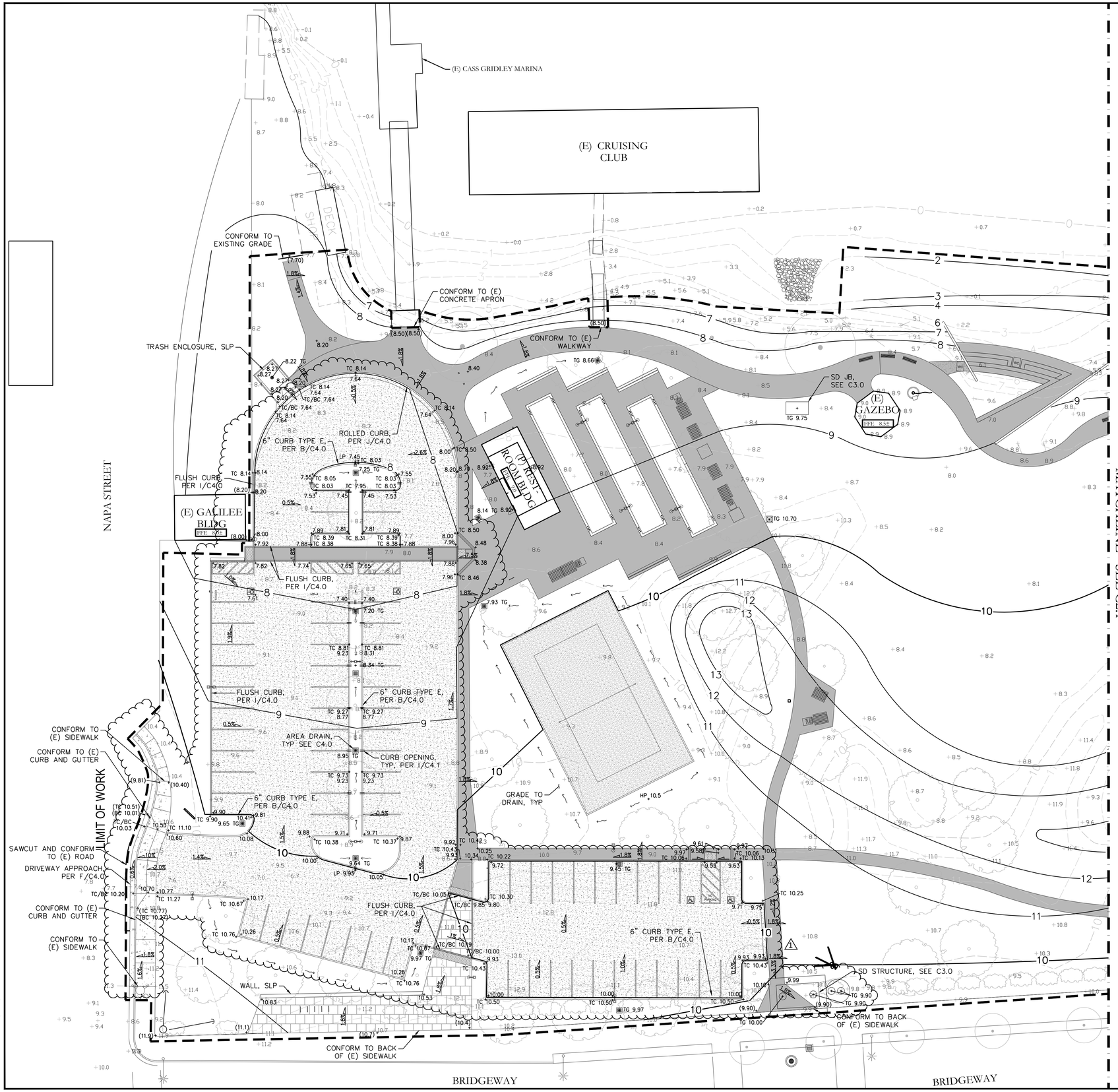


LEGEND

- GRADE BREAK
- MINOR CONTOUR
- MAJOR CONTOUR
- LIMITS OF WORK
- SAWCUT
- SLOPE — X%
- FINISH FLOOR ELEVATION — FFE XXX.X
- FLOW DIRECTION
- CURB OPENING PER I/C4.1
- FLUSH CURB PER I/C4.0

GENERAL NOTES

1. FOR GRADING ALONG PATHWAYS, BOCCE COURTS, AND VOLLEYBALL COURT, SLP.
2. FOR GRADING AND IMPROVEMENTS ALONG SHORELINE, SLP.
3. FINISHED GRADE IN PARKING ISLANDS SHALL BE MINIMUM 3 INCHES BELOW ADJACENT TOP OF CURB ELEVATION AND SLOPED TO DRAIN TOWARDS AREA DRAINS. COORDINATE GRADING IN LANDSCAPED AREAS WITH LANDSCAPE ARCHITECT.

EARTHWORK ANALYSIS

	CUT ANALYSIS (CUBIC YARDS)	FILL ANALYSIS (CUBIC YARDS)
PROJECT TOTALS	3,993	3,634
PROJECT NET	360 ± CU YDS (EXPORT)•	

•SITE GRADING TO BE ADJUSTED ON-SITE SO THAT NO IMPORT OR EXPORT IS REQUIRED

NOTE
SHERWOOD DESIGN ENGINEERS IS NOT AN ENGINEERING CONTRACTOR, NOR SHOULD OUR RENDERING OF CUT AND FILL EARTHWORK VOLUMES BE CONSIDERED EQUIVALENT TO THE NATURE AND EXTENT OF SERVICE AN ENGINEERING CONTRACTOR WOULD PROVIDE. THIS ESTIMATE IS BASED SOLELY ON OUR OWN ANALYSIS, WHICH IS AS ACCURATE AS THE INFORMATION PROVIDED TO US IN REGARDS TO EXISTING TOPOGRAPHY AND CONCEPTUAL GRADING. THIS ANALYSIS WILL NOT REFLECT THE LOCALIZED SITE CONDITIONS NOT REPRESENTED ON THE TOPOGRAPHIC SURVEY, NOR DOES IT TAKE INTO EFFECT FACTORS SUCH AS SHRINKAGE, SWELL, LOSS DURING TRANSPORT AND SUBSIDENCE, UNLESS OTHERWISE STATED ON QUANTITIES TABLE ABOVE. THIS EARTHWORK VOLUME ANALYSIS SHOULD NOT BE USED FOR BID PURPOSES. DUE TO THESE FACTORS, SHERWOOD DESIGN ENGINEERS CANNOT GUARANTEE THE ACCURACY OF OUR EARTHWORK VOLUME ESTIMATE BEYOND USE AS A PLANNING TOOL.

rhaa
LANDSCAPE ARCHITECTURE + PLANNING
225 Miller Avenue, Mill Valley, CA 94941
T 415 383 7900 F 415 383 1433 www.rhaa.com

PROJECT/CLIENT NAME

Dunphy Park Improvement Project

200 Napa Street
Sausalito, CA 94965

Owner:
City of Sausalito
420 Litho St.
Sausalito, CA 94965

RHAA PROJECT NUMBER

16042A

CONSULTANT

SUBMITTAL

Permit Submittal

DATE

21 August 2017

REVISIONS

No.	Date	Description
1	9-18-2017	Permit Plan Check Response

REGISTRATION AND SIGNATURE

REGISTERED PROFESSIONAL ENGINEER — JEFFREY ANDREW WOLF — EXP. 12/31/17 — CIVIL — STATE OF CALIFORNIA

0 10' 20' 40'
1" = 20'
N

SHEET TITLE

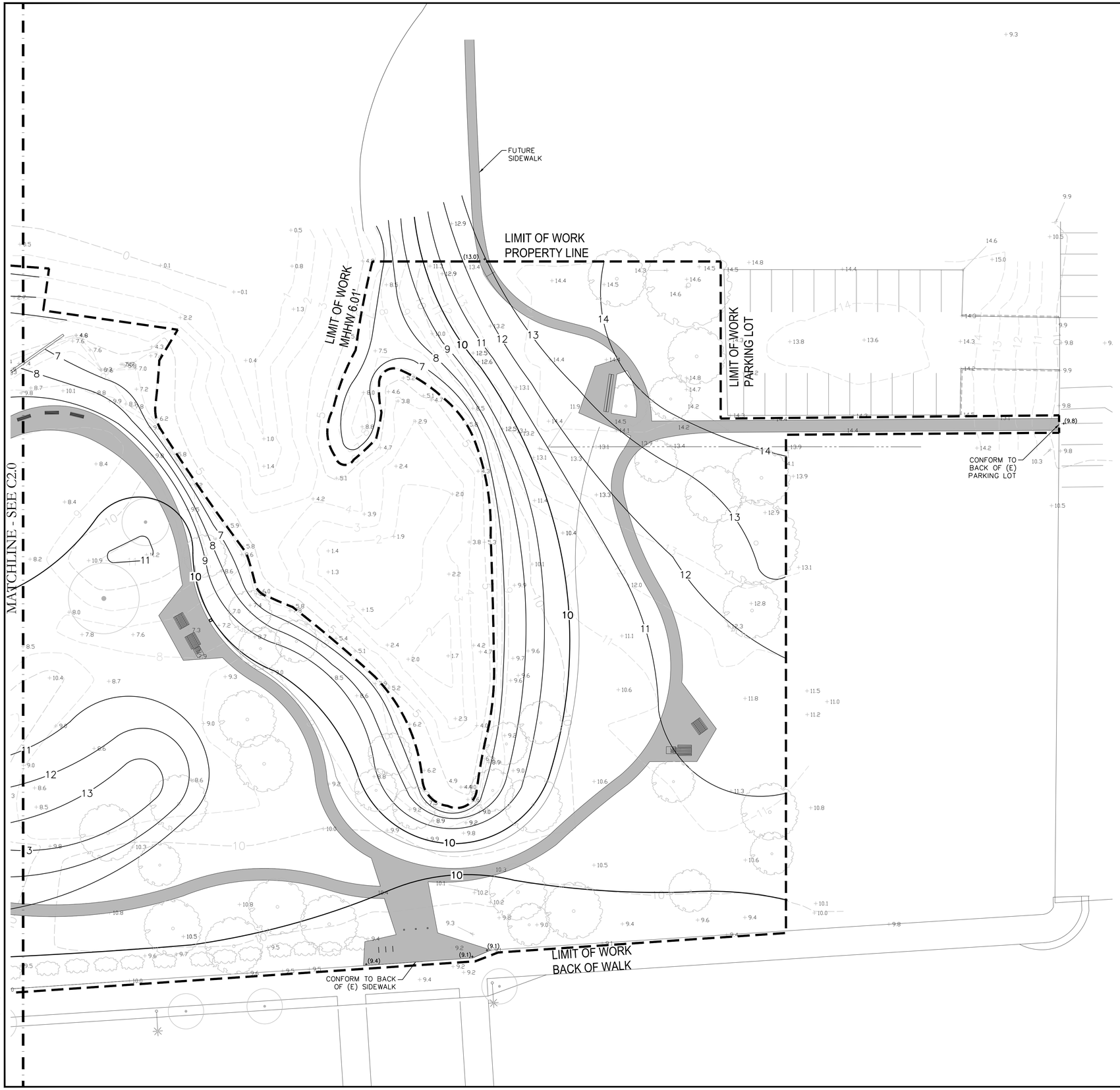
GRADING PLAN

DRAWN BY: JG CHECKED BY: MW

C2.0

P:\2017\17-029_Dunphy\04_Design\01_CD\C2.0 - GRADING PLAN.dwg(2)(Tom Stimpson)(7/15/2017 11:44:40 PM),ARCH E1 expand D (36.00 x 24.00 Inches)),1:1

Date Plotted: 9/15/2017 1:14 PM



LEGEND

- GRADE BREAK
- MINOR CONTOUR
- MAJOR CONTOUR
- LIMITS OF WORK
- SAWCUT
- SLOPE — X%
- FINISH FLOOR ELEVATION — FFE XXX.X
- FLOW DIRECTION
- CURB OPENING PER I/C4.1
- FLUSH CURB PER I/C4.0

GENERAL NOTES

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2. FOR GRADING AND IMPROVEMENTS ALONG SHORELINE, SLP.

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City of Sausalito
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0 10' 20' 40'
1" = 20'

SHEET TITLE

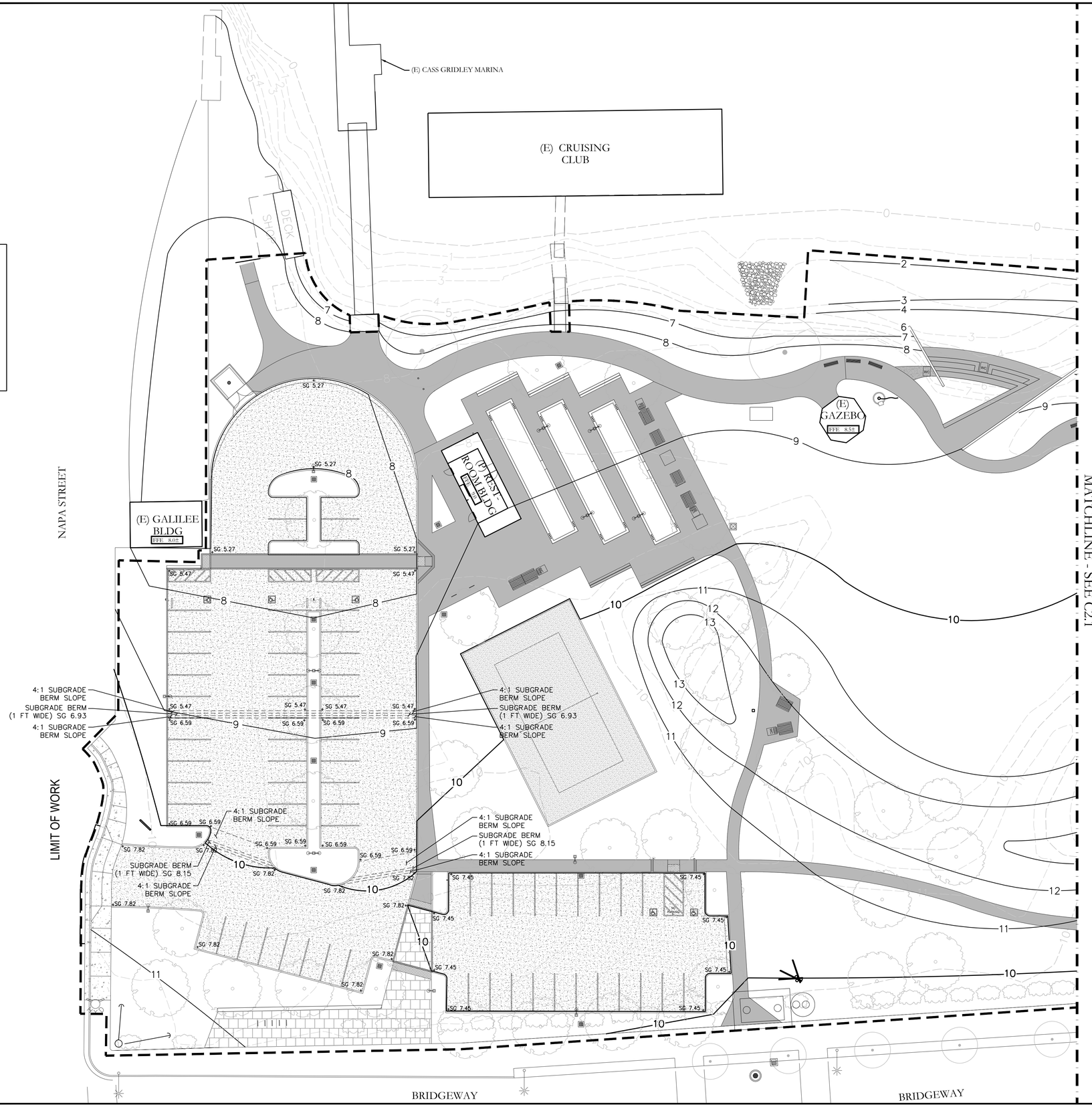
DRAINAGE PLAN

DRAWN BY: JG CHECKED BY: MW

C2.1

P:\2017\17-025_Dunphy\04_Design\01_CD\C2.0 - GRADING PLAN.dwg,C2.1,Tina Simpson,9/15/2017 1:14:44 PM,ARCH expand D (36.00 x 24.00 Inches),1:1

Date Plotted: 9/15/2017 1:14 PM



LEGEND

- GRADE BREAK
- MINOR CONTOUR
- MAJOR CONTOUR
- LIMITS OF WORK
- SAWCUT
- SLOPE X%
- FINISH FLOOR ELEVATION FFE XXX.X
- FLOW DIRECTION
- CURB OPENING PER I/C4.1
- FLUSH CURB PER I/C4.0

GENERAL NOTES

1. SUBGRADE ELEVATIONS SHOWN FOR POROUS ASPHALT SECTION ONLY, SLP FOR SUBGRADE UNDER OTHER SURFACES.
2. SUBGRADE COMPACTION PER SOILS REPORT.
3. ALL SUBGRADE PADS TO BE FLAT.
4. SUBGRADE PADS SHALL STEP UP OR DOWN IN ELEVATION WITH A SEPARATION OF A BERM (1 FT TOP WIDTH, 4 IN. HEIGHT, WITH 4:1 SIDE SLOPES ON BOTH SIDES).

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REGISTRATION AND SIGNATURE

REGISTERED PROFESSIONAL ENGINEER
ROBERT ANDERSON
EXP. 12/31/17
CIVIL
STATE OF CALIFORNIA

0 10' 20' 40'
1" = 20'
N

SHEET TITLE

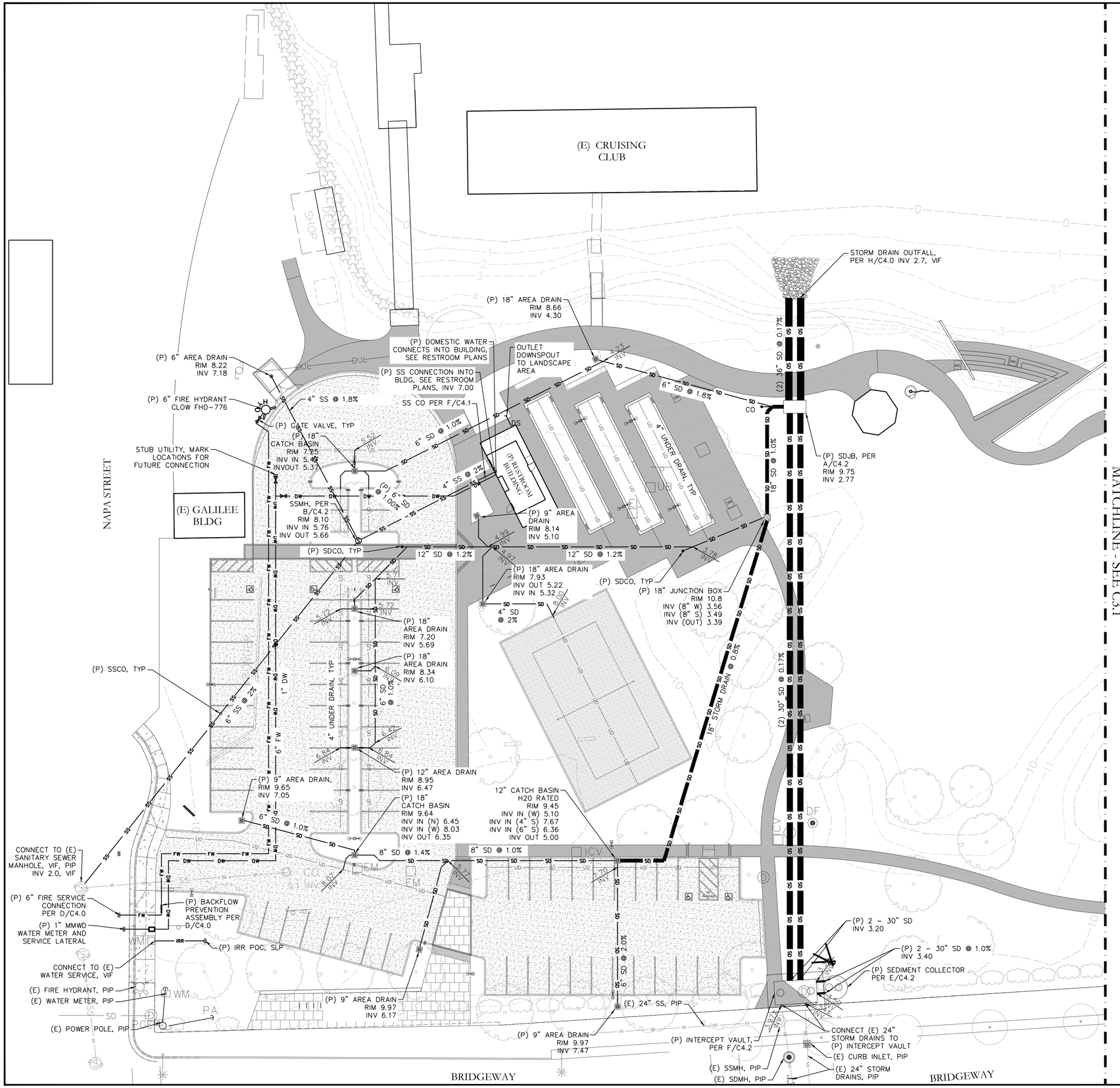
SUBGRADE PLAN

DRAWN BY: JG CHECKED BY: MW

C2.2 1

P:\2017\17-025_Dunphy\04_Design\01_CD\C2.0 - GRADING PLAN.dwg(C2.2,Tina Stimpson,9/15/2017 1:14:50 PM,ARCH expand D (36.00 x 24.00 Inches),1:1

Date Plotted: 9/15/2017 1:14 PM



LEGEND

DOMESTIC WATER LINE	DW DW
GAS LINE	GAS GAS
STORM DRAIN LINE	SD SD
IRRIGATION	IRR IRR
STORM DRAIN LINE	FW FW
DOWNSPOUT, SEE BLDG PLANS	DS
CLEANOUT, PER A/C4.1 OR F/C4.1	CO
AREA DRAIN PER B/C4.1	
CATCH BASIN PER C/C4.1	
STORM DRAIN MANHOLE	
JUNCTION BOX PER A/C4.2	
FIRE HYDRANT PER D/C4.0	
SS MANHOLE PER B/C4.2	
FLUSH CURB PER I/C4.0	

GENERAL NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINAL CONNECTIONS BETWEEN RESTROOM BUILDING AND SITE UTILITIES.
2. LOCATION AT (E) WATER, GAS, AND SEWER LINES IN NAPA STREET AND BRIDGEWAY AND IN THE PROJECT LIMITS ARE APPROXIMATE. CONTRACTOR TO VERIFY LOCATION IN THE FIELD PRIOR TO CONSTRUCTION WITHIN.
3. FOR UNDERDRAIN DETAIL AT BOCCE COURTS AND SURROUNDING AREAS, SLP.
4. UNLABELED STORM DRAIN LINES SERVING UNDER DRAINS OR A SINGLE AREA DRAIN SHALL BE 4" DIAMETER, INSTALLED AT MINIMUM 2% SLOPE, UNLESS OTHERWISE NOTED.
5. FOR (E) UTILITY DEMOLITION, SEE DEMOLITION PLAN ON LANDSCAPE PLANS.
6. INSTALL CDF AROUND UTILITIES WHERE COVER IS LESS THAN 18". CDF SLURRY TO MEASURE 18" WIDE WITH MIN. 6" ABOVE AND BELOW PIPE.
7. CONTRACTOR TO VERIFY ALL EXISTING UTILITY INVERTS AND TIE-IN LOCATIONS IN THE FIELD PRIOR TO CONSTRUCTION. IF ELEVATIONS DIFFER THAN THOSE SHOWN ON THE PLAN, CONTACT THE ENGINEER.
8. AFTER UTILITY LOCATION AND ELEVATIONS HAVE BEEN CONFIRMED, CONTRACTOR TO PREPARE SKETCH OF INTERCEPT VAULT AND SEDIMENT COLLECTOR AND SUBMIT TO ENGINEER FOR REVIEW.
9. THRUST BLOCKS SHALL BE PLACED AT ALL PRESSURE PIPE BENDS, JUNCTIONS, VALVES, AND FITTINGS PER DETAIL G/C4.0.

