

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

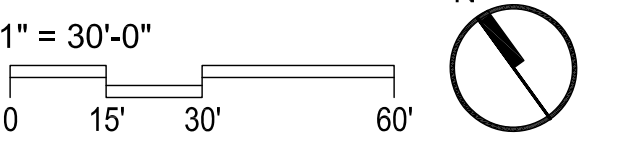
REVISIONS

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

REGISTRATION AND SIGNATURE



SCALE



SHEET TITLE

## GRADING PLAN

DRAWN BY:

CHECKED BY:

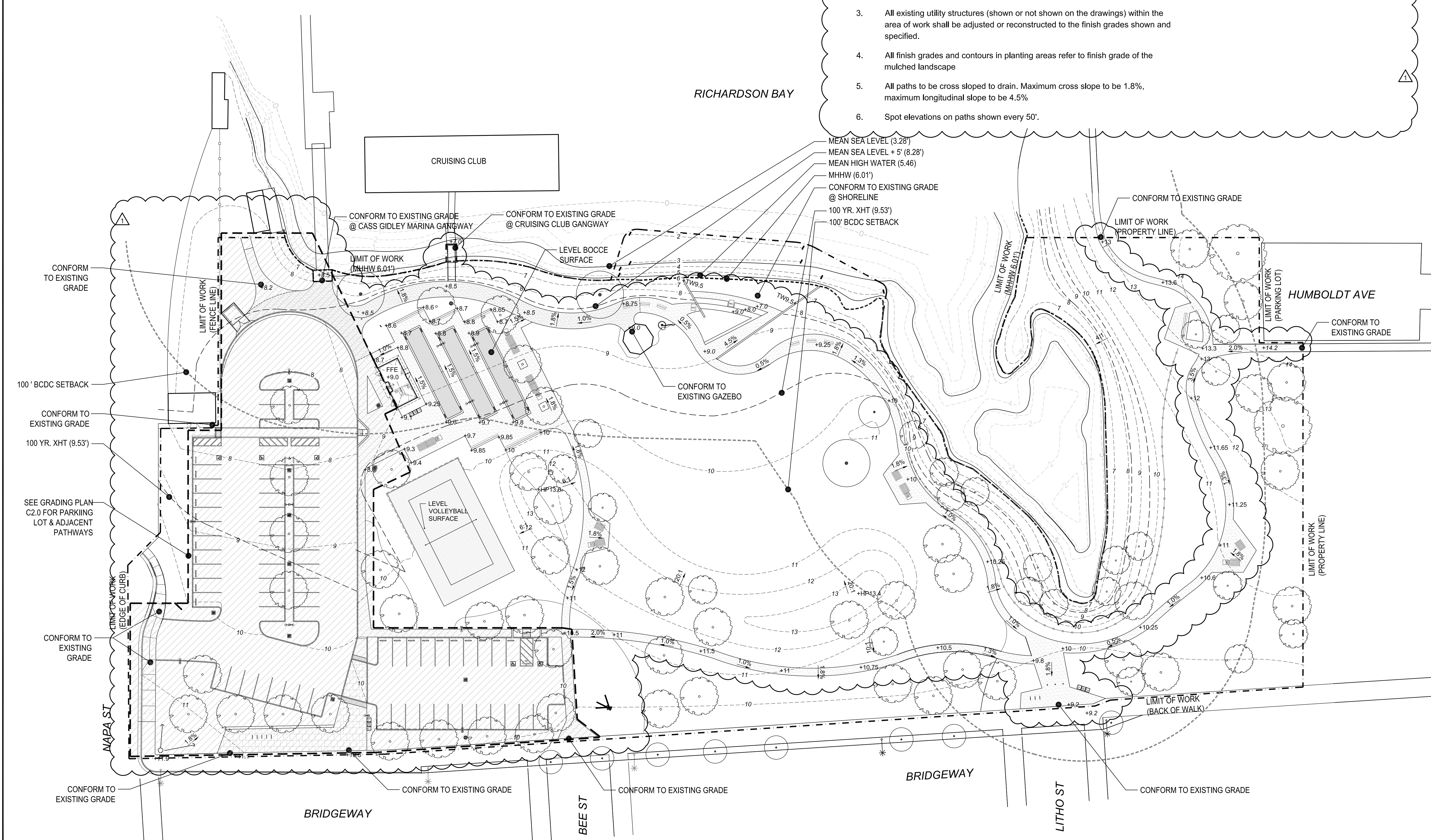
# L6.0

### Grading Notes

- The contractor is responsible for conforming to all improvements to the adjacent existing conditions with smooth transitions to avoid any abrupt or apparent changes in grades, cross slope, hazardous conditions, etc.
- Contractor to notify the owner's representative of any discrepancies between the design intent and existing conditions and any conflicting information regarding finish grades and elevations.
- All existing utility structures (shown or not shown on the drawings) within the area of work shall be adjusted or reconstructed to the finish grades shown and specified.
- All finish grades and contours in planting areas refer to finish grade of the mulched landscape
- All paths to be cross sloped to drain. Maximum cross slope to be 1.8%, maximum longitudinal slope to be 4.5%.
- Spot elevations on paths shown every 50'.

