

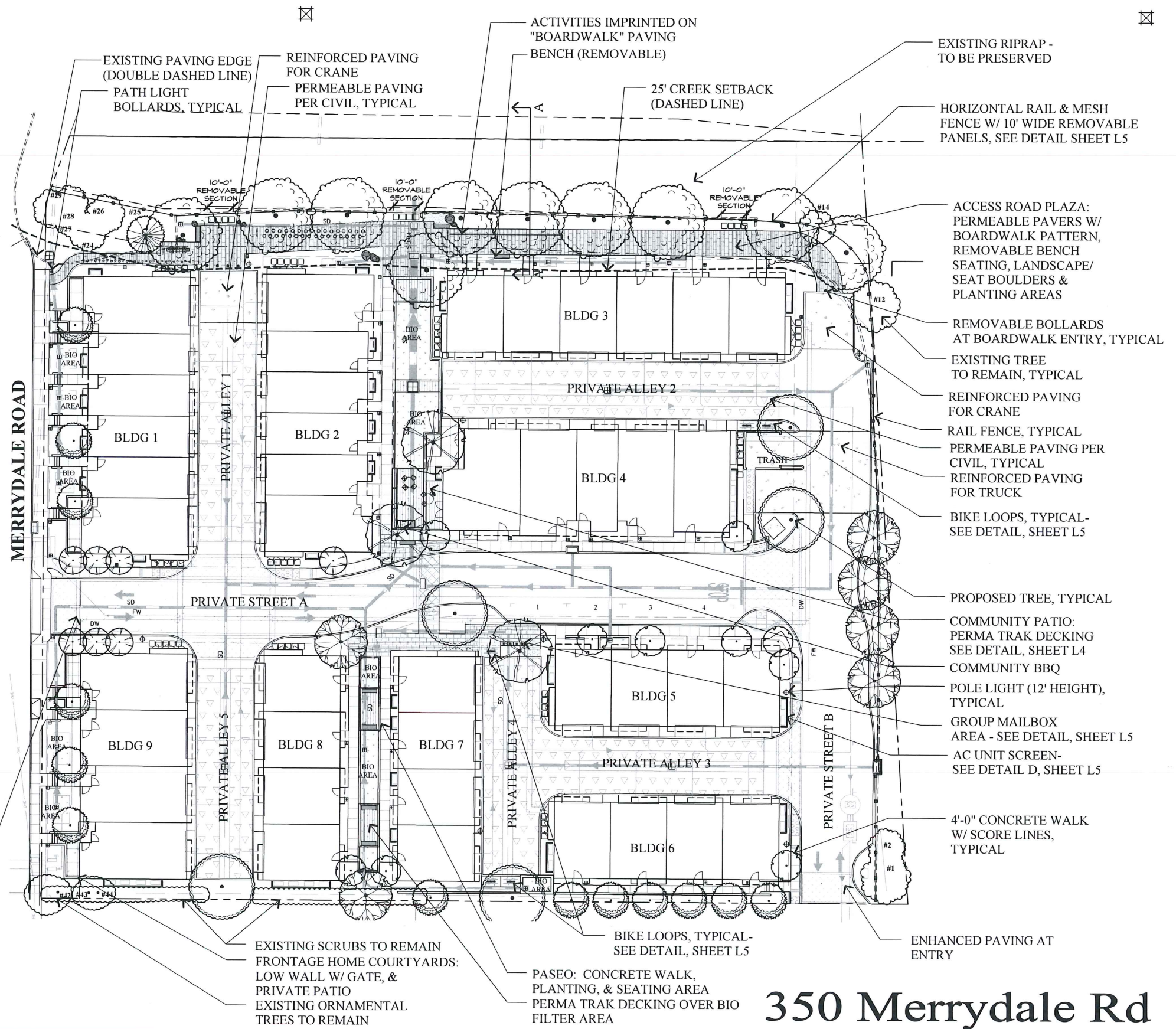
PRELIMINARY PROPOSED PLANT PALETTE

BOTANICAL NAME	COMMON NAME	SIZE	WIDTH / HEIGHT	WATER USE	QUANTITY
TREES					
#XXX	EXISTING TREE TO REMAIN	#XXX			
#XX	EXISTING TREE TO BE REMOVED	#XXX			
SPECIMEN TREES					
OLEA 'WILSONII'	WILSON OLIVE	24" BOX	25' WIDE/25' HIGH	LOW	3
TRISTANIA CONFERTA	BRISBANE BOX	24" BOX	25' WIDE/30-40' HIGH	LOW-MEDIUM	5
ACCENT TREES					
PYRUS C. 'CAPITAL'	CAPITAL PEAR	24" BOX	12' WIDE/25' HIGH	LOW	7
EVERGREEN TREES					
ARBUTUS MARINA	STRAWBERRY TREE	24" BOX	20' WIDE/30' HIGH	LOW	6
PRUNUS CAROLINIANA 'COMPACTA'	CAROLINA CHERRY	15 GALLON	15' WIDE/10' HIGH	LOW	13
LAURUS NOBILIS	SWEET BAY	24" BOX	15' WIDE/15' HIGH	LOW	10
BOARDWALK TREES					
ARBUTUS MENZIESII	MADRONE	15 GALLON	30' WIDE/30' HIGH	LOW	1
CORNUS NUTTALLII	PACIFIC DOGWOOD	15 GALLON	15' WIDE/15' HIGH	LOW	10
SHRUBS					
ACH 'MOO'	ACHILLEA X 'MOONSHINE'	MOONSHINE YARROW	1 GALLON	LOW	58
ANI 'B.P.'	ANIGOZANTHOS 'BUSH PEARL'	DWARF KANGAROO PAW	1 GALLON	LOW	238
BOU 'B.A.'	BOUTALOUA G. 'BLONDE AMBITION'	BLUE GRAMA GRASS	1 GALLON	LOW	144
BUD 'DW'	BUDDLEJA D. 'DWARF VARIETY'	DWARF BUTTERFLY BUSH	5 GALLON	LOW	24
CHO 'TEC'	CHORONOPETALUM TECTORUM	CAPE RUSH	5 GALLON	LOW	38
CIS 'PRO'	CISTUS S. 'PROSTRATUS'	SAGELEAF ROCKROSE	1 GALLON	LOW	231
DIE 'BIC'	DIETES BICOLOR	FORTNIGHT LILY	1 GALLON	LOW	104
FRA 'CAL'	FRANGULA CALIFORNICA	CALIFORNIA COFFEEBERRY	5 GALLON	LOW	2
GAU 'LIN'	GAURA LINDHEIMERI	LINDHEIMER'S BEEBLOSSOM	1 GALLON	LOW	88
HES 'PAR'	HESPERALOE PARVIFLORA	RED YUCCA	1 GALLON	LOW	219
HES 'PER'	HESPERALOE P. 'PERPA'	BRAKELIGHTS RED YUCCA	1 GALLON	LOW	73
KNI 'P.P.'	KNIPHOFIA 'PINEAPPLE POPSICLE'	RED HOT POKKER	1 GALLON	LOW	213
LAV 'MAR'	LAVATERA MARITIMA	TREE MALLOW	5 GALLON	LOW	99
LOM 'BRE'	LOMANDRA L. 'BREEZE'	DWARF MAT RUSH	1 GALLON	LOW	214
LOR 'E.S.'	LOROPETALUM 'EMERALD SNOW'	CHINESE FRINGE FLOWER	5 GALLON	LOW	94
MOR 'CAL'	MORELLA CALIFORNICA	CALIFORNIA WAX MYRTLE	1 GALLON	LOW	20
MUH 'RIG'	MUHLENBERGIA RIGENS	DEER GRASS	5 GALLON	LOW	13
OLE 'L.O.'	OLEA E. 'LITTLE OLLIE'	DWARF OLIVE	5 GALLON	LOW	186
PHO 'M.M.'	PHORMIUM T. 'MAORI MAIDEN'	NEW ZEALAND FLAX	5 GALLON	LOW	9
POL 'MUN'	POLYSTICHUM MUNITUM	WESTERN SWORD FERN	1 GALLON	LOW	18
PRU 'BAT'	PRUNUS BRIGHT & TIGHT	BRIGHT & TIGHT LAUREL	5 GALLON	LOW	78
TEU 'CHA'	TEUCHIUM CHAMAEDRY'S	GERMANDER	1 GALLON	LOW	116
XYL 'COM'	XYLOSMA C. 'COMPACTA'	COMPACT XYLOSMA	5 GALLON	LOW	72
VINES					
LON 'HIS'	LONICERA HISPIDULA	HAIRY HONEYSUCKLE	5 GALLON	LOW	6
SHRUBS - BIO-RETENTION					
BUD 'DW'	BUDDLEJA 'DWARF VARIETIES'	DWARF BUTTERFLY BUSH	1 GALLON	LOW	15
CAR 'DIP'	CAREX DIPSACEA	AUTUMN SEDGE	1 GALLON	LOW	175
JUN 'PAT'	JUNCUS PATENS	CALIFORNIA RUSH	1 GALLON	LOW	210

SUMMARY DATA TABLE:

LANDSCAPE AREA	QUANTITY	%
TOTAL SITE AREA	99,150	100%
TOTAL LANDSCAPED AREA	18,466	18.6%
AREA OF 15' SETBACK AT MERRYDALE RD.	3,848	100%
LANDSCAPED AREA WITHIN SETBACK	2,093	55%
PROPOSED PLANTING		
TOTAL TREES	55	100%
24" BOX TREES	31	56%
15 GALLON TREES	24	44%
TOTAL SHRUBS	2,651	100%
5 GALLON	1,180	60%
1 GALLON	1,771	40%
PROPOSED AMENITIES		
POLE LIGHTS	9	
LIGHT BOLLARDS	58	

- NOTES:**
- ALL TREES SHALL BE PLANTED AND STAKED PER CITY STANDARDS.
 - TREES BE PLANTED WITHIN 3' OF HARDSCAPE ELEMENTS, SHALL HAVE A LINEAR ROOT BARRIER INSTALLED ADJACENT TO THE HARDSCAPE ELEMENT AT TIME OF TREE PLANTING.
 - LANDSCAPE AND IRRIGATION SHALL COMPLY WITH CITY'S CURRENT WATER-EFFICIENT LANDSCAPE ORDINANCE.
 - ALL PLANTING AREAS SHALL BE AUTOMATICALLY IRRIGATED PER CITY STANDARDS, USING LOW-FLOW SPRAY, BUBBLERS OR DRIP METHODS.
 - ALL PLANTING AREAS SHALL BE MULCHED TO A MINIMUM DEPTH OF 3".