Underground Service Alert

CALL BEFORE YOU DIG

Call: TOLL FREE

1-800-227-2600

TWO WORKING DAYS BEFORE YOU DIG

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PROJECT/CLIENT NAME

Dunphy Park Improvement Project

200 Napa Street
Sausalito, CA 94965

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REGISTRATION AND SIGNATURE

REGISTERED PROFESSIONAL ENGINEER MATTHEW J. WEYS EXP. 12/31/17 CIVIL STATE OF CALIFORNIA

0 10' 20' 40'
1" = 20'
N

SHEET TITLE

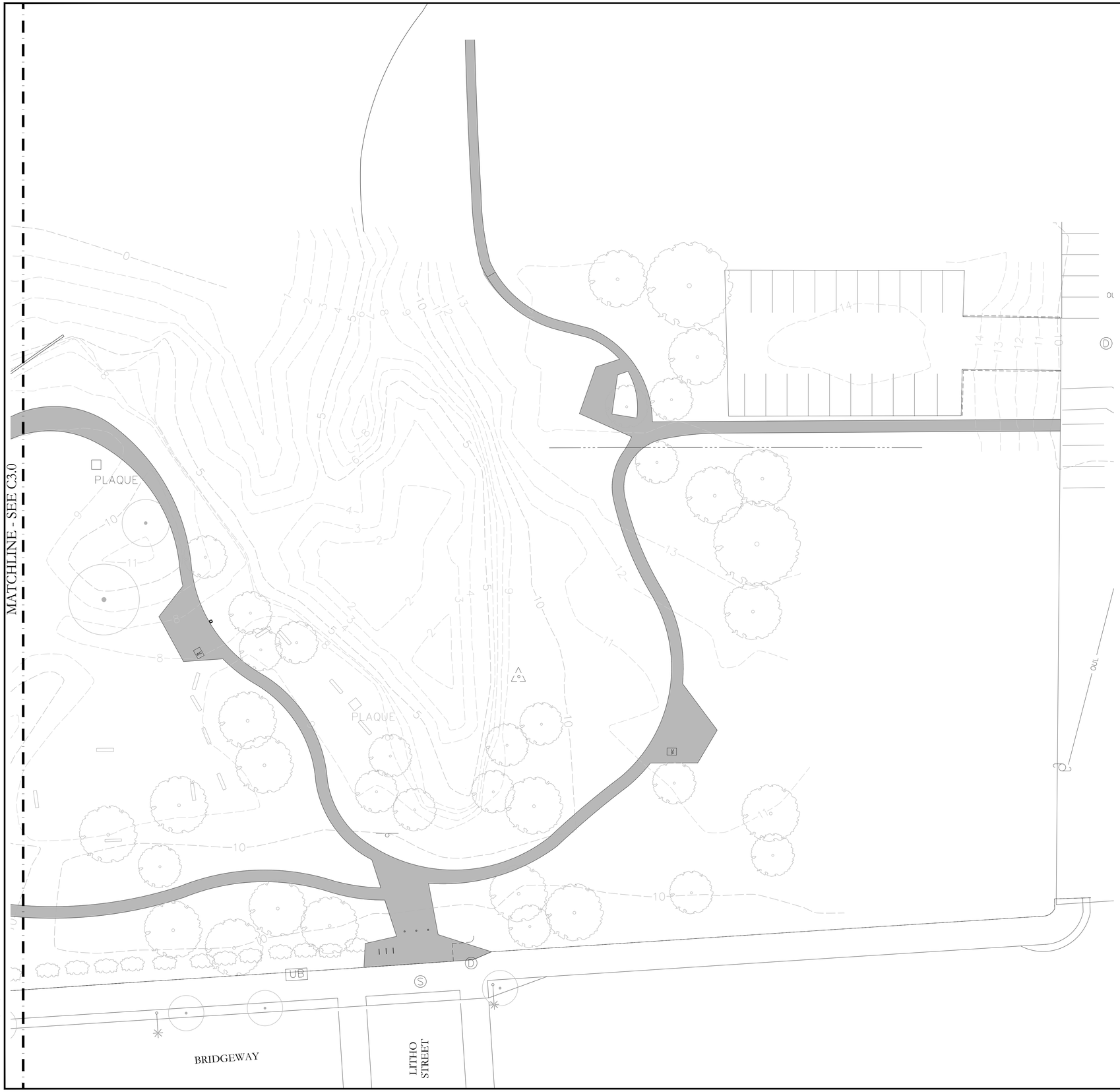
DRAINAGE AND UTILITY PLAN

DRAWN BY: JG CHECKED BY: MW

C3.0 1

P:\2017\17-029_Dunphy\04_Design\01_CD\C3.0 - DRAINAGE PLAN.dwg,C3.0,Megan Weys,9/15/2017 1:56:51 PM,ARCH expand D (36.00 x 24.00 Inches),1:1

Date Plotted: 9/15/2017 1:56 PM



LEGEND

DOMESTIC WATER LINE	DW DW
GAS LINE	GAS GAS
STORM DRAIN LINE	SD SD
IRRIGATION	IRR IRR
STORM DRAIN LINE	FW FW
DOWNSPOUT, SEE BLDG PLANS	DS
CLEANOUT, PER A/C4.1 OR F/C4.1	CO
AREA DRAIN PER B/C4.1	
CATCH BASIN PER C/C4.1	
STORM DRAIN MANHOLE	
JUNCTION BOX PER A/C4.2	
FIRE HYDRANT PER D/C4.0	
SS MANHOLE PER B/C4.2	
FLUSH CURB PER I/C4.0	

GENERAL NOTES

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PROJECT/CLIENT NAME

Dunphy Park
Improvement Project

200 Napa Street
Sausalito, CA 94965

Owner:
City of Sausalito
420 Litho St.
Sausalito, CA 94965

RHAA PROJECT NUMBER

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N

0 10' 20' 40'

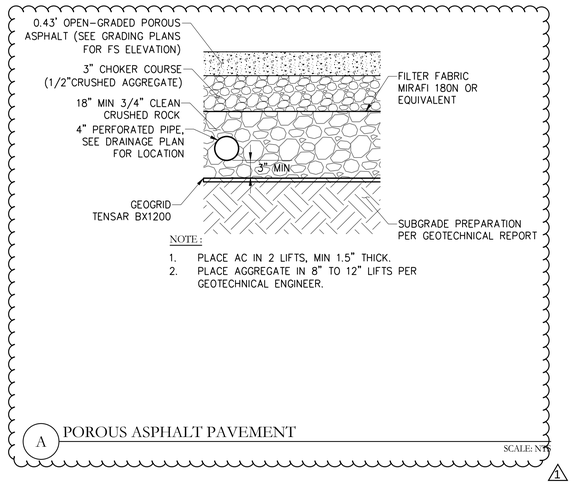
1" = 20'

SHEET TITLE

DRAINAGE AND
UTILITY PLAN

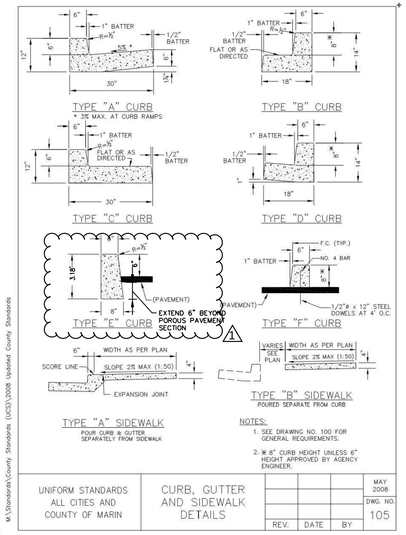
DRAWN BY: JG CHECKED BY: MW

C3.1



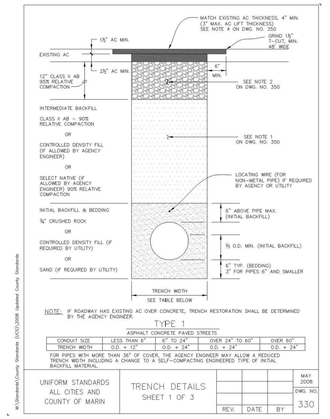
A POROUS ASPHALT PAVEMENT

SCALE: NTS



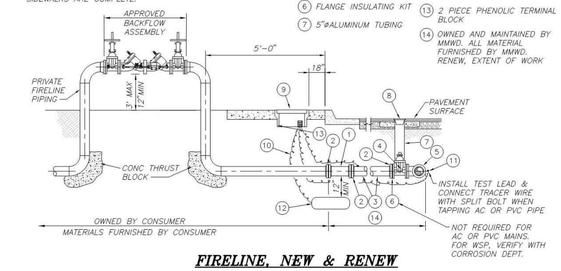
B CURB & GUTTER

SCALE: NTS



C TRENCH DETAILS

SCALE: NTS



D FIRE SERVICE CONNECTION

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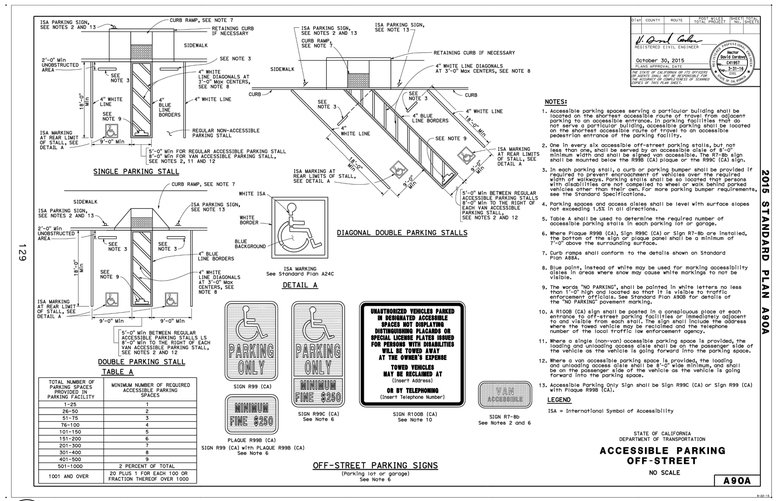

E ADA DETAILS

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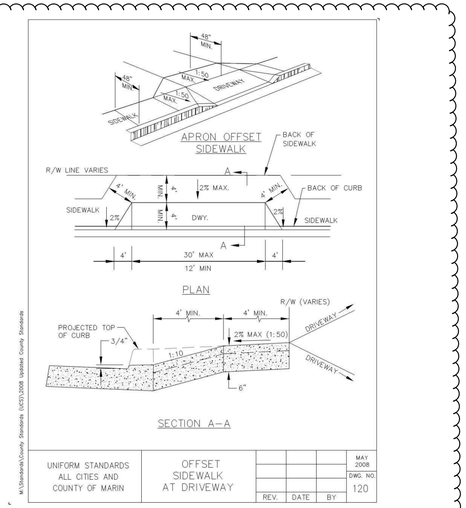
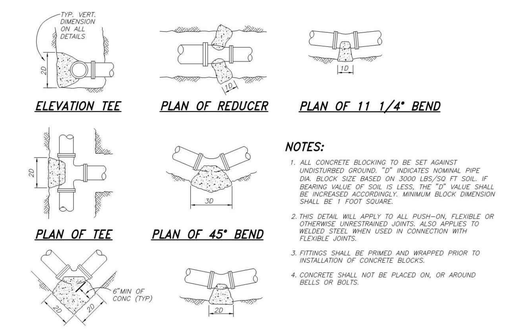


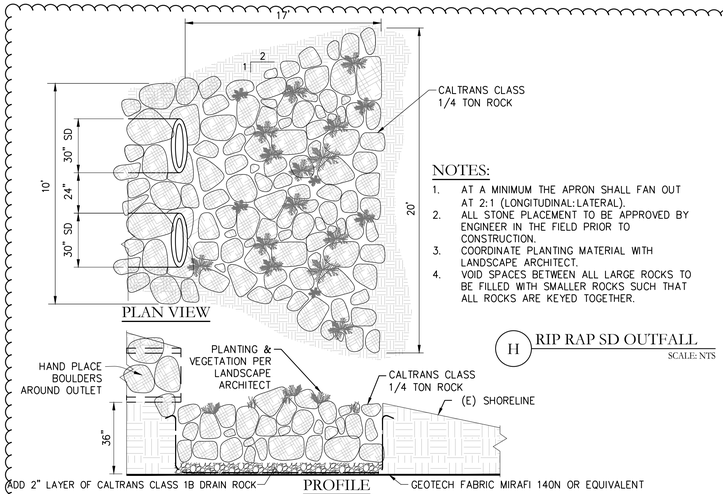
F DRIVEWAY APPROACH

SCALE: NTS



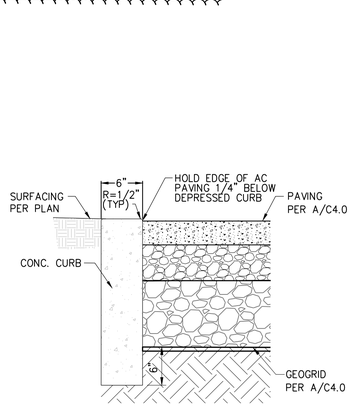
G THRUST BLOCK

SCALE: NTS



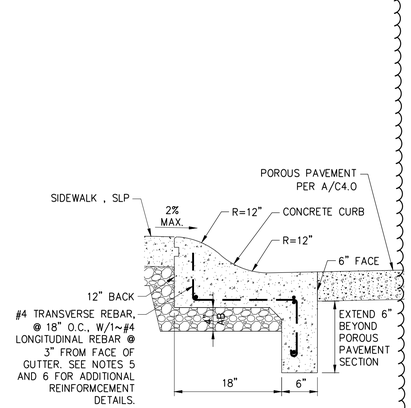
H RIP RAP SD OUTFALL

SCALE: NTS



I FLUSH CURB

SCALE: NTS



J ROLLED CURB & GUTTER

SCALE: NTS

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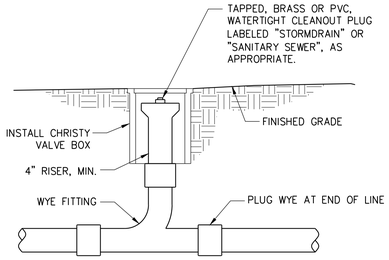
DETAILS

DRAWN BY: JG CHECKED BY: MW

C4.0

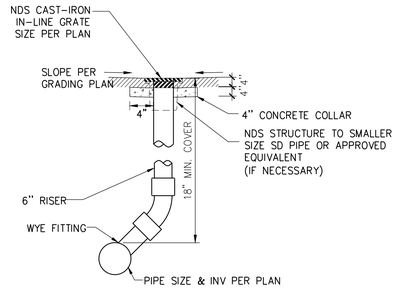
P:\2017\17-029_Dunphy\04_Design\01_CD\C4.0 - DETAILS.dwg,C4.0,Megan Wery,9/15/2017 1:57:02 PM,ARCH expand D (36.00 x 24.00 Inches),1:1

Date Plotted: 9/15/2017 1:57 PM



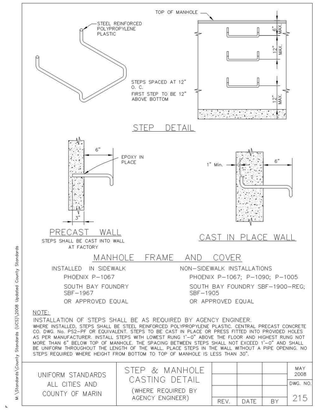
A STORM DRAIN CLEANOUT

SCALE: NTS



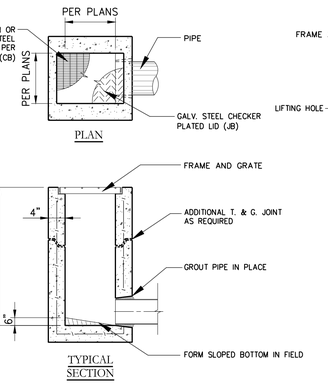
B HARDSCAPE AND SOFTSCAPE AREA DRAIN

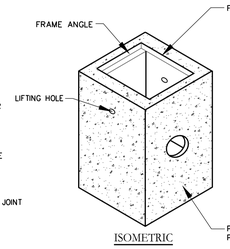
SCALE: NTS



D STORM DRAIN STEP & MANHOLE CASTING DETAIL

SCALE: NTS





DROP INLET TABLE

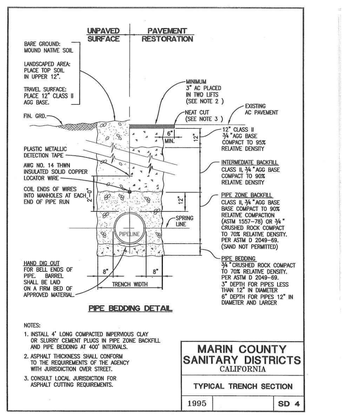
MODEL No.	CPC MODEL NAME	A		B		C	
		IN	MM	IN	MM	IN	MM
CB1212	EK	12	300	12	300	4	100
CB1818	CK	18	450	18	450	5	125
CB1824	1K*	18	450	24	600	5	125
CB2424	2K	24	600	24	600	5	125
CB2430	3K	24	600	30	750	5	125
CB3030	5K	30	750	30	750	6	150
CB2436	1L	24	600	36	900	6	150
CB3636	1M	36	900	36	900	6	150
CB2448	3L	24	600	48	1200	6	150
CB3648	3M	36	900	48	1200	6	150
CB4848	1R	48	1200	48	1200	6	150

NOTES:

1. FRAME AND GRATES MAY BE SPECIFIED FOR PEDESTRIAN OR H20 TRAFFIC LOADING. ALL GRATES ARE BICYCLE PROOF. OPTION GRATE LOCKING DEVICE AVAILABLE ON REQUEST.
2. INSTALL GRATE FLUSH WITH PROPOSED SURFACE PER DETAILS.
3. DRAIN INLET TO BE OLD CASTLE PRECAST PRODUCTS, OR APPROVED EQUIVALENT.

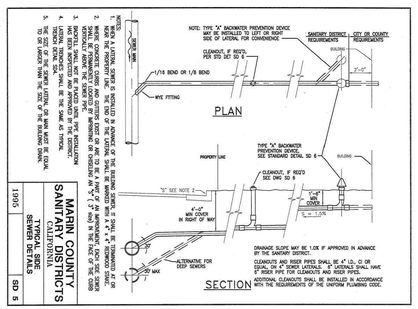
C CATCH BASIN

SCALE: NTS



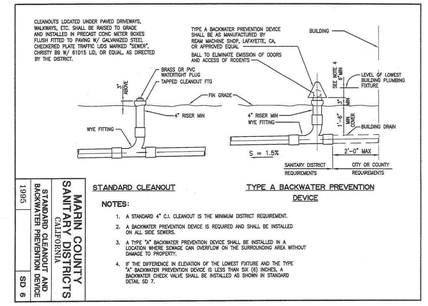
G TYPICAL SANITARY SEWER TRENCH SECTION

SCALE: NTS



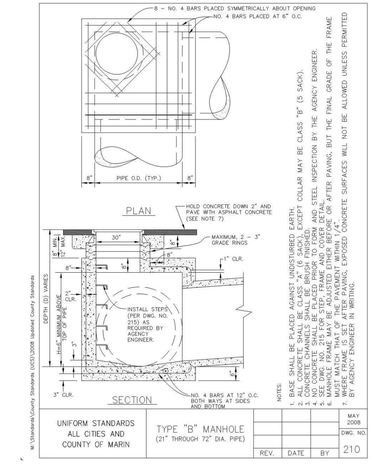
H TYPICAL SIDE SEWER DETAIL

SCALE: NTS



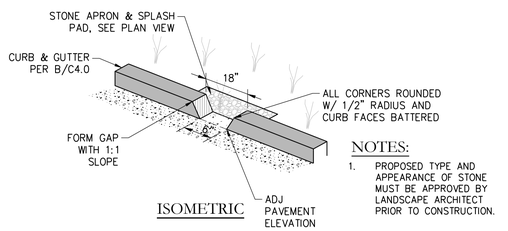
E SANITARY SEWER CLEANOUT

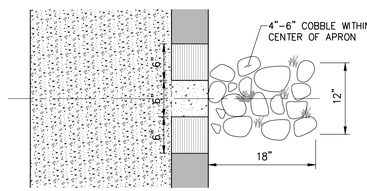
SCALE: NTS



F STORM DRAIN MANHOLE TYPE B

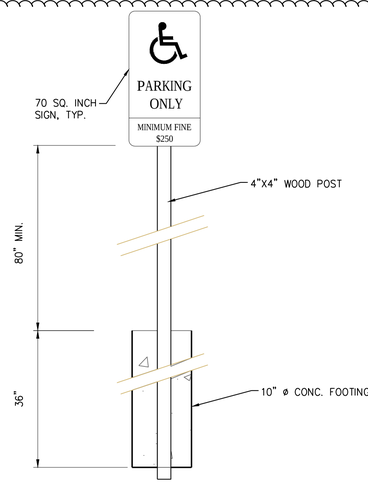
SCALE: NTS





I CURB OPENING

SCALE: NTS



J ADA PARKING SIGN

SCALE: NTS

1

rhaa
LANDSCAPE ARCHITECTURE + PLANNING
225 Miller Avenue, Mill Valley, CA 94941
T 415 383 7900 F 415 383 1433 www.rhaa.com

PROJECT/CLIENT NAME

Dunphy Park Improvement Project

200 Napa Street
Sausalito, CA 94965

Owner:
City of Sausalito
420 Litho St.
Sausalito, CA 94965

RHAA PROJECT NUMBER

16042A

CONSULTANT

SUBMITTAL

Permit Submittal

DATE

21 August 2017

REVISIONS

No.	Date	Description
1	9-18-2017	Permit Plan Check Response

REGISTRATION AND SIGNATURE

SHEET TITLE

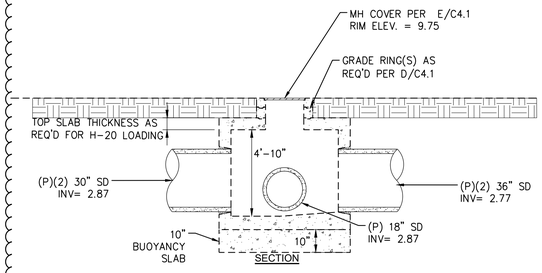
DETAILS

DRAWN BY: JG CHECKED BY: MW

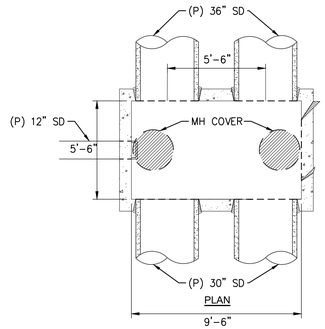
C4.1

P:\2017\17-025_Dunphy\04_Design\01_CD\C4.01 DETAILS.dwg,C4.1,Angus Wertz,9/15/2017 1:57:09 PM,ARCH expand D (36.00 x 24.00 Inches),1:1

Date Plotted: 9/15/2017 1:57 PM

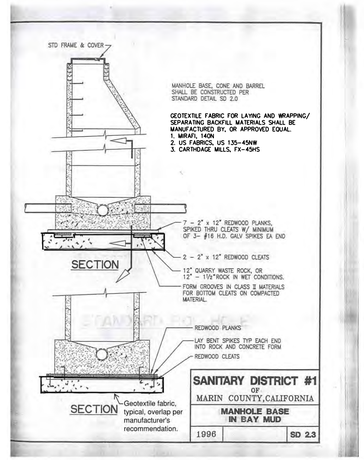


NOTES:
1. BOX JENSEN PRECAST OR EQUIVALENT.
2. PROVIDE ACCESS STEPS (NOT SHOWN) PER D/C4.1



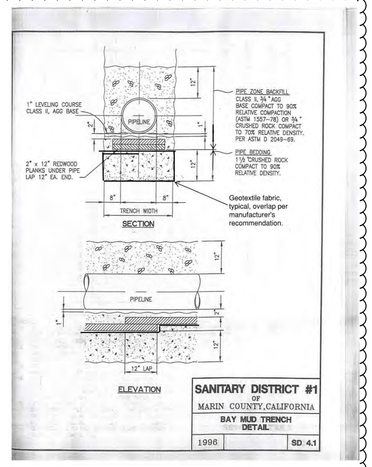
A JUNCTION BOX

SCALE: NTS



B SEWER MANHOLE

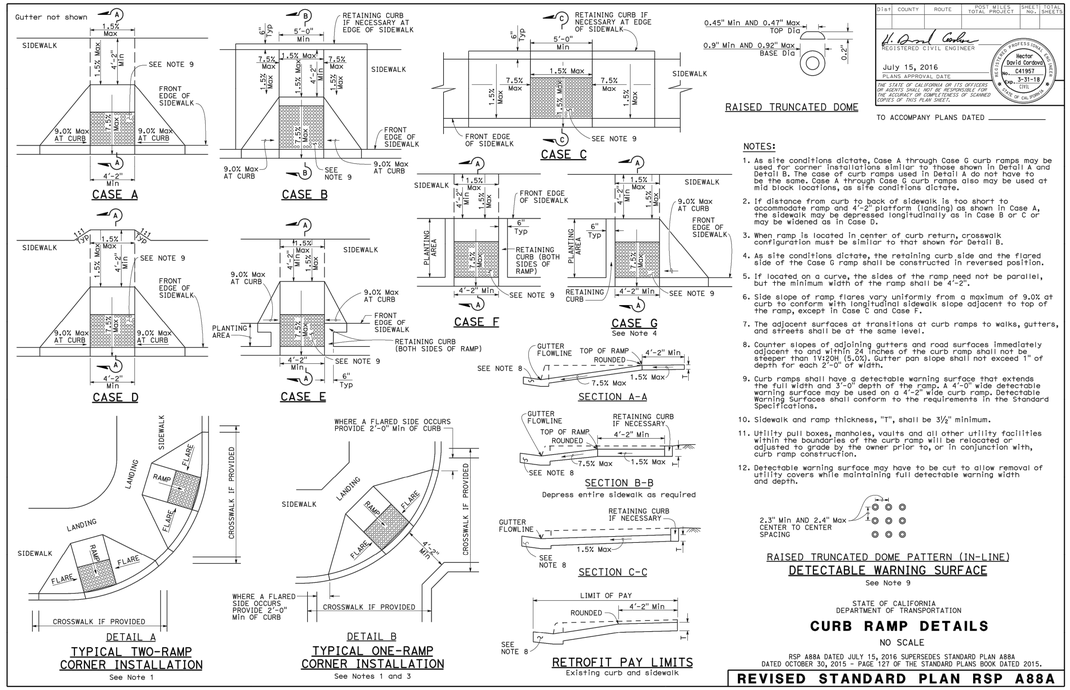
SCALE: NTS



C SEWER MANHOLE FRAME AND COVER

SCALE: NTS

1



NOTES:
1. As site conditions dictate, Case A through Case G curb ramps may be used for corner installations similar to those shown in Detail A and Detail B. The case of curb ramps used in Detail A do not have to be the same. Case A through Case G curb ramps also may be used at mid block locations, as site conditions dictate.
2. If distance from curb to back of sidewalk is too short to accommodate ramp and 4'-2" platform (landing) as shown in Case A, the sidewalk may be depressed longitudinally as in Case B or C or may be widened as in Case D.
3. When ramp is located in center of curb return, crosswalk configuration must be similar to that shown for Detail B.
4. As site conditions dictate, the retaining curb side and the flared side of the Case G ramp shall be constructed in reversed position.
5. If located on a curve, the sides of the ramp need not be parallel, but the minimum width of the ramp shall be 4'-2".
6. Side slope of ramp flares vary uniformly from a maximum of 9.0% at curb to conform with longitudinal sidewalk slope adjacent to top of the ramp, except in Case C and Case F.
7. The adjacent surfaces at transitions at curb ramps to walks, gutters, and streets shall be at the same level.
8. Counter slopes of adjoining gutters and road surfaces immediately adjacent to and within 24 inches of the curb ramp shall not be steeper than 1V:20H (5.0%). Gutter pan slope shall not exceed 1" of depth for each 2'-0" of width.
9. Curb ramps shall have a detectable warning surface that extends the full width and 3'-0" depth of the ramp. A 4'-0" wide detectable warning surface may be used on a 4'-2" wide curb ramp. Detectable Warning Surface shall conform to the requirements in the Standard Specifications.
10. Sidewalk and ramp thickness, "T", shall be 3½" minimum.
11. Utility pull boxes, manholes, vaults and all other utility facilities within the boundaries of the curb ramp will be relocated or adjusted to grade by the owner prior to, or in conjunction with, curb ramp construction.
12. Detectable warning surface may have to be cut to allow removal of utility covers while maintaining full detectable warning width and depth.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER

July 15, 2016
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED _____

CURB RAMP DETAILS

NO SCALE

RSP A88A DATED JULY 15, 2016 SUPERSEDES STANDARD PLAN A88A DATED OCTOBER 30, 2015 - PAGE 127 OF THE STANDARD PLANS BOOK DATED 2015.