### GRADING LEGEND

- SEE GRADING PLAN C2.0
- PROPOSED CONTOUR
- EXISTING CONTOUR



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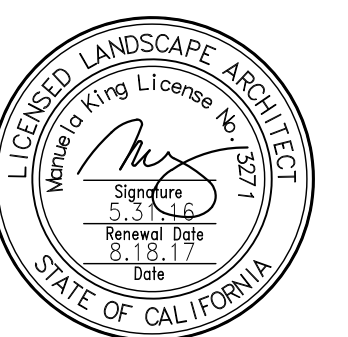
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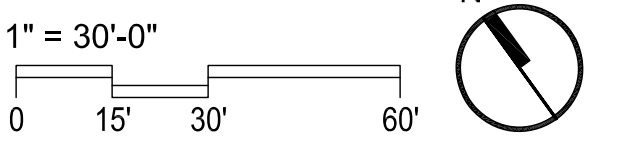
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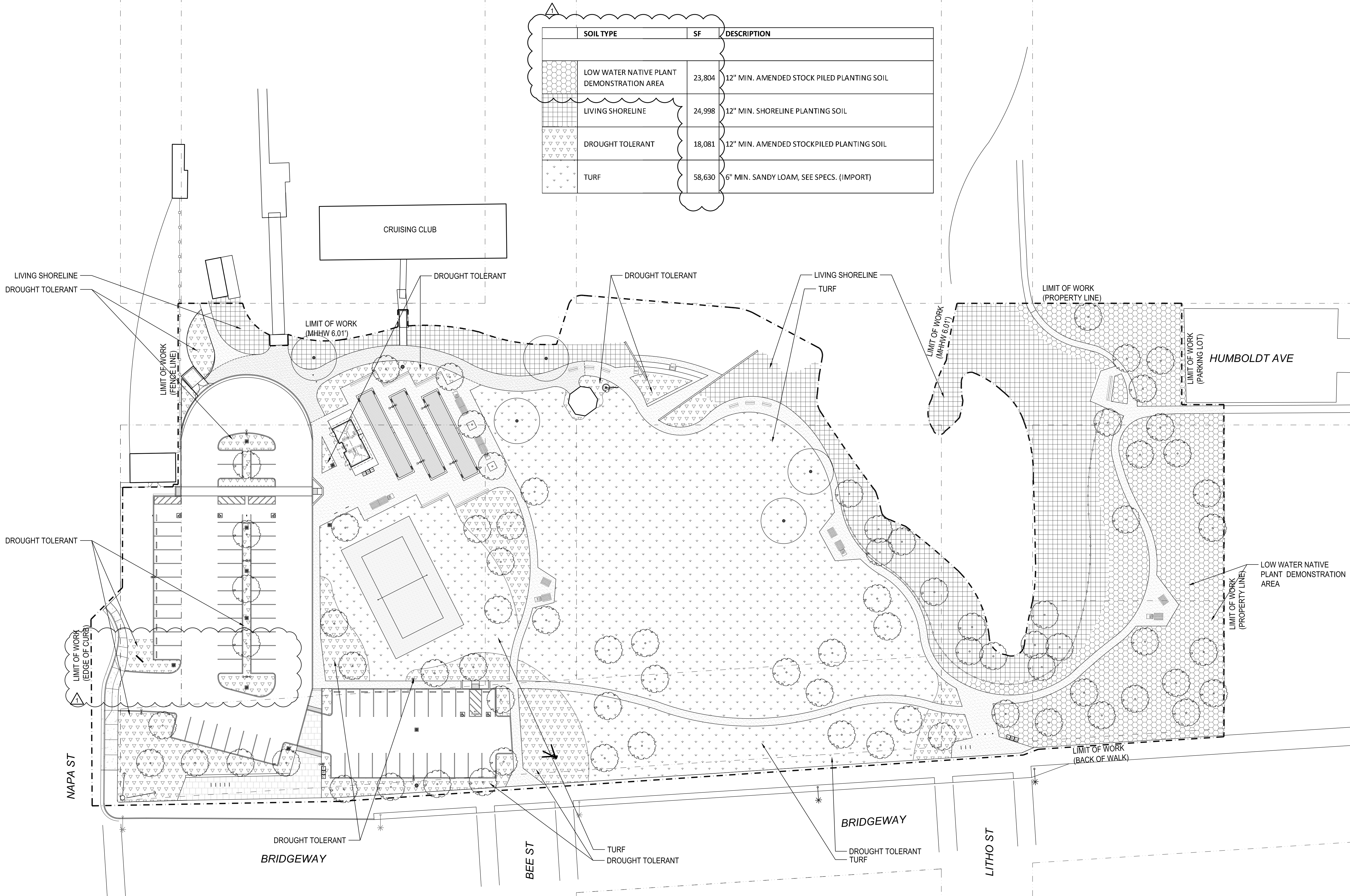
SHEET TITLE

## SOILS PLACEMENT PLAN

DRAWN BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_

# L7.0

SOIL TYPE	SF	DESCRIPTION
LOW WATER NATIVE PLANT DEMONSTRATION AREA	23,804	12" MIN. AMENDED STOCK PILED PLANTING SOIL
LIVING SHORELINE	24,998	12" MIN. SHORELINE PLANTING SOIL
DROUGHT TOLERANT	18,081	12" MIN. AMENDED STOCKPILED PLANTING SOIL
TURF	58,630	6" MIN. SANDY LOAM, SEE SPECS. (IMPORT)



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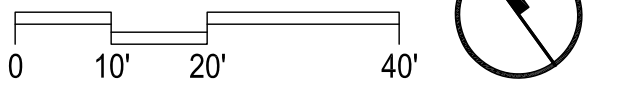
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SCALE

1" = 20'-0"



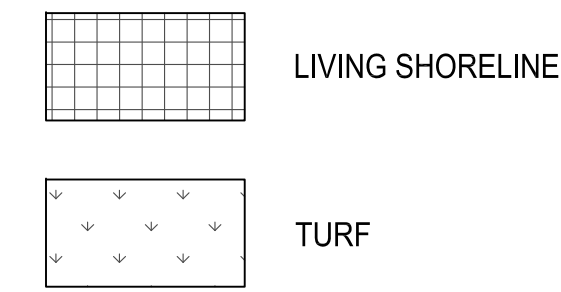
SHEET TITLE

## PLANTING PLAN\_Park East

DRAWN BY: CHECKED BY:

