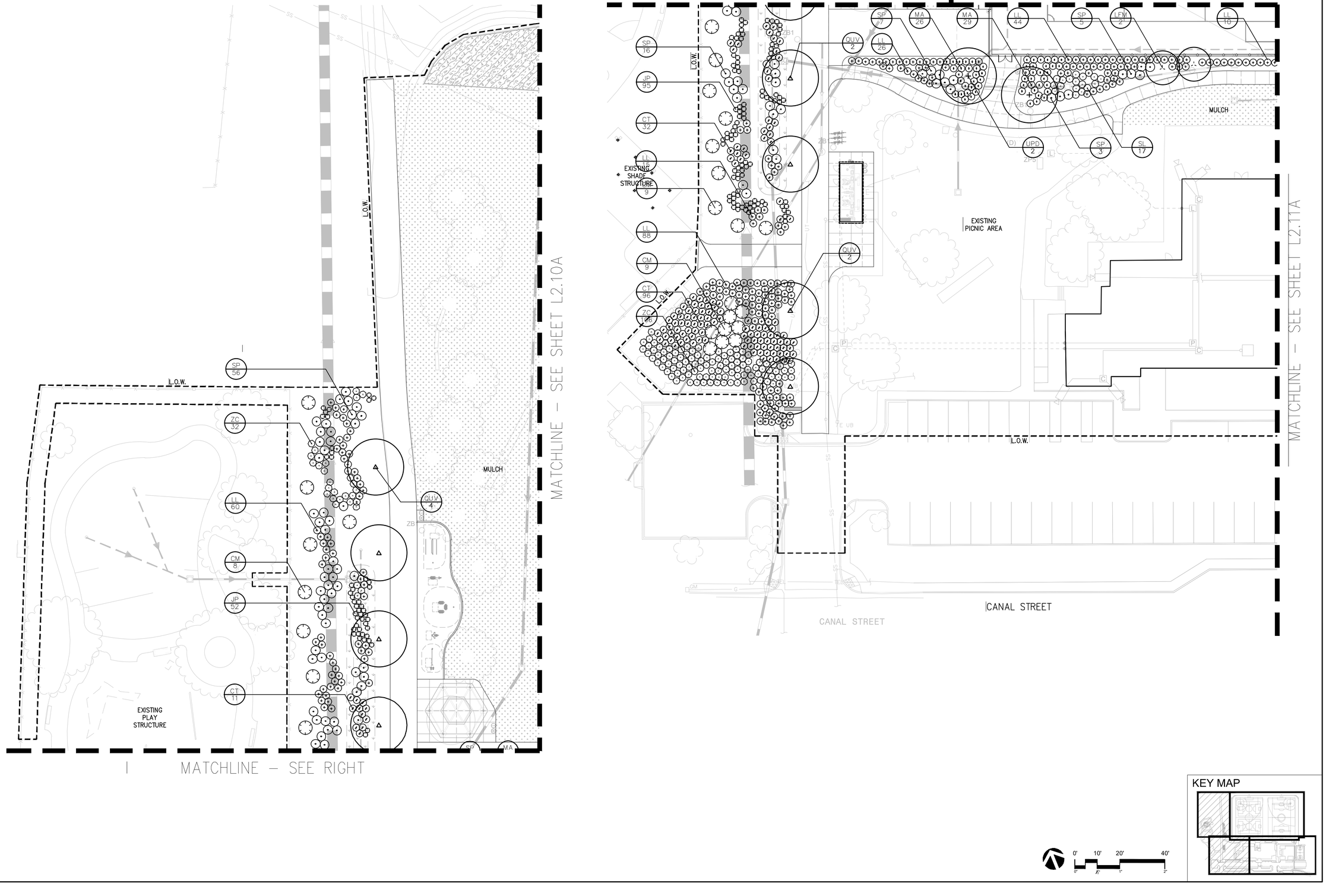
GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING - URBAN DESIGN

NOT FOR CONSTRUCTION

REGISTERED LANDSCAPE ARCHITECT
CASEY GATES
No. 6000
6/30/2024
12/31/2025
L.A.
STATE OF CALIFORNIA

100% CDS
CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE: 1"=20'-0"
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: L2.11A



KEY MAP

0' 10' 20' 40'

0" 1/2" 1" 2"

NO.	REVISION	BY	DATE

DESIGNED MR / SW
DRAWN SW / MM
CHECKED MR
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
PLANTING PLAN - PHASE 1

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

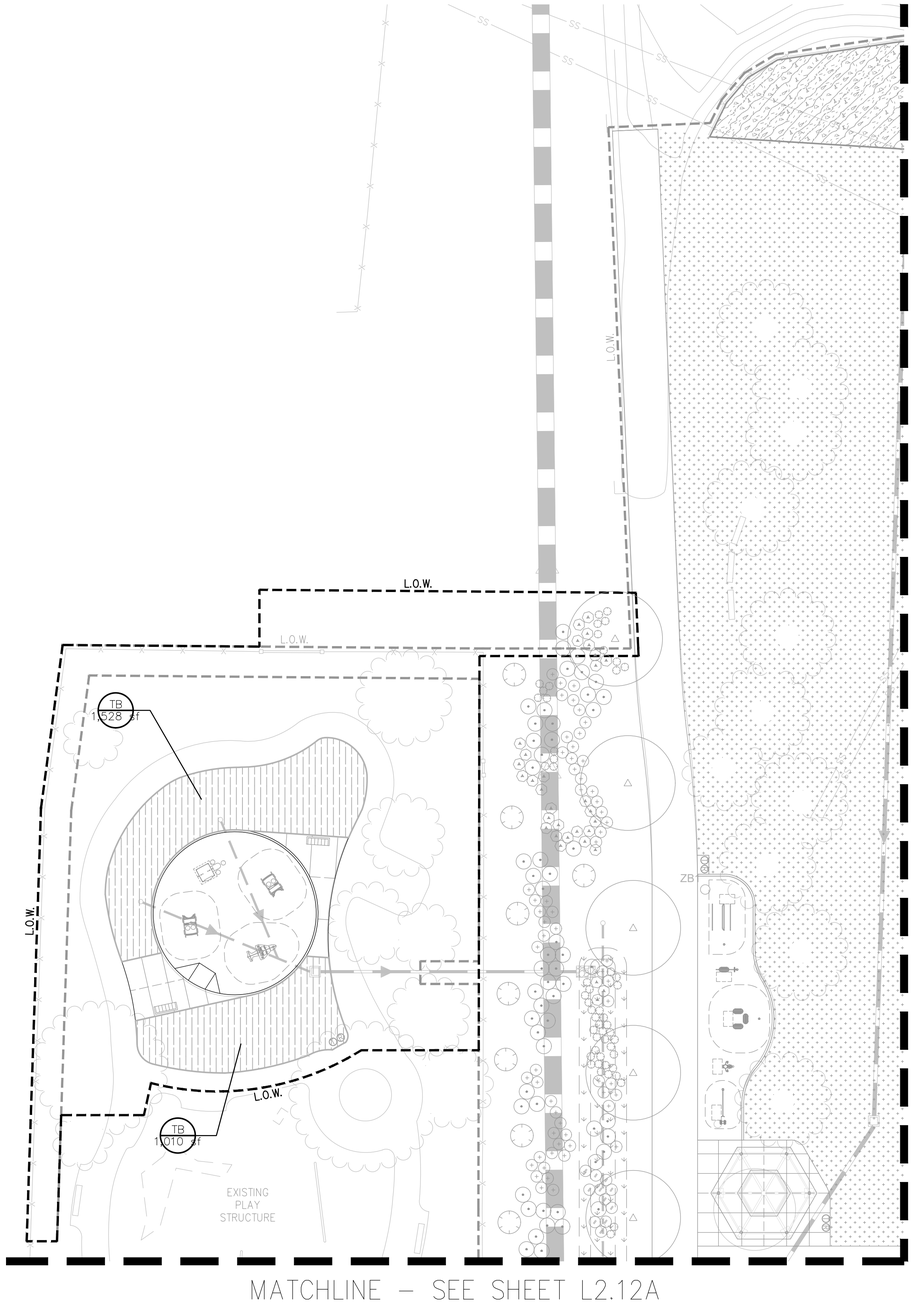
GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING URBAN DESIGN

NOT FOR CONSTRUCTION

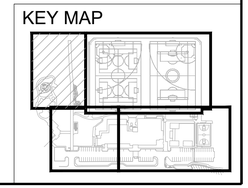
REGISTERED LANDSCAPE ARCHITECT · CHRIS GATES · No. 5020 · STATE OF CALIFORNIA
Signature
6/30/2024
Renewal Date
12/31/2025
LA

100% CDS
CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE: 1"=20'-0"
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: L2.12A



KEY MAP



0' 10' 20' 40'
0" 1/2" 1" 2"

NO.	REVISION	BY	DATE

DESIGNED MR / SW
DRAWN SW / MM
CHECKED MR
APPROVED

DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
PLANTING PLAN - PHASE 1 ADD ALT

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING - URBAN DESIGN
SAN RAFAEL, CA 94901 T 707.756.2170 www.gatesassociates.com

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REGISTERED LANDSCAPE ARCHITECT
CHRISTY CHASE No. 6062
Expiration
6/30/2024
Renewal Date
12/21/2023
by
LA
STATE OF CALIFORNIA

100% CDS
CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE: 1"=20'-0"
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: L2.13A

L.O.W.

L.O.W.

MATCHLINE – SEE SHEET L2.12A

PHASE 1
SEE L2.10A

SHORELINE BAND JURISDICTION LINE

HS
9,439 SF

LL
19

SL
11

SL
7

LL
55

AC PATH

L.O.W.

MATCHLINE – SEE SHEET L2.12A

MATCHLINE – SEE SHEET L2.11B

KEY MAP

0' 10' 20' 40'

NO.	REVISION	BY	DATE

DESIGNED MR / SW
DRAWN SW / MM
CHECKED MR
APPROVED

DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
PLANTING PLAN - PHASE 2 (FIELD)

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING - URBAN DESIGN

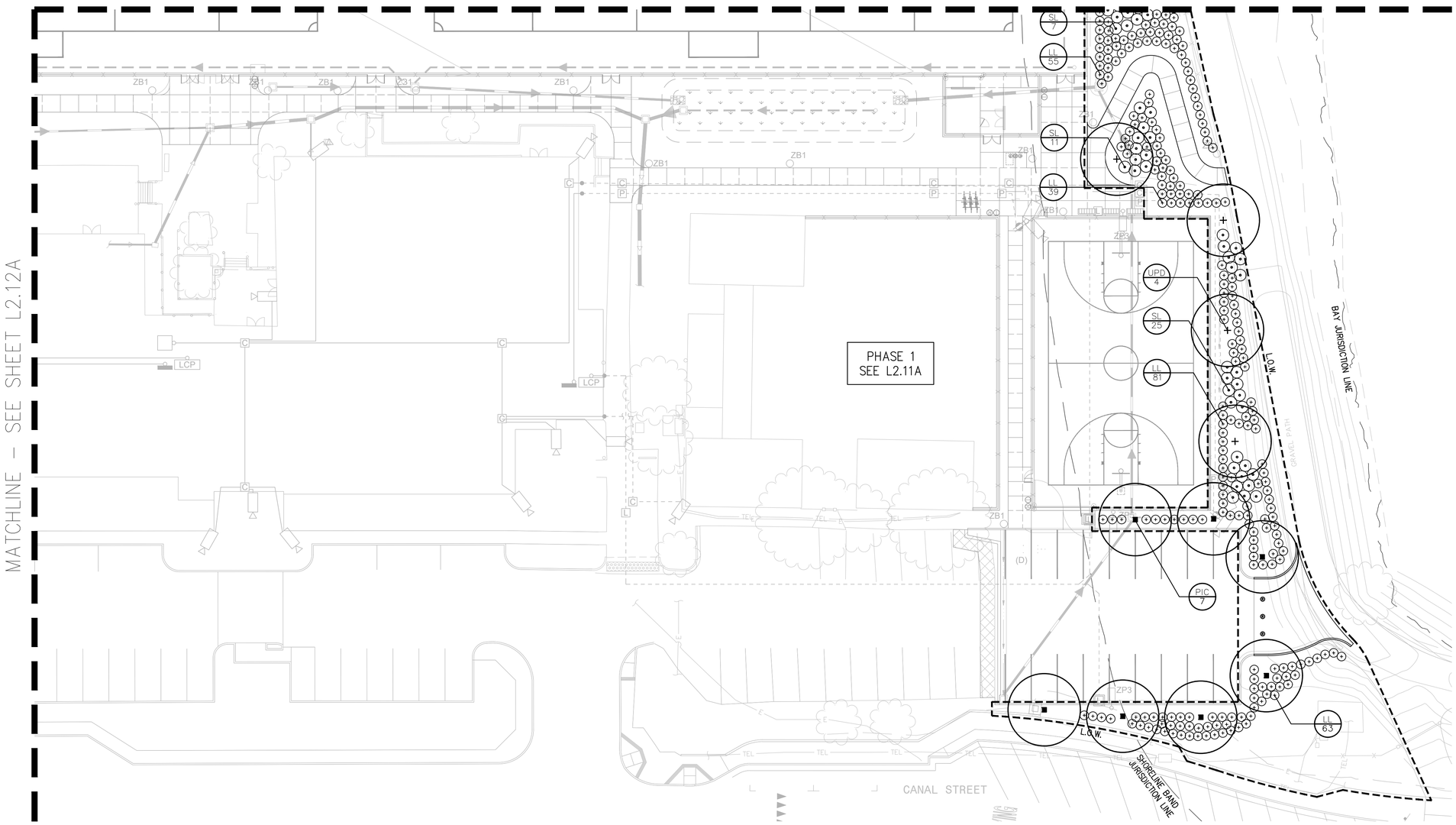
NOT FOR CONSTRUCTION

REGISTERED LANDSCAPE ARCHITECT
CASEY GATES No. 6062
6/30/2024
12/31/2023
LA
STATE OF CALIFORNIA

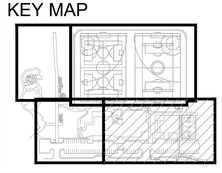
100% CDS

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE: 1"=20'-0"
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: L2.10B



KEY MAP



0' 10' 20' 40'

0" ½" 1" 2"

NO.	REVISION	BY	DATE

DESIGNED MR / SW
DRAWN SW / MM
CHECKED MR
APPROVED

DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
PLANTING PLAN - PHASE 2

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING - URBAN DESIGN

NOT FOR CONSTRUCTION

REGISTERED LANDSCAPE ARCHITECT
CASEY GATES No. 5022
Signature
6/30/2024
Renewal Date
12/31/2025
Date
LA
STATE OF CALIFORNIA

100% CDS

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE: 1"=20'-0"
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: L2.11B

IRRIGATION NOTES

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. DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, 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 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.

2. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, STANDARDS, AND REGULATIONS. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE NATIONAL ELECTRIC CODE; THE UNIFORM PLUMBING CODE, PUBLISHED BY THE WESTERN PLUMBING OFFICIALS ASSOCIATION; AND OTHER STATE OR LOCAL LAWS OR REGULATIONS. NOTHING IN THESE DRAWINGS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES OR REGULATIONS. THE CONTRACTOR SHALL FURNISH WITHOUT ANY EXTRA CHARGE, ANY ADDITIONAL MATERIAL AND LABOR WHEN REQUIRED BY THE COMPLIANCE WITH THESE CODES AND REGULATIONS.

3. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF IRRIGATION SYSTEM WITH LAYOUT AND INSTALLATION OF THE PLANT MATERIALS TO INSURE THAT THERE WILL BE COMPLETE AND UNIFORM IRRIGATION COVERAGE OF PLANTING IN ACCORDANCE WITH THESE DRAWINGS, AND CONTRACT DOCUMENTS. THE IRRIGATION LAYOUT SHALL BE CHECKED BY THE CONTRACTOR AND OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO CONSTRUCTION TO DETERMINE IF ANY CHANGES, DELETIONS, OR ADDITIONS ARE REQUIRED. IRRIGATION SYSTEM SHALL BE INSTALLED AND TESTED PRIOR TO INSTALLATION OF PLANT MATERIAL.

4. THE INTENT OF THIS IRRIGATION SYSTEM IS TO PROVIDE THE MINIMUM AMOUNT OF WATER REQUIRED TO SUSTAIN GOOD PLANT HEALTH.

5. IT IS THE RESPONSIBILITY OF THE MAINTENANCE CONTRACTOR AND/OR OWNER TO PROGRAM THE IRRIGATION CONTROLLER(S) TO PROVIDE THE MINIMUM AMOUNT OF WATER NEEDED TO SUSTAIN GOOD PLANT HEALTH. THIS INCLUDES MAKING ADJUSTMENTS TO THE PROGRAM FOR SEASONAL WEATHER CHANGES, PLANT MATERIAL, WATER REQUIREMENTS, MOUNDS, SLOPES, SUN, SHADE AND WIND EXPOSURE.

6. IT IS THE RESPONSIBILITY OF A LICENSED ELECTRICAL CONTRACTOR TO PROVIDE 120 VOLT A.C. (2.5 AMP DEMAND PER CONTROLLER) ELECTRICAL SERVICE TO THE CONTROLLER LOCATION(S). IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO COORDINATE THE ELECTRICAL SERVICE STUB-OUT TO THE CONTROLLER(S). PROVIDE PROPER GROUNDING PER CONTROLLER MANUFACTURER'S INSTRUCTIONS AND IN ACCORDANCE WITH LOCAL CODES.

7. PROVIDE EACH CONTROLLER WITH ITS OWN GROUND ROD. SEPARATE THE GROUND RODS BY A MINIMUM OF EIGHT FEET. THE GROUND ROD SHALL BE AN EIGHT FOOT LONG BY 5/8" DIAMETER U.L. APPROVED COPPER CLAD ROD. INSTALL NO MORE THAN 6" OF THE GROUND ROD ABOVE FINISH GRADE. CONNECT #6 GAUGE WIRE WITH A U.L. APPROVED GROUND ROD CLAMP TO ROD AND BACK TO GROUND SCREW AT BASE OF CONTROLLER WITH APPROPRIATE CONNECTOR. MAKE THIS WIRE AS SHORT AS POSSIBLE, AVOIDING KINKS OR BENDING.

8. SCHEDULE A MEETING WHICH INCLUDES REPRESENTATIVES OF THE IRRIGATION CONTROLLER MANUFACTURER, THE MAINTENANCE CONTRACTOR, THE OWNER AND THE IRRIGATION CONTRACTOR AT THE SITE FOR INSTRUCTION ON THE PROPER PROGRAMMING AND OPERATION OF THE IRRIGATION CONTROLLER.

9. INSTALL 3" DETECTABLE TAPE ABOVE ALL PRESSURIZED MAIN LINES AS DETAILED. USE CHRISTY MODEL #TA-DT-3-BIRR FOR POTABLE IRRIGATION SYSTEMS IRRIGATION WATER SYSTEMS.

10. PROVIDE EACH IRRIGATION CONTROLLER WITH ITS OWN INDEPENDENT LOW VOLTAGE COMMON GROUND WIRE.

11. IRRIGATION CONTROL WIRES: SOLID COPPER WITH U.L. APPROVAL FOR DIRECT BURIAL IN GROUND. CONTROL WIRE SERVICING REMOTE CONTROL VALVES: SIZE #14-1 WIRE WITH A UNIQUE COLOR INSULATING JACKET FOR EACH CONTROLLER. COMMON GROUND WIRE: SIZE #12-1 WIRE WITH A WHITE I INSULATING JACKET AND A STRIPE OF COLOR WHICH MATCH'S THE CONTROL WIRE COLOR CHOICE FOR SPECIFIC CONTROLLER. SPARE WIRE: #14-1 WIRE WITH BLACK INSULATION JACKET. SPLICES SHALL BE MADE WITH 3M-DBR/Y-6 SEAL PACKS OR APPROVED EQUAL.

12. INSTALL TWO SPARE CONTROL WIRES ALONG THE ENTIRE WIRE ROUTING FOR EACH CONTROLLER. LOOP 36" EXCESS WIRE INTO EACH SINGLE VALVE BOX AND INTO ONE VALVE BOX IN EACH GROUP OF VALVES.

13. INSTALL (GREEN) PLASTIC VALVE BOXES WITH BOLT DOWN, NON HINGED COVER MARKED "IRRIGATION CONTROL VALVE". BOX BODY SHALL HAVE KNOCK OUTS. ACCEPTABLE VALVE BOX 0" ROUND CONCRETE BOX BY CHRISTY, MODEL NO. FO8.

14. INSTALL REMOTE CONTROL VALVE BOXES 12" FROM WALK, CURB, BUILDING OR LANDSCAPE FEATURE. AT MULTIPLE VALVE BOX GROUPS, INSTALL EACH BOX AN EQUAL DISTANCE FROM THE WALK, CURB, BUILDING OR LANDSCAPE FEATURE AND PROVIDE 12" BETWEEN BOX TOPS. ALIGN THE SHORT SIDE OF RECTANGULAR VALVE BOXES PARALLEL TO WALK, CURB, BUILDING OR LANDSCAPE FEATURE.

15. VALVE LOCATIONS SHOWN ARE DIAGRAMMATIC. INSTALL IN GROUND COVER/SHRUB AREAS (AVOID LAWN AREAS WHERE POSSIBLE).

16. THE CONTRACTOR SHALL LABEL CONTROL LINE WIRE AT EACH REMOTE CONTROL VALVE WITH A 2 1/4" X 2 3/4" POLYURETHANE I.D. TAG, INDICATING IDENTIFICATION NUMBER OF VALVE (CONTROLLER AND STATION NUMBER). ATTACH LABEL TO CONTROL WIRE. THE CONTRACTOR SHALL PERMANENTLY STAMP ALL VALVE BOX LIDS WITH APPROPRIATE IDENTIFICATION AS NOTED IN CONSTRUCTION DETAILS.

17. FLUSH AND ADJUST IRRIGATION OUTLETS AND NOZZLES FOR OPTIMUM PERFORMANCE AND TO PREVENT OVER SPRAY ONTO WALKS, ROADWAYS, AND/OR BUILDINGS. SELECT THE BEST DEGREE OF THE ARC AND RADIUS TO FIT THE EXISTING SITE CONDITIONS AND THROTTLE THE FLOW CONTROL AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH CONTROL ZONE.

18. SET SPRINKLER HEADS PERPENDICULAR TO FINISH GRADE.

19. LOCATE BUBBLERS ON UPHILL SIDE OF PLANT OR TREE.

20. INSTALL A HUNTER HCV SERIES, KBI CV SERIES, OR APPROVED EQUAL SPRING LOADED CHECK VALVE IN SPRINKLER RISER ASSEMBLIES WHERE LOW OUTLET DRAINAGE WILL CAUSE EROSION AND/OR EXCESS WATER.

21. WHERE IT IS NECESSARY TO EXCAVATE ADJACENT TO EXISTING TREES, USE CAUTION TO AVOID INJURY TO TREES AND TREE ROOTS. EXCAVATE BY HAND IN AREAS WHERE TWO (2) INCH AND LARGER ROOTS OCCUR. BACK FILL TRENCHES ADJACENT TO TREE WITHIN TWENTY-FOUR (24) HOURS. WHERE THIS IS NOT POSSIBLE, SHADE THE SIDE OF THE TRENCH ADJACENT TO THE TREE WITH WET BURLAP OR CANVAS.

22. NOTIFY LOCAL JURISDICTIONS FOR INSPECTION AND TESTING OF INSTALLED BACKFLOW PREVENTION DEVICE.

23. THE IRRIGATION SYSTEM DESIGN IS BASED ON THE MINIMUM OPERATING PRESSURE SHOWN ON THE IRRIGATION DRAWINGS. 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 AUTHORIZED REPRESENTATIVE.

24. IRRIGATION DEMAND: REFER TO PLANS.

25. THE EXISTING MAIN LINE SHOWN ON THE DRAWINGS IS DIAGRAMMATIC. VERIFY AND LOCATE EXISTING MAIN LINE IN FIELD. REPORT TO ARCHITECT IN WRITING ANY DEVIATION OF EXISTING MAIN LINE LOCATION FROM THAT SHOWN ON THE DRAWINGS.

26. AT POINT OF CONNECTION AT EXISTING MAIN LINE FOR NEW REMOTE CONTROL VALVES OR QUICK COUPLING VALVES, INSTALL A SERVICE SADDLE WITH REQUIRED TAPPED OUTLET SIZE. ROMAC 202S, OR APPROVED EQUAL.

27. AT POINTS OF CONNECTION BETWEEN NEW MAIN LINE AND EXISTING CAPPED GASKETED MAIN LINE USE THE FOLLOWING PROCEDURE:

A. REMOVE CAP AT END OF EXISTING MAIN LINE. REAM FIELD CUT END TO FULL PIPE DIAMETER WITH ROUGH EDGES AND BURRS REMOVED.
B. ASSEMBLE NEW MAIN LINE TO EXISTING MAIN LINE WITH A DUCTILE IRON GASKETED REPAIR COUPLING, SIZE AS REQUIRED (HARCO, OR APPROVED EQUAL). THRUST BLOCK AT CHANGE OF PIPE DIRECTION IN ACCORDANCE WITH PIPE MANUFACTURER RECOMMENDATIONS.

28. AT POINTS OF CONNECTION BETWEEN EXISTING SOLVENT WELD MAIN LINE AND A NEW MAIN LINE BRANCH, USE THE FOLLOWING PROCEDURE:

C. REMOVE A PORTION OF EXISTING MAINLINE.
D. FABRICATE A TEE WITH TWO 12" SECTIONS OF PIPE ON EACH SIDE OF A SCH 80 TEE. USE A SCH 80 COUPLING ON ONE SIDE OF PIPE TO CONNECT NEW SECTION TO OLD. USE A ROMAC, HYMAX OR SMITH BLAIR REPAIR COUPLING WITHOUT A CENTER STOP ON OTHER SIDE OF TEE TO CONNECT EXISTING MAINLINE. NO SLIP FIXES ARE ALLOWED.

29. PIPE SIZING SHOWN ON THE DRAWINGS IS TYPICAL. AS CHANGES IN LAYOUT OCCUR DURING STAKING AND CONSTRUCTION THE SIZE MAY NEED TO BE ADJUSTED ACCORDINGLY.

30. PIPE THREAD SEALANT COMPOUND SHALL BE RECTOR SEAL #5.

31. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR MINOR CHANGES IN THE IRRIGATION LAYOUT DUE TO OBSTRUCTIONS NOT SHOWN ON THE IRRIGATION DRAWINGS SUCH AS LIGHTS, FIRE HYDRANTS, SIGNS, ELECTRICAL ENCLOSURES, ETC.

32. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR CHANGES IN THE IRRIGATION LAYOUT AND VALVE ZONING DUE TO VARIATIONS IN THE EXISTING SITE CONDITIONS SUCH AS EXPOSURE FROM BUILDINGS, TRELLISES, TREES, ETC., AS WELL AS SLOPE AND SOIL CONDITIONS. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT AND IRRIGATION CONSULTANT OF THE PROPOSED CHANGES PRIOR TO INSTALLATION FOR APPROVAL.

33. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR ADJUSTING THE IRRIGATION SYSTEM DESIGN IF THE PLANTING DESIGN CHANGES FROM THE ORIGINAL PLAN AND NEEDS TO ADAPT TO THE NEW PLANTING DESIGN. THE LANDSCAPE CONTRACTOR NEEDS TO NOTIFY THE LANDSCAPE ARCHITECT AND IRRIGATION CONSULTANT OF PROPOSED CHANGES PRIOR TO INSTALLATION FOR APPROVAL.

34. WHEN WORK OF THIS SECTION HAS BEEN COMPLETED AND SUCH OTHER TIMES AS MAY BE DIRECTED, REMOVE ALL TRASH, DEBRIS, SURPLUS MATERIALS AND EQUIPMENT FROM SITE.

35. CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLEMENTAL HAND WATERING OF ALL PLANT MATERIAL WITHIN DRIPLINE AREAS UNTIL THE PLANTS ARE SUFFICIENTLY ESTABLISHED.

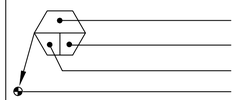
36. VERIFY LOCATIONS OF ALL IRRIGATION COMPONENTS INSTALLED WITHIN A VALVE BOX WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. DO NOT INSTALL UNTIL LANDSCAPE ARCHITECT

37. EXISTING IRRIGATION SHOWN IS FOR REFERENCE ONLY TAKEN FROM IRRIGATION AS-BUILD PLANS FOR THE SITE. THE EXACT ROUTING OF MAIN LINE, WIRES. REMOTE CONTROL VALVES AND AREAS VALVES SHOULD BE INVESTIGATE PRIOR TO CONSTRUCTION. CONTRACTOR WILL NEED TO FIELD VERIFY THE LOCATION OF ALL EXISTING IRRIGATION EQUIPMENT AND IN WORKING CONDITION BEFORE ANY WORK IS STARTED AND NOTIFY THE LANDSCAPE ARCHITECT IF THERE IS ANY PROBLEMS.

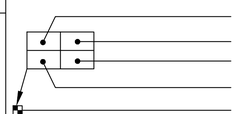
38. CONTRACTOR IS RESPONSIBLE TO KEEP ALL EXISTING PLANTING AREAS (TO REMAIN) WITH WATER AT ALL TIMES DURING CONSTRUCTION. THIS SHALL INCLUDE PROVIDING TEMPORARY WATER SOURCE AND TEMPORARY IRRIGATION CONTROLLER WITH POWER IF NEEDED TO OPERATE THE SYSTEM DURING CONSTRUCTION.

IRRIGATION LEGEND

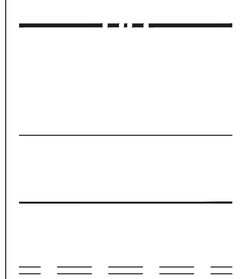
SYMBOL	MODEL NUMBER	DESCRIPTION	NOZZLE GPM	OPERATING PSI	OPERATING RADIUS (FEET)
○ ⊖ ⊕	1806-SAM-PRS-15F,H,Q	RAINBIRD POP-UP SPRAY SPRINKLER (TURF)	2.3,1.2,0.6	30	12-15
● ◒ ◔	1806-SAM-PRS-12F,H,Q	RAINBIRD POP-UP SPRAY SPRINKLER (TURF)	1.5,0.75,.37	30	10-12
◭	1812-SAM-PR40-R-VAN24-360	RAINBIRD POP-UP SPRAY SPRINKLER (SHRUB)	3.5	45	17'-24'
▽	1812-SAM-PR40-R-VAN-24 (90°-180°)	RAINBIRD POP-UP SPRAY SPRINKLER (SHRUB)	1.8	45	17'-24'
▽	1812-SAM-PR40-R-VAN-24 (90°-180°)	RAINBIRD POP-UP SPRAY SPRINKLER (SHRUB)	1.8	45	17'-24'
■	1401	RAINBIRD BUBBLER, MIN. 2 PER TREE. REFER TO DETAIL.	0.25	30	TRICKLE
●▶	T-YD-500-34	TORO DRIPLINE AIR RELIEF VALVE (NOT SHOWN - REFER TO DETAILS)			
●+	WLT-0500-T	NDS SCH 40 BALL VALVE OR APPROVED EQUAL			
◙	570-DRIP-IND	TORO POP-UP DRIPLINE INDICATOR WITH SIDE INLET.			
◕	P-220-26 SERIES	TORO REMOTE CONTROL VALVE			
◪	DZK-700-MF	TORO DRIP ZONE KIT WITH IRRITROL 700 SERIES REMOTE CONTROL VALVE, PRESSURE REGULATOR (40 PSI) AND A 1" FILTER			
◂▸	44-LRC	RAIN BIRD 1" TWO-PIECE QUICK COUPLING VALVE (YELLOW LOCKING RUBBER COVER). INCLUDE 2 - # 44-K-1 VALVE KEYS & #SH-1 HOSE SWIVELS.			
◇	5-LRC	RAIN BIRD 1" ONE-PIECE QUICK COUPLING VALVE (YELLOW LOCKING RUBBER COVER) FOR SYNTHETIC TURF FIELD MAINTENANCE (CAN ACCOMMODATE FLOW RANGE UP TO 40 GPM). INCLUDE 4 - # 55-K-1 VALVE KEYS & #SH-2 HOSE SWIVELS.			
⋈	T113-K SERIES	NIBCO BRASS GATE VALVE (LINE SIZE)-3" AND SMALLER			
⋈	EXISTING / VIT SBBC-30SS/PBB-30	EXISTING REDUCED PRESSURE BACKFLOW ASSEMBLY TO REMAIN. FOR BACKFLOW LOCATED AT CANAL STREET REMOVE EXISTING WOOD ENCLOSURE AND INSTALL NEW VIT STRONGBOX STAINLESS STEEL SMOOTH TOUCH ENCLOSURE AND FREEZE BLANKET.			
(FS)	FSI-T10-001	CST 1" PLASTIC FLOW SENSOR			
(MV)	3300-1.5"	SUPERIOR MASTER VALVE-1.5" (NORMALLY OPEN)			
(A)	EXISTING	RAIN MASTER 48 STATION DX2 CONTROLLER FOR PARKING LOT IRRIGATION.			
(B)	EGP8-SPED*(4)EGP8-OPB EGP-ICENTRAL	RAIN MASTER EAGLE PLUS 40 STATION CONTROLLER INSIDE STAINLESS STEEL PEDESTAL. INCLUDE WIRES LEES RAIN SENSOR AND iCentral CELLULAR COMMUNICATION CARD KIT WITH 60 MONTHS iCentral ET			
(C)	EXISTING	RAIN MASTER 12 STATION CONTROLLER FOR SPINNAKER POINT IRRIGATION TO REMAIN IN SERVICE.			



CONTROLLER AND STATION NUMBER
FLOW (GPM)
REMOTE CONTROL VALVE SIZE (IN INCHES)
ASSOCIATED REMOTE CONTROL VALVE



CONTROLLER AND STATION NUMBER
AREA (SQ. FT.)
FLOW (GPM)
REMOTE CONTROL VALVE SIZE (IN INCHES)
ASSOCIATED REMOTE CONTROL VALVE

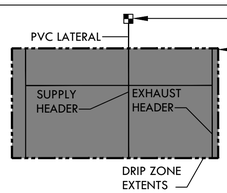


MAIN LINE: 2.5" AND 3": CLASS 315 PVC PLASTIC PIPE WITH SCHEDULE 80 PVC SOLVENT WELD FITTINGS. 2 1/2" AND SMALLER: 1120-SCHEDULE 40 PVC PLASTIC PIPE WITH SCHEDULE 40 PVC SOLVENT WELD FITTINGS. 24" COVER.

LATERAL LINE: 3/4" AND LARGER: 1120-SCHEDULE 40 PVC PLASTIC PIPE WITH SCHEDULE 40 PVC SOLVENT WELD FITTINGS. 18" COVER.

DRIPLINE LATERAL LINE: 3/4" AND LARGER: 1120-SCHEDULE 40 PVC PLASTIC PIPE WITH SCHEDULE 40 PVC SOLVENT WELD FITTINGS. 18" COVER.

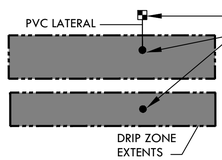
SLEEVING: SCHEDULE 40 PVC PLASTIC PIPE. COVER TO BE AS INDICATED IN SPECIFICATIONS OR AS INDICATED ABOVE FOR PIPE DEPTH OF COVER.



DRIPLINE REMOTE CONTROL VALVE

DRIP ZONE:

TORO DL2000 SERIES DRIPLINE WITH DL2000 INSERT FITTINGS, PART #RGP-212. TUBING TO BE INSTALLED 4" BELOW GRADE IN A 12" O.C. GRID ACCORDING TO DETAILS. SIZE EXHAUST HEADERS AS FOLLOWS: 1": 0-10 GPM, 1.25": 11-20 GPM. ALL EXHAUST HEADERS SHALL BE 1" SCH 40 PVC OR 1" SCH 40 FLEXIBLE PVC. USE SCH. 40 PVC SOLVENT WELD FITTINGS. EXTEND PVC HEADERS TO THE ENDS OF ALL DRIP ZONES TO BALANCE FLOW IF REQUIRED. SEE DETAILS FOR FURTHER INFORMATION.



DRIPLINE REMOTE CONTROL VALVE

APPROXIMATE CONNECTION POINT BETWEEN DRIPLINE TUBING AND PVC SUPPLY WHEN DRIP ZONE IS LESS THAN 3 GPM AND NO PVC SUPPLY/EXHAUST HEADERS ARE NEEDED. REFER TO DRIPLINE TUBING CONNECTION DETAIL FOR MORE INFORMATION.

NO.	REVISION	BY	DATE

DESIGNED JB
DRAWN DM / JB
CHECKED JB
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
IRRIGATION NOTES AND LEGEND

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING - URBAN DESIGN
SAN FRANCISCO, CALIFORNIA 94103-2806
T 415.788.5776 www.gates.com

NOT FOR CONSTRUCTION

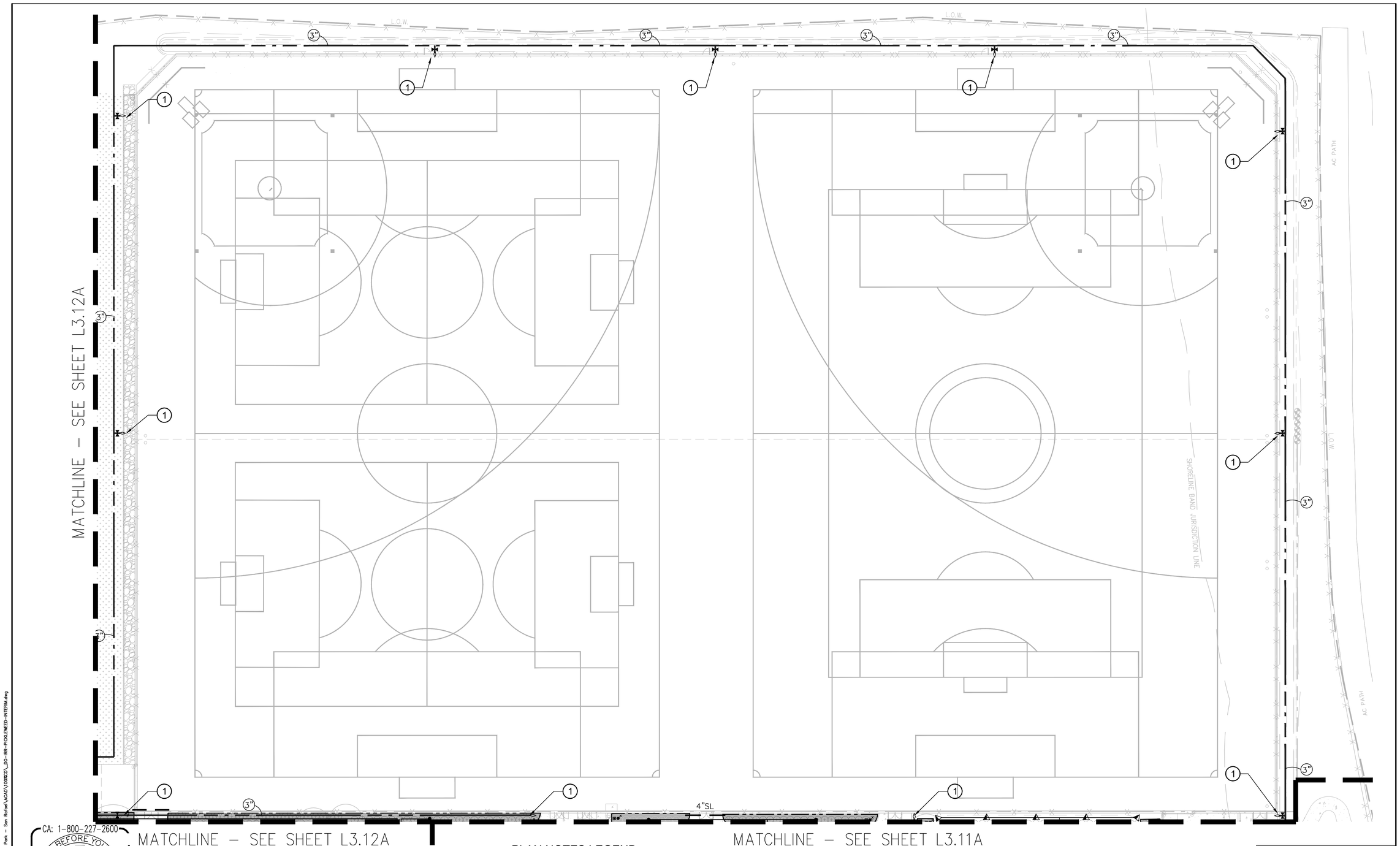
REGISTERED LANDSCAPE ARCHITECT
CHRISTY CHUE
No. 5302
5/30/2024
Renewal Date
12/21/2025
LA
STATE OF CALIFORNIA

100% CDS

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE:
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: L3.10

May 08, 2024 - 3:53pm - USER jbradshaw
\\Vmsarv\Company\Data\2022\22-301 Pickleweed Park - San Rafael\ACAD\100%CD_DO-IRR-PICKLEWEED Notes-Lg-Det.dwg



CA: 1-800-227-2600
CALL BEFORE YOU DIG
USA
UNDERGROUND SERVICE ALERT
CA: 1-800-227-2600
CALL TWO WORKING DAYS BEFORE YOU DIG

Irrigation Consultant:
Russell D. Mitchell Associates, Inc.
2760 Camino Diablo
Walnut Creek, CA 94597
tel 925.939.3985 ♦ fax 925.932.5671
www.rmairrigation.com

PLAN NOTES LEGEND

(1) QUICK COUPLER VALVE AND GATE VALVE FOR SYNTHETIC TURF MAINTENANCE.

KEY MAP

0' 10' 20' 40'
0 5' 1" 2"

NO.	REVISION	BY	DATE

DESIGNED JB
DRAWN DM / JB
CHECKED JB
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
IRRIGATION PLAN – PHASE 1 (FIELD)

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING – URBAN DESIGN
SAN FRANCISCO BRIDGE, WOODFORD, CALIFORNIA
T 925.756.8778 www.gatesassoc.com

NOT FOR CONSTRUCTION

REGISTERED LANDSCAPE ARCHITECT
CHRISTOPHER GATES No. 5656
Expiration 6/30/2024
Signed Date 12/21/2023
STATE OF CALIFORNIA

100% CDS

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE:
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: L3.10A

May 08, 2024 – 3:52pm – USER Bradshaw
\\vmserv\Company Data\V2022\22-301 Pickleweed Park – San Rafael\CAD\100%CD_DG-IRR-PICKLEWEED-INTERIM.dwg

MATCHLINE – SEE SHEET L3.12A

MATCHLINE – SEE SHEET L3.11B

L.O.W.

SHORELINE BAND JURISDICTION LINE

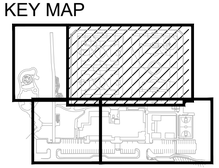
AC PATH

6"SL

A-26 | 1243
1 | 11

NOTE:
1. NO WORK EXCEPT IRRIGATION IN THIS AREA FOR PHASE 2.

