

[illegible]

**CALL USA (UNDERGROUND SERVICE
ALERT) AT LEAST 48HRS IN ADVANCE
OF WORK - 1-(800)-642-2444.**

STRAWBERRY REC CENTER PICKLE BALL COURTS	
SHEET NO.	SHEET TITLE
1	TITLE SHEET
2	GENERAL NOTES
3	EXISTING CONDITIONS AND DEMOLITION PLAN
4	SITE PLAN
5	RETAINING WALL DETAILS
6	PICKLE BALL COURT DETAILS
7	EROSION CONTROL PLAN



PLAN CHECK RESPONSES	A	12/21/22	RGB
Description	Mark	Date	By

Revisions

504 Redwood Blvd.
Suite 220
Novato, CA 94947
T 415 / 382-3444
F 415 / 382-3450
www.millerpac.com



A CALIFORNIA CORPORATION, © 2017, ALL RIGHTS RESERVED
FILE: 1872.012 Plans - REV 12-16.dwg

Designed	Date
MMT	9/22/22
Drawn	Date
MMT	9/22/22
Checked	Date
SAS	9/22/22

TITLE SHEET

Strawberry Rec Center Pickleball Court
118 E. Strawberry Drive, APN: 043-081-23
Mill Valley, California

Project No. 1872.012 Date: 9/22/2022

SHEET

1

GENERAL

1. ALL CONDITIONS AND DIMENSIONS SHOWN ON THE PLANS SHALL BE VERIFIED BY THE CONTRACTOR. ANY DISCREPANCIES THAT REQUIRE CLARIFICATION OR REVISIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE STARTING WORK.
2. THE CONTRACTOR SHALL POSSES A CLASS "A" LICENSE.
3. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, SAFETY, AND SEQUENCE.
4. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT PRIOR TO START OF ANY CONSTRUCTION. CONTRACTOR SHALL NOTIFY ALL PUBLIC OR PRIVATE UTILITY COMPANIES 48 HOURS PRIOR TO COMMENCEMENT OF WORK ADJACENT TO EXISTING UTILITY LINES.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF ALL EXISTING UTILITIES IN THE FIELD.
6. TECHNICAL SPECIFICATION SECTIONS 2100, 2210, 2270, 2286 AND 3360 ARE CONSIDERED PART OF THE CONTRACT DOCUMENTS FOR THE SOIL NAIL RETAINING WALL.
7. THE CONTRACTOR SHALL COORDINATE WITH ENGINEER TO ESTABLISH SOIL NAIL LAYOUT PRIOR TO DRILLING AND NAIL INSTALLATION.
8. THE CONTRACTOR SHALL INSTALL TEMPORARY SUPPORTS FOR THE SHOTCRETE FACING AS REQUIRED TO AVOID DAMAGING THE FACING DURING EXCAVATION AND CONSTRUCTION OF THE SUBSEQUENT BENCHES.
9. GEOTECHNICAL DESIGN INFORMATION

GEOTECHNICAL ENGINEER-OF-RECORD:
MILLER PACIFIC ENGINEERING GROUP
504 REDWOOD BOULEVARD, SUITE 220
NOVATO, CALIFORNIA 94947
415-382-3444

GEOTECHNICAL REPORT:
GEOTECHNICAL INVESTIGATION
STRAWBERRY RECREATION CENTER
PICKLEBALL COURTS
118 E. STRAWBERRY DRIVE
MILL VALLEY, CALIFORNIA
JOB NO. 1872.012

SHOTCRETE

1. REFER TO TECHNICAL SPECIFICATION SECTION 3360 FOR SHOTCRETE REQUIREMENTS.
2. WORK SHALL CONFORM TO ACI 506.2 LATEST EDITION EXCEPT AS MODIFIED BY SECTION 3360.
3. CEMENT SHALL CONFORM TO ASTM C 150, TYPE II.
4. SHOTCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS.
5. SHOTCRETE FINISH SHALL BE AS SPECIFIED BY THE OWNER.

REINFORCING STEEL

1. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GR 60.
2. WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185.
3. PROVIDE 3 IN MINIMUM COVER FOR CONCRETE CAST AGAINST EARTH AND 2 IN MINIMUM COVER FOR CONCRETE EXPOSED TO EARTH OR WEATHER.