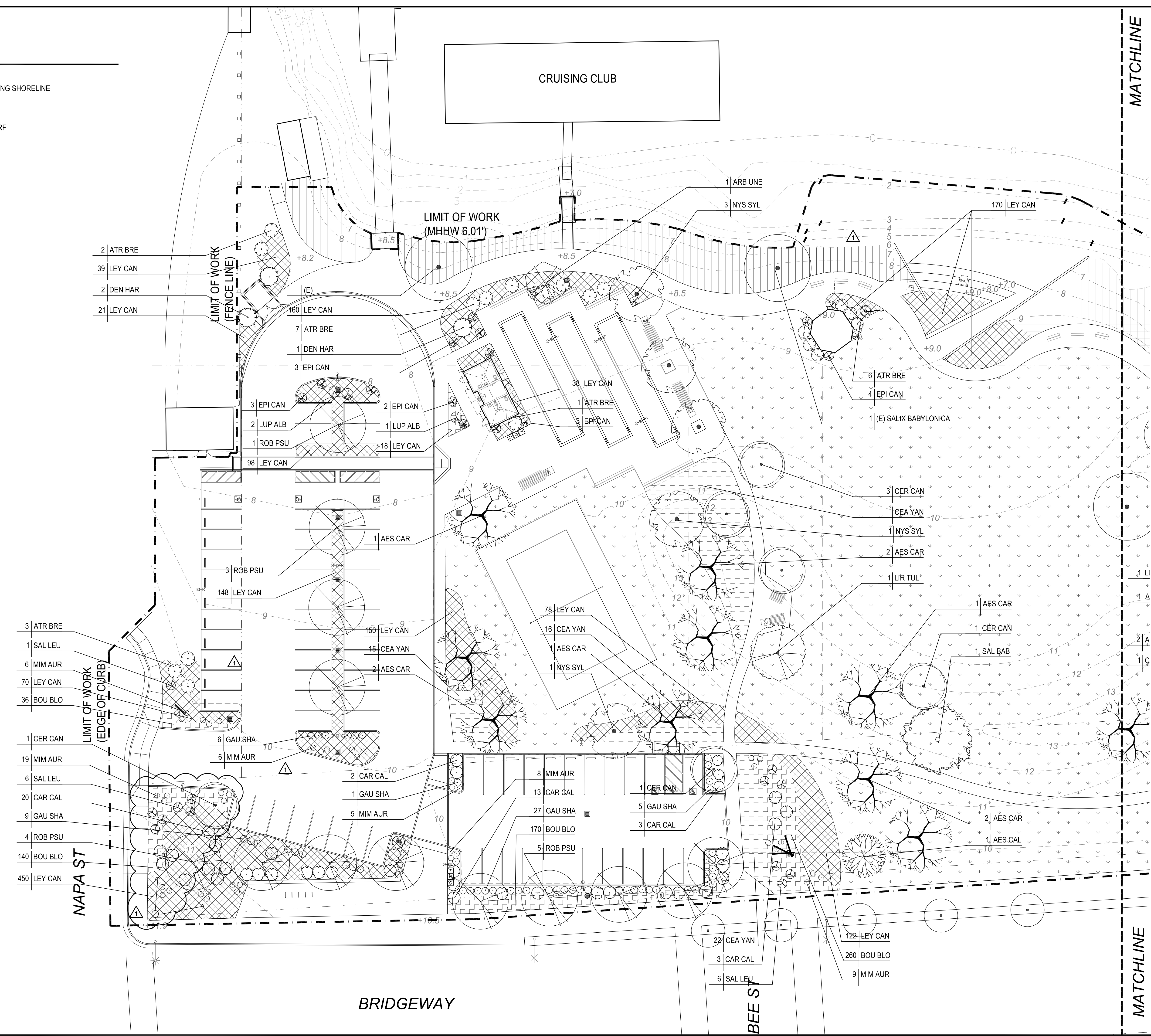
# L8.0

PLANTING LEGEND



LIVING SHORELINE

TURF



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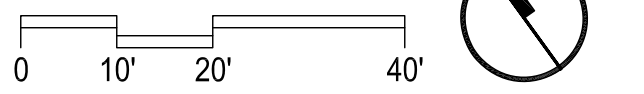
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1" = 20'-0"



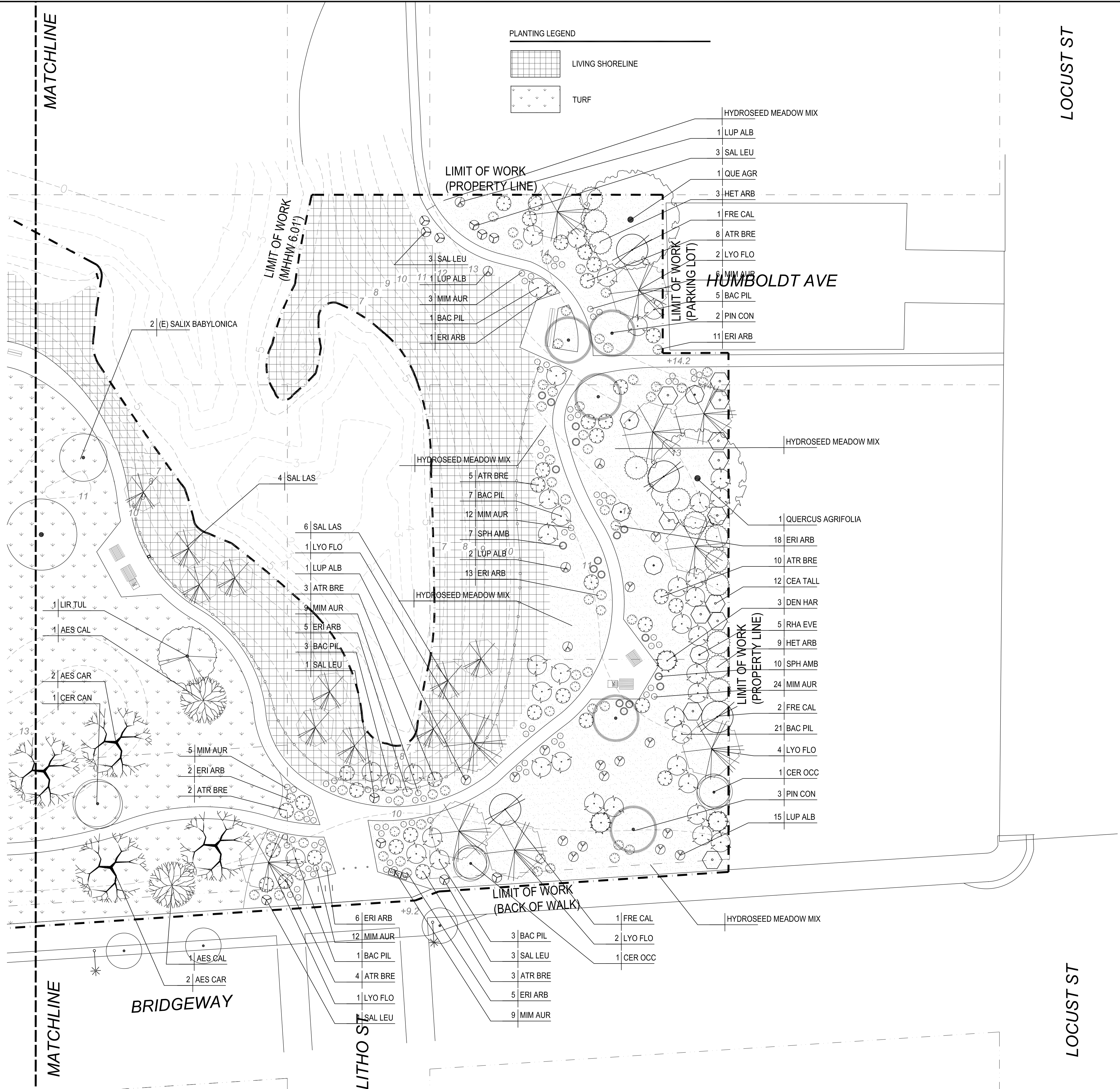
SHEET TITLE

## PLANTING PLAN\_Park West

DRAWN BY: CHECKED BY:

# L8.1

Date Plotted: 9/15/2017 4:01 PM



MATCHLINE

LOCUST ST

MATCHLINE

LOCUST ST

LIMIT OF WORK  
(MHHM 6.01)

LIMIT OF WORK  
(PROPERTY LINE)

LIMIT OF WORK  
(PARKING LOT)

HUMBOLDT AVE

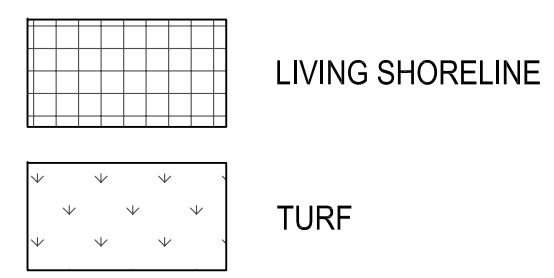
LIMIT OF WORK  
(PROPERTY LINE)

LIMIT OF WORK  
(BACK OF WALK)

BRIDGEWAY

LITHO ST

PLANTING LEGEND



HYDROSEED MEADOW MIX

1 LUP ALB

3 SAL LEU

1 QUE AGR

3 HET ARB

1 FRE CAL

8 ATR BRE

2 LYO FLO

1 MIM AUR

5 BAC PIL

2 PIN CON

11 ERI ARB

HYDROSEED MEADOW MIX

1 QUERCUS AGRIFOLIA

18 ERI ARB

10 ATR BRE

12 CEA TALL

3 DEN HAR

5 RHA EVE

9 HET ARB

10 SPH AMB

24 MIM AUR

2 FRE CAL

21 BAC PIL

4 LYO FLO

1 CER OCC

3 PIN CON

15 LUP ALB

HYDROSEED MEADOW MIX

1 FRE CAL

2 LYO FLO

1 CER OCC

2 (E) SALIX BABYLONICA

4 SAL LAS

6 SAL LAS

1 LYO FLO

1 LUP ALB

3 ATR BRE

9 MIM AUR

5 ERI ARB

3 BAC PIL

1 SAL LEU

5 MIM AUR

2 ERI ARB

2 ATR BRE

6 ERI ARB

12 MIM AUR

1 BAC PIL

4 ATR BRE

1 LYO FLO

1 SAL LEU

3 BAC PIL

3 SAL LEU

3 ATR BRE

5 ERI ARB

9 MIM AUR

+9.2

+14.2

-10

-10

+9.2

-10

-10

-10

-10

-10

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**PLANTING SCHEDULE**

DRAWN BY: CHECKED BY:

**L8.2**

SYMBOL	SCIENTIFIC	COMMON	HEIGHT	SPREAD	Native (y/n)	Water Use	Source	SIZE	SPACE	QTY
<b>SHRUB</b>										
☉	Atriplex lentiformis 'breweri'	Brewer Saltbush	5'-7'	6'-8'	Y	Low	BCDC	15G	SEE PLAN	54
-	Arctostaphylos densiflora 'Howard McMinn'	Howard McMinn Manzanita	6-10'	6-12'	Y	Low	FODP	15G	SEE PLAN	-
☉	Baccharis pilularis	Coyote Brush	3'-9'	3'-12'	Y	Low	FODP	5G	SEE PLAN	41
☉	Carpenteria californica	Bush Anemone	4'-6'	4'-6'	Y	Low	FODP	15G	SEE PLAN	41
☉	Ceanothus 'Cynthia Postan'	Cynthia Postan Wild Lilac	6'-8'	6'-8'	Y	Low	FODP	15G	SEE PLAN	12
☉	Dendromecon harfordii	Island Bush Poppy	8-12'	8-12'	Y	Low		15G	SEE PLAN	6
☉	Epilobium canum 'Catalina'	California fuchsia	3'-4'	4'-5'	Y	Very Low	BCDC	5G	SEE PLAN	17
☉	Eriogonum arborescens	Santa Cruz Island Buckwheat	2'-6'	3'-5'	Y	Low	BCDC	5G	SEE PLAN	64
-	Eriogonum latifolium	Coast Buckwheat	1'	3'	Y	Low	BCDC	5G	SEE PLAN	-
-	Eriogonum umbellatum	Sulphur Buckwheat	1'	3'	Y	Low		5G	SEE PLAN	-
☉	Fremontodendron californicum	Flannel Bush	15'-20'	10'-15'	Y	Low	BCDC	24" Box	SEE PLAN	4
☉	Gaultheria shallon	Salal	4'-10'	6'-12'	Y	Moderate	BCDC	15G	SEE PLAN	49
☉	Heteromeles arbutifolia	Toyon	6'-10'	6'-10'	Y	Low	FODP	15G	SEE PLAN	11
☉	Lupinus albusfrons	Silver Bush Lupine	5'	5'	Y	Low	BCDC	5G	SEE PLAN	23
☉	Mimulus aurantiacus	Sticky Monkey Flower	2'	2'-3'	Y	Low	BCDC	5G	SEE PLAN	133
☉	Rhamnus californica 'Eve Case'	Coffee Berry	4'-8'	4'-8'	Y	Low	BCDC	15G	SEE PLAN	5
☉	Salvia leucophylla	Purple Sage	2'-3'	3'-4'	Y	Low	BCDC	5G	SEE PLAN	24
☉	Sphaeralcea ambigua	Apricot Mallow	3'-4'	2'-3'	Y	Very Low		5G	SEE PLAN	17

<b>GRASS</b>										
	Bouteloua gracilis 'Blonde Ambition'	Blonde Ambition Gramma	2'	2'	Y	Low		1G	24" OC	624
	Leymus condensatus 'Canyon Prince'	Canyon Prince Wild Rye	4'	3'	Y	Low	BCDC	1G	30" OC	1607

<b>GROUND COVER</b>										
	Ceanothus 'Yankee Point'	Yankee Point Wild Lilac	2'-3'	8'-10'	Y	Low	FODP	5G	6' OC	125

<b>TURF</b>										
	Salt-tolerant Sod	Seashore Paspalum (alt = Red Molate Fescue)								62834 sqft