KEY MAP



CA: 1-800-227-2600
CALL BEFORE YOU DIG
USA
UNDERGROUND SERVICE ALERT
CA: 1-800-227-2600
CALL TWO WORKING DAYS BEFORE YOU DIG

Irrigation Consultant:
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Walnut Creek, CA 94597
tel 925.939.3985 ♦ fax 925.932.5671
www.rmairrigation.com

0' 10' 20' 40'
0" ½" 1" 2"

NO.	REVISION	BY	DATE

DESIGNED JB
DRAWN DM / JB
CHECKED JB
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
IRRIGATION PLAN – PHASE 2

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING - URBAN DESIGN

NOT FOR CONSTRUCTION

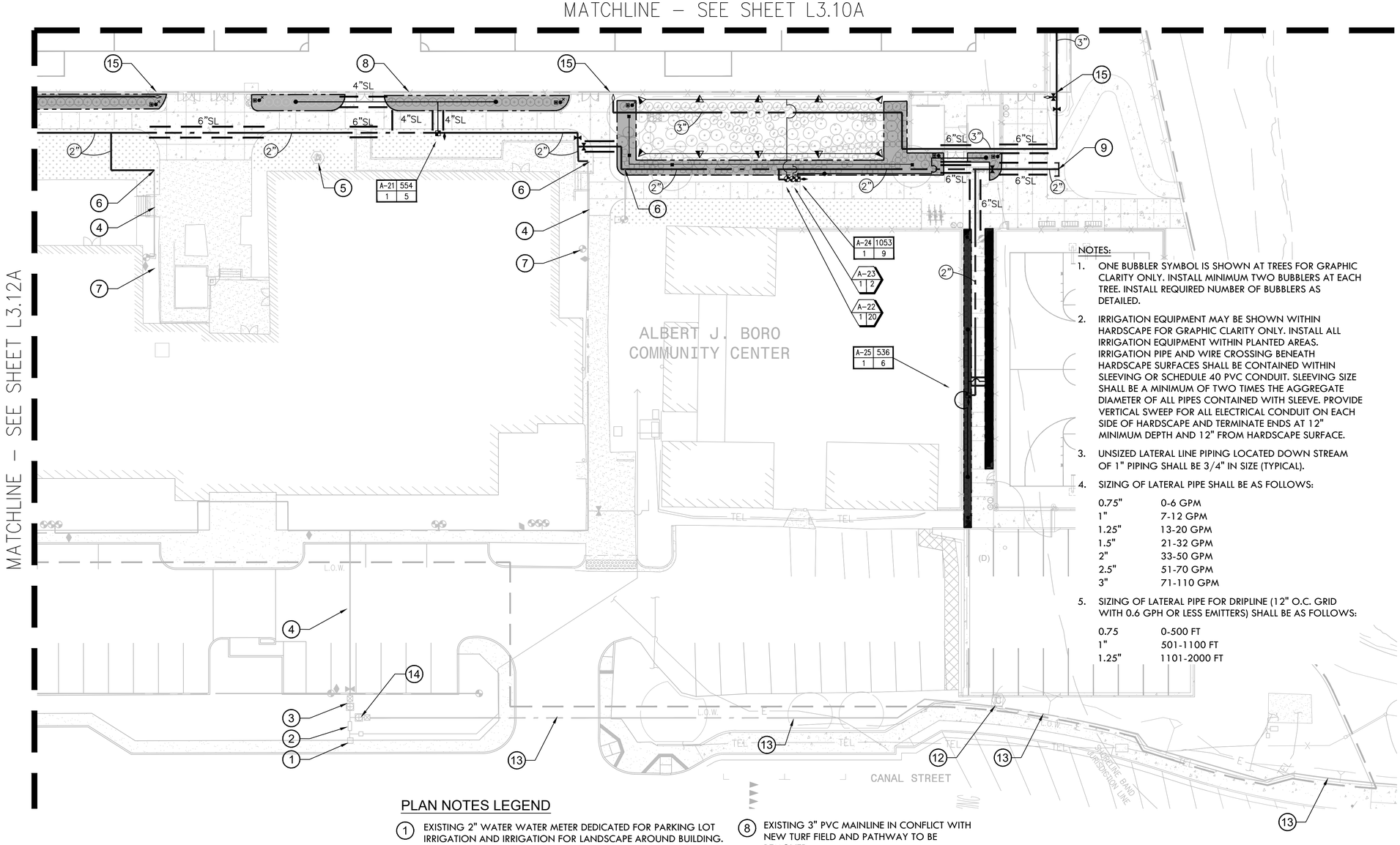
REGISTERED LANDSCAPE ARCHITECT
CASEY GATES • No. 6065
STATE OF CALIFORNIA
Signature
6/30/2024
Renewal Date
12/21/2023
Date
LA

100% CDS

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE: 1"=20'-0"
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: L3.10B

May 08, 2024 - 8:47pm - LUSER @mailstream
\\Vmware-v\Company\Jobs\2022\2201\Plotstream\Public\ 44-Sportfield\Work\L3\2201_IRR-PHOTOMETRIC-PLAN.dwg



NOTES:

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1.25"	13-20 GPM
1.5"	21-32 GPM
2"	33-50 GPM
2.5"	51-70 GPM
3"	71-110 GPM

5. SIZING OF LATERAL PIPE FOR DRIPLINE (12" O.C. GRID WITH 0.6 GPH OR LESS EMITTERS) SHALL BE AS FOLLOWS:

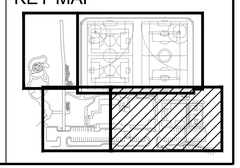
0.75	0-500 FT
1"	501-1100 FT
1.25"	1101-2000 FT

PLAN NOTES LEGEND

1. EXISTING 2" WATER WATER METER DEDICATED FOR PARKING LOT IRRIGATION AND IRRIGATION FOR LANDSCAPE AROUND BUILDING.
2. EXISTING BACKFLOW PREVENTOR.
3. EXISTING MASTER VALVE AND FLOW SENSOR WIRED TO CONTROLLER "A".
4. EXISTING 2" PVC MAINLINE TO REMAIN IN SERVICE.
5. IRRIGATION CONTROLLER "A" PEDESTAL MOUNT TO REMAIN IN SERVICE.
6. INTERCEPT MAINLINE FOR NEW PVC MAINLINE CONNECTION.
7. EXISTING REMOTE CONTROL VALVES TO REMAIN IN SERVICE. EXISTING IRRIGATION TO REMAIN SHALL BE ADJUSTED AS REQUIRED DUE TO NEW CONSTRUCTION.
8. EXISTING 3" PVC MAINLINE IN CONFLICT WITH NEW TURF FIELD AND PATHWAY TO BE REMOVED.
9. STUB-OUT AND CAP 2.5" PVC MAINLINE FOR FUTURE CONNECTION.
10. STUB-OUT AND CAP 3/4" PVC LATERAL LINE FOR FUTURE CONNECTION.
11. QUICK COUPLER VALVE AND GATE VALVE FOR SYNTHETIC TURF MAINTENANCE.
12. IRRIGATION CONTROLLER "C" FOR SPINNAKER PHASE IRRIGATION TO REMAIN IN SERVICE.
13. APPROXIMATE LOCATION OF EXISTING MAINLINE AND LOW VOLTAGE WIRES FOR SPINNAKER PHASE IRRIGATION TO REMAIN IN SERVICE.
14. EXISTING MASTER VALVE AND FLOW SENSOR WIRED TO CONTROLLER "C".
15. QUICK COUPLER VALVE AND GATE VALVE FOR SYNTHETIC TURF MAINTENANCE.

Irrigation Consultant:
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2760 Camino Diablo
Walnut Creek, CA 94597
tel 925.939.3985 ♦ fax 925.932.5671
www.rmairrigation.com

KEY MAP



0' 10' 20' 40'
0" ½" 1" 2"

CA: 1-800-227-2600
CALL BEFORE YOU DIG
USA
UNDERGROUND SERVICE ALERT
CA: 1-800-227-2600
CALL TWO WORKING DAYS BEFORE YOU DIG

May 08, 2024 - 3:52pm - USER Bradshaw
\\Vmsrv\Company\Data\2022\22-301 Pickleweed Park - San Rafael\CAD\100%CD_DG-IRR-PICKLEWEED-INTERIM.dwg

NO.	REVISION	BY	DATE

DESIGNED JB
DRAWN DM / JB
CHECKED JB
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS
DRAWING NAME
IRRIGATION PLAN – PHASE 1
SAN RAFAEL COUNTY OF MARIN CALIFORNIA

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING - URBAN DESIGN

NOT FOR CONSTRUCTION

REGISTERED LANDSCAPE ARCHITECT
CASEY GATES • No. 3009
STATE OF CALIFORNIA
Expires 8/30/2024
Signed Date 12/21/2023
LA

100% CDS

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE:
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: L3.11A

MATCHLINE – SEE SHEET L3.10B

MATCHLINE – SEE SHEET L3.12A

NOTES:

1. ONE BUBBLER SYMBOL IS SHOWN AT TREES FOR GRAPHIC CLARITY ONLY. INSTALL MINIMUM TWO BUBBLERS AT EACH TREE. INSTALL REQUIRED NUMBER OF BUBBLERS AS DETAILED.
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3. UNSIZED LATERAL LINE PIPING LOCATED DOWN STREAM OF 1" PIPING SHALL BE 3/4" IN SIZE (TYPICAL).
4. SIZING OF LATERAL PIPE SHALL BE AS FOLLOWS:

0.75"	0-6 GPM
1"	7-12 GPM
1.25"	13-20 GPM
1.5"	21-32 GPM
2"	33-50 GPM
2.5"	51-70 GPM
3"	71-110 GPM

5. SIZING OF LATERAL PIPE FOR DRIPLINE (12" O.C. GRID WITH 0.6 GPH OR LESS EMITTERS) SHALL BE AS FOLLOWS:

0.75	0-500 FT
1"	501-1100 FT
1.25"	1101-2000 FT

ALBERT J. BORO COMMUNITY CENTER

PHASE 1 SEE L3.11A

A-27 | 1 | 6

A-28 | 1767 | 1 | 14

A-29 | 1100 | 1 | 10

6"SL

2"

4"SL

GRAVEL PATH

LAWN

SHORELINE BAND JURISDICTION LINE

BAY JURISDICTION LINE

TEL

CANAL STREET

PLAN NOTES LEGEND

1. CONNECT TO 2.5" CAPPED PVC MAINLINE AND LOW VOLTAGE WIRES AT THIS LOCATION.
2. IRRIGATION CONTROLLER "C" FOR SPINNAKER PHASE IRRIGATION TO REMAIN IN SERVICE.

KEY MAP

0' 10' 20' 40'

0" 1/2" 1" 2"

CA: 1-800-227-2600 CALL BEFORE YOU DIG USA UNDERGROUND SERVICE ALERT CA: 1-800-227-2600 CALL TWO WORKING DAYS BEFORE YOU DIG

Irrigation Consultant:
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2760 Camino Diablo
Walnut Creek, CA 94597
tel 925.939.3985 ♦ fax 925.932.5671
www.rmairrigation.com

NO.	REVISION	BY	DATE

DESIGNED JB
DRAWN DM / JB
CHECKED JB
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
IRRIGATION PLAN – PHASE 2

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING - URBAN DESIGN
SAN FRANCISCO, OAKLAND, SACRAMENTO, LOS ANGELES
T 510.750.5170 www.gates.com

NOT FOR CONSTRUCTION

REGISTERED LANDSCAPE ARCHITECT CHRISTOPHER J. GATES No. 3240 STATE OF CALIFORNIA
Signature
6/30/2024
Date
12/21/2023
Print Name
LA

100% CDS

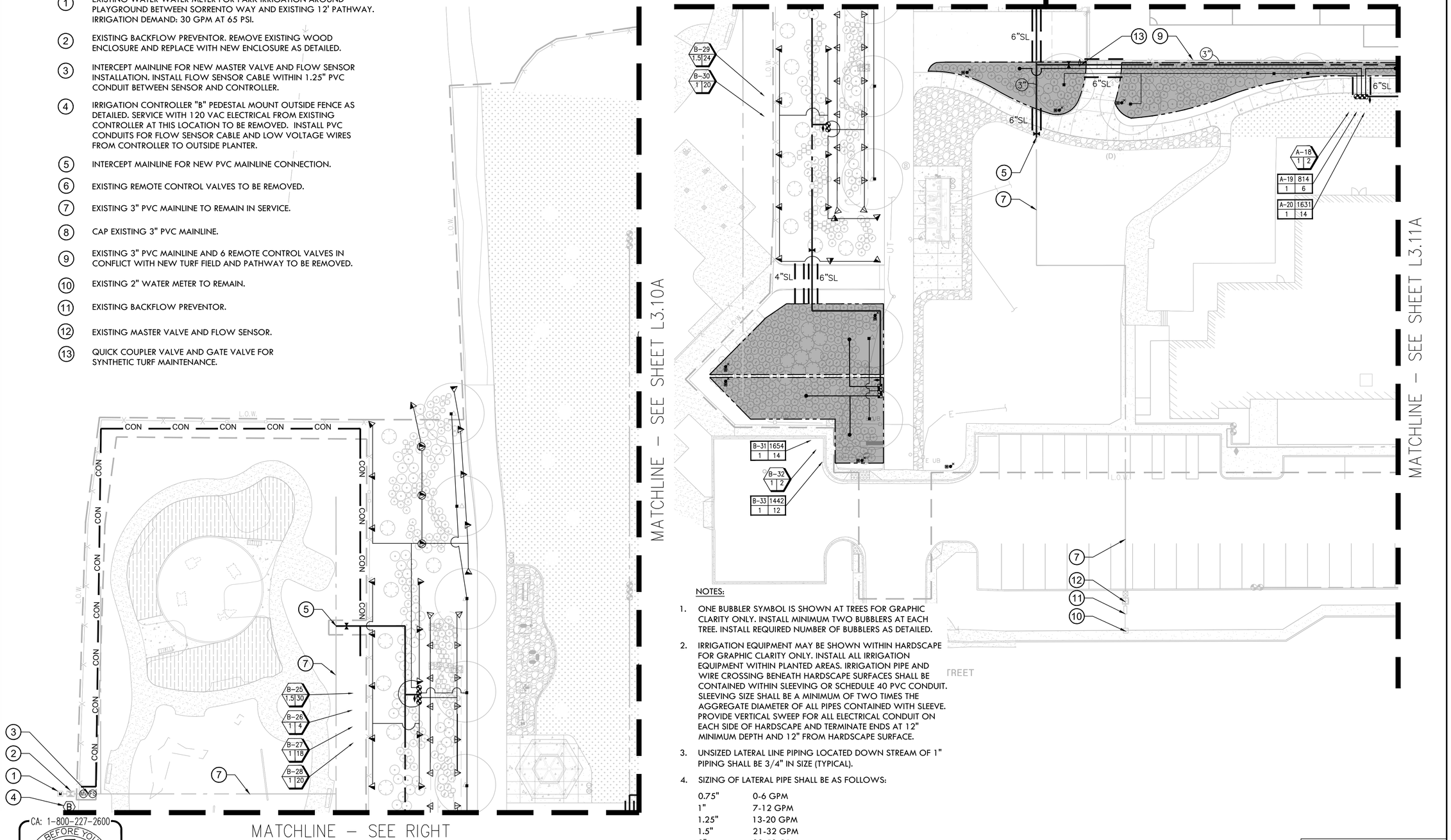
CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE: 1"=20'-0"
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: L3.11B

May 08, 2024 - 3:51pm - USER Bradshaw
\\rmserv\Company Data\2022\22-301 Pickleweed Park - San Rafael\ACAD\100%CD_DG-IRR-PICKLEWEED-FINAL.dwg

PLAN NOTES LEGEND

1. EXISTING WATER WATER METER FOR PARK IRRIGATION AROUND PLAYGROUND BETWEEN SORRENTO WAY AND EXISTING 12' PATHWAY. IRRIGATION DEMAND: 30 GPM AT 65 PSI.
2. EXISTING BACKFLOW PREVENTOR. REMOVE EXISTING WOOD ENCLOSURE AND REPLACE WITH NEW ENCLOSURE AS DETAILED.
3. INTERCEPT MAINLINE FOR NEW MASTER VALVE AND FLOW SENSOR INSTALLATION. INSTALL FLOW SENSOR CABLE WITHIN 1.25" PVC CONDUIT BETWEEN SENSOR AND CONTROLLER.
4. IRRIGATION CONTROLLER "B" PEDESTAL MOUNT OUTSIDE FENCE AS DETAILED. SERVICE WITH 120 VAC ELECTRICAL FROM EXISTING CONTROLLER AT THIS LOCATION TO BE REMOVED. INSTALL PVC CONDUITS FOR FLOW SENSOR CABLE AND LOW VOLTAGE WIRES FROM CONTROLLER TO OUTSIDE PLANTER.
5. INTERCEPT MAINLINE FOR NEW PVC MAINLINE CONNECTION.
6. EXISTING REMOTE CONTROL VALVES TO BE REMOVED.
7. EXISTING 3" PVC MAINLINE TO REMAIN IN SERVICE.
8. CAP EXISTING 3" PVC MAINLINE.
9. EXISTING 3" PVC MAINLINE AND 6 REMOTE CONTROL VALVES IN CONFLICT WITH NEW TURF FIELD AND PATHWAY TO BE REMOVED.
10. EXISTING 2" WATER METER TO REMAIN.
11. EXISTING BACKFLOW PREVENTOR.
12. EXISTING MASTER VALVE AND FLOW SENSOR.
13. QUICK COUPLER VALVE AND GATE VALVE FOR SYNTHETIC TURF MAINTENANCE.



NOTES:

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Irrigation Consultant:
Russell D. Mitchell Associates, Inc.
2760 Camino Diablo
Walnut Creek, CA 94597
tel 925.939.3985 ♦ fax 925.932.5671
www.rmairrigation.com

KEY MAP

0' 10' 20' 40'
0 ½" 1" 2"

NO.	REVISION	BY	DATE

DESIGNED JB
DRAWN DM / JB
CHECKED JB
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS
DRAWING NAME
IRRIGATION PLAN– PHASE 1
SAN RAFAEL COUNTY OF MARIN CALIFORNIA

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING – URBAN DESIGN

NOT FOR CONSTRUCTION

REGISTERED LANDSCAPE ARCHITECT – STATE OF CALIFORNIA – CHRIS GATES – No. 3652 – Signature – 6/30/2024 Renewal Date – 12/21/2023 Date – LA

100% CDS

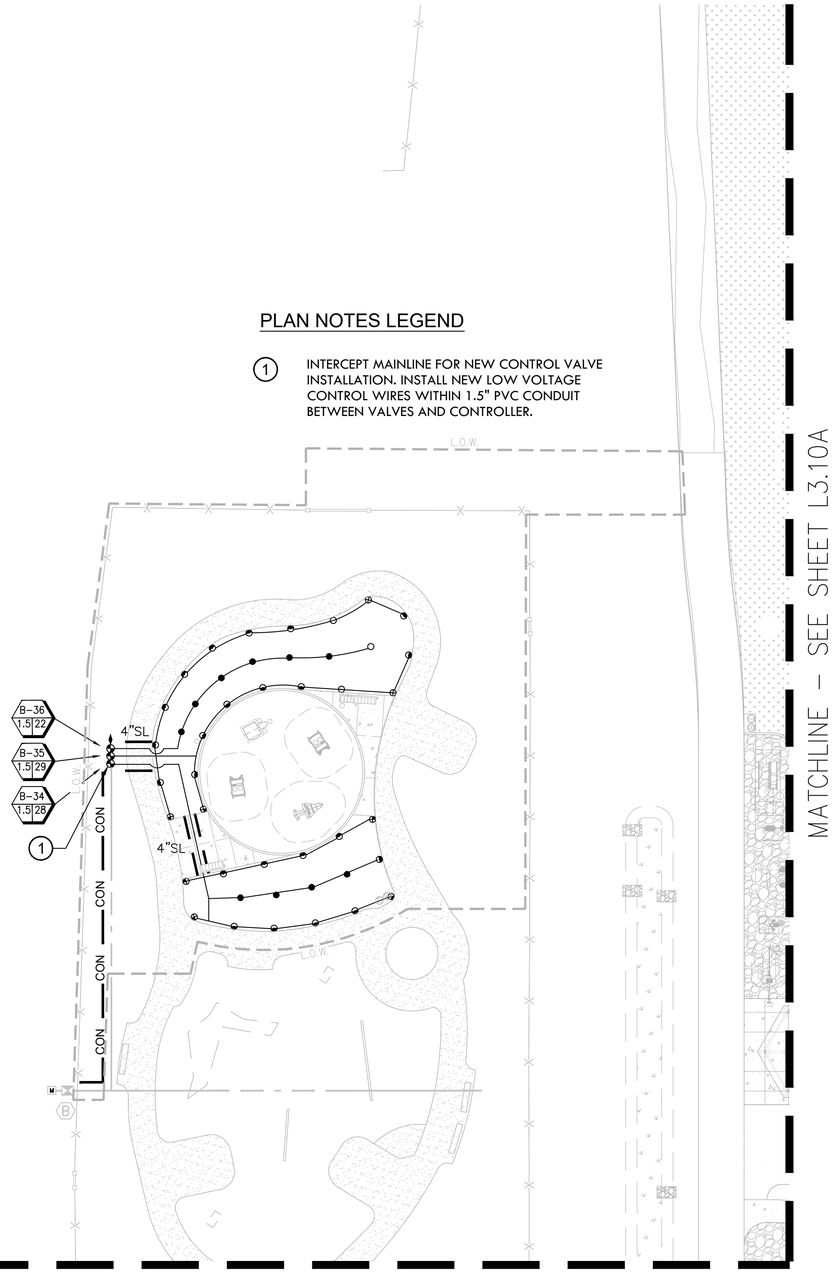
CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE: 1"=20'–0"
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: L3.12A

May 08, 2024 - 8:52am - USER Jonathan
\\fmserv\Company Data\2022\22-301 Pickleweed Park - San Rafael\ACAD\LDSHED_DG-IRR-PICKLEWEED-RVTEMP.dwg

PLAN NOTES LEGEND

(1) INTERCEPT MAINLINE FOR NEW CONTROL VALVE INSTALLATION. INSTALL NEW LOW VOLTAGE CONTROL WIRES WITHIN 1.5" PVC CONDUIT BETWEEN VALVES AND CONTROLLER.

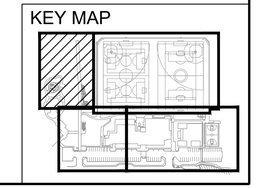


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KEY MAP



0' 10' 20' 40'
0" 3/4" 1" 2"

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USA
UNDERGROUND SERVICE ALERT
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NO.	REVISION	BY	DATE

DESIGNED JB
DRAWN DM / JB
CHECKED JB
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
IRRIGATION PLAN – PHASE 1 ADD ALT

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING - URBAN DESIGN
T 925.756.0170 www.gateswa.com

NOT FOR CONSTRUCTION

REGISTERED LANDSCAPE ARCHITECT
CHRIS GATES No. 3022
Expiration 6/30/2024
Renewal Date 12/21/2023
STATE OF CALIFORNIA

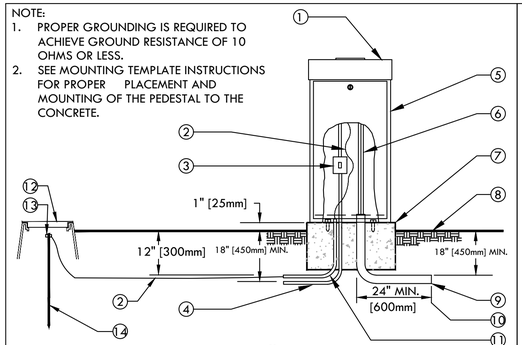
100% CDS

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE:
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: L3.13A

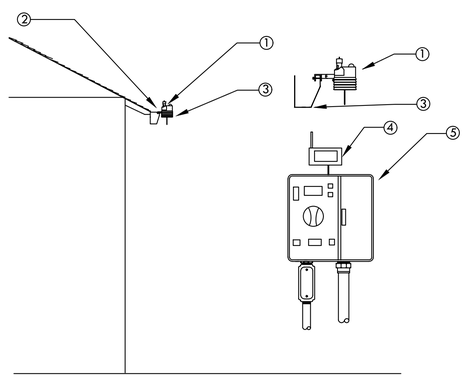
May 08, 2024 – 3:52pm – USER Bradshaw
\\rmserv\CompanyData\2022\22-301 Pickleweed Park – San Rafael\ACAD\100%CD_DG-IRR-PHASE1-INTERIM.dwg

NOTE:
1. PROPER GROUNDING IS REQUIRED TO ACHIEVE GROUND RESISTANCE OF 10 OHMS OR LESS.
2. SEE MOUNTING TEMPLATE INSTRUCTIONS FOR PROPER PLACEMENT AND MOUNTING OF THE PEDESTAL TO THE CONCRETE.



① TOP ENTRY IRRIGATION CONTROLLER.
② #6 BARE COPPER GROUND WIRE.
③ 120 VOLT LOCKABLE WEATHERPROOF ON/OFF SWITCH PROVIDED UNDER IRRIGATION CONTRACT.
④ 120 VOLT A.C. ELECTRICAL SERVICE FROM SOURCE TO CONTROLLER LOCATION PROVIDED BY CONTRACTOR. IRRIGATION CONTRACTOR TO PROVIDE RIGID STEEL CONDUIT FROM SERVICE STUB-OUT TO CONTROLLER GCFI SWITCH AND COMPLETE ELECTRICAL SERVICE TO CONTROLLER.
⑤ PEDESTAL ENCLOSURE.
⑥ LOW VOLTAGE CONTROL WIRING.
⑦ CONCRETE PAD-6" [150mm] THICK (MIN.) EXTEND 6" [150mm] BEYOND EACH SIDE AND BACK, 24" [600mm] IN FRONT AND 1" [25mm] ABOVE FINISH GRADE.
⑧ FINISH GRADE.
⑨ SCHEDULE 40 GREY PVC ELECTRICAL CONDUIT WITH SWEEP ELL FOR LOW VOLTAGE WIRE.
⑩ 24" MIN. [600mm] AND OR 12" [300mm] BEYOND HARDSCAPE.
⑪ 1 1/2" [40mm] PVC SWEEP ELL FOR GROUND WIRE.
⑫ 6" ROUND BLACK PLASTIC BOX WITH T-LID FOR GROUND ROD.
⑬ CADWELD CONNECTIONS
⑭ 8' LONG COPPER GROUND ROD. LOCATE A MINIMUM OF 10' AWAY FROM CONTROLLER.

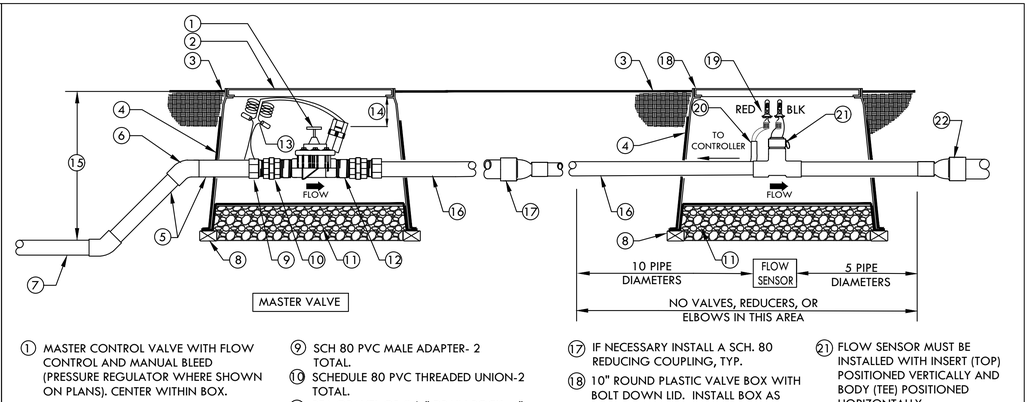
1 CONTROLLER - PEDESTAL MOUNT
SCALE: NONE



NOTE: MAXIMUM LINE OF SIGHT FROM SENSOR TO RECEIVER IS 1000 FT. DISTANCE IS LESS IF OBSTRUCTIONS EXIST. SENSOR MUST BE INSTALLED IN "CLEAR SPACE" WHERE IT IS EXPOSED TO UNOBSTRUCTED RAINFALL AND IS CLEAR OF IRRIGATION SPRAY.

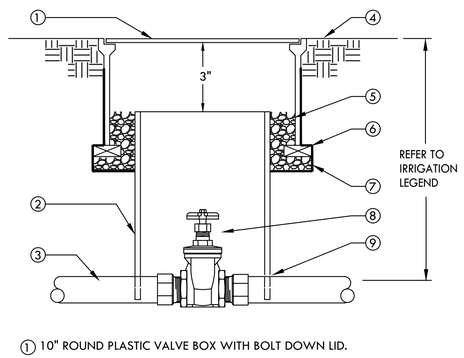
① WIRELESS CLIMATE SENSOR TRANSMITTER (EVE/GUTTER MOUNTED)
② MOUNT SENSOR ON GUTTER/EVE
③ GUTTER/EVE
④ SENSOR RECEIVER
⑤ CONTROLLER

2 WIRELESS WEATHER SENSOR
SCALE: NONE



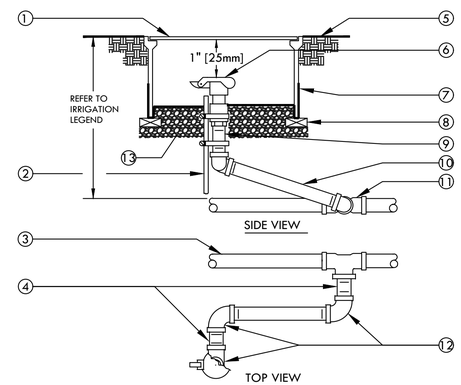
① MASTER CONTROL VALVE WITH FLOW CONTROL AND MANUAL BLEED (PRESSURE REGULATOR WHERE SHOWN ON PLANS). CENTER WITHIN BOX.
② 14" X 19" RECTANGULAR PLASTIC VALVE BOX WITH BOLT DOWN LID. INSTALL BOX AS SHOWN IN BOX INSTALLATION DETAIL.
③ FINISH GRADE.
④ 1/2" MESH, 19 GAUGE HOT DIPPED GALVANIZED STEEL WIRE TO COVER VALVE BOX BOTTOM AND CUTOUTS.
⑤ SCH 80 PVC PIPE. LENGTH AS REQUIRED.
⑥ SCHEDULE 80 PVC 45° ELBOW (SxS)
⑦ PVC MAIN LINE FROM BACKFLOW OR PUMP.
⑧ BRICK-ONE ON EACH CORNER OR THREE FOR ROUND BOXES.
⑨ SCH 80 PVC MALE ADAPTER- 2 TOTAL.
⑩ SCHEDULE 80 PVC THREADED UNION-2 TOTAL.
⑪ PEA GRAVEL OR 3/4" DRAIN ROCK- 4" [100mm] DEEP BELOW VALVE (NO SOIL IN VALVE BOX).
⑫ 3" LONG SCHEDULE 80 PVC NIPPLE-2 TOTAL. MATCH VALVE SIZE.
⑬ VALVE CONTROL WIRE- PROVIDE 3M-DBY SEAL PACKS AT ALL SPLICES AND 36" OF EXCESS UF WIRE IN A 1" DIAMETER COIL. FOR TWO-WIRE PROJECTS ROUTE CONDUIT AND TWO CABLE INTO VALVE BOX AND USE DECODER THAT IS COMPATIBLE WITH CONTROLLER AND VALVE.
⑭ 3" MIN 6" MAX.
⑮ REFER TO IRRIGATION LEGEND.
⑯ SCH 80 PVC MAIN LINE TO FLOW SENSOR.
⑰ IF NECESSARY INSTALL A SCH. 80 REDUCING COUPLING, TYP.
⑱ 10" ROUND PLASTIC VALVE BOX WITH BOLT DOWN LID. INSTALL BOX AS SHOWN IN BOX INSTALLATION DETAIL.
⑲ 18 GAUGE AWG DIRECT BURIAL WIRE. FLOW SENSOR WIRE MUST BE RUN IN 1" PVC CONDUIT FROM FLOW SENSOR TO CONTROLLER ENCLOSURE. PROVIDE 3M-DBY SEAL PACKS AT ALL SPLICES AND 36" OF EXCESS WIRE IN A 1" DIAMETER COIL. FOR TWO-WIRE PROJECTS ROUTE CONDUIT AND TWO CABLE INTO SENSOR BOX AND USE SENSOR DECODER THAT IS COMPATIBLE WITH CONTROLLER AND SENSOR.
⑳ SCH 40 PVC CONDUIT FOR SENSOR WIRE OR TWO WIRE CABLE FROM CONTROLLER.
㉑ FLOW SENSOR MUST BE INSTALLED WITH INSERT (TOP) POSITIONED VERTICALLY AND BODY (TEE) POSITIONED HORIZONTALLY.
㉒ SCH. 80 REDUCING COUPLING UPSIZING TO MAIN LINE SERVICING IRRIGATION SYSTEM IF REQUIRED.

3 MASTER VALVE & FLOW SENSOR INSTALLATION
SCALE: NONE



① 10" ROUND PLASTIC VALVE BOX WITH BOLT DOWN LID.
② 8" CLASS 160 OR SCHEDULE 40 PVC PIPE (NOTCH TO FIT OVER MAIN LINE PIPE).
③ PVC MAIN LINE.
④ FINISH GRADE.
⑤ PEA GRAVEL OR 3/4" DRAIN ROCK - 4" DEEP (NO SOIL IN VALVE BOX).
⑥ BRICK-2 TOTAL.
⑦ 19 GAUGE 1/2" SQUARE WIRE MESH. WRAP UP SIDES OF BOX.
⑧ GATE VALVE WITH X-TOP HANDLE.
⑨ MALE ADAPTER. REFER TO LEGEND FOR FITTING TYPE.

4 GATE VALVE - 3" [75mm] AND SMALLER
SCALE: NONE

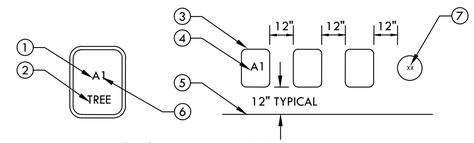


① 10" ROUND PLASTIC VALVE BOX WITH BOLT DOWN LID.
② 1 1/4" x 1 1/4" x 3/16" [30mm x 30mm x 5mm] ANGLE IRON 30" [760mm] LONG W/2 STAINLESS STEEL STRAPS (ONE AROUND QCV).
③ PVC MAIN LINE.
④ 3" [75mm] LONG SCHEDULE 80 PVC THREADED NIPPLE.
⑤ FINISH GRADE.
⑥ QUICK COUPLING VALVE.

NOTE:
NIPPLES AND FITTINGS TO BE SAME SIZE AS VALVE IPT INLET THREAD SIZE.

⑦ 19 GAUGE 1/2" [13mm] SQUARE WIRE MESH.
⑧ BRICK - 2 TOTAL.
⑨ SCHEDULE 80 PVC THREADED NIPPLE.
⑩ 10" [250mm] LONG SCHEDULE 80 PVC THREADED NIPPLE.
⑪ UPC APPROVED SCHEDULE 40 PVC TEE OR ELBOW.
⑫ SCHEDULE 80 PVC THREADED 90° ELL.
⑬ PEA GRAVEL OR 3/4" DRAIN ROCK- 4" [100mm] DEEP BELOW VALVE (NO SOIL IN VALVE BOX).

5 QUICK COUPLING VALVE (#44-LRC-1")
SCALE: NONE



VALVE IDENTIFICATION

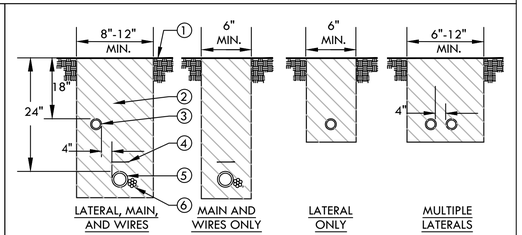
① CONTROLLER ID.
② ALL TREE VALVES TO HAVE TREE BRANDED INTO LID.
③ RECTANGULAR VALVE BOX.
④ HEAT BRAND VALVE TYPE PER TABLE OR CONTROLLER ID AND STATION NUMBER INTO LID.
⑤ EDGE OF LAWN, WALK, FENCE, CURB, ETC.
⑥ STATION NUMBER.
⑦ ROUND VALVE BOX FOR QCV AND GATE VALVE. HEAT BRAND VALVE TYPE INTO INTO LID PER TABLE.

TOP VIEW OF BOXES

ITEMS TO BRAND:	BRAND CODE
GATE VALVE	GV
PRESSURE REDUCER	PRV
MASTER VALVE	MV
FLOW SENSOR	FS
HYDROMETER	HM
MAIN LINE AIR RELIEF	ARV
REMOTE CONTROL VALVE	A___
QUICK COUPLER	QC
SPLICE BOX	SB
PULL BOX	PB
LIGHTNING ARRESTOR	LA
GROUND ROD	GR

INSTRUCTIONS:
1. CENTER VALVE BOX OVER REMOTE CONTROL VALVE TO FACILITATE SERVICING VALVE.
2. SET BOXES 1" ABOVE FINISH GRADE OR MULCH COVER IN GROUND COVER/SHRUB AREA AND FLUSH WITH FINISH GRADE IN TURF AREA.
3. SET RCV AND VALVE BOX ASSEMBLY IN GROUND COVER/SHRUB AREA WHERE POSSIBLE. INSTALL IN LAWN ONLY IF GROUND COVER DOES NOT EXIST ADJACENT TO LAWN.
4. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE OF LAWN, WALK, FENCE, CURB, ETC.
5. AVOID HEAVILY COMPACTING SOIL AROUND VALVE BOXES TO PREVENT COLLAPSE AND DEFORMATION OF VALVE BOX SIDES.
6. INSTALL EXTENSION BY VALVE BOX MANUFACTURER AS REQUIRED TO COMPLETELY ENCLOSE ASSEMBLY FOR EASY ACCESS.

6 VALVE BOX INSTALLATION
SCALE: NONE



NOTES:
1. ALL MAIN SUPPLY LINES AND LATERAL LINES SHALL BE PLACED IN SLEEVES UNDER PAVED SURFACES. INSTALL LOW VOLTAGE WIRES WITHIN A SEPARATE CONDUIT UNDER PAVED SURFACES. DO NOT TAPE WIRES WITHIN CONDUIT.
2. REUSE SALVAGED EXCAVATED FILL AND COMPACT TO ORIGINAL DENSITY IN LANDSCAPE AREAS. ALL OTHER AREAS SHALL BE AT 95% COMPACTION. BACKFILL MATERIAL SHALL BE THE EARTH EXCAVATED FROM THE TRENCHES, FREE FROM ROCKS (ANYTHING LARGER THAN 2"), CONCRETE CHUNKS, AND OTHER FOREIGN OR COARSE MATERIALS.
3. WHEN 12" POP-UP SPRINKLER HEADS ARE USED, INCREASE THE DEPTH OF LATERAL TO 18" AT THE SPRINKLER LOCATION ONLY.

① FINISH GRADE.
② CLEAN BACKFILL MATERIAL.
③ LATERAL LINE.
④ 3" DETECTABLE WARNING TAPE OVER MAIN LINE. INSTALL 3" ABOVE MAIN LINE. USE CHRISTY MODEL #TA-DT-3-BIRR FOR POTABLE IRRIGATION SYSTEMS OR #TA-DT-3-PRW FOR RECYCLED IRRIGATION WATER SYSTEMS
⑤ MAIN LINE.
⑥ LOW VOLTAGE CONTROL WIRES, TWO-WIRE CABLE, OR CONDUIT WITH WIRES. FOR MULTIPLE WIRES, TAPE AND BUNDLE WIRES AT 10 FT. INTERVALS. WIRING SHALL BE LAID OUT LOOSELY IN THE TRENCH.

7 TRENCHING
SCALE: NONE

NO.	REVISION	BY	DATE

DESIGNED JB
DRAWN DM / JB
CHECKED CB
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS
DRAWING NAME
IRRIGATION DETAILS
SAN RAFAEL COUNTY OF MARIN CALIFORNIA

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING - URBAN DESIGN

NOT FOR CONSTRUCTION

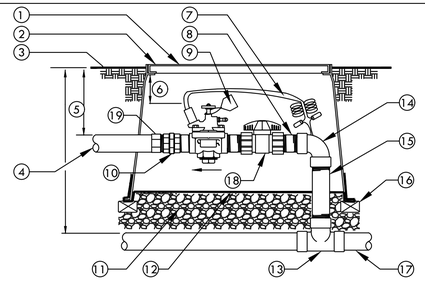
REGISTERED LANDSCAPE ARCHITECT — CHRIS GATES — No. 5002 — Signature — 6/30/2024 Renewal Date — 12/21/2023 Date — L.A. — STATE OF CALIFORNIA

100% CDS

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE: NTS
DATE: ~~05/23/23~~
CITY PROJECT NO.: 11376
SHEET NO.: L3.20

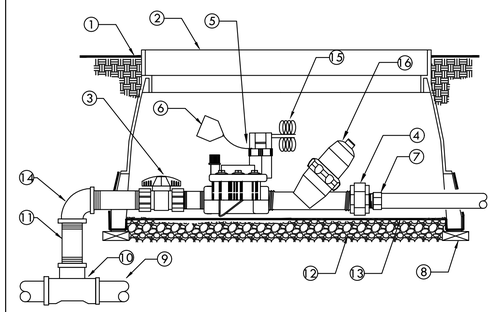
May 08, 2024 - 3:53pm - USER Jonathan
\\fmsrv\Company Data\2022\22-301 Pickleweed Park - San Rafael\ACAD\LDR\22-301_LDR-IRR-PICKLEWEED Notes-Lg-Det.dwg



1. REMOTE CONTROL VALVE WITH FLOW CONTROL AND MANUAL BLEED (PRESSURE REGULATOR WHERE SHOWN ON PLANS).
2. USE A NDS PRO SERIES 14" X 19" RECTANGULAR PLASTIC VALVE BOX WITH BOLT DOWN LID FOR 1" VALVES. FOR 1.5" AND LARGER VALVES INSTALL BALL VALVE WITHIN A SEPARATE 10" ROUND BOX OR ONE BALL VALVE PER MANIFOLD OF VALVES. GATE VALVE SIZE SHALL BE SAME AS LARGEST VALVE WITHIN MANIFOLD. ONE VALVE PER BOX- NO EXCEPTIONS. INSTALL BOX AS SHOWN IN BOX INSTALLATION DETAIL.
3. FINISH GRADE.
4. PVC LATERAL LINE.
5. REFER TO IRRIGATION SPECS.
6. 3" [75mm] MIN, 6" [150mm] MAX.
7. VALVE CONTROL WIRE- PROVIDE SEAL PACKS AT ALL SPLICES AND 3' [1m] OF EXCESS UF WIRE IN A 1" [25mm] DIAMETER COIL.
8. SCHEDULE 80 PVC NIPPLE (3 TOTAL).
9. VALVE I.D. TAG (CONTROLLER AND STATION NUMBER).
10. SCHEDULE 80 PVC THREADED UNION.
11. PEA GRAVEL OR 3/4" DRAIN ROCK- 4" [100mm] DEEP BELOW VALVE (NO SOIL IN VALVE BOX).
12. 19 GAUGE 1/2" [12mm] SQUARE WIRE MESH.
13. SCHEDULE 40 OR 80 PVC TEE. REFER TO LEGEND FOR TYPE.
14. SCHEDULE 80 PVC 90° ELBOW (TxT).
15. SCHEDULE 80 PVC NIPPLE- LENGTH AS REQUIRED.
16. BRICK-1 EACH CORNER.
17. PVC MAIN LINE.
18. SCHEDULE 80 PVC UNION BALL VALVE (ONE PER VALVE).
19. SCHEDULE 40 MALE ADAPTER

1 REMOTE CONTROL VALVE

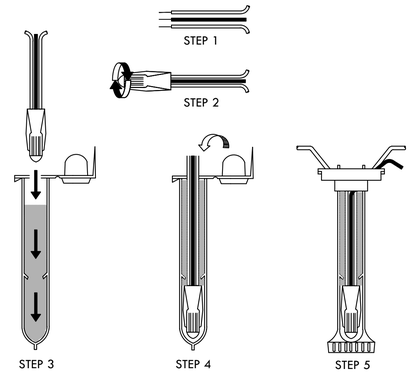
SCALE: NONE



1. FINISH GRADE
2. RECTANGULAR JUMBO PLASTIC VALVE BOX WITH BOLT DOWN LID. ONE VALVE PER BOX- NO EXCEPTIONS. INSTALL BOX AS SHOWN IN BOX INSTALLATION DETAIL.
3. SCHEDULE 80 PVC UNION BALL VALVE (ONE PER VALVE)
4. SCHEDULE 80 PVC THREADED UNION
5. REMOTE CONTROL VALVE WITH PRESSURE REGULATOR.
6. VALVE I.D. TAG (CONTROLLER AND STATION NUMBER).
7. SCHEDULE 40 MALE ADAPTER
8. BRICK-1 EACH CORNER.
9. PVC MAIN LINE.
10. SCHEDULE 40 OR 80 PVC TEE. REFER TO LEGEND FOR TYPE.
11. SCHEDULE 80 PVC NIPPLE-(4-TOTAL) LENGTH AS REQUIRED.
12. PEA GRAVEL OR 3/4" [20mm] DRAIN ROCK - 4" [102mm] DEEP BELOW VALVE (NO SOIL IN VALVE BOX).
13. 19 GAUGE 1/2" [13mm] SQUARE WIRE MESH.
14. SCHEDULE 80 PVC 90° ELBOW (TxT).
15. VALVE CONTROL WIRE- PROVIDE 3M-DBY SEAL PACKS AT ALL SPLICES AND 3' [1m] OF EXCESS UF WIRE IN A 1" [25mm] DIAMETER COIL.
16. DISC FILTER

2 REMOTE CONTROL VALVE (DRIPZONE)

SCALE: NONE

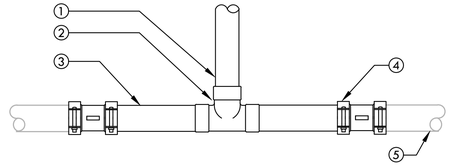


NOTE:
MAXIMUM # OF WIRES PER CONNECTOR:
- 3-#14 GAUGE
- 2-#12 GAUGE

INSTRUCTIONS:
1. STRIP WIRES APPROXIMATELY 1/2" FROM ENDS TO EXPOSE WIRE.
2. TWIST CONNECTOR AROUND WIRES CLOCKWISE UNTIL HAND TIGHT, DO NOT OVERTIGHTEN.
3. INSERT WIRE ASSEMBLY TO BOTTOM OF GEL-FILLED TUBE. CHECK TO MAKE SURE CONNECTOR HAS BEEN PUSHED PAST LOCKING FINGERS AND IS SEATED AT THE BOTTOM OF THE TUBE.
4. PLACE WIRES WHICH EXIT TUBE IN WIRE EXIT HOLES AND CLOSE CAP UNTIL IT SNAPS.
5. INSPECT FINAL SPLICE ASSEMBLY THAT IT IS SECURED.