CAMPUS PROPERTY GROUP

Landscape & Lighting Plan

350 Merrydale Rd

San Rafael, California

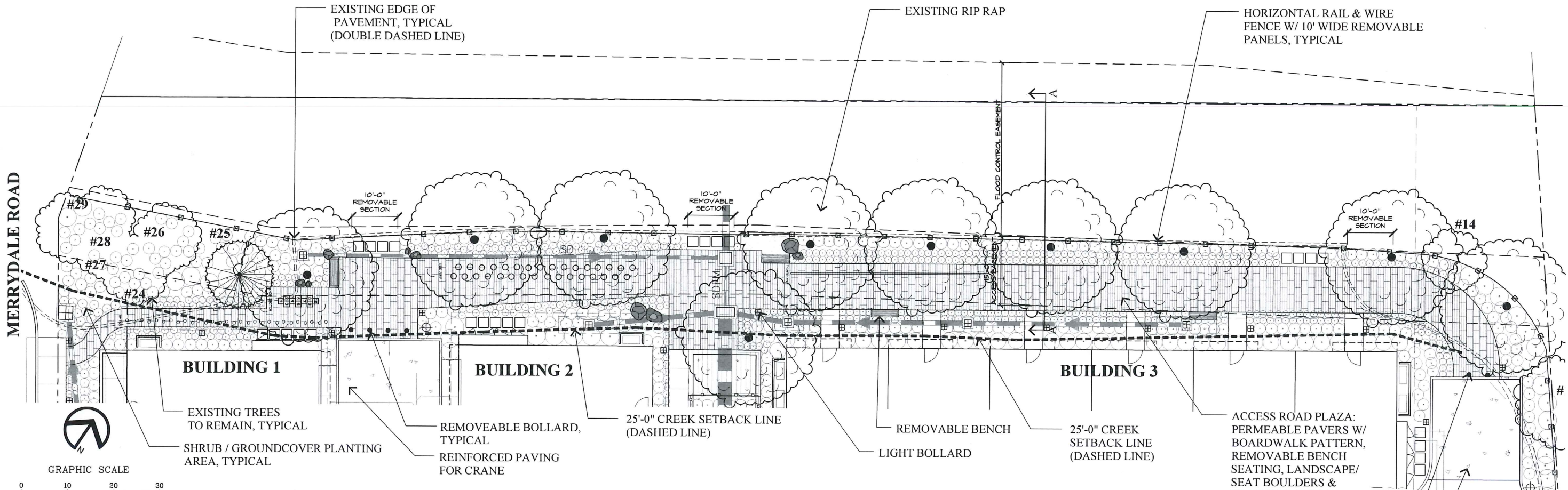
OCTOBER, 2019

L1

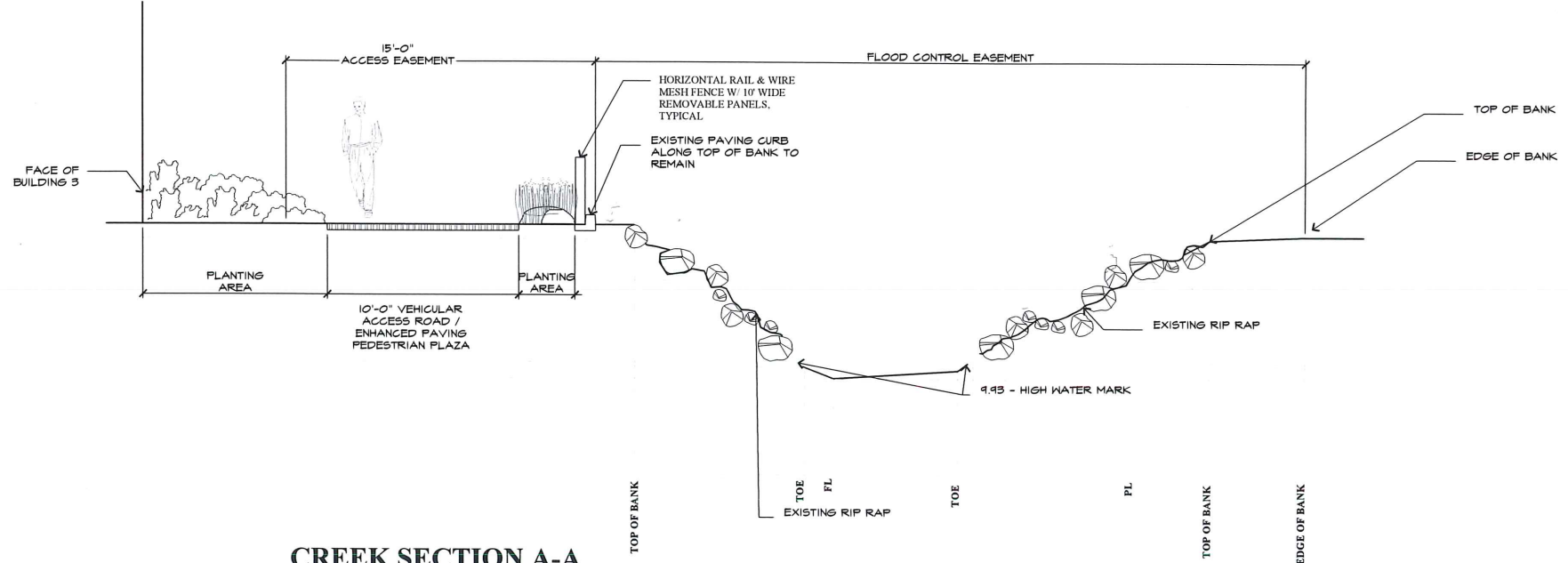
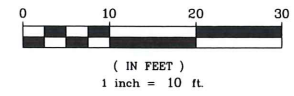
RIPLEY DESIGN GROUP
 LANDSCAPE ARCHITECTURE
 LAND PLANNING
 1615 BONANZA STREET
 SUITE 314
 WALNUT CREEK, CA 94596
 TEL: 925.938.7377
 FAX: 925.938.7436

GRAPHIC SCALE
 0 20 40 60
 (IN FEET)
 1 inch = 20 ft.

MERRYDALE ROAD



GRAPHIC SCALE



CREEK SECTION A-A
Section / Elevation
1" = 4'-0"

350 Merrydale Rd

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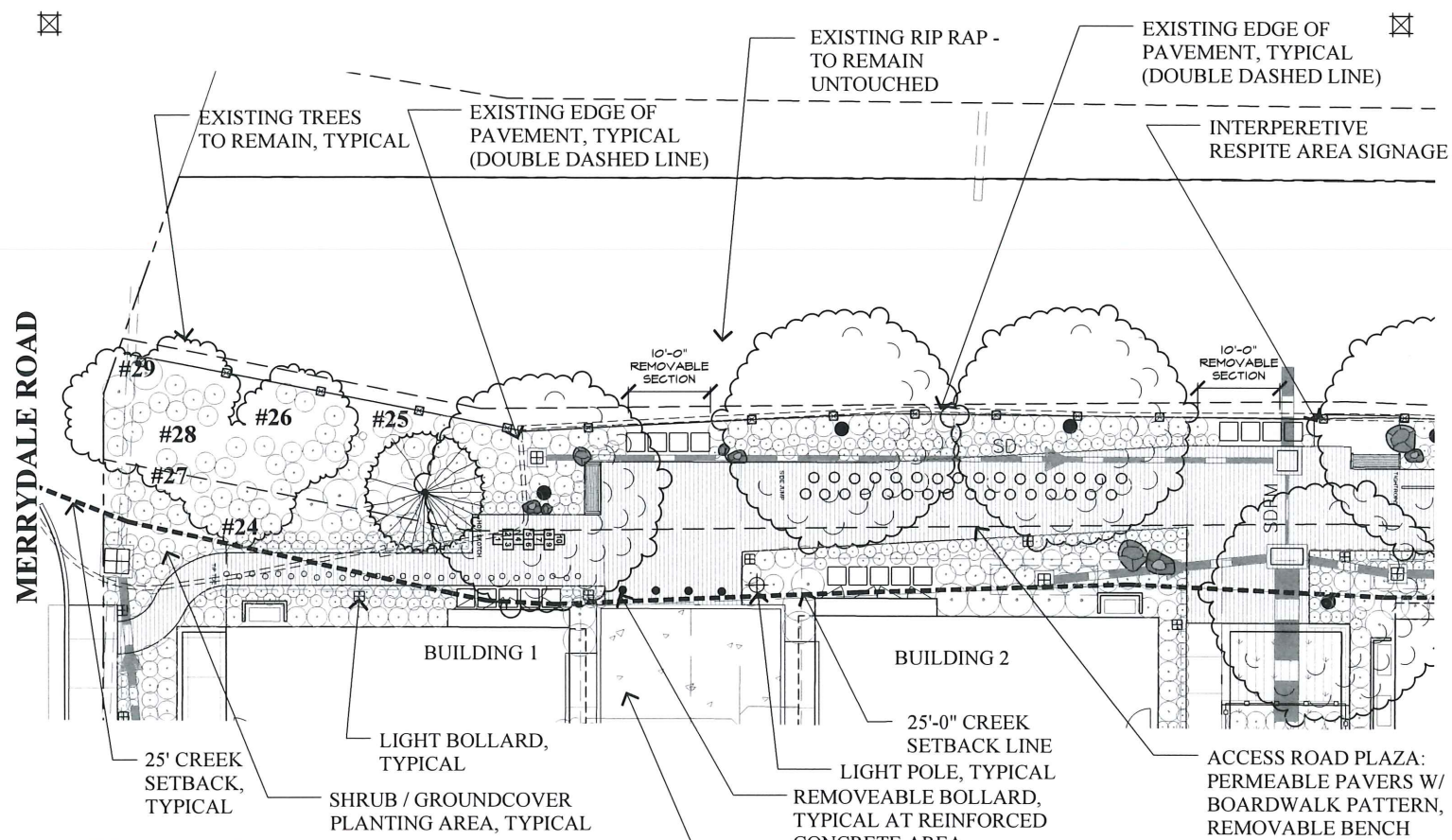
CAMPUS PROPERTY GROUP