REINFORCING STEEL (CONTINUED)

4. LAP SPLICE LENGTHS OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ACI 318 FOR $f'_c = 4,000$ PSI AND YIELD STRENGTH OF STEEL = 60 KSI, AS FOLLOWS:

BAR OR WWF SIZE (NO.)	LAP SPLICE LENGTH (INCHES)
3	19
4	25
5	31
4 X 4 - W4.0 X W4.0	12 IN (3 SQUARES)

HEADED STUDS

1. WELDED HEADED STUDS FOR SOIL NAIL BEARING PLATES SHALL CONFORM TO TYPE B STUDS PER AWS D1.1. WELDING SHALL BE COMPLETED IN ACCORDANCE WITH ALL REQUIREMENTS OUTLINED IN AWS D1.1.

SOIL NAILS

1. REFER TO TECHNICAL SPECIFICATION 2286 FOR SOIL NAIL REQUIREMENTS.
2. SOIL NAILS SHALL BE DYWIDAG STEEL THREAD BARS (OR APPROVED EQUIVALENT) AS DESIGNATED ON THE PLANS AND MANUFACTURED EXPRESSLY FOR USE AS SOIL NAILS OR TIEBACKS.
3. GRADE 75 THREADBAR SHALL CONFORM TO ASTM A615
GRADE 150 THREADBAR SHALL CONFORM TO ASTM 722
4. BEARING PLATES AND HARDWARE SHALL CONFORM TO THE MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE ASTM STANDARDS.
5. CORROSION PROTECTION SHALL BE DOUBLE CORROSION PROTECTION AS RECOMMENDED BY THE MANUFACTURER AND AS SHOWN ON THE PLANS.
6. CEMENT GROUT SHALL BE MADE OF PORTLAND CEMENT CONFORMING TO ASTM C 150 WITH $f_c = 4,000$ PSI AND WATER CEMENT RATIO BETWEEN 0.4 AND 0.5.
7. LOAD TESTING SCHEDULE:
(DL = DESIGN LOAD, CTL = CREEP TEST LOAD)
 - 7.1 FOR PERMANENT SOIL NAIL WALLS, PERFORM VERIFICATION TESTING ON SACRIFICIAL NAILS AS SHOWN ON THE PLANS AND PROOF TESTING ON A MINIMUM OF 5% OF THE PRODUCTION NAILS WITH AT LEAST 1 PROOF TEST PER ROW.
 - 7.2 VERIFICATION LOAD TEST
AL (0.05 DL), 0.25 DL, 0.50 DL, 0.75 DL, 1.00 DL, 1.25 DL, 1.50 DL (CTL), 1.75 DL, 2.00 DL

HOLD LOAD AT EACH INCREMENT FOR A MINIMUM OF 10 MINUTES OR UNTIL DISPLACEMENT CEASES. THE FINAL DISPLACEMENT SHALL BE RECORDED AT EACH LOAD INTERVAL. THE CTL SHALL BE HELD FOR A MINIMUM OF 60 MINUTES WITH DISPLACEMENT MEASUREMENTS TAKEN AT 1, 2, 3, 4, 5, 6, 10, 20, 30, 45, AND 60 MINUTES. THE TOTAL MOVEMENT WITHIN THE PERIOD OF 6 TO 60 MINUTES SHALL NOT EXCEED 0.08 IN.
 - 7.3 PROOF LOAD TEST:
AL (0.05 DL), 0.25 DL, 0.50 DL, 0.75 DL, 1.00 DL, 1.33 DL (CTL)

SOIL NAILS (CONTINUED)

HOLD CTL FOR 10 MINUTES WITH DISPLACEMENT MEASUREMENTS AT 1, 2, 3, 4, 5, 6, AND 10 MINUTES. IF THE TOTAL MOVEMENT BETWEEN 1 AND 10 MINUTES EXCEEDS 0.04 IN, THE TEST LOAD SHALL BE HELD FOR AN ADDITIONAL 50 MINUTES WITH FURTHER DISPLACEMENT READINGS MADE AT 15, 20, 25, 30, 45, AND 60 MINUTES. THE TOTAL MOVEMENT WITHIN THE PERIOD OF 6 TO 60 MINUTES SHALL NOT EXCEED 0.08 IN.

- 7.4 THE SOIL NAIL DISPLACEMENT SHALL BE MEASURED WITH A DIAL GAUGE CAPABLE OF ACCURATELY MEASURING DISPLACEMENT TO THE NEAREST 0.001 IN.

WALL DRAINAGE

1. INSTALL PIPING FOR WALL DRAINAGE IN ACCORDANCE WITH REQUIREMENTS OUTLINED IN THE MOST RECENT VERSION OF THE CALIFORNIA PLUMBING CODE.
2. WEEPHOLES AND OUTFALL PIPE FOR WALL DRAINAGE SHALL CONFORM TO ASTM D3034, SDR 23.5
3. USE SWEEP-TYPE FITTINGS AT ALL CHANGES IN DIRECTION OF OUTFALL PIPE.
4. INSTALL CLEANOUTS AT LEAST ONE CLEANOUT FOR EVERY 100 FEET OF PIPING INSTALLED.
5. SOIL NAIL WALL DESIGN DOES NOT INCLUDE A WATERPROOFING MEMBRANE OR OTHER WATERPROOFING PROVISIONS.