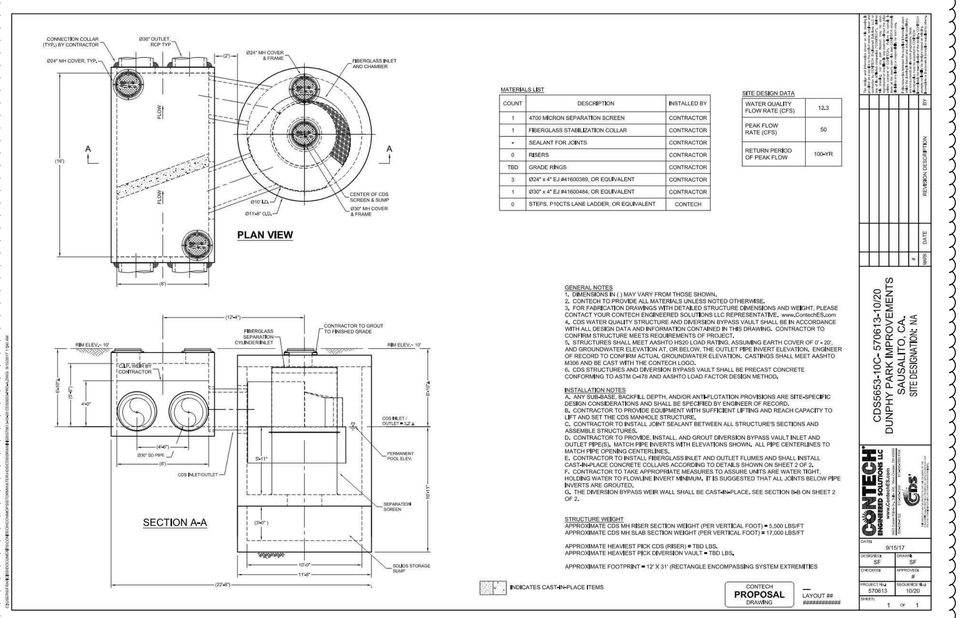
REVISED STANDARD PLAN RSP A88A

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

NOTES:
1. SLP FOR TRUNCATED DOMES

D ADA CURB RAMP

SCALE: NTS



COUNT	DESCRIPTION	INSTALLED BY
1	4700 MICRON SEPARATION SCREEN	CONTRACTOR
1	FIBERGLASS STABILIZATION COLLAR	CONTRACTOR
-	SEALANT FOR JOINTS	CONTRACTOR
0	RISERS	CONTRACTOR
TBD	GRADE RINGS	CONTRACTOR
3	Ø24" x 4" EJ #4160039, OR EQUIVALENT	CONTRACTOR
1	Ø30" x 4" EJ #4160494, OR EQUIVALENT	CONTRACTOR
0	STEPS, PI1OTS LANE LADDER, OR EQUIVALENT	CONTECH

SITE DESIGN DATA	
WATER QUALITY FLOW RATE (CFS)	12.3
PEAK FLOW RATE (CFS)	50
RETURN PERIOD OF PEAK FLOW	100-YR

GENERAL NOTES
1. DIMENSIONS IN [ ] MAY VARY FROM THOSE SHOWN.
2. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
3. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE, www.ContechESI.com
4. CDS WATER QUALITY STRUCTURE AND DIVERSION BYPASS VAULT SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
5. STRUCTURES SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 20', AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
6. CDS STRUCTURES AND DIVERSION BYPASS VAULT SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478 AND AASHTO LOAD FACTOR DESIGN METHOD.

INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE.
C. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE'S SECTIONS AND ASSEMBLE STRUCTURES.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT DIVERSION BYPASS VAULT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.
E. CONTRACTOR TO INSTALL FIBERGLASS INLET AND OUTLET FLUMES AND SHALL INSTALL CAST-IN-PLACE CONCRETE COLLARS ACCORDING TO DETAILS SHOWN ON SHEET 2 OF 2.
F. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNITS ARE WATER TIGHT. HOLDING WATER TO FLOWLINE INVERT MINIMUM, IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.
G. THE DIVERSION BYPASS WEIR WALL SHALL BE CAST-IN-PLACE, SEE SECTION B-B ON SHEET 2 OF 2.

STRUCTURE WEIGHT
APPROXIMATE CDS MH RISER SECTION WEIGHT (PER VERTICAL FOOT) = 5,500 LBS/FT
APPROXIMATE CDS MH SLAB SECTION WEIGHT (PER VERTICAL FOOT) = 17,000 LBS/FT

APPROXIMATE HEAVIEST PICK CDS (R8SEX) = TBD LBS.
APPROXIMATE HEAVIEST PICK DIVERSION VAULT = TBD LBS.

APPROXIMATE FOOTPRINT = 12' X 31' (RECTANGLE ENCOMPASSING SYSTEM EXTREMITIES

BY	REVISION DESCRIPTION	DATE	APPR.

CDS5563-10C-570613-10/20
DUNPHY PARK IMPROVEMENTS
SAUSALITO, CA
SITE DESIGNATION: NA

CONTECH ENGINEERED SOLUTIONS LLC
www.ContechES.com
800.338.1122
513.645.7000
513.645.7993 FAX

DATE	9/15/17
DESIGNER	SF
DRAWN	SF
CHECKED	
APPROVED	
PROJECT No.	570613
DESIGNED No.	10/20
SHEET	1 OF 1

E F SEDIMENT TRAP & INTERCEPT VAULT

SCALE: NTS

1

P:\2017\17-029_Dunphy\04_Design\01_CD\C4.0 - DETAILS.dwg,C4.2-Megan Wetz,9/15/2017 2:02:32 PM,ARCH full bleed D (24.00 x 36.00 Inches),1:1

Date Plotted: 9/15/2017 2:02 PM

rhaa
LANDSCAPE ARCHITECTURE + PLANNING
225 Miller Avenue, Mill Valley, CA 94941
T 415 383 7900 F 415 383 1433 www.rhaa.com

PROJECT/CLIENT NAME

Dunphy Park
Improvement Project

200 Napa Street
Sausalito, CA 94965

Owner:
City of Sausalito
420 Litho St.
Sausalito, CA 94965

RHAA PROJECT NUMBER

16042A

CONSULTANT

SUBMITTAL

Permit Submittal

DATE

21 August 2017

REVISIONS

No.	Date	Description
1	9-18-2017	Permit Plan Check Response

REGISTRATION AND SIGNATURE

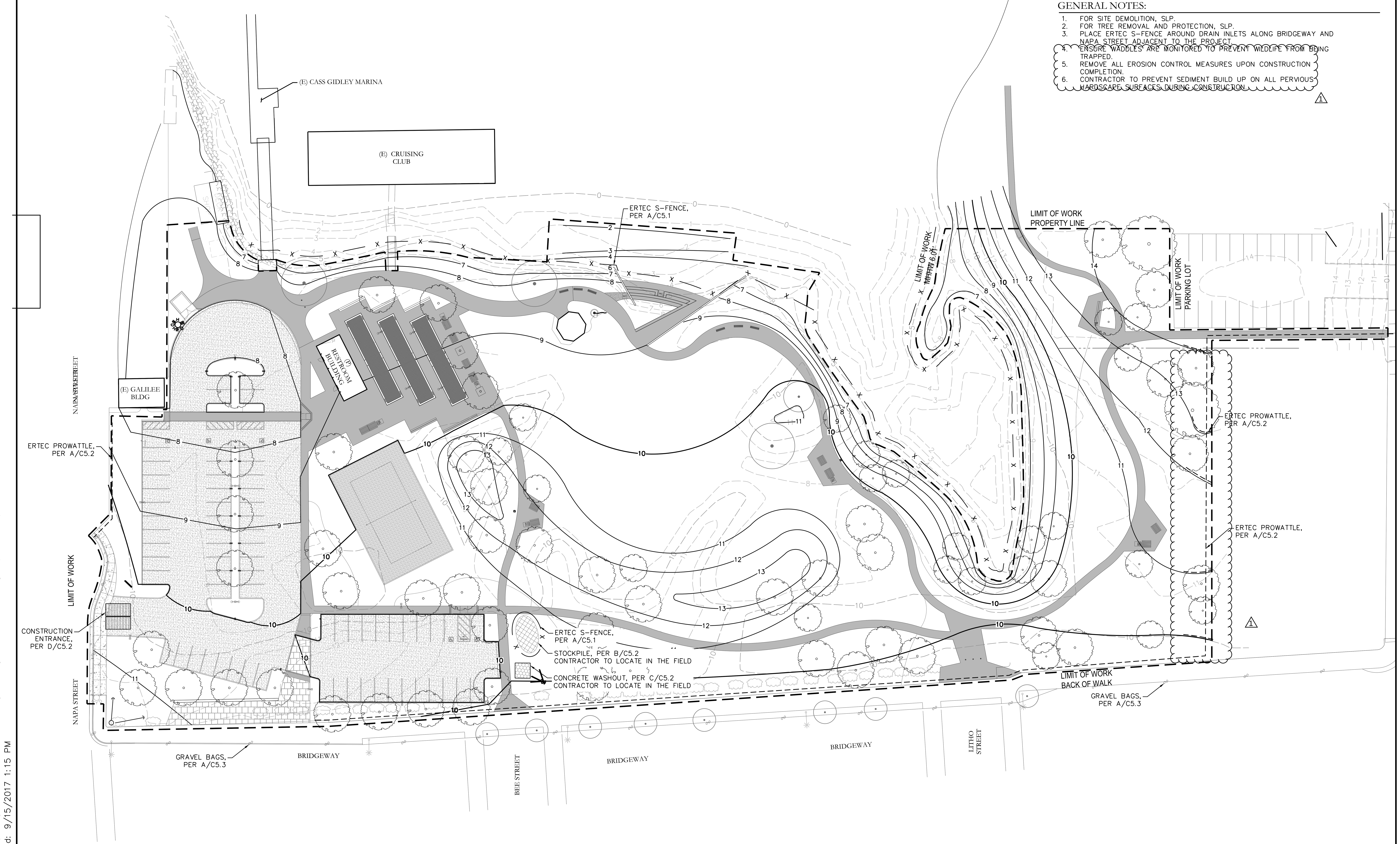
REGISTERED PROFESSIONAL ENGINEER
MEGAN ANDERSON WETZ
EXP. 12/31/17
CIVIL
STATE OF CALIFORNIA

SHEET TITLE

DETAILS

DRAWN BY: JG CHECKED BY: MW

C4.2



LEGEND

GRAVEL BAGS	
STOCKPILE	
CONCRETE WASHOUT	
SILT FENCE	— x — x — x — x —
ERTEC PROWATTLE	- - - - - - - -

GENERAL NOTES:

1. FOR SITE DEMOLITION, SLP.
2. FOR TREE REMOVAL AND PROTECTION, SLP.
3. PLACE ERTEC S-FENCE AROUND DRAIN INLETS ALONG BRIDGEWAY AND NAPA STREET ADJACENT TO THE PROJECT.
4. ENSURE WADDLES ARE MONITORED TO PREVENT WILDLIFE FROM BEING TRAPPED.
5. REMOVE ALL EROSION CONTROL MEASURES UPON CONSTRUCTION COMPLETION.
6. CONTRACTOR TO PREVENT SEDIMENT BUILD UP ON ALL PERVIOUS HARDSCAPE SURFACES DURING CONSTRUCTION.

1

rhaa
LANDSCAPE ARCHITECTURE + PLANNING
225 Miller Avenue, Mill Valley, CA 94941
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CONSULTANT

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DATE

21 August 2017

REVISIONS

No.	Date	Description
1	9-18-2017	Permit Plan Check Response

REGISTRATION AND SIGNATURE

0 15' 30' 60'
1" = 30'
N

SHEET TITLE

EROSION CONTROL PLAN

DRAWN BY: JG CHECKED BY: MW

C5.0

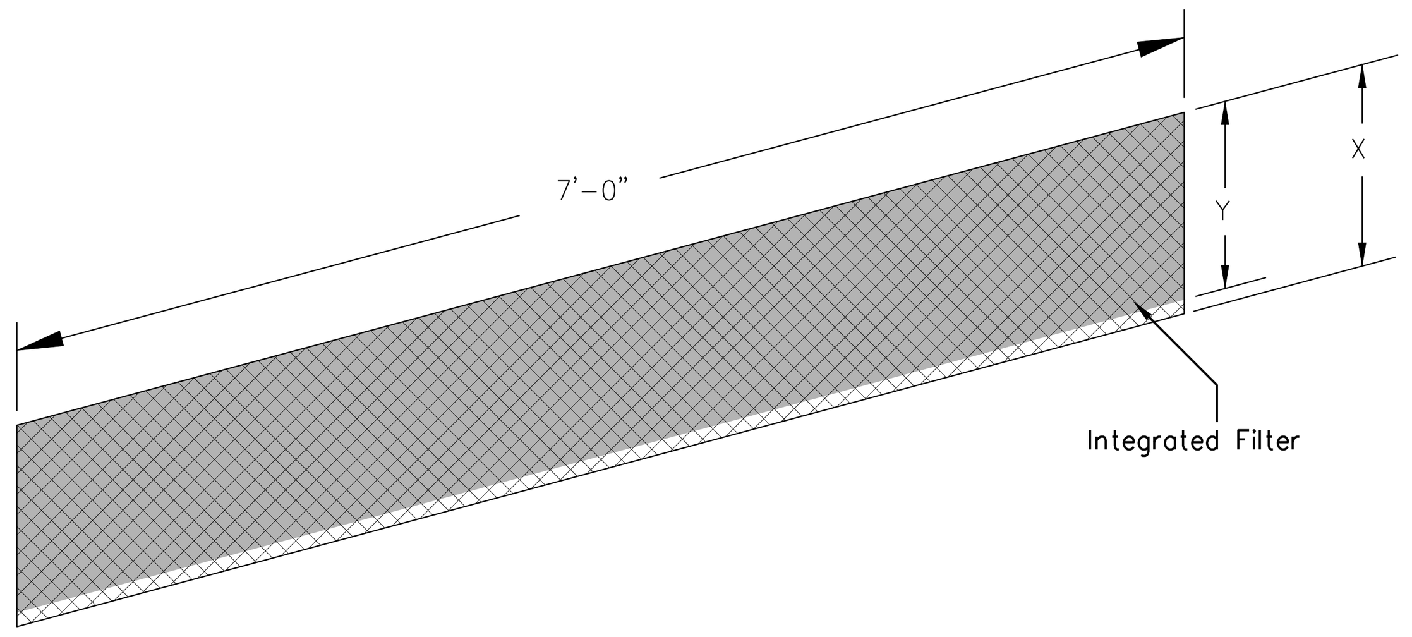
Date Plotted: 9/15/2017 1:15 PM

ERTEC® S-FENCE™ DETAILS

FENCE HEIGHT "X"	FILTER WIDTH "Y"
10"	9"
14"	12"
20"	18"

KEY BENEFITS:
- WILL NOT DETERIORATE OR BLOW DOWN
- REMOVE WITH MINIMAL DISTURBANCE TO LANDSCAPING
- COMPACT STORAGE AND TRANSPORTATION
- LONG LASTING (4+ YEARS)
- HIGH REUSABILITY
- LETS WATER FLOW OFF-SITE
- HIGH SEDIMENT RETENTION

APPROPRIATE APPLICATIONS:
- BASE OF STABILIZED SLOPES
- JOB PERIMETERS
- ALTERNATIVE TO SILT FENCE



PURPOSE
S-FENCE™ IS USED TO FILTER SEDIMENT LADEN WATER AND DETAIN A HIGH PERCENTAGE OF SEDIMENT AND ASSOCIATED POLLUTANTS. THE SYSTEM REDUCES THE VELOCITY OF WATER AND ALLOWS IT TO SPREAD AND FLOW-THROUGH AS LOWER VELOCITY SHEET FLOW. FLOW-THROUGH DISCOURAGES END-AROUND FLOWS, UNDER AND OVERFLOW. THE SYSTEM FILTERS CERTAIN SIZED SMALLER PARTICLES. THE FILTER DEVELOPS A FILTER CAKE, WHICH IN TURN FILTERS SMALLER AND SMALLER PARTICLES OVER TIME.

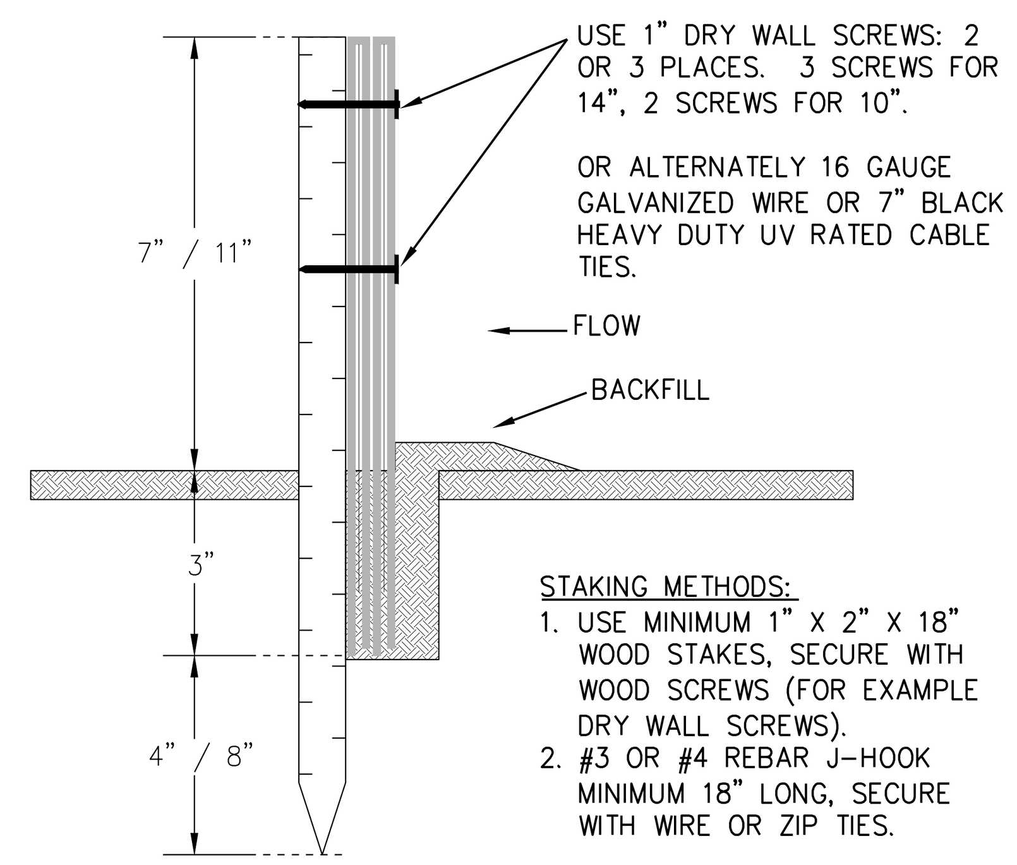
DESIGN CRITERIA
FOR DETAILED PRODUCT CHARACTERISTICS CONTACT ERTEC ENVIRONMENTAL SYSTEMS @ (866) 521-0724 OR WWW.ERTECSYSTEMS.COM. THE UNIT WEIGHT OF THE SYSTEM IS 0.30 LBS/FT (10"), 0.40 LBS/FT (14") AND 0.62 LBS/FT (20"). FOR INSTALLATION PROCEDURES, FOLLOW THE INSTRUCTIONS ON THE ATTACHED DRAWINGS. THE LAST IN-LINE S-FENCE™ SHOULD BE BENT AND DOG-LEGGED UPSLOPE TO ENSURE SEDIMENT CONTAINMENT.

MAINTENANCE
INSPECT S-FENCE™ WHEN RAIN IS FORECAST. PERFORM MAINTENANCE AS NEEDED OR AS REQUIRED. INSPECT S-FENCEÄ FOLLOWING RAINFALL EVENTS AND AT LEAST DAILY DURING PROLONGED RAINFALL. MAINTAIN S-FENCE™ TO PROVIDE AN ADEQUATE SEDIMENT HOLDING CAPACITY. SEDIMENT SHALL BE REMOVED WHEN THE SEDIMENT ACCUMULATION REACHES 50% OF THE BARRIER HEIGHT. REMOVED SEDIMENT SHOULD BE INCORPORATED IN THE PROJECT OUTSIDE OF CONCENTRATED FLOW PATHS. REMOVE S-FENCE™ AFTER THE SITE HAS BEEN STABILIZED.

** NOT TO SCALE ** | U.S. and International Patents Apply ©2009 ERTEC Environmental Systems
ERTEC Environmental Systems http://www.ertecsystems.com/
1150 Ballena Blvd. Suite 250 Alameda, CA 94501 | P. 866-521-0724 F. 510-521-3972
File Name: ERTEC_Installation_Details_S-Fence.dwg | Layout Name: P1 Details | Default Print Size: 8.5" x 11" | Page: 1 of 4

ERTEC® S-FENCE™ INSTALLATION DETAILS

10" OR 14", SF10 OR SF14

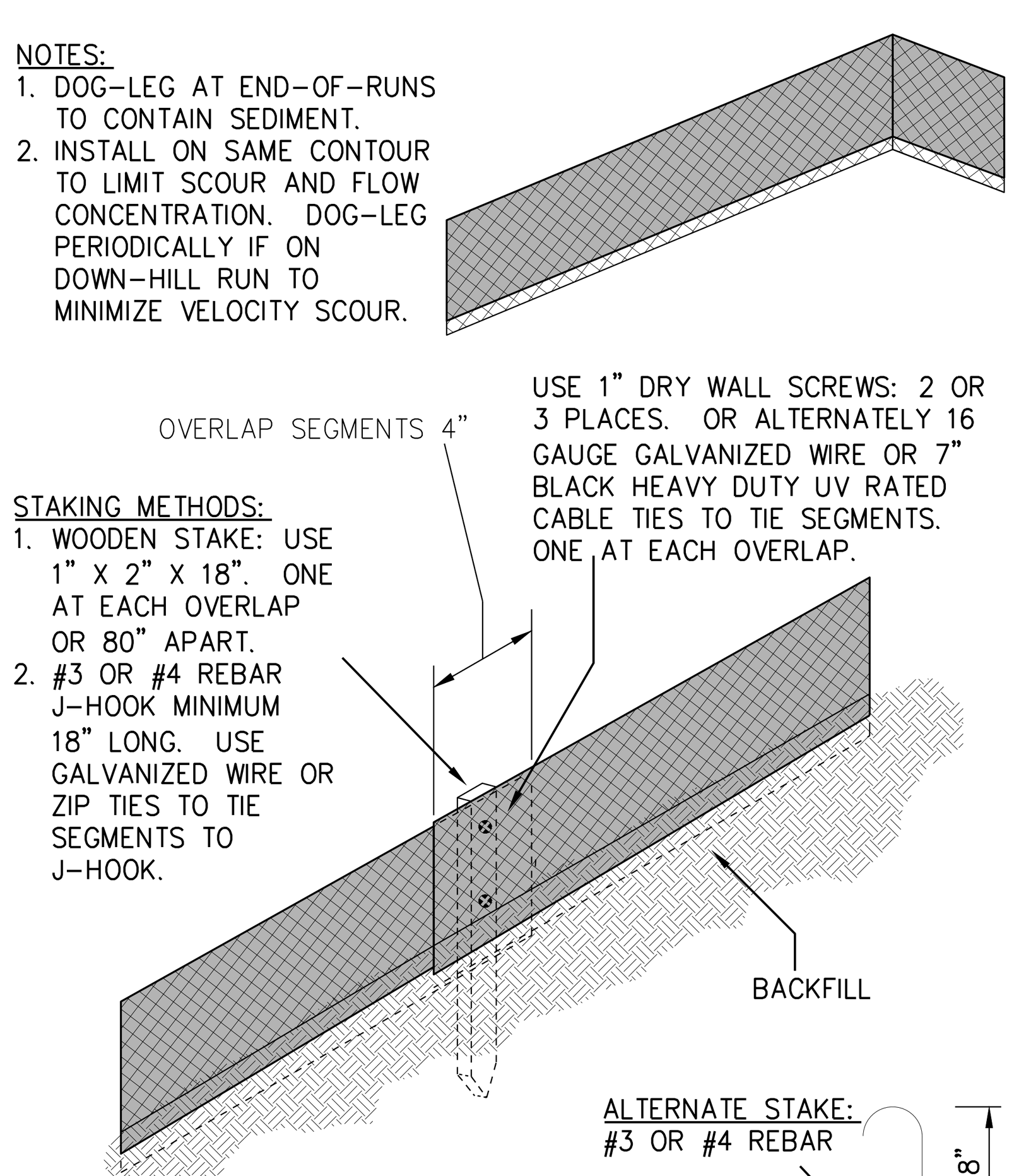


STAKING METHODS:
1. USE MINIMUM 1" X 2" X 18" WOOD STAKES, SECURE WITH WOOD SCREWS (FOR EXAMPLE DRY WALL SCREWS).
2. #3 OR #4 REBAR J-HOOK MINIMUM 18" LONG, SECURE WITH WIRE OR ZIP TIES.