3 WEATHERPROOF WIRE SPLICE ASSEMBLY

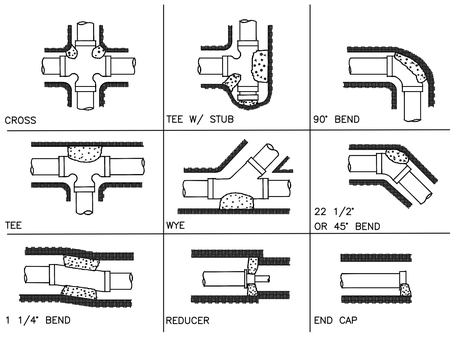
SCALE: NONE



1. NEW SECTION OF CLASS 315 PVC MAIN LINE
2. SCH 80 PVC TEE (SxSxS)
3. CLASS 315 PVC PIPE (6" IN LENGTH)
4. HYMAX REPAIR COUPLING- MATCH EXISTING MAIN LINE SIZE (2 TOTAL)
5. EXISTING MAIN LINE.

4 TEE CONNECTION TO EXISTING MAIN LINE

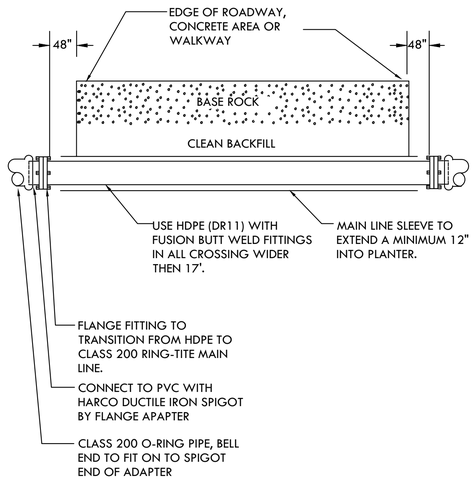
SCALE: NONE



1. CONCRETE THRUST BLOCK SHALL HAVE CONTACT WITH FITTING ONLY AND REMAIN CLEAR OF PIPE AND JOINTS.
2. THRUST BLOCK TO BE CONSTRUCTED OF 3000 PSI CONCRETE.
3. BLOCK TO BE POURED AGAINST UNDISTURBED SOIL.

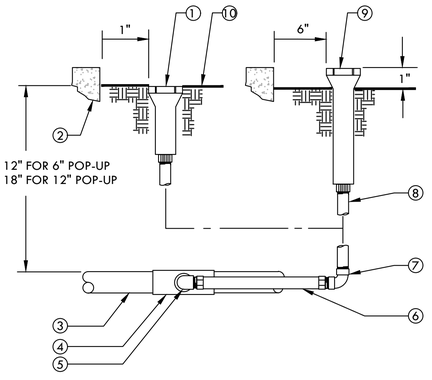
5 THRUST BLOCK

SCALE: NONE



6 SAMPLE CROSSING OF 4" MAIN IN AREAS 17' AND WIDER

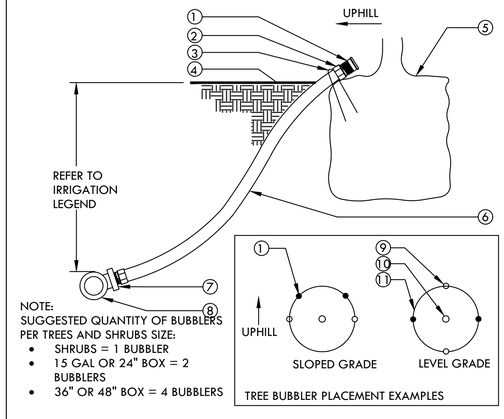
SCALE: NONE
DET: HDPE Crossing



1. POP-UP LAWN.
2. WALL, WALK, CURB OR BUILDING.
3. PVC LATERAL LINE.
4. SCH. 40 PVC TEE OR ELBOW.
5. 1/2" SCH. 40 PVC STREET ELL.
6. 1/2" FLEXIBLE IPS HOSE 6" LONG WITH MALE ADAPTERS.
7. 1/2" SCH. 40 PVC THREADED 90° ELL.
8. 1/2" SCH. 80 PVC THREADED NIPPLE (LENGTH AS REQUIRED).
9. POP-UP SHRUB SPRAY SPRINKLER OR BUBBLER.
10. FINISH GRADE.

7 POP-UP SPRAY SPRINKLER RISER

SCALE: NONE



1. BUBBLER (TO BE INSTALLED ON TOP OF ROOTBALL).
2. 1/2" SCH. 40 MALE ADAPTER (2 TOTAL).
3. 6" STAPLE.
4. FINISH GRADE.
5. TREE OR SHRUB ROOTBALL.
6. 1/2" IPS FLEXIBLE PVC. USE WELD-ON 795 SOLVENT CEMENT OR EQUAL WHEN BONDING PVC HOSE TO FITTINGS.
7. PVC TEE (SST), ELBOW (ST) OR FEMALE ADAPTER.
8. PVC LATERAL LINE.
9. TREE STAKES.
10. TREE OR SHRUB.
11. EDGE OF ROOTBALL (TYPICAL).

8 TREE AND SHRUB BUBBLER

SCALE: NONE

NO.	REVISION	BY	DATE

DESIGNED JB
DRAWN DM / JB
CHECKED JB
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS
DRAWING NAME
IRRIGATION DETAILS
SAN RAFAEL COUNTY OF MARIN CALIFORNIA

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING - URBAN DESIGN

NOT FOR CONSTRUCTION

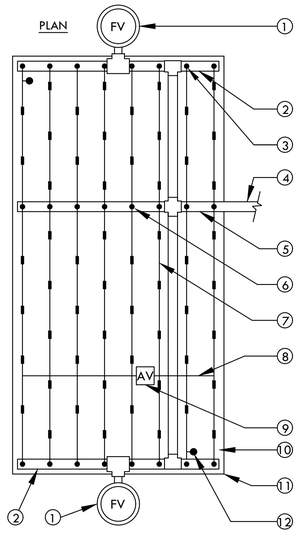
REGISTERED LANDSCAPE ARCHITECT — CHRIS GATES — No. 5000 — 6/30/2024 Renewal Date — 12/21/2023 — STATE OF CALIFORNIA

100% CDS

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE:
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: L3.30

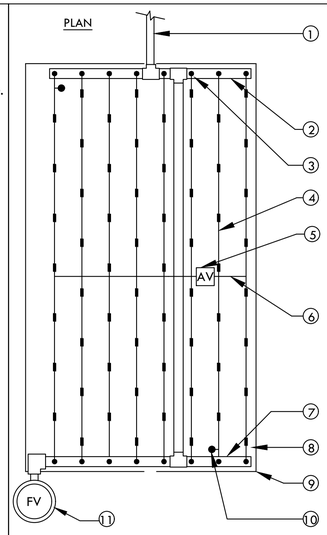
May 08, 2024 - 3:53pm - USER jbradshaw
\\Vmsan\Company\Data\2022\22-301 Pickleweed Park - San Rafael\CAD\100%CD_DG-IRR-PICKLEWEED Notes-Lg-Det.dwg



1. FLUSH VALVE PLUMBED TO FLUSH MANIFOLD AT LOW POINT
2. PVC FLUSH MANIFOLD. MINIMUM SIZE TO BE 1" UNLESS OTHERWISE NOTED.
3. MANIFOLD-TO-ELBOW CONNECTION (TYP).
4. PVC LATERAL LINE FROM VALVE. MINIMUM SIZE TO BE 1" UNLESS OTHERWISE NOTED.
5. PVC SUPPLY MANIFOLD. EXTEND TO END OF ZONE/EXHAUST HEADER.
6. MANIFOLD-TO-TEE CONNECTION.
7. DRIPLINE LATERAL.
8. AIR/VACUUM RELIEF LATERAL, BLANK POLY TUBING CENTERED ON MOUND OR BERM.
9. AIR/VACUUM RELIEF PLUMBED TO BLANK 5/8" POLY TUBING AT EACH HIGH POINT.
10. PERIMETER LATERALS 2" [50mm] TO 4" [100mm] FROM EDGE.
11. AREA PERIMETER.
12. DRIPLINE OPERATION INDICATOR LOCATED AT THE ENDS OF EACH DRIPLINE ZONE.

NOTE:
1. THE TOTAL LENGTH OF ALL INTERCONNECTED DRIP LINE OFF A SINGLE PVC SUPPLY LINE CONNECTION OR A SINGLE RUN OF DRIPLINE SHALL NOT EXCEED 300 FT.
2. INSTALL DRIPLINE 2-4" BELOW GRADE AND STAKE DOWN EVERY 4' OR AS REQUIRED.

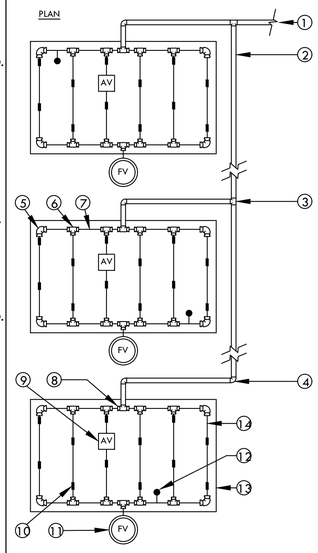
1 TORO DL 2000 CENTER FEED LAYOUT
SCALE: NONE



1. PVC LATERAL LINE FROM VALVE. MINIMUM SIZE TO BE 1" UNLESS OTHERWISE NOTED.
2. PVC FLUSH MANIFOLD. MINIMUM SIZE TO BE 1" UNLESS OTHERWISE NOTED.
3. MANIFOLD-TO-ELBOW CONNECTION (TYP).
4. DRIPLINE LATERAL.
5. AIR/VACUUM RELIEF VALVE PLUMBED TO BLANK 5/8" TUBING AT EACH HIGH POINT.
6. AIR/VACUUM RELIEF LATERAL, BLANK 5/8" POLY TUBING CENTERED ON MOUND OR BERM.
7. PVC FLUSH MANIFOLD. MINIMUM SIZE TO BE 1" UNLESS OTHERWISE NOTED.
8. PERIMETER LATERALS 2" [50mm] TO 4" [100mm] FROM EDGE.
9. AREA PERIMETER.
10. DRIP OPERATION INDICATOR LOCATED AT THE ENDS OF EACH DRIPLINE ZONES.
11. AUTOMATIC FLUSH VALVE PLUMBED TO FLUSH MANIFOLD AT LOW POINT.

NOTE:
1. THE TOTAL LENGTH OF ALL INTERCONNECTED DRIP LINE OFF A SINGLE PVC SUPPLY LINE CONNECTION OR A SINGLE RUN OF DRIPLINE SHALL NOT EXCEED 300 FT.
2. INSTALL DRIPLINE 2-4" BELOW GRADE AND STAKE DOWN EVERY 4' OR AS REQUIRED.

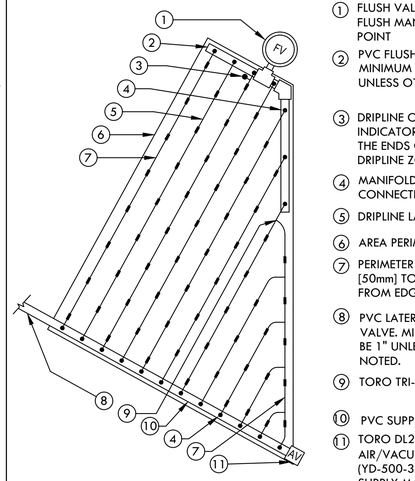
2 TORO DL 2000 END FEED LAYOUT
SCALE: NONE



1. PVC LATERAL LINE FROM VALVE. MINIMUM SIZE TO BE 1" UNLESS OTHERWISE NOTED.
2. PVC FLUSH MANIFOLD. MINIMUM SIZE TO BE 1" UNLESS OTHERWISE NOTED.
3. PVC TEE (SxSxS).
4. PVC ELL (SxS).
5. TORO TRI-LOC ELL (TL-E).
6. TORO TRI-LOC TEE (TL-T).
7. BLANK 5/8" [16mm] POLY TUBING AT SUPPLY AND FLUSH END OF EACH ISLAND.
8. REFER TO DRIPLINE TO PVC CONNECTION DETAIL.
9. AIR/VACUUM RELIEF VALVE PLUMBED TO TUBING AT HIGH POINT.
10. DRIPLINE LATERAL.
11. MANUAL FLUSH VALVE PLUMBED TO TUBING AT LOW POINT.
12. DRIPLINE OPERATION INDICATOR LOCATED AT THE ENDS OF EACH DRIPLINE ZONE.
13. ISLAND PERIMETER.
14. PERIMETER LATERALS 2" [50mm] TO 4" [100mm] FROM EDGE.

NOTE:
1. THE TOTAL LENGTH OF A SINGLE DRIP LINE RUN SHALL NOT EXCEED 300 FT.
2. INSTALL DRIPLINE 2-4" BELOW GRADE AND STAKE DOWN EVERY 4' OR AS REQUIRED.

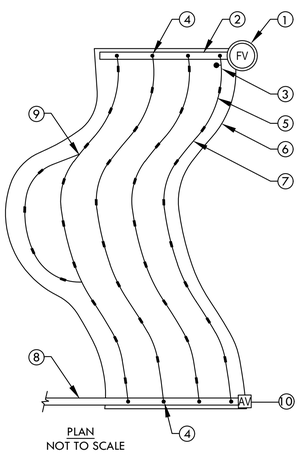
3 TORO DL 2000 ISLAND LAYOUT
SCALE: NONE



1. FLUSH VALVE PLUMBED TO FLUSH MANIFOLD AT LOW POINT
2. PVC FLUSH MANIFOLD. MINIMUM SIZE TO BE 1" UNLESS OTHERWISE NOTED.
3. DRIPLINE OPERATION INDICATOR LOCATED AT THE ENDS OF EACH DRIPLINE ZONE.
4. MANIFOLD-TO-ELBOW CONNECTION.
5. DRIPLINE LATERAL.
6. AREA PERIMETER.
7. PERIMETER LATERALS 2" [50mm] TO 4" [100mm] FROM EDGE.
8. PVC LATERAL LINE FROM VALVE. MINIMUM SIZE TO BE 1" UNLESS OTHERWISE NOTED.
9. TORO TRI-LOC TEE (TL-T)
10. PVC SUPPLY MANIFOLD.
11. TORO DL2000 AIR/VACUUM RELIEF VALVE (YD-500-34) PLUMBED TO SUPPLY MANIFOLD AT HIGH POINT.

NOTE:
1. THE TOTAL LENGTH OF ALL INTERCONNECTED DRIP LINE OFF A SINGLE PVC SUPPLY LINE CONNECTION OR A SINGLE RUN OF DRIPLINE SHALL NOT EXCEED 300 FT.
2. INSTALL DRIPLINE 2-4" BELOW GRADE AND STAKE DOWN EVERY 4' OR AS REQUIRED.

4 TORO DL2000 TRIANGULAR LAYOUT
SCALE: NONE

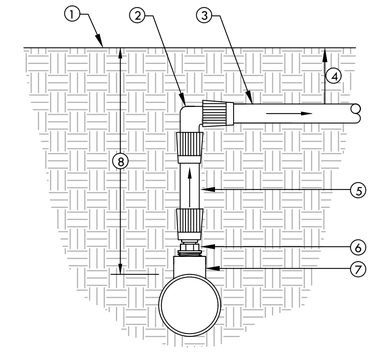


1. FLUSH VALVE PLUMBED TO FLUSH MANIFOLD AT LOW POINT
2. PVC FLUSH MANIFOLD. MINIMUM SIZE TO BE 1" UNLESS OTHERWISE NOTED.
3. DRIPLINE OPERATION INDICATOR LOCATED AT THE ENDS OF EACH DRIPLINE ZONE.
4. PVC TEE (SxSxS).
5. PVC ELL (SxS).
6. TORO TRI-LOC ELL (TL-E).
7. TORO TRI-LOC TEE (TL-T).
8. PVC LATERAL LINE FROM VALVE. MINIMUM SIZE TO BE 1" UNLESS OTHERWISE NOTED.
9. AIR/VACUUM RELIEF VALVE PLUMBED TO TUBING AT HIGH POINT.
10. DRIPLINE LATERAL.

NOTE:
1. THE TOTAL LENGTH OF ALL INTERCONNECTED DRIP LINE OFF A SINGLE PVC SUPPLY LINE CONNECTION OR A SINGLE RUN OF DRIPLINE SHALL NOT EXCEED 300 FT.
2. INSTALL DRIPLINE 2-4" BELOW GRADE AND STAKE DOWN EVERY 4' OR AS REQUIRED.
3. DRIPLINE TUBING
4. TORO TRI-LOC TEE
5. BLANK 5/8" [16mm] POLY TUBING, LENGTH AS NECESSARY.
6. TORO TRI-LOC MPT ADAPTER (TL-M50)
7. BRICK (1 OF 2)
8. SCH 40 PVC TEE (SxSxT) WITH 1/2" FPT OUTLET.
9. PVC LATERAL LINE SUPPLY. MINIMUM SIZE TO BE 1" UNLESS SIZED DIFFERENTLY ON DRAWINGS. USE SCH 40 PVC 1"x1"x1/2" TEE OR 90° ELBOW.

NOTE:
USE ONLY WHEN THE TOTAL LENGTH OF DRIP LINE SERVICED FROM THIS PVC CONNECTION IS LESS THAN 300 FT.

7 DRIPLINE TO PVC CONNECTION-SINGLE SOURCE DRIP AREAS ONLY
SCALE: NONE



SECTION/ELEVATION
NOT TO SCALE

1. FINISH GRADE
2. TORO TRI-LOC ELBOW (TL-E)
3. DRIPLINE TUBING
4. DEPTH OF TUBING PER IRRIGATION LEGEND.
5. BLANK 5/8" [16mm] POLY TUBING, LENGTH AS NECESSARY.
6. TORO TRI-LOC MPT ADAPTER (TL-M50)
7. SCH 40 PVC TEE (SxSxT) WITH 1/2" FPT OUTLET.
8. DEPTH OF PVC LATERAL LINE PER IRRIGATION LEGEND

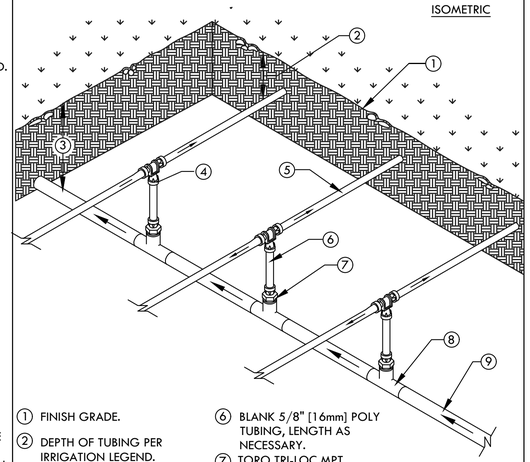
8 DRIPLINE MANIFOLD TO ELBOW CONNECTION
SCALE: NONE

PLAN
NOT TO SCALE

1. FLUSH VALVE PLUMBED TO FLUSH MANIFOLD AT LOW POINT
2. PVC FLUSH MANIFOLD. MINIMUM SIZE TO BE 1" UNLESS OTHERWISE NOTED.
3. DRIPLINE OPERATION INDICATOR LOCATED AT THE ENDS OF EACH DRIPLINE ZONE.
4. MANIFOLD-TO-ELBOW CONNECTION (TYP).
5. DRIPLINE LATERAL.
6. AREA PERIMETER.
7. PERIMETER LATERALS 2" [50mm] TO 4" [100mm] FROM EDGE.
8. PVC SUPPLY LINE/HEADER FROM VALVE. MINIMUM SIZE TO BE 1" UNLESS OTHERWISE NOTED.
9. TORO TRI-LOC TEE (TL-T)
10. TORO DL2000 AIR/VACUUM RELIEF VALVE (YD-500-34) PLUMBED TO SUPPLY MANIFOLD AT HIGH POINT.

NOTE:
1. THE TOTAL LENGTH OF ALL INTERCONNECTED DRIP LINE OFF A SINGLE PVC SUPPLY LINE CONNECTION OR A SINGLE RUN OF DRIPLINE SHALL NOT EXCEED 300 FT.
2. INSTALL DRIPLINE 2-4" BELOW GRADE AND STAKE DOWN EVERY 4' OR AS REQUIRED.

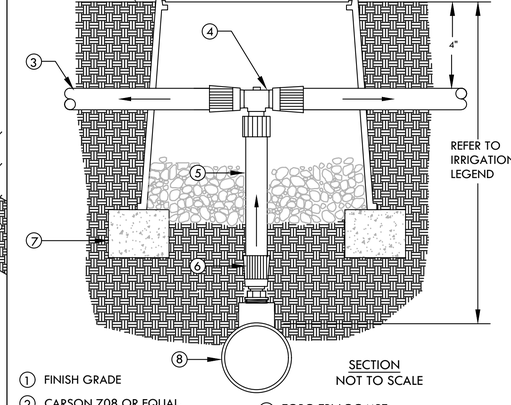
5 TORO DL2000 ODD CURVE LAYOUT
SCALE: NONE



1. FINISH GRADE.
2. DEPTH OF TUBING PER IRRIGATION LEGEND.
3. DEPTH OF PVC LATERAL LINE PER IRRIGATION LEGEND
4. TORO TRI-LOC TEE (TL-T)
5. DRIPLINE TUBING.
6. BLANK 5/8" [16mm] POLY TUBING, LENGTH AS NECESSARY.
7. TORO TRI-LOC MPT ADAPTER (TL-M50)
8. PVC TEE (SxSxT) WITH 1/2" [13mm] FPT OUTLET.
9. PVC LATERAL LINE FROM REMOTE CONTROL VALVE.

NOTE:
THE TOTAL LENGTH OF A SINGLE DRIP LINE RUN SHALL NOT EXCEED 300 FT.

6 TORO DL 2000 CENTER FEED MANIFOLD
SCALE: NONE



SECTION
NOT TO SCALE

1. FINISH GRADE
2. CARSON 708 OR EQUAL. COLOR: BLACK. USE PURPLE FOR RECYCLED WATER SYSTEMS.
3. DRIPLINE TUBING
4. TORO TRI-LOC TEE
5. BLANK 5/8" [16mm] POLY TUBING, LENGTH AS NECESSARY.
6. TORO TRI-LOC MPT ADAPTER (TL-M50)
7. BRICK (1 OF 2)
8. SCH 40 PVC TEE (SxSxT) WITH 1/2" FPT OUTLET.
9. PVC LATERAL LINE SUPPLY. MINIMUM SIZE TO BE 1" UNLESS SIZED DIFFERENTLY ON DRAWINGS. USE SCH 40 PVC 1"x1"x1/2" TEE OR 90° ELBOW.

NOTE:
USE ONLY WHEN THE TOTAL LENGTH OF DRIP LINE SERVICED FROM THIS PVC CONNECTION IS LESS THAN 300 FT.

7 DRIPLINE TO PVC CONNECTION-SINGLE SOURCE DRIP AREAS ONLY
SCALE: NONE

SECTION/ELEVATION
NOT TO SCALE

1. FINISH GRADE
2. TORO TRI-LOC ELBOW (TL-E)
3. DRIPLINE TUBING
4. DEPTH OF TUBING PER IRRIGATION LEGEND.
5. BLANK 5/8" [16mm] POLY TUBING, LENGTH AS NECESSARY.
6. TORO TRI-LOC MPT ADAPTER (TL-M50)
7. SCH 40 PVC TEE (SxSxT) WITH 1/2" FPT OUTLET.
8. DEPTH OF PVC LATERAL LINE PER IRRIGATION LEGEND

8 DRIPLINE MANIFOLD TO ELBOW CONNECTION
SCALE: NONE

NO.	REVISION	BY	DATE

DESIGNED JB
DRAWN DM / JB
CHECKED JB
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
IRRIGATION DETAILS

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING - URBAN DESIGN
SAN FRANCISCO, OAKLAND, SACRAMENTO, LOS GATOS
T 510.750.5170 www.gates.com

NOT FOR CONSTRUCTION

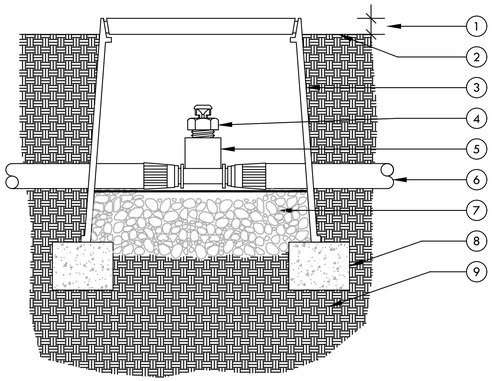
REGISTERED LANDSCAPE ARCHITECT
CHRIS CHEE • PA 6302
6/10/2024
12/31/2025
LA
STATE OF CALIFORNIA

100% CDS

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE:
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: L3.40

May 08, 2024 – 3:53pm – USER jkrabshaw
\\Vmsan\Company Data\2022\22-301 Pickleweed Park – San Rafael\ACAD\100820_DG-IRR-PICKLEWEED Notes-Lg-Det.dwg

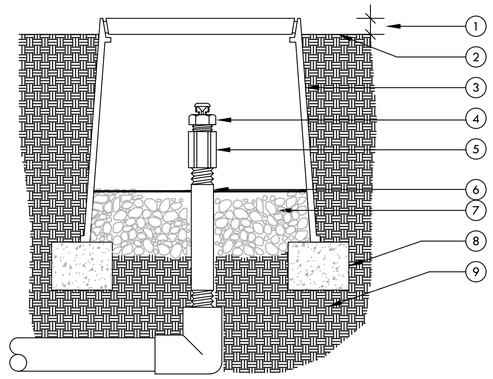


SECTION/ELEVATION

NOTE:
USE ONE AIR/RELIEF VALVE FOR EVERY 7 GPM PER ZONE. LOCATE AT HIGH POINTS.

1. 1" ABOVE FINISH GRADE.
2. FINISH GRADE.
3. 6" ROUND PLASTIC VALVE BOX. HEAT BRAND "AR" ON LID IN 1" HIGH CHARACTERS.
4. TORO DL2000 AIR/VACUUM RELIEF VALVE (YD-500-34).
5. TORO TRI-LOC TEE X 1/2" FPT ADAPTER (TL-T-F50)
6. TORO DL2000 TUBING/ AIR-RELIEF LATERAL.
7. PEA GRAVEL (4" DEEP).
8. BRICK SUPPORTS (2 COMMON BRICKS REQUIRED).
9. NATIVE SOIL PER SPECIFICATIONS.

1 AIR VACUUM RELIEF VALVE IN DRIPLINE
SCALE: NONE

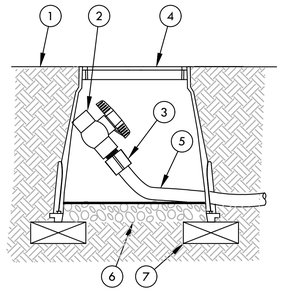


SECTION/ELEVATION

NOTE:
USE ONE AIR/RELIEF VALVE FOR EVERY 7 GPM PER ZONE. LOCATE AT HIGH POINTS.

1. 1" ABOVE FINISH GRADE.
2. FINISH GRADE.
3. 6" ROUND PLASTIC VALVE BOX. HEAT BRAND "AR" ON LID IN 1" HIGH CHARACTERS.
4. TORO DL2000 AIR/VACUUM RELIEF VALVE (YD-500-34).
5. 1/2" SCH 40 PVC COUPLING (TxT)
6. 1/2" SCH 80 PVC NIPPLE (LENGTH AS REQUIRED).
7. PEA GRAVEL (4" DEEP).
8. BRICK SUPPORTS (2 COMMON BRICKS REQUIRED).
9. NATIVE SOIL PER SPECIFICATIONS.

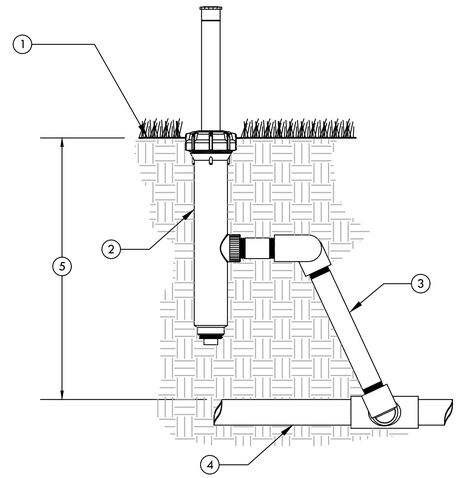
2 AIR VACUUM RELIEF VALVE ON PVC ELL
SCALE: NONE



NOTE:
ALLOW A 12" MINIMUM OF PVC HOSE IN VALVE BOX IN ORDER TO DIRECT FLUSHED WATER OUTSIDE VALVE BOX.

1. FINISH GRADE
2. 1/2" SCH 40 THREADED BALL VALVE.
3. 1/2" SCH 40 MALE ADAPTER.
4. 6" ROUND PLASTIC VALVE BOX.
5. 1" IPS PVC HOSE FROM EXHAUST HEADER OR BLANK DRIP TUBING.
6. PEA GRAVEL SUMP (6" DEEP).
7. BRICK (1 OF 2)

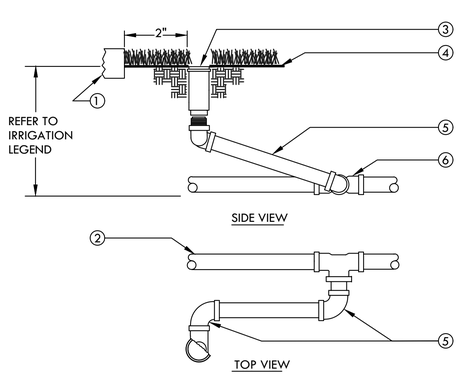
3 DRIPLINE-FLUSH POINT
SCALE: NONE



1. FINISH GRADE.
2. 570 POP-UP DRIP OPERATION INDICATOR ASSEMBLY (TORO MODEL 570-DRIP-IND) INSTALLED AT FURTHEST POINT DOWNSTREAM OF ZONE VALVE.
3. PVC OR SWING PIPE SWING JOINT ASSEMBLY.
4. PVC DRIP ZONE FOOTER.
5. DEPTH OF PVC LINE PER SPECIFICATIONS.

NOTE: TEFLON TAPE ALL THREADED JOINTS

4 570 POP-UP DRIP OPERATION INDICATOR
SCALE: NONE

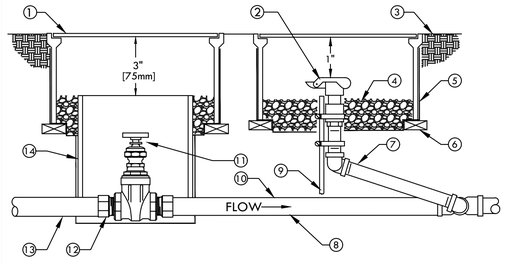


NOTES:

1. SET SPRINKLER 1" ABOVE FINISH GRADE AT TIME OF INSTALLATION - LOWER TO FINISH GRADE WHEN TURF IS WELL ESTABLISHED.

1. WALL, WALK, CURB OR HEADER.
2. PVC LATERAL LINE.
3. POP-UP ROTARY SPRINKLER.
4. FINISH GRADE.
5. UNITIZED SWING JOINT: 3/4"-LASCO MODEL T732-212
   1"-LASCO MODEL T932-212.
6. SCHEDULE 40 PVC TEE OR ELBOW WITH THREADED OUTLET.

5 POP-UP ROTARY SPRINKLER - TURF
SCALE: NONE



1. ROUND CARSON #910 PLASTIC VALVE BOX WITH BOLT DOWN LID. TOP DIMENSION: 10".
2. QUICK COUPLING VALVE.
3. SET TOP OF VALVE BOX 2" ABOVE FINISH GRADE IN SHRUB BED AND 0" IN TURF.
4. PEA GRAVEL OR 3/4" [20mm] DRAIN ROCK - 4" [100mm] DEEP (NO SOIL IN VALVE BOX).
5. LANDSCAPE FILTER FABRIC. INSTALL AT BASE OF AND WRAP UP SIDE OF BOX.
6. BRICK-1 EACH CORNER.
7. SPEARS SWING JOINT ASSEMBLY 1" MT X MT 12 INCH. UPC APPROVED SCHEDULE 40 PVC TEE OR ELBOW.
8. 30" LONG #10 ANGLE IRON/RE-BAR W/2 STAINLESS STEEL STRAPS (ONE AROUND QCV).
9. 1" PVC MAIN LINE TO VALVE AND QCV.
10. GATE VALVE.
11. SCH 40 MALE ADAPTER.
12. 1" PVC MAIN LINE TO VALVE AND QCV.
13. 8" [200mm] CLASS 160 OR SCHEDULE 40 PVC PIPE (NOTCH TO FIT OVER MAIN LINE PIPE).

1 QUICK COUPLING WITH SHUTOFF FOR SYNTHETIC TURF MAINTENANCE (#5-LRC-1")
SCALE: NONE
DET: QUICK-CV

NO.	REVISION	BY	DATE

DESIGNED JB
DRAWN DM / JB
CHECKED JB
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS
SAN RAFAEL COUNTY OF MARIN CALIFORNIA

DRAWING NAME
IRRIGATION DETAILS

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING - URBAN DESIGN
SAN FRANCISCO OFFICE, 1550 BRYANT STREET, SUITE 850, SAN FRANCISCO, CA 94103
T 415.788.5176 www.tgasf.com

NOT FOR CONSTRUCTION

REGISTERED LANDSCAPE ARCHITECT
CHRISTOPHER A. GATES
No. 3362
6/30/2024
Renewal date
12/21/2023
LA
STATE OF CALIFORNIA

100% CDS

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE:
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: L3.50

May 08, 2024 - 3:53pm - USER jbradshaw
\\Vmsan\Company Data\2022\22-301 Pickleweed Park - San Rafael\CAD\100%CD_DC-IRR-PICKLEWEED Notes-Lg-Det.dwg

WATER USE ESTIMATION & IRRIGATION SCHEDULE - PICKLEWEED PARK CONTROLLER A

WATER TYPE	POTABLE
CITY	San Rafael
ETO	35.7
DATE	12/19/2023

Nearest City to project with published ET data

REGULAR LANDSCAPE AREAS

STATION/HYDROZONE	GPM	AREA (sq.ft) (HA)	WATER USE TYPE (LW=LOW, MW=MOD, HW=HIGH)	PLANT TYPE	IRRIGATION TYPE	PLANT FACTOR (PF)	IRRIGATION EFFICIENCY (IE)	PRECIP. RATE/ APPLICATION RATE (IN/HR)	ETAF (PF/IE)	CYCLES PER DAY	DAYS PER WEEK	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ETWU (GALLONS PER YEAR)	PERCENTAGE OF LANDSCAPE
												MONTHLY ETO													
												1.2	1.3	2.4	3.3	4.0	4.8	4.8	4.9	4.3	2.7	1.3	0.7		
												TOTAL RUN TIME IN MINUTES PER DAY													
A-18	2	320	LW	TREE LW	BUBBLER (TREE) 0.25 GPM	0.3	0.81	0.43	0.4	2	2	0.0	0.0	15.0	20.0	24.0	29.0	29.0	29.0	26.0	16.0	8.0	0.0	2,623	2%
A-19	6	814	LW	SHRUB GC LW	DRIP LINE 12"	0.3	0.81	0.9	0.4	2	2	0.0	0.0	7.0	10.0	12.0	14.0	14.0	14.0	12.0	8.0	4.0	0.0	6,673	6%
A-20	14	1631	LW	SHRUB GC LW	DRIP LINE 12"	0.3	0.81	0.9	0.4	2	2	0.0	0.0	7.0	10.0	12.0	14.0	14.0	14.0	12.0	8.0	4.0	0.0	13,371	12%
A-21	5	554	LW	SHRUB GC LW	DRIP LINE 12"	0.3	0.81	0.9	0.4	2	2	0.0	0.0	7.0	10.0	12.0	14.0	14.0	14.0	12.0	8.0	4.0	0.0	4,542	4%
A-22	20	2575	LW	BIOSWALE LW	ROTATING NOZZLES	0.3	0.75	0.6	0.4	2	2	0.0	0.0	11.0	15.0	19.0	22.0	22.0	23.0	20.0	13.0	6.0	0.0	22,798	19%
A-23	2	240	LW	TREE LW	BUBBLER (TREE) 0.25 GPM	0.3	0.81	0.43	0.4	2	2	0.0	0.0	15.0	20.0	24.0	29.0	29.0	29.0	26.0	16.0	8.0	0.0	1,967	2%
A-24	9	2045	LW	SHRUB GC LW	DRIP LINE 12"	0.3	0.81	0.9	0.4	2	2	0.0	0.0	7.0	10.0	12.0	14.0	14.0	14.0	12.0	8.0	4.0	0.0	16,764	15%
A-25	6	536	LW	SHRUB GC LW	DRIP LINE 12"	0.3	0.81	0.9	0.4	2	2	0.0	0.0	7.0	10.0	12.0	14.0	14.0	14.0	12.0	8.0	4.0	0.0	4,394	4%
A-26	11	1243	LW	SHRUB GC LW	DRIP LINE 12"	0.3	0.81	0.9	0.4	2	2	0.0	0.0	7.0	10.0	12.0	14.0	14.0	14.0	12.0	8.0	4.0	0.0	10,190	9%
A-27	6	960	LW	TREE LW	BUBBLER (TREE) 0.25 GPM	0.3	0.81	0.43	0.4	2	2	0.0	0.0	15.0	20.0	24.0	29.0	29.0	29.0	26.0	16.0	8.0	0.0	7,870	7%
A-28	14	1767	LW	SHRUB GC LW	BUBBLER (SHRUB)	0.3	0.81	1.91	0.4	2	2	0.0	0.0	4.0	5.0	6.0	7.0	7.0	7.0	6.0	4.0	2.0	0.0	14,485	13%
A-29	10	1100	LW	SHRUB GC LW	ROTATING NOZZLES	0.3	0.75	0.6	0.4	2	2	0.0	0.0	11.0	15.0	19.0	22.0	22.0	23.0	20.0	13.0	6.0	0.0	9,739	8%
																								0	0%
	TOTAL	13,785																					TOTAL	115,417	100%

SPECIAL LANDSCAPE AREAS

HYDROZONE #	HYDROZONE NAME	AREA (sq.ft) (HA)	Percentage of Landscape
			0%

MAWA	GALLONS/YR	137,303
	ACRE FEET/YR	0.42
	HCF/YR	183.56

ETWU	GALLONS/YR	115,417
	ACRE FEET/YR	0.35
	HCF/YR	154.30

SITE IRRIGATION EFFICIENCY	SITE PLANT FACTOR	MAWA COMPLIANT
39.1%	0.15	YES

ETAF Calculations	
REGULAR LANDSCAPE AREAS	
TOTAL ETAF x AREA	2,529
TOTAL AREA	13,785
AVG. ETAF	18.35%

THE IRRIGATION VALVE SCHEDULE SHOWN ABOVE IS INTENDED TO BE USED AS A GUIDELINE ONLY AND INDICATES THE APPROXIMATE RUN TIMES IN MINUTES FOR EACH VALVE BASED ON ESTIMATED WEEKLY WATER REQUIREMENTS FOR ESTABLISHED PLANT MATERIAL. THE TIMES SHOWN ARE APPROXIMATE AND HAVE BEEN DEVELOPED FROM LOCAL AND CURRENT AVERAGES FOR EVAPOTRANSPIRATION, AND REFLECTTHE WATER REQUIREMENTS OF THE PLANT MATERIAL BASED ON PLANT TYPE AND THE APPROXIMATE PRECIPITATION OR APPLICATION RATES OF THE IRRIGATION SYSTEM TYPE. 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, OVERALL PRECIPITATION RATE OF ZONE, ETC.