<b>LIVING SHORELINE</b>										
☉	Salix lasiolepis	Arroyo willow	less 30'	Less 30'	Y	Low	BCDC	24" Box	SEE PLAN	10
	Baccharis douglasii (glutinosa)	Marsh Baccharis	3'	3'	Y	Low	BCDC	15G	36" OC	313
	Limonium californicum	Sea Lavender	1'-2'	2'	Y	Low	BCDC	5G	24" OC	313
	Distichlis spicata	salt grass	1'		Y	Low	BCDC	Flats	24" OC	4063
	Dudleya farinosa	Bluff Lettuce	6"	1'	Y	Low	BCDC	1G	24" OC	313
	sarcocornia pacifica	pickleweed	1'-2'		Y	Low	BCDC	Flats	24" OC	625
	Spartina foliosa	cordgrass	1'-4'		Y	Low	BCDC	Flats	24" OC	625

<b>MEADOW GRASSES HYDROSEED MIX</b>			
SYMBOL	SCIENTIFIC NAME	COMMON NAME	QUANTITY
	HORDEUM CALIFORNICUM	CALIFORNIA BARLEY	23,804 SQ. FT.
	MELICA CALIFORNICA	CALIFORNIA ONIONGRASS	
	NASSELLA CERNUA	NODDING NEEDLEGRASS	
	NASSELLA PULCHRA	PURPLE NEEDLEGRASS	
	POA SECUNDA	NATIVE PINE BLUEGRASS	
	CLARKIA CONCINNA	RED RIBBONS	
	GILIA CAPITATA	BLUE-THIMBLE FLOWER	
	ESCHOLZIA	CALIFORNIA POPPY	
	LASTHENIA	GOLDFIELDS	
	LUPINE BICOLOR	MINATURE LUPINE	
	MADIA ELEGANS	COMMON MADIA	
	NEMOPHILA	BABY BLUE EYES	
	PHACELIA	CALIFORNIA DESERT BLUEBELLS	

NOTES:  
 1. APPLY MEADOW GRASSES HYDROSEED MIX AT 40 LBS/ACRE

TYPE	SCIENTIFIC	COMMON	HEIGHT	SPREAD	NATIVE (y/n)	WATER USE	SOURCE	SIZE	QTY
<b>TREES</b>									
☉	Aesculus californica	California Buckeye	15'-30'	15'-30'	Y	Low	BCDC	36" Box	3
☉	Aesculus x carnea	Red Horse Chestnut	to 30'	to 20'	N	Moderate		36" Box	13
☉	Arbutus unedo	Strawberry Tree	15'-30'	15'-30'	N	Low	FODP	24" Box	1
☉	Cercis canadensis	Eastern Redbud	20'-30'	20'-30'	N	Moderate		24" Box	7
☉	Cercis occidentalis	Western Redbud	10'-15'	10'-15'	Y	Low	BCDC	24" Box	2
☉	Liriodendron tulipifera	Tulip Tree	to 60'	to 30'	N	Moderate		36" Box	2
☉	Lyonothamnus floribundus 'aspenifolius'	Catalina Is. Ironwood	25'-35'	15'	Y	Low	FODP	24" Box	10
☉	Nyssa Sylvatica	Sour Gum, Tupelo	25'-35'	20'-30'	N	Moderate		36" Box	5
☉	Pinus contorta var. 'contorta'	Shore Pine	20'-30'	20'-30'	Y	Low	BCDC	24" Box	5
☉	Robinia pseudoacacia	Black Locust	40'-50'	30'-40'	N	Moderate		24" Box	13
☉	Salix babylonica	Weeping Willow	30'-45'	30'-45'	N	Moderate	FODP	36" Box	1
☉	Salix lasiolepis	Arroyo willow	less 30'	Less 30'	Y	Low	BCDC	24" Box	10
☉	Quercus agrifolia	Coast Live Oak	30'-45'	30'-45'	Y	Low	FODP	36" Box	2

**Planting Notes**

- Trees and plants have been selected for the local conditions and are drought tolerant.
- All soil and subsoil to be tested by an approved accredited soil testing laboratory.
- Landscape architect to inspect planting layout prior to installation. Contractor to provide 10'x10' mockup of all plant mixes for approval by landscape architect.
- All planting areas, planters, and pots to receive 3" of organic mulch.

TREES



**ROBINIA PSUEDOACACIA**  
BLACK LOCUST  
40'H x 30'W



**LIRIODENDRON TULIPIFERA**  
TULIP TREE  
50'H x 25'W



**ARBUTUS UNEDO**  
STRAWBERRY TREE  
20'H x 15'W



**AESCULUS CALIFORNICA**  
CALIFORNIA BUCKEYE  
20'H x 20'W



**SALIX BABYLONICA**  
WEEPING WILLOW  
30'H x 30'W



**SALIX LASIOLEPIS**  
ARROYO WILLOW  
30'H x 30'W



**LYONOTHAMNUS FLORIBUNDUS ASPLENIFOLIUS**  
CATALINA ISLAND IRONWOOD  
30'H x 15'W



**CERCIS CANADENSIS**  
EASTERN REDBUD  
25'H x 25'W



**AESCULUS X CARNEA**  
HORSE-CHESTNUT  
30'H x 20'W



**QUERCUS AGRIFOLIA**  
COAST LIVE OAK  
40'H x 40'W



**PINUS CONTORTA VAR. CONTORTA**  
SHORE PINE  
25'H x 20'W



**CERCIS OCCIDENTALIS**  
WESTERN REDBUD  
15'H x 15'W



**ALNUS RUBRA**  
RED ALDER  
40'H x 25'W

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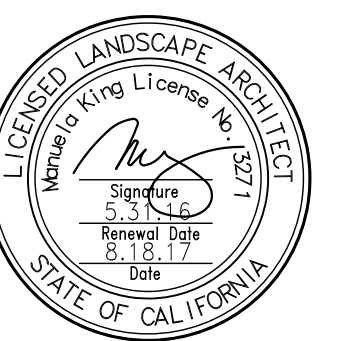
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**PLANTING  
PALETTE**

DRAWN BY: CHECKED BY:

**L8.3**

**LARGE SHRUBS**



**LUPINUS ALBIFRONS**  
SILVER BUSH LUPINE  
5'H x 5'W



**GAUTHERIA SHALLON**  
SALAL  
7'H x 9'Wt



**CEANOTHUS 'CYNTHIA POSTAN'**  
CYNTHIA POSTAN WILD LILAC  
7'H x 7'W



**BACCHARIS PILULARIS**  
COYOTE BRUSH  
6'H x 8'W



**ATRIPLEX LENTIFORMIS 'BREWERII'**  
BREWER SALTBUSH  
6'H x 8'W



**RHAMNUS CALIFORNICA 'EVE CASE'**  
EVE CASE COFFEE BERRY  
6'H x 6'Wt



**HETEROMELES ARBUTIFOLIA**  
TOYON  
8'H x 8'W



**DENDROMECON HARFORDII**  
ISLAND BUSH POPPY  
10'H x 10'W



**CARPENTERIA CALIFORNICA**  
BUSH ANEMONE  
6'H x 5'W



**ARCTOSTAPHYLOS DENSIFLORA 'HOWARD MCMINN'**  
HOWARD MCMINN MANZANITA  
8'H x 10'W

**NATIVE HABITAT RESTORATION AREA**

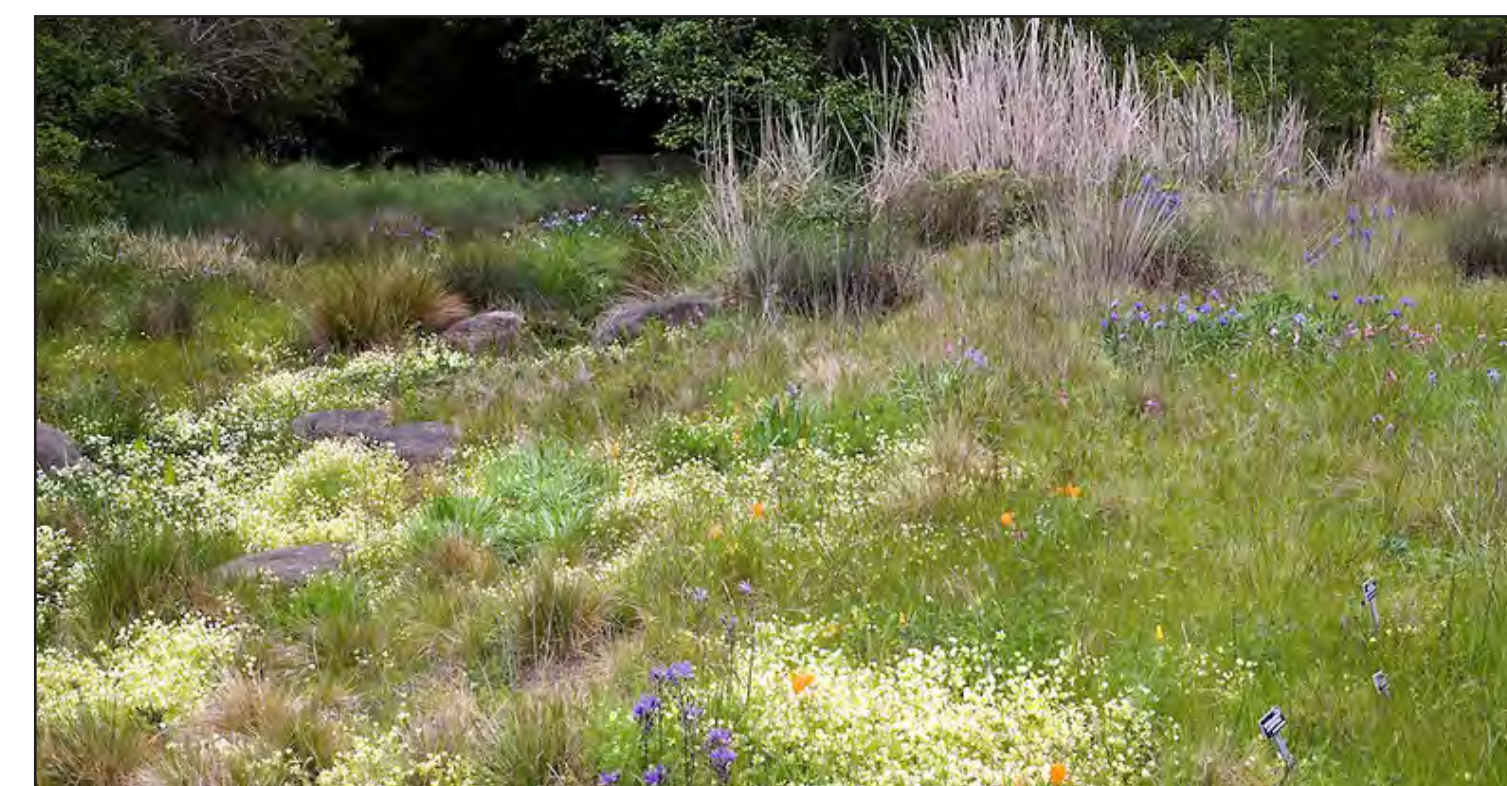


MEDIUM & SMALL SHRUBS  
ERIOGONUM ARBORESCENS, SANTA CRUZ ISLAND BUCKWHEAT  
ERIOGONUM LATIFOLIUM, COAST BUCKWHEAT  
ERIOGONUM UMBELLATUM, SULPHUR BUCKWHEAT  
MIMULUS AURANTICUS, STICKY MONKEY FLOWER  
SALVIA LEUCOPHYLLA, PURPLE SAGE  
SPHAERALCEA AMBIGUA, APRICOT MALLOW

HERBACEOUS PERENNIALS  
ACHILLEA MILLEFOLIUM, YARROW  
DICHELOSTEMMA IDA-MAIA, FIRECRACKER FLOWER  
ESCHSCHOLZIA CALIFORNICA, CALIFORNIA POPPY  
IRIS DOUGLASIANA, DOUGLAS IRIS  
SOLIDAGO CALIFORNICA, CALIFORNIA GOLDENROD  
VERBENA GOODINGII, PINK VERBENA

GRASSES  
BOUTELOUA GRACILIS, BLONDE AMBITION GRAMMA GRASS  
CAREX PANSA, DUNE SEDGE  
CAREX DIVULSA, BERKELEY SEDGE  
DESCHAMPSIA CESPITOSA VAR HOLCIFORMIS  
FESTUCA RUBRA, CREEPING RED FESCUE  
LEYMUS CONDENSATUS 'CANYON PRINCE', CANYON PRINCE RYE

\*ALSO SEE LARGE SHRUBS ABOVE.