NOTES:
1. CUT TRENCH 1½" TO 2" WIDE, 3" TO 4" DEEP.
2. INSTALL IN SLOT AGAINST DOWNSTREAM SIDE OF TRENCH WALL, BACKFILL THE TRENCH TO GRADE LEVEL.
3. OVERLAP SEGMENTS BY AT LEAST 4". INSTALL STAKES ON DOWNSTREAM SIDE OF SEGMENT OVERLAPS.
4. USE 1" DRY WALL SCREWS: 2 OR 3 PLACES. OR ALTERNATELY 16 GAUGE GALVANIZED WIRE OR 7" BLACK HEAVY DUTY UV STAPLE CABLE TIES (ZIP TIES) TO TIE SEGMENTS TOGETHER.

NOTES:
1. DOG-LEG AT END-OF-RUNS TO CONTAIN SEDIMENT.
2. INSTALL ON SAME CONTOUR TO LIMIT SCOUR AND FLOW CONCENTRATION. DOG-LEG PERIODICALLY IF ON DOWN-HILL RUN TO MINIMIZE VELOCITY SCOUR.

STAKING METHODS:
1. WOODEN STAKE: USE 1" X 2" X 18". ONE AT EACH OVERLAP OR 80" APART.
2. #3 OR #4 REBAR J-HOOK MINIMUM 18" LONG. USE GALVANIZED WIRE OR ZIP TIES TO TIE SEGMENTS TO J-HOOK.



IMPORTANT: ALL INFORMATION, INCLUDING ILLUSTRATIONS, IS BELIEVED TO BE RELIABLE. USERS, HOWEVER, SHOULD INDEPENDENTLY EVALUATE THE SUITABILITY OF EACH PROJECT FOR THEIR APPLICATION. ERTEC ENVIRONMENTAL SYSTEMS MAKES NO WARRANTIES AS TO THE ACCURACY OF COMPLETENESS OF THE INFORMATION, AND DISCLAIMS ANY LIABILITY REGARDING IS USE. ERTEC ENVIRONMENTAL SYSTEM'S ONLY OBLIGATIONS ARE THOSE IN THE ERTEC ENVIRONMENTAL SYSTEMS STANDARD TERMS AND CONDITIONS OF SALE FOR THIS PRODUCT, AND IN NO CASE WILL ERTEC ENVIRONMENTAL SYSTEMS OR ITS DISTRIBUTORS BE LIABLE FOR ANY INCIDENTAL INDIRECT OR CONSEQUENTIAL DAMAGES ARISING FOR THE SALE, RESALE, USE OR MISUSE OF THE PRODUCT. SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. IN ADDITION, ERTEC ENVIRONMENTAL SYSTEMS RESERVES THE RIGHT TO MAKE CHANGES, WITHOUT NOTIFICATION TO BUYER, TO PROCESSING OR MATERIALS THAT DO NOT AFFECT COMPLIANCE WITH ANY APPLICABLE SPECIFICATION.

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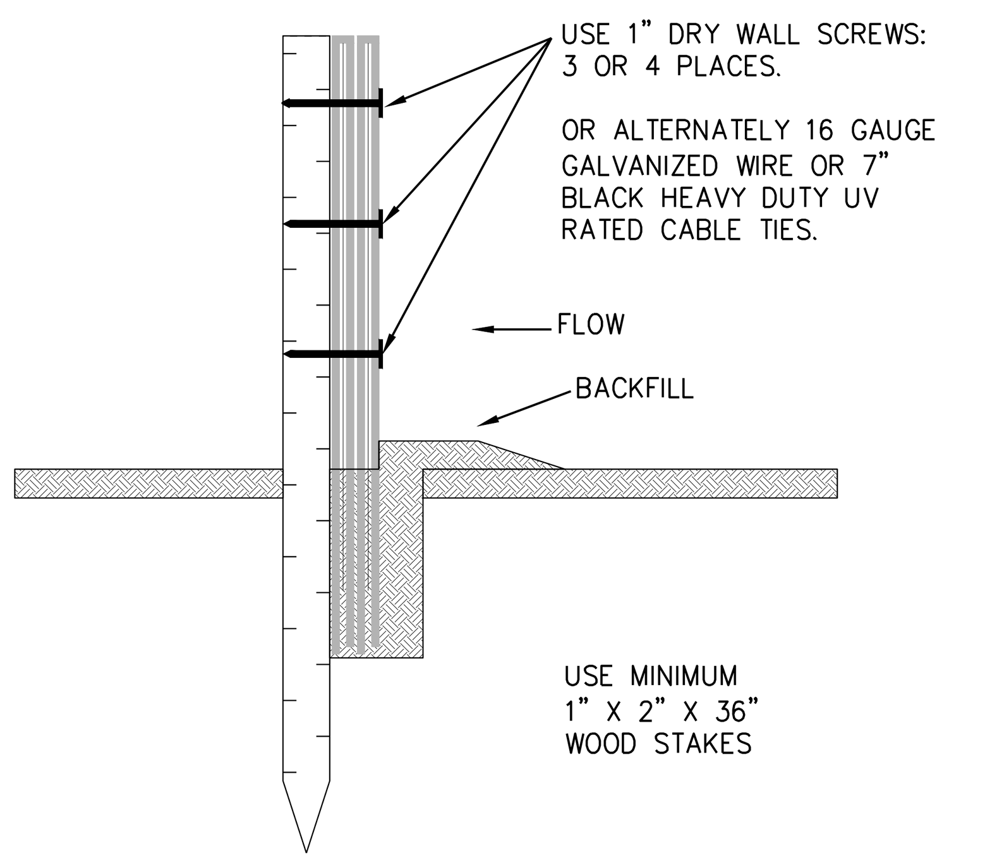
ERTEC Environmental Systems http://www.ertecsystems.com/
1150 Ballena Blvd. Suite 250 Alameda, CA 94501 | P. 866-521-0724 F. 510-521-3972
File Name: ERTEC_Installation_Details_S-Fence.dwg | Layout Name: P2 Installation Details | Default Print Size: 8.5" x 11" | Page: 2 of 4

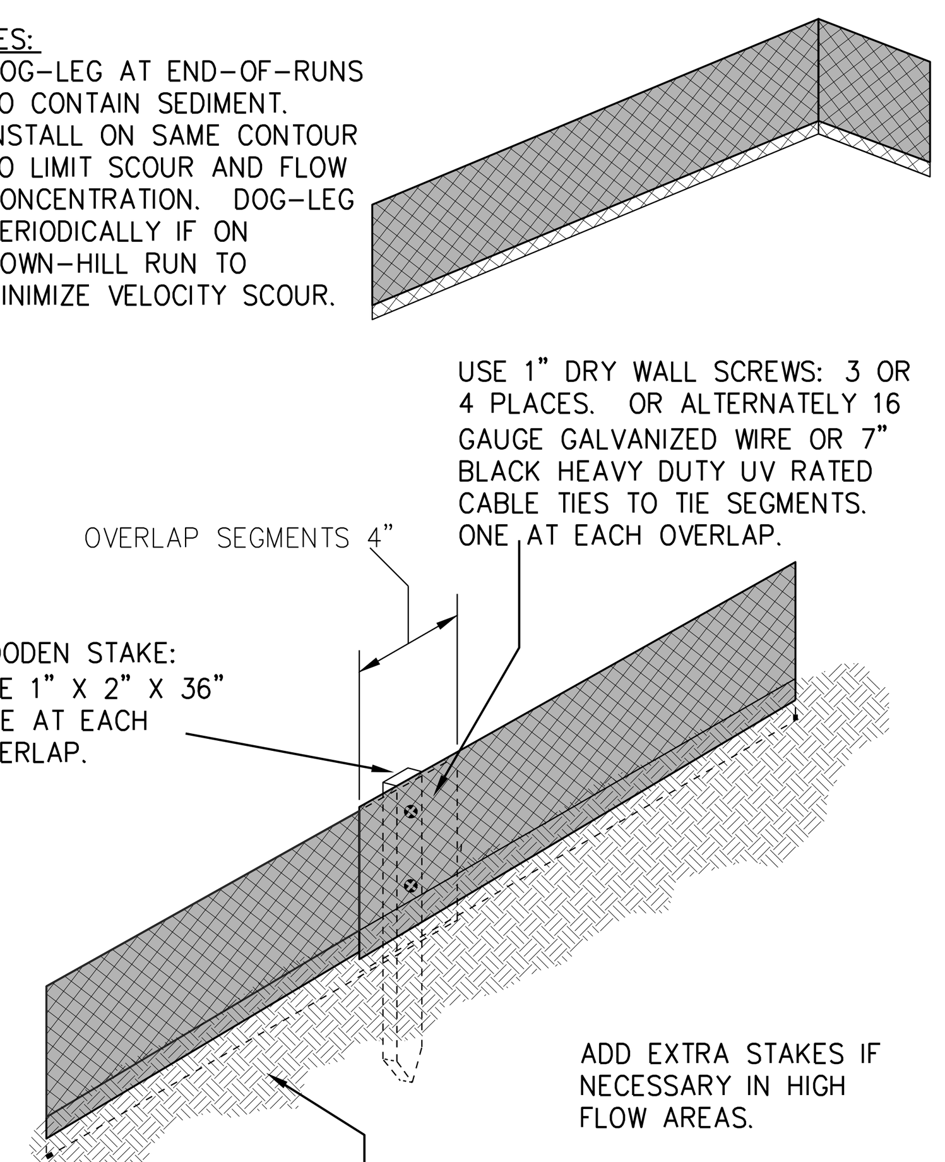
ERTEC® S-FENCE™ INSTALLATION DETAILS

20", SF20



NOTES:
1. CUT TRENCH 1½" TO 2" WIDE, 4" DEEP.
2. INSTALL IN SLOT AGAINST DOWNSTREAM SIDE OF TRENCH WALL, BACKFILL THE TRENCH TO GRADE LEVEL.
3. OVERLAP SEGMENTS BY AT LEAST 4". INSTALL STAKES AT DOWNSTREAM SIDE OF SEGMENT OVERLAPS AND ALSO ONE STAKE IN BETWEEN SEGMENTS.
4. USE 1" DRY WALL SCREWS: 3 OR 4 PLACES. OR ALTERNATELY 16 GAUGE GALVANIZED WIRE OR 7" BLACK HEAVY DUTY UV STAPLE CABLE TIES (ZIP TIES) TO TIE SEGMENTS TOGETHER.

NOTES:
1. DOG-LEG AT END-OF-RUNS TO CONTAIN SEDIMENT.
2. INSTALL ON SAME CONTOUR TO LIMIT SCOUR AND FLOW CONCENTRATION. DOG-LEG PERIODICALLY IF ON DOWN-HILL RUN TO MINIMIZE VELOCITY SCOUR.



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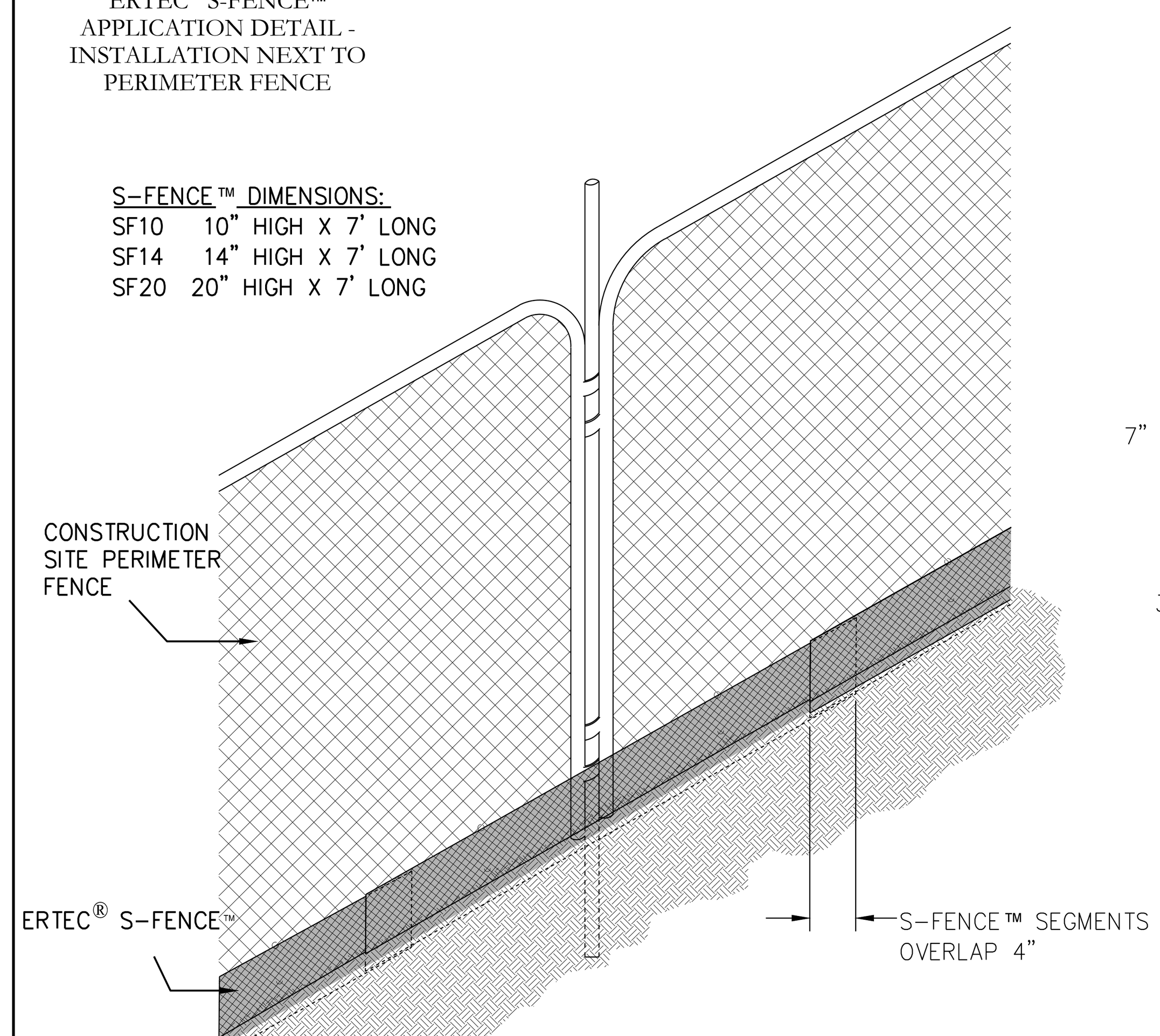
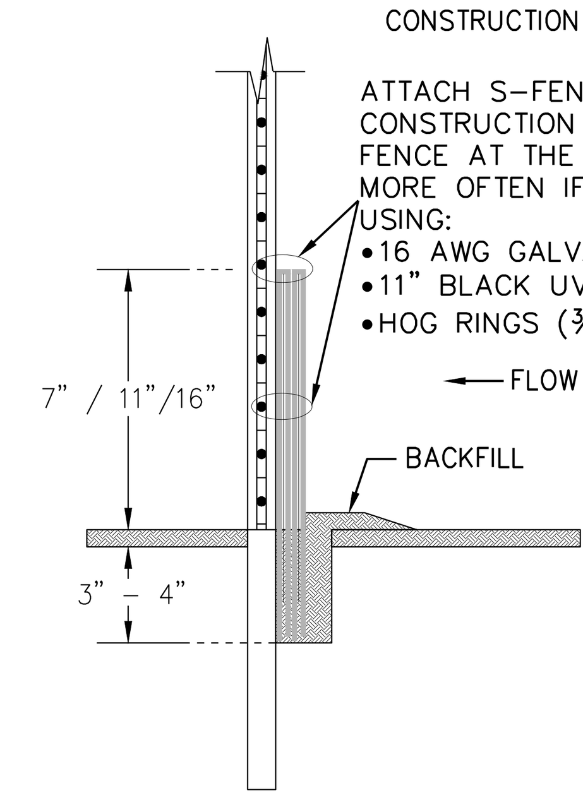
File Name: ERTEC_Installation_Details_S-Fence.dwg | Layout Name: P3 Installation Details | Default Print Size: 8.5" x 11" | Page: 3 of 4

ERTEC® S-FENCE™ APPLICATION DETAIL - INSTALLATION NEXT TO PERIMETER FENCE

S-FENCE™ DIMENSIONS:
SF10 10" HIGH X 7' LONG
SF14 14" HIGH X 7' LONG
SF20 20" HIGH X 7' LONG





NOTES:
1. CABLE-TIES WILL REQUIRE A PILOT HOLE FOR INSERTION. USE A PUNCH OR SMALL NAIL.
2. CUT TRENCH 1½" TO 2" WIDE, 3" TO 4" DEEP.
3. INSTALL IN SLOT AGAINST DOWNSTREAM SIDE OF TRENCH WALL, BACKFILL THE TRENCH TO GRADE LEVEL.
4. OVERLAP SEGMENTS BY AT LEAST 4".

IMPORTANT: ALL INFORMATION, INCLUDING ILLUSTRATIONS, IS BELIEVED TO BE RELIABLE. USERS, HOWEVER, SHOULD INDEPENDENTLY EVALUATE THE SUITABILITY OF EACH PROJECT FOR THEIR APPLICATION. ERTEC ENVIRONMENTAL SYSTEMS MAKES NO WARRANTIES AS TO THE ACCURACY OF COMPLETENESS OF THE INFORMATION, AND DISCLAIMS ANY LIABILITY REGARDING IS USE. ERTEC ENVIRONMENTAL SYSTEM'S ONLY OBLIGATIONS ARE THOSE IN THE ERTEC ENVIRONMENTAL SYSTEMS STANDARD TERMS AND CONDITIONS OF SALE FOR THIS PRODUCT, AND IN NO CASE WILL ERTEC ENVIRONMENTAL SYSTEMS OR ITS DISTRIBUTORS BE LIABLE FOR ANY INCIDENTAL INDIRECT OR CONSEQUENTIAL DAMAGES ARISING FOR THE SALE, RESALE, USE OR MISUSE OF THE PRODUCT. SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. IN ADDITION, ERTEC ENVIRONMENTAL SYSTEMS RESERVES THE RIGHT TO MAKE CHANGES, WITHOUT NOTIFICATION TO BUYER, TO PROCESSING OR MATERIALS THAT DO NOT AFFECT COMPLIANCE WITH ANY APPLICABLE SPECIFICATION.

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File Name: ERTEC_Installation_Details_S-Fence.dwg | Layout Name: P4 Application Details | Default Print Size: 8.5" x 11" | Page: 4 of 4

A S-FENCE INSTALLATION

SCALE: NTS

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225 Miller Avenue, Mill Valley, CA 94941
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PROJECT/CLIENT NAME
Dunphy Park Improvement Project
200 Napa Street
Sausalito, CA 94965

Owner:
City of Sausalito
420 Litho St.
Sausalito, CA 94965

RHAA PROJECT NUMBER
16042A

CONSULTANT

SUBMITTAL
Permit Submittal

DATE
21 August 2017

REVISIONS

No.	Date	Description
1	9-18-2017	Permit Plan Check Response

REGISTRATION AND SIGNATURE

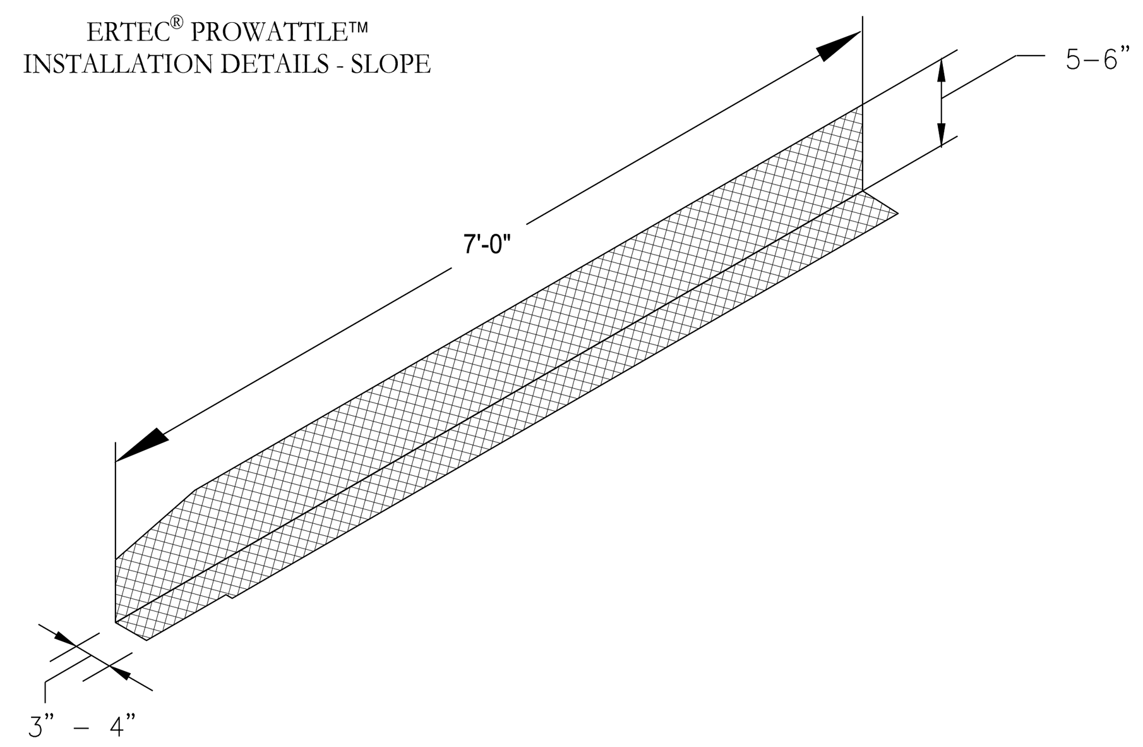
SHEET TITLE
EROSION CONTROL DETAILS

DRAWN BY: JG CHECKED BY: MW

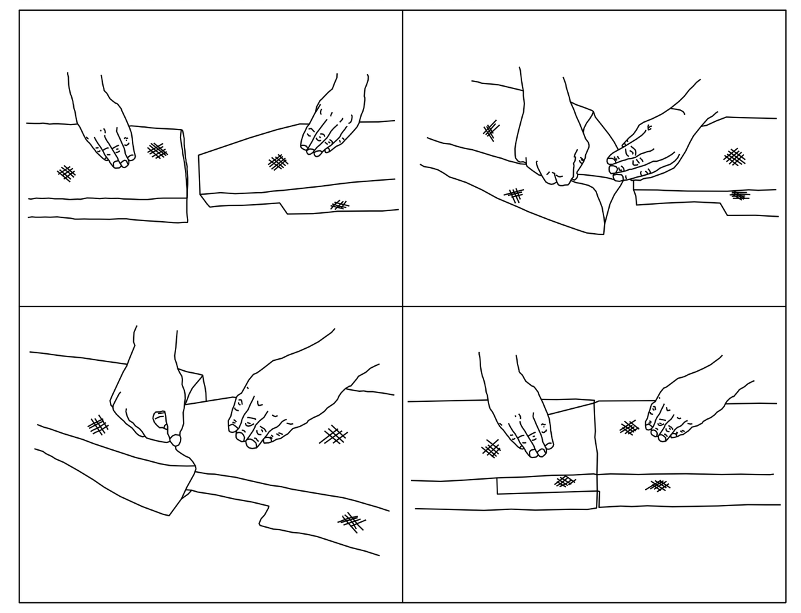
C5.1

Date Plotted: 9/15/2017 1:15 PM

ERTEC® PROWATTLE™ INSTALLATION DETAILS - SLOPE



PROWATTLE INSTALLATION TIPS



THE END OF ONE PW IS INSERTED INTO THE ADJOINING PW AND BUTTED UP AGAINST EACH OTHER. THEN BUTT THE TWO PW SEGMENTS TOGETHER FIRMLY.

FOR SLOPE INSTALLATION PROWATTLE SHALL BE INSTALLED AS FOLLOWS:

1. A SHELF-CUT SHALL BE CONSTRUCTED 4" HORIZONTALLY INTO THE SLOPE.
2. STAKES SHALL BE INSTALLED ON SLOPES. INSTALL STAKES 5 FEET APART. STAKES SHALL BE DRIVEN FLUSH WITH THE TOP OF THE PROWATTLE. WOOD STAKES SHALL BE AT MINIMUM: 1" X 1" X 12". REBAR J-HOOK STAKES (#3 OR #4) MUST BE A MINIMUM OF 18" LONG.
3. PROWATTLE SHALL BE PLACED AS FOLLOWS:

FEET APART ALONG THE SLOPE	SLOPE INCLINATION (VERTICAL:HORIZONTAL)
10 FEET	1:2 AND STEEPER
15 FEET	1:2 TO 1:4
20 FEET	1:4 AND 1:10
50 FEET	1:10 AND FLATTER

4. THE SHELF-CUT FOR PROWATTLE SHALL BE CLEARED OF OBSTRUCTIONS INCLUDING, BUT NOT LIMITED TO, ROCKS, CLODS, AND DEBRIS GREATER THAN 1" IN DIAMETER PRIOR TO INSTALLATION.
5. PROWATTLE SHALL BE INSTALLED PARALLEL TO THE SLOPE CONTOUR.
6. PROWATTLE SHALL BE INSTALLED PRIOR TO THE APPLICATION OF OTHER TEMPORARY EROSION CONTROL OR SOIL STABILIZATION MATERIALS IN THE SAME AREA.
7. WHEN NO LONGER REQUIRED, PROWATTLE CAN BE REMOVED AND REUSED. CRACK LOOSE AND SHAKE SEDIMENT FROM PROWATTLE SEGMENT. IT IS NOT NECESSARY TO CLEAN PROWATTLE OF ALL REMAINING SEDIMENT PRIOR TO REUSE (IT IS NOT NECESSARY TO PRESSURE-WASH PROWATTLE BETWEEN INSTALLATIONS). THE RESIDUAL SEDIMENT THAT REMAINS ON THE FILTER CAN BE BENEFICIAL AS A SECONDARY FILTER (FILTER CAKE) UPON SUBSEQUENT INSTALLATIONS. PRIOR TO REUSE, PERFORM 2-STEP QUALITY INSPECTION AS PER INSTALLATION GUIDE (WWW.ERTECSYSTEMS.COM).