MAWA FORMULA

MAXIMUM APPLIED WATER ALLOWANCE (MAWA) GALLONS PER YEAR

MAWA = (ETo)(0.62)[(LA x 0.45) + (0.55 x SLA)]

ETo = REFERENCE EVAPOTRANSPIRATION

0.45= ET ADJUSTMENT FACTOR

LA=LANDSCAPED AREA (SQUARE FEET)
0.62 = CONVERSION FACTOR (GALLONS/SQ.FT/YR)

ETWU FORMULA

ESTIMATED TOTAL WATER USE (ETWU) GALLONS PER YEAR

ETWU= ((ETO)(.62)(ETAF x LA))

ETo = REFERENCE EVAPOTRANSPIRATION

PF = PLANT FACTOR FOR HYDROZONES

HA = HYDROZONE AREA (SQ.FT)
0.62 = CONVERSION FACTOR (GALLONS/SQ.FT/YR)

IE = IRRIGATION EFFICIENCY (0.81)-BUBBLER/DRIP

IE = IRRIGATION EFFICIENCY (0.75)-ROTORS/SPRAY

WATER USE ESTIMATION & IRRIGATION SCHEDULE - PICKLEWEED PARK CONTROLLER B

WATER TYPE	POTABLE
CITY	San Rafael
ETO	35.7
DATE	5/8/2024

Nearest City to project with published ET data

REGULAR LANDSCAPE AREAS

STATION/HYDROZONE	GPM	AREA (sq.ft) (HA)	WATER USE TYPE (LW=LOW, MW=MOD, HW=HIGH)	PLANT TYPE	IRRIGATION TYPE	PLANT FACTOR (PF)	IRRIGATION EFFICIENCY (IE)	PRECIP. RATE/ APPLICATION RATE (IN/HR)	ETAF (PF/IE)	CYCLES PER DAY	DAYS PER WEEK	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ETWU (GALLONS PER YEAR)	PERCENTAGE OF LANDSCAPE
												MONTHLY ETO													
												1.2	1.3	2.4	3.3	4.0	4.8	4.8	4.9	4.3	2.7	1.3	0.7		
												TOTAL RUN TIME IN MINUTES PER DAY													
B-25	30	3062	LW	SHRUB GC LW	ROTATING NOZZLES	0.3	0.75	0.6	0.4	2	2	0.0	0.0	11.0	15.0	19.0	22.0	22.0	23.0	20.0	13.0	6.0	0.0	27,110	18%
B-26	4	480	LW	TREE LW	BUBBLER (TREE) 0.25 GPM	0.3	0.81	0.43	0.4	2	2	0.0	0.0	15.0	20.0	24.0	29.0	29.0	29.0	26.0	16.0	8.0	0.0	3,935	3%
B-27	18	1175	LW	BIOSWALE LW	ROTATING NOZZLES	0.3	0.75	0.6	0.4	2	3	0.0	0.0	8.0	10.0	13.0	15.0	15.0	15.0	13.0	9.0	4.0	0.0	10,403	7%
B-28	20	1969	LW	SHRUB GC LW	ROTATING NOZZLES	0.3	0.75	0.6	0.4	2	2	0.0	0.0	11.0	15.0	19.0	22.0	22.0	23.0	20.0	13.0	6.0	0.0	17,433	12%
B-29	30	3020	LW	SHRUB GC LW	ROTATING NOZZLES	0.3	0.75	0.6	0.4	2	2	0.0	0.0	11.0	15.0	19.0	22.0	22.0	23.0	20.0	13.0	6.0	0.0	26,738	18%
B-30	20	1415	LW	BIOSWALE LW	ROTATING NOZZLES	0.3	0.75	0.6	0.4	2	3	0.0	0.0	8.0	10.0	13.0	15.0	15.0	15.0	13.0	9.0	4.0	0.0	12,528	8%
B-31	14	1654	LW	SHRUB GC LW	ROTATING NOZZLES	0.3	0.75	0.6	0.4	2	2	0.0	0.0	11.0	15.0	19.0	22.0	22.0	23.0	20.0	13.0	6.0	0.0	14,644	10%
B-32	2	160	LW	TREE LW	BUBBLER (TREE) 0.25 GPM	0.3	0.81	0.43	0.4	2	2	0.0	0.0	15.0	20.0	24.0	29.0	29.0	29.0	26.0	16.0	8.0	0.0	1,312	1%
B-33	12	1442	LW	SHRUB GC LW	BUBBLER (SHRUB)	0.3	0.81	1.91	0.4	2	2	0.0	0.0	4.0	5.0	6.0	7.0	7.0	7.0	6.0	4.0	2.0	0.0	11,821	9%
B-34	28	980	HW	TURF HW	SPRAY	0.7	0.75	1.6	0.9	2	4	0.0	0.0	5.0	7.0	8.0	10.0	10.0	10.0	9.0	6.0	3.0	0.0	20,245	6%
B-35	29	766	HW	TURF HW	SPRAY	0.7	0.75	1.6	0.9	2	4	0.0	0.0	5.0	7.0	8.0	10.0	10.0	10.0	9.0	6.0	3.0	0.0	15,824	5%
B-36	22	766	HW	TURF HW	SPRAY	0.7	0.75	1.6	0.9	2	4	0.0	0.0	5.0	7.0	8.0	10.0	10.0	10.0	9.0	6.0	3.0	0.0	15,824	5%
																								0	0%
	TOTAL	16,889																					TOTAL	177,817	100%

SPECIAL LANDSCAPE AREAS

HYDROZONE #	HYDROZONE NAME	AREA (sq.ft) (HA)	Percentage of Landscape
1	TURF	2512	15%

MAWA	GALLONS/YR	198,800
	ACRE FEET/YR	0.61
	HCF/YR	265.78

ETWU	GALLONS/YR	177,817
	ACRE FEET/YR	0.55
	HCF/YR	237.72

SITE IRRIGATION EFFICIENCY	SITE PLANT FACTOR	MAWA COMPLIANT
37.5%	0.15	YES

ETAF Calculations	
REGULAR LANDSCAPE AREAS	
TOTAL ETAF x AREA	3,254
TOTAL AREA	16,889
AVG. ETAF	19.26%

THE IRRIGATION VALVE SCHEDULE SHOWN ABOVE IS INTENDED TO BE USED AS A GUIDELINE ONLY AND INDICATES THE APPROXIMATE RUN TIMES IN MINUTES FOR EACH VALVE BASED ON ESTIMATED WEEKLY WATER REQUIREMENTS FOR ESTABLISHED PLANT MATERIAL. THE TIMES SHOWN ARE APPROXIMATE AND HAVE BEEN DEVELOPED FROM LOCAL AND CURRENT AVERAGES FOR EVAPOTRANSPIRATION, AND REFLECTTHE WATER REQUIREMENTS OF THE PLANT MATERIAL BASED ON PLANT TYPE AND THE APPROXIMATE PRECIPITATION OR APPLICATION RATES OF THE IRRIGATION SYSTEM TYPE. 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, OVERALL PRECIPITATION RATE OF ZONE, ETC.

MAWA FORMULA

MAXIMUM APPLIED WATER ALLOWANCE (MAWA) GALLONS PER YEAR

MAWA = (ETo)(0.62)[(LA x 0.45) + (0.55 x SLA)]

ETo = REFERENCE EVAPOTRANSPIRATION

0.45= ET ADJUSTMENT FACTOR

LA=LANDSCAPED AREA (SQUARE FEET)
0.62 = CONVERSION FACTOR (GALLONS/SQ.FT/YR)

ETWU FORMULA

ESTIMATED TOTAL WATER USE (ETWU) GALLONS PER YEAR

ETWU= ((ETO)(.62)(ETAF x LA))

ETo = REFERENCE EVAPOTRANSPIRATION

PF = PLANT FACTOR FOR HYDROZONES

HA = HYDROZONE AREA (SQ.FT)
0.62 = CONVERSION FACTOR (GALLONS/SQ.FT/YR)

IE = IRRIGATION EFFICIENCY (0.81)-BUBBLER/DRIP

IE = IRRIGATION EFFICIENCY (0.75)-ROTORS/SPRAY

NO.	REVISION	BY	DATE

DESIGNED JB
DRAWN DM / JB
CHECKED JB
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
IRRIGATION WATER USE CALCS

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING - URBAN DESIGN
SAN FRANCISCO, OAKLAND, SACRAMENTO, SAN DIEGO
T 510.750.6176 www.gates.asso

NOT FOR CONSTRUCTION

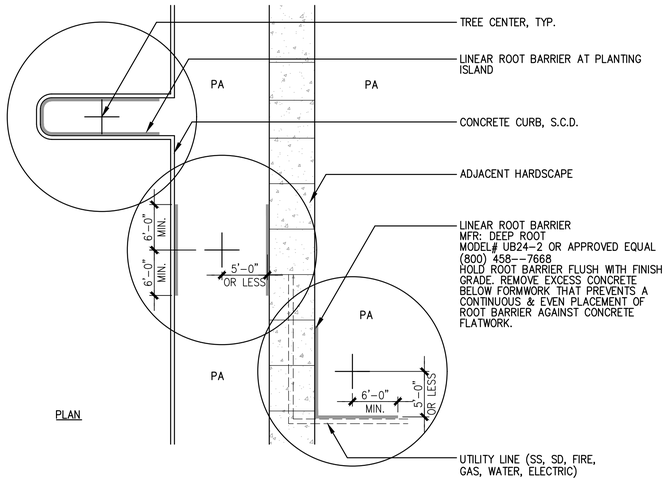
REGISTERED LANDSCAPE ARCHITECT
CHRIS GATES No. 5302
5/10/2024
12/21/2023
STATE OF CALIFORNIA

100% CDS

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE:
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: L3.60

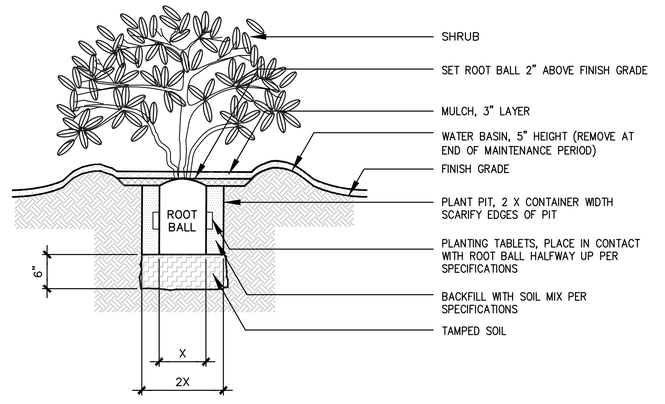
May 08, 2024 - 3:54pm - USER jbradshaw
\\Vmsan\Company Data\2022\22-301 Pickleweed Park - San Rafael\CAD\100%CD_DG-IRR-PICKLEWEED Notes-Lg-Det.dwg



PLAN

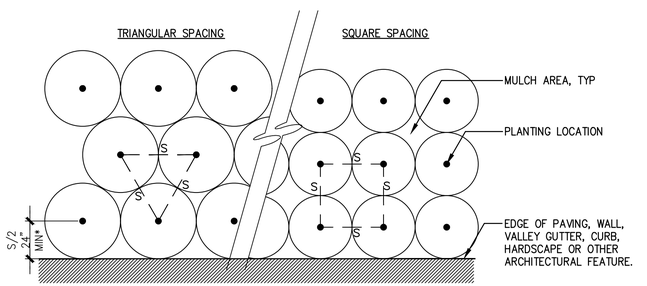
4 LINEAR ROOT BARRIER

SCALE: 1" = 10'-0"



2 SHRUB PLANTING

SCALE: NTS



NOTES:

A. S = PLANT SPACING DISTANCE ON CENTER, SEE CHART.
B. FOR USE AS A GUIDE FOR SHRUBS AND GROUNDCOVER WHEN PLANTS ARE SPACED EQUIDISTANT FROM EACH OTHER.

*AT ALL SHRUB AND GROUNDCOVER LOCATIONS WHERE SPRAY IRRIGATION IS USED. HOLD PLANTING 24" CLEAR OF CURB LINE IN CONJUNCTION WITH IRRIGATION PER AB 1881.

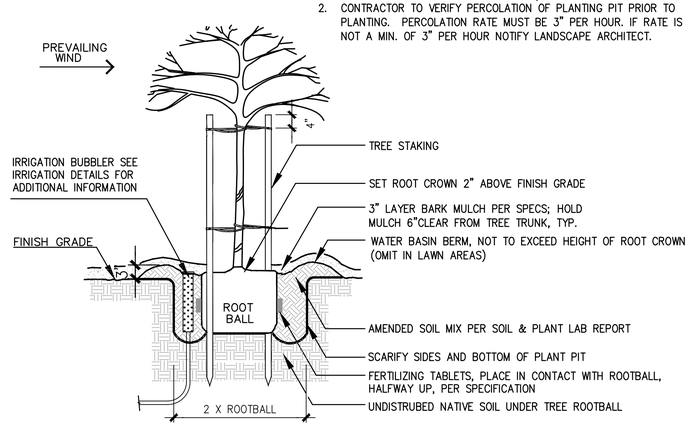
Plant Quantity Chart	
Spacing	# of Plants/S.F.
6" o.c.	4.60
8" o.c.	2.60
12" o.c.	1.15
18" o.c.	.512
24" o.c.	.290
30" o.c.	.185
36" o.c.	.128
42" o.c.	.087
48" o.c.	.063

3 PLANT SPACING

SCALE: 1"=1'-0"

NOTES:

1. ROOT CONTROL BARRIER MUST BE USED IF TREE IS PLANTED WITHIN 5' OF CURB OR SIDEWALK. SEE DETAIL, THIS SHEET
2. CONTRACTOR TO VERIFY PERCOLATION OF PLANTING PIT PRIOR TO PLANTING. PERCOLATION RATE MUST BE 3" PER HOUR. IF RATE IS NOT A MIN. OF 3" PER HOUR NOTIFY LANDSCAPE ARCHITECT.



1 TREE PLANTING

SCALE: 3/8" = 1'-0"

NO.	REVISION	BY	DATE

DESIGNED MR / SW
DRAWN SW / MM
CHECKED MR
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
LANDSCAPE CONSTRUCTION DETAILS - PLANTING
SAN RAFAEL COUNTY OF MARIN CALIFORNIA

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING - URBAN DESIGN

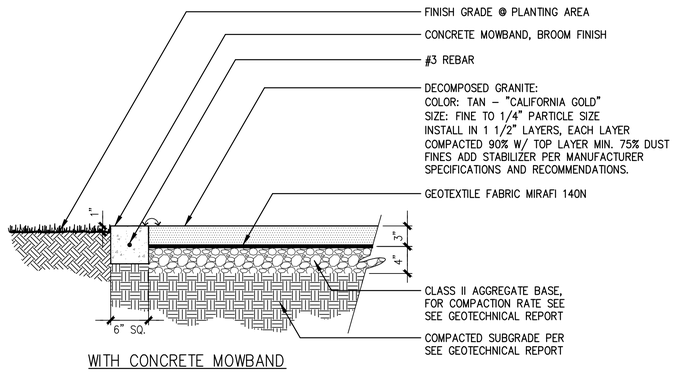
NOT FOR CONSTRUCTION

REGISTERED LANDSCAPE ARCHITECT
CASEY GATES No. 5050
Signed 6/20/2024
Issued Date 12/21/2023
For LA
STATE OF CALIFORNIA

100% CDS
CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE: AS SHOWN
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: L4.10

May 13, 2024 - 4:42pm - USER illion
P:\san rafael\p0019 & p0114_pickleweed park\CAD\Sheets_DG-D-PICKLEWEED PARK.DWG

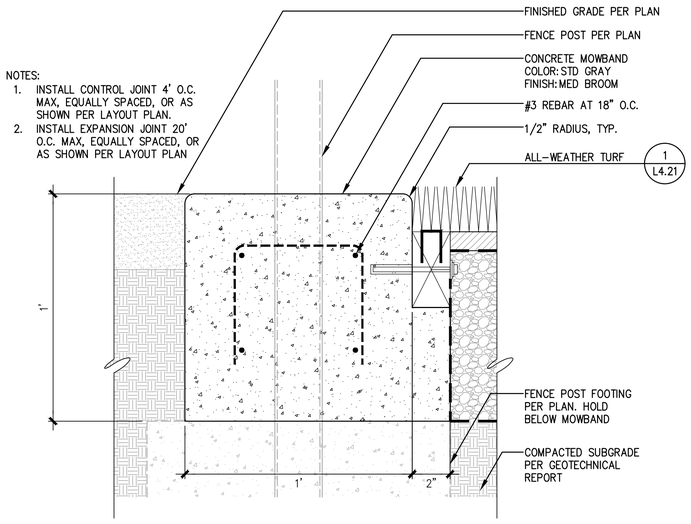


WITH CONCRETE MOWBAND

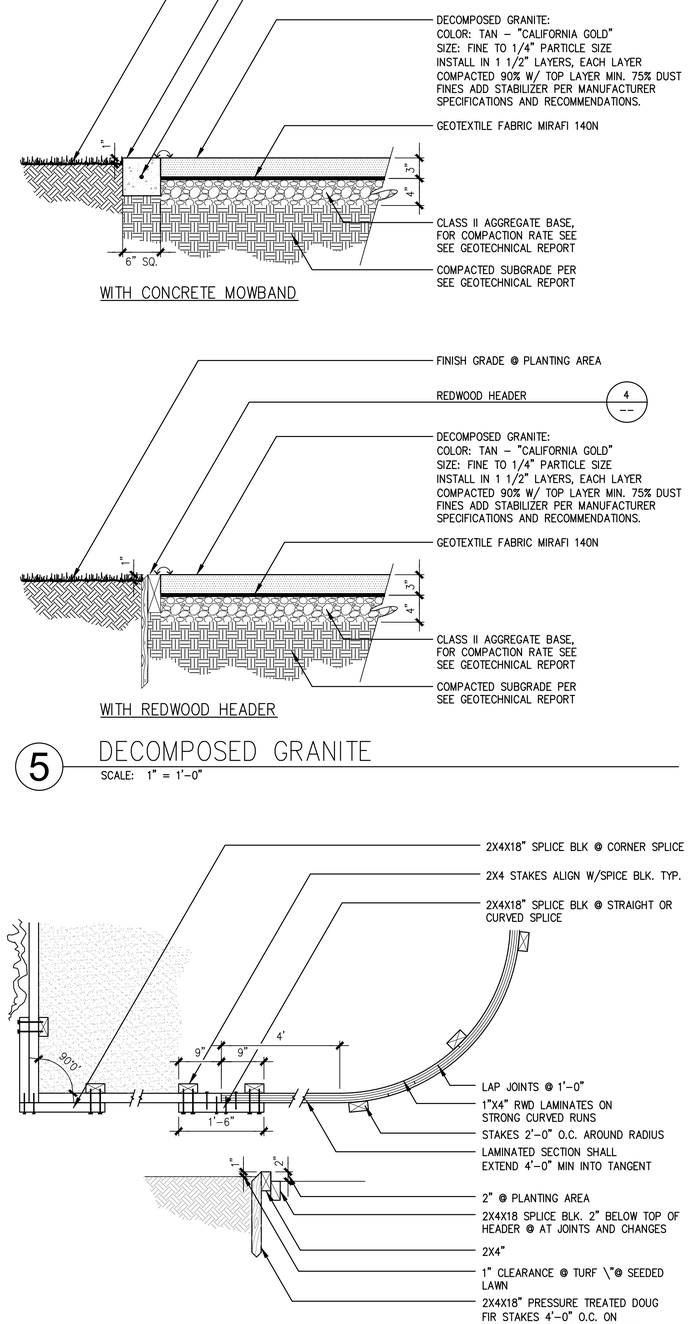
WITH REDWOOD HEADER

5 DECOMPOSED GRANITE

SCALE: 1" = 1'-0"

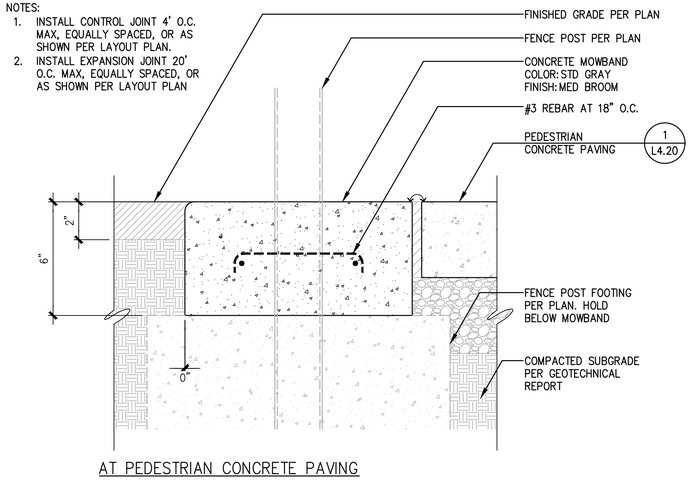


AT ALL-WEATHER TURF



4 REDWOOD HEADER

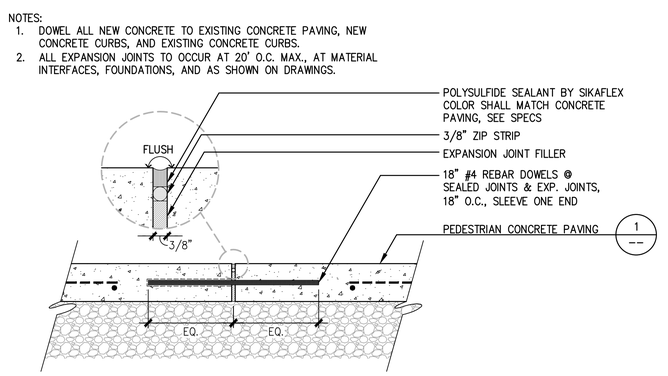
SCALE: 3/4" = 1'-0"



AT PEDESTRIAN CONCRETE PAVING

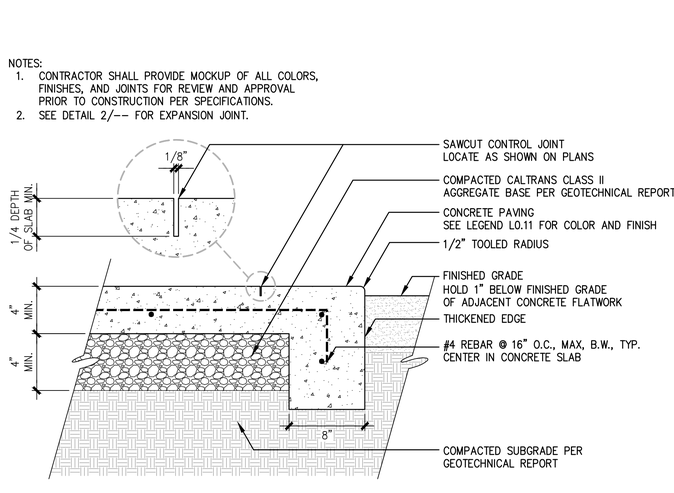
3 CONCRETE MOWBAND

SCALE: 3" = 1'-0"



2 EXPANSION JOINT AT CONCRETE PAVING

SCALE: 1-1/2" = 1'-0"



1 PEDESTRIAN CONCRETE PAVING

SCALE: 1-1/2" = 1'-0"

NO.	REVISION	BY	DATE

DESIGNED MR / SW
DRAWN SW / MM
CHECKED MR
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
LANDSCAPE CONSTRUCTION DETAILS - PAVING

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING - URBAN DESIGN
T 925.756.0178 www.gatesassoc.com

NOT FOR CONSTRUCTION

REGISTERED LANDSCAPE ARCHITECT
CHRISTY GATES No. 5048
Expires 6/30/2024
Issued 12/21/2023
STATE OF CALIFORNIA

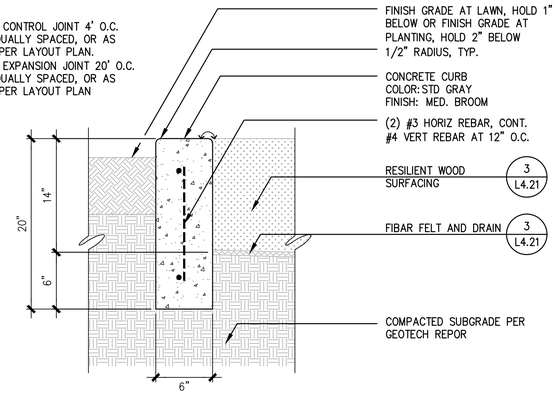
100% CDS

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE: AS SHOWN
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: L4.20

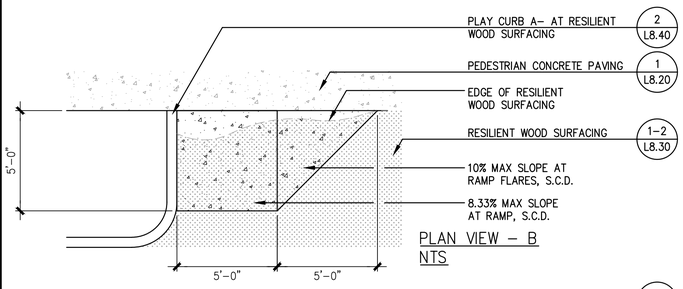
May 13, 2024 - 4:42pm - USER: lillian
P:\san rafael\p6019 & p6114_pickleweed park\ACAD\Sheets_Dtl-D-PICKLEWEED PARK.DWG

NOTES:
1. INSTALL CONTROL JOINT 4' O.C. MAX, EQUALLY SPACED, OR AS SHOWN PER LAYOUT PLAN.
2. INSTALL EXPANSION JOINT 20' O.C. MAX, EQUALLY SPACED, OR AS SHOWN PER LAYOUT PLAN

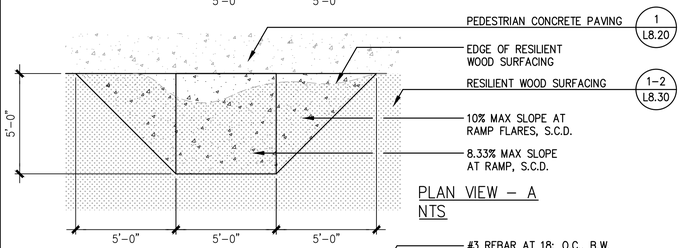


5 PLAY CURB AT RESILIENT WOOD SURFACING

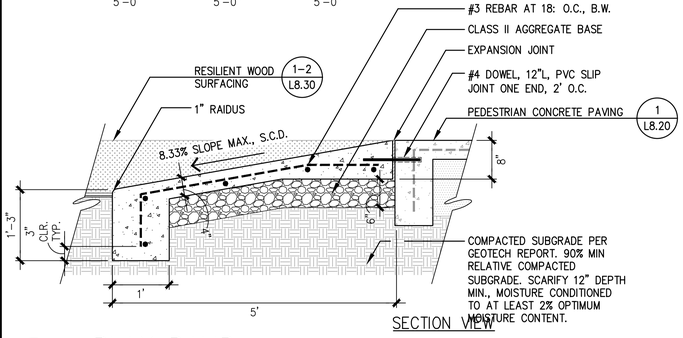
SCALE: 1-1/2" = 1'-0"



PLAN VIEW - B
NTS



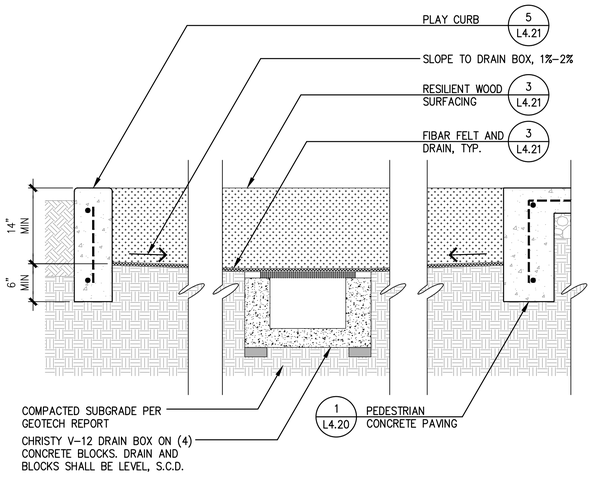
PLAN VIEW - A
NTS



SECTION VIEW

6 PLAY RAMP

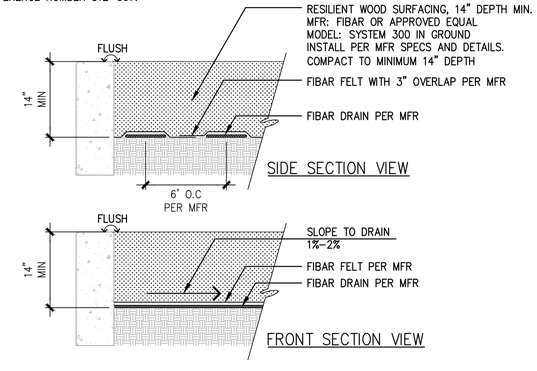
SCALE: 3/4" = 1'-0"



4 DRAIN UNDER RESILIENT WOOD SURFACING

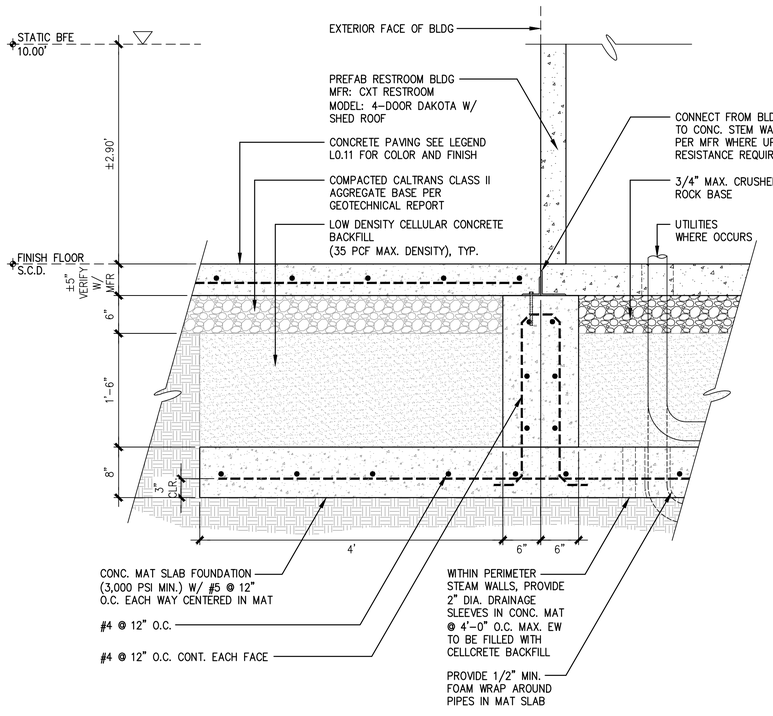
SCALE: 1" = 1'-0"

NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
2. DO NOT SCALE DRAWINGS, FOR ILLUSTRATION PURPOSES ONLY.
3. THE FIBAR SYSTEM IS PROTECTED BY US PATENTS 4679963, 5026207, 5076726 AND PATENTS PENDING.
4. AWARD CONTRACTORS MUST OBTAIN A LICENSE FROM FIBAR, INC. PRIOR TO CONSTRUCTION.
5. FIBARMAT WEAR MATS MUST BE INSTALLED UNDER ALL SWINGS, TIRE SWINGS & SLIDE EXITS TO PRESERVE WARRANTY. SEE 312-002.
6. CONTRACTORS NOTE: FOR PRODUCT AND PURCHASING INFORMATION VISIT www.CADdetails.com/info REFERENCE NUMBER 312-007.



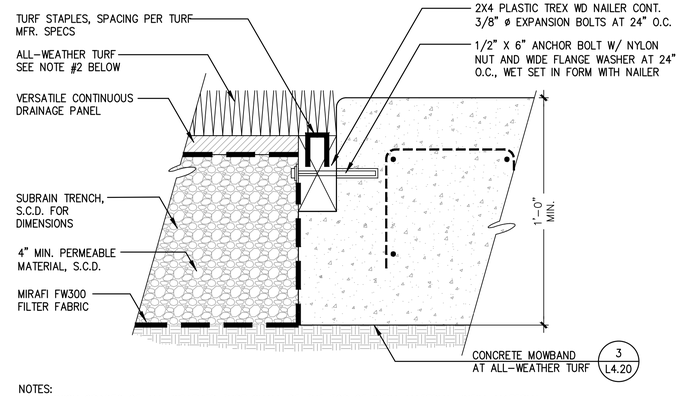
3 RESILIENT WOOD SURFACING

SCALE: N.T.S.



2 PREFAB RESTROOM FOUNDATION

SCALE: 1" = 1'-0"



NOTES:
1. FINISH GRADES OF ALL-WEATHER TURF SHALL BE THE TOP OF INFILL MATERIAL. INFILL MATERIAL SHALL BE A MINIMUM OF 1/4" BELOW AND 1/2" MAXIMUM ADJACENT SURFACES.
2. ALL-WEATHER TURF PRODUCTS:
   - SOCCER FIELD WILL BE FIELDTURF REVOLUTION 360, FTRV360-2 PUREFILL WITH VERSATILE
   - BASEBALL FIELD WILL BE FTHD-2-PUREFILL WITH VERSATILE

1 ALL-WEATHER TURF

SCALE: 3" = 1'-0"

NO.	REVISION	BY	DATE

DESIGNED MR / SW
DRAWN SW / MM
CHECKED MR
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS
SAN RAFAEL COUNTY OF MARIN CALIFORNIA

DRAWING NAME
LANDSCAPE CONSTRUCTION DETAILS - PAVING

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING - URBAN DESIGN

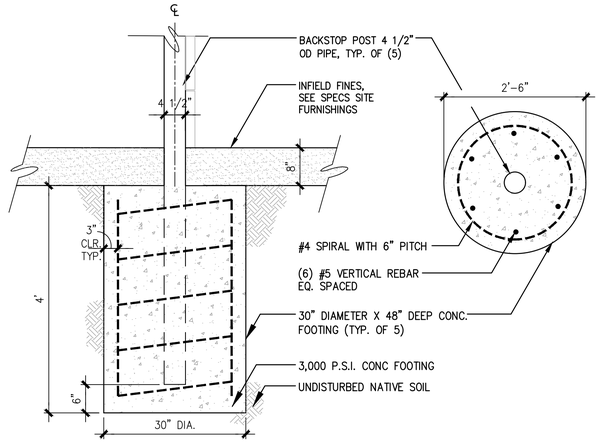
NOT FOR CONSTRUCTION

REGISTERED LANDSCAPE ARCHITECT CHRIS GATES No. 5000 5/20/2024 12/31/2023 CA STATE OF CALIFORNIA

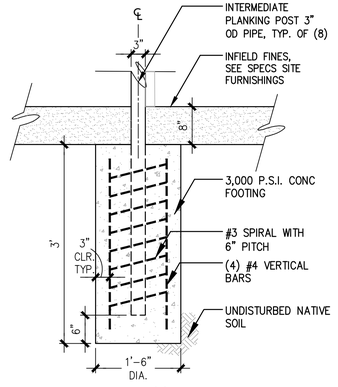
100% CDS
CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE: AS SHOWN
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: L4.21

May 14, 2024 - 3:41pm - USER milani
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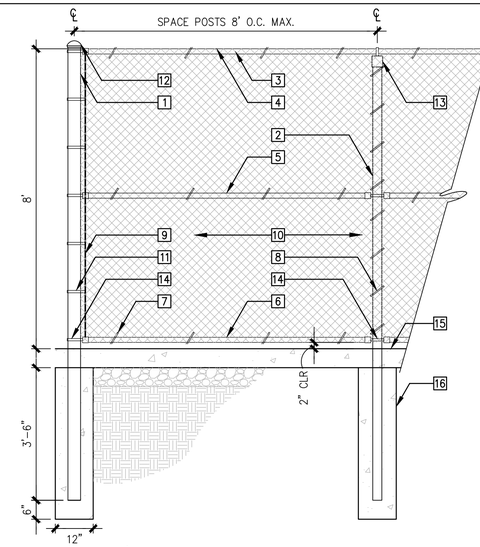
BACKSTOP POST 'A'
4 1/2" OD PIPE



BACKSTOP POST 'B'
3" OD PIPE

5 BACKSTOP POST CONCRETE FOOTING

SCALE: 3/4" = 1'-0"



KEY:
1. END POST, 3-1/2" O.D., SCH. 40
2. LINE POST, 2-3/8" O.D., SCH. 40
3. TOP RAIL, 1-5/8" O.D., SCH. 40
4. KNUCKLE SELVAGE TOP AND BOTTOM
5. MID RAIL, 1-5/8" O.D. SCH. 40
6. BOTTOM RAIL, 1-5/8" O.D. SCH. 40
7. TIE WIRES, 9 GA @ 24" O.C. @ RAILS
8. TIE WIRES, 9 GA @ 12" O.C. @ LINE POSTS
9. TENSION BAR @ ALL END POSTS, CORNER & GATE POSTS
10. CHAIN LINK FENCE FABRIC, 9 GA 1" MESH
11. TENSION BAND @ 15" O.C.
12. BALL POST CAP *
13. LINE POST W/ LOOP CAP *
14. BRACE BAND W/ RAIL END OR ENDS *
15. CONCRETE MOWBAND, SEE DETAIL 3/L4.20
16. CONCRETE FOOTING, 3000 PSI

* COMPRESSION TYPE GALV. METAL FITTING WITH BLACK VINYL CLADDING. SIZED TO MATCH RAIL, END POST, AND LINE POST DIMENSIONS.

NOTE:
1. SEE DETAIL 1/-- FOR CHAIN LINK FENCE GENERAL NOTES.

3 8' HT. CHAIN LINK FENCE

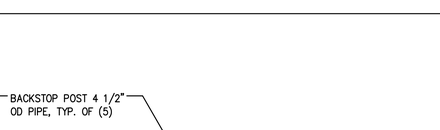
SCALE: 1/2" = 1'-0"

GENERAL NOTES

1. REFER TO CHAIN LINK FENCES AND GATES PROJECT SPECIFICATION SECTION 32 31 13 FOR FENCING MATERIALS ASTM SPECIFICATION NUMBERS. ALL FENCING MATERIALS, INCLUDING ALL POSTS, RAILS, CAPS, & FABRIC TO BE GALVANIZED AND VINYL COATED BLACK PER SPECIFICATION SECTION 32 31 13.
2. REFER TO CHAIN LINK FENCES AND GATES SPECIFICATION SECTION 32 31 13 FOR CHAIN LINK FENCE INSTALLATION PROCEDURES FOR POSTS, RAILS, FASTENERS, AND MESH FABRIC TIE WIRES.

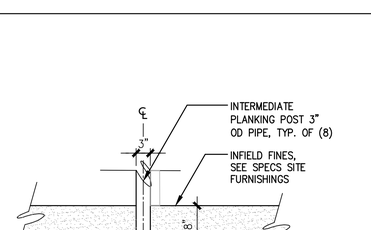
KEY:
1. END POST, 4-1/2" O.D.
2. INTERMEDIATE POST, 3" O.D.
3. TOP RAIL, 1-5/8" O.D.
4. MID RAIL, 1-5/8" O.D.
5. BOTTOM RAIL, 3" O.D.
6. TIE WIRES, 9 GA @ 24" O.C. @ RAILS
7. TENSION BAR @ ALL END POSTS, CORNER POSTS, & GATE POSTS
8. CHAINLINK FENCE FABRIC, 9 GA 1-3/4" MESH O.D. PIPE
9. TENSION BAND @ 15" O.C.
10. BALL POST CAP *
11. LINE POST W/ LOOP CAP *
12. BRACE BAND W/ RAIL END OR ENDS *

* COMPRESSION TYPE GALV. METAL FITTING WITH BLACK VINYL CLADDING. SIZED TO MATCH RAIL, END POST,A ND LINE POST DIMENSIONS.

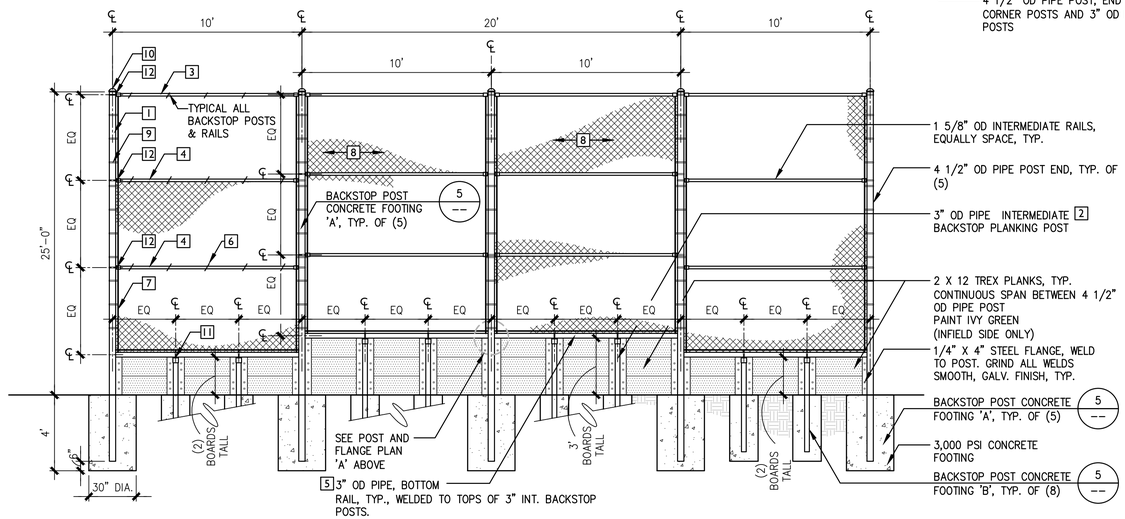


OVERALL PLAN
SCALE: 1/2"=1'-0"

BACKSIDE

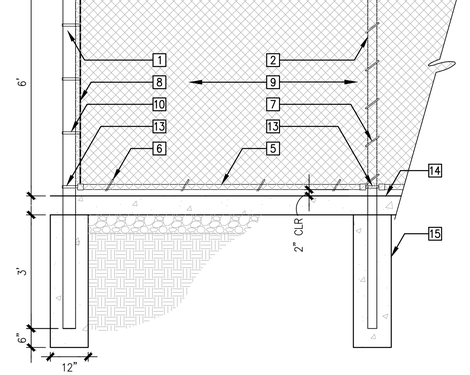


A POST AND FLANGE PLAN ENLARGEMENT
SCALE: 1/16"=1'-0"



4 BASEBALL BACKSTOP – ELEVATION FROM BACKSIDE

SCALE: N.T.S.



KEY:
1. END POST, 3-1/2" O.D., SCH. 40
2. LINE POST, 2-3/8" O.D., SCH. 40
3. TOP RAIL, 1-5/8" O.D., SCH. 40
4. KNUCKLE SELVAGE TOP AND BOTTOM
5. BOTTOM RAIL, 1-5/8" O.D. SCH. 40
6. TIE WIRES, 9 GA @ 24" O.C. @ RAILS
7. TIE WIRES, 9 GA @ 12" O.C. @ LINE POSTS
8. TENSION BAR @ ALL END POSTS, CORNER & GATE POSTS
9. CHAIN LINK FENCE FABRIC, 9 GA 1-3/4" MESH
10. TENSION BAND @ 15" O.C.
11. BALL POST CAP *
12. LINE POST W/ LOOP CAP *
13. BRACE BAND W/ RAIL END OR ENDS *
14. CONCRETE MOWBAND, SEE DETAIL 3/L4.20
15. CONCRETE FOOTING, 3000 PSI

* COMPRESSION TYPE GALV. METAL FITTING WITH BLACK VINYL CLADDING. SIZED TO MATCH RAIL, END POST, AND LINE POST DIMENSIONS.

NOTE:
1. SEE DETAIL 1/-- FOR CHAIN LINK FENCE GENERAL NOTES.

2 6' HT. CHAIN LINK FENCE

SCALE: 1/2" = 1'-0"

1. REFER TO CHAIN LINK FENCES AND GATES PROJECT SPECIFICATION SECTION 32 31 13 FOR FENCING MATERIALS ASTM SPECIFICATION NUMBERS AND INSTALLATION PROCEDURES, FOR POSTS, RAILS, GATES, FASTENERS, AND FABRIC.
2. ALL FENCING MATERIAL, POST, RAILS, CAPS, FABRIC TO BE HOT DIPPED/GALVENIZED PER SECTION 32 31 13.
3. ALL FENCES/GATES HARDWARE TO BE VINYL COATED BLACK.
4. OFFSET HINGES TO PERMIT 180 DEGREE GATE OPENING.
5. CAP ALL ENDS.
6. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.