**LIVING SHORELINE**



SHRUBS  
ATRIPLEX LENTIFORMIS 'BREWERII', BREWER SALTBUSH  
BACCHARIS DOUGLASHII, MARSH BACCHARIS  
BACCHARIS PILULARIS, COYOTE BRUSH  
LIMONIUM CALIFORNICUM, SEA LAVENDER

GRASSES  
DISTICHLIS SPICATA, SALT GRASS  
SPARTINA FOLIOSA, CORDGRASS

SUCCULENTS  
DUDLEYA FARINOSA, BLUFF LETTUCE  
SARCOCORNIA PACIFICA, PICKLEWEED



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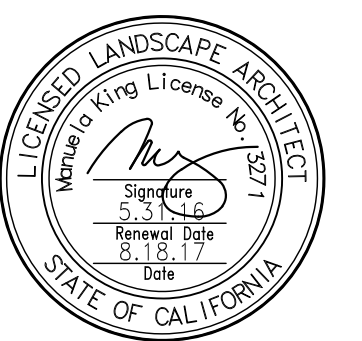
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**PLANTING  
PALETTE**

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**L8.4**

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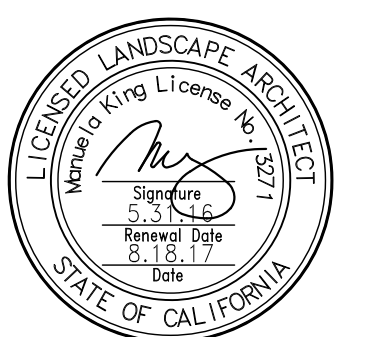
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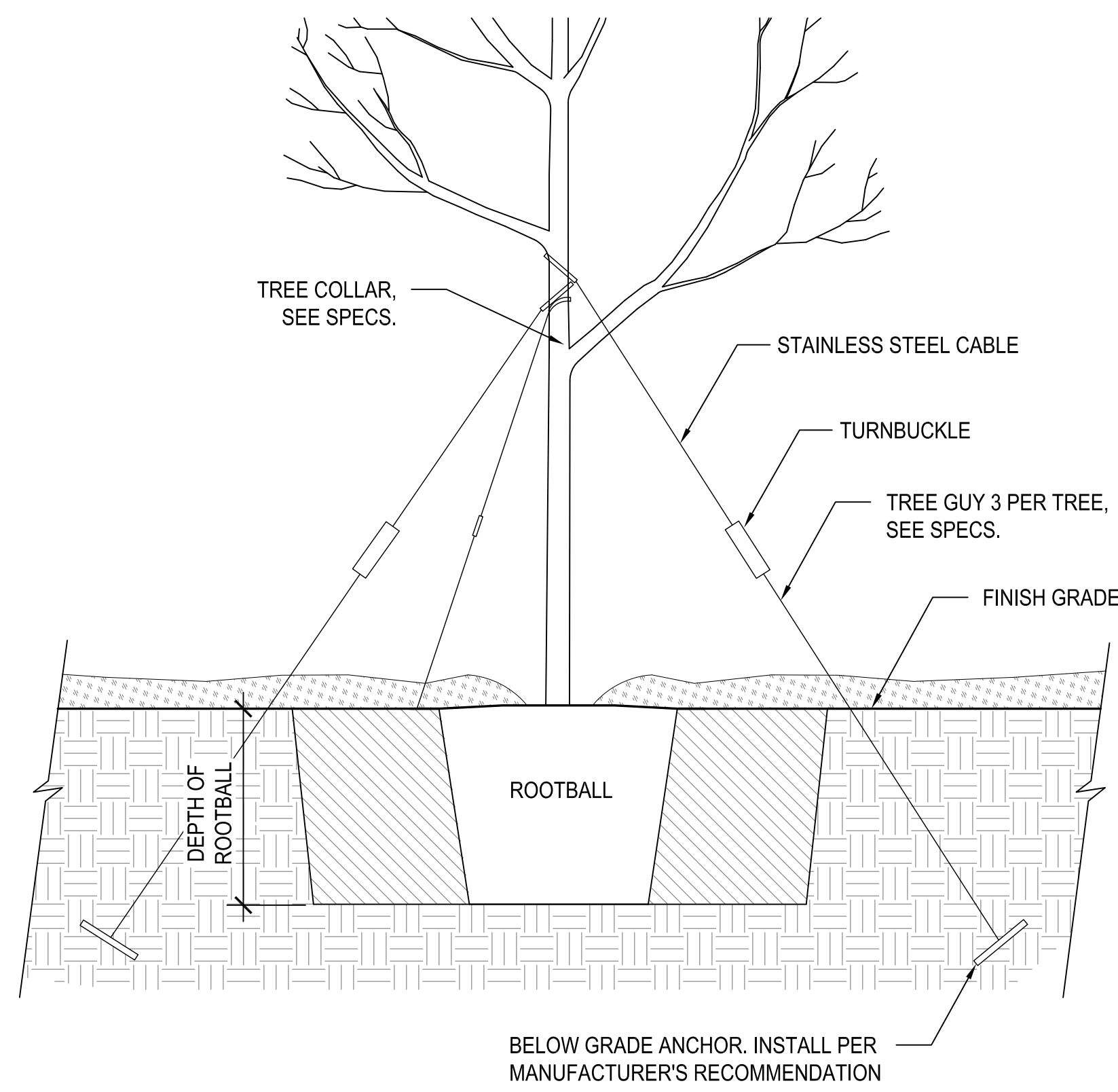