Preliminary Landscape Plan
Creek Enlargement

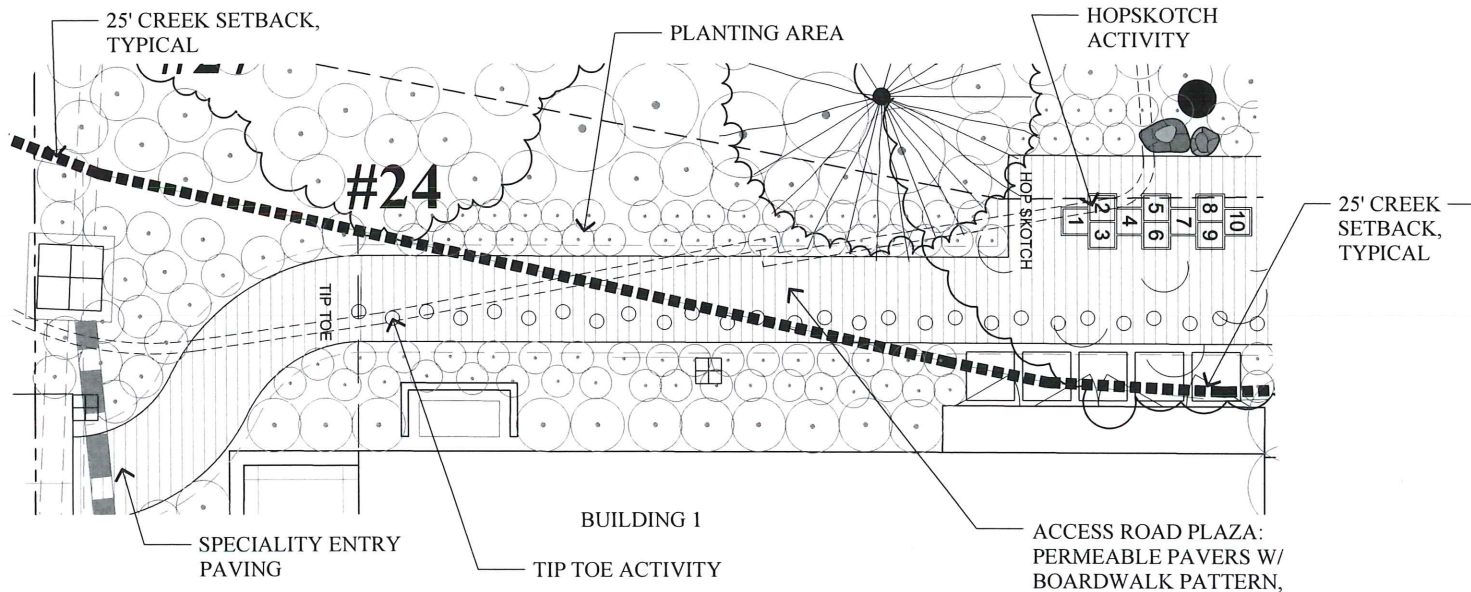
San Rafael, California

OCTOBER, 2019

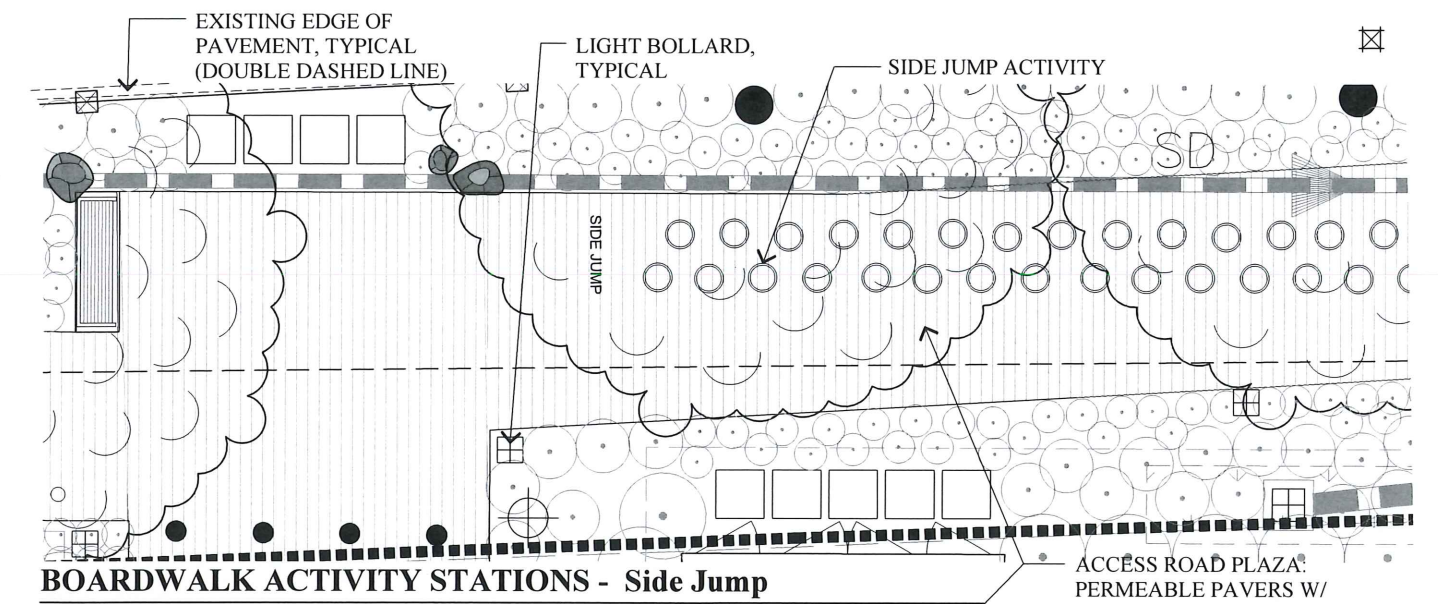
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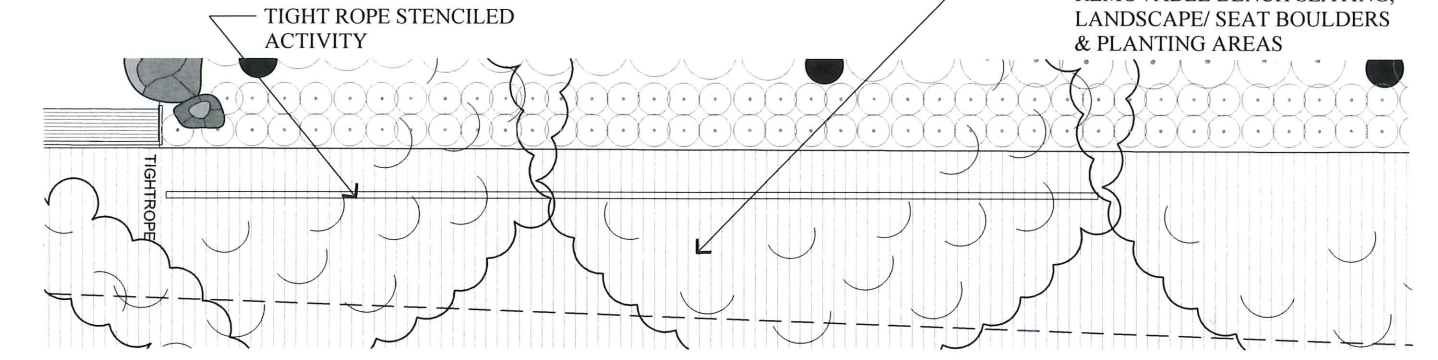
CREEK ACCESS
Plan Enlargement
SCALE: 1"=10'



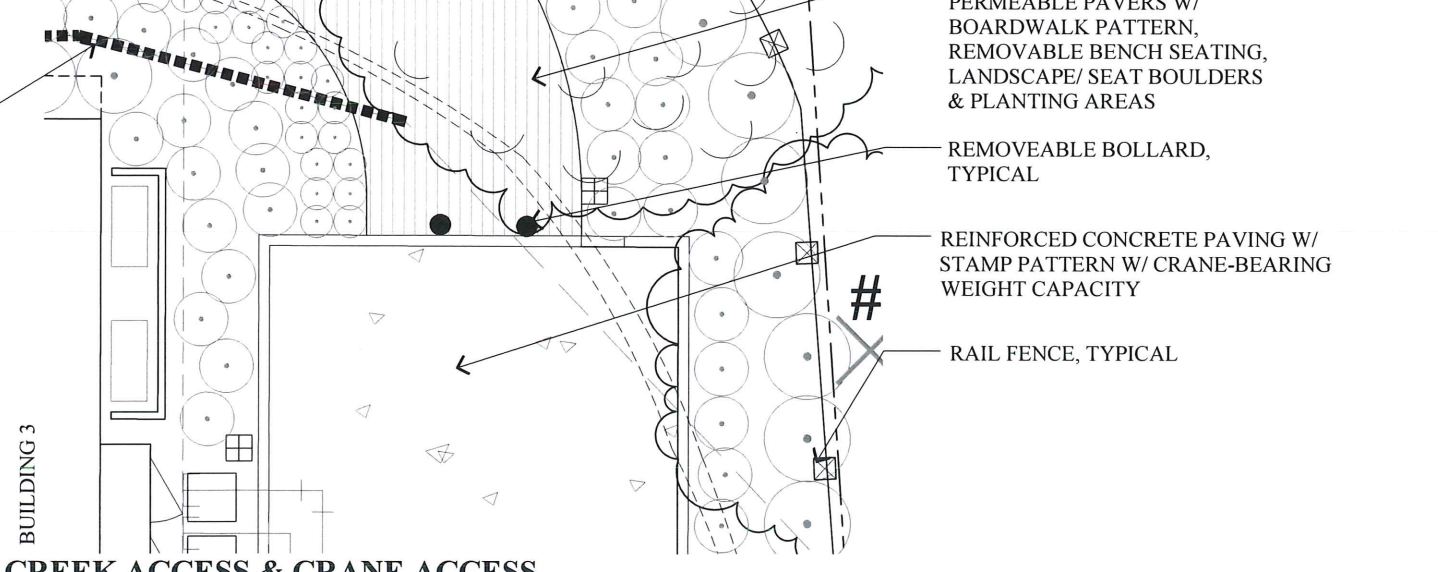
BOARDWALK ACTIVITY STATIONS - Hopskotch & Tip Toe
Plan Enlargement
SCALE: 1"=10'



BOARDWALK ACTIVITY STATIONS - Side Jump
Plan Enlargement
SCALE: 1"=10'



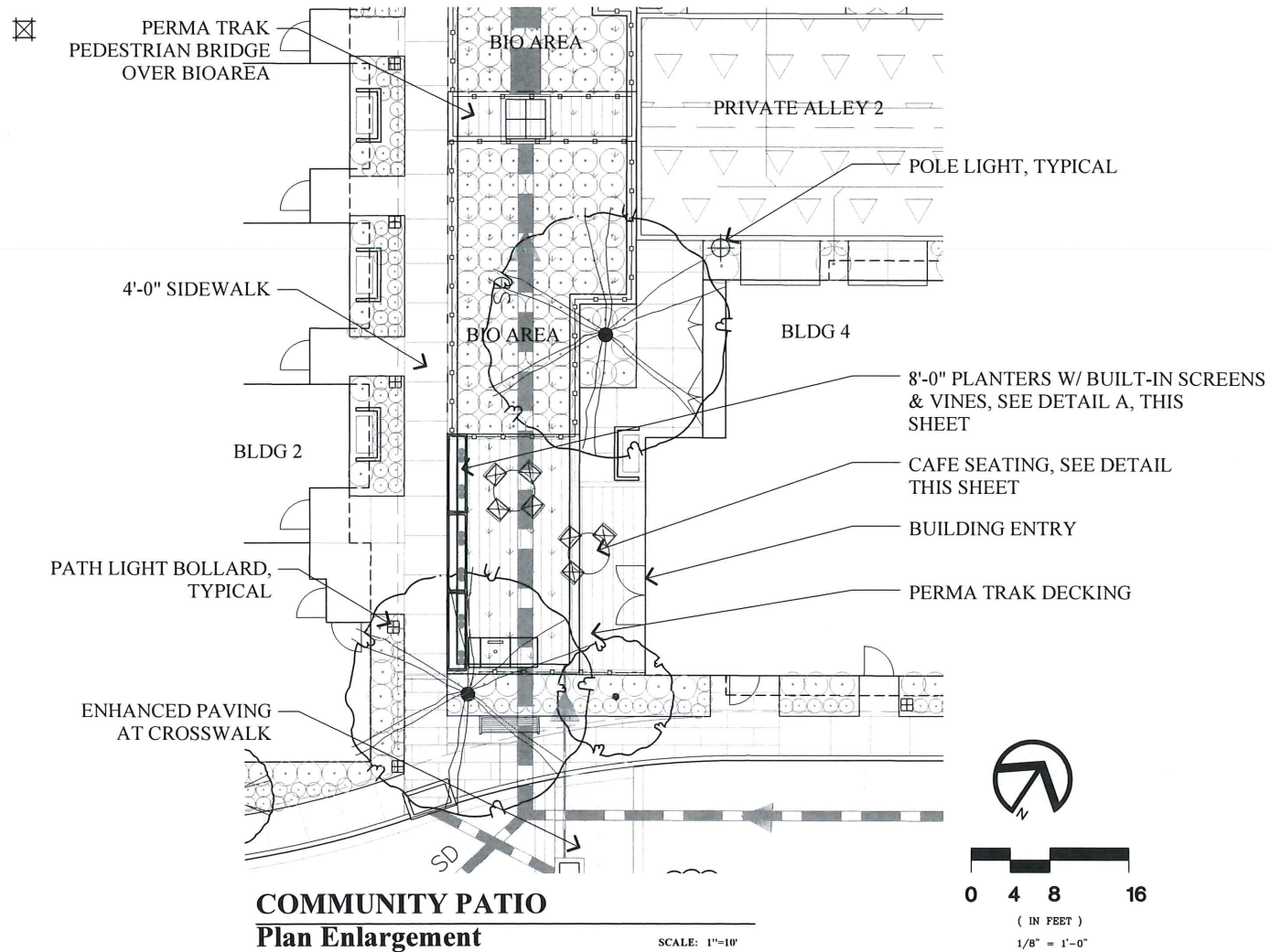
BOARDWALK ACTIVITY STATIONS - Tight Rope
Plan Enlargement
SCALE: 1"=10'



CREEK ACCESS & CRANE ACCESS
Plan Enlargement
SCALE: 1"=10'