1 CHAIN LINK FENCE & GATE NOTES

SCALE: N.T.S.

NO.	REVISION	BY	DATE

DESIGNED MR / SW
DRAWN SW / MM
CHECKED MR
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
LANDSCAPE CONSTRUCTION DETAILS - FENCING AND GATES

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING - URBAN DESIGN
SAN FRANCISCO BAY AREA, MOUNTAIN REGION
T 925.746.8778 www.gatesassociates.com

NOT FOR CONSTRUCTION

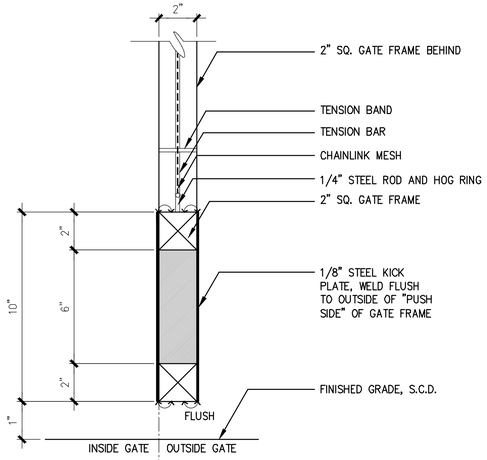
REGISTERED LANDSCAPE ARCHITECT CHRIS GATES No. 5026 Expires 6/30/2024 Date Signed 12/21/2023 LA. STATE OF CALIFORNIA

100% CDS

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE: AS SHOWN
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: L4.30

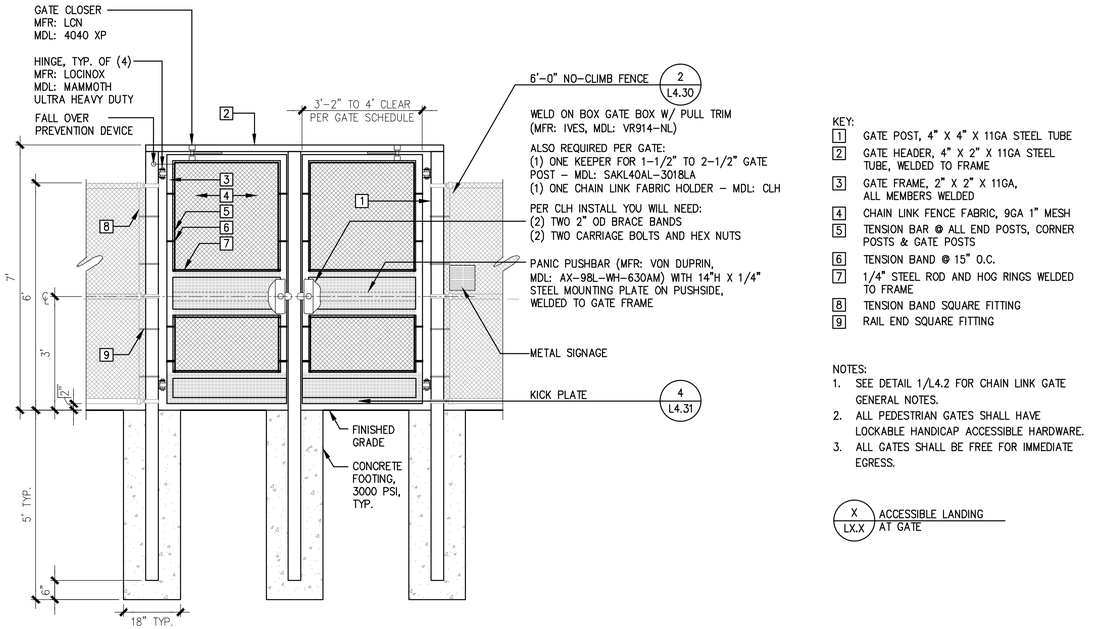
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KICK PLATE AT CHAIN LINK GATES

4 KICK PLATE

SCALE: 1/2" = 1'-0"



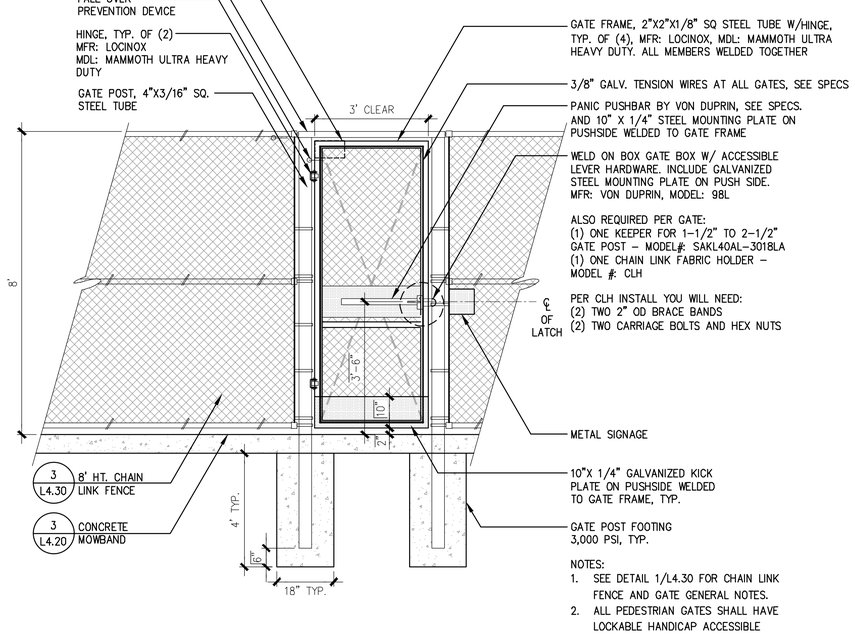
KEY:
1. GATE POST, 4" X 4" X 11GA STEEL TUBE
2. GATE HEADER, 4" X 2" X 11GA STEEL TUBE, WELDED TO FRAME
3. GATE FRAME, 2" X 2" X 11GA, ALL MEMBERS WELDED
4. CHAIN LINK FENCE FABRIC, 9GA 1" MESH
5. TENSION BAR @ ALL END POSTS, CORNER POSTS & GATE POSTS
6. TENSION BAND @ 15" O.C.
7. 1/4" STEEL ROD AND HOG RINGS WELDED TO FRAME
8. TENSION BAND SQUARE FITTING
9. RAIL END SQUARE FITTING

NOTES:
1. SEE DETAIL 1/L4.2 FOR CHAIN LINK GATE GENERAL NOTES.
2. ALL PEDESTRIAN GATES SHALL HAVE LOCKABLE HANDICAP ACCESSIBLE HARDWARE.
3. ALL GATES SHALL BE FREE FOR IMMEDIATE EGRESS.

X / LX.X ACCESSIBLE LANDING AT GATE

2 6' H CHAIN LINK FENCE AND 7' H DOUBLE PEDESTRIAN GATE

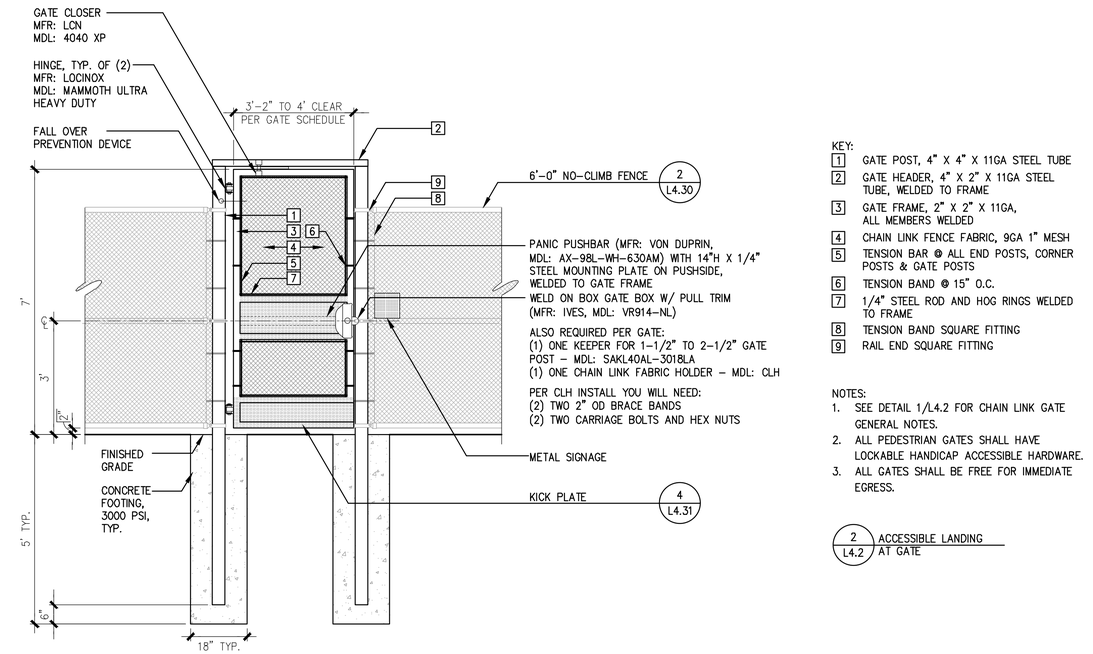
SCALE: 1/2" = 1'-0"



NOTES:
1. SEE DETAIL 1/L4.30 FOR CHAIN LINK FENCE AND GATE GENERAL NOTES.
2. ALL PEDESTRIAN GATES SHALL HAVE LOCKABLE HANDICAP ACCESSIBLE HARDWARE.
3. ALL GATES SHALL BE FREE FOR IMMEDIATE EGRESS.

3 8' HT. SINGLE GATE

SCALE: 1/2" = 1'-0"



KEY:
1. GATE POST, 4" X 4" X 11GA STEEL TUBE
2. GATE HEADER, 4" X 2" X 11GA STEEL TUBE, WELDED TO FRAME
3. GATE FRAME, 2" X 2" X 11GA, ALL MEMBERS WELDED
4. CHAIN LINK FENCE FABRIC, 9GA 1" MESH
5. TENSION BAR @ ALL END POSTS, CORNER POSTS & GATE POSTS
6. TENSION BAND @ 15" O.C.
7. 1/4" STEEL ROD AND HOG RINGS WELDED TO FRAME
8. TENSION BAND SQUARE FITTING
9. RAIL END SQUARE FITTING

NOTES:
1. SEE DETAIL 1/L4.2 FOR CHAIN LINK GATE GENERAL NOTES.
2. ALL PEDESTRIAN GATES SHALL HAVE LOCKABLE HANDICAP ACCESSIBLE HARDWARE.
3. ALL GATES SHALL BE FREE FOR IMMEDIATE EGRESS.

2 / L4.2 ACCESSIBLE LANDING AT GATE

1 6' H CHAIN LINK FENCE AND 7' H SINGLE PEDESTRIAN GATE

SCALE: 1/2" = 1'-0"

NO.	REVISION	BY	DATE

DESIGNED MR / SW
DRAWN SW / MM
CHECKED MR
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
LANDSCAPE CONSTRUCTION DETAILS - FENCING AND GATES

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING · URBAN DESIGN
T 707.778.8175 www.gates.com

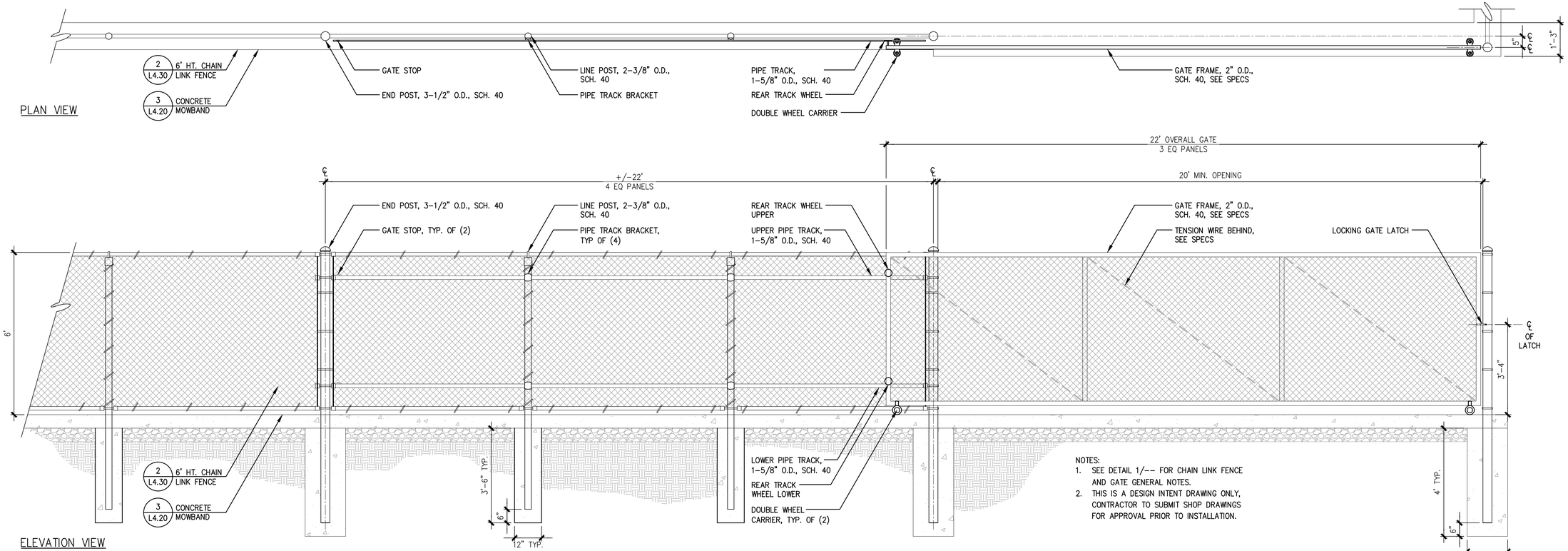
NOT FOR CONSTRUCTION

REGISTERED LANDSCAPE ARCHITECT CHRIS GATES No. 6242 Signed 6/30/2024 Renewal Date 12/31/2025 L.A. STATE OF CALIFORNIA

100% CDS

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE: AS SHOWN
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: L4.31



1 6' HT. X 20' W. CHAIN LINK ROLLING GATE

SCALE: 1/2" = 1'-0"

NO.	REVISION	BY	DATE

DESIGNED MR / SW
DRAWN SW / MM
CHECKED MR
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
LANDSCAPE CONSTRUCTION DETAILS - FENCING AND GATES

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING - URBAN DESIGN

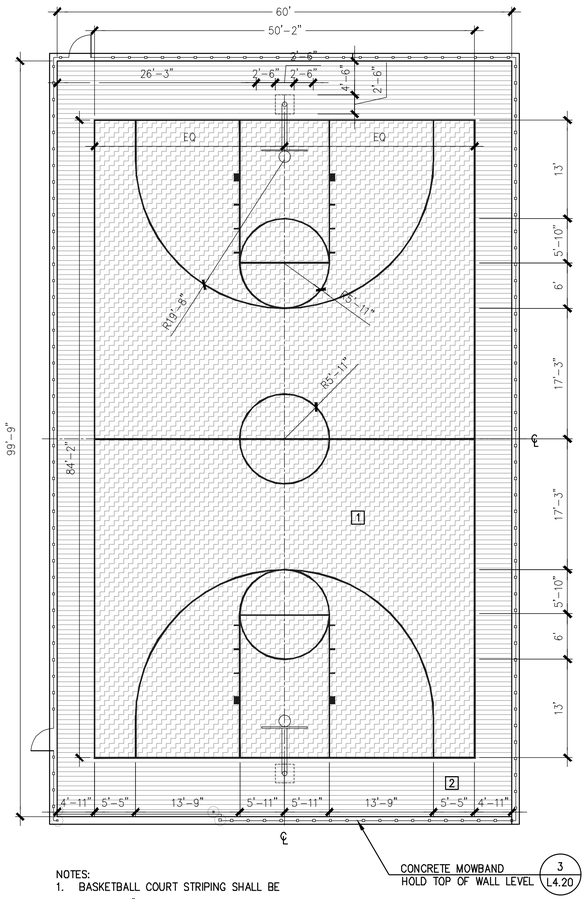
NOT FOR CONSTRUCTION

REGISTERED LANDSCAPE ARCHITECT
CASEY GATES - No. 6065
Expires 6/30/2024
Renewal Due 12/31/2025
LA
STATE OF CALIFORNIA

100% CDS
CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE: AS SHOWN
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: L4.32

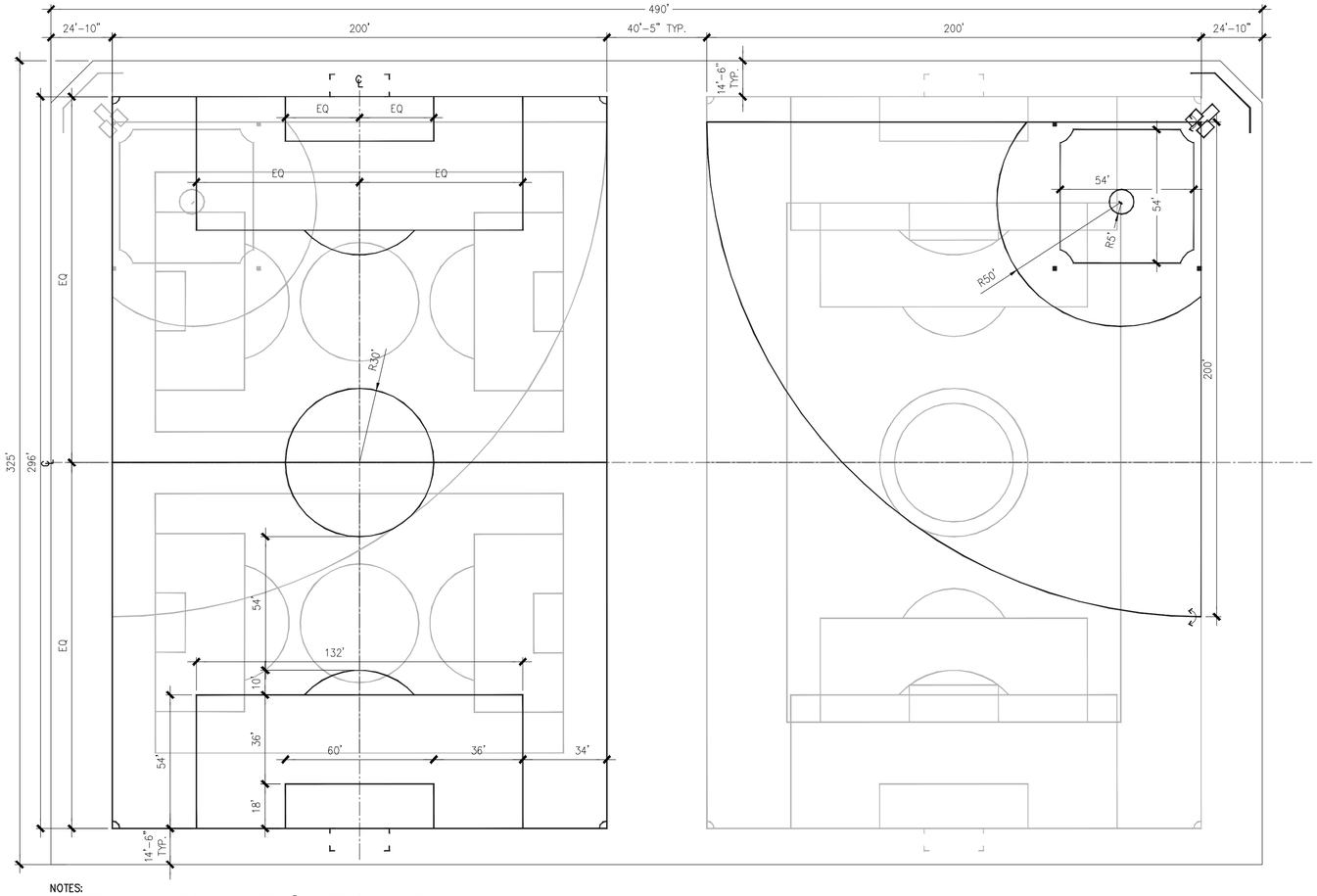
May 13, 2024 - 4:43pm - USER illion
P:\san rafael\p6019 & p6114_pickleweed park\ACAD\Sheets_DG-D-PICKLEWEED PARK.DWG



NOTES:
1. BASKETBALL COURT STRIPING SHALL BE PAINTED 2" WIDE WHITE LINES.
2. BASKETBALL COURT SHALL BE PAINTED WITH CALIFORNIA SPORTS SURFACES STREETBOND SB150 OR APPROVED EQUAL.
3. LAYOUT IS FOR DESIGN INTENT ONLY. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR REVIEW AND ACCEPTANCE BY THE OWNER.

COLOR KEY:
1 PEWTER
2 SAFETY RED

2 BASKETBALL COURT STRIPING
SCALE: 1" = 10'-0"



NOTES:
1. SOCCER FIELD STRIPING SHALL BE TUFTED 4" WIDE COLORED LINES. COLOR IN ACCORDANCE WITH MANUFACTURER STANDARD TURF COLORS.
2. LAYOUT IS FOR DESIGN INTENT ONLY. MANUFACTURER TO PROVIDE SHOP DRAWINGS FOR REVIEW AND ACCEPTANCE BY THE OWNER. ALL FIELD MARKINGS SHALL CONFORM TO CURRENT NFHS AND C.I.F. (CALIFORNIA INTERSCHOLASTIC FEDERATION) GUIDELINES.

1 ALL-WEATHER TURF SPORTS FIELDS STRIPING
SCALE: 1" = 30'-0"

NO.	REVISION	BY	DATE

DESIGNED MR / SW
DRAWN SW / MM
CHECKED MR
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS
SAN RAFAEL COUNTY OF MARIN CALIFORNIA

DRAWING NAME
LANDSCAPE CONSTRUCTION DETAILS - STRIPING LAYOUT

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING · URBAN DESIGN
T 510.236.6174 www.gatesla.com

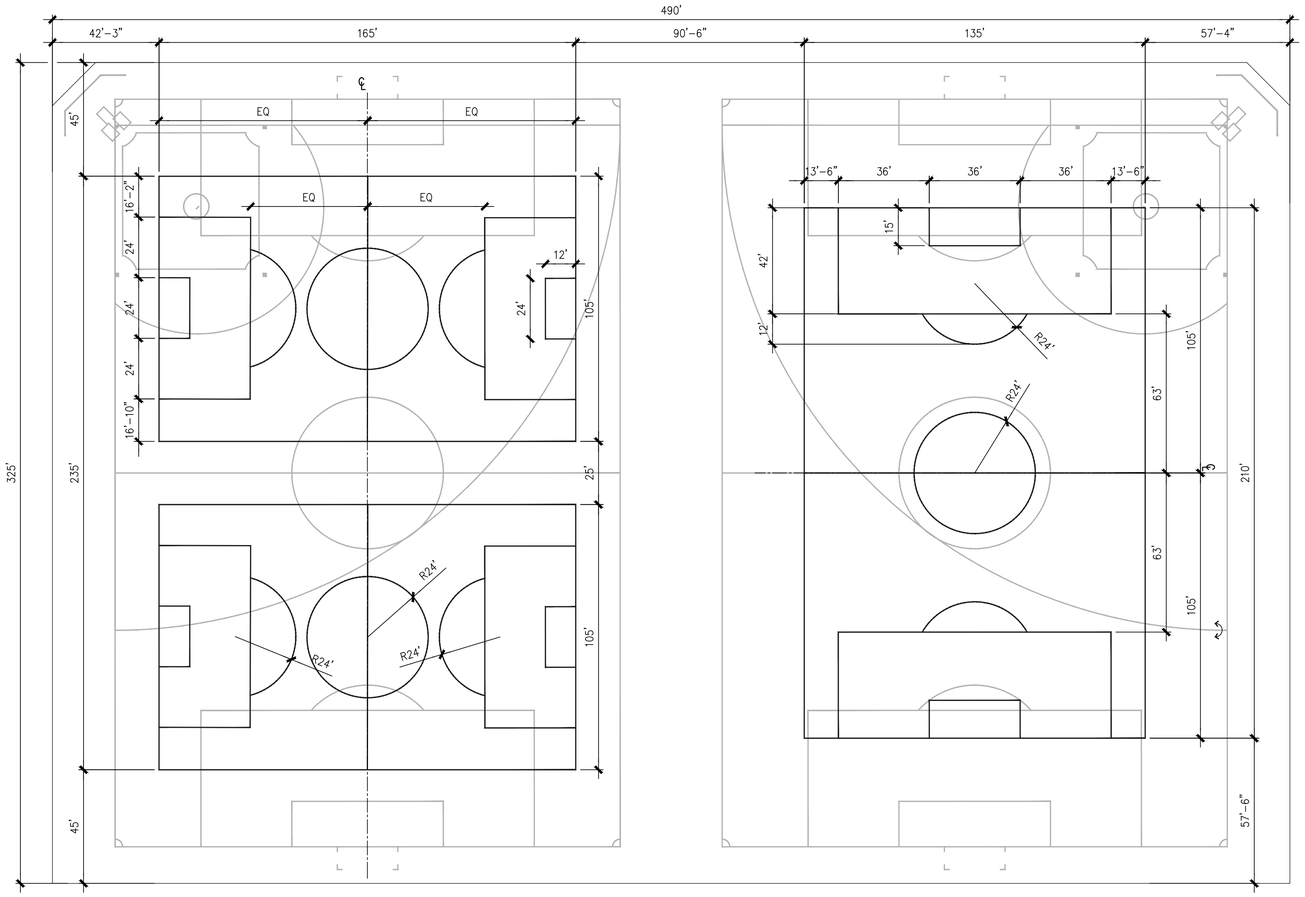
NOT FOR CONSTRUCTION

REGISTERED LANDSCAPE ARCHITECT
CASEY GATES · No. 6345
5/30/2024
12/31/2025
STATE OF CALIFORNIA

100% CDS
CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE: AS SHOWN
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: L4.40

May 14, 2024 - 12:07pm - USER mbori
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NOTES:
1. SOCCER FIELD STRIPING SHALL BE TUFTED 4" WIDE COLORED LINES. COLOR IN ACCORDANCE WITH MANUFACTURER STANDARD TURF COLORS.
2. LAYOUT IS FOR DESIGN INTENT ONLY. MANUFACTURER TO PROVIDE SHOP DRAWINGS FOR REVIEW AND ACCEPTANCE BY THE OWNER. ALL FIELD MARKINGS SHALL CONFORM TO CURRENT NFHS AND C.I.F. (CALIFORNIA INTERSCHOLASTIC FEDERATION) GUIDELINES.

1 ALL–WEATHER TURF SPORTS FIELDS STRIPING

SCALE: 1" = 30'–0"

NO.	REVISION	BY	DATE

DESIGNED MR / SW
DRAWN SW / MM
CHECKED MR
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS
SAN RAFAEL COUNTY OF MARIN CALIFORNIA

DRAWING NAME
LANDSCAPE CONSTRUCTION DETAILS - STRIPING LAYOUT

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING - URBAN DESIGN
T 559.790.8778 www.gatesla.com

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REGISTERED LANDSCAPE ARCHITECT CHRIS GATES No. 6368 Revoked 6/30/2024 12/31/2023 LA STATE OF CALIFORNIA

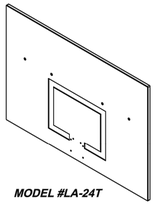
100% CDS
CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE: AS SHOWN
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: L4.41

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BASKETBALL BACKBOARD

MODEL #LA-24T HEAVY DUTY 1" SOLID WHITE POLYETHYLENE RECTANGLE (90lbs) WITH SOLID POLY TARGET



MODEL #LA-24T

(Std. mounting hole pattern on the board)

For the installation of backboard to an LA Steelcraft post ONLY. For other manufacturer's posts and backboards, consult installation instructions provided by that manufacturer.

SPECIFICATIONS:

GENERAL: *This heavy-duty backboard is designed for outdoor use.*

MATERIALS: **Poly Rectangle: The Model LA-24T is made of 1" thick, white, high-density, UV stabilized polyethylene. A 2" x 2" x 48" angle stiffener is provided for the back of the board with welded attachment angles for the diagonal brace installation and is powder coated white after fabrication.*

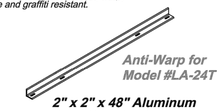
Caution: Flat washers must be used behind the plate when mounting the backboard.

WARRANTY PERIOD: *Limited Lifetime Warranty.*

**This backboard has been redesigned with a 6-hole pattern to allow changing the goals without removing the backboard.*
NOTE: *These two holes are used for attaching the backboard to the mounting plate and are only used to aid in installation. Always use the goal ring holes to secure the backboard to the mounting plate.*

**Shooters square machined into the face of board to provide a permanent target. This board is an incredibly durable Polyethylene Plastic that withstands extreme weather conditions. Won't rot, warp, or decay from moisture or ultraviolet rays and is virtually indestructible and graffiti resistant.*

STANDARD HARDWARE KIT FOR USE ON ALL BACKBOARD INSTALLATIONS	Qty
3/8-16 x 3-1/2" GR5 Fully Threaded Hex Bolt Zinc	4
3/8-16 x 1" GR5 C/S Zinc Hex Bolt (Cap Screw)	2
3/8-16 x 2" Flat Head Socket Cap Screw 18.8 SS	7
3/8" USS Flat Washer Zinc	15
3/8-16 Insert Nylock Zinc (2500)	11



Anti-Warp for Model #LA-24T

2" x 2" x 48" Aluminum Anti-Warp Angle

Steelcraft ELEMENTS FOR LIFE OUTSIDE www.LASTEELCRAFT.com 1-800-371-2438		
	Date: 4/8/15	**SPECIFICATION / INSTALLATION INSTRUCTIONS**
	Rev: 12/10/22	*POLYETHYLENE RECTANGLE BASKETBALL BACKBOARD*
	Drawn: MT	MODEL NO.
	Sheet: 1 of 3	***LA-24T***

BASKETBALL BACKBOARD

Determine the mode of backboard ordered.

The Model #LA-24T backboard is equipped with a 6-hole mounting pattern.
This board requires the use of the two countersunk holes on the face of the board.
NOTE: *These two holes are used for attaching the backboard to the mounting plate and are only used to aid in installation.*
Always use the goal ring holes to secure the backboard to the mounting plate.

1. *Align holes with mounting plate and attach with 3/8" x 2" Flat Head Bolts.*
   NOTE: *The bolt will seat in the counterbore hole on the face of the backboard.*
2. *Secure with 3/8" flat washers and nuts.*
3. *Align the goal ring with the other four holes on the mounting plate and secure with hardware provided.*
4. *Adjust backboard to square and tighten all bolts.*

NOTE: *The Rim and Backboard are to be mounted securely to the sleeve adapter (GNP). Attach the sleeve to the Post and secure with set screws and drive pin.*
5. *Align the Rim with the holes on the Backboard and mounting plate and attach with 3/8" x 3-1/2" Hex Head bolts, Flat Washers and Nylock Nuts.*
6. *Attach the Assembled Rim/Backboard/Sleeve to the Gooseneck Post.*
7. *For **Adjustable Offset Goals,** attach the Rim and Backboard with the requested hardware to the the adjustable offset. Use the other half clamp and attach the assembly to the bottom of the post. When all the hardware is snug, slide the assembly up the post to the desired height.*

This backboard is equipped with countersunk holes for the diagonal brace and angle iron stiffener installation.

CAUTION: Flat washers must be used behind the plate when mounting the backboard.

Model LA-24T:
1. *Attach 2" x 2" x 48" angle stiffner (with welded attachment angles) to the backboard with 3/8" x 2" Flat Head Bolts and Washers.*
2. *Attach diagonal braces to the angle stiffener with Flat Head Bolts and Flat Washers provided.*

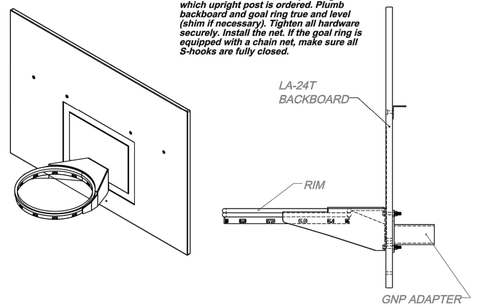
Diagonal Brace Installation:
Diagonal brace installation varies depending on which upright post is ordered.

Plumb backboard and goal ring true and level (shim if necessary). Tighten all hardware securely. Install the net. If the goal ring is equipped with a chain net, make sure all S-hooks are fully closed.

Steelcraft ELEMENTS FOR LIFE OUTSIDE www.LASTEELCRAFT.com 1-800-371-2438		
	Date: 4/8/15	**SPECIFICATION / INSTALLATION INSTRUCTIONS**
	Rev: 12/10/22	*POLYETHYLENE RECTANGLE BASKETBALL BACKBOARD*
	Drawn: MT	MODEL NO.
	Sheet: 2 of 3	***LA-24T***

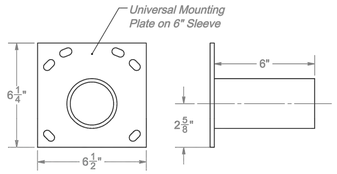
BASKETBALL BACKBOARD

MODEL #24T HEAVY DUTY 1" SOLID WHITE POLYETHYLENE RECTANGLE (90lbs) WITH SOLID POLY TARGET



Diagonal Brace Installation: Diagonal brace installation varies depending on which upright post is ordered. Plumb backboard and goal ring true and level (shim if necessary). Tighten all hardware securely. Install the net. If the goal ring is equipped with a chain net, make sure all S-hooks are fully closed.

NOTE: Sleeves supplied with Gooseneck Post ONLY



Post Size	*Sleeve Size*
3.5"	*3"*
4.5"	*4"*
5.563"	*5"*
6.625"	*6"*

Steelcraft ELEMENTS FOR LIFE OUTSIDE www.LASTEELCRAFT.com 1-800-371-2438		
	Date: 4/8/15	**SPECIFICATION / INSTALLATION INSTRUCTIONS**
	Rev: 12/10/22	*POLYETHYLENE RECTANGLE BASKETBALL BACKBOARD*
	Drawn: MT	MODEL NO.
	Sheet: 3 of 3	***LA-24T***

BASKETBALL GOAL RINGS & NETS

MODEL # 45 GOAL RINGS

MODEL # 34 NETS



HEAVY-DUTY DOUBLE RIM

Heavy-duty double ring goal with super nylon net (model #45): Goal is fabricated with two 18" diameter steel rings 5/8" diameter are welded together, with 1/8"diameter steel formed with 12 pigtail style net hooks welded to the bottom of the ring. A 3/16"thick x 6-1/2" wide heavy-duty steel mounting plate is welded to the goal ring which is further reinforced with a 1/2" diameter round steel support welded between each side of ring and the angle bracket. The mounting plate is drilled with a 6-hole universal mounting pattern. Goal is finished with an orange powder coated color.

SPECIFICATIONS

GENERAL:
LA Steelcraft offers seven types of official size goal rings and a variety of nets to meet your specific requirements. See respective model numbers and descriptions below.

MATERIAL:
All materials are selected for strength, durability and the ability to withstand years of exposure.

Steelcraft ELEMENTS FOR LIFE OUTSIDE www.LASTEELCRAFT.com 1-800-371-2438		
	Date: 11-6-07	BASKETBALL GOAL RINGS & NETS
	Rev: SS81517	
	Drawn: AMC	MODEL NO.
	Sheet: 1 of 4	**BB-GOAL RINGS & NETS**

Steelcraft ELEMENTS FOR LIFE OUTSIDE		
	Date: 11-6-07	BASKETBALL GOAL RINGS & NETS
	Rev: SS81517	
	Drawn: AMC	MODEL NO.
	Sheet: 2 of 4	**BB-GOAL RINGS & NETS**

SINGLE BASKETBALL POST

MODEL #LA-12C46 *4-1/2" O.D. WITH 6' OFFSET (210 LBS)*

Verify the vertical position of the mounting plate using a level.

SPECIFICATIONS:

Material: Support post is a single length of 4-1/2" O.D. galvanized steel formed to provide a graceful 6 ft. offset. Backboard mount is a 6-1/4" x 6-1/2" steel plate welded to the sleeve adapter then mounted to the support post with a set screw and drive pins.

A pair of diagonal braces, 1" O.D. galvanized steel, is mounted between the backboard and the post. Braces bolt to the backboard and are secured to the post with a pair of brace bands formed to fit the post diameter.

All welds are ground smooth and either treated with cold-galvanizing compound or prepared for powder coating, depending on the finish selected. All the hardware is zinc-plated for long rust-free service.

Steelcraft ELEMENTS FOR LIFE OUTSIDE www.LASTEELCRAFT.com 1-800-371-2438		
	Date: 8/29/23	**SPECIFICATION / INSTALLATION INSTRUCTIONS**
	Rev:	SINGLE GOOSENECK POST
	Drawn: CW	MODEL NO.
	Sheet: 1 of 2	LA-12C46-SPEC

PERMANENT FOOTING DETAIL

NOTE: Footing sizes are based on average soil conditions. Loose and/or sandy soil is not average and footing sizes must be increased accordingly to meet soil conditions and local building codes and specifications. Post depth is approximate and should be adjusted to ensure that the top of the Gooseneck offset post is **9'-11"** above finish grade.

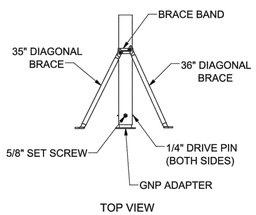
INSTALLATION INSTRUCTIONS:

1. Dig a hole in desired location per footing chart dimensions. Set the bottom of the post in the center of the hole and shim from below or fill such that the top of the Gooseneck Post on the offset is **9'-11"** above finish grade. Plumb post true vertical and brace. **NOTE:** The top of the rim will be at 10' when installed.

NOTE: Verify that the backboard mounting plate is perpendicular to the surface by using a vertical level before pouring the concrete.

2. Pour the concrete and allow it to set for 3 days before the removal of the bracing and completion of the installation. Cover the footings with turf or court materials.
3. Attach the diagonal braces with the brace bands and carriage bolts provided. Slide both of the brace bands onto the post and attach with the carriage bolts and lock nuts.
4. Refer to the backboard installation instructions to complete backboard & GNP Adapter installation.
5. Slide the brace bands and braces toward the back of the backboard until the opposite end of the diagonal brace aligns with attachment angles or nuts. **NOTE:** Attach the diagonal braces either to the welded nuts or attachment angles, depending on the backboard.
6. Tighten all the bolts.
7. Once everything is tightened, drill 1/4" Drive Pin holes in the GNP Adapter through the Gooseneck holes on the left and right side of the offset end with the undersized 7/32" drill bit.
8. Install the drive pins.

Packing Slip	Qty
4-1/2" O.D. Gooseneck Post 6' Offset	1
4" GNP Adapter	1
35" Diag. Brace	1
36" Diag. Brace	1
4-1/2" O.D. Brace Band	2
Hardware Kit	**Qty**
5/16"-18 x 1-1/4" Carriage Bolt	2
5/16"-18 Nylock Nut	2
5/8"-11 x 1" Socket Head Set Screw	1
1/4" SS Drive Pin	2



TOP VIEW

Steelcraft ELEMENTS FOR LIFE OUTSIDE www.LASTEELCRAFT.com 1-800-371-2438		
	Date: 8/29/23	**SPECIFICATION / INSTALLATION INSTRUCTIONS**
	Rev:	SINGLE GOOSENECK POST
	Drawn: CW	MODEL NO.
	Sheet: 2 of 2	LA-12C46-SPEC

3 BASKETBALL BACKBOARD
SCALE: N.T.S

2 BASKETBALL NET & RIM
SCALE: N.T.S

1 BASKETBALL POLE
SCALE: N.T.S

NO.	REVISION	BY	DATE

DESIGNED MR / SW
DRAWN SW / MM
CHECKED MR
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
LANDSCAPE CONSTRUCTION DETAILS- BASKETBALL
SAN RAFAEL COUNTY OF MARIN CALIFORNIA

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING - URBAN DESIGN
SAN RAFAEL, CA 94901 T: 415.754.8170 www.gatesla.com

NOT FOR CONSTRUCTION

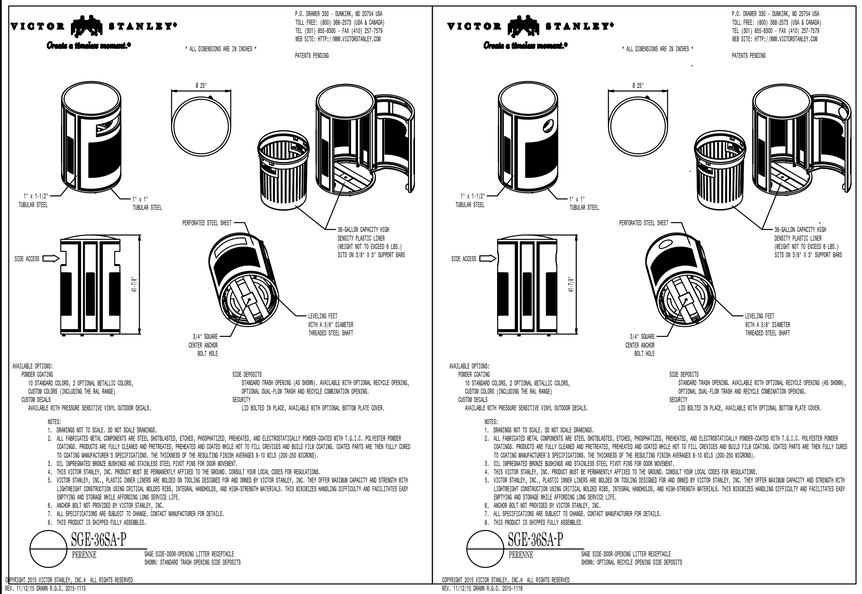
REGISTERED LANDSCAPE ARCHITECT CHRIS GATES No. 5032 Expires 6/30/2024 Renewal Date 12/31/2023 STATE OF CALIFORNIA

100% CDS

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

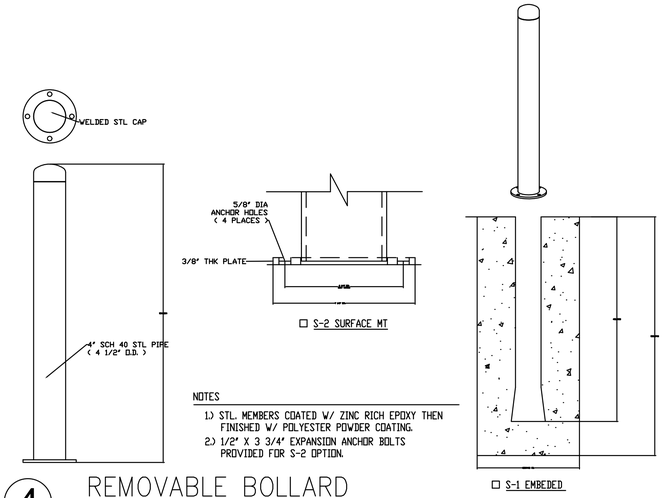
SCALE: AS SHOWN
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: L4.42

May 14, 2024 - 3:41pm - USER mitori
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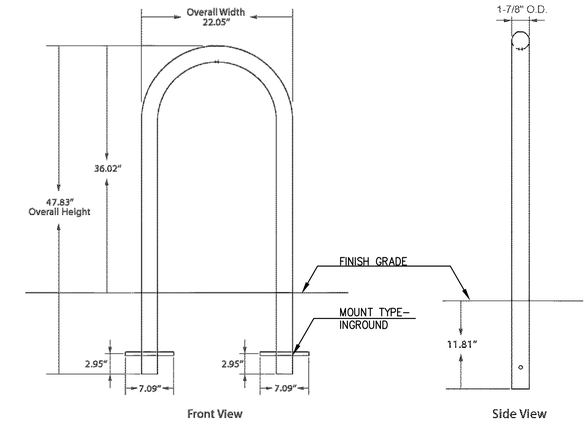
6 TRASH AND RECYCLE RECEPTACLE

SCALE: 6" = 1'-0"



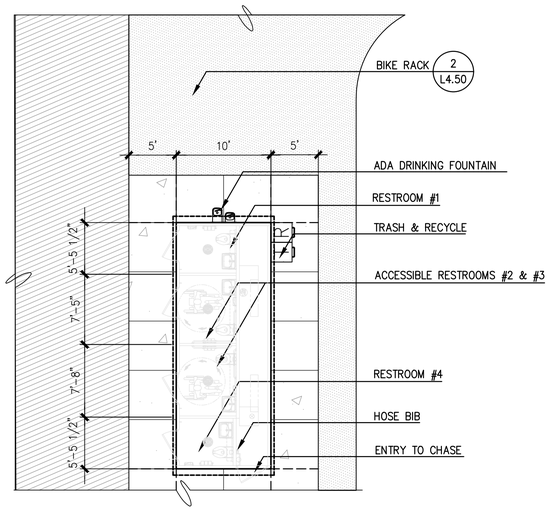
4 REMOVABLE BOLLARD

SCALE: 1" = 1'-0"



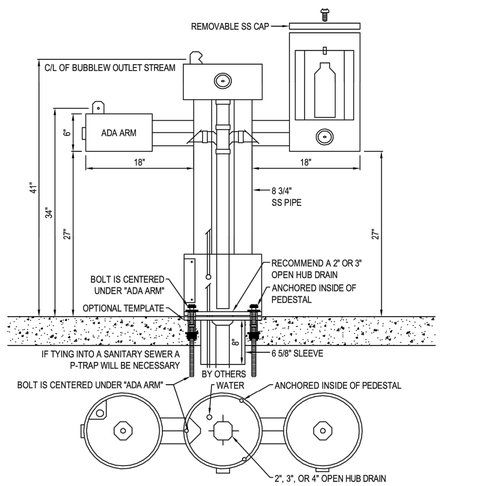
2 BIKE RACK

SCALE: N.T.S.