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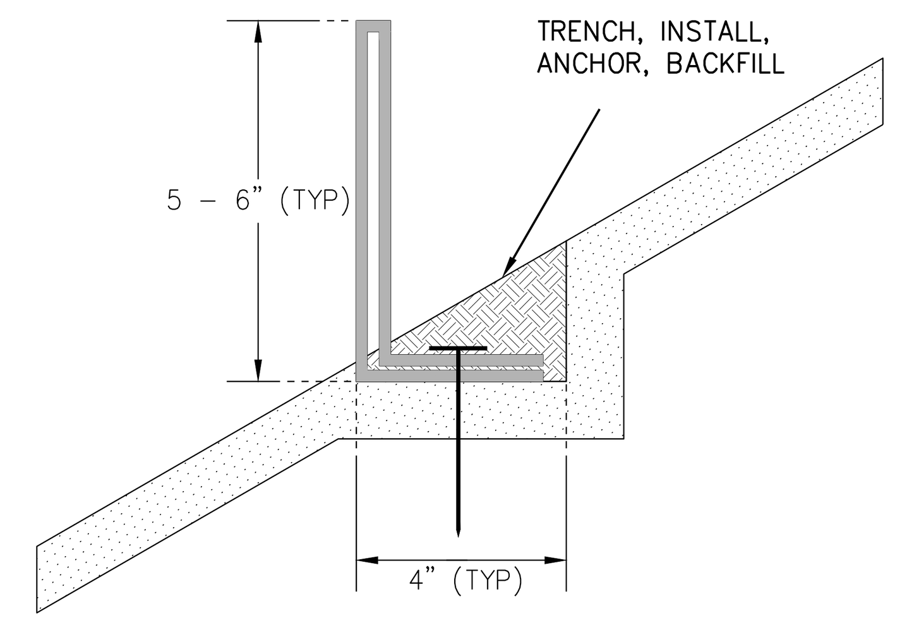
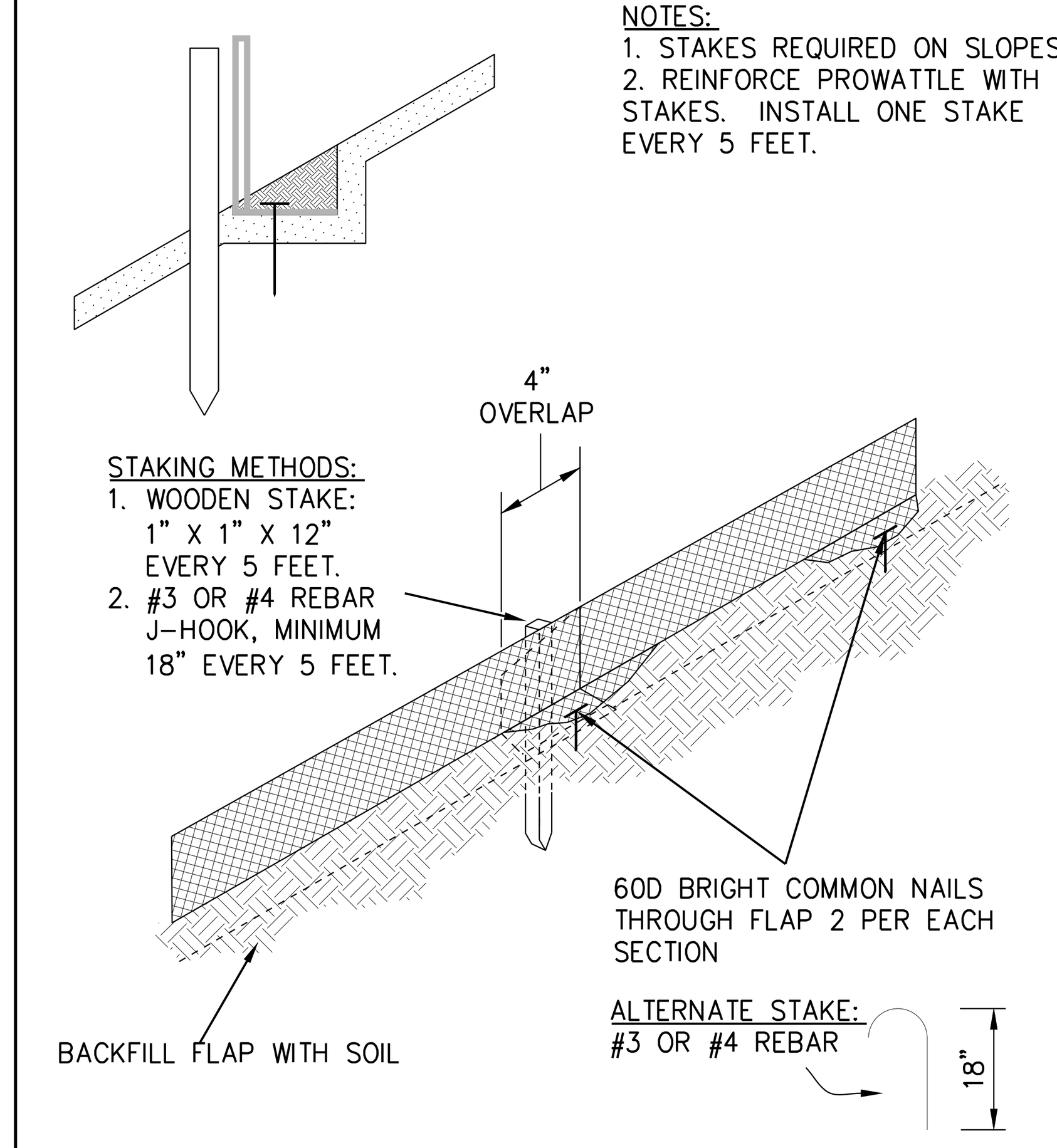
ERTEC® PROWATTLE™ INSTALLATION DETAILS - SLOPE



NOTES:

1. INSERT ADJOINING SEGMENTS. CHAMFERED END FITS INSIDE ADJOINING SEGMENT.
2. USE 6" NAILS (60D BRIGHT-COMMON). INSTALL 2 NAILS PER EACH 7' SEGMENT. ONE AT OVERLAP AND ONE MID-SEGMENT.
3. INSTALL NAILS FLUSH WITH FLAP SO THAT FLAP IS IN GOOD CONTACT WITH SOIL.
4. COVER FLAP WITH SOIL TO PREVENT UNDERCUTTING.
5. REINFORCE WITH STAKES AS SHOWN – ONE STAKE EVERY 5 FEET. IT IS NOT NECESSARY TO FASTEN THE STAKES TO PROWATTLE. POSITION STAKE ON DOWNSTREAM SIDE OF PROWATTLE TO MINIMIZE LEANING.

NOTES:
1. STAKES REQUIRED ON SLOPES
2. REINFORCE PROWATTLE WITH STAKES. INSTALL ONE STAKE EVERY 5 FEET.



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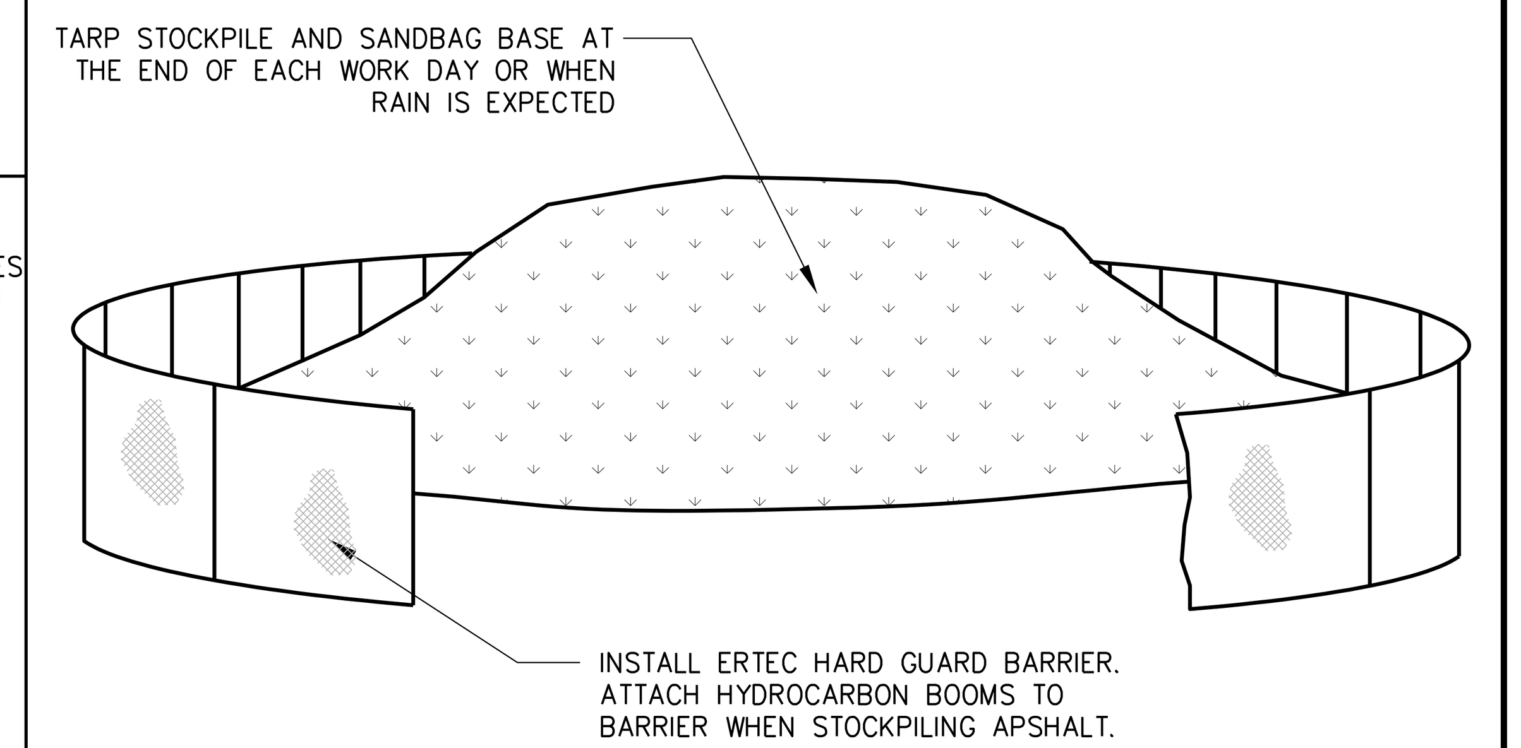

B STOCKPILE

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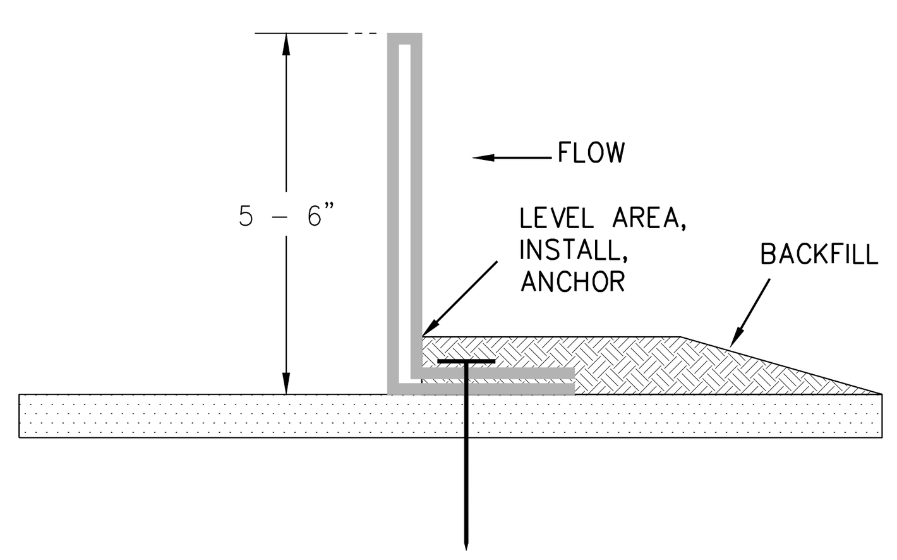
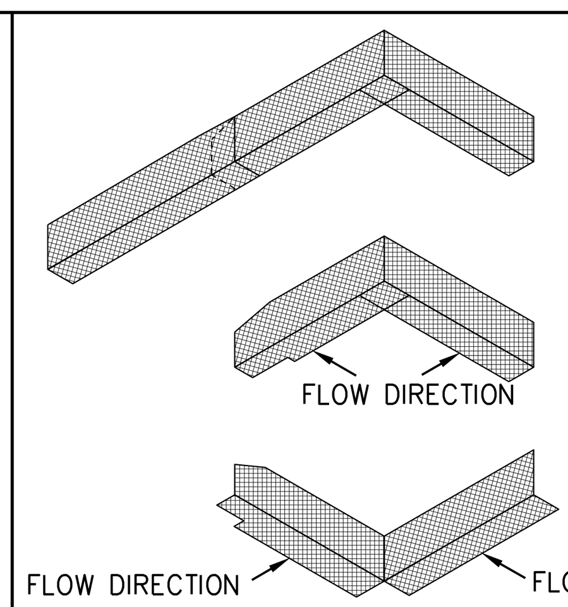
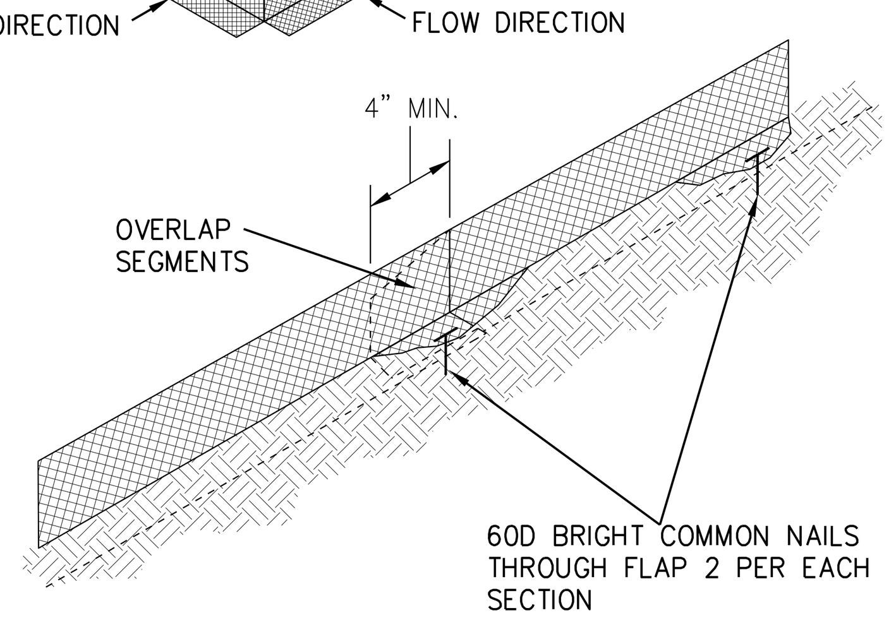
ERTEC® PROWATTLE™ INSTALLATION DETAILS - PERIMETER





NOTES:
1. TO BEND PROWATTLE™ AROUND OBSTACLES, FIRST SLIT FLAP THROUGH TO CREASE. THEN BEND TO DESIRED ANGLE, IN EITHER DIRECTION, AS SHOWN.
2. DOG-LEG AT END-OF-RUNS OR BEND AROUND OBSTACLES TO CONTAIN SEDIMENT.
3. DOG-LEG PERIODICALLY ON DOWN HILL RUN TO SLOW VELOCITY AND PREVENT SCOUR.



NOTES:
1. INSERT ADJOINING SEGMENTS. CHAMFERED END FITS INSIDE ADJOINING SEGMENT.
2. USE 6" NAILS (60D BRIGHT-COMMON). INSTALL 2 NAILS PER EACH 7' SEGMENT. ONE AT OVERLAP AND ONE MID-SEGMENT.
3. INSTALL NAILS FLUSH WITH FLAP SO THAT FLAP IS IN GOOD CONTACT WITH SOIL.
4. COVER FLAP WITH 1" OF SOIL TO PREVENT UNDERCUTTING – NOT NECESSARY TO TRENCH.
5. STAKES MIGHT BE REQUIRED. IF SO, INSTALL AS NECESSARY.

MAINTENANCE: PERFORM MAINTENANCE AS REQUIRED. INSPECT FOLLOWING RAINFALL EVENTS AND AT LEAST DAILY DURING PROLONGED RAINFALL. MAINTAIN TO PROVIDE AN ADEQUATE SEDIMENT HOLDING CAPACITY. DEBRIS SHALL BE REMOVED DAILY AND SEDIMENT SHALL BE REMOVED WHEN THE SEDIMENT ACCUMULATION REACHES 50% OF THE BARRIER HEIGHT. REMOVED SEDIMENT SHALL BE INCORPORATED IN THE PROJECT AT DESIGNATED LOCATIONS.

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A ERTEC PROWATTLE

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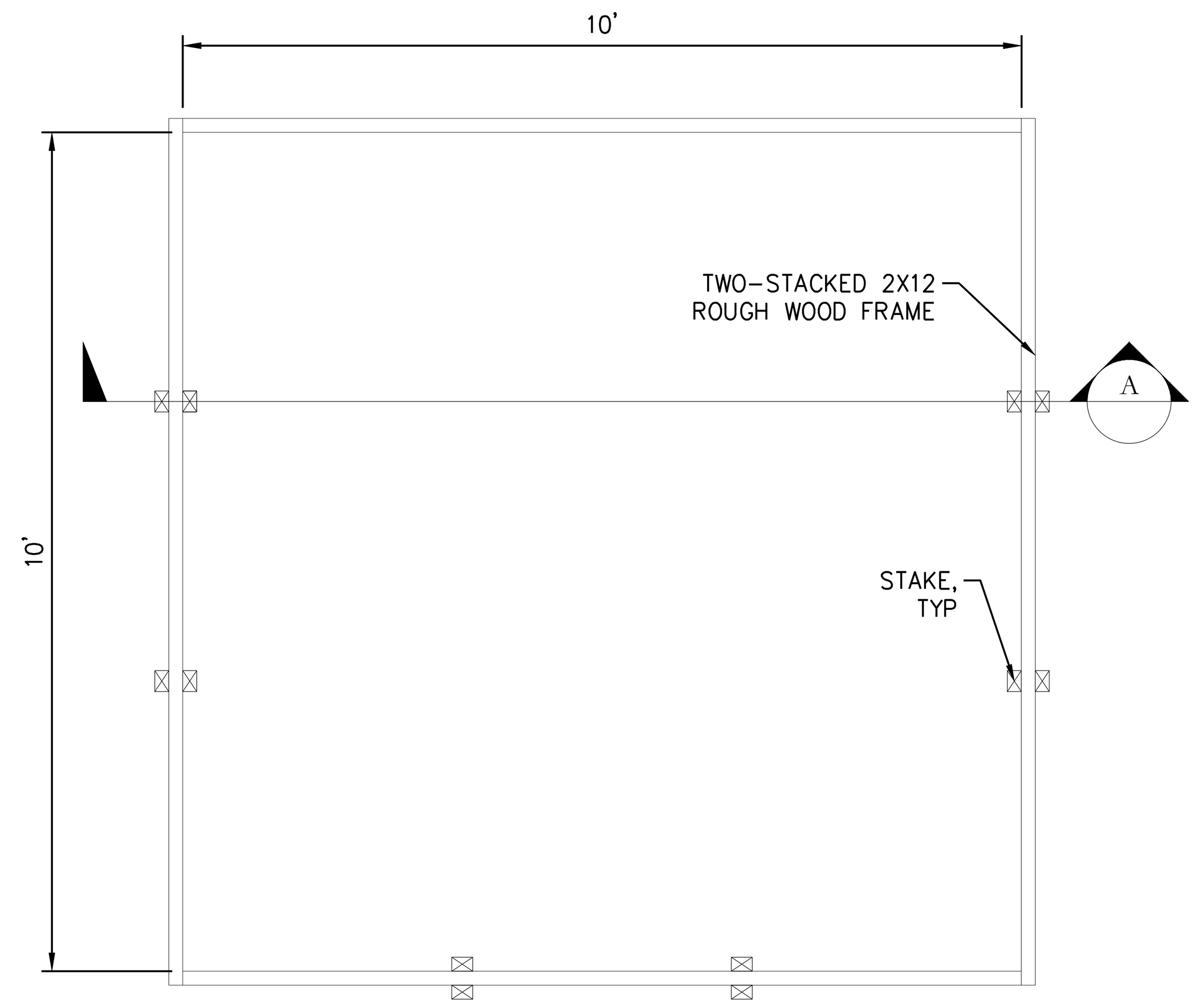
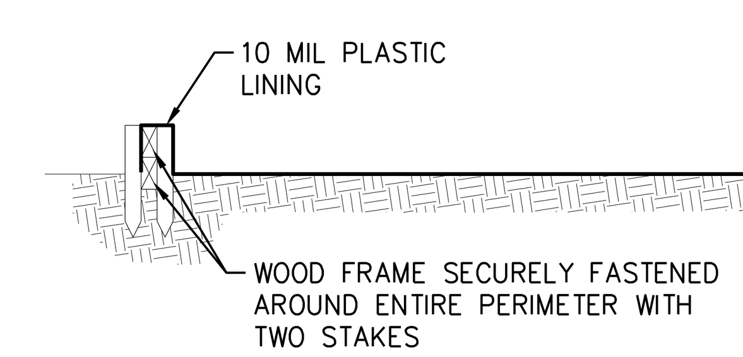


PLAN VIEW

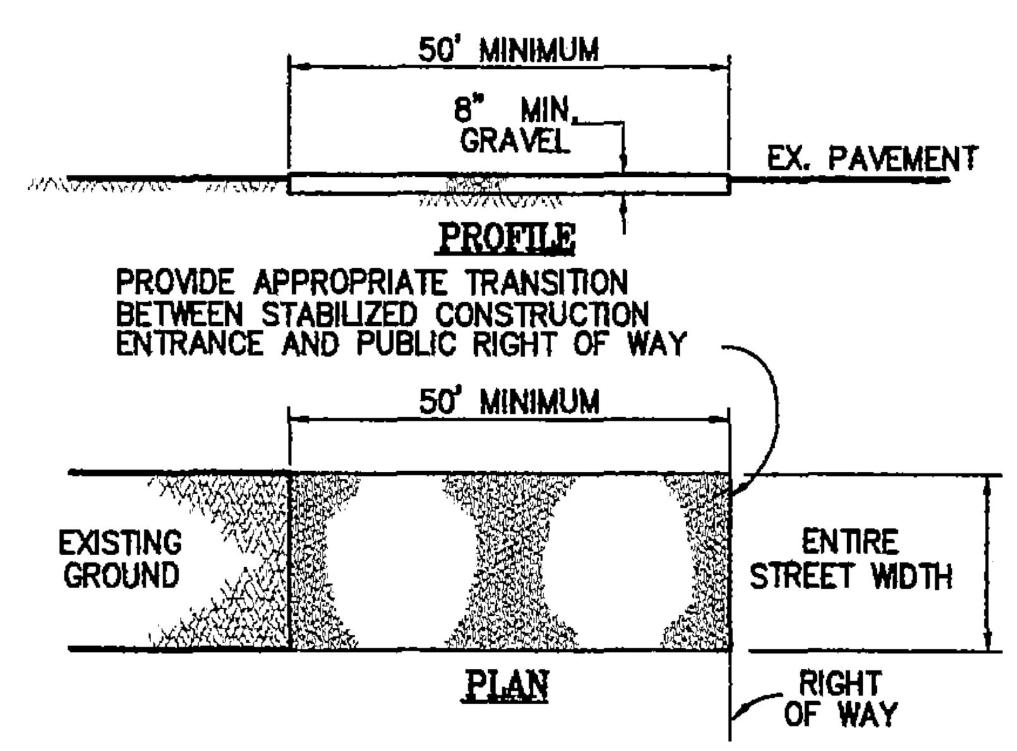


SECTION A-A

NOTES:
1. ACTUAL LAYOUT DETERMINED IN FIELD
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30FT OF THE TEMPORARY CONCRETE WASHOUT FACILITY

C CONCRETE WASHOUT

SCALE: NTS



CONSTRUCTION SPECIFICATIONS

1. THE MATERIAL FOR CONSTRUCTION SHALL BE 3 TO 4 INCH ROCK
2. LENGTH – AS EFFECTIVE, BUT NOT LESS THAN 50 FEET (1)
3. THICKNESS – NOT LESS THAN TWELVE (12) INCHES.
4. WIDTH – NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
5. WASHING – WHEN NECESSARY; WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT OF WAY. WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATERCOURSE THROUGH USE OF SAND BAGS, GRAVEL BOARDS OR OTHER APPROVED METHODS.
6. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT OF WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONES AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MESURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT OF WAY MYST BE REMOVED IMMEDIATELY.

D CONSTRUCTION ENTRANCE

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CONSULTANT

SUBMITTAL

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DATE

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REGISTRATION AND SIGNATURE

SHEET TITLE

EROSION CONTROL DETAILS

DRAWN BY: JG CHECKED BY: MW

C5.2

Date Plotted: 9/15/2017 1:15 PM

BioD-Rockbag™

Biodegradable coir rock bags

Completely Wildlife Safe!