350 Merrydale Rd

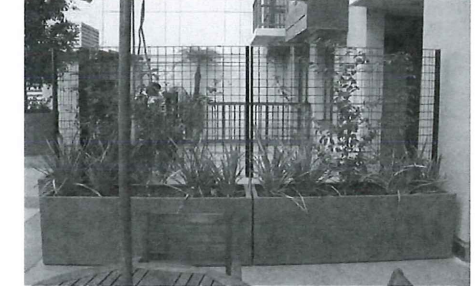




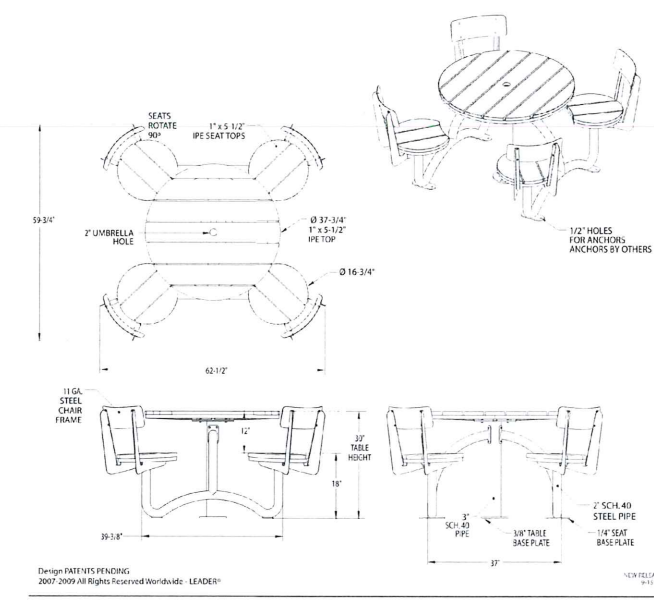
TOURNESOL TABLE W/ IPE TOPS



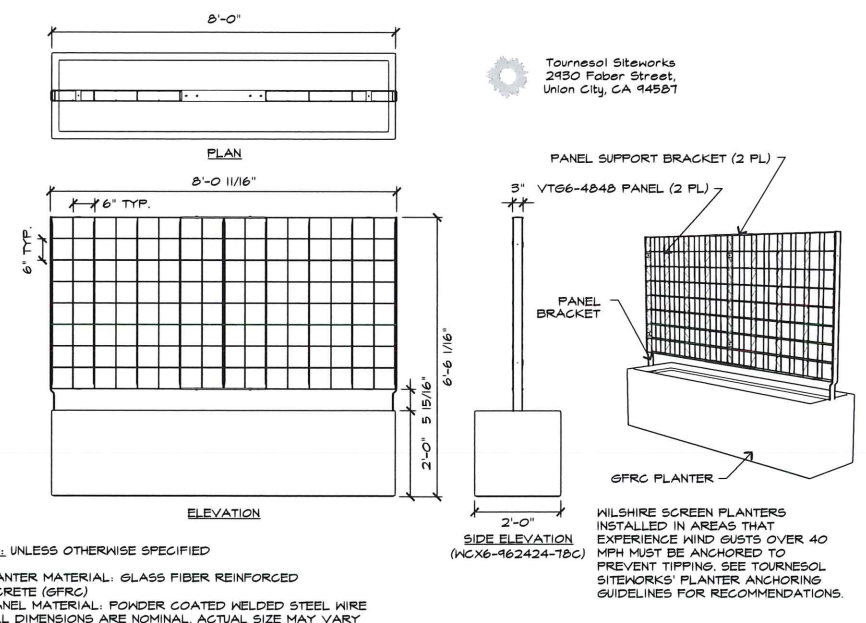
PERMA TRAK DECKING



TOURNESOL WILSHIRE SCREEN



Model F-9 Picnic Table, with Ipe Tops



WILSHIRE SCREEN BY TOURNESOL SITEWORKS

SPECIFICATIONS

MATERIAL
The table and seats are fabricated with 11 gauge welded steel framework. The center post is 3\"/>

HARDWARE
Fasteners shall be stainless steel bolts, nuts and washers
Anchor bolts by others

PROTECTIVE COATINGS
Wood: clear wood preservative
Powder Coating: Following fabrication, all metal shall be cleaned and treated with an iron phosphate process prior to the coating application. This process shall include a non-chromated alkaline cleaner and an iron phosphate treatment followed with an acidic sealer for maximum adhesion. The protective coatings shall be either polyester or polyester TPO powder. Following application the parts shall be baked until properly cured. The coating shall be a minimum of 4 mils thick on all surfaces.

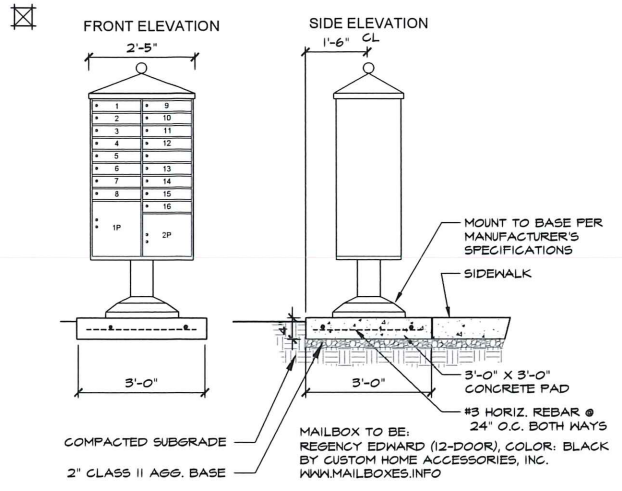
OPTIONS
Table and seat tops:
Metal: Perforated steel
Wood: 1\"/>

FairWeather Site Furnishings
2150 Fobler Street,
Union City, CA 94587

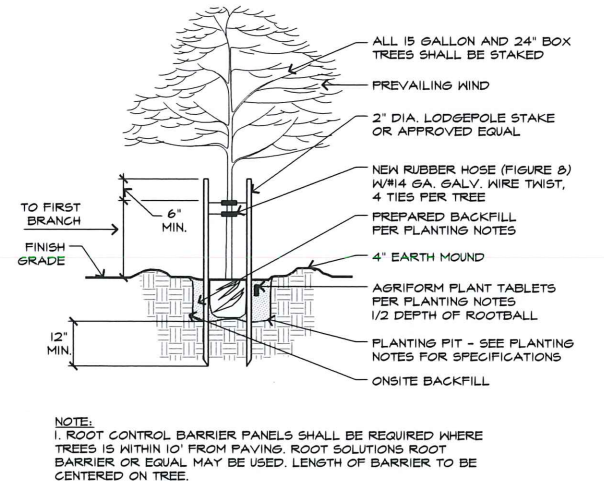
EXISTING TREE LEGEND

* REFER TO TREES INVENTORY

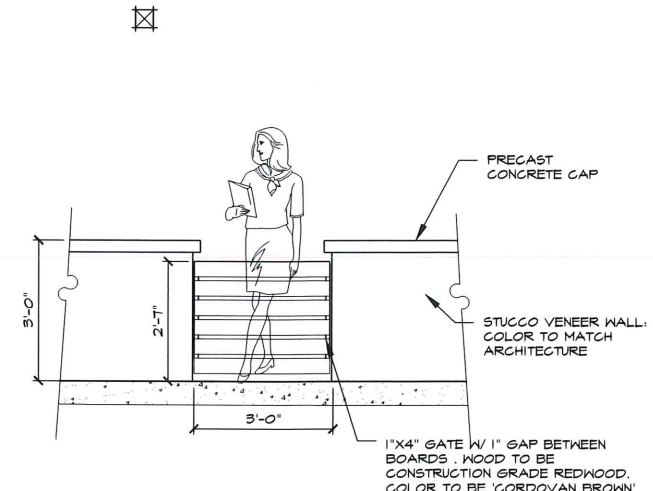
TREE #	DATE	LOCATION	SPECIES	COMMON NAME	CANOPY HEIGHT	COND.	DECA	DEFECTS	COMMENTS
1	11/21/2018	ENTRANCE GATE AT DRAINAGE CANAL	PINUS MURICATA	BISHOP PINE	17.340	GOOD	N/A	NONE	THIN CANOPY, CALIF. NATIVE
2	1/21/2018	ENTRANCE GATE AT DRAINAGE CANAL	PINUS MURICATA	BISHOP PINE	13.540	FAIR	N/A	NONE	THIN CANOPY CALIF. NATIVE
3	1/21/2018	ENTRANCE GATE AT DRAINAGE CANAL	QUERCUS	COAST LIVE OAK	11	GOOD	N/A	NONE	MULTI STEM YOUNG TREE CALIF. NATIVE
4	1/21/2018	ENTRANCE GATE AT DRAINAGE CANAL	QUERCUS	COAST LIVE OAK	3.113	POOR	N/A	NONE	SINGLE TRUNK TREE CALIF. NATIVE - DEAD - TO BE REMOVED
5	1/21/2018	ALONG DRAINAGE CANAL E. PROPERTY	PINUS MURICATA	BISHOP PINE	10.740	POOR	N/A	NONE	PITCH FLOW & PINE BORERS BROWNING NEEDLES THROUGHOUT CANOPY REMOVE
6	1/21/2018	ARBOR AT SIDEWALK & BUILDING	JUNIPER OCCIDENTALIS	WESTERN JUNIPER	13.450	FAIR	N/A	NONE	STRUCTURE CONFLICT IMPACT CONFLICT BY BUILDING ARBOR & TRUNK REMOVAL NECESSARY
7	1/21/2018	EAST PARKING LOT PLANTER BED	QUERCUS	COAST LIVE OAK	6+2.1+2+2+2+45	GOOD	N/A	NONE	MULTI STEM TREE CALIF. NATIVE
8	1/21/2018	EAST PARKING LOT PLANTER BED	SEQUOIA	COASTAL REDWOOD	12.548	GOOD	N/A	NONE	CALIF. NATIVE TREE
9	1/21/2018	EAST PARKING LOT PLANTER BED	QUERCUS	COAST LIVE OAK	11.245	GOOD	N/A	NONE	CALIF. NATIVE TREE
10	1/21/2018	EAST PARKING LOT PLANTER BED	QUERCUS	COAST LIVE OAK	2.5+322	GOOD	N/A	NONE	2 STEMS, CALIF NATIVE
11	1/21/2018	EAST PARKING LOT PLANTER BED	SEQUOIA	COASTAL REDWOOD	13.345	GOOD	N/A	NONE	CALIF. NATIVE TREE
12	1/21/2018	EAST PARKING LOT PLANTER BED	SEQUOIA	COASTAL REDWOOD	3.56	GOOD	N/A	NONE	CALIF. NATIVE TREE
13	1/21/2018	N.E. CORNER AT DRAINAGE CANAL	QUERCUS	WHITE OAK	16.367	GOOD	N/A	NONE	STRESSED DECIDUOUS CALIF. NATIVE TREE
14	1/21/2018	PLANTER BED PARKING LOT	SEQUOIA	COASTAL REDWOOD	18.2+18.780	GOOD	N/A	NONE	DOUBLE STEM, CALIF. NATIVE TREE
15	1/21/2018	N.E. CORNER AT DRAINAGE CANAL	SEQUOIA	COASTAL REDWOOD	24.755	GOOD	N/A	NONE	SINGLE STEM TREE CALIF. NATIVE
16	1/21/2018	N.E. CORNER AT DRAINAGE CANAL	LIQUID AMBER	SWEETGUM	5.840	OK	N/A	NONE	INVASIVE ROOTS REMOVE TO ALLOW FOR REDWOOD DEVELOPMENT
17	1/21/2018	N.E. CORNER AT DRAINAGE CANAL	LIQUID AMBER	SWEETGUM	840	OK	N/A	NONE	INVASIVE ROOTS REMOVE TO ALLOW FOR REDWOOD DEVELOPMENT
18	1/21/2018	MID PARKING LOT NORTH PLANTER	UNKNOWN TREE DECIDUOUS		6.7+5.5+5.730	OK	N/A	NONE	MULTI STEM AT 3 FT. DBH
19	1/21/2018	MID PARKING LOT NORTH PLANTER	UNKNOWN TREE DECIDUOUS		8.525	OK	N/A	NONE	2 MAIN STEMS
20	1/21/2018	MID PARKING LOT NORTH PLANTER	UNKNOWN TREE DECIDUOUS		6+427	OK	N/A	NONE	2 MAIN STEMS FR. BASE OF TREE
21	1/21/2018	MID PARKING LOT NORTH PLANTER	UNKNOWN TREE DECIDUOUS		4+8.525	OK	N/A	NONE	
22	1/21/2018	PARKING LOT MERRYDALE RD.	SEQUOIA	COASTAL REDWOOD	23+1698	GOOD	N/A	NONE	2 COMPACTED STEMS TO BE REMOVED (5\"/>