5 CXT RESTROOM DETAIL

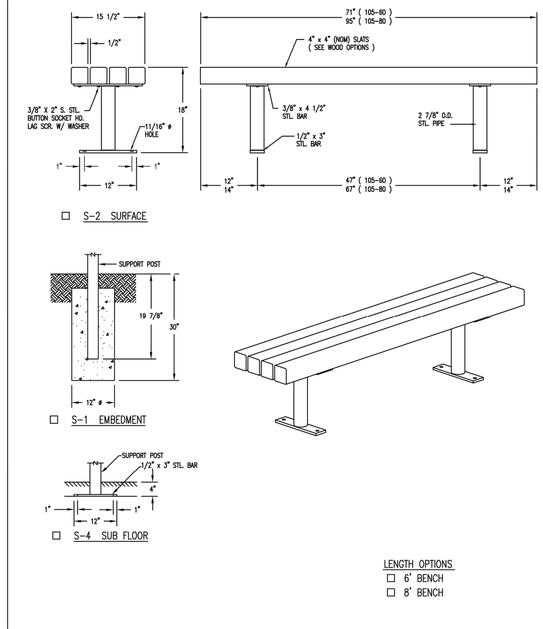
SCALE: 1/8" = 1'-0"



NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWING.
3. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
4. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 3354-6-613.

3 DRINKING FOUNTAIN

SCALE: N.T.S.



NOTES
1.) ALL STL. MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COATING.
2.) 1/2" X 3 3/4" EXPANSION ANCHOR BOLTS PROVIDED FOR S-2 & S-4 OPTIONS.

DuMor, inc.	BENCH	DATE DRAWN : 01/18/97 DRAWN BY : AH DATE REV. : 10/27/11 REV. BY : RDH	REV. F	DRAWING NUMBER 105 SERIES	SHEET 1 OF 2

1 BENCH

SCALE: N.T.S.

NO.	REVISION	BY	DATE

DESIGNED MR / SW
DRAWN SW / MM
CHECKED MR
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
LANDSCAPE CONSTRUCTION DETAILS - SITE FURNISHINGS
SAN RAFAEL COUNTY OF MARIN CALIFORNIA

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING - URBAN DESIGN
SAN RAFAEL, CA 94901 T 707.794.0119 www.gates.com

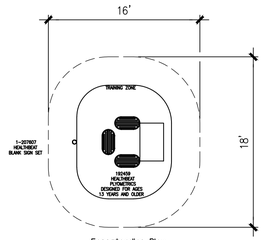
NOT FOR CONSTRUCTION

REGISTERED LANDSCAPE ARCHITECT CHRIS GATES No. 5032 Expiration 6/30/2024 Renewal Date 12/31/2023 STATE OF CALIFORNIA

100% CDS
CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE: AS SHOWN
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: L4.50

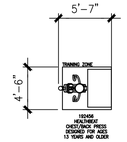
May 13, 2024 - 4:43pm - USER: Illition
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Freestanding Play
(13+ years)

Max Fall Height: 16 inches
TOTAL SQUARE FOOTAGE
250 SQ.FT.

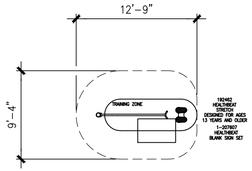
4 ADULT FITNESS – PLYOMETRICS
SCALE: N.T.S.



Freestanding Play
(13+ years)

Max Fall Height: 0 inches

2 ADULT FITNESS – CHEST/BACK PRESS
SCALE: N.T.S.

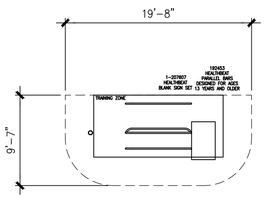


Freestanding Play
(13+ years)

Max Fall Height: 96 inches

TOTAL SQUARE FOOTAGE
177 SQ.FT.

5 ADULT FITNESS – STRETCH
SCALE: N.T.S.

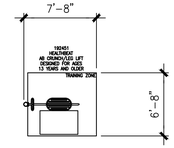


Freestanding Play
(13+ years)

Max Fall Height: 46 inches

TOTAL SQUARE FOOTAGE
261 SQ.FT.

3 ADULT FITNESS – PARALLEL BARS
SCALE: N.T.S.



Freestanding Play
(13+ years)

Max Fall Height: 21 inches
TOTAL SQUARE FOOTAGE
160 SQ.FT.

1 ADULT FITNESS – AB CRUNCH/LEG LIFT
SCALE: N.T.S.

NO.	REVISION	BY	DATE

DESIGNED MR / SW
DRAWN SW / MM
CHECKED MR
APPROVED

DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
LANDSCAPE CONSTRUCTION DETAILS - SITE FURNISHINGS

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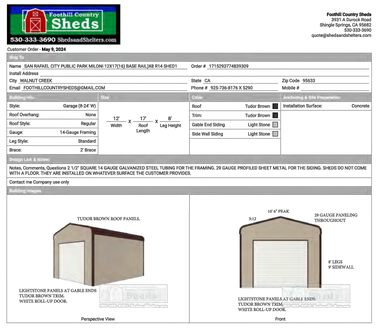
NOT FOR CONSTRUCTION

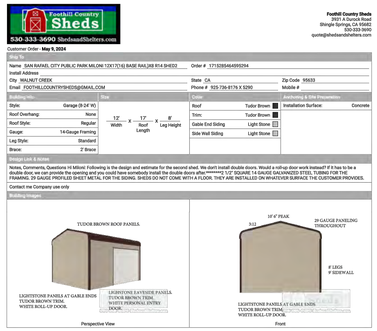
REGISTERED LANDSCAPE ARCHITECT
CHRIST GATES - NO. 5048
Revision
6/30/2024
12/21/2023
LA
STATE OF CALIFORNIA

100% CDS
CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE: AS SHOWN
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: L4.51

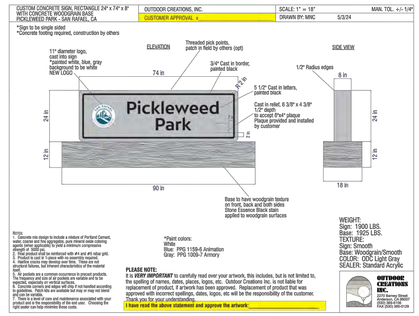
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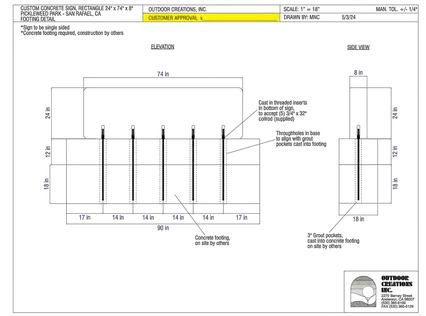


2 STORAGE UNIT

SCALE: N.T.S.

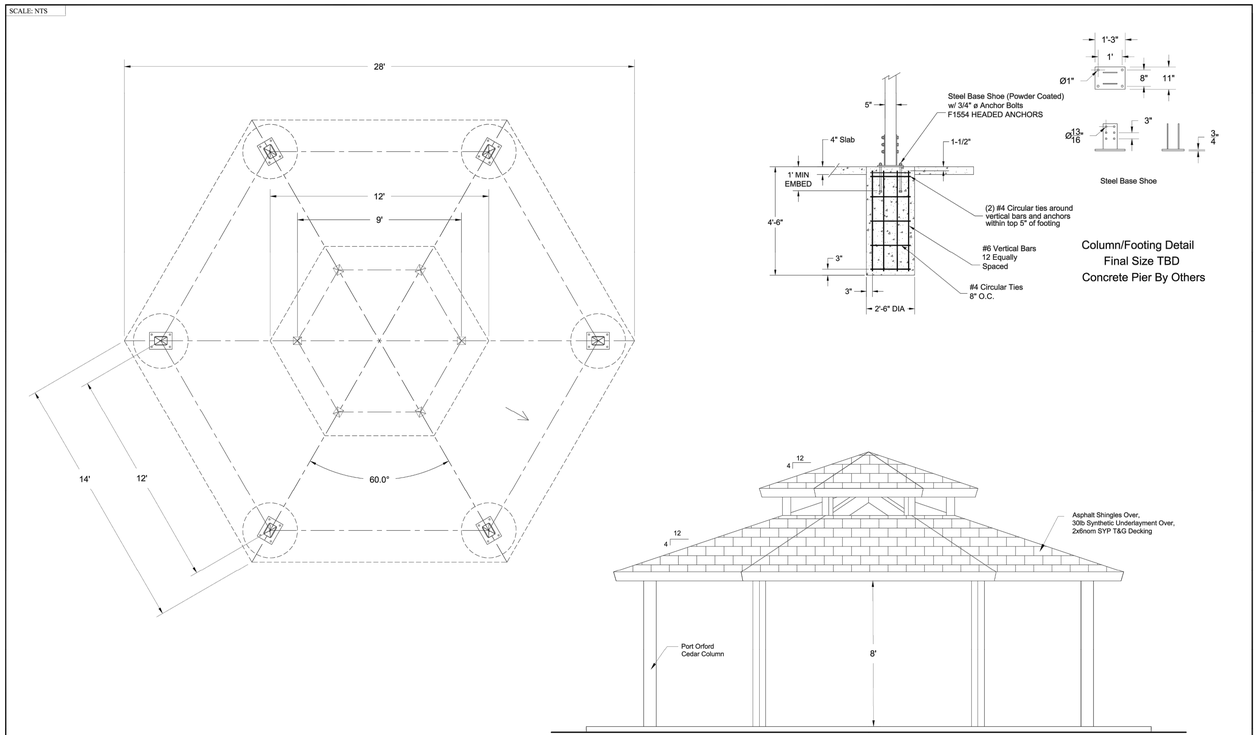






3 SIGNAGE

SCALE: N.T.S.



1 GAZEBO

SCALE: N.T.S.

CFP CEDAR FOREST PRODUCTS
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WEST OLIVE, MI 49460
800-552-9495
WWW. CEDARFORESTPRODUCTS.COM

PRELIMINARY
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MODEL NUMBER:	JPB28-2T	SHOWN WITH STANDARD OPTIONS	REVISION DATES	DRAWN BY:	DATE:
DESCRIPTION:	28' Hexagon Post and Beam 2-Tier Shelter		REV:	TBD	12-19-23
Possible Options:	☐ 29ga METAL ROOF ☐ STANDING SEAM ROOF ☐ CEDAR SHINGLES	☐ METAL BASE SHOES ☐ STEEL COLUMNS ☐ CUSTOM ROOF PITCH	☐ LIGHTNING PROTECTION ☐ 2 TIER ROOF ☐ CUPOLA	REV: REV: REV:	SHEET: 1 OF 1	

NO.	REVISION	BY	DATE

DESIGNED MR / SW
DRAWN SW / MM
CHECKED MR
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
LANDSCAPE CONSTRUCTION DETAILS - SITE FURNISHINGS
SAN RAFAEL COUNTY OF MARIN CALIFORNIA

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING - URBAN DESIGN
SAN RAFAEL, MARIN, MONTEREY, CALIFORNIA
T 415.785.3170 WWW.GATESLA.COM

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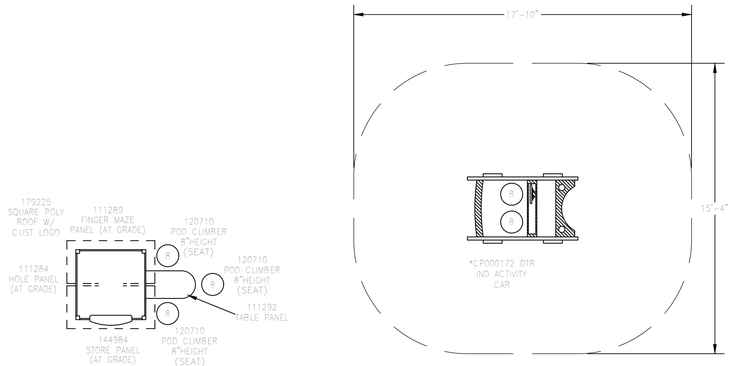
REGISTERED LANDSCAPE ARCHITECT
CHRIS GATES No. 6032
Expiration 6/30/2024
Renewal Date 12/21/2023
LA
STATE OF CALIFORNIA

100% CDS

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE: AS SHOWN
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: L4.52

May 13, 2024 - 4:43pm - USER: illition
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PlayShaper®
(2-5 years)
Max Fall Height: 11 inches

Estimated manufacturing time:
6 weeks from the time of
LSI order acceptance, or receipt of
SkyWays release of fabrication
form if applicable.

landscape structures

IPEMA CERTIFIED 3rd Party

The play components identified on this plan are IPEMA certified (those model number is preceded with *) The use and layout of these components conform to the requirements of ASTM F1487. To verify product certification, visit www.ipema.org

THIS PLAY AREA & PLAY EQUIPMENT IS DESIGNED FOR AGES 2-5 YEARS UNLESS OTHERWISE NOTED ON PLAN.

IT IS THE MANUFACTURERS OPINION THAT THIS PLAY AREA DOES CONFORM TO THE A.D.A. ACCESSIBILITY STANDARDS, ASSUMING AN ACCESSIBLE PROTECTIVE SURFACING IS PROVIDED, AS INDICATED, OR WITHIN THE ENTIRE USE ZONE.

THIS CONCEPTUAL PLAN WAS BASED ON INFORMATION AVAILABLE TO US, PRIOR TO CONSTRUCTION. DETAILED SITE INFORMATION INCLUDING SITE DIMENSIONS, TOPOGRAPHY, EXISTING UTILITIES, SOIL CONDITIONS, AND DRAINAGE SOLUTIONS SHOULD BE OBTAINED, EVALUATED, & UTILIZED IN THE FINAL DESIGN. PLEASE VERIFY ALL DIMENSIONS OF PLAY AREA, SIZE, ORIENTATION, AND LOCATION OF ALL EXISTING UTILITIES, EQUIPMENT, AND SITE FURNISHINGS PRIOR TO ORDERING. SLIDES SHOULD NOT FACE THE HOT AFTERNOON SUN.

CHOOSE A PROTECTIVE SURFACING MATERIAL THAT HAS A CRITICAL HEIGHT VALUE TO MEET THE MINIMUM FALL HEIGHT FOR THE EQUIPMENT (PER ASTM F1487 STANDARD CONSUMER SAFETY PERFORMANCE SPECIFICATION FOR PLAYGROUND EQUIPMENT FOR PUBLIC USE, SECTION 8 CURRENT REVISION). THE SUBSURFACE MUST BE WELL DRAINED. IF THE SOIL DOES NOT DRAIN NATURALLY IT MUST BE TILED OR SLOPED 1/8" TO 1/4" PER FOOT TO A STORM SEWER OR A "FRENCH DRAIN".

AREA OF ACCESSIBLE/PROTECTIVE SURFACING: (POURED-IN-PLACE SUGGESTED)

IT IS THE MANUFACTURER'S OPINION AND INTENT THAT THE LAYOUT OF THESE COMPONENTS CONFORM WITH THE U.S. CONSUMER PRODUCT SAFETY COMMISSION'S (CPSC) HANDBOOK FOR PUBLIC PLAYGROUND SAFETY.

DESIGNED BY:
JAG
COPYRIGHT 6/29/23
LANDSCAPE STRUCTURES INC.
601 7th STREET SOUTH • P.O. BOX 138
DELANO, MINNESOTA 55328
PH: 1-800-328-0032 FAX: 1-763-972-8057

Date	Previous Drawing #	Initials

TOTAL ELEVATED PLAY COMPONENTS 0					
TOTAL ELEVATED COMPONENTS ACCESSIBLE BY RAMP	0	REQUIRED	0		
TOTAL ELEVATED COMPONENTS ACCESSIBLE BY TRANSFER	0	REQUIRED	0		
TOTAL ACCESSIBLE GROUND LEVEL COMPONENTS SHOWN	6	REQUIRED	0		
TOTAL DIFFERENT TYPES OF GROUND LEVEL COMPONENTS	6	REQUIRED	6		

SCALE: IN FEET
0 5 10

Pickleweed
Park
San Rafael, CA

Ross Recreation
Equipment Co
Nick Philbin

SYSTEM TYPE:
Freestanding

DRAWING #:
1176373-01-01

ISO 14001:2015 CERTIFIED
ISO 9001:2015 Certified

1 TODDLER PLAY EQUIPMENT (ADD ALTERNATE) #1
SCALE: N.T.S.

May 13, 2024 - 4:43pm - USER Jillian
P:\san rafael\p6019 & p8114_pickleweed park\ACAD\Sheets_DG-D-PICKLEWEED PARK.DWG

DESIGNED	MR / SW
DRAWN	SW / MM
CHECKED	MR
APPROVED	

NO.	REVISION	BY	DATE

DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
LANDSCAPE CONSTRUCTION DETAILS - SITE FURNISHINGS

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

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REGISTERED LANDSCAPE ARCHITECT
CASEY CASE • No. 6000
Expires 6/30/2024
Date Signed 12/21/2023
STATE OF CALIFORNIA

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CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE: AS SHOWN
DATE: 05/15/24
CITY PROJECT NO.: 11376
SHEET NO.: L4.53

ABBREVIATIONS

A	AMPERE
ABV	ABOVE
AF	AMPERE FRAME, AMPERE FUSE
AFF	ABOVE FINISHED FLOOR
AIC	AMPERE INTERRUPTING CAPACITY
ARCH	ARCHITECTURAL
BKR	BREAKER
BLDG	BUILDING
C	CONDUIT
CB	CIRCUIT BREAKER
CBC	CALIFORNIA BUILDING CODE
CEC	CALIFORNIA ELECTRICAL CODE
CFC	CALIFORNIA FIRE CODE
CKT	CIRCUIT
CL	CENTER LINE
CLG	CEILING
CO	CONDUIT ONLY
COMM	COMMUNICATIONS
CTR	CENTER
(D)	DEMOLISH
DIST	DISTRIBUTION
DP	DISTRIBUTION PANEL
DWG	DRAWING
(E)	EXISTING
ELEC	ELECTRICAL
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
(F)	FUTURE
FIN	FINISH
FLR	FLOOR
G, GND	GROUND
GRC	GALVANIZED RIGID CONDUIT
HGT	HEIGHT
HP	HORSEPOWER
IDF	INTERMEDIATE DISTRIBUTION FRAME
INFO	INFORMATION
JB	JUNCTION BOX
KAIC	KILOAMPERE INTERRUPTING CAPACITY
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KW	KILOWATT
LTG	LIGHTING
LV	LOW VOLTAGE
MAX	MAXIMUM
KCMIL	THOUSAND CIRCULAR MILS
MDF	MAIN DISTRIBUTION FRAME
MECH	MECHANICAL
MIN	MINIMUM
MTD	MOUNTED
MTG	MOUNTING
NC	NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NIEC	NOT IN ELECTRICAL CONTRACT
NTS	NOT TO SCALE
NUM, #	NUMBER
OC	ON CENTER
P	POLE
PB	PULL BOX
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
PVC	POLYVINYL CHLORIDE
(R)	EXISTING TO BE RELOCATED
REQD	REQUIRED
REQT(S)	REQUIREMENT(S)
RM	ROOM
RSC	RIGID STEEL CONDUIT
SAD	SEE ARCHITECTURAL DOCUMENTS
SHT	SHEET
SWBD	SWITCHBOARD
T24	CALIFORNIA ENERGY CODE
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLT
W	WATT, WIRE
WP	WEATHERPROOF
XFMR	TRANSFORMER

POWER DISTRIBUTION SYMBOLS (PLANS)

- PANELBOARD - FLUSH MOUNTED.
- PANELBOARD - SURFACE MOUNTED.
- DISTRIBUTION PANEL
- MOTOR
- EQUIPMENT WITHOUT MOTOR
- EQUIPMENT WITH MOTOR
- UNFUSED DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH
- MOTOR RATED SWITCH
- GROUND ROD
- EQUIPMENT TAG - SEE EQUIPMENT SCHEDULE
  "CH" = EQUIPMENT TYPE
  "2" = UNIQUE IDENTIFIER

SECURITY DEVICE SYMBOLS

- FUTURE FIXED POSITION VIDEO CAMERA, MOUNT DATA JACK ON ROOF. PROVIDE (1) DATA CABLE, (1) 3/4" C., AND DATA JACK. DEVICE SHALL BE OFCI.

NOTES

1. PROVIDE 3/4" C. FROM DEVICE LOCATION BACK TO HEADEND EQUIPMENT.

NEW VS. EXISTING

- (N) CONDUIT - CONCEALED IN WALLS OR CEILING.
- (E) CONDUIT - CONCEALED IN WALLS OR CEILING.
- (E) CONDUIT - TO BE REMOVED.
- (N) DEVICE OR EQUIP (EXAMPLE)
- (E) DEVICE OR EQUIP (EXAMPLE)
- (E) DEVICE OR EQUIP TO BE REMOVED (EXAMPLE)

WIRING, CONDUIT, AND RACEWAY SYMBOLS

- CONDUIT - CONCEALED IN WALLS OR CEILING.
- CONDUIT - EXPOSED.
- CONDUIT - UNDERGROUND / DIRECT BURIAL.
- CONDUIT - STUB UP.
- CONDUIT - STUB DOWN.
- CONDUIT - CAPPED.
- CONDUIT - CONTINUATION.
- IN-GRADE PULL BOX. SINGLE LINE = NON-TRAFFIC RATED. DOUBLE LINE = TRAFFIC RATED. "Y" = UNIQUE BOX IDENTIFIER. "X" = SYSTEM:
  P = POWER
  C = COMMUNICATIONS
  F = FIRE ALARM
  L = LIGHTING

RECEPTACLE AND POWER SYMBOLS

POKE THRU	FLR	WALL	CLG	AT HGT	
					SIMPLEX RECEPTACLES
					DUPLEX RECEPTACLES
					QUADRUPLEX RECEPTACLES
					GFCI DUPLEX RECEPTACLES
					GFCI QUADRUPLEX RECEPTACLES
					JUNCTION BOX

TYPICAL RECEPTACLE NOMENCLATURE

R1-3 / R1-3 +"Y"
"R1" DENOTES PANEL NAME
"3" DENOTES CIRCUIT NUMBER
"Y" DENOTES MOUNTING HEIGHT (IF APPLICABLE)

NOTES

1. WALL MOUNTED DEVICES SHALL BE MOUNTED AT 18" AFF TO BOTTOM OF DEVICE, UON.
2. WALL MOUNTED DEVICES SHOWN AT A DEFINED HEIGHT SHALL BE MOUNTED WITH THE BOTTOM AT 1" ABOVE COUNTER BACKSPLASH, UON.
3. SIZE JUNCTION BOXES AS REQ'D PER CODE. TAPE AND TAG WIRES. COORDINATE WITH EQUIPMENT AND PROVIDE FLEX CONDUIT AND/OR RECEPTACLES AS REQUIRED TO CONNECT EQUIPMENT.

LUMINAIRE SYMBOLS

- LUMINAIRE - SOLAR-POWERED BOLLARD MARKER LIGHT.
- LUMINAIRE - WALL MOUNT CAN.
- LUMINAIRE - WALL MOUNT BOX.
- LUMINAIRE - POLE MOUNT SINGLE HEAD.
- LUMINAIRE - POLE MOUNT DOUBLE HEAD.
- EXIT LIGHT - EMERGENCY BATTERY PACK.

TYPICAL LUMINAIRE NOMENCLATURE

- UNSHADED SYMBOL DENOTES STANDARD LUMINAIRE.
- SHADED SYMBOL DENOTES EMERGENCY LUMINAIRE.
- A — "A" DENOTES LUMINAIRE TYPE
- L1-3b — "L1" DENOTES PANEL NAME, "3" DENOTES CIRCUIT NUMBER, "b" DENOTES SWITCH LEG

LIGHTING CONTROLS SYMBOLS

- OCCUPANCY SENSOR - WALL MOUNT WITH DIRECTIONAL VIEW. ARROW INDICATES AIMING DIRECTION.
- $ LIGHT SWITCH
- LCP LIGHTING CONTROL PANEL

NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING FIXTURE TYPE AND MOUNTING CONDITIONS, REGARDLESS OF SYMBOL SHOWN ON PLANS. COORDINATE WITH EXACT CEILING CONDITIONS TO PROVIDE ALL MOUNTING HARDWARE AND MISC. APPURTENANCES AS REQUIRED FOR A COMPLETE INSTALLATION.
2. REFER TO LUMINAIRE/FIXTURE SCHEDULE FOR FIXTURE DESCRIPTION, MOUNTING, AND LAMPING INFORMATION.
3. SHADED FIXTURES SHALL INDICATE THAT FIXTURE IS CONNECTED TO AN EMERGENCY POWER SOURCE. PROVIDE ALL MISC. APPURTENANCES AS REQUIRED TO ALLOW FIXTURE TO TRANSFER FROM NORMAL TO EMERGENCY POWER. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, TRANSFER MODULES AND/OR UL 924 RELAYS AS REQUIRED TO ALLOW ALL EMERGENCY FIXTURES TO BE CONTROLLED WITH ROOM LIGHTING DURING NORMAL CONDITIONS AND THEN TRANSFER TO EMERGENCY POWER SOURCE UPON LOSS OF NORMAL POWER.

POWER DISTRIBUTION SYMBOLS (SINGLE LINE)

- TRANSFORMER (SINGLE LINE)
- STANDARD / EMERGENCY PANEL BOARD
- CIRCUIT BREAKER, 3-POLE UON.
- GROUND ROD
- METER WITH CURRENT TRANSFORMERS. "X" INDICATES METER IDENTIFIER, SEE SCHEDULE.
  U = UTILITY METER
  M# = OWNER METER, SEE SPECIFICATIONS

GENERAL SYMBOLS

- 3 / E2.1 and 3 / - PLAN OR DETAIL DESIGNATION
  "3" DENOTES DETAIL OR PLAN NUMBER
  "E2.1" DENOTES SHEET NUMBER.
  "-" DENOTES SAME SHEET.
- 2 / E1.0 and 2 / - SECTION OR ELEVATION DESIGNATION
  "2" DENOTES SECTION OR ELEVATION NUMBER
  "E1.0" DENOTES SHEET NUMBER.
  "-" DENOTES SAME SHEET.
- # SHEET NOTE TAG - SEE APPLICABLE NOTE ON SAME SHEET
- XXXX FEEDER SCHEDULE TAG, SEE APPLICABLE SCHEDULE
- XXXX CONDUIT SCHEDULE TAG, SEE APPLICABLE SCHEDULE

OWNERSHIP OF INSTRUMENTS OF SERVICE

1. ALL REPORTS, DRAWINGS, SPECIFICATIONS, COMPUTER FILES, FIELD DATA, NOTES AND OTHER DOCUMENTS AND INSTRUMENTS PREPARED BY THE CONSULTANT AS INSTRUMENTS OF SERVICE SHALL REMAIN THE PROPERTY OF THE CONSULTANT. THE CONSULTANT SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT THERETO.
2. THE CLIENT ACKNOWLEDGES THE CONSULTANT'S CONSTRUCTION DOCUMENTS, INCLUDING ELECTRONIC FILES, AS INSTRUMENTS OF PROFESSIONAL SERVICE. NEVERTHELESS, THE FINAL CONSTRUCTION DOCUMENTS PREPARED UNDER THIS AGREEMENT SHALL BECOME THE PROPERTY OF THE CLIENT UPON COMPLETION OF THE SERVICES AND PAYMENT IN FULL OF ALL MONIES DUE TO THE CONSULTANT. THE CLIENT SHALL NOT REUSE OR MAKE ANY MODIFICATION TO THE CONSTRUCTION DOCUMENTS WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF THE CONSULTANT. THE CLIENT AGREES, TO THE FULLEST EXTENT PERMITTED BY LAW, TO INDEMNIFY AND HOLD HARMLESS THE CONSULTANT, ITS OFFICERS, DIRECTORS, EMPLOYEES AND SUBCONSULTANTS (COLLECTIVELY, CONSULTANT) AGAINST ANY DAMAGES, LIABILITIES OR COSTS, INCLUDING REASONABLE ATTORNEY'S FEES AND DEFENSE COSTS, ARISING FROM OR ALLEGEDLY ARISING FROM OR IN ANY WAY CONNECTED WITH THE UNAUTHORIZED REUSE OR MODIFICATION OF THE CONSTRUCTION DOCUMENTS BY THE CLIENT OR ANY PERSON OR ENTITY THAT ACQUIRES OR OBTAINS THE CONSTRUCTION DOCUMENTS FROM OR THROUGH THE CLIENT WITHOUT THE WRITTEN AUTHORIZATION OF THE CONSULTANT.

CODES AND STANDARDS

1. 2022 CALIFORNIA BUILDING CODE (CBC), VOLUMES #1 AND #2 (PART 2,TITLE 24, CCR).
2. 2022 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR).
3. 2022 CALIFORNIA MECHANICAL CODE (CMC) (PART 4, TITLE 24, CCR).
4. 2022 CALIFORNIA PLUMBING CODE (CPC) (PART 5, TITLE 24, CCR).
5. 2022 CALIFORNIA ENERGY CODE (PART 6,TITLE 24, CCR).
6. 2022 CALIFORNIA FIRE CODE (CFC) (PART 9,TITLE 24, CCR).
7. 2022 CALIFORNIA GREEN CODE (PART 11, TITLE 24, CCR).
8. 2022 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR).
9. 2016 NFPA 72 NATIONAL FIRE ALARM CODE.
10. 2015 NFPA 720 STANDARDS FOR CARBON MONOXIDE DETECTION AND WARNING.
11. 2016 NFPA 13 STANDARDS FOR FIRE SPRINKLER SYSTEMS.
12. ADA STANDARDS FOR ACCESSIBLE DESIGN: ADA ACCESSIBILITY GUIDELINES (ADAAG) 28, PART 36 APPENDIX A.
13. ADA STANDARDS FOR ACCESSIBLE DESIGN - CODE OF REGULATIONS (INCLUDING AMENDMENTS).

DRAWING INDEX

E0.0	GENERAL INFORMATION
E1.1A	SITE PLAN - PHASE 1
E1.2A	SITE PLAN - PHASE 1
E1.1B	SITE PLAN - PHASE 2
E2.1	SITE LIGHTING CALCS
E6.0	DIAGRAMS
E7.0	SCHEDULES
E8.0	DETAILS
E8.1	DETAILS
E9.0	TITLE 24 INTERIOR LTG
E9.1	TITLE 24 EXTERIOR LTG
E9.2	TITLE 24 POWER

GENERAL NOTES

A. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO BIDDING AND ALLOW FOR ALL FIELD CONDITIONS. OBTAIN CONTRACT DOCUMENTS FOR ALL OTHER TRADES AND BE RESPONSIBLE FOR ALL ELECTRICAL WORK NOTED AND CALLED OUT ON THE CONTRACT DOCUMENTS. COORDINATE ELECTRICAL WORK WITH ALL OTHER TRADES ON PROJECT. COORDINATE ALL CONDUIT RUNS, ELECTRICAL EQUIPMENT AND PANEL LOCATIONS WITH ALL OTHER WORK TO AVOID CONFLICTS.

B. COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS. MATERIALS AND EQUIPMENT SHALL BE U.L. AND CALIFORNIA STATE FIRE MARSHAL (CSFM) LISTED AND LABELED FOR THE APPLICATION.

C. BEFORE BEGINNING CONSTRUCTION, PROVIDE TO THE ARCHITECT A CONSTRUCTION SCHEDULE OF ELECTRICAL WORK. THE CONSTRUCTION SCHEDULE SHALL IDENTIFY ALL SIGNIFICANT MILESTONES WITH COMPLETION DATES.

D. OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTION FEES REQUIRED BY THIS CONTRACT WORK, UNLESS OTHERWISE NOTED.

E. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONS AND PROPERTY AND SHALL PROVIDE INSURANCE COVERAGE AS NECESSARY FOR LIABILITY, PERSONAL, PROPERTY DAMAGE, TO FULLY PROTECT THE OWNER, ARCHITECT AND ENGINEER FROM ANY AND ALL CLAIMS RESULTING FROM THIS WORK.

F. MAINTAIN RECORD DRAWINGS AT THE PROJECT SITE INDICATING ALL MODIFICATIONS TO ELECTRICAL SYSTEMS. AT THE CONCLUSION OF THE PROJECT, PROVIDE ACCURATE "AS-BUILT" DRAWINGS ACCEPTABLE TO THE ARCHITECT.

G. ALL MATERIALS PROVIDED FOR THE PROJECT SHALL BE NEW, UNLESS OTHERWISE NOTED. PROVIDE ALL INCIDENTAL MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.

H. ALL ELECTRICAL EQUIPMENT INSTALLED OUTDOORS SHALL BE WEATHERPROOF. EXTERIOR CONDUIT RUNS INTO BUILDINGS SHALL BE INSTALLED WITH FLASHING, CAULKED AND SEALED. CONDUITS FOR EXTERIOR ELECTRICAL DEVICES SHALL BE RUN INSIDE BUILDING, UNLESS OTHERWISE NOTED. UNDERGROUND AND EXTERIOR CONDUIT SHALL HAVE WATERTIGHT FITTINGS.

I. ALL CONDUITS SHALL BE A MINIMUM 3/4," UNLESS OTHERWISE NOTED. POWER AND LIGHTING BRANCH CIRCUITS SHALL HAVE A MINIMUM TWO (2) #12 AWG AND ONE (1) #12 AWG GROUND TYPE THWN/THHN. ALL POWER AND FIRE ALARM WIRING SHALL BE RUN IN CONDUIT. THE USE OF ROMEX (NMC) OR BX (AC) CABLE IS NOT PERMITTED. PROVIDE ALL WIRES AND WIRE SIZES REQUIRED BY LATEST CODES.

J. ALL WIRE SIZING SHOWN ON THE CONSTRUCTION DOCUMENTS UTILIZES ASSUMED ROUTING AND CIRCUIT LENGTHS TO DETERMINE VOLTAGE DROP. CONTRACTOR SHALL VERIFY ALL CIRCUIT LENGTHS WITH ACTUAL FIELD CONDITIONS AND SHALL PROVIDE INCREASED WIRE AND CONDUIT SIZES AS REQUIRED TO LIMIT FEEDERS TO A MAXIMUM OF 2% VOLTAGE DROP AND BRANCH CIRCUITRY TO A MAXIMUM OF 3% VOLTAGE DROP.

K. ALL POWER CIRCUITS SHALL HAVE A DEDICATED NEUTRAL. SHARED NEUTRALS WITH TIE-BARS AT THE BREAKERS IN THE PANEL SHALL NOT BE ALLOWED.

L. CONDUITS SHALL NOT BE USED AS A GROUND PATH. ALL CONDUITS SHALL CONTAIN A GROUNDING CONDUCTOR, SIZED PER NEC/CEC REQUIREMENTS.

M. NOTE THAT BRANCH CIRCUIT WIRING IS NOT SHOWN. CIRCUIT NUMBERS ARE SHOWN ADJACENT TO ALL OUTLETS/FIXTURES/DEVICES. PROVIDE ALL BRANCH CIRCUIT WIRING BASED ON CIRCUIT NUMBERS SHOWN TO COMPLETE THE WIRING SYSTEM.

N. THE CONTRACTOR SHALL, PRIOR TO BID, FIELD VERIFY ALL REQUIREMENTS FOR MODIFYING THE EXISTING DATA SYSTEMS TO ACCOMMODATE ADDITIONS NOTED. PROVIDE ALL MATERIALS NEEDED TO MAKE A FULLY OPERATIONAL SYSTEM AT THE CONCLUSION OF PROJECT WORK.

O. PROVIDE A PULL CORD IN EVERY EMPTY CONDUIT FOR USE IN FUTURE CONSTRUCTION. LABEL EACH END OF THE CONDUIT WITH TYPED, PERMANENT LABEL, TO IDENTIFY WHERE THE OPPOSING END TERMINATES.

P. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE LOCATING ALL EXISTING UNDERGROUND SYSTEMS IN THE AREA OF UNDER GROUND WORK. REPAIR ALL DAMAGED SYSTEMS TO OWNERS SATISFACTION. MAINTAIN EXTREME CARE DURING TRENCHING AS EXISTING SYSTEMS ARE KNOWN TO EXIST IN THE AREA. THE DRAWINGS AND SPECIFICATIONS ARE FOR THE ASSISTANCE AND GUIDANCE OF THE CONTRACTOR. EXACT LOCATIONS, DISTANCES AND ELEVATIONS WILL BE GOVERNED BY ACTUAL CONDITIONS. COORDINATE THE CONTRACT DOCUMENTS AND FIELD CONDITIONS TO DETERMINE EXACT ROUTING AND FINAL TERMINATIONS FOR ALL WORK.

Q. CONDUIT AND WIRING ARE SHOWN ON THESE PLANS DIAGRAMMATICALLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD TO SUIT SITE CONDITIONS.

R. PLANS SHALL BE APPROVED BY THE AUTHORITY HAVING JURISDICTION PRIOR TO BEGINNING WORK. SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO PURCHASE.

S. SUFFICIENT ACCESS AND WORKING SPACE SHALL BE PROVIDED AND MAINTAINED ABOUT ALL ELECTRIC EQUIPMENT TO PERMIT READY AND SAFE ORPERATION AND MAINTENANCE OF SUCH EQUIPMENT PER CEC ARTICLE 110-26.

T. ALL CONTROLS, SWITCHES, AND ELECTRICAL RECEPTACLE OUTLETS SHALL BE NOT MORE THAN +48" AFF TO TOP OF THE OUTLET BOX, NOR LESS THAN +15" AFF TO BOTTOM OF OUTLET BOX PER CBC 11B-308.1.

U. CONTRACTOR SHALL PERFORM ALL TESTING AND COMPLETE ALL DOCUMENTATION FOR THE LIGHTING AND LIGHTING CONTROLS SYSTEM ACCEPTANCE TESTING PER REQUIREMENTS OF CEC SECTION 130.4. SUBMIT ALL DOCUMENTATION TO THE AHJ.

CA: 1-800-227-2600
CALL BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
CA: 1-800-227-2600
CALL TWO WORKING DAYS BEFORE YOU DIG

May 10, 2024 - 11:25am - USER Dave Mahla
G:\shared drives\01_projects\gates & associates_81\2291.78 - pickleweed park\05_drawings\01_DWGs\2291.78 - E0.0 - GENERAL INFORMATION.DWG

atiumengineering
3533 York Lane
Santa Rosa, CA 95407
tel: 913.961.1668
email: mail@atiumeng.com

NO.	REVISION	BY	DATE

DESIGNED D.M
DRAWN D.M
CHECKED T.L
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS
SAN RAFAEL COUNTY OF MARIN CALIFORNIA

DRAWING NAME
GENERAL INFORMATION

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING - URBAN DESIGN
www.gates-assoc.com
T 650.780.5770 www.gates.com

NOT FOR CONSTRUCTION

REGISTERED PROFESSIONAL ENGINEER DAVID M. MAHLA 19202 ELECTRICAL STATE OF CALIFORNIA

100% CDS

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE:
DATE: 05/15/24
CITY PROJECT NO.:
SHEET NO.: E0.0

GENERAL NOTES

A. PROVIDE SEPARATE PULL BOXES FOR POWER, LIGHTING, AND COMMUNICATIONS CONDUIT. LABEL THE LID OF EACH BOX AS TO ITS CONTENTS.

B. AREA MAY CONTAIN UNDERGROUND RACEWAY. SITE LOCATE ALL EXISTING UNDERGROUND RACEWAY IN THIS AREA BEFORE TRENCHING. MAINTAIN EXTREME CARE WHEN TRENCHING.

C. COORDINATE EXACT LOCATIONS OF ALL LANDSCAPING AND CIVIL EQUIPMENT WITH LANDSCAPING AND CIVIL DRAWINGS.

D. CIRCUIT ALL DEVICES ON THIS SHEET TO PANELBOARD LB, UNLESS OTHERWISE NOTED.

E. CIRCUIT EXTERIOR LIGHT FIXTURES VIA LCP-B. SEE DETAIL 1/E6.0.

F. SEE DRAWING E8.0 FOR LIGHT FIXTURE MOUNTING DETAILS.

G. CERTAIN FEEDER AND BRANCH CIRCUIT WIRE SIZES HAVE BEEN OVERSIZED TO COMPENSATE FOR VOLTAGE DROP. SPLICE WIRES TO COMPATIBLE SIZES FOR TERMINATION, ADJACENT TO EQUIPMENT CONNECT AS REQUIRED.