Description

BioD-Rockbag, coir rock bags are made from BioD-Mat 90 woven coir mat which has a minimum weight of 980 g/ sq.m and 38% open area. These bags are strong, durable and completely wildlife safe. These coir rock bags filter sediment effectively and can stand heavy equipment better than synthetic rock bags. Each bags comes with coir twine string so that these bags can be joined together to perform as one unit. Coir rock bags are manufactured to conform to the following properties:

Specifications

Property	BioD-Rockbag™
Unit weight	29 oz/sy (980 g/m)
Thickness	0.35 in (9 mm)
Rock bag sizes	24 in x 10 in (60 cm x 25 cm) 24 in x 36 in (60 cm x 90 cm)
Fabric	BioD-Mat 90 woven bristle coir blanket
Strength of fabric Machine direction Cross direction	 2024 lbs./ft. (29.6 kN/m) 1160 lbs/ft (17 kN/m)

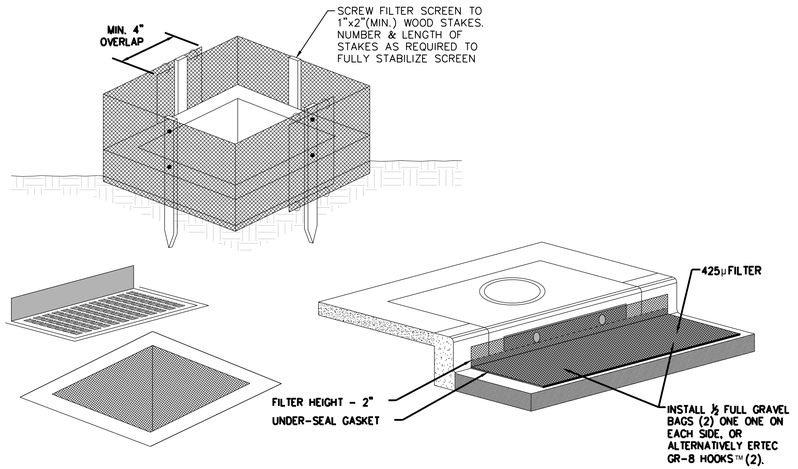
RoLanka™ International, Inc.
The True Green Solution
155 Andrew Drive, Stockbridge, GA 30281

1 800 760 3215
Tel: 770 506 8211 Fax: 770 506 0391
E-mail: rolanka@rolanka.com
Web: www.rolanka.com

SBA's 8(a) & SDB and DOT DBE Certified

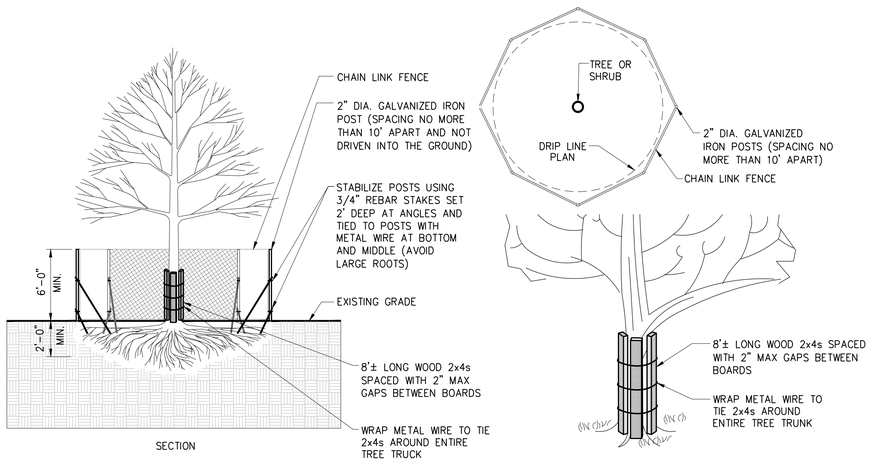
A GRAVEL BAGS

SCALE: NTS



B DROP GUARD INSTALLATION

SCALE: NTS



NOTE:
PROVIDE SIMILAR INSTALLATION CONTINUOUSLY WHERE NOTED ON DRAWING

C TREE PROTECTION FENCE

SCALE: NTS

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Date Plotted: 9/15/2017 1:15 PM

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REVISIONS

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1	9-18-2017	Permit Plan Check Response

REGISTRATION AND SIGNATURE

REGISTERED PROFESSIONAL ENGINEER
MARY ANDERSON
EXP. 12/31/17
CIVIL
STATE OF CALIFORNIA

SHEET TITLE

EROSION CONTROL DETAILS

DRAWN BY: JG CHECKED BY: MW

C5.3

POWER SYMBOLS

PANELBOARD, 120/240V, SURFACE MOUNTED SIZE APPROXIMATELY AS SHOWN	DUPLEX CONVENIENCE RECEPTACLE OUTLET, WITH GROUND MOUNT AT +18" UON, 125V, 15A, TAMPER RESISTANT TYPE
PANELBOARD, 120/240V, FLUSH MOUNTED SIZE APPROXIMATELY AS SHOWN	DOUBLE DUPLEX CONVENIENCE RECEPTACLE OUTLET, WITH GROUND MOUNT AT +18" UON, 125V, 20A
DISCONNECT SWITCH (F=FUSED)	GFCI DUPLEX CONVENIENCE RECEPTACLE OUTLET, MOUNT HORIZONTALLY AT +6" ABOVE COUNTER UON, 125V, 15A
ELECTRICAL MOTOR CONNECTION	GFCI DUPLEX CONVENIENCE RECEPTACLE OUTLET, WITH GROUND MOUNT AT +18" UON, 125V, 15A
JUNCTION BOX, MOUNT ABOVE ACCESSIBLE CEILING UON	CONTROLLED DUPLEX CONVENIENCE RECEPTACLE OUTLET, UON, 125V, 15A. THE LETTER INDICATES THE SWITCH LEG.
JUNCTION BOX, WALL MOUNTED, +18" UON	DUPLEX GROUND RECEPTACLE OUTPUT FLUSH MOUNTED IN CEILING. 125V, 20A
JUNCTION BOX, FLOOR MOUNTED	DUPLEX CONVENIENCE RECEPTACLE OUTLET, MOUNT HORIZONTALLY AT +6" ABOVE COUNTER UON, 125V, 15A
STANDARD TEL/DATA WALL OUTLET, MOUNT AT SAME HEIGHT AS ADJACENT RECEPTACLE.	SPECIALTY RECEPTACLE OUTLET, MOUNT AT +18" UON TYPE AS INDICATED
STANDARD DATA WALL OUTLET, MOUNT AT SAME HEIGHT AS ADJACENT RECEPTACLE.	RECESSED FLUSH DUPLEX RECEPTACLE OUTLET 125V, 20A.
SYSTEM SMOKE DETECTOR, SURFACE MOUNTED IN CEILING	RECESSED FLUSH DOUBLE DUPLEX RECEPTACLE OUTLET, 125V, 20A.
SINGLE POLE SWITCH, MOUNT AT +42" UON, LETTER INDICATES THE SWITCH LEG UON	MOTION SENSOR
KEY OPERATED SWITCH, MOUNT AT +42" UON	PHOTOCELL
CONDUIT AND WIRE RUN IN WALL OR CEILING SPACE	
CONDUIT AND WIRE RUN CONCEALED IN SLAB, UNDER SLAB OR UNDERGROUND	

GENERAL NOTES

1. ARCHITECTURAL DRAWINGS TAKE PRECEDENCE OVER ENGINEERING DOCUMENTS FOR EXACT LOCATION, MOUNTING HEIGHTS AND SUSPENSION LENGTHS OF ALL ELECTRIC EQUIPMENT AND LIGHTING FIXTURES.
2. SEE ELECTRICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
3. PROVIDE AND INSTALL ALL REQUIRED WIRING AND RACEWAYS TO ACHIEVE THE CIRCUITING SHOWN WHETHER THE INTERCONNECTIONS ARE SHOWN OR NOT.
4. CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF AS-BUILT DOCUMENTS THROUGHOUT CONSTRUCTION INDICATING CONDUIT ROUTING, JUNCTION BOX LOCATIONS AND ACTUAL CIRCUIT NUMBER USED AT EACH ELECTRICAL DEVICE. AS-BUILT DOCUMENTS SHALL ACCURATELY REFLECT NEW AND EXISTING CONDITIONS.
5. UPON PROJECT COMPLETION, PROVIDE TWO SETS OF ALL AS-BUILT DOCUMENTS TO OWNER AND ARCHITECT.
6. PROVIDE ACCURATE PANELBOARD DIRECTORIES FOR ALL PANELS. INDICATE NEW AND EXISTING CIRCUITS AS WELL AS SPARE CIRCUITS AND BREAKER SPACES. TURN "OFF" ALL SPARE BREAKERS.

LIGHTING SYMBOLS

SEE LIGHTING SCHEDULE FOR FIXTURE TYPES.

a A1 13	FLUORESCENT OR LED LIGHTING FIXTURE, REFER TO FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION A1 = FIXTURE TYPE 13 = CIRCUIT a = SWITCH LEG
	ROUND PENDANT LIGHTING FIXTURE, REFER TO FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION
	ROUND RECESSED DOWNLIGHT, REFER TO FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION
	FLUORESCENT OR LED LIGHTING FIXTURE, WALL MOUNTED, REFER TO FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION
	EXIT SIGN WITH INTEGRAL EMERGENCY BACKUP, CEILING OR WALL MOUNTED. DIRECTIONAL ARROW(S) AS INDICATED, ILLUMINATED FACE AS INDICATED BY SHADING.
EM	FLUORESCENT OR LED LIGHTING FIXTURE WITH INTEGRAL EMERGENCY BATTERY BACKUP.
A1 13	LIGHTING FIXTURE(S). POLE MOUNTED. NUMBER OF ARMS AS SHOWN ON DRAWINGS. REFER TO FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION A1 = FIXTURE TYPE 13 = CIRCUIT

CODE COMPLIANCE

ALL WORK PERFORMED UNDER THIS CONTRACT SHALL CONFORM TO THE FOLLOWING CODES AND REGULATIONS AS APPLICABLE:

- 2016 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR)
- 2016 CALIFORNIA BUILDING CODE, VOLUMES 1 AND 2 (PART 2, TITLE 24, CCR)
- 2016 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR)
- 2016 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR)
- 2016 CALIFORNIA FIRE CODE (PART 9, TITLE 24, CCR)
- 2016 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR)

ABBREVIATIONS

AC	ABOVE COUNTER	(E)	EXISTING TO REMAIN	GND	GROUND	(N)	NEW
AFF	ABOVE FINISHED FLOOR	EC	EMPTY CONDUIT	GD	GARBAGE DISPOSAL	N, NEUT	NEUTRAL
AIC	AMPERES INTERRUPTING CAPACITY	ECC	ENGINEERING CONTROL CENTER	G	GROUND FAULT INTERRUPTER	NIC	NOT IN CONTRACT
AHU	AIR HANDLING UNIT	ECH	ELECTRIC CABINET HEATER			NC	NORMALLY CLOSED
ATS	AUTOMATIC TRANSFER SWITCH	EF	EXHAUST FAN	HID	HIGH INTENSITY DISCHARGE	NO	NORMALLY OPEN
A/V	AUDIO VISUAL	ELEV	ELEVATOR	HP	HEAT PUMP	NEC	NATIONAL ELECTRICAL CODE
		EM	EMERGENCY	HX	HEAT EXCHANGER	NTS	NOT TO SCALE
B	BOILER	EMT	ELECTRICAL METALLIC TUBING				
BMS	BUILDING MANAGEMENT SYSTEM	EPO	EMERGENCY POWER OFF	IC	INTERRUPTING CAPACITY	OL	OVERLOAD RELAY
BP	BOOSTER PUMP	EWH	ELECTRIC WATER HEATER	IG	ISOLATED GROUND	OG	OZONE GENERATOR
		EWC	ELECTRIC WATER COOLER	IWH	INSTANT WATER HEATER		
C	CONDUIT			IP	IRRIGATION PUMP	P	PUMP
C.O.	CONDUIT ONLY	F	FUSED			PB	PUSHBUTTON SWITCH
CB	CIRCUIT BREAKER	FAAP	FIRE ALARM ANNUNCIATOR PANEL	JB	JUNCTION BOX	PC	PHOTOCELL
CO	CARBON MONOXIDE SENSOR	FACP	FIRE ALARM CONTROL PANEL			PIV	POST INDICATING VALVE
CHWP	CHILLED WATER PUMP	FATC	FIRE ALARM TERMINAL CABINET	LCP	LIGHTING CONTROL PANEL	PNL	PANELBOARD
CKT	CIRCUIT	FBO	FURNISHED BY OTHERS			POC	POINT OF CONNECTION
CL	CENTER LINE	FCC	FIRE CONTROL CENTER	MAU	MAKE UP AIR UNIT	POS	POINT OF SALE
CM	COFFEE MAKER	FCU	FAN COIL UNIT	MCC	MOTOR CONTROL CENTER	PRT	PRINTER
CP	CIRCULATION PUMP	FLUOR	FLUORESCENT	MIC	MINERAL INSULATED CABLE	PVC	POLYVINYL CHLORIDE CONDUIT
CT	CURRENT TRANSFORMER	FP	FIRE PUMP	MD	MOTORIZED DOOR		
CU	CONDENSING UNIT	FVNR	FULL VOLTAGE NON-REVERSING	MS	MOTORIZED SHADES		
				MW	MICROWAVE		
D	DEDICATED (POWER & SIGNAL) /DIMMING (LIGHTING)						
DP	DIMMING PANEL						

(R)	EXISTING TO BE RELOCATED	UG	UNDER GROUND
RAC	RIGID ALUMINUM CONDUIT	UON	UNLESS OTHERWISE NOTED
RS	RIGID STEEL		
RSC	RIGID STEEL CONDUIT	VFD	VARIABLE FREQUENCY DRIVE
		VP	VIDEO PROJECTOR
SCC	SECURITY CONTROL CENTER	VSD	VARIABLE SPEED DRIVE
SDR	STUDIO DIMMER RACK		
SEP	SEWAGE EJECTOR PUMP	WP	WEATHERPROOF
SP	SUMP PUMP	WT	WATER TIGHT
ST	STANDBY		
		(X)	EXISTING TO BE REMOVED
TB	TELEPHONE BOARD	XFMR	TRANSFORMER
TBA	TO BE ADVISED	XP	EXPLOSION PROOF
TBC	TO BE CONFIRMED		
TEL	TELECOM		
TF	TRANSFER FAN		
TP	TRANSFER PANEL		
TYP	TYPICAL		

CONVENTIONS

1	KEY NOTES: REFER TO NOTES ON SAME SHEET AS REFERENCE
GN1	GENERAL NOTE. REFER TO NOTES ON THIS SHEET
EF 1 P130D	EQUIPMENT IDENTIFICATION TAG CABLE AND/OR RACEWAY TAG P = POWER T = TELEPHONE SEE WIRING SCHEDULE
A E-3	DETAIL REFERENCE: DETAIL DESIGNATION SHEET NUMBER REFERENCE
F1 2-40	LIGHTING FIXTURE IDENTIFICATION TAG: FIXTURE TYPE QUANTITY AND WATTAGE OF LAMP(S)

Date Plotted: 9/15/2017 11:42 AM

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200 Napa Street
Sausalito, CA 94965

Owner:
City of Sausalito
420 Litho St.
Sausalito, CA 94965

RHAA PROJECT NUMBER

16042A

CONSULTANT

engineering350
engineering 350 llc
256 moulton street
san francisco, ca 94123
T:415-328-1450
www.engineering350.com

SUBMITTAL

Permit Submittal

DATE

21 August 2017

REVISIONS

No.	Date	Description
1	9-18-2017	Permit Plan Check Response

REGISTRATION AND SIGNATURE

REGISTERED PROFESSIONAL ENGINEER
DANIEL CASTRO
E21018
ELECTRICAL
STATE OF CALIFORNIA

SCALE NONE
1" = 30'-0"
0 15' 30' 60'
N

SHEET TITLE

ELECTRICAL LEGEND AND NOTES

DRAWN BY: KZ CHECKED BY:

E0.1

DUNPHY PARK IMPROVEMENTS VOLTAGE DROP CALCULATION							
FEEDER	MAX. CURRENT (A)	SUPPLYING BREAKER RATING (A)	FEEDER SIZE (AWG/KCM)	LENGTH (FT) FROM MAIN SWITCHBOARD (approx)	IMPEDANCE (Z) (OHMS/KFT)	VOLTAGE DROP (V)	% VD (MAX. 3%)
PNL. MAIN	60	100	# 1	10	0.1641	0.20	0.08
PNL. R	10	50	# 6	360	0.4632	3.34	1.39

1

4 VOLTAGE DROP CALCULATION

SCALE: NONE

LIGHTING FIXTURE SCHEDULE											
TYPE	DESCRIPTION	MANUFACTURER	MODEL	LAMP(S)	DRIVER	DIMMING TYPE	VOLTS (V)	WATTS (W)	EFFICACY (LPW)	MOUNTING TYPE	LOCATION
F1	POLE LIGHTING, FLARED EDGE, BASE FIXTURE, FLAT GLASS LENS, 4500K, 6665 LUMENS, COORDINATE COLOR WITH ARCHITECT. SINGLE ARM MOUNTING CONFIGURATION. ELECTRONIC BUTTON PHOTOCONTROL	STERNBERG LIGHTING	1A-1970LED-F-BG-4ARC-45-T3R-MDL03-FG-PEC	LED	LED DRIVER	0-10	120	65 W each	102.6	POLE SINGLE ARM	TYPICAL
F2	POLE LIGHTING, FLARED EDGE, BASE FIXTURE, FLAT GLASS LENS, 4500K, 6665 LUMENS, COORDINATE COLOR WITH ARCHITECT. DOUBLE ARM MOUNTING CONFIGURATION. ELECTRONIC BUTTON PHOTOCONTROL	STERNBERG LIGHTING	2A-1970LED-F-BG-4ARC-45-T3R-MDL03-FG-PEC	LED	LED DRIVER	0-10	120	65 W each	102.6	POLE DOUBLE ARM	TYPICAL

LIGHTING GENERAL NOTES:

1. ALL LIGHTING FIXTURES SHALL BE SUPPLIED WITH THE MOUNTING ACCESSORIES, TRIMS AND/OR SHROUDS NECESSARY TO PROPERLY AND COMPLETELY INSTALL THE FIXTURES. CONTRACTOR SHALL VERIFY WITH ARCHITECT THE COLOR AND FINISH OF FIXTURES TO THE CLOSEST STANDARD COLOR AND FINISH BEFORE ORDERING.
2. COORDINATE LIGHTING CONTROLS AND PROVIDE AS REQUIRED BY MANUFACTURER TO ACHIEVE A COMPLETE WORKING SYSTEM.

3 LIGHTING FIXTURE SCHEDULE

SCALE: NONE

WIRING SCHEDULE - COPPER CONDUCTORS (0-600V)								
CIRCUIT RATING	CONDUIT SIZE (INCHES)						CONDUCTOR SIZE	
	G	N	NG	NGI	NNG	NNGI	PHASE/ NEUTRAL	GND/* IG
15	0.75	0.75	0.75	0.75	0.75	0.75	12	12
20	0.75	0.75	0.75	0.75	0.75	0.75	12	12
30	0.75	0.75	0.75	0.75	0.75	0.75	10	10
40	0.75	0.75	1	1	1	1	8	10
50	1	1	1.25	1.25	1.25	1.25	6	10
60	1.25	1.25	1.25	1.5	1.5	1.5	4	10
70	1.25	1.25	1.25	1.5	1.5	1.5	4	8
80	1.25	1.25	1.5	2	2	2	2	8
90	1.25	1.25	1.5	2	2	2	2	8
100	1.5	1.5	2	2	2	2.5	1	8
110	1.5	1.5	2	2	2	2.5	1	6
125	1.5	1.5	2	2	2	2.5	1	6
150	2	2	2	2.5	2.5	2.5	1/0	6
175	2	2	2	2.5	2.5	2.5	2/0	6
200	2	2	2.5	2.5	2.5	3	3/0	6
225	2.5	2.5	2.5	3	3	3	4/0	4
250	2.5	2.5	3	3	3	3.5	250	4
300	3	3	3.5	3.5	3.5	4	350	4
350	3.5	3.5	4	4	4	5	500	2
400	2@2	2@2	2@2.5	2@2.5	2@2.5	2@3	3/0	2
450	2@2.5	2@2.5	2@2.5	2@3	2@3	2@3	4/0	2
500	2@2.5	2@2.5	2@3	2@3	2@3	2@3.5	250	1
600	2@3	2@3	2@3.5	2@3.5	2@3.5	2@4	350	1
700	2@3.5	2@3.5	2@4	2@4	2@4	2@5	500	1/0
800	3@3	3@3	3@3	3@3.5	3@3.5	3@3.5	300	1/0
1000	3@3	3@3	3@3.5	3@4	3@4	3@4	400	2/0
1200	4@3	4@3	4@3.5	4@3.5	4@3.5	4@4	350	3/0
1600	5@3	5@3	5@3.5	5@4	5@4	5@4	400	4/0
2000	6@3.5	6@3.5	6@4	6@4	6@4	6@5	500	250
2500	7@3.5	7@3.5	7@4	7@4	7@4	7@4	500	350
3000	8@3.5	8@3.5	8@4	8@4	8@4	8@4	500	400

SUBSCRIPT KEY	
SUBSCRIPT	CONDUCTORS PER CONDUIT
G	PHASE CONDUCTORS, 1 GROUNDING CONDUCTOR
N	PHASE CONDUCTORS, 1 NEUTRAL CONDUCTOR, CONDUIT GROUND
NG	PHASE CONDUCTORS, 1 NEUTRAL CONDUCTOR, 1 GROUNDING CONDUCTOR
NGI	PHASE CONDUCTORS, 1 NEUTRAL CONDUCTOR, 1 GROUNDING CONDUCTOR, 1 ISOLATED GROUNDING CONDUCTOR
NNG	PHASE CONDUCTORS, 2 NEUTRAL CONDUCTORS*, 1 GROUNDING CONDUCTOR
NNGI	PHASE CONDUCTORS, 2 NEUTRAL CONDUCTORS*, 1 GROUNDING CONDUCTOR, 1 ISOLATED GROUNDING CONDUCTOR

2 WIRING SCHEDULE

SCALE: NONE

LIGHTING SEQUENCE OF OPERATION								
ROOM TYPE / FUNCTION	OCCUPANCY SENSOR-AUTO ON	OCCUPANCY SENSOR-MANUAL OFF	OCCUPANCY SENSOR-AUTO OFF	OCCUPANCY SENSOR- PARTIAL ON/OFF	MANUAL ON/OFF SWITCH	DAYLIGHT SENSOR + AUTO DIMMING	MANUAL DIMMING	TIME CLOCK
RESTROOMS	•	•	•		•			
UTILITY ROOM					•			
EXTERIOR LIGHTING ATTACHED TO RESTROOM BUILDING					•	•		•
EXTERIOR LIGHTING - PARKING LOT LIGHTING FIXTURES						•		•
EXTERIOR LIGHTING - BOCCE COURT LIGHTING FIXTURES					•	•		•

5 LIGHTING SEQUENCE OF OPERATION

SCALE: NONE

NAME: R (ADD/ALT)*			VOLTAGE: 120/240			BUS SIZE: 50A				MIN. AIC:		
MOUNT: SURFACE			PHASE/WIRE: 1PH 3W			MAIN: 50A				SERVED FROM: MAIN		
CKT NO.	BKR/ POLE	DESCRIPTION	ΦA	ΦB	R	L/C	M	N	K	DESCRIPTION	BKR/ POLE	CKT NO.
1	20/1	RESTROOM LIGHTS	100 360		360	100				RESTROOM GFCI REC	20/1	2
3	20/1	RESTROOM EXT LIGHTS		120 360	360	120				RESTROOM GFCI REC	20/1	4
5	20/1	DOOR LOCK	100 400			100	400			RESTROOM EF	20/1	6
7	20/1	SPARE		0 400			400			RESTROOM EF	20/1	8
9	20/1	SPARE	0 0							SPARE	20/1	10
11		SPACE		0 0						SPACE		12
CONNECTED LOAD SUBTOTALS			960	880	720	320	800	0	0			
CONNECTED LOAD (KVA)			1.8									
CONNECTED LOAD (AMPS):			7.67							65% OF CONNECTED	0.0	KVA
DEMAND LOAD (AMPS):			9.25							100% OF CONNECTED	0.0	KVA
			1							CONNECTED + 25% LARGEST	1.1	KVA
*= PROVIDED BY OTHERS										125% OF CONNECTED	0.4	KVA
LOADS ESTIMATED										FIRST 10KVA + 50% REMAINDER	0.72	KVA
										TOTAL CALCULATED DEMAND LOAD PER NEC	2.2	KVA

NAME: MAIN			VOLTAGE: 120/240			BUS SIZE: 100A				MIN. AIC:		
MOUNT: EXTERIOR			PHASE/WIRE: 1PH 3W			MAIN: 100A				SERVED FROM: PG&E TX		
CKT NO.	BKR/ POLE	DESCRIPTION	ΦA	ΦB	R	L/C	M	N	K	DESCRIPTION	BKR/ POLE	CKT NO.
1	20/1	PARKING LIGHTS	650 4800		4800	650				GAZEBO SPIDER BOX	50/2	2 4
3	20/1	BOCCE LIGHTS		520 4800	4800	520						
5	20/1	IRRIGATION CTRL	50 180		180	50				GAZEBO REC	20/1	6
7	50/2	PNL. R (RESTROOM ADD/ALT)		880 180	720 180	320	800	0	0	GAZEBO REC	20/1	8
9			960 360		360					PICNIC REC	20/1	10
11	20/1	SPARE		0 180	180					BOCCE REC	20/1	12
13	20/1	SPARE	0 0							SPARE	20/1	14
15	20/1	SPARE		0 0						SPARE	20/1	16
17		SPACE	0 0							SPACE		18
19		SPACE		0 0						SPACE		20
CONNECTED LOAD SUBTOTALS			7000	6560	11220	1540	800	0	0			
CONNECTED LOAD (KVA)			13.6									
CONNECTED LOAD (AMPS):			56.50							65% OF CONNECTED	0.0	KVA
DEMAND LOAD (AMPS):			58.06							100% OF CONNECTED	0.0	KVA
			1							CONNECTED + 25% LARGEST	1.4	KVA
										125% OF CONNECTED	1.9	KVA
										FIRST 10KVA + 50% REMAINDER	10.61	KVA
										TOTAL CALCULATED DEMAND LOAD PER NEC	13.9	KVA

1 PANELBOARD SCHEDULES

SCALE: NONE

Date Plotted: 9/15/2017 11:42 AM

rhaa
LANDSCAPE ARCHITECTURE + PLANNING
225 Miller Avenue, Mill Valley, CA 94941
T 415 383 7900 F 415 383 1433 www.rhaa.com

PROJECT/CLIENT NAME

Dunphy Park Improvement Project

200 Napa Street
Sausalito, CA 94965

Owner:
City of Sausalito
420 Litho St.
Sausalito, CA 94965

RHAA PROJECT NUMBER

16042A

CONSULTANT

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No.	Date	Description
1	9-18-2017	Permit Plan Check Response

REGISTRATION AND SIGNATURE

SCALE NONE
1" = 30'-0"
0 15' 30' 60'
N

SHEET TITLE

ELECTRICAL SCHEDULES

DRAWN BY: KZ CHECKED BY:

E0.2

STATE OF CALIFORNIA
Electrical Power Distribution
CEC-NRCC-ELC-01-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	(Page 1 of 6)
Project Name: DUNPHY PARK IMPROVEMENTS	Date Prepared: 8/15/2017

General Information

Project Address: 200 NAPA STREET. SAUSALITO, CA 94965		Climate Zone: CZ3	Conditioned Floor Area:
			Unconditioned Floor Area:
Building Type:	☒ Nonresidential ☐ Schools	☐ High-Rise Residential ☐ Relocatable Public Schools	☐ Hotel/Motel
Phase of Construction:	☐ New Construction	☐ Addition	☒ Alteration

In the table below identify all applicable construction documents that specify the requirements for the scope of responsibility reported by this certificate. Use additional pages as needed to list all construction documents related to compliance of Section 130.5.