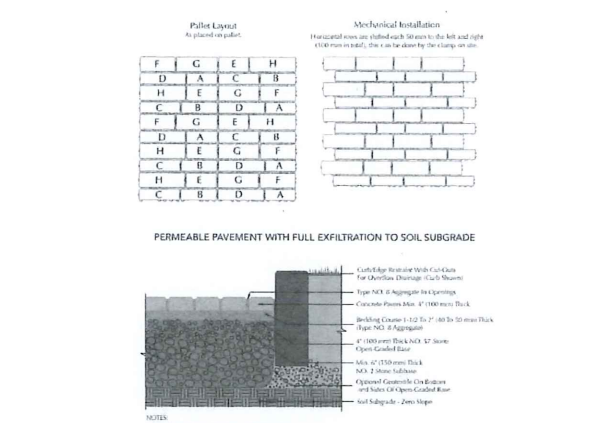
A COMMUNITY MAILBOXES



B TREE PLANTING AND STAKING DETAIL SCALE: 1/2" = 1'-0" 024 - TreePlanting



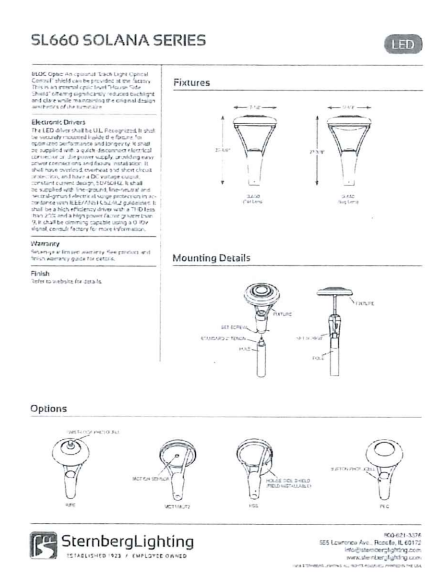
C LOW WALLS W/ GATE (FRONTAGE UNITS) SCALE: 1/2" = 1'-0" 024 -



BASALITE PERMEABLE PLANK PAVER AT "BOARDWALK"



ENHANCED PAVING AT CROSSWALKS COLORED / STAMPED CONCRETE



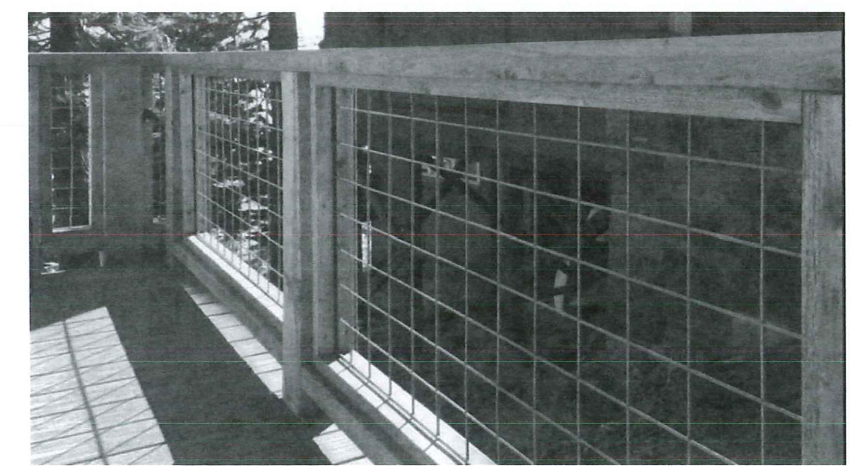
SOLANA POLE LIGHT & LIGHTED BOLLARD



DAYTIME



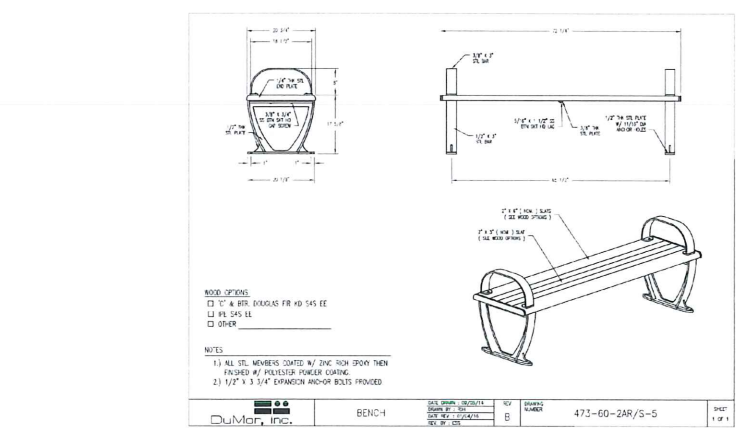
NIGHTTIME



CREEK FENCE



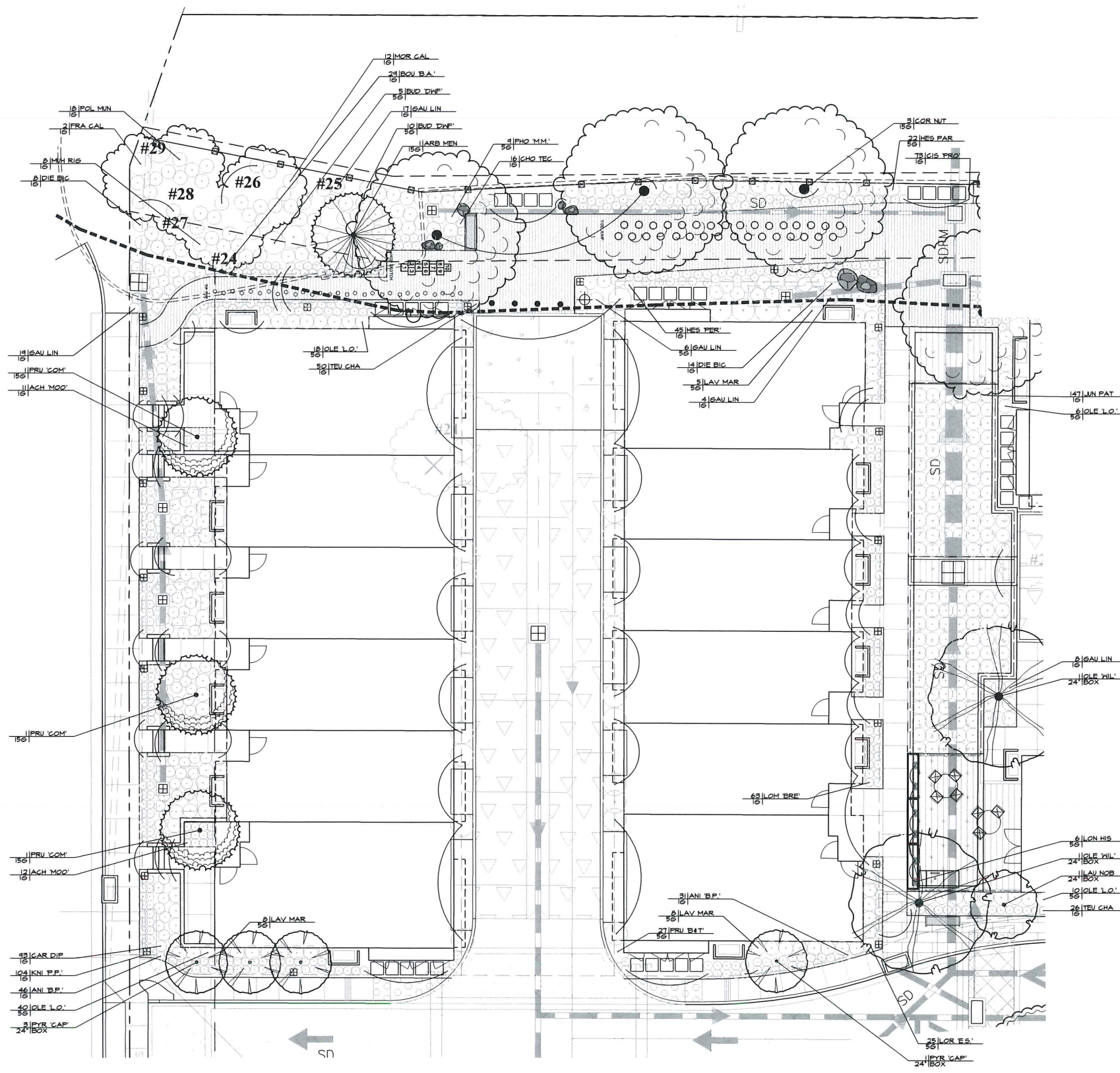
BIKE RACK



REMOVABLE BENCH



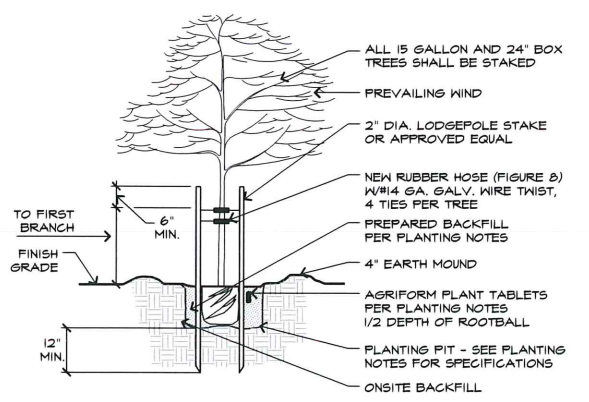
350 Merrydale Rd



PRELIMINARY PROPOSED PLANT PALETTE

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	EXISTING TREE TO BE REMOVED #XXX					
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	PRUNUS CAROLINIANA 'COMPACTA'	CAROLINA CHERRY	15 GALLON	15' WIDE/10' HIGH	LOW	13
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SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	WATER USE	QUANTITIES
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HES 'PAR'	HESPERALOE PARVIFLORA	RED YUCCA	5 GALLON	LOW	73
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LOM 'BRE'	LOMANDRA L. 'BREEZE'	DWARF MAT RUSH	1 GALLON	LOW	214
LOR 'E.S.'	LOROPETALUM 'EMERALD SNOW'	CHINESE FRINGE FLOWER	5 GALLON	LOW	94
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Lon 'HIS'	LONICERA HISPIDULA	HAIRY HONEYSUCKLE	5 GALLON	LOW	6
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JUN 'PAT'	JUNCUS PATENS	CALIFORNIA RUSH	1 GALLON	LOW	210