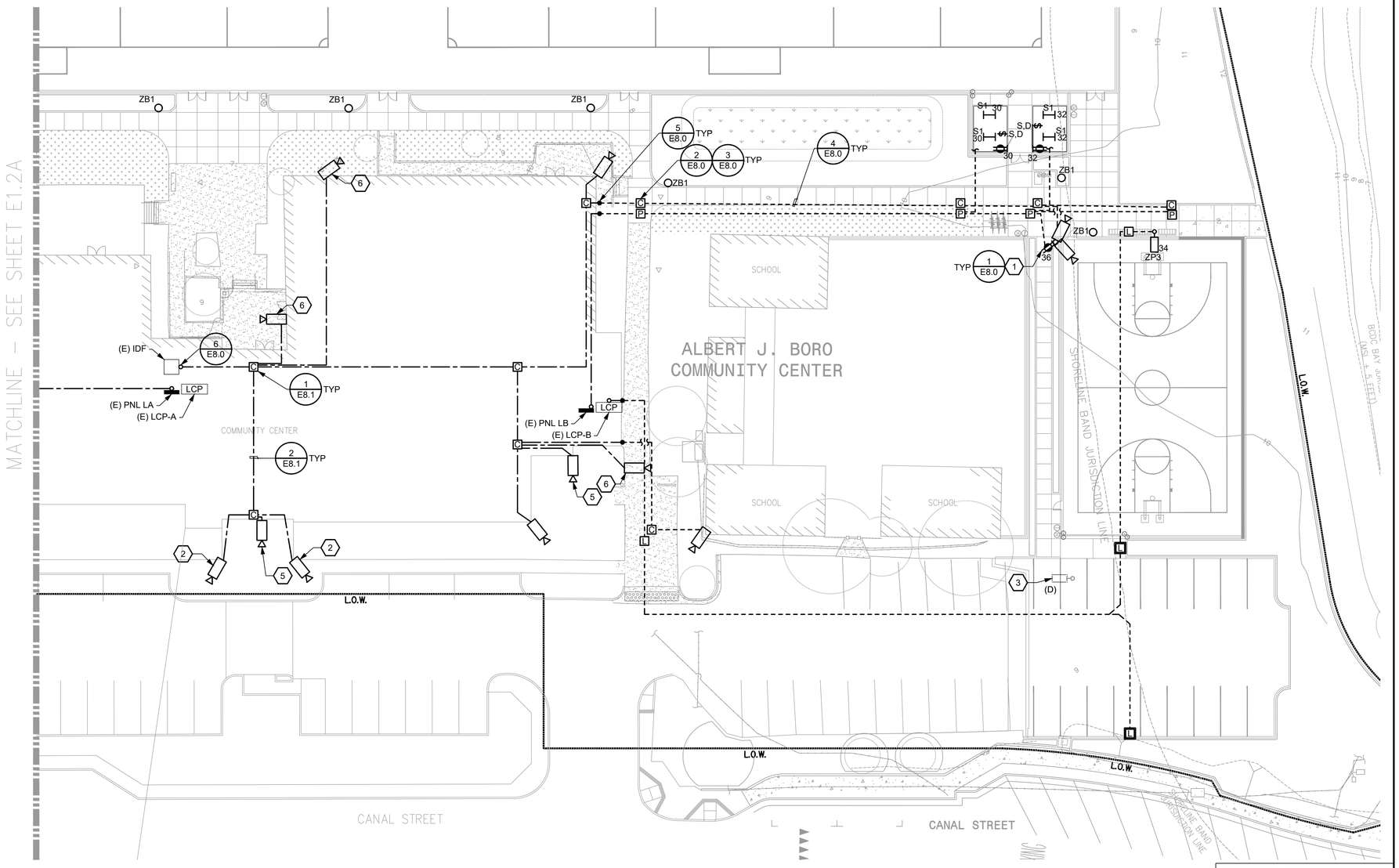
H. CONTRACTOR SHALL SIZE ALL PULL BOXES PER CODE OR FOR THEIR CONVENIENCE FOR PULLING WIRE, WHICHEVER IS LARGER.

I. EXISTING ROOF IS KNOWN TO CHANGE ELEVATION. PROVIDE ADDITIONAL PULL BOXES, CONDUIT TRANSITIONS, AND FLEXIBLE CONNECTIONS BETWEEN SEPARATE STRUCTURES AS REQUIRED TO SUIT ACTUAL SITE CONDITIONS.

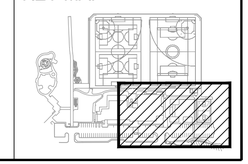
J. ADD-ALTERNATE #2: ALL CONDUIT, WIRING, DEVICES, AND J-BOXES ASSOCIATED WITH THE SECURITY CAMERA SCOPE OF WORK SHOWN SHALL BE PROVIDED AS AN ADD-ALTERNATE. PROVIDE SEPARATE COST LINE ITEMS FOR THESE ITEMS ON THE BID DOCUMENTS.

(#) SHEET NOTES

1. ADD-ALTERNATE #2: PROVIDE 16'-0" TALL, 4"X4" SQUARE POLE FOR FUTURE CAMERA. PROVIDE (1) PAIR OF FIBER FROM IDF TO POLE FOR FUTURE CAMERA IN 1-1/2" C. PROVIDE 18" X 18" X 6" NEMA 4X ENCLOSURE AT TOP OF POLE. COIL AN EXTRA 6'-0" OF FIBER WITHIN ENCLOSURE. MOUNT RECEPTACLE WITHIN ENCLOSURE.
2. ADD-ALTERNATE #2: MOUNT DATA JACK IN WEATHERPROOF ENCLOSURE ON ROOF OF ENTRY OVERHANG FOR FUTURE CAMERA LOCATION. PROVIDE DATA CABLE FROM FUTURE CAMERA LOCATION BACK TO IDF. ROUTE CONDUITS EXPOSED ON ROOF, TYP.
3. (D) LIGHT FIXTURE, POLE, AND ASSOCIATED FOUNDATION. REMOVE CONDUIT BACK TO POINT OF CONCEALMENT WHERE IT CAN BE ADANDONED AND PROPERLY COVERED WITH NEW SURFACE FINISH MATERIAL. REMOVE WIRING BACK TO SOURCE AND MODIFY WIRING AS REQUIRED TO MAINTAIN FUNCTIONALITY OF ANY OTHER FIXTURES CIRCUITED VIA (D) FIXTURE.
4. CIRCUIT LIGHT FIXTURES WITH (2) #10 + (1) #10G - 3/4" C.
5. ADD-ALTERNATE #2: MOUNT DATA JACK IN WEATHERPROOF ENCLOSURE CENTERED ABOVE ENTRY DOOR BELOW ROOF OF ENTRY OVERHANG FOR FUTURE CAMERA LOCATION. PROVIDE DATA CABLE FROM FUTURE CAMERA LOCATION BACK TO IDF. ROUTE CONDUITS EXPOSED ON ROOF, TYP.
6. ADD-ALTERNATE #2: PROVIDE NEW DATA JACK IN WEATHERPROOF ENCLOSURE NEXT TO (E) CAMERA LOCATION. PROVIDE DATA CABLE FROM FUTURE CAMERA LOCATION BACK TO IDF. ROUTE CONDUITS EXPOSED ON ROOF, TYP.



KEY MAP



0' 10' 20' 40'

0" ½" 1" 2"

CA: 1-800-227-2600
CALL BEFORE YOU DIG
USA
UNDERGROUND SERVICE ALERT
CA: 1-800-227-2600
CALL TWO WORKING DAYS BEFORE YOU DIG

atiumengineering
3533 York Lane
Sonoma, CA 95492
tel: 913.961.1668
email: mario@atiumeng.com

NO.	REVISION	BY	DATE

DESIGNED DM
DRAWN DM
CHECKED TL
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
ELECTRICAL SITE PLAN – PHASE 1

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
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www.gates-assoc.com

NOT FOR CONSTRUCTION

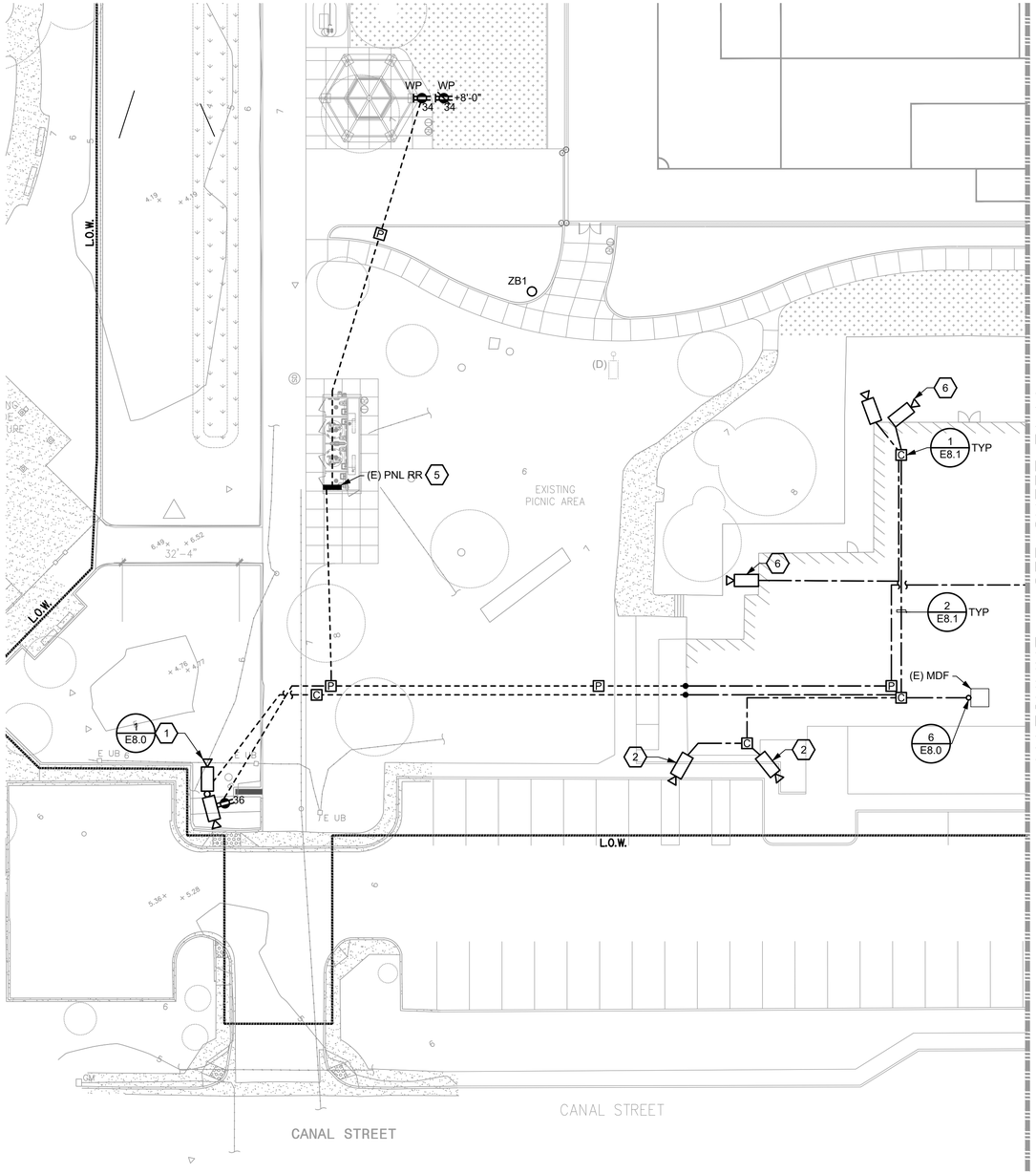
REGISTERED PROFESSIONAL ENGINEER
DAVID MARIO
No. E-19203
EXP. 6-30-2025
ELECTRICAL
STATE OF CALIFORNIA

100% CDS

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE:
DATE: 05/15/24
CITY PROJECT NO.:
SHEET NO.: E1.1A

May 10, 2024 - 11:25am - USER Dave Maino
G:\shared drives\01_projects\gates & associates_81\2291.78 - pickleweed park\05_drawings\01_DWGs\2291.78 - E1.0 - SITE PLAN.DWG



GENERAL NOTES

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C. COORDINATE EXACT LOCATIONS OF ALL LANDSCAPING AND CIVIL EQUIPMENT WITH LANDSCAPING AND CIVIL DRAWINGS.

D. CIRCUIT ALL DEVICES ON THIS SHEET TO PANELBOARD LA, UNLESS OTHERWISE NOTED.

E. CIRCUIT EXTERIOR LIGHT FIXTURES VIA LCP-A. SEE DETAIL 1/E6.0.

F. SEE DRAWING E8.0 FOR LIGHT FIXTURE MOUNTING DETAILS.

G. CERTAIN FEEDER AND BRANCH CIRCUIT WIRE SIZES HAVE BEEN OVERSIZED TO COMPENSATE FOR VOLTAGE DROP. SPLICE WIRES TO COMPATIBLE SIZES FOR TERMINATION, ADJACENT TO EQUIPMENT CONNECT AS REQUIRED.

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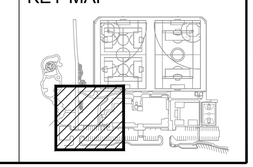
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2. ADD-ALTERNATE #2: MOUNT DATA JACK IN WEATHERPROOF ENCLOSURE ON ROOF OF ENTRY OVERHANG FOR FUTURE CAMERA LOCATION. PROVIDE DATA CABLE FROM FUTURE CAMERA LOCATION BACK TO IDF. ROUTE CONDUITS EXPOSED ON ROOF, TYP.
3. PROVIDE LOCKABLE, WEATHERPROOF, CAST METAL, IN-USE COVER FOR RECEPTACLE. CIRCUIT TO SPARE 20A/1P CIRCUIT BREAKER IN PRE-FAB RESTROOM BUILDING PANELBOARD WITH (2) #12 + (1) #12G - 3/4" C.
4. NOT USED
5. PROVIDE CONNECTION TO PRE-FAB RESTROOM BUILDING PANELBOARD. COORDINATE POINT OF CONNECTION WITH RESTROOM MANUFACTURER.
6. ADD-ALTERNATE #2: PROVIDE NEW DATA JACK IN WEATHERPROOF ENCLOSURE NEXT TO (E) CAMERA LOCATION. PROVIDE DATA CABLE FROM FUTURE CAMERA LOCATION BACK TO IDF. ROUTE CONDUITS EXPOSED ON ROOF, TYP.

KEY MAP



0' 10' 20' 40'
0 ½" 1" 2"

CA: 1-800-227-2600
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UNDERGROUND SERVICE ALERT
CA: 1-800-227-2600
CALL TWO WORKING DAYS BEFORE YOU DIG

atiumengineering
3333 York Lane
Santa Rosa, CA 95407
tel: 913.961.1668
email: mario@atiumeng.com

NO.	REVISION	BY	DATE

DESIGNED D.M
DRAWN D.M
CHECKED T.L
APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
ELECTRICAL SITE PLAN – PHASE 1

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING · URBAN DESIGN
T 925.756.2778 www.gatesla.com

NOT FOR CONSTRUCTION

REGISTERED PROFESSIONAL ENGINEER
DAVID MARIO
19203
EXP. 6-30-25
ELECTRICAL
STATE OF CALIFORNIA

100% CDS

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE:
DATE: 05/15/24
CITY PROJECT NO.:
SHEET NO.: E1.2A

FILE LOCATION: G:\shared drives\01_projects\gates & associates_9\12291.78 - pickleweed park\05_drawings\01_DWGs\12291.78 - E1.0 - SITE PLAN.DWG
LAST SAVED ON: 5/02/24 at 12:56pm; PLOTTED ON: 5/10/24 at 1:25am SITE PLAN.DWG

atiumengineering
3533 York Lane
Sonoma, CA 95492
tel: 913.961.1668
email: mario@atiumeng.com

GENERAL NOTES

A. PROVIDE SEPARATE PULL BOXES FOR POWER, LIGHTING, AND COMMUNICATIONS CONDUIT. LABEL THE LID OF EACH BOX AS TO ITS CONTENTS.

B. AREA MAY CONTAIN UNDERGROUND RACEWAY. SITE LOCATE ALL EXISTING UNDERGROUND RACEWAY IN THIS AREA BEFORE TRENCHING. MAINTAIN EXTREME CARE WHEN TRENCHING.

C. COORDINATE EXACT LOCATIONS OF ALL LANDSCAPING AND CIVIL EQUIPMENT WITH LANDSCAPING AND CIVIL DRAWINGS.

D. CIRCUIT ALL DEVICES ON THIS SHEET TO PANELBOARD LB, UNLESS OTHERWISE NOTED.

E. CIRCUIT EXTERIOR LIGHT FIXTURES VIA LCP-B. SEE DETAIL 1/E6.0.

F. SEE DRAWING E8.0 FOR LIGHT FIXTURE MOUNTING DETAILS.

G. CERTAIN FEEDER AND BRANCH CIRCUIT WIRE SIZES HAVE BEEN OVERSIZED TO COMPENSATE FOR VOLTAGE DROP. SPLICE WIRES TO COMPATIBLE SIZES FOR TERMINATION, ADJACENT TO EQUIPMENT CONNECT AS REQUIRED.

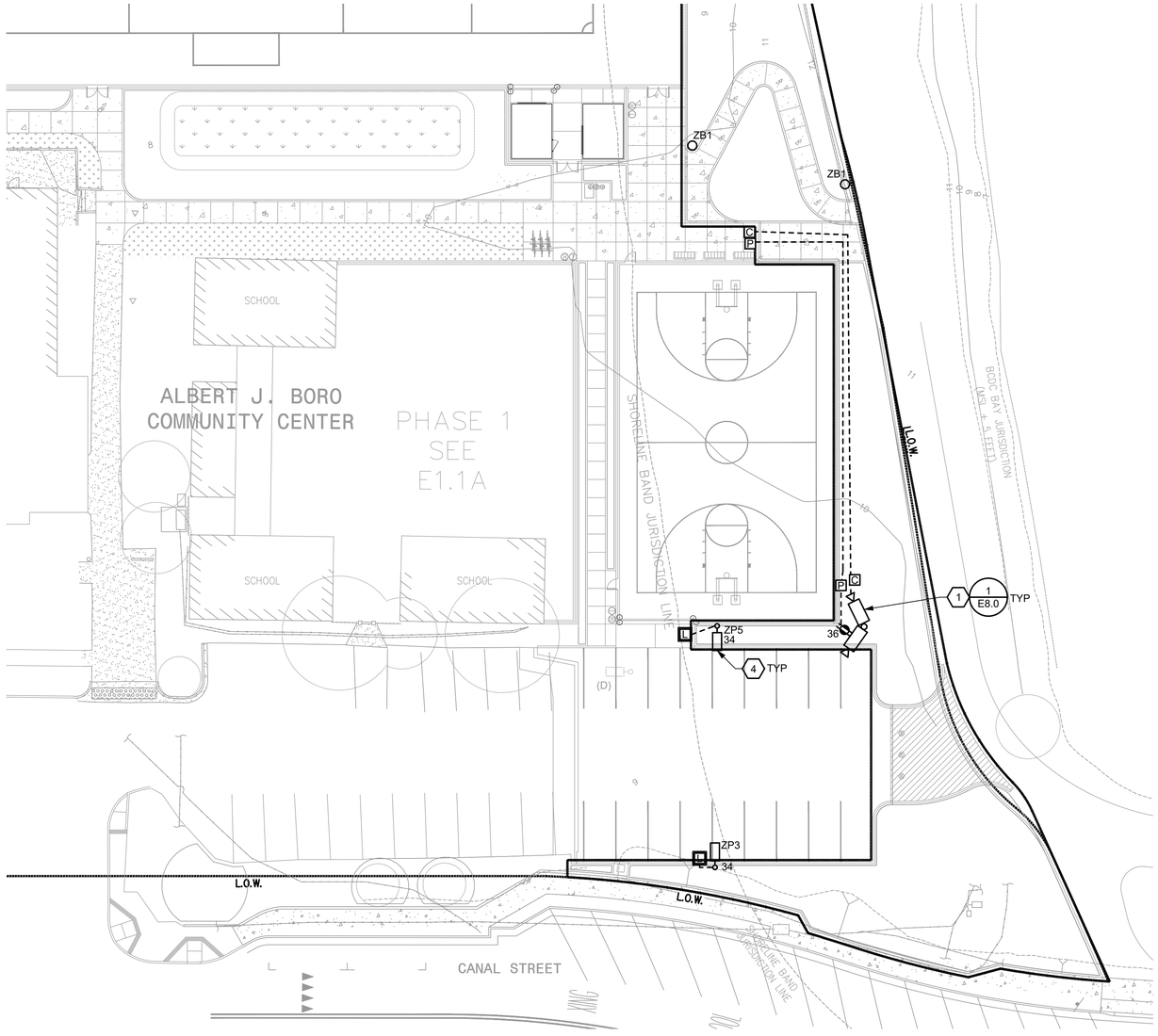
H. CONTRACTOR SHALL SIZE ALL PULL BOXES PER CODE OR FOR THEIR CONVENIENCE FOR PULLING WIRE, WHICHEVER IS LARGER.

I. EXISTING ROOF IS KNOWN TO CHANGE ELEVATION. PROVIDE ADDITIONAL PULL BOXES, CONDUIT TRANSITIONS, AND FLEXIBLE CONNECTIONS BETWEEN SEPARATE STRUCTURES AS REQUIRED TO SUIT ACTUAL SITE CONDITIONS.

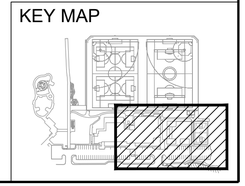
J. ADD-ALTERNATE #2: ALL CONDUIT, WIRING, DEVICES, AND J-BOXES ASSOCIATED WITH THE SECURITY CAMERA SCOPE OF WORK SHOWN SHALL BE PROVIDED AS AN ADD-ALTERNATE. PROVIDE SEPARATE COST LINE ITEMS FOR THESE ITEMS ON

SHEET NOTES

1. ADD-ALTERNATE #2: PROVIDE 16'-0" TALL, 4"X4" SQUARE POLE FOR FUTURE CAMERA. PROVIDE (1) PAIR OF FIBER FROM IDF TO POLE FOR FUTURE CAMERA IN 1-1/2" C. PROVIDE 18" X 18" X 6" NEMA 4X ENCLOSURE AT TOP OF POLE. COIL AN EXTRA 6'-0" OF FIBER WITHIN ENCLOSURE. MOUNT RECEPTACLE WITHIN ENCLOSURE.
2. CIRCUIT LIGHT FIXTURES WITH (2) #10 + (1) #10G - 3/4" C.



KEY MAP



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May 10, 2024 - 11:26am - USER Dave Mahn
G:\shared drives\01_projects\gates & associates_sh\2291.78 - pickleweed park\05_drawings\01_DWGs\2291.78 - E1.0 - SITE PLAN.DWG

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APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
ELECTRICAL SITE PLAN – PHASE 2

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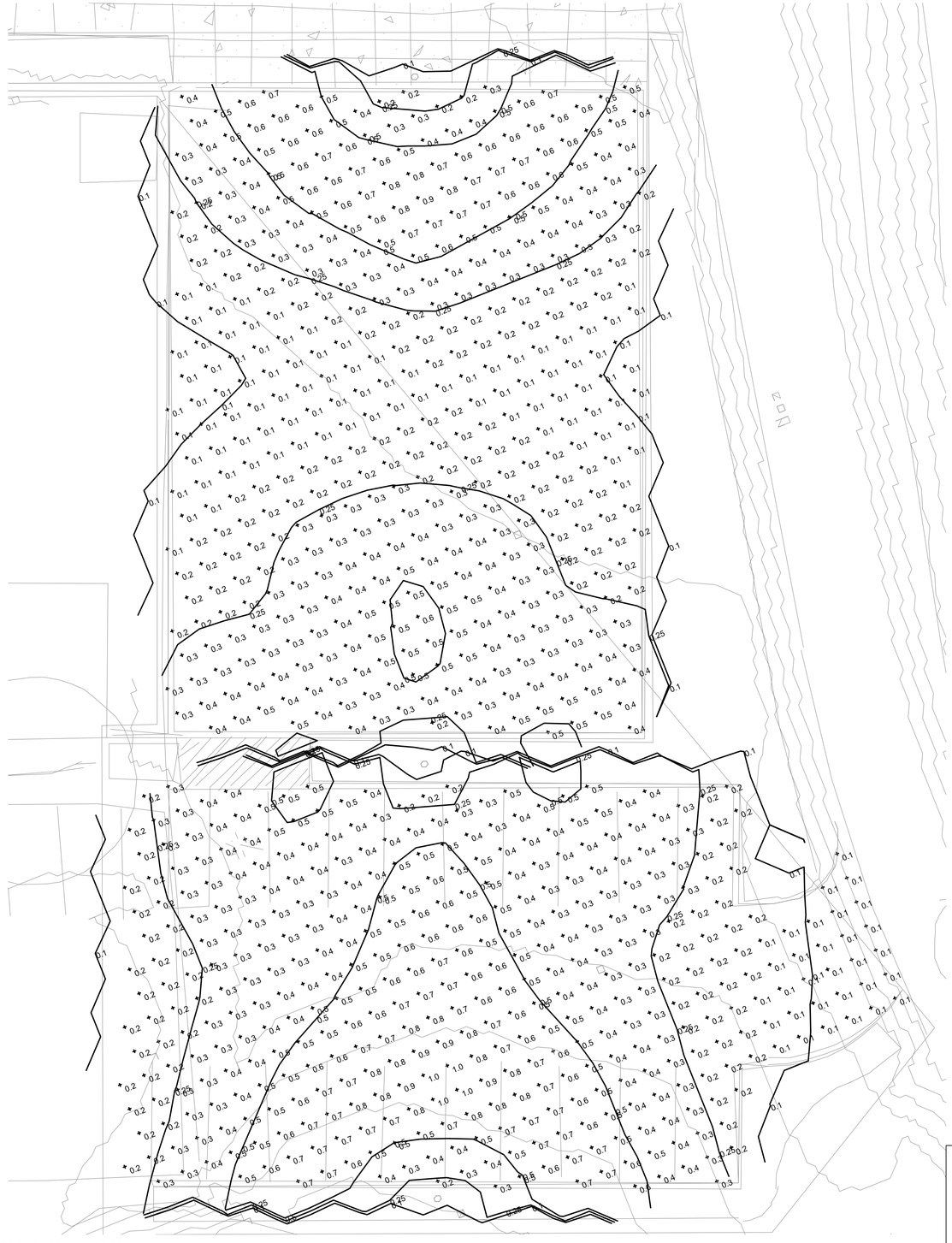
REGISTERED PROFESSIONAL ENGINEER
DAVID MAHN
No. E-19203
EXP. 6-30-25
ELECTRICAL
STATE OF CALIFORNIA

100% CDS

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE:
DATE: 05/15/24
CITY PROJECT NO.:
SHEET NO.: E1.1B

Calc Zone #1		
Average	0.4	fc
Maximum	1.0	fc
Minimum	0.1	fc
Max/Min	10.0:1	
Average/Min	4.0:1	
Calc Zone #2		
Average	0.3	fc
Maximum	0.9	fc
Minimum	0.1	fc
Max/Min	9.0:1	
Average/Min	3.0:1	



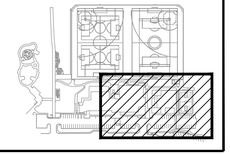
1 SITE LIGHTING CALCS

1" = 10'-0"

0' 10' 20' 40'

0" ½" 1" 2"

KEY MAP



atiumengineering
3333 York Lane
Sonoma, CA 95492
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email: mario@atiumeng.com

NO.	REVISION	BY	DATE

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APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
SITE LIGHTING CALCS

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

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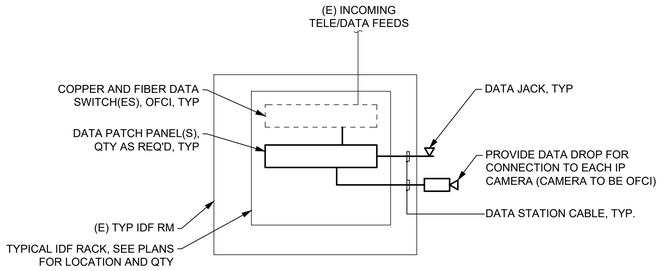
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SCALE:
DATE: 05/15/24
CITY PROJECT NO.:
SHEET NO.: E2.1

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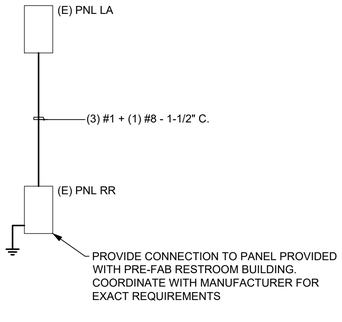
May 10, 2024 - 11:26am - USER Dave Mario
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DETAIL NOTES:
A. TYPICAL DEVICE CONNECTIONS SHOWN. REFER TO FLOOR PLANS FOR EXACT QUANTITY AND LOCATION OF DEVICES.

2 TELE/DATA WIRING DIAGRAM

NTS



3 POWER RISER DIAGRAM

NTS

VOLTAGE DROP LIMITATIONS

SUMMARY OF MAXIMUM FEEDER AND BRANCH CIRCUIT LENGTHS

WIRE (AWG)	CIRCUIT AMPS (A)	MAXIMUM FEEDER LENGTH (ft)					MAXIMUM BRANCH CIRCUIT LENGTH (ft)				
		120V	208V	240V	277V	480V	120V	208V	240V	277V	480V
14	12	39	67	78	90	156	58	101	117	135	233
12	16	46	80	93	107	185	69	120	139	160	278
10	24	48	83	96	111	192	72	125	144	166	288
8	32	57	99	115	132	229	86	149	172	199	344
6	40	73	127	146	169	293	110	190	220	253	439
4	52	89	154	178	206	356	134	232	267	309	535
2	72	103	178	206	237	412	154	267	309	356	617
0	96	123	212	245	283	490	184	319	368	424	735
00	108	137	238	274	317	549	206	357	412	475	823
0000	144	163	283	327	377	654	245	425	490	566	980
250	164	170	294	340	392	679	255	441	509	588	1019
300	184	181	314	362	418	725	272	471	543	627	1087
350	200	195	338	390	450	779	292	506	584	675	1169
500	248	224	388	448	517	896	336	582	572	776	1344

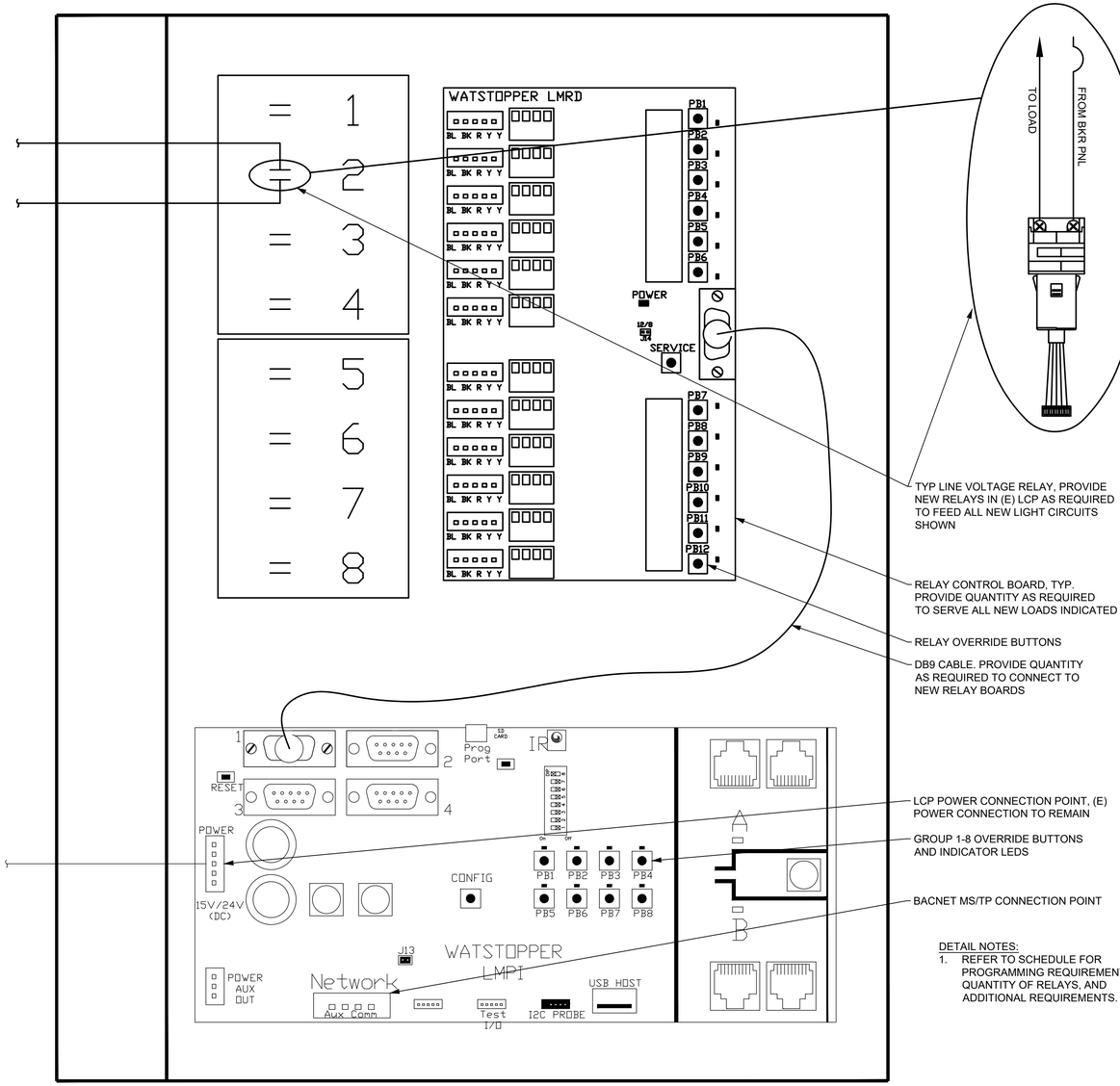
SUMMARY OF VOLT DROP LIMITS

CIRCUIT VOLTS (V)	2% VOLTAGE DROP (V)	3% VOLTAGE DROP (V)	5% VOLTAGE DROP (V)
120	2.4	3.6	6.0
208	4.2	6.2	10.4
240	4.8	7.2	12.0
277	5.5	8.3	13.9
480	9.6	14.4	24.0

NOTES:

1. TABLE ABOVE IS FOR COPPER WIRING ONLY.
2. IF FIELD CONDITIONS RESULT IN WIRE SIZES NOTED ABOVE EXCEEDING THE LENGTHS NOTED ABOVE, CONTRACTOR SHALL INCREASE WIRE AND CONDUIT SIZE AS REQUIRED TO MEET VOLTAGE DROP REQUIREMENTS.
3. FEEDERS SHALL BE LIMITED TO A MAXIMUM OF 2% VOLTAGE DROP.
4. BRANCH CIRCUITS SHALL BE LIMITED TO A MAXIMUM OF 3% VOLTAGE DROP.
5. TOTAL VOLTAGE DROP FOR ELECTRICAL DISTRIBUTION SYSTEM (FEEDER + BRANCH CIRCUIT) SHALL BE LIMITED TO A MAXIMUM OF 5% VOLTAGE DROP.

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DETAIL NOTES:
1. REFER TO SCHEDULE FOR PROGRAMMING REQUIREMENTS, QUANTITY OF RELAYS, AND ADDITIONAL REQUIREMENTS.

1 (E) LIGHTING CONTROL PANEL TYPICAL WIRING DIAGRAM

NTS

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APPROVED
DATE

PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS
DRAWING NAME
ELECTRICAL DIAGRAMS
SAN RAFAEL COUNTY OF MARIN CALIFORNIA

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
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REGISTERED PROFESSIONAL ENGINEER
DAVID M. MARINO
No. E19203
EXP. 6-30-25
ELECTRICAL
STATE OF CALIFORNIA

100% CDS

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE:
DATE: 05/15/24
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SHEET NO.: E6.0

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LUMINAIRE SCHEDULE

FIXTURE TAG KEY: G = GROUND MOUNT; L = LINEAR FIXTURES THAT HAVE VARIABLE LENGTH ON THE PROJECT; P = PENDANT MOUNTED; R = RECESSED; S = SURFACE MOUNTED;
T = TRACK OR TRACK HEAD; W = WALL MOUNTED; X = EXIT SIGNS; Y = POLE MOUNTED; Z = EXTERIOR - TO PRECEDE OTHER FIXTURE TAGS - E.G. ZW1 WOULD BE AN EXTERIOR WALL MOUNTED FIXTURE

FIXTURE TAG	INPUT WATTS (W)	LIGHT SOURCE	COLOR TEMP (K)	CRI	OUTPUT (LUMENS)	EFFICACY (LPW)	LED DRIVER OR BALLAST	VOLTS (V)	DESCRIPTION	MANUFACTURER	REMARKS
S1	31.2	LED	3500	80	5360	171.8	INTEGRAL 0-10V DIMMING DRIVER	UNIVERSAL	4' LINEAR SURFACE MOUNTED LED STRIP FIXTURE. ROUNDED ACRYLIC LENS. 22-GAUGE DIE-FORMED STEEL HOUSING.	HE WILLIAMS 75R SERIES 75R-4-L50-8-35-DIM-UNV OR APPROVED EQUAL	
ZB1	N/A	LED	4000	70	N/A	N/A	INTEGRAL LED DRIVER	N/A	6.3" DIA ROUND SOLAR POWERED LED MARKER LIGHT BOLLARD. BLACK FINISH. EXTRUDED ALUMINUM HOUSING. 0.45" THICK GLASS LEND. EMBEDED ANCHOR BASE.	METEOR LIGHTING SP-010 SERIES SP010-40K-BLK-RD-AKE OR APPROVED EQUAL	1. WAYFINDING MARKER LIGHT ONLY. NOT INTENDED TO PROVIDE LIGHT ALONG PATH OF TRAVEL (PATH OF TRAVEL ILLUMINATED BY (E) BUILDING MOUNTED LIGHTS AND POLE LIGHTS) 2. SOLAR POWERED BOLLARD, NO ELECTRICAL CONNECTION REQUIRED.
ZP3	45	LED	4000	70	4954	110.0888889	INTEGRAL 0-10V LED DIMMING DRIVER	UNIVERSAL	ROUND LED POST-TOP FIXTURE. TYPE 3 DISTRIBUTION. RAIN PATTERN POLYCARBONATE LENS. SPUN ALUMINUM HOOD. DIE CAST ALUMINUM HOUSING. FULLY GASKETED OPTICAL CHAMBER. HOUSE SIDE SHIELD. IP 66 RATED. 20'-0" TALL TAPERED POLE. GREY FINISH FOR POLE AND FIXTURE HEAD.	HOLOPHANE CONTEMPO LED 245L SERIES 245L-P153-MVOLT-40K-R3-RNP-GY-SD-PR3-HSS HEAD WITH AORTS-20-59B-C03-NDR-GR-NCV POLE OR APPROVED EQUAL.	1. ORIENT FIXTURE SUCH THAT LIGHT IS DIRECTED TOWARDS WHERE THE FIXTURE IS FACING ON THE PLANS. 2. PROGRAM LCP WITH SAME SCHEDULE AS (E) EXTERIOR FIXTURES.
ZP5	45	LED	4000	70	4954	110.0888889	INTEGRAL 0-10V LED DIMMING DRIVER	UNIVERSAL	SIMILAR TO TYPE ZP3, EXCEPT TYPE 5 DISTRIBUTION AND WITHOUT HOUSE SIDE SHIELD.	HOLOPHANE CONTEMPO LED 245L SERIES 245L-P153-MVOLT-40K-R5-RNP-GY-SD-PR3 HEAD WITH AORTS-20-59B-C03-NDR-GR-NCV POLE OR APPROVED EQUAL.	1. PROGRAM LCP WITH SAME SCHEDULE AS (E) EXTERIOR FIXTURES.

PANELBOARD (E) LA

VOLTAGE: 208/120 V
PHASE/WIRE: 3 PH 4W
MAIN AMPS: MLO
BUS AMPS: 225 A
AIC RATING 14000 A
MOUNTING: SURFACE
BUSSING: TIN-PLATED COPPER

PHASE A:	3840 VA	32 A
PHASE B:	10140 VA	84.5 A
PHASE C:	9420 VA	78.5 A
CONNECTED:	23400 VA	65 A
DEMAND:	25980 VA	72.2 A

NOTES	LOAD DESCRIPTION	φ	VA		BKR	CKT	CKT	BKR	VA		φ	LOAD DESCRIPTION	NOTES
	(E) LTG RR	A	600	L	(E)20/1	1	2	(E)20/1	L 600		A	(E) MPR PENDANT	
	(E) LTG CORR	B	600	L	(E)20/1	3	4	(E)20/1	L 600		B	(E) MPR PENDANT	
	(E) LTG CR/MTG	C	600	L	(E)20/1	5	6	(E)20/1	L 600		C	(E) MPR WALL	
	(E) LTG COMP/ELEC	A	600	L	(E)20/1	7	8	(E)20/1	L 600		A	(E) MPR WALL	
	(E) LTG LOUNGE/HW	B	600	L	(E)20/1	9	10	(E)20/1	L 600		B	(E) MPR TRACK	
	(E) LTG LIBRARY	C	600	L	(E)20/1	11	12	(E)20/1	L 600		C	(E) MPR TRACK	
	(E) LCP-A	A	240	G	(E)20/1	13	14	(E)20/1	L 600		A	(E) MPR TRACK	
	(E) LOAD	B	600	L	(E)20/1	15	16	(E)20/1	L 600		B	(E) MPR TRACK	
	(E) SPARE	C			(E)20/1	17	18	(E)20/1	L 600		C	(E) EXT LTG	
	(E) SPARE	A			(E)20/1	19	20	(E)20/1	L 600		A	(E) EXT LTG	
	(E) SPARE	B			(E)20/1	21	22	(E)20/1	WH 120		B	(E) GAS WH	
	(E) SPARE	C			(E)20/1	23	24	(E)20/1			C	(E) SPARE	
	(E) SPARE	A			(E)20/1	25	26	(E)20/1			A	(E) SPARE	
	(E) SPARE	B			(E)20/1	27	28	(E)20/1			B	(E) SPARE	
	(E) SPARE	C			(E)20/1	29	30	(E)20/1			C	(E) SPARE	
	(E) SPARE	A			(E)20/1	31	32	(E)20/1			A	(E) SPARE	
	(E) SPARE	B			(E)20/1	33	34	(E)20/1	R 180		B	TRELLIS REC	2
	(E) SPARE	C			(E)20/1	35	36	(E)20/1	R 180		C	CAMERA REC	2
	(E) SPACE	A				37	38				A	(E) SPACE	
	(E) SPACE	B				39	40	100/2	G 6240		B	PNL RR	1
	(E) SPACE	C				41	42		G 6240		C		

GENERAL NOTES

a. PROVIDE UPDATED, TYPED PANEL SCHEDULE AT COMPLETION OF CONSTRUCTION.
b.
c.
d.
e.