SHEET TITLE

## PLANTING DETAILS

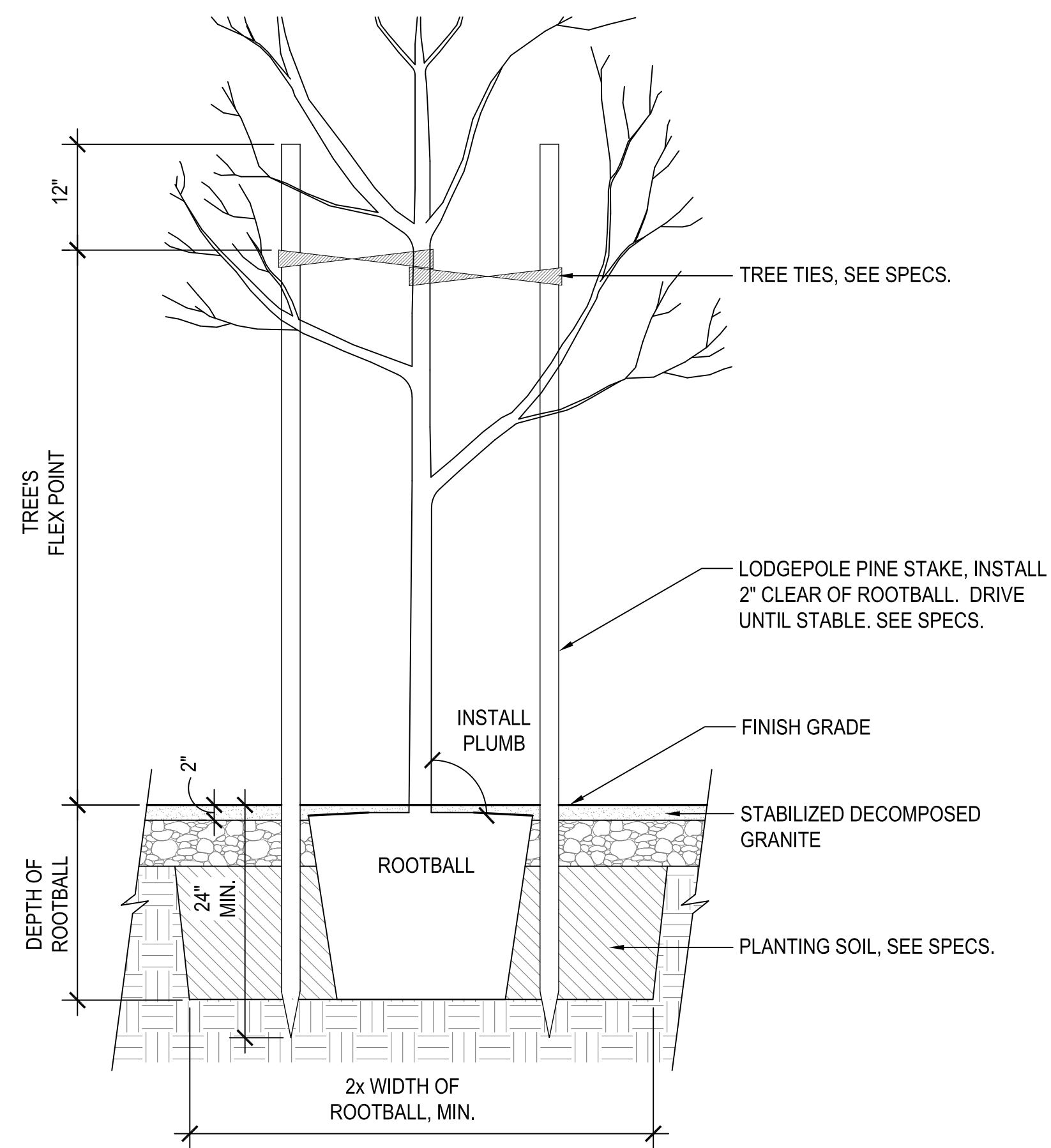
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# L8.5



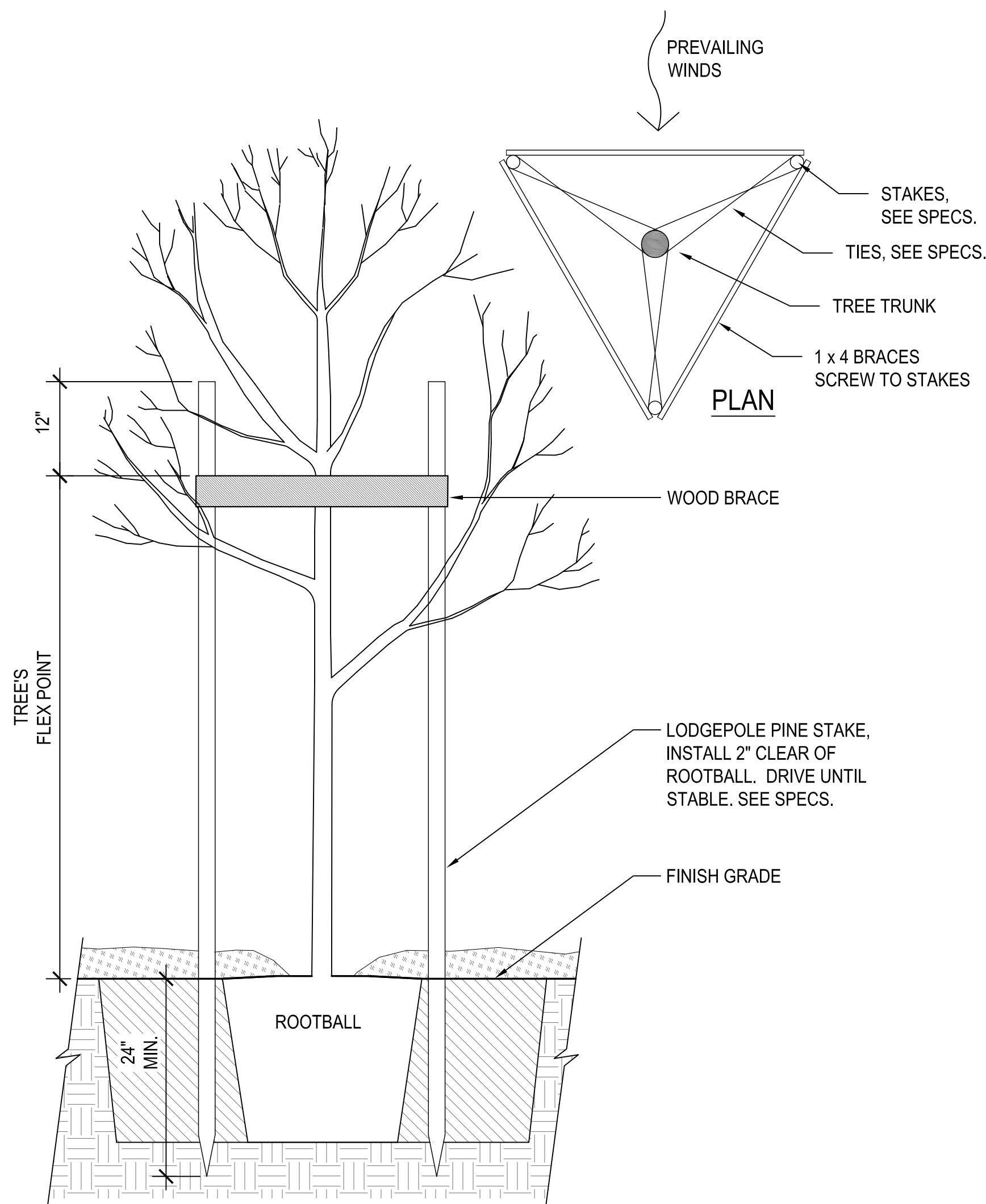
### 6 TREE GUYING

NTS