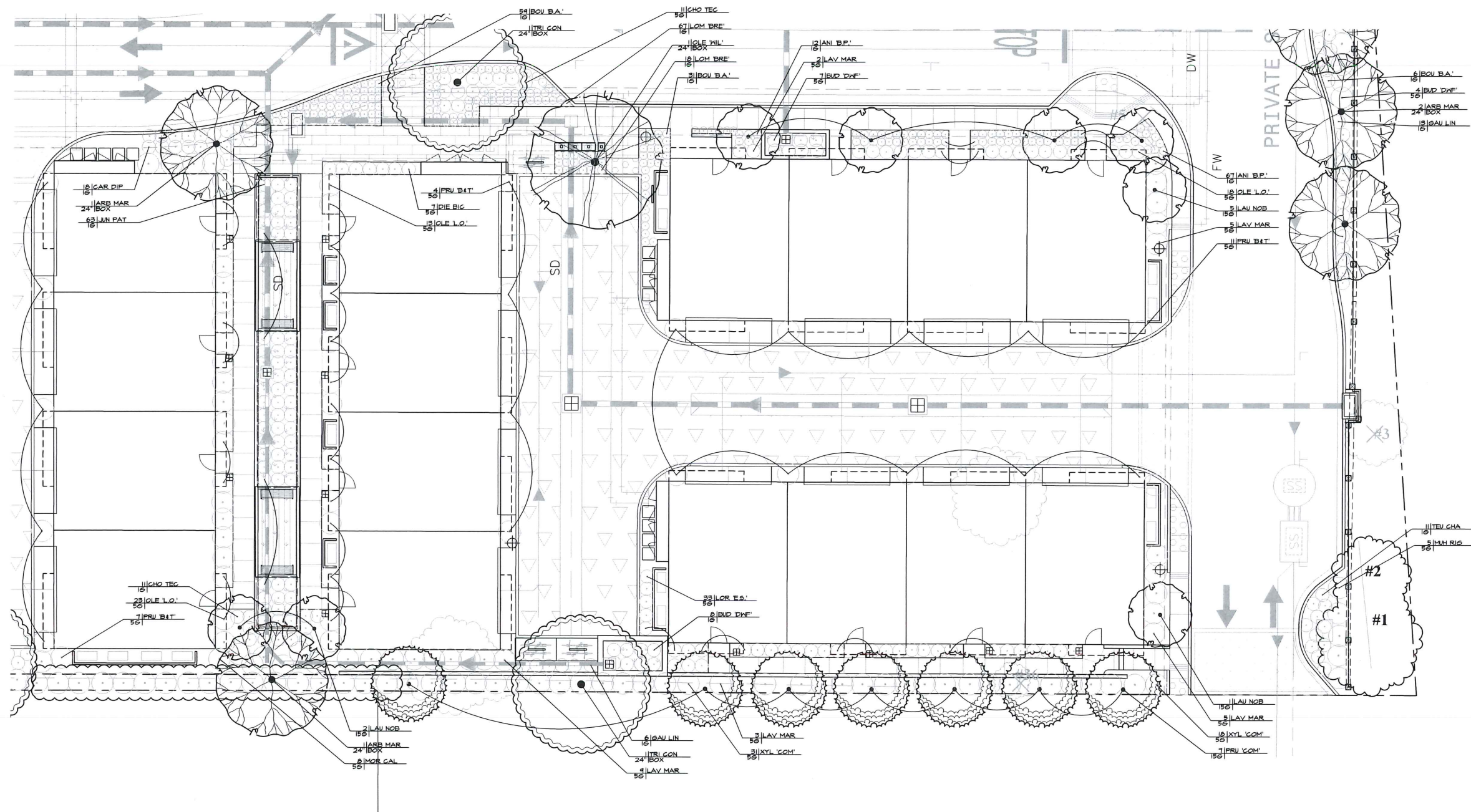
NOTE:
1. ROOT CONTROL BARRIER SHALL BE REQUIRED WHERE TREES IS WITHIN 10' FROM PAVING. ROOT SOLUTIONS ROOT BARRIER OR EQUAL MAY BE USED. LENGTH OF BARRIER TO BE CENTERED ON TREE.

PLANT CALLOUT SYMBOL KEY

PLANT QTY	PLANT SYMBOL
SIZE	UNITS

A TREE PLANTING AND STAKING DETAIL SCALE: 1/2" = 1'-0"
024 - TreePlanting





PLANT CALLOUT SYMBOL KEY

PLANT QTY SIZE	PLANT SYMBOL UNITS
10	CHO TEC
24	ASS MAR
63	LIN PAT
4	PRU BAT
7	DIE BIG
19	OLE L.O.
11	CHO TEC
22	OLE L.O.
7	PRU BAT
15	LAV NOB
24	ASS MAR
6	MOS CAL
33	LOR ES.
8	BUD DNF
6	SAU LIN
11	TEL CON
4	LAV MAR
12	ANI B.P.
1	COM BRE
24	BOX
11	CHO TEC
11	CHO TEC
1	COM BRE
24	BOX
18	CHO TEC
1	COM BRE
12	ANI B.P.
2	LAV MAR
1	BUD DNF
6	SAU LIN
15	LAV NOB
3	LAV MAR
18	XYL COM
7	PRU COM
6	BOU BA.
4	BUD DNF
2	ASS MAR
12	SAU LIN
11	TEL CHA
5	MH RIG

350 Merrydale Rd



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LAND PLANNING**
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CAMPUS PROPERTY GROUP

Preliminary Landscape Plan Planting Plan

San Rafael, California

OCTOBER, 2019

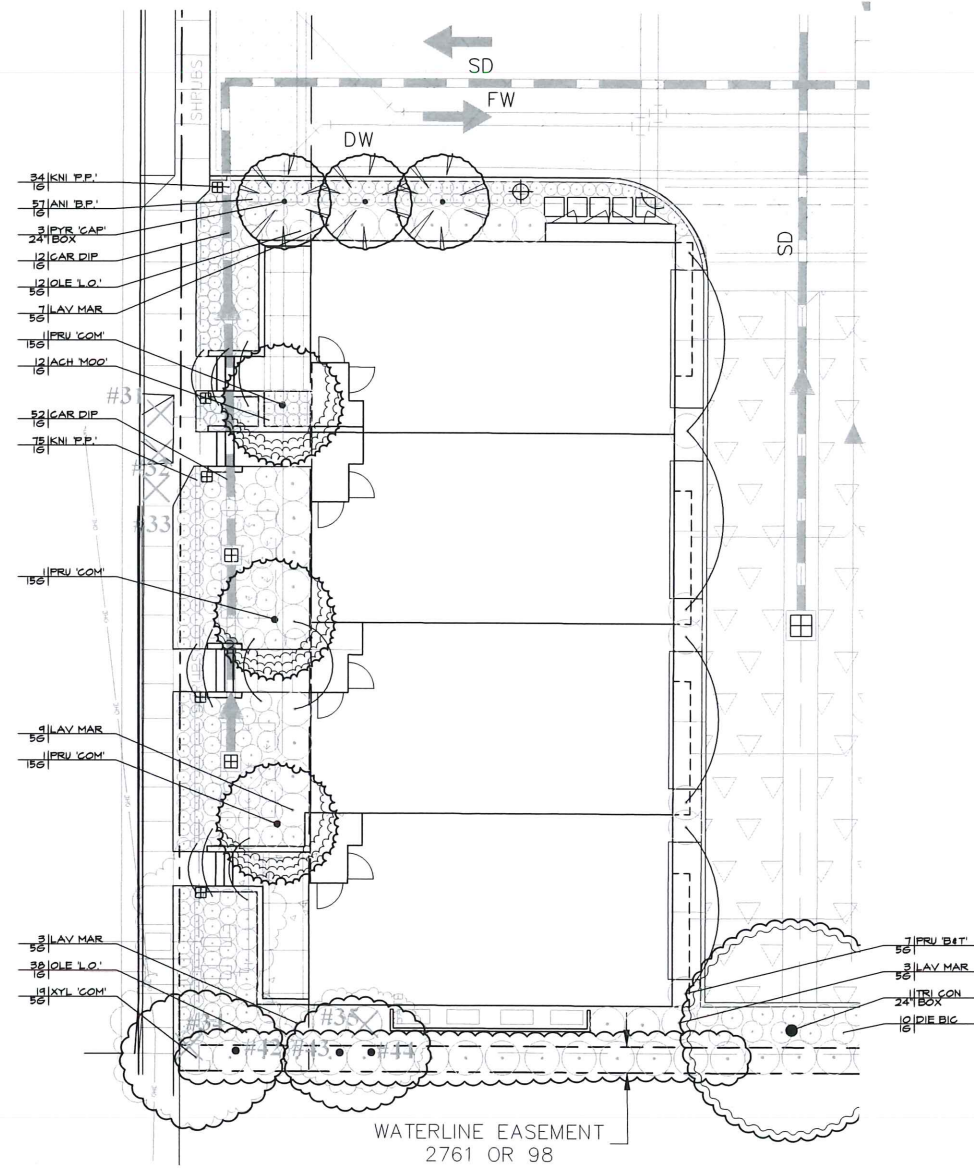
L8

PLANTING NOTES

1. THE CONTRACTOR SHALL MAINTAIN A QUALIFIED SUPERVISOR ON THE SITE AT ALL TIMES DURING CONSTRUCTION THROUGH COMPLETION OF PICK-UP WORK.
2. THE CONTRACTOR SHALL FURNISH AND PAY FOR ALL FORMS OF PLANT MATERIALS AND SPECIFIED INSTALLATIONS, INCLUDING FLATTED GROUNDCOVER.
3. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION AND STAKING ALL SEWER, UTILITY AND WATER MAIN LINES PRIOR TO PLANTING. LANDSCAPE CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR ANY COSTS INCURRED DUE TO DAMAGE AND REPLACEMENT OF SAID UTILITIES. CALL COMMON GROUND ALLIANCE (CGA) AT 811 TO LOCATE AND MARK UTILITIES PRIOR TO EXCAVATION.
4. SOIL PREPARATIONS: GROUNDCOVER AND TURF AREAS SHALL BE CROSSRIPPED OR TILLED TO A DEPTH OF NINE (9) INCHES. THE AMENDMENT SHALL BE UNIFORMLY BROADCAST PER 1,000 S.F. AND THOROUGHLY INCORPORATED TO A DEPTH OF 9" BY MEANS OF ROTOTILLER OR EQUAL. THE FOLLOWING FORMULA SHALL BE USED FOR BIDDING PURPOSES ONLY:
 6 CU.YDS. ORGANIC COMPOST
 35 LBS. 6-20-20 COMMERCIAL FERTILIZER
 50 LBS. IRON SULFATE (20% Fe)
5. BACKFILL FOR TREES AND SHRUBS: THE PLANTING PITS FOR TREES AND SHRUBS SHALL BE EXCAVATED TO TWICE THE DIAMETER AND TO THE DEPTH OF THE ROOTBALL. ON SITE SOIL SHALL BE USED FOR BACKFILL PURPOSES. THE FOLLOWING MIX SHALL BE USED FOR BIDDING PURPOSES ONLY:
 6 PARTS BY VOLUME ON SITE SOIL
 4 PARTS BY VOLUME ORGANIC AMENDMENT PER ABOVE
 2LB./CU.YD. OF MIX 6-20-20
 2LB./CU.YD. OF MIX IRON SULFATE PER CU.YD. OF MIX
6. ALL SOIL AMENDMENTS SPECIFIED ARE FOR BIDDING PURPOSES ONLY. ONCE SITE HAS BEEN ROUGH GRADED, CONTRACTOR SHALL OBTAIN A SOILS REPORT FROM WAYPOINT ANALYTICAL CALIFORNIA, INC. (408-727-0330) FOR SOIL AMENDMENTS. CONTRACTOR TO SUBMIT ONE COPY OF THE SOILS REPORT TO THE CITY, ONE COPY TO THE OWNER, AND ONE COPY TO THE LANDSCAPE ARCHITECT FOR USE IN PROVIDING UPDATED IRRIGATION SCHEDULING RECOMMENDATIONS TO BE INCLUDED PRIOR TO APPROVAL OF CERTIFICATE OF COMPLIANCE. CONTRACTOR SHALL FOLLOW THE SOIL PREPARATION AND BACKFILL MIX PER THE REPORT.
7. ALL 5 GALLON SHRUBS SHALL RECEIVE TWO (2) 21 GRAM AGRIFORM PLANTING TABLETS, ALL 15 GALLON TREES SHALL RECEIVE FOUR (4) 21 GRAM AGRIFORM PLANTING TABLETS AND ALL BOX TREES SHALL RECEIVE EIGHT (8) 21 GRAM AGRIFORM TABLETS.
8. ALL SHRUB AND GROUNDCOVER PLANTING AREAS SHALL BE MULCHED TO A MINIMUM DEPTH OF 3". MULCH TO BE RECYCLED WOOD WASTE, COLOR TO BE BLACK, 1/4" TO 1" DIAMETER FROM WASTE MANAGEMENT, INC., SACRAMENTO, (916-452-0142).
9. CONTRACTOR SHALL SPRAY ALL EXISTING WEEDS IN PLANTING AREAS PRIOR TO RIPPING AND APPLY PRE-EMERGENT TO ALL SHRUB AREAS AFTER PLANTING.
10. CONTRACTORS SHALL APPLY FERTILIZER AND PRE-EMERGENT AT END OF MAINTENANCE PERIOD.
11. LANDSCAPE ARCHITECT AND/OR OWNER RESERVES THE RIGHT TO SELECT OR REJECT ANY OR ALL PLANT MATERIAL.
12. REFER TO TREE PLANTING/STAKING DETAIL A, SHEET LP.3.
13. THIS PLAN COMPLIES WITH THE CRITERIA OF THE CITY'S WATER EFFICIENT LANDSCAPE ORDINANCE AND APPLIES THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLAN.