SCHEDULE NOTES

1. PROVIDE NEW BKR IN (E) SPACE
2. CONNECT NEW CKT TO (E) SPARE BKR
3.
4.
5.
6.

LOAD TYPE	LOAD DESCRIPTION	CONNECTED (kVA)	SUBFED (kVA)	TOTAL BY TYPE (kVA)	DEMAND FACTOR (kVA)	DEMAND BY TYPE (kVA)
G	GENERAL	12.72	0.00	12.72	100%	12.72
L	LIGHTING	10.20	0.00	10.20	125%	12.75
R	RECEPTACLES	0.36	0.00	0.36	100%/50%	0.36
K	KITCHEN	0.00	0.00	0.00	100%	0.00
H	HEATING	0.00	0.00	0.00	100%	0.00
M	MOTORS	0.00	0.00	0.00	100%	0.00
LM	LARGEST MOTOR	0.00	0.00	0.00	125%	0.00
WH	WATER HEATER	0.12	0.00	0.12	125%	0.15
C	CONTINUOUS	0.00	0.00	0.00	125%	0.00

PANELBOARD (E) LB

VOLTAGE: 208/120 V
PHASE/WIRE: 3 PH 4W
MAIN AMPS: MLO
BUS AMPS: 225 A
AIC RATING 14000 A
MOUNTING: SURFACE
BUSSING: TIN-PLATED COPPER

PHASE A:	5644 VA	47 A
PHASE B:	5990 VA	49.9 A
PHASE C:	6024 VA	50.2 A
CONNECTED:	17658 VA	49.1 A
DEMAND:	20968 VA	58.2 A

NOTES	LOAD DESCRIPTION	φ	VA		BKR	CKT	CKT	BKR	VA		φ	LOAD DESCRIPTION	NOTES
	(E) LTG GYM	A	600	L	(E)20/1	1	2	(E)20/1	L 600		A	(E) LOBBY PENDANT	
	(E) LTG GYM	B	600	L	(E)20/1	3	4	(E)20/1	L 600		B	(E) LOBBY PENDANT	
	(E) LTG GYM	C	600	L	(E)20/1	5	6	(E)20/1	L 600		C	(E) LOBBY VALANCE	
	(E) LTG GYM	A	600	L	(E)20/1	7	8	(E)20/1	L 600		A	(E) LTG CORRIDOR	
	(E) LTG GYM	B	600	L	(E)20/1	9	10	(E)20/1	L 600		B	(E) LTG TEEN, RR	
	(E) LTG GYM	C	600	L	(E)20/1	11	12	(E)20/1	L 600		C	(E) LTG ART RM A	
	(E) LTG GYM	A	600	L	(E)20/1	13	14	(E)20/1	L 600		A	(E) LTG ART RM B	
	(E) LTG GYM	B	600	L	(E)20/1	15	16	(E)20/1	G 240		B	(E) LCP-B	
	(E) EXT LTG	C	600	L	(E)20/1	17	18	(E)20/1	L 600		C	(E) LOAD	
	(E) EXT LTG	A	600	L	(E)20/1	19	20	(E)20/1	L 600		A	(E) LOAD	
	(E) LOAD	B	2000	G	(E) 30/2	21	22	(E)20/1			B	(E) SPARE	
		C	2000	G		23	24	(E)20/1			C	(E) SPARE	
	(E) LOAD	A	600	L	(E)20/1	25	26	(E)20/1			A	(E) SPARE	
	(E) LOAD	B	600	L	(E)20/1	27	28	(E)20/1			B	(E) SPARE	
	(E) SPARE	C			(E)20/1	29	30	(E)20/1	L 244		C	SHED 1 POWER	2,3
	(E) SPARE	A			(E)20/1	31	32	(E)20/1	L 244		A	SHED 2 POWER	2,3
	(E) SPARE	B			(E)20/1	33	34	(E)20/1	L 150		B	POLE LIGHTING	2
	(E) SPARE	C			(E)20/1	35	36	(E)20/1	R 180		C	CAMERA REC	2
	(E) SPACE	A				37	38				A	(E) SPACE	
	(E) SPACE	B				39	40				B	(E) SPACE	
	(E) SPACE	C				41	42				C	(E) SPACE	

GENERAL NOTES

a. PROVIDE UPDATED, TYPED PANEL SCHEDULE AT COMPLETION OF CONSTRUCTION.
b.
c.
d.
e.

SCHEDULE NOTES

1. PROVIDE NEW BKR IN (E) SPACE
2. CONNECT NEW CKT TO (E) SPARE BKR
3. CIRCUIT SHED DEVICES WITH (2) #10 + (1) #10G - 3/4" C
4.
5.
6.

LOAD TYPE	LOAD DESCRIPTION	CONNECTED (kVA)	SUBFED (kVA)	TOTAL BY TYPE (kVA)	DEMAND FACTOR (kVA)	DEMAND BY TYPE (kVA)
G	GENERAL	4.24	0.00	4.24	100%	4.24
L	LIGHTING	13.24	0.00	13.24	125%	16.55
R	RECEPTACLES	0.18	0.00	0.18	100%/50%	0.18
K	KITCHEN	0.00	0.00	0.00	100%	0.00
H	HEATING	0.00	0.00	0.00	100%	0.00
M	MOTORS	0.00	0.00	0.00	100%	0.00
LM	LARGEST MOTOR	0.00	0.00	0.00	125%	0.00
WH	WATER HEATER	0.00	0.00	0.00	125%	0.00
C	CONTINUOUS	0.00	0.00	0.00	125%	0.00

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atiumengineering
3533 York Lane
Santa Rosa, CA 95407
tel: 913.961.1668
email: mario@atiumeng.com

NO.	REVISION	BY	DATE

DESIGNED D.M
DRAWN D.M
CHECKED T.L
APPROVED
DATE

PROJECT NAME **PICKLEWEED PARK ENHANCEMENTS**
DRAWING NAME ELECTRICAL SCHEDULES
SAN RAFAEL COUNTY OF MARIN CALIFORNIA

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING - URBAN DESIGN
SAN FRANCISCO, OAKLAND, SACRAMENTO, LOS ANGELES
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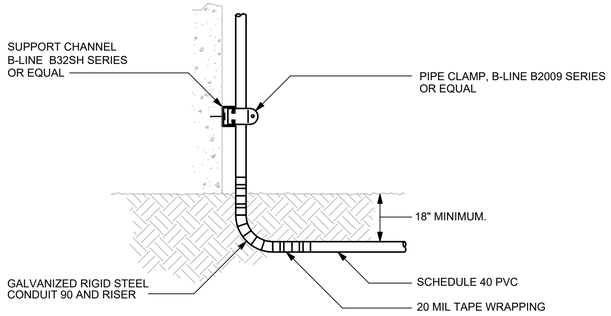
REGISTERED PROFESSIONAL ENGINEER DAVID M. MAINO No. E-19203 6-30-25 ELECTRICAL STATE OF CALIFORNIA

100% CDS

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE:
DATE: 05/15/24
CITY PROJECT NO.:
SHEET NO.: E7.0

atiumengineering
3033 York Lane
Santa Rosa, CA 95402
tel: 913.961.1668
email: mario@atiumeng.com



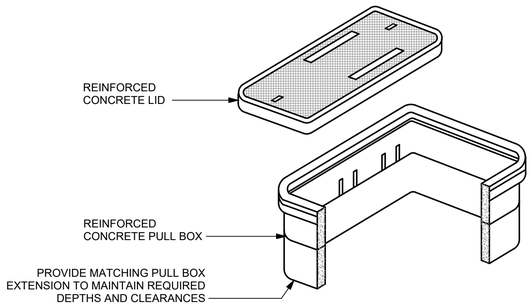
DETAIL NOTES

1. FOR WOOD STUD WALL:
   USE 3/8" LAG BOLT WITH MIN 3" EMBEDMENT INTO STUDS. (ONE AT EACH END OF BRACKET)

   FOR CONCRETE WALL: USE 3/8" DIA HILTI KB-TZ2 WITH MIN 2" EMBEDMENT INTO CONCRETE WALL. INSTALL IN ACCORDANCE WITH ICC-ES REPORT ESR-4266 (ONE AT EACH END OF BRACKET)

5 UNDERGROUND CONDUIT RISER

NOT TO SCALE

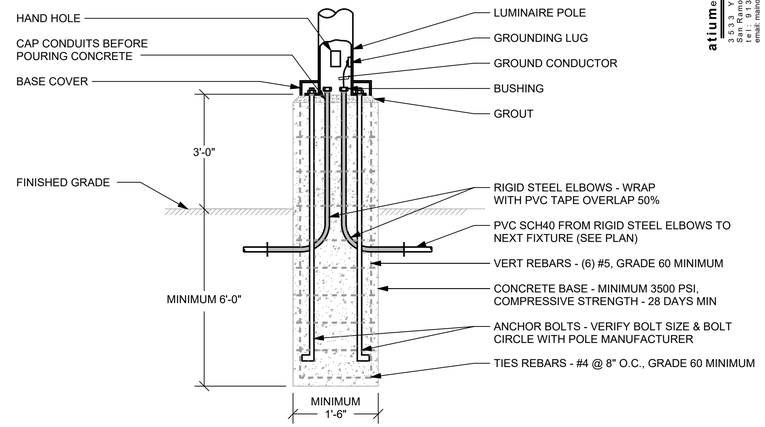


DETAIL NOTES

1. HIGH DENSITY REINFORCED CONCRETE PULL AND JUNCTION BOX WITH END AND SIDE KNOCKOUTS. NON-SETTLING SHOULDERS MAINTAIN GRADE AND FACILITATE BACK FILLING. SIZE PULL BOX PER CODE.
2. PROVIDE MINIMUM OF 6" CRUSHED ROCK BEDDING AT BOTTOM OF BOX FOR DRAINAGE.
3. CHRISTY TYPE "N" SERIES PULL BOX WITH "N" SERIES LID UON OR EQUAL.
4. PROVIDE IN AREAS NOT SUBJECT TO VEHICULAR TRAFFIC (LANDSCAPE), UON.

3 INGRADE PULL BOX

NOT TO SCALE

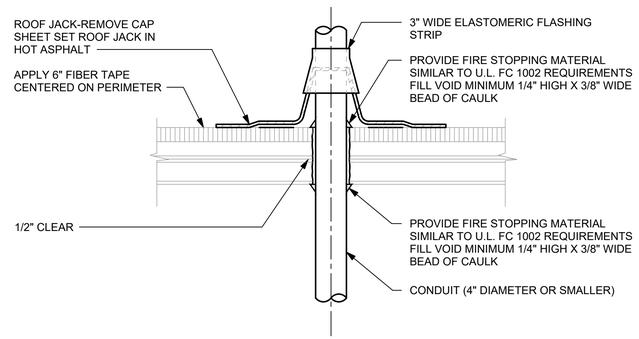


DETAIL NOTES

1. DETAIL BASED ON A 20'-0" (MAX) HIGH POLE WITH A FIXTURE HEAD OF 25LBS OR LESS.

1 RAISED LIGHT POLE BASE

NOT TO SCALE

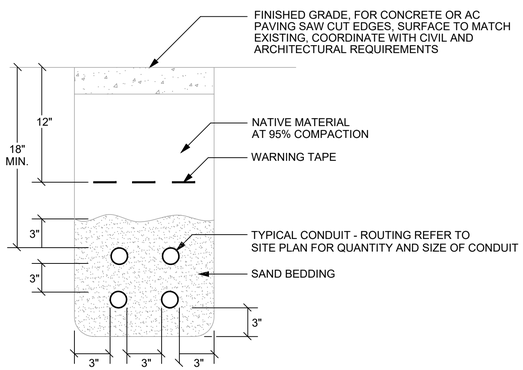


DETAIL NOTES

1. SIMILAR TO U.L. FIRE RESISTANCE DIRECTORY SYSTEM F-C-1002.

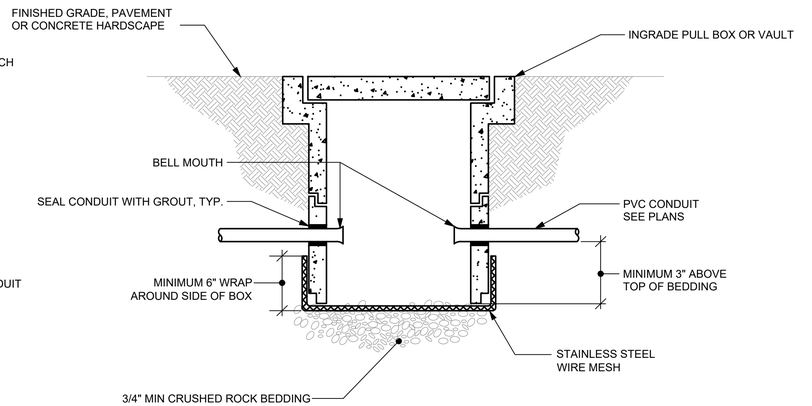
6 CONDUIT THROUGH ROOF

NOT TO SCALE



4 CONDUIT IN TRENCH

NOT TO SCALE



2 INGRADE PULL BOX CONDUIT TERMINATION WITH RODENT-PROOF WIRE MESH

NOT TO SCALE

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DATE

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PICKLEWEED PARK ENHANCEMENTS

DRAWING NAME
ELECTRICAL DETAILS

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REGISTERED PROFESSIONAL ENGINEER
DAVID M. MARINO
No. E19203
EXP. 6-30-25
ELECTRICAL
STATE OF CALIFORNIA

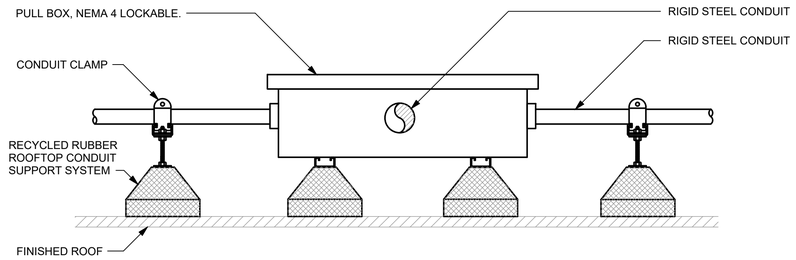
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CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE:
DATE: 05/15/24
CITY PROJECT NO.:
SHEET NO.: E8.0

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3033 York Lane
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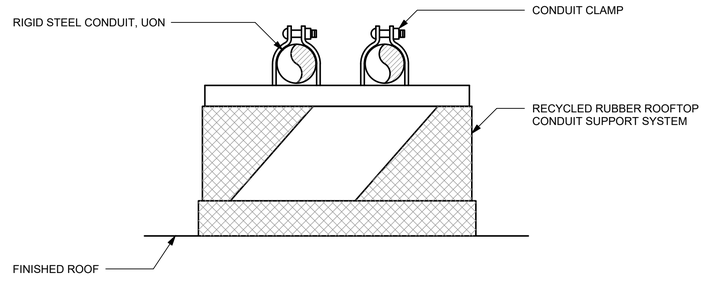


DETAIL NOTES

1. REFER TO SPECIFICATION SECTION 26 05 29 FOR ADDITIONAL INFORMATION.
2. CONTRACTOR TO COORDINATE WITH ROOF MANUFACTURER FOR COMPLETE INSTALLATION.

1 PULL BOX ON BLOCKING ON ROOF

NOT TO SCALE



DETAIL NOTES

1. REFER TO SPECIFICATION SECTION 26 05 29 FOR ADDITIONAL INFORMATION.

2 CONDUIT ON RUBBER SUPPORT ON ROOF

NOT TO SCALE

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PROJECT NAME
PICKLEWEED PARK ENHANCEMENTS
SAN RAFAEL COUNTY OF MARIN CALIFORNIA

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REGISTERED PROFESSIONAL ENGINEER
DAVID MARIO
No. E19203
EXP. 6-30-25
ELECTRICAL
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STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.	
Project Name: 2291.78 - Pickleweed Park	**Report Page:** (Page 1 of 7)
Project Address: 50 Canal St, San Rafael, CA 94901	**Date Prepared:** 2023-12-12T13:47:13-05:00

A. GENERAL INFORMATION

01	Project Location (city)	San Rafael	04	Total Conditioned Floor Area (ft²)	0
02	Climate Zone	2	05	Total Unconditioned Floor Area (ft²)	346
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1
• Support Areas					

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☒ New Lighting System	N/A	0	Area Category Method	346
☐ New Lighting System - Parking Garage	N/A	0	N/A	0
Total Area of Work (ft²)			346	

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: 2291.78 - Pickleweed Park	**Report Page:** (Page 2 of 7)
	Date Prepared: 2023-12-12T13:47:13-05:00

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)						Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)				Compliance Results
	01	02	03	04		05		06	07		08	09
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2O / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)	=	**Total Allowed** (Watts)	≥	Total Designed (Watts)	Adjustments PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)	=	**Total Adjusted** (Watts) *Includes Adjustments	**05 must be >= 08 140.6 / 170.2(e)**
	(See Table I)	(See Table I)	(See Table J)	(See Table K)				(See Table F)	(See Table P)			
Conditioned					=		≥			=		
Unconditioned		138.4			=	138.4	≥	124.8		=	124.8	COMPLIES
Controls Compliance (See Table H for Details)												COMPLIES
Rated Power Reduction Compliance (See Table 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.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: 2291.78 - Pickleweed Park	**Report Page:** (Page 3 of 7)
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F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Unconditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Field Inspector	
									Pass	Fail
S1	LED STRIP	No	NA	31.2	Mfr. Spec	4	No	124.8	☐	☐
Total Designed Watts: UNCONDITIONED SPACES								124.8		

[1]*FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*

[2]*Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). 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.

Building Level Controls

01	02	03	
		Field Inspector	
		Pass	Fail
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C	☐	☐
NA < 4,000W subject to multilevel	See Area/Space Level Controls		

STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
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H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1/ 170.2(e)2A	Field Inspector	
								Pass	Fail
STORAGE	All Other Space Types	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
					13				
					Plan Sheet Showing Daylit Zones:				

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used .

Unconditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
STORAGE	All Other Space Types	0.4	346	138.4	No	No
	TOTALS:		346	138.4	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

Indoor Lighting Mandatory Measures:

110.9 LIGHTING CONTROLS AND COMPONENTS
ALL LIGHTING CONTROL DEVICES AND SYSTEMS, AND ALL LIGHT SOURCES SHALL MEET THE APPLICABLE REQUIREMENTS OF 110.9.

NOTE: THE EXCEPTED SPACES DO NOT COUNT TOWARDS THE 10,000 FT2 THRESHOLD.

130.0 GENERAL LUMINAIRE REQUIREMENTS
ALL LUMINAIRES SHALL BE FACTORY-LABELLED PER 130.0(c).
ENERGY MANAGEMENT CONTROL SYSTEMS (EMCS) SHALL MEET REQUIREMENTS OF 130.0(e).

130.1(a) MANUAL AREA CONTROLS
EACH ROOM OR AREA WITH FLOOR-TO-CEILING WALLS IN THIS BUILDING SHALL HAVE LIGHTING CONTROLS THAT ALLOW LIGHTING TO BE MANUALLY TURNED ON AND OFF MANUAL CONTROLS SHALL:

1. BE READILY ACCESSIBLE

2. BE LOCATED IN THE SAME ENCLOSED AREA WITH THE LIGHTING IT CONTROLS.

3. PROVIDE SEPARATE CONTROL OF GENERAL, FLOOR, WALL, WINDOW CASE DISPLAY, ORNAMENTAL AND SPECIAL EFFECTS LIGHTING SO EACH TYPE CAN BE TURNED ON AND OFF SEPARATELY WITHOUT AFFECTING OTHER LIGHTING OR EQUIPMENT.

130.1(b) MULTILEVEL LIGHTING CONTROLS
GENERAL LIGHTING IN ALL ROOMS AND AREAS 100 FT2 OR GREATER AND WITH MORE THAN 0.5 WATTS PER FT2 OF LIGHTING LOAD SHALL HAVE MULTILEVEL CONTROLS THAT ALLOW LIGHT LEVELS TO BE ADJUSTED UP AND DOWN. CONTROLS SHALL PROVIDE NUMBER OF CONTROL STEPS AND UNIFORM ILLUMINANCE LIGHT LEVELS PER TABLE 130.1-A.

130.1(c): SHUTOFF CONTROLS
ALL INSTALLED INDOOR LIGHTING SHALL BE EQUIPPED WITH CONTROLS TO AUTOMATICALLY REDUCE LIGHTING POWER WHEN SPACE IS TYPICALLY UNOCCUPIED.

130.1(c)1: CONTROL REQUIREMENTS
ALL INSTALLED INDOOR LIGHTING SHALL HAVE ALL OF THE FOLLOWING:
A. CONTROL(S) CAPABLE OF AUTOMATICALLY SHUTTING OFF ALL LIGHTING IN THE SPACE WHEN TYPICALLY UNOCCUPIED (OCCUPANT SENSING CONTROL, AUTOMATIC TIME-SWITCH CONTROL, OR OTHER)
B. SEPARATE CONTROLS FOR LIGHTING ON EACH FLOOR (OTHER THAN STAIRWELLS)
C. SEPARATE CONTROLS FOR A SPACE ENCLOSED BY CEILING HEIGHT PARTITIONS NOT EXCEEDING 5,000 FT2

130.1(c)6 PARTIAL OR FULL-OFF OCCUPANT SENSORS
PROVIDE PARTIAL OR FULL-OFF OCCUPANT SENSORS, IN ADDITION TO SHUTOFF CONTROLS PER 130.1(c)1 AND 130.1(c)2, IN THE FOLLOWING SPACES:

- AISLE WAYS AND OPEN AREAS IN WAREHOUSES
- LIBRARY BOOK STACK AISLES
- CORRIDORS AND STAIRWELLS
- OFFICES GREATER THAN 250 SQ. FT.

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CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: 2291.78 - Pickleweed Park	**Report Page:** (Page 5 of 7)
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K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

Indoor Lighting Mandatory Measures:

130.1(f) CONTROL INTERACTIONS
EACH LIGHTING CONTROL INSTALLED TO MEET 130.1 REQUIREMENTS SHALL INCORPORATE THE FUNCTIONS OF OTHER LIGHTING CONTROLS REQUIRED BY THIS SECTION.

1. FOR GENERAL LIGHTING, MANUAL AREA CONTROL SHALL PERMIT THE LEVEL OF LIGHT PROVIDED WHILE LIGHTING IS ON TO BE SET OR ADJUSTED BY CONTROLS SPECIFIED IN 130.1(b), (c), (d) and (e).

2. MANUAL AREA CONTROL SHALL PERMIT SHUTOFF CONTROL TO TURN THE LIGHTING DOWN OR OFF.

3. MULTILEVEL CONTROL SHALL PERMIT THE AUTOMATIC DAYLIGHTING CONTROL TO ADJUST ELECTRIC LIGHTING IN RESPONSE TO DAYLIGHT.

4. MULTILEVEL CONTROL SHALL PERMIT THE DEMAND RESPONSIVE (DR) CONTROL TO ADJUST LIGHTING DURING A DR EVENT THEN RETURN IT TO THE LEVEL SET BY THE CONTROL AFTER THE EVENT.

5 SHUTOFF CONTROL SHALL PERMIT THE MANUAL AREA CONTROL TO TURN THE LIGHTING ON.

6. AUTOMATIC DAYLIGHTING CONTROL SHALL PERMIT MULTILEVEL LIGHTING CONTROL TO ADJUST THE LIGHTING LEVEL.

7. FOR LIGHTING CONTROLLED BY MULTILEVEL LIGHTING CONTROLS AND OCCUPANT SENSING CONTROLS THAT PROVIDE AUTOMATIC-ON FUNCTION, CONTROLS SHALL PROVIDE A PARTIAL-ON FUNCTION THAT IS CAPABLE OF AUTOMATICALLY ACTIVATING BETWEEN 50-70% OF CONTROLLED LIGHTING POWER.

8. RESERVED

9. FOR SPACE CONDITIONING SYSTEM ZONES SERVING ONLY SPACES THAT ARE REQUIRED TO HAVE OCCUPANT SENSING CONTROLS SHALL BE CONTROLLED BY OCCUPANCY SENSING CONTROLS.

STATE OF CALIFORNIA
Indoor Lighting
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CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
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S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections 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

Form/Title
NRCI-LTI-E - Must be submitted for all buildings

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	STORAGE

STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: 2291.78 - Pickleweed Park	**Report Page:** (Page 7 of 7)
Project Address:	**Date Prepared:** 2023-12-12T13:47:13-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Joseph Maino	Documentation Author Signature:
Company: ATIUM ENGINEERING	Signature Date: 12.12.23
Address: 3533 YORK LN	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: SAN RAMON, CA 94582	Phone: 913.961.1658

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify 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 building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations;
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application;
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Joseph Maino	Responsible Designer Signature:
Company: ATIUM ENGINEERING	Date Signed: 12.12.23
Address: 3533 YORK LN	License: E19203
City/State/Zip: SAN RAMON, CA 94582	Phone: 913.961.1658

19
3533 York Lane
San Ramon, CA 94582
tel: 913.961.1658
email: maino@atiumeng.com

NO.	REVISION	BY	DATE

DESIGNED DM
DRAWN DM
CHECKED TL
APPROVED
DATE

PROJECT NAME: **PICKLEWEED PARK ENHANCEMENTS**
DRAWING NAME: TITLE 24 INTERIOR LTG
COUNTY OF MARIN CALIFORNIA
SAN RAFAEL

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING - URBAN DESIGN
T 916.790.8778 www.gasaa.com

NOT FOR CONSTRUCTION

REGISTERED PROFESSIONAL ENGINEER
DAVID M. MAINO
No. E-19203
EXP. 6-30-25
ELECTRICAL
STATE OF CALIFORNIA

100% CDS

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE:
DATE: 05/15/24
CITY PROJECT NO.:
SHEET NO.: E9.0

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: 2291.78 - Pickleweed Park	Report Page:	(Page 1 of 8)
Project Address: 50 Canal St, San Rafael, CA 94901	Date Prepared:	2023-12-12T13:36:02-05:00

This document is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0(b)2L for outdoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e)6, 180.1(a) and 180.2(b)4Bv for outdoor lighting scopes using the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities.

A. GENERAL INFORMATION

01	Project Location (city)	San Rafael	04	Total Illuminated Hardscape Area (ft²)	16250
02	Climate Zone	2			
03	Outdoor Lighting Zone per Title 24 Part 1 10.114 or as designated by Authority Having Jurisdiction (AHJ):				
☐	LZ-0: Very Low - Undeveloped Parkland	☐ LZ-2: Moderate - Urban Clusters	☐ LZ-4: High – Must be reviewed by CA Energy Commission for Approval		
☐	LZ-1: Low - Rural Areas	☒ LZ-3: Moderately High - Urban Areas			
05	Occupancy Types within Project				
• Office					

B. PROJECT SCOPE

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 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv for alterations.

My Project Consists of:

01	02
☒ New Lighting System	Must Comply with Allowances from 140.7 / 170.2(e)6
☐ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)? ○ Yes ○ No

03	04	05
% of Existing Luminaires Being Altered[1]	Sum Total of Luminaires Being Added or Altered	Calculation Method
☐ < 10% ☐ >= 10% and < 50% ☐ >= 50%		

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

[1] *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.*

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Generated Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220101 | Documentation Software: Energy Code Ace Compliance ID: 164320-1223-0002 Report Generated: 2023-12-12 10:36:06

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: 2291.78 - Pickleweed Park	Report Page:	(Page 2 of 8)
	Date Prepared:	2023-12-12T13:36:02-05:00

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv												Compliance Results		
01		02		03		04		05		06		07		08	09
General Hardscape Allowance 140.7(d)1 / 170.2(e)6 (See Table I)	+	Per Application 140.7(d)2 / 170.2(e)6 (See Table J)	+	Sales Frontage 140.7(d)2 (See Table K)	+	Ornamental 140.7(d)2 / 170.2(e)6 (See Table L)	+	Per Specific Area 140.7(d)2 / 170.2(e)6 (See Table M)	OR	Existing Power Allowance 141.0(b)2L / 180.2(b)4Bv (See Table N)	=	**Total Allowed** (Watts)	≥	**Total Actual** (Watts)	**07 must be >= 08**
1,834.85	+	---	+	---	+	---	+	---	OR	---	=	1,834.85	≥	135	COMPLIES
Shielding Compliance (See Table G for Details)															COMPLIES
Controls Compliance (See Table H for Details)															COMPLIES

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.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Generated Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220101 | Documentation Software: Energy Code Ace Compliance ID: 164320-1223-0002 Report Generated: 2023-12-12 10:36:06

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: 2291.78 - Pickleweed Park	Report Page:	(Page 3 of 8)
	Date Prepared:	2023-12-12T13:36:02-05:00

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01	02		03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description		Watts per luminaire[1,2]	How is Wattage determined	Total Number Luminaires[2]	Luminaire Status[3]	Excluded per 140.7(a) / 170.2(e)6A	Design Watts	Cutoff Req. > 6,200 initial lumen output 130.2(b) / 160.5(c)[4]	Field Inspector	
										Pass	Fail
ZP3	LED POLE	☐ Linear	45	Mfr. Spec	2	New	☐	90	Provided	☐	☐
ZP5	LED POLE	☐ Linear	45	Mfr. Spec	1	New	☐	45	Provided	☐	☐
							Total Design Watts:	135			

* 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)

[1] *FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)*
[2] *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.*
[3] *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.*
[4] *Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b)/ 160.5(c)*

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STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: 2291.78 - Pickleweed Park	Report Page:	(Page 4 of 8)
	Date Prepared:	2023-12-12T13:36:02-05:00

G. SHIELDING REQUIREMENTS (BUG)

This table includes fixtures of >=6,200 initial lumens indicated on Table F as needing to comply with Shielding Requirements. Maximum lumens can be found in Title 24, Part 11, Section 5.106.8.

01	02	03	04	05	06	07	08	09	10	11	12	
Name or Item Tag	Complete Luminaire Description	Backlight Rating[2]			Uplight Rating[2]			Glare Rating (Lumens)[2]			Field Inspector	
		Mounting Height[1]	Max Allowable Backlight Rating[3]	Backlight Rating Per Design	Lighting type	Max Allowable Uplight Rating[3]	Uplight Rating Per Design	Mounting Height[1]	Max Allowable Glare Rating[3]	Glare Rating Per Design	Pass	Fail
ZP3	LED POLE	2 MH from property line	No Limit	B1	Area Lighting	U0	U0	> 2 MH from property line	G3	G2	☐	☐
ZP5	LED POLE	2 MH from property line	No Limit	B3	Area Lighting	U0	U0	> 2 MH from property line	G3	G2	☐	☐

[1] *FOOTNOTES: Mounting Height is labeled MH in this table.*
[2] *Authority Having Jurisdiction may ask for Luminaire cut sheets or other documentation to confirm luminaire type, uplight ratings and glare ratings used for compliance per 130.2(b)/ 160.5(c)*
[3] *BUG ratings with a lower number than the 'Max Allowable' are compliant. Ex. If Max Allowable is Bug Rating B4, then B0, B1, B2 and B3 are all compliant.*

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Generated Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220101 | Documentation Software: Energy Code Ace Compliance ID: 164320-1223-0002 Report Generated: 2023-12-12 10:36:06

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: 2291.78 - Pickleweed Park	Report Page:	(Page 5 of 8)
	Date Prepared:	2023-12-12T13:36:02-05:00

H. OUTDOOR LIGHTING CONTROLS

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.
Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit

Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings

01	02	03	04	05	
Area Description	Shut-Off 130.2(c)1 / 160.5(c)	Auto-Schedule 130.2(c)2 / 160.5(c)	Motion Sensor 130.2(c)3 / 160.5(c)	Field Inspector	
				Pass	Fail
HARDSCAPE: "ZP3"	Astronomical Timer	Provided	NA: Parking Lot each Luminaire < 78 Watts	☐	☐
HARDSCAPE: "ZP5"	Astronomical Timer	Provided	NA: Parking Lot each Luminaire < 78 Watts	☐	☐

[1] *FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.*
[2] *Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source.*
[3] *Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii.*

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STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: 2291.78 - Pickleweed Park	Report Page:	(Page 6 of 8)
	Date Prepared:	2023-12-12T13:36:02-05:00

I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))

This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardscape Allowance is per Table 140.7-A/Table 170.2-R while "Use it or lose it" Allowances are per Table 140.7-B /Table 170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.
Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

01				
	"Use it or lose it" Allowance (select all that apply) (select all that apply)			
☒ General Hardscape Allowance Table I (below)	☐ Per Application Table J	☐ Sales Frontage Table K	☐ Ornamental Table L	☐ Per Specific Area Table M

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Motel

02	03	04	05	06	07	08	09
Area Description	Area Wattage Allowance (AWA)			Linear Wattage Allowance (LWA)			Total General AWA + LWA (Watts)
	Illuminated Area (ft²)	Allowed Density (W/ft²)	Area Allowance (Watts)	Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	
HARDSCAPE	16250	0.021	341.25	6218	0.2	1243.6	1584.85
					Initial Wattage Allowance for Entire Site (Watts):		250
					Instances of Initial Wattage Allowance (LZ 0 only)[1]		
					Total General Hardscape Allowance (Watts):		1834.85

J. LIGHTING ALLOWANCE: PER APPLICATION

This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Generated Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220101 | Documentation Software: Energy Code Ace Compliance ID: 164320-1223-0002 Report Generated: 2023-12-12 10:36:06

Outdoor Lighting Mandatory Measures:

110.9 OUTDOOR LIGHTING CONTROLS AND COMPONENTS
ALL LIGHTING CONTROL DEVICES AND SYSTEMS, AND ALL LIGHT SOURCES SHALL MEET THE APPLICABLE REQUIREMENTS OF 110.9.

130.0 GENERAL LUMINAIRE REQUIREMENTS
ALL LUMINAIRES SHALL BE FACTORY-LABELLED PER 130.0(c).
ENERGY MANAGEMENT CONTROL SYSTEMS (EMCS) SHALL MEET REQUIREMENTS OF 130.0(e).

130.2(b) LUMINAIRE SHIELDING REQUIREMENTS
ALL OUTDOOR LUMINAIRES WITH INITIAL LUMINAIRE LUMENS >=6,200 SHALL COMPLY WITH THE BACKLIGHT, UPLIGHT AND GLARE (BUG) REQUIREMENTS OF TITLE 24, PART 11, SECTION 5.106.8.

130.2(c) CONTROLS FOR OUTDOOR LIGHTING
ALL OUTDOOR LIGHTING SHALL BE INDEPENDENTLY CONTROLLED FROM OTHER ELECTRICAL LOADS AND SHALL HAVE THE FOLLOWING FEATURES:

1. AUTOMATICALLY TURNS OFF OUTDOOR LIGHTING WHEN DAYLIGHT IS AVAILABLE
2. AUTOMATIC SCHEDULING CONTROLS
   A. AUTOMATIC SCHEDULING CONTROLS SHALL BE INSTALLED FOR ALL OUTDOOR LIGHTING.
   B. CAPABLE OF REDUCING LIGHTING POWER AT LEAST 50% AND NO MORE THAN 90% AND SEPARATELY CAPABLE OF TURNING LIGHTING OFF DURING UNOCCUPIED PERIODS
   C. THAT ALLOW SCHEDULING OF AT LEAST TWO NIGHTTIME PERIODS WITH INDEPENDENT LIGHTING LEVELS (MAY INCLUDE OVERRIDE FOR NO MORE THAN 2 HOURS)

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Generated Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220101 | Documentation Software: Energy Code Ace Compliance ID: 164320-1223-0002 Report Generated: 2023-12-12 10:36:06

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: 2291.78 - Pickleweed Park	Report Page:	(Page 7 of 8)
	Date Prepared:	2023-12-12T13:36:02-05:00

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection has 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

Form/Title
NRCI-LTO-E - Must be submitted for all buildings

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection has 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 must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.	HARDSCAPE: "ZP3"; HARDSCAPE: "ZP5"

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Generated Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220101 | Documentation Software: Energy Code Ace Compliance ID: 164320-1223-0002 Report Generated: 2023-12-12 10:36:06

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: 2291.78 - Pickleweed Park	Report Page:	(Page 8 of 8)
Project Address:	Date Prepared:	2023-12-12T13:36:02-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Joseph Maino	Documentation Author Signature:
Company: ATIUM ENGINEERING	Signature Date: 12.12.23
Address: 3533 YORK LN	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: SAN RAMON, CA 94582	Phone: 913.961.1658

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify 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 building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Joseph Maino	Responsible Designer Signature:
Company: ATIUM ENGINEERING	Date Signed: 12.12.23
Address: 3533 YORK LN	License: E19203
City/State/Zip: SAN RAMON, CA 94582	Phone: 913.961.1658

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Generated Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220101 | Documentation Software: Energy Code Ace Compliance ID: 164320-1223-0002 Report Generated: 2023-12-12 10:36:06

CA: 1-800-227-2600
CALL BEFORE YOU DIG
USA
UNDERGROUND SERVICE ALERT
CA: 1-800-227-2600
CALL TWO WORKING DAYS BEFORE YOU DIG

May 10, 2024 – 11:27am – USER Dave Maino
G:\shared drives\01_projects\gates & associates_01\2291.78 – pickleweed park\05_drawings\01_DWGs\2291.78 – E9.0 – TITLE 24.DWG

atium engineering
3533 York Lane
San Ramon, CA 94582
tel: 913.961.1658
email: maino@atiumeng.com

NO.	REVISION	BY	DATE

DESIGNED DM
DRAWN DM
CHECKED TL
APPROVED
DATE

PROJECT NAME: **PICKLEWEED PARK ENHANCEMENTS**
DRAWING NAME: TITLE 24 EXTERIOR LTG
COUNTY OF MARIN
SAN RAFAEL CALIFORNIA

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING · URBAN DESIGN
www.gates-assoc.com
T 650.780.7770 FAX: www.fgassoc.com

NOT FOR CONSTRUCTION

REGISTERED PROFESSIONAL ENGINEER DAVID MAINO 19203 6-30-25 ELECTRICAL STATE OF CALIFORNIA

100% CDS

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE:
DATE: 05/15/24
CITY PROJECT NO.:
SHEET NO.: E9.1

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
This document is used to demonstrate compliance with mandatory requirements in 130.5, for electrical systems in newly constructed nonresidential and hotel/motel occupancies and 160.6 and 160.9 for electrical systems in newly constructed multifamily occupancies. Additions and alterations to electrical service systems in nonresidential and hotel/motel occupancies will also use this document to demonstrate compliance per 141.0(a) or 141.0(b)2P for alterations. For multifamily addition or alterations compliance will be documented per 180.1(a) or 180.2 (b)4Bvii	
Project Name: 2291.78 - Pickleweed Park	**Report Page:** (Page 1 of 4)
Project Address: 50 Canal St, San Rafael, CA 94901	**Date Prepared:** 2023-12-12T13:43:16-05:00

A. GENERAL INFORMATION

01	Project Location (city)	San Rafael	02	Climate Zone	2
			03	Occupancy Types Within Project:	Support Areas

B. PROJECT SCOPE

This table includes electrical systems that are within the scope of the permit application.

01	02	03	04	05	06	07
Electrical Service Designation/ Description	Scope of Work[1]	Rating[2] (kVA)	Utility Provided Metering System Exception to 130.5(a)/ 160.6(a)[3]	System subject to CA Elec Code Article 517 Exception to 130.5(a)and (b)	Demand Response Controls	Provides power to dwelling units/common living areas only in multifamily occupancy
E6.0	Add/Alt to feeders and branch circuits only	---	☐	☐	Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections 120.2/ 160.3, 130.1/ 160.5, and 130.3/ 160.5, and mechanical, indoor lighting, and sign lighting Certificate of Compliance documents will indicate when demand response controls are required.	☐

[1] FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c)/160.6(c), no other requirements from 130.5/160.6 are required.
[2] If common use areas in a multifamily are submetered, rating is for submeter size serving common use areas.
[3] Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
Project Name: 2291.78 - Pickleweed Park	**Report Page:** (Page 2 of 4)
	Date Prepared: 2023-12-12T13:43:16-05:00

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through J. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

01		02		03		04	05	06
Service Electrical Metering 130.5(a)/ 160.6(a) (See Table F)	AND	Separation for Monitoring 130.5(b)/ 160.6(b) (See Table G)	AND	Voltage Drop 130.5(c)/ 160.6(c) (See Table H)	AND	Controlled Receptacles 130.5(d)/ 160.6(d) (See Table I)	Electric Ready 160.9 (See Table J)	**Compliance Results**
	AND		AND	Yes	AND			COMPLIES

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.

H. VOLTAGE DROP

This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with 130.5(c)/ 160.6(c). For alterations, only the altered circuits must demonstrate compliance per 141.0(b)2Pii/ 180.2(b)4Bviic.

01	02			03	04	05	
Electrical Service Designation/Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method			Location of Voltage Drop Calculations[1]	Sheet Number for Voltage Drop Calculations in Construction Documents	Field Inspector	
						Pass	Fail
E6.0	☒	Voltage drop less than 5%	☐	Permitted by CA Elec Code (Exception to 130.5(c))*	In construction documents	E6.0	☐	☐

** NOTES: If "Permitted by CA Elec Code "" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.*

[1] FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Generated Date/Time: | Documentation Software: Energy Code Ace
Report Version: 2022.0.000 | Schema Version: rev 20220101 | Compliance ID: 164320-1223-0004 | Report Generated: 2023-12-12 10:43:18

Electrical Power Distribution Mandatory Measures:

110.12(a) DEMAND RESPONSIVE (DR) CONTROLS
ALL DEMAND RESPONSIVE CONTROLS SHALL:
1. BE EITHER A. CERTIFIED OPENADR 2.0a OR OPENADR 2.0b VIRTUAL END NODE (VEN); OR B. CERTIFIED BY THE MANUFACTURER AS BEING CAPABLE OF RESPONDING TO A DR SIGNAL FROM A CERTIFIED OPENADR 2.0b VEN AUTOMATICALLY IMPLEMENTING THE CONTROL FUNCTIONS REQUESTED BY THE VEN FOR THE EQUIPMENT IT CONTROLS.
2. BE CAPABLE OF COMMUNICATING USING ONE OR MORE OF THE FOLLOWING: WI-FI, ZIGBEE, BACNET, ETHERNET, OR HARD-WIRING.
3. CONTINUE TO PERFORM ALL OTHER CONTROL FUNCTIONS PROVIDED BY THE CONTROL WHEN COMMUNICATIONS ARE DISABLED OR UNAVAILABLE.
4. DR CONTROL THERMOSTATS SHALL COMPLY WITH REFERENCE JOINT APPENDIX 5 (JA5), TECHNICAL SPECIFICATIONS FOR OCCUPANT CONTROLLED SMART THERMOSTATS.

110.12(d) DEMAND RESPONSIVE ELECTRONIC MESSAGE CENTER CONTROL
CONTROLS FOR ELECTRONIC MESSAGE CENTERS GREATER THAN 15KW SHALL BE CAPABLE OF REDUCING THE LIGHTING POWER BY A MINIMUM OF 30% WHEN RECEIVING A DR SIGNAL.

130.5(c) VOLTAGE DROP
THE MAXIMUM COMBINED VOLTAGE DROP ON BOTH INSTALLED FEEDER AND BRANCH CIRCUIT CONDUCTORS TO THE FARTHEST CONNECTED LOAD OR OUTLET SHALL NOT EXCEED 5%.

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
Project Name: 2291.78 - Pickleweed Park	**Report Page:** (Page 3 of 4)
	Date Prepared: 2023-12-12T13:43:16-05:00

K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections 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

Form/Title
NRCI-ELC-E - Must be submitted for all buildings

L. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Generated Date/Time: | Documentation Software: Energy Code Ace
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STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
Project Name: 2291.78 - Pickleweed Park	**Report Page:** (Page 4 of 4)
Project Address:	**Date Prepared:** 2023-12-12T13:43:16-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Joseph Maino	Documentation Author Signature:
Company: ATIUM ENGINEERING	Signature Date: 12.12.23
Address: 3533 YORK LN	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: SAN RAMON, CA 94582	Phone: 913.961.1658

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify 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 building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Joseph Maino	Responsible Designer Signature:
Company: ATIUM ENGINEERING	Date Signed: 12.12.23
Address: 3533 YORK LN	License: E19203
City/State/Zip: SAN RAMON, CA 94582	Phone: 913.961.1658

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Generated Date/Time: | Documentation Software: Energy Code Ace
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atiumengineering
3533 York Lane
San Ramon, CA 94582
tel: 913.961.1658
email: maino@atiumeng.com

NO.	REVISION	BY	DATE

DESIGNED DM
DRAWN DM
CHECKED TL
APPROVED
DATE

PROJECT NAME: **PICKLEWEED PARK ENHANCEMENTS**
SAN RAFAEL CALIFORNIA

DRAWING NAME: TITLE 24 POWER
COUNTY OF MARIN

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING · URBAN DESIGN
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NOT FOR CONSTRUCTION

REGISTERED PROFESSIONAL ENGINEER
DAVID MAINO
No. E19203
EXP. 6-30-24
ELECTRICAL
STATE OF CALIFORNIA

100% CDS

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE:
DATE: 05/15/24
CITY PROJECT NO.:
SHEET NO.: E9.2

May 10, 2024 - 11:27am - USER Dave Maino
G:\shared drives\01_projects\gates & associates_91\2291.78 - pickleweed park\05_drawings\01_DWGs\2291.78 - E9.0 - TITLE 24.DWG