Document Number	Document Title / Descriptions (include description information for Table or Schedule if it contains compliance information)	Document Sheet # or Page #	Indicate which subsection of Section 130.5 is related to the document (e.g. 130.5(a) for service electrical metering)
ELECTRICAL DRAWINGS SET	ELECTRICAL CALCS & SCHEDULES	E0.2	130.5(c)

STATE OF CALIFORNIA
Electrical Power Distribution
CEC-NRCC-ELC-01-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	(Page 2 of 6)
Project Name: DUNPHY PARK IMPROVEMENTS	Date Prepared: 8/15/2017

Document Number	Document Title / Descriptions (include description information for Table or Schedule if it contains compliance information)	Document Sheet # or Page #	Applicable subsection of Section 130.5

STATE OF CALIFORNIA
Electrical Power Distribution
CEC-NRCC-ELC-01-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	(Page 3 of 6)
Project Name: DUNPHY PARK IMPROVEMENTS	Date Prepared: 8/15/2017

A. Service Electrical Metering

Check one of the three boxes below if the electrical power distribution system is in compliance with Section 130.5(a).
- ☐ For newly installed electrical service in newly constructed buildings, Service Electrical Metering is required according to Section 130.5(a). *Fill out Column 1 thru 6 of table below.*
- ☐ For new or replacement electrical service equipment in existing buildings, Service Electrical Metering is required according to Section 141.0(b)2Pi. *Fill out Column 1 thru 6 of table below.*
- ☒ EXCEPTION to Electrical Service Metering: Service or feeder for which the utility company provides a metering system that indicates instantaneous kW demand and kWh for a utility-defined period. *Fill out Column 1, 2 and 6 of table below with the compliance information.*

Fill out a separate line for each electrical service that is connected to the building. If additional table space is needed for electrical service information, submit additional page with the information.

Electrical Service Schedule	Electrical Service Rating	Metering Capabilities (check all that are present)				Exception to 130.5(a)	Field Inspector
01	02	03	04	05	06	07	08
Electrical Service Designation/Location/Description	kVA	Instantaneous (at the time) kW	Historical peak (kW)	Tracking kWh for a user-defined period	kWh per rate period	Utility metering system	Check that the metering complies
PNL. MAIN / EXTERIOR	12.1 kVA	☒	☐	☒	☐	☒	☐
		☐	☐	☐	☐	☐	☐

STATE OF CALIFORNIA
Electrical Power Distribution
CEC-NRCC-ELC-01-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	(Page 4 of 6)
Project Name: DUNPHY PARK IMPROVEMENTS	Date Prepared: 8/15/2017

B. Separation of Electrical Circuits for Electrical Energy Monitoring

Check all boxes below if the electrical power distribution system is in compliance with Section 130.5(b).
- ☒ The electrical power distribution system meets the separation of electrical circuits for electrical energy monitoring requirement of Section 130.5(b). The electrical power distribution systems is designed so that measurement devices can monitor the electrical energy usage of load types according to TABLE 130.5-B.
- ☒ Describe the electrical power distribution system installed and the compliance method chosen in meeting the requirement of Section 130.5(b). Use the space below to include the information. Examples of compliance methods are detailed in Nonresidential Compliance Manual Chapter 8.

Fill out Column 1 thru 3 with the compliance information.

General information	Electrical Power Distribution System information and Method of compliance	Electrical Service Rating	Enforcement Agency
01	02	03	04
Electrical Service Designation/Location/Description	Describe the electrical power distribution system installed and the compliance method used.	kVA	Check that the system complies
PNL. MAIN	PROPOSED DESIGN MEETS THE SEPARATION OF ELECTRICAL CIRCUIT REQUIREMENT OF SECTION 130.5(B), FOR SERVICES RATED 50 kVA OR LESS NO SEPARATION OF THE ELECTRICAL LOAD IS REQUIRED.	12.1 kVA	☐

Field Inspector Notes:

STATE OF CALIFORNIA
Electrical Power Distribution
CEC-NRCC-ELC-01-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	(Page 5 of 6)
Project Name: DUNPHY PARK IMPROVEMENTS	Date Prepared: 8/15/2017

C. Voltage Drop

Check all boxes below if the electrical power distribution system is in compliance with Section 130.5(c).

	Enforcement Agency Check that the system complies
☒ The electrical power distribution system meets the voltage drop requirement of Section 130.5(c). The maximum combined voltage drop on feeder conductors and branch circuit conductors to the farthest connected load or outlet, do not exceed 5%.	☐
☒ Voltage drop calculation documents showing compliance to Section 130.5(c) are submitted as part of the compliance document submittal.	☐

D. Circuit Controls for 120-Volt Receptacles and Controlled Receptacles

Check one or more boxes below for applicable requirements of Section 130.5(d) for the electrical power distribution system.

	Field Inspector Check that the system complies
☐ The control is capable of automatically shutting OFF the controlled receptacles when the space is typically unoccupied, either at the receptacle or circuit level. For the automatic time switch control, it incorporates an override control that allows the controlled receptacle to remain ON for no more than 2 hours when an override is initiated and an automatic holiday "shut-OFF" feature that turns OFF all loads for at least 24 hours and then resumes the normally scheduled operation. Countdown timer switches are not be used to comply with the automatic time switch control requirements. The controls meet the requirement of Section 130.5(d)1.	☐
☐ There is at least one controlled receptacle within 6 ft from each uncontrolled receptacle. Where receptacles are installed in modular furniture in open office area, at least one controlled receptacle is installed at each workstation. The receptacles meet the requirement of Section 130.5(d)2.	☐
☐ There are installed split wired receptacles with at least one controlled and one uncontrolled receptacle. Where receptacles are installed in modular furniture in open office area, at least one controlled receptacle is installed at each workstation. The receptacles meet the requirement of Section 130.5(d)2.	☐
☐ Permanent and durable marking for controlled receptacles or circuits to differentiate them from uncontrolled receptacles or circuits is provided. The markings meet the requirement of Section 130.5(d)3.	☐
☐ For hotel and motel guest rooms, there are controlled receptacles for at least one-half of the 120-volt receptacles in each guest room. Electric circuits serving controlled receptacles in guestrooms are installed to have captive key controls, occupancy sensing controls, or automatic controls so the power is switched off no longer than 30 minutes after the guest room has been vacated. The receptacles meet the requirement of Section 130.5(d)4.	☐
☐ Receptacles that are only for the following purposes are excepted from Section 130.5(d): -Receptacles specifically for refrigerators and water dispensers in kitchen areas. -Receptacles located a minimum of six ft above the floor that are specifically for clocks. -Receptacles for network copiers, fax machines, A/V and data equipment other than personal computers in copy rooms. -Receptacles on circuits rated more than 20 amperes. -Receptacles connected to an uninterruptible power supply (UPS) that are intended to be in continuous use, 24 hours per day/365 days per year, and are marked to differentiate them from other uncontrolled receptacles or circuits.	☐

STATE OF CALIFORNIA
Electrical Power Distribution
CEC-NRCC-ELC-01-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	(Page 6 of 6)
Project Name: DUNPHY PARK IMPROVEMENTS	Date Prepared: 8/15/2017

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: MARIA NAZAR NAIM	Documentation Author Signature:
Company: ENGINEERING 350 LLC	Signature Date: 8/15/2017
Address: 256 MOULTON STREET	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: SAN FRANCISCO, CA 94123	Phone: 415-354-0006

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: DANIEL CASTRO	Responsible Designer Signature:
Company: ENGINEERING 350 LLC	Date Signed: 8/15/2017
Address: 256 MOULTON STREET	License:
City/State/Zip: SAN FRANCISCO, CA 94123	Phone: 415-354-0006

rhaa
LANDSCAPE ARCHITECTURE + PLANNING
225 Miller Avenue, Mill Valley, CA 94941
T 415 383 7900 F 415 383 1433 www.rhaa.com

PROJECT/CLIENT NAME

Dunphy Park Improvement Project

200 Napa Street
Sausalito, CA 94965

Owner:
City of Sausalito
420 Litho St.
Sausalito, CA 94965

RHAA PROJECT NUMBER

16042A

CONSULTANT

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256 moulton street
san francisco, ca 94123
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SUBMITTAL

Permit Submittal

DATE

21 August 2017

REVISIONS

No.	Date	Description
1	9-18-2017	Permit Plan Check Response

REGISTRATION AND SIGNATURE

REGISTERED PROFESSIONAL ENGINEER — DANIEL CASTRO — E20166 — ELECTRICAL — STATE OF CALIFORNIA

SCALE NONE
1" = 30'-0"
0 15' 30' 60'
N

SHEET TITLE

TITLE 24 COMPLIANCE

DRAWN BY: KZ **CHECKED BY:**

E0.3

Date Plotted: 9/15/2017 11:43 AM

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 1 of 4)
Project Name: DUNPHY PARK IMPROVEMENTS	Date Prepared: 8/15/2017

A. General Information

Project Address: 200 NAPA STREET. SAUSALITO, CA 94965	Total Illuminated Hardscape Area: 61,522.5 sq ft
Phase of Construction: ☐ New Construction ☐ Addition ☑ Alteration	
Outdoor Lighting Zone (LZ) ☐ LZ-1 ☐ LZ-2 ☑ LZ-3 ☐ LZ-4	
I have confirmed with the AHJ which LZ applies to this site. For default lighting zone designations, see Title 24 Part 6, §10-114	

B. Lighting Compliance Documents (check box for each document included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.

☑	NRCC-LTO-01-E	Certificate of Compliance
☑	NRCC-LTO-02-E	Outdoor Lighting Controls Certificate of Compliance
☑	NRCC-LTO-03-E	Outdoor Lighting Power Allowance Certificate of Compliance
☐	NRCC-LTO-04-E	Outdoor Lighting Existing Conditions Certificate of Compliance

C. Summary of Allowed Outdoor Lighting Power

		Watts
01	**Sum Total ALLOWED** Outdoor Lighting Wattage from NRCC-LTO-03-E, page 1 Alterations with NO increase of connected lighting load may instead use the allowed wattage from NRCC-LTO-04, page 2.	3530.05
	Complies ONLY if **Installed** (Box 02) ≤ **Allowed** (Box 01)	
02	**Sum Total INSTALLED** Outdoor Lighting Wattage from NRCC-LTO-01-E, page 3.	1170

D. Declaration of Required Installation Certificates

Declare by checking all Installation Certificates that will be submitted. (Retain copies and verify compliance documents are completed and signed.)

☑ NRCI-LTO-01-E - Must be submitted for all buildings	☑ Field Inspector
☐ NRCI-LTO-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐ Field Inspector

E. Declaration of Required Certificates of Acceptance

Declare by checking all of the Certificates of Acceptance that will be submitted. (Retain copies and verify compliance documents are completed and signed.)

☑ NRCA-LTO-02-A - Must be submitted for outdoor lighting controls.	☑ Field Inspector

F. Schedule of Luminaires Exempt from the Outdoor Lighting Power Requirements in §140.7

01	02
Name or Symbol	Description of exempt luminaire in accordance with the exemptions

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 2 of 4)
Project Name: DUNPHY PARK IMPROVEMENTS	Date Prepared: 8/15/2017

G. Schedule of Luminaires Exempt from the Cutoff Requirements in §130.2(b)

01	02
Name or Symbol	Description of exempt luminaire in accordance with the exemptions
F1	OUTDOOR LUMINAIRE RATED FOR USE WITH LAMPS LESS THAN 150 W.
F2	OUTDOOR LUMINAIRE RATED FOR USE WITH LAMPS LESS THAN 150 W.

H. Schedule of Luminaires Exempt from the Outdoor Lighting Control Requirements in §130.2(c)

01	02
Name or Symbol	Description of exempt luminaire in accordance with the exemptions

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 3 of 4)
Project Name: DUNPHY PARK IMPROVEMENTS	Date Prepared: 8/15/2017

I. Outdoor Lighting Schedule and Field Inspection Energy Checklist

Luminaire Schedule		Installed Watts					Location	Cutoff	Field Inspector	
			How wattage was determined							
01	02	03	04		05	06	07	08	09	
Name or Item Tag	Complete Luminaire Description	Watts per Luminaire	CEC Default from MAT	According to §130.0(c)	Number of Luminaires	Total Installed Watts in this area (03 x 05)	Primary Function area in which these luminaires are installed (Outdoor Lighting Zone)	BUG Rating	Pass	Fail
F1	POLE LIGHTING, FLARED EDGE, BASE FIXTURE, FLAT GLASS LENS, 4500K, 6665 LUMENS. SINGLE ARM MOUNTING CONFIGURATION.	65	☐	☑	6	390	SITE LIGHTING	UH: UL: FVH: BVH: FH: BH:	○	○
F2	POLE LIGHTING, FLARED EDGE, BASE FIXTURE, FLAT GLASS LENS, 4500K, 6665 LUMENS. DOUBLE ARM MOUNTING CONFIGURATION.	130	☐	☑	6	780	SITE LIGHTING	UH: UL: FVH: BVH: FH: BH:	○	○
			☐	☐		0		UH: UL: FVH: BVH: FH: BH:	○	○
					INSTALLED WATTS PAGE TOTAL:	1170	Enter sum total of all pages (**Sum Total INSTALLED** Outdoor lighting wattage) into NRCC-LTO-01-E; Page 1		1170	

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 4 of 4)
Project Name: DUNPHY PARK IMPROVEMENTS	Date Prepared: 8/15/2017

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: MARIA NAZAR NAIM	Documentation Author Signature:
Company: ENGINEERING 350 LLC	Signature Date: 8/15/2017
Address: 256 MOULTON ST	CEA Certification Identification (if applicable):
City/State/Zip: SAN FRANCISCO, CA 94123	Phone: 415-354-0006

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: DANIEL CASTRO	Responsible Designer Signature:
Company: ENGINEERING 350 LLC	Date Signed: 8/15/2017
Address: 256 MOULTON ST	License: E21019
City/State/Zip: SAN FRANCISCO, CA 94123	Phone: 415-354-0006

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
CEC-NRCC-LTO-02-E (Revised 08/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-02-E
Outdoor Lighting Controls	(Page 1 of 3)
Project Name: DUNPHY PARK IMPROVEMENTS	Date Prepared: 8/15/2017

A. Mandatory Outdoor Lighting Control Declaration Statements

Check all that apply:
- ☑ Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with §110.9(a).
- ☑ Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with §130.4(b).
- ☑ All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with §130.0(d).
- ☐ Part-Night Outdoor Lighting Controls, as defined in Section 100.1(b), shall meet the requirements in Section 110.9(b)5.
- ☐ All outdoor incandescent luminaires rated over 100 watts, determined in accordance with Section 130.0(c), shall be controlled by a motion sensor.
- ☐ All outdoor luminaires rated for use with lamps greater than 150 lamp watts, determined in accordance with Section 130.0(c), shall comply with Uplight and Glare requirements in accordance with Section 130.2(b)
- ☑ All installed outdoor lighting shall be controlled by a photocontrol or outdoor astronomical time-switch control, or other control capable of automatically switching OFF in accordance with Section 130.2(c)1.
- ☑ All installed outdoor lighting shall be circuited and independently controlled from other electrical loads by an automatic scheduling control in accordance with Section 130.2(c)2.
- ☑ All installed outdoor lighting, where the bottom of the luminaire is mounted 24 feet or less above the ground, shall be controlled with automatic lighting controls in accordance with Section 130.2(c)3.
- ☐ For Outdoor Sales Frontage, an automatic lighting control shall be installed in accordance with Section 130.2(c)4.
- ☐ For Building Facade, Ornamental Hardscape and Outdoor Dining lighting, an automatic lighting control shall be installed in accordance with Section 130.2(c)5
- ☑ Before an occupancy permit is granted for the newly constructed building or for the addition, or for any altered outdoor lighting controls, shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with §130.4.(a). Outdoor lighting controls shall comply with the applicable requirements of Section 130.2(c) and Reference Nonresidential Appendix NA7.8.

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
CEC-NRCC-LTO-02-E (Revised 08/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-02-E
Outdoor Lighting Controls	(Page 2 of 3)
Project Name: DUNPHY PARK IMPROVEMENTS	Date Prepared: 8/15/2017

B. Mandatory Outdoor Lighting Control Schedule and Field Inspection Checklist

Outdoor Lighting Control Schedule		Standards Complying With (✓ all that apply, or leave empty if Exempted)							✓ If Acceptance Test Required	Field Inspector	
01	02	03	04	05	06	07	08	09	10	11	
Location and Application of Luminaires Being Controlled	Type/ Description of Lighting Control (i.e. outdoor motion sensor, outdoor photocontrol, outdoor astronomical time-switch control, automatic scheduling control, part-night outdoor lighting control)	# of Units	§130.2(a)	§130.2(c)1	§130.2(c)2	§130.2(c)3	§130.2(c)4	§130.2(c)5		Pass	Fail
SITE LIGHTING	OUTDOOR PHOTOCONTROL, TIME CONTROL	1		◆	◆	◆			☑	○	○
									☐	○	○
									☐	○	○
									☐	○	○
									☐	○	○
									☐	○	○
									☐	○	○
									☐	○	○
									☐	○	○
									☐	○	○
									☐	○	○
									☐	○	○
									☐	○	○
									☐	○	○
									☐	○	○
									☐	○	○

Date Plotted: 9/15/2017 11:43 AM

rhaa
LANDSCAPE ARCHITECTURE + PLANNING
225 Miller Avenue, Mill Valley, CA 94941
T 415 383 7900 F 415 383 1433 www.rhaa.com

PROJECT/CLIENT NAME

Dunphy Park Improvement Project

200 Napa Street
Sausalito, CA 94965

Owner:
City of Sausalito
420 Litho St.
Sausalito, CA 94965

RHAA PROJECT NUMBER

16042A

CONSULTANT

engineering350
engineering 350 llc
256 moulton street
san francisco, ca 94123
T:415-328-1450
www.engineering350.com

SUBMITTAL

Permit Submittal

DATE

21 August 2017

REVISIONS

No.	Date	Description
1	9-18-2017	Permit Plan Check Response

REGISTRATION AND SIGNATURE

REGISTERED PROFESSIONAL ENGINEER
DANIEL CASTRO
E21019
ELECTRICAL
STATE OF CALIFORNIA

SCALE NONE
1" = 30'-0"
0 15' 30' 60'
N

SHEET TITLE

TITLE 24
COMPLIANCE

DRAWN BY: KZ **CHECKED BY:**

E0.4

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
CEC-NRCC-LTO-02-E (Revised 08/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-02-E
Outdoor Lighting Controls	(Page 3 of 3)
Project Name: DUNPHY PARK IMPROVEMENTS	Date Prepared: 8/15/2017

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: MARIA NAZAR NAIM	Documentation Author Signature:
Company: ENGINEERING 350 LLC	Signature Date: 8/15/2017
Address: 256 MOULTON ST	CEA Certification Identification (if applicable):
City/State/Zip: SAN FRANCISCO, CA 94123	Phone: 415-354-0006

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: DANIEL CASTRO	Responsible Designer Signature:
Company: ENGINEERING 350 LLC	Date Signed: 8/15/2017
Address: 256 MOULTON ST	License: E21019
City/State/Zip: SAN FRANCISCO, CA 94123	Phone: 415-354-0006

STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
CEC-NRCC-LTO-03-E (Revised 01/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-03-E
Outdoor Lighting Power Allowances	(Page 1 of 4)
Project Name: DUNPHY PARK IMPROVEMENTS	Date Prepared: 8/15/2017

A. OUTDOOR LIGHTING POWER ALLOWANCE SUMMARY

1. General Hardscape Lighting Power Allowance (Site Total from Section B of NRCC-LTO-03-E)							1.	3530.05	
2. Additional Specific "use it or lose it" Lighting Power Allowances listed in each of these cells shall be identical to total allowed watts determined in Section C-1 to C-4 of NRCC-LTO-03-E.									
PER APPLICATION from Section C-1		PER UNIT LENGTH (SALES FRONTAGE) from Section C-2		PER HARDSCAPE AREA (ORNAMENTAL LIGHTING) from Section C-3		PER SPECIFIC AREA from Section C-4.			
0	+	0	+	0	+	0	=	2.	0
3. **Sum Total ALLOWED** Outdoor Lighting Wattage (add rows 1 and 2)								3.	3530.05

B. GENERAL HARDSCAPE LIGHTING POWER ALLOWANCE FROM TABLE 140.7-A

Area Wattage Allowance (AWA)				Linear Wattage Allowance (LWA)			Initial Wattage Allowance (IWA)	Total General Hardscape Lighting Allowance
01	02	03	04	05	06	07	08	09
Name of Area	Illuminated Hardscape Area	AWA Per Square Foot	AWA (B02 x B03)	Perimeter Length of General Hardscape	LPA per Linear Foot	LWA (B05 x B06)	IWA (Watts)	B04 + B07 + B08
SITE LIGHTING	61522.5	0.040	2460.9	1569	0.35	549.15	520	3530.05
			0			0		0
			0			0		0
			0			0		0
			0			0		0
			0			0		0
			0			0		0
			0			0		0
			0			0		0
			0			0		0
			0			0		0
			0			0		0
			0			0		0
			0			0		0
			0			0		0
			0			0		0
			0			0		0
TOTAL								3530.05

STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
CEC-NRCC-LTO-03-E (Revised 01/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-03-E
Outdoor Lighting Power Allowances	(Page 2 of 4)
Project Name: DUNPHY PARK IMPROVEMENTS	Date Prepared: 8/15/2017

C. ADDITIONAL "USE IT OR LOSE IT" OUTDOOR LIGHTING POWER ALLOWANCES FOR SPECIFIC APPLICATIONS

☐ The additional specific outdoor lighting power allowance shall be the smaller of the allowed lighting power or the actual lighting power used.
☐ Use Outdoor Lighting Zone (OLZ) that is documented on page 1 of NRCC-LTO-01-E to calculate the specific wattage allowances.