FENCING POSTS

1. GROUT USED TO BACKFILL POST HOLES SHALL BE MADE OF PORTLAND CEMENT CONFORMING TO ASTM C 150 WITH $f'_c = 3,000$ PSI AND WATER CEMENT RATIO BETWEEN 0.4 AND 0.5

SPECIAL INSPECTIONS

1. STRUCTURAL TESTS AND PERIODIC SPECIAL INSPECTIONS, AS REQUIRED BY THE 2019 CALIFORNIA BUILDING CODE (CBC) CHAPTER 17, SHALL BE PERFORMED BY MILLER PACIFIC OR A QUALIFIED TESTING AND INSPECTION AGENCY, INCLUDING THE FOLLOWING.
 - 1.1 SHOTCRETE: INTERMITTENT OBSERVATION DURING PLACEMENT. A 12 IN X 12 IN X 6 IN PANEL SHALL BE PREPARED BY THE CONTRACTOR DURING EACH DAY OF SHOTCRETE PLACEMENT OR FOR EVERY 50 CY OF SHOTCRETE (WHICHEVER RESULTS IN MORE PANELS). CORES SHALL BE COLLECTED FROM THE PANELS AND TESTED FOR COMPRESSIVE STRENGTH IN ACCORDANCE WITH ASTM C1604/C1604M. A MINIMUM OF 1 CORE SHALL BE TESTED AT 7 DAYS AND A MINIMUM OF 3 CORES SHALL BE TESTED AT 28 DAYS.
 - 1.2 SOIL NAILS: INTERMITTENT OBSERVATION OF DRILLING. FINISHED SOIL NAIL EXCAVATIONS SHALL BE OBSERVED PRIOR TO INSTALLING THREADBAR. THREAD BAR SHALL BE OBSERVED PRIOR TO PLACEMENT IN DRILLED HOLE. LOAD TESTING SHALL BE PERFORMED AS SPECIFIED HEREIN.
 - 1.3 GROUT: INTERMITTENT OBSERVATION DURING PLACEMENT. FOR EACH DAY OF GROUTING, GROUT SHALL BE SAMPLED FROM THE TREMIE PIPE (OR OTHER DISCHARGE POINT) AND CYLINDERS SHALL BE CAST FOR STRENGTH TESTING IN CONFORMANCE WITH ASTM C39. A MINIMUM OF 1 CYLINDER SHALL BE TESTED AT 3 DAYS AND A MINIMUM OF 2 CYLINDERS SHALL BE TESTED AT 28 DAYS.
 - 1.4 REINFORCING STEEL: REBAR AND WELDED WIRE MESH SHALL BE OBSERVED PRIOR TO PLACEMENT OF SHOTCRETE.
 - 1.5 DRAINAGE PANELS: DRAINAGE PANELS SHALL BE OBSERVED PRIOR TO PLACEMENT OF SHOTCRETE.

GENERAL NOTES

Strawberry, Rec Center Pickleball Court
118 E. Strawberry
Mill Valley, California
Project No: 1872.012
Date: 10/3/2022