TREE REMOVAL

A TOTAL OF 43 MATURE TREES OF VARYING CONDITION ARE LOCATED ON THE PROJECT SITE AND (1) TREE THAT IS DEAD. ALL TREES HAVE BEEN PROPOSED FOR REMOVAL EXCEPT THE GROVE OF REDWOODS ON THE NORTHWEST (6) AND NORTHEAST (2) CORNERS OF THE PROJECT SITE, (3) IN THE SOUTHERN MOST CORNER OF THE PROPERTY LINE AND THE BISHOP PINES (2) AND COAST LIVE OAK (1) AT THE REDWOOD HIGHWAY ENTRY. THE TREES PROPOSED FOR REMOVAL ARE HIGHLIGHTED ON THE TREE INVENTORY. THERE IS A TOTAL OF 28 TREES PROPOSED FOR REMOVAL.



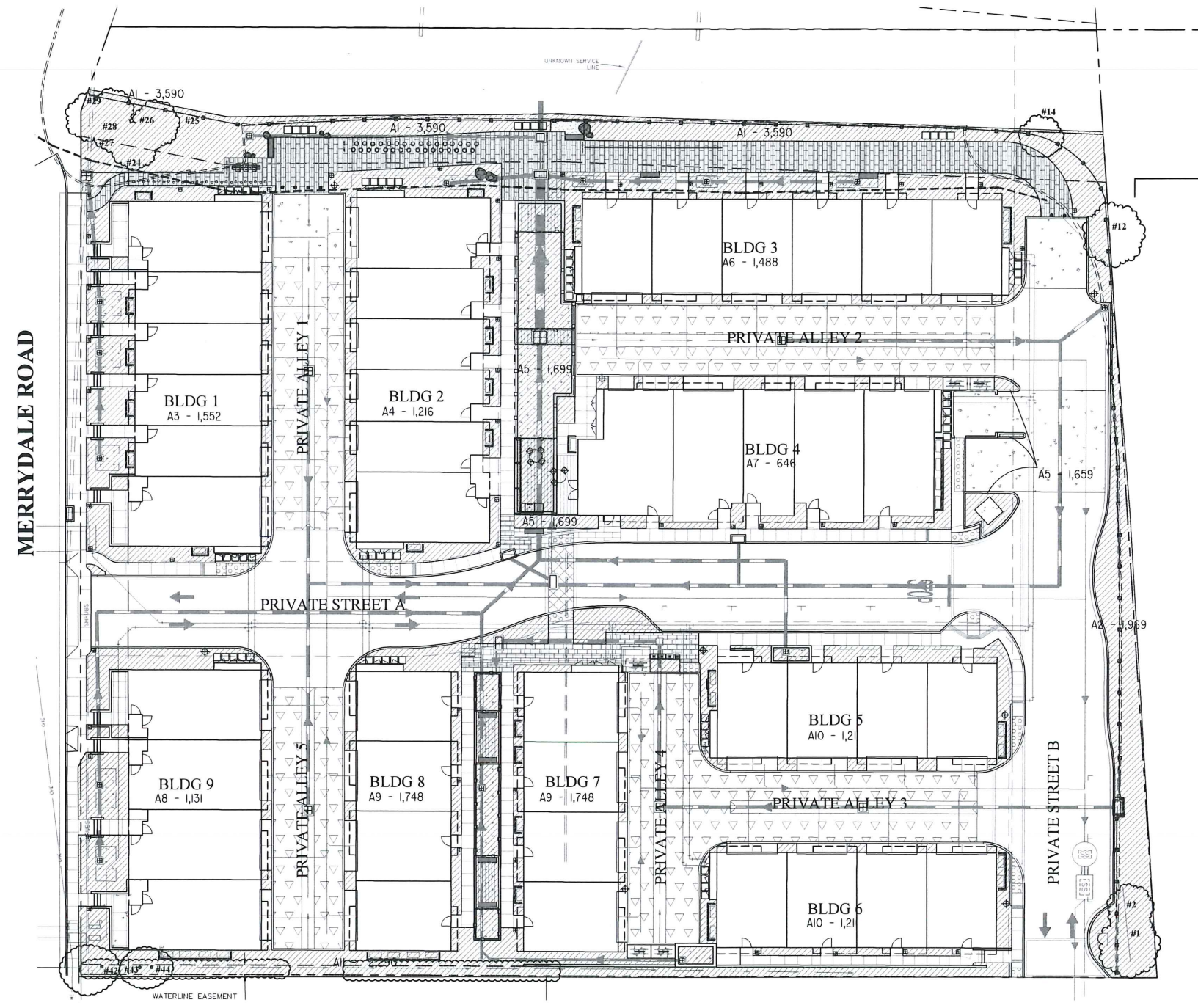
PRELIMINARY PROPOSED PLANT PALETTE

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	WATER USE	QUANTITIES
EXISTING TREE TO REMAIN					
#XXX	#XXX				
EXISTING TREE TO BE REMOVED					
#XXX	#XXX				
SPECIMEN TREES					
OLEA 'WILSONII'	WILSON OLIVE	24" BOX 25' WIDE/25' HIGH	LOW		3
TRISTANIA CONFERTA	BRISBANE BOX	24" BOX 25' WIDE/30-40' HIGH	LOW-MEDIUM		5
ACCENT TREES					
PYRUS C. 'CAPITAL'	CAPITAL PEAR	24" BOX 12' WIDE/25' HIGH	LOW		7
EVERGREEN TREES					
ARBUSUS MARINA	STRAWBERRY TREE	24" BOX 20' WIDE/30' HIGH	LOW		6
PRUNUS C. 'COMPACTA'	CAROLINA CHERRY	15 GALLON 15' WIDE/10' HIGH	LOW		13
LAURUS NOBILIS	SWEET BAY	24" BOX 15' WIDE/15' HIGH	LOW		10
BOARDWALK TREES					
ARBUSUS MENZIESII	MADRONE	15 GALLON 30' WIDE/30' HIGH	LOW		1
CORNUS NUTTALLII	PACIFIC DOGWOOD	15 GALLON 15' WIDE/15' HIGH	LOW		10
SHRUBS					
ACH 'MOO'	ACHILLEA X 'MOONSHINE'	MOONSHINE YARROW	1 GALLON	LOW	58
ANI 'B.P.'	ANIGOZANTHOS 'BUSH PEARL'	DWARF KANGAROO PAW	1 GALLON	LOW	238
BOU 'B.A.'	BOUTALOUA G. 'BLONDE AMBITION'	BLUE GRAMA GRASS	1 GALLON	LOW	144
BUD 'DWF'	BUDDLEJA D. 'DWARF VARIETY'	DWARF BUTTERFLY BUSH	5 GALLON	LOW	24
CHO 'TEC'	CHORONOPETALUM TECTORUM	CAPE RUSH	5 GALLON	LOW	38
CIS 'PRO'	CISTUS S. 'PROSTRATUS'	SAGELEAF ROCKROSE	1 GALLON	LOW	231
DIE 'BIC'	DIETES BICOLOR	FORTNIGHT LILY	1 GALLON	LOW	104
FRA CAL	FRANGULA CALIFORNICA	CALIFORNIA COFFEEBERRY	5 GALLON	LOW	2
GAU LIN	GAURA LINDHEIMERI	LINDHEIMER'S BEEBLOSSOM	1 GALLON	LOW	88
HES PAR	HESPERALOE PARVIFLORA	RED YUCCA	5 GALLON	LOW	73
HES 'PER'	HESPERALOE P. 'PERPA'	BRAKELIGHTS RED YUCCA	1 GALLON	LOW	219
KWI 'P.P.'	KNIPHOFIA 'PINEAPPLE POPSICLE'	RED HOT POCKER	1 GALLON	LOW	213
LAV MAR	LAVATERA MARITIMA	TREE MALLOW	5 GALLON	LOW	99
LOM 'BRE'	LOMANDRA L. 'BREEZE'	DWARF MAT RUSH	1 GALLON	LOW	214
LOR 'E.S.'	LOROPETALUM 'EMERALD SNOW'	CHINESE FRINGE FLOWER	5 GALLON	LOW	94
MOR CAL	MORELLA CALIFORNICA	CALIFORNIA WAX MYRTLE	1 GALLON	LOW	20
MUH RIG	MUHLENBERGIA RIGENS	DEER GRASS	5 GALLON	LOW	13
OLE 'L.O.'	OLEA E. 'LITTLE OLLIE'	DWARF OLIVE	5 GALLON	LOW	185
PHO 'M.M.'	PHORMIUM T. 'MADRI MAIDEN'	NEW ZEALAND FLAX	5 GALLON	LOW	9
POL MUN	POLYSTICHUM MUNITUM	WESTERN SWORD FERN	1 GALLON	LOW	18
PRU 'BBT'	PRUNUS 'BRIGHT & TIGHT'	BRIGHT & TIGHT LAUREL	5 GALLON	LOW	78
TEU CIA	TEUCHORIUM CHAMAEDRYS	GERMANDER	1 GALLON	LOW	16
XYL 'COM'	XYLOSMA C. 'COMPACTA'	COMPACT XYLOSMA	5 GALLON	LOW	72
VINES					
LON HIS	LONICERA HISPIDULA	HAIRY HONEYSUCKLE	5 GALLON	LOW	6
SHRUBS - BIO-RETENTION					
BUD 'DWF'	BUDDLEJA 'DWARF VARIETIES'	DWARF BUTTERFLY BUSH	1 GALLON	LOW	15
CAR DIP	CAREX DIPSACEA	AUTUMN SEDGE	1 GALLON	LOW	175
JUN PAT	JUNCUS PATENS	CALIFORNIA RUSH	1 GALLON	LOW	210

PLANT CALLOUT SYMBOL KEY

PLANT QTY	PLANT SYMBOL
SIZE	UNITS





WATER USE CALCULATIONS:

THE MAXIMUM APPLIED WATER ALLOWANCE (MAWA) IN GALLONS PER YEAR IS BASED ON THE FOLLOWING FORMULA:
 $MAWA = (ET \times 0.62 \times 0.55 \times LA)$

THE ESTIMATED TOTAL WATER USE (ETWU) IS THE SUM TOTAL OF ESTIMATED WATER USE FOR EACH HYDROZONE IN GALLONS PER YEAR AND IS BASED ON THE FOLLOWING FORMULA:
 $ETWU = (ET \times 0.62 \times (PF \times HA) + SLA)$

ETWU = (ET)(0.62)(PF X HA) + SLA

ET = REFERENCE EVAPOTRANSPIRATION (INCHES PER YEAR)
 LA = LANDSCAPE AREA
 HA = HYDROZONE AREA (SQUARE FEET)
 PF = PLANT FACTOR FROM WUCOLS
 IE = IRRIGATION EFFICIENCY (0.8)
 0.55 = ET ADJUSTMENT FACTOR
 0.62 = CONVERSION FACTOR (TO GALLONS)

REFERENCE EVAPOTRANSPIRATION (ET) : 35.8

MAXIMUM APPLIED WATER ALLOWANCE: 270,329 GAL/YR
 $MAWA = (35.8) \times (0.62) \times (0.55 \times 22,441) = 270,329 \text{ GAL/YR}$

ESTIMATED TOTAL WATER USE: 134,642 GAL/YR
 $LOW \text{ ETWU} = (35.8) \times (0.62) \times (0.20 \times 18,426) = 100,984 \text{ GAL/YR}$