C-1. WATTAGE ALLOWANCE PER APPLICATION – Table 140.7-B

☐ Available only for qualifying locations, which include Building Entrances or Exits; Primary Entrances to Senior Care Facilities, Police Stations, Hospitals, Fire Stations, and Emergency Vehicle Facilities; Drive Up Windows; Vehicle Service Station Uncovered Fuel Dispenser, ATM Machine Lighting
☐ If more than one luminaire type is used per location, use multiple rows for that location

01	02	03	04	05	06	07	08	09	10
	ALLOTTED WATTS			DESIGN WATTS					
Name of Location for Which Allowance is Claimed	Number of Qualifying Locations	Wattage Allowance per Qualifying Location	Allotted Watts (02 x 03)	Luminaire Code or Symbol	Luminaire Description	Luminaire Quantity	Watts per Luminaire	Design Watts (07 x 08)	Allowed Watts (smaller of 04 or 09)
			0					0	
			0					0	
			0					0	
			0					0	
							Sum total allowance per application on this site:		0

C-2. WATTAGE ALLOWANCE PER UNIT LENGTH (Sales Frontage) from Table 140.7-B

☐ If more than one luminaire type is used per location, use multiple rows for that location

01	02	03	04	05	06	07	08	09	10
	ALLOTTED WATTS			DESIGN WATTS					
Name of Location for Which Allowance is Claimed	Linear Feet of Sales Frontage	Wattage Allowance per Linear Foot	Allotted Watts (02 x 03)	Luminaire Code or Symbol	Luminaire Description	Luminaire Quantity	Watts per Luminaire	Design Watts (07 x 08)	Allowed Watts (smaller of 04 or 09)
			0					0	
			0					0	
			0					0	
			0					0	
							Sum total allowance for sales frontage on the site:		0

STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
CEC-NRCC-LTO-03-E (Revised 01/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-03-E
Outdoor Lighting Power Allowances	(Page 3 of 4)
Project Name: DUNPHY PARK IMPROVEMENTS	Date Prepared: 8/15/2017

C-3. WATTAGE ALLOWANCE PER SQUARE FOOT OF HARDSCAPE AREA (Ornamental Lighting) – Table 140.7-B

- Allowance for the total site illuminated hardscape area. Luminaires qualifying for this allowance shall be rated for 100 watts or less as determined in accordance with Section 130.0(c), and shall be post-top luminaires, lanterns, pendant luminaires, or chandeliers.
- If more than one luminaire type is used per location, use multiple rows for that location

01	02	03	04	05	06	07	08	09	10
	ALLOTTED WATTS			DESIGN WATTS					
Name of area for which ornamental allowance is claimed	Square Feet of Hardscape	Wattage Allowance per Square Foot	Allotted Watts (02 x 03)	Luminaire Code or Symbol	Luminaire Description	Luminaire Quantity	Watts per Luminaire	Design Watts (07 x 08)	Allowed Watts (smaller of 04 or 09)
			0					0	
			0					0	
			0					0	
			0					0	
							Sum total allowance for ornamental lighting on the site:		0

C-4. WATTAGE ALLOWANCE PER SQUARE FOOT OF SPECIFIC AREA - Table 140.7-B

- Allowances for Building Facades; Outdoor Sales Lots; Vehicle Service Station Hardscape; Vehicle Service Station Canopies; Sales Canopies; Non-sales Canopies; Tunnels; Guard Stations; Student Pick-up/Drop-off zone: Outdoor Dining; Special Security Lighting for Retail Parking and Pedestrian Hardscape.
- If more than one luminaire type is used per location, use multiple rows for that location

01	02	03	04	05	06	07	08	09	10
	ALLOTTED WATTS			DESIGN WATTS					
Name of Location for Which Allowance is Claimed	Illuminated Area of Application	Wattage Allowance per Square Foot	Allotted Watts (02 x 03)	Luminaire Code or Symbol	Luminaire Description	Luminaire Quantity	Watts per Luminaire	Design Watts (07 x 08)	Allowed Watts (smaller of 04 or 09)
			0					0	
			0					0	
			0					0	
			0					0	
							Sum total allowance for specific area on the site:		0

STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
CEC-NRCC-LTO-03-E (Revised 01/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-03-E
Outdoor Lighting Power Allowances	(Page 4 of 4)
Project Name: DUNPHY PARK IMPROVEMENTS	Date Prepared: 8/15/2017

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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Company: ENGINEERING 350 LLC	Signature Date: 8/15/2017
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Responsible Designer Name: DANIEL CASTRO	Responsible Designer Signature:
Company: ENGINEERING 350 LLC	Date Signed: 8/15/2017
Address: 256 MOULTON ST	License: E21019
City/State/Zip: SAN FRANCISCO, CA 94123	Phone: 415-354-0006

rhaa
LANDSCAPE ARCHITECTURE + PLANNING
225 Miller Avenue, Mill Valley, CA 94941
T 415 383 7900 F 415 383 1433 www.rhaa.com

PROJECT/CLIENT NAME

Dunphy Park Improvement Project

200 Napa Street
Sausalito, CA 94965

Owner:
City of Sausalito
420 Litho St.
Sausalito, CA 94965

RHAA PROJECT NUMBER

16042A

CONSULTANT

engineering350
engineering 350 llc
256 moulton street
san francisco, ca 94123
T:415-328-1450
www.engineering350.com

SUBMITTAL

Permit Submittal

DATE

21 August 2017

REVISIONS

No.	Date	Description
1	9-18-2017	Permit Plan Check Response

REGISTRATION AND SIGNATURE

REGISTERED PROFESSIONAL ENGINEER
DANIEL CASTRO
E21019
ELECTRICAL
STATE OF CALIFORNIA

SCALE NONE
1" = 30'-0"
0 15' 30' 60'
N

SHEET TITLE

TITLE 24
COMPLIANCE

DRAWN BY: KZ **CHECKED BY:**

E0.5

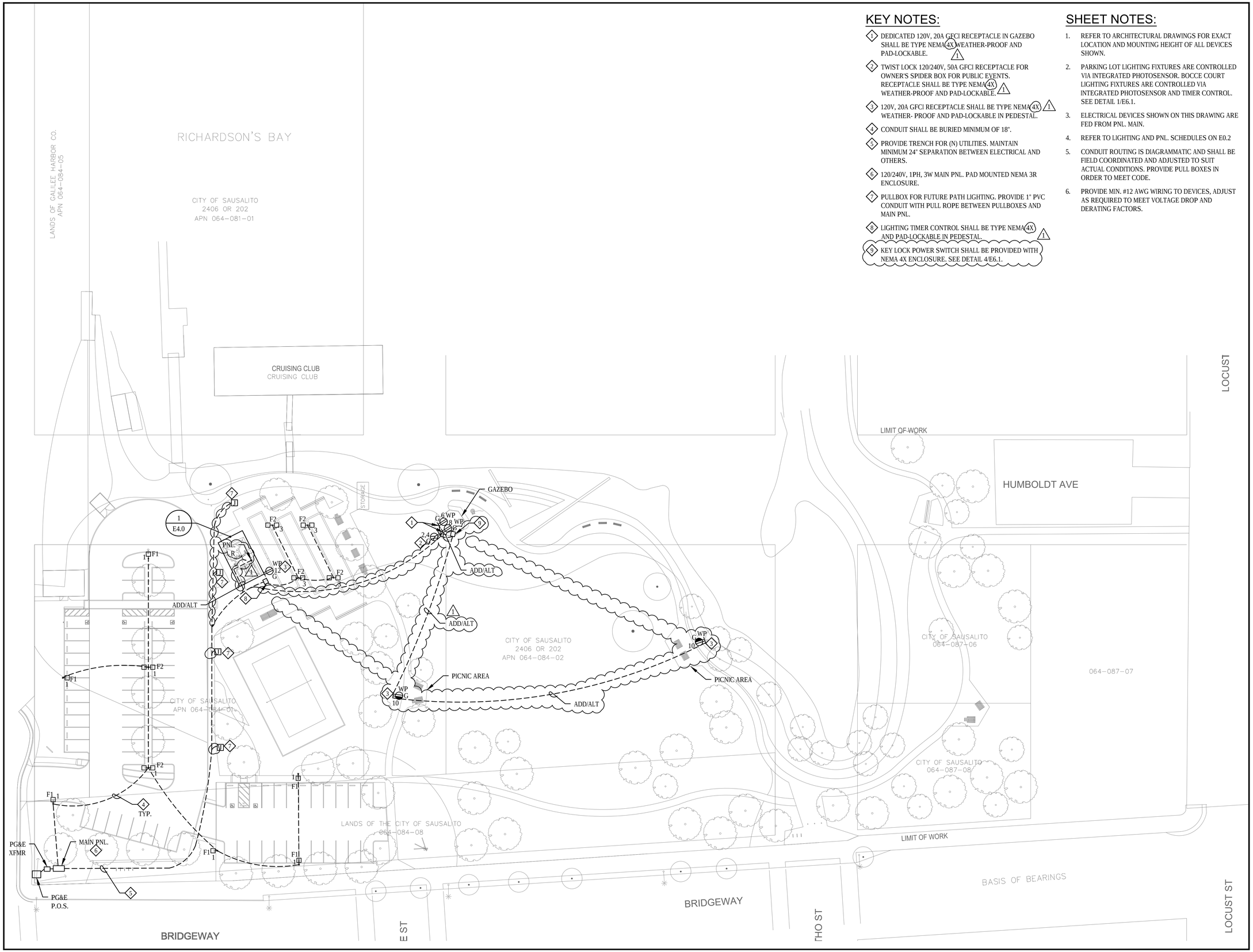
Date Plotted: 9/15/2017 11:43 AM

KEY NOTES:

1. DEDICATED 120V, 20A GFCI RECEPTACLE IN GAZEBO SHALL BE TYPE NEMA 4X WEATHER-PROOF AND PAD-LOCKABLE. (1)
2. TWIST LOCK 120/240V, 50A GFCI RECEPTACLE FOR OWNER'S SPIDER BOX FOR PUBLIC EVENTS. RECEPTACLE SHALL BE TYPE NEMA 4X WEATHER-PROOF AND PAD-LOCKABLE. (1)
3. 120V, 20A GFCI RECEPTACLE SHALL BE TYPE NEMA 4X WEATHER- PROOF AND PAD-LOCKABLE IN PEDESTAL. (1)
4. CONDUIT SHALL BE BURIED MINIMUM OF 18".
5. PROVIDE TRENCH FOR (N) UTILITIES. MAINTAIN MINIMUM 24" SEPARATION BETWEEN ELECTRICAL AND OTHERS.
6. 120/240V, 1PH, 3W MAIN PNL. PAD MOUNTED NEMA 3R ENCLOSURE.
7. PULLBOX FOR FUTURE PATH LIGHTING. PROVIDE 1" PVC CONDUIT WITH PULL ROPE BETWEEN PULLBOXES AND MAIN PNL.
8. LIGHTING TIMER CONTROL SHALL BE TYPE NEMA 4X AND PAD-LOCKABLE IN PEDESTAL. (1)
9. KEY LOCK POWER SWITCH SHALL BE PROVIDED WITH NEMA 4X ENCLOSURE. SEE DETAIL 4/E6.1.

SHEET NOTES:

1. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHT OF ALL DEVICES SHOWN.
2. PARKING LOT LIGHTING FIXTURES ARE CONTROLLED VIA INTEGRATED PHOTOSENSOR. BOCCE COURT LIGHTING FIXTURES ARE CONTROLLED VIA INTEGRATED PHOTOSENSOR AND TIMER CONTROL. SEE DETAIL 1/E6.1.
3. ELECTRICAL DEVICES SHOWN ON THIS DRAWING ARE FED FROM PNL. MAIN.
4. REFER TO LIGHTING AND PNL. SCHEDULES ON E0.2
5. CONDUIT ROUTING IS DIAGRAMMATIC AND SHALL BE FIELD COORDINATED AND ADJUSTED TO SUIT ACTUAL CONDITIONS. PROVIDE PULL BOXES IN ORDER TO MEET CODE.
6. PROVIDE MIN. #12 AWG WIRING TO DEVICES, ADJUST AS REQUIRED TO MEET VOLTAGE DROP AND DERATING FACTORS.



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21 August 2017

REVISIONS

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REGISTRATION AND SIGNATURE

REGISTERED PROFESSIONAL ENGINEER
DANIEL CASTRO
E21018
ELECTRICAL
STATE OF CALIFORNIA

SCALE 1" = 30'-0"
1" = 30'-0"
0 15' 30' 60'
N

SHEET TITLE

ELECTRICAL
SITE PLAN

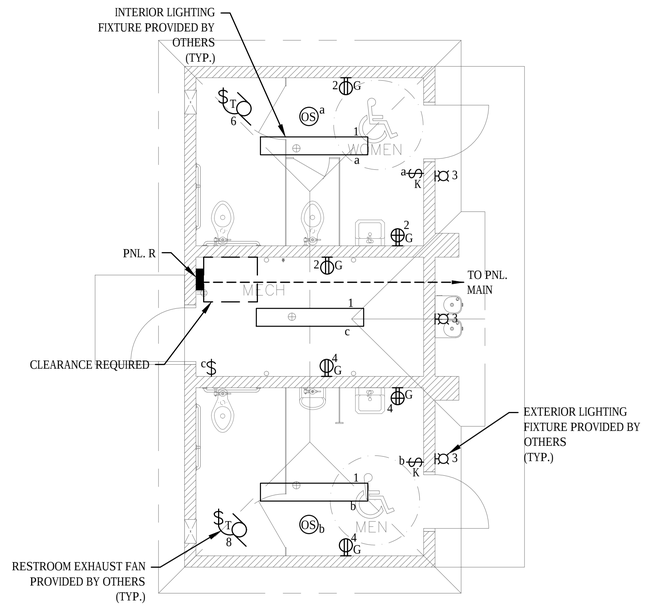
DRAWN BY: KZ **CHECKED BY:**

E2.0

Date Plotted: 9/15/2017 11:43 AM

SHEET NOTES:

1. REFER TO RESTROOM MANUFACTURER DRAWINGS FOR TYPE, EXACT LOCATION AND MOUNTING HEIGHT OF DEVICES SHOWN.
2. LIGHTING FIXTURES AND RECEPTACLES ARE PROVIDED BY RESTROOM MANUFACTURER. CONTRACTOR SHALL PROVIDE WIRING AND CONDUIT FROM PNL. TO DEVICES.
3. ELECTRICAL DEVICES SHOWN ON THIS DRAWING ARE FED FROM PNL. R LOCATED IN RESTROOM UTILITY ROOM.
4. REFER TO E0.2 FOR PNL. SCHEDULE.
5. EXTENSION OF CIRCUIT FROM PNL. MAIN TO PNL. R FOR RESTROOM BUILDING SHALL BE PROVIDED BY CONTRACTOR. COORDINATE LOCATION OF LOADS WITH RESTROOM MANUFACTURER.



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REGISTRATION AND SIGNATURE

REGISTERED PROFESSIONAL ENGINEER
DANIEL CASTRO
E20106
ELECTRICAL
STATE OF CALIFORNIA

SCALE 1/4" = 1'-0"
1" = 30'-0"
0 15' 30' 60'
N

SHEET TITLE

ELECTRICAL
RESTROOM PLAN
(ADD/ALT)

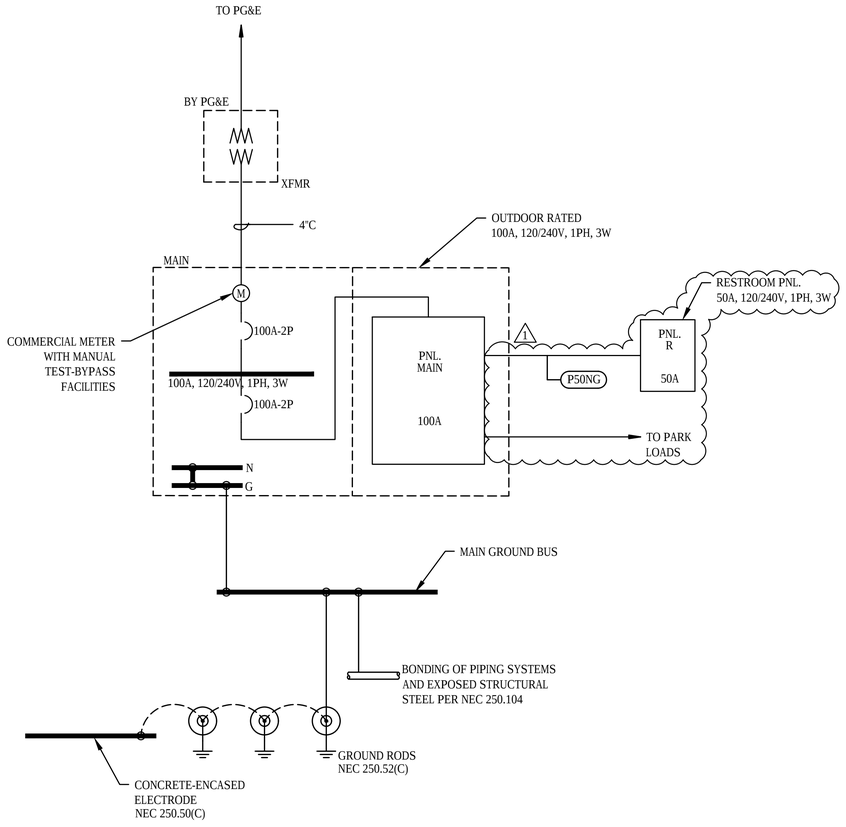
DRAWN BY: KZ **CHECKED BY:**

E4.0

Date Plotted: 9/15/2017 11:43 AM

SHEET NOTES:

1. REFER TO SHEET E0.2 EQUIPMENT CONNECTION SCHEDULE FOR WIRING SCHEDULE.
2. PROVIDE CONCRETE ENCASED GROUNDING ELECTRODE CONDUCTOR IN ACCORDANCE WITH CEC TABLE 250.66. PROVIDE 1/0 KCMIL COPPER ELECTRODE CONDUCTOR. PROVIDE A SEPARATELY DERIVED BONDING JUMPER FROM BUILDING STEEL AND UNDERGROUND WATER PIPES.



rhaa
LANDSCAPE ARCHITECTURE + PLANNING
225 Miller Avenue, Mill Valley, CA 94941
T 415 383 7900 F 415 383 1433 www.rhaa.com

PROJECT/CLIENT NAME

Dunphy Park Improvement Project

200 Napa Street
Sausalito, CA 94965

Owner:
City of Sausalito
420 Litho St.
Sausalito, CA 94965

RHAA PROJECT NUMBER

16042A

CONSULTANT

engineering350
engineering 350 llc
256 moulton street
san francisco, ca 94123
T:415-328-1450
www.engineering350.com

SUBMITTAL

Permit Submittal

DATE

21 August 2017

REVISIONS

No.	Date	Description
1	9-18-2017	Permit Plan Check Response

REGISTRATION AND SIGNATURE

REGISTERED PROFESSIONAL ENGINEER
DANIEL CASTRO
E20166
ELECTRICAL
STATE OF CALIFORNIA

SCALE NONE
1" = 30'-0"
0 15' 30' 60'
N

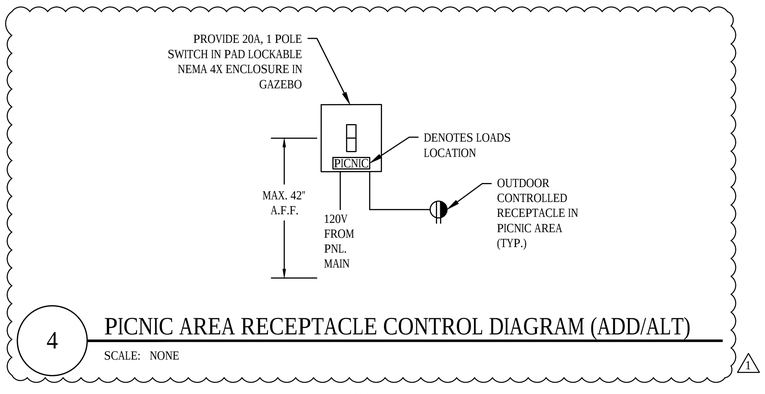
SHEET TITLE

ELECTRICAL
DIAGRAMS

DRAWN BY: KZ **CHECKED BY:**

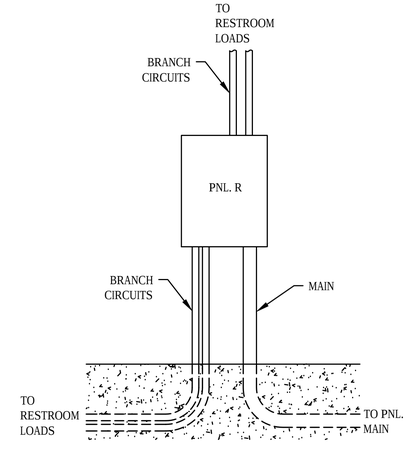
E5.1

Date Plotted: 9/15/2017 11:43 AM



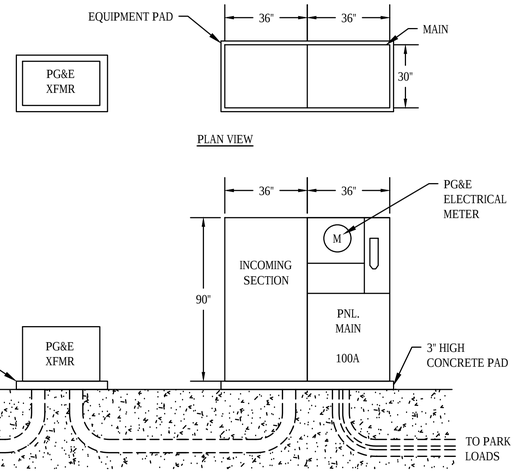
4 PICNIC AREA RECEPTACLE CONTROL DIAGRAM (ADD/ALT)

SCALE: NONE



3 RESTROOM PANELBOARD DETAIL (ADD/ALT)

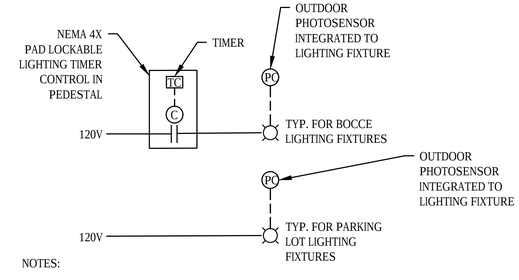
SCALE: NONE



NOTES:
1. EQUIPMENT ENCLOSURE SHALL BE PAD LOCKABLE.
2. COORDINATE XFMR DIMENSIONS WITH PG&E.
3. EQUIPMENT PAD SHALL BE COORDINATED WITH EQUIPMENT MANUFACTURER. RETAIN STRUCTURAL FOR APPROVAL.

2 ELECTRICAL SERVICE EQUIPMENT DETAIL

SCALE: NONE



NOTES:
1. PARKING LOT LIGHTING FIXTURES: LIGHTS SHALL TURN ON AT DUSK AND TURN OFF WHEN DAYLIGHT IS AVAILABLE.
2. BOCCE COURT LIGHTING FIXTURES: LIGHTS SHALL TURN ON AT DUSK AND TURN OFF AT A PRE-PROGRAMMED TIME. COORDINATE WITH OWNER FOR TIME SCHEDULING

1 EXTERIOR LIGHTING CONTROL DIAGRAM

SCALE: NONE

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REGISTERED PROFESSIONAL ENGINEER
DANIEL CASTRO
E20[illegible]
ELECTRICAL
STATE OF CALIFORNIA

SCALE NONE
1" = 30'-0"
0 15' 30' 60'
N

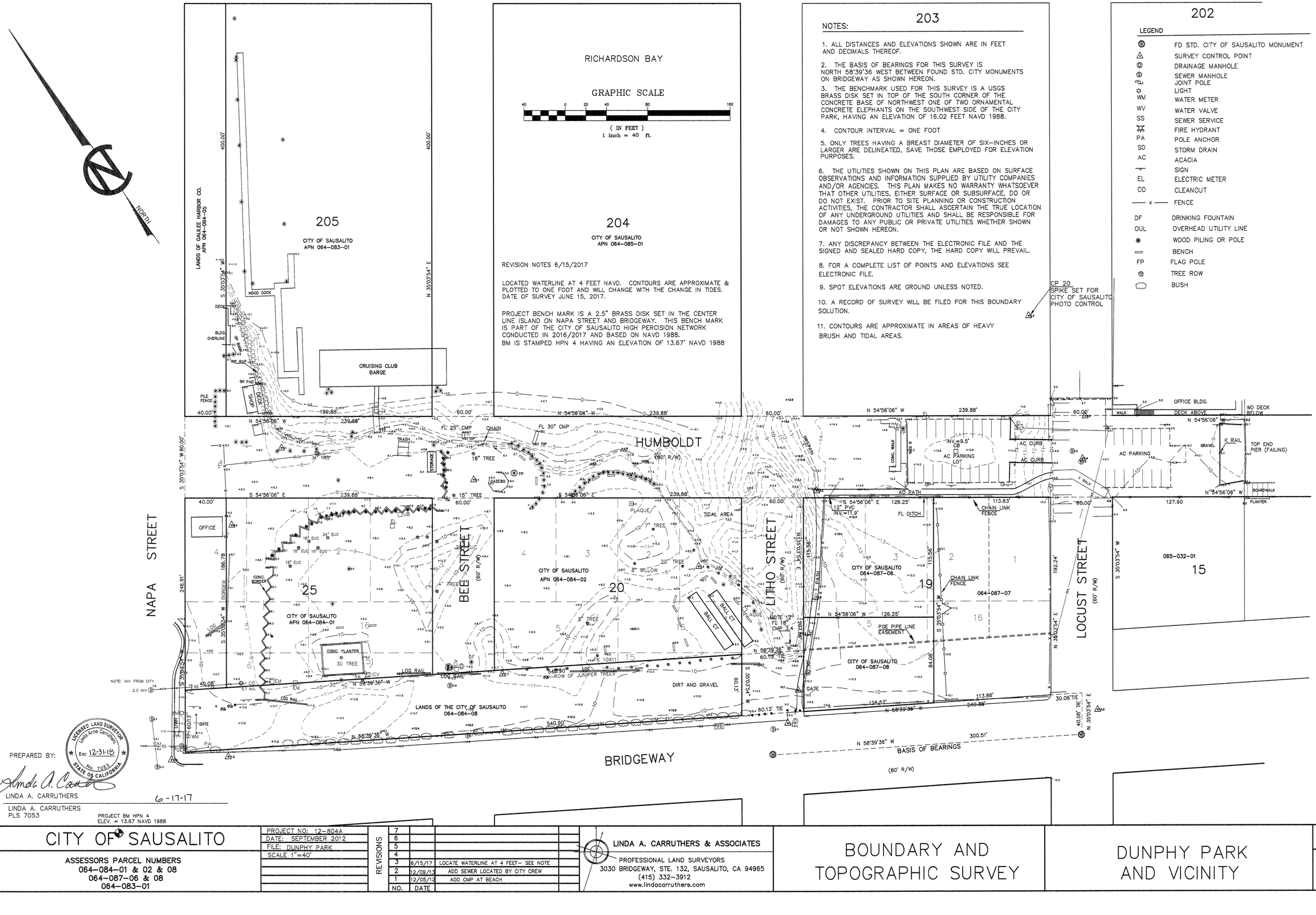
SHEET TITLE

ELECTRICAL DETAILS

DRAWN BY: KZ **CHECKED BY:**

E6.1

Date Plotted: 9/15/2017 11:43 AM



PREPARED BY:

LICENSED LAND SURVEYOR Linda Anne Carruthers Exp. 12-31-18 No. 7053 STATE OF CALIFORNIA

LINDA A. CARRUTHERS 6-17-17

LINDA A. CARRUTHERS
PLS 7053

PROJECT BM HPN 4
ELEV. = 13.67 NAVD 1988

CITY OF SAUSALITO

ASSESSORS PARCEL NUMBERS
064-084-01 & 02 & 08
064-087-06 & 08
064-083-01

PROJECT NO: 12-804A
DATE: SEPTEMBER 2012
FILE: DUNPHY PARK
SCALE 1"=40'

REVISIONS NO.	DATE	
7		
6		
5		
4		
3	6/15/17	LOCATE WATERLINE AT 4 FEET- SEE NOTE
2	12/09/13	ADD SEWER LOCATED BY CITY CREW
1	12/05/12	ADD CMP AT BEACH

LINDA A. CARRUTHERS & ASSOCIATES
PROFESSIONAL LAND SURVEYORS
3030 BRIDGEWAY, STE. 132, SAUSALITO, CA 94965
(415) 332-3912
www.lindacarruthers.com

BOUNDARY AND TOPOGRAPHIC SURVEY

DUNPHY PARK AND VICINITY

SHT. 1 OF 1

1