SHEET

2



**MILLER PACIFIC
ENGINEERING GROUP**

504 Redwood Blvd.

Suite 220
Novato, CA 94947

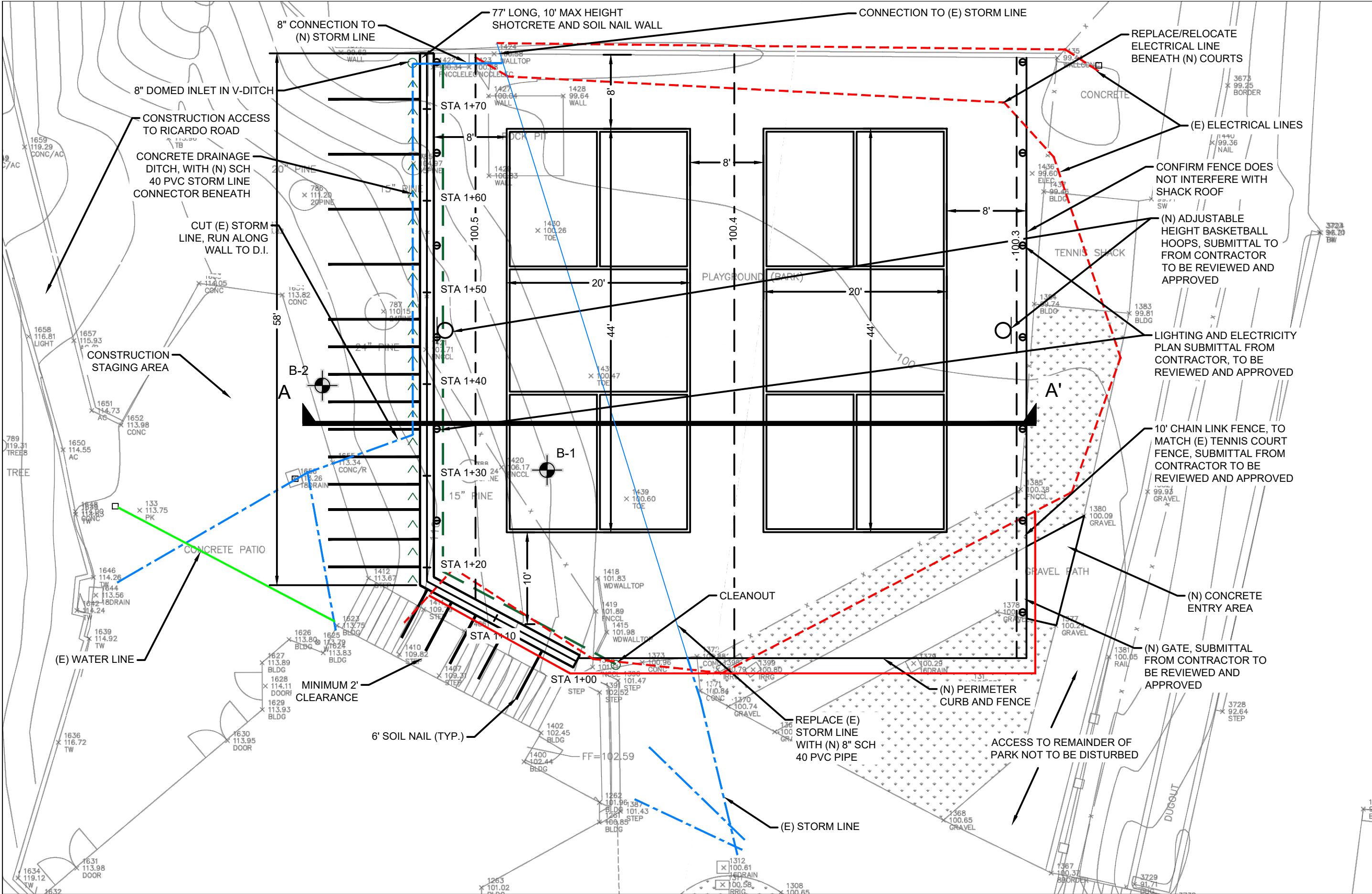
T 415 / 382-3444

F 415 / 382-3450

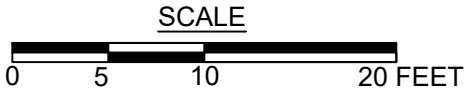
www.millerpac.com

© 2022, ALL RIGHTS RESERVED
1872.012 Plans - REV 12-16.dwg

PLAN CHECK RESPONSES	12/21/22	RGB
Description	Mark	Date
Revisions		



NOTES:
1. CONTRACTOR TO RETAIN ELECTRICIAN FOR LIGHTS INCLUDING WHERE TO TIE IN AND CONTROL BOXES, ETC.
2. CONTRACTOR TO SUBMIT SUBMITTALS FOR FENCING, GATE, AND LIGHTING TO BE REVIEWED BY THE OWNER AND ENGINEER.



PLAN CHECK RESPONSES		Revisions	
RGB	12/21/22	Description	By

504 Redwood Blvd.
Suite 220
Novato, CA 94947
T 415 / 382-3444
F 415 / 382-3450
www.millerpac.com



MILLER PACIFIC
ENGINEERING GROUP

A CALIFORNIA CORPORATION, © 2022, ALL RIGHTS RESERVED
FILE: 1872.012 Plans - REV 12-16.dwg

Date	Date	Date	Date
Designed	9/22/22	Drawn	9/22/22
MMT	MMT	SAS	SAS
Checked	9/22/22	10/3/2022	9/22/22

SITE PLAN
Strawberry Rec Center Pickleball Court
118 E. Strawberry Drive
Mill Valley, California
Project No. 1872.012
Date: 10/3/2022