HYDROZONE KEY

SYMBOL DESCRIPTION

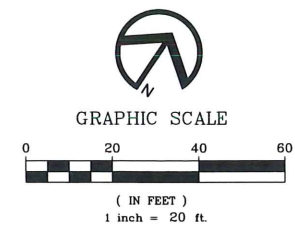
18,426 SF LOW WATER USE

HYDROZONE INFORMATION TABLE

HYDROZONE (WATER USE)	ZONE/ VALVE	IRRIQ. METHOD	AREA	% OF LANDSCAPE AREA
LOW	A-1	DRIP	3,590 SF	19.44%
LOW	A-2	DRIP	1,969 SF	10.66%
LOW	A-3	DRIP	1,552 SF	8.41%
LOW	A-4	DRIP	1,216 SF	6.59%
LOW	A-5	DRIP	1,659 SF	8.98%
LOW	A-6	DRIP	1,488 SF	7.9%
LOW	A-7	DRIP	572 SF	3.1%
LOW	A-8	DRIP	1,131 SF	6.12%
LOW	A-9	DRIP	1,748 SF	9.47%
LOW	A-10	DRIP	1,211 SF	6.56%
LOW	A-11	DRIP	2,290 SF	12.4%
TOTAL			18,426 SF	100%

HYDROZONES

NAME	TYPE	WATER USE	DESCRIPTION
360 MERRYDALE ROAD			
A-1	DRIP	LOW	SHRUBS-BETWEEN ACCESS ROAD PLAZA & EXISTING CREEK RIFF RAFF
A-2	DRIP	LOW	SHRUBS-MEDIAN ALONG PRIVATE ROAD 'B'
A-3	DRIP	LOW	SHRUBS-SURROUNDING BUILDING 1
A-4	DRIP	LOW	SHRUBS-SURROUNDING BUILDING 2
A-5	DRIP	LOW	SHRUBS-BIO RETENTION BASIN & FRONTAGE AT BUILDING 4
A-6	DRIP	LOW	SHRUBS-NORTHERN/EASTERN EXPOSURES-SOUTH SIDE OF TRAILER
A-7	DRIP	LOW	GROUNDCOVER-FERRY LAUNCH ROAD PARKWAY-SOUTHERN 1/3
A-8	DRIP	LOW	GROUNDCOVER-FERRY LAUNCH ROAD-PRIVATE PROPERTY
A-9	DRIP	LOW	SHRUBS-FERRY LAUNCH ROAD-SOUTHERN/WESTERN EXPOSURES
A-10	DRIP	LOW	TREES-FERRY LAUNCH ROAD-PUBLIC PARKWAY
A-11	DRIP	LOW	GROUNDCOVER-FERRY LAUNCH ROAD PARKWAY-MIDDLE 1/3
A-12	DRIP	LOW	SHRUBS-SHARED SPACE BETWEEN PROPERTY LINE & BUILDINGS 6,7,8&9



RIPLEY DESIGN GROUP

LANDSCAPE ARCHITECTURE
 LAND PLANNING
 1615 BONANZA STREET
 SUITE 314
 WALNUT CREEK, CA 94596
 TEL: 925.938.7377
 FAX: 925.938.7436

CAMPUS PROPERTY GROUP

Water Efficient Landscape Ordinance & Landscape Data

350 Merrydale Rd

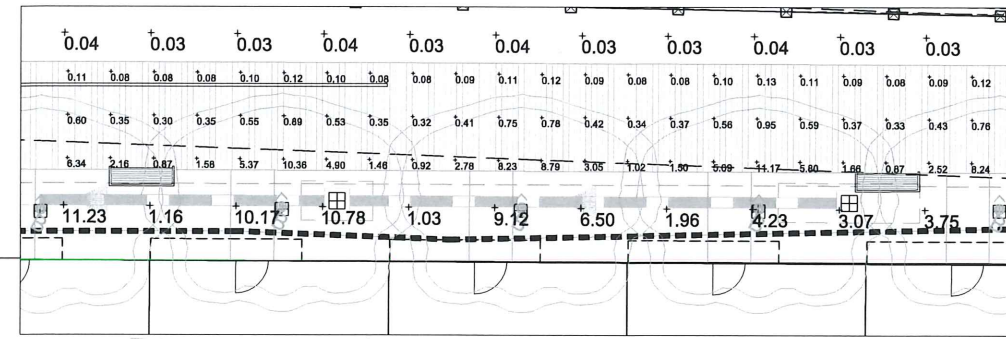
San Rafael, California

OCTOBER, 2019

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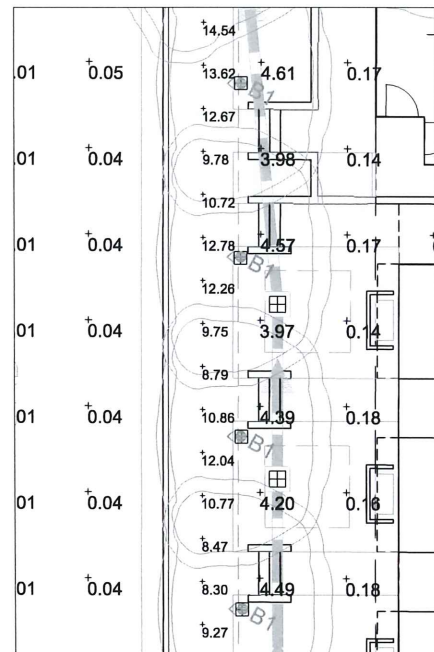
Luminaire Schedule											
Project: 350 MERRYDALE RD - 3RS SCHOOL SITE											
Symbol	Qty	Label	Arrangement	Lum. Lumens	LLF	LOD	LLD	UDF *	Description	Filename	Lum. Watts
	6	A	SINGLE	4308	0.807	0.900	0.944	0.950	STERNBERG SL660-12L30T2-MDL018-CA-BLOC - 12' L.C.	SL660-12L40T2-MDL018-CA-BLOC.IES *	59.5
	2	A1	SINGLE	4569	0.807	0.900	0.944	0.950	STERNBERG SL660-12L30T3-MDL018-CA-BLOC - 12' L.C.	SL660-12L40T3-MDL018-CA-BLOC.IES *	59.5
	9	B	SINGLE	2118	0.697	0.900	0.944	0.820	STERNBERG BL-3-SL360-FG-26L27T3-F-MDL03 - 2.75' L.C.	SL360-FG-26L45T3-F-MDL03.IES *	31.3
	40	B1	SINGLE	2134	0.697	0.900	0.944	0.820	STERNBERG BL-3-SL360-FG-26L27T2-F-MDL03 - 2.75' L.C.	SL360-FG-26L45T2-F-MDL03.IES *	31.3
	14	C	SINGLE	1799	0.850	0.900	0.944	N.A.	SIGNIFY GARDCO 111L-16L-350-NW-G2-3-VOLT - 10' M.H.	111L-16L-350-NW-G2-3.IES	18.4

* UDF FACTOR PRORATED TO SIMULATE 3000K & 2700K. PHOTOMETRY IS BASED ON 4000K & 4500K; PHOTOMETRY FOR 3000K & 2700K ARE NOT AVAILABLE AT THE TIME OF THIS ANALYSIS. FIELD RESULTS MAY VARY.

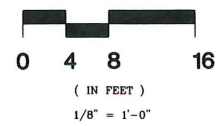


TYPICAL PATHWAY B
 0 4 8 16
 (IN FEET)
 1/8" = 1'-0"

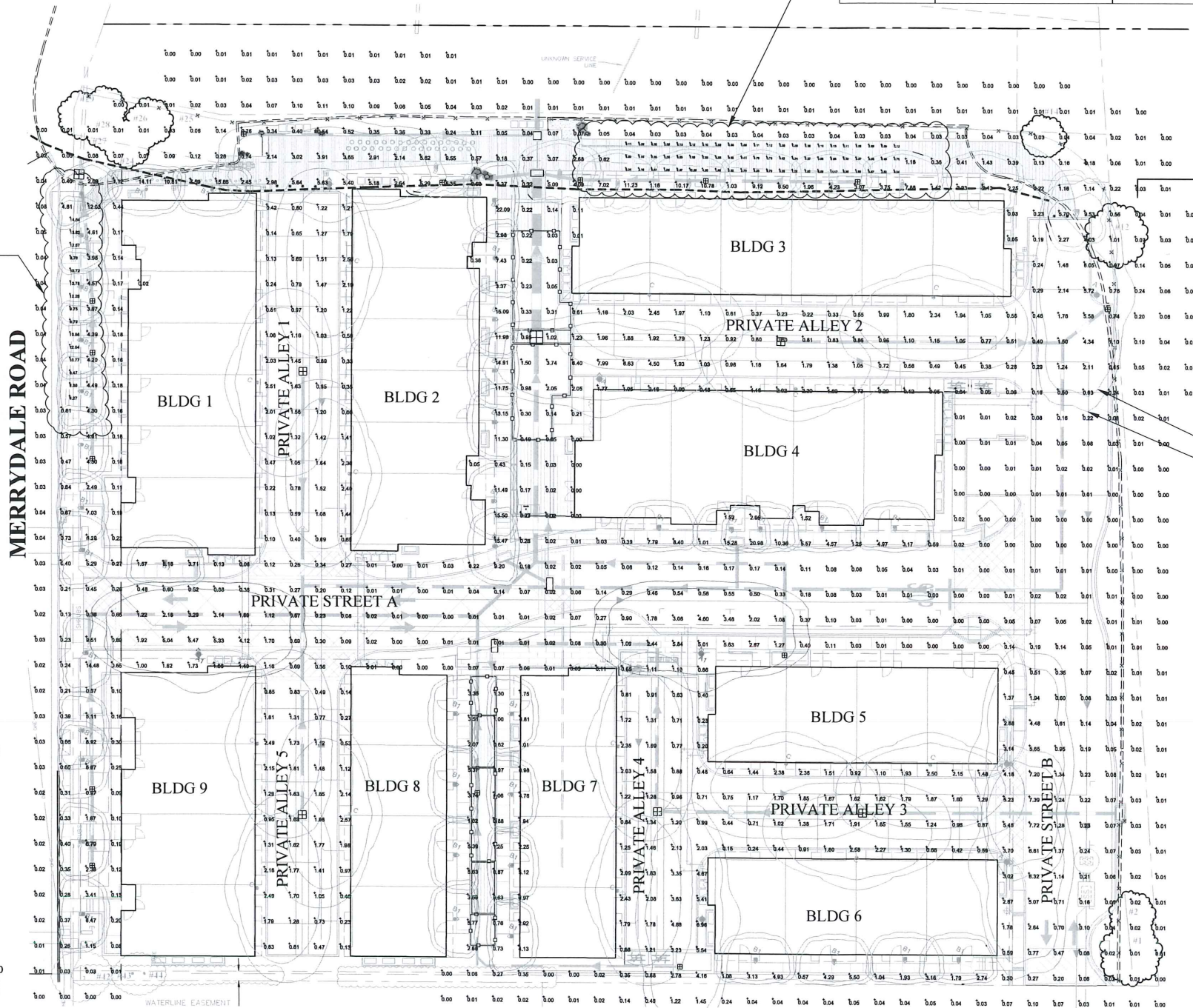
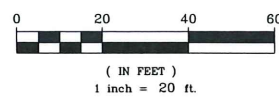
Calculation Summary							
Project: 350 MERRYDALE RD - 3RS SCHOOL SITE							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
TYPICAL PATHWAY A	Illuminance	Fc	10.97	14.54	8.30	1.32	1.75
TYPICAL PATHWAY B	Illuminance	Fc	1.64	11.17	0.08	20.50	139.63
PRIVATE STREET A	Illuminance	Fc	0.78	9.51	0.00	N.A.	N.A.



TYPICAL PATHWAY A



GRAPHIC SCALE



350 Merrydale Rd

San Rafael, California

OCTOBER, 2019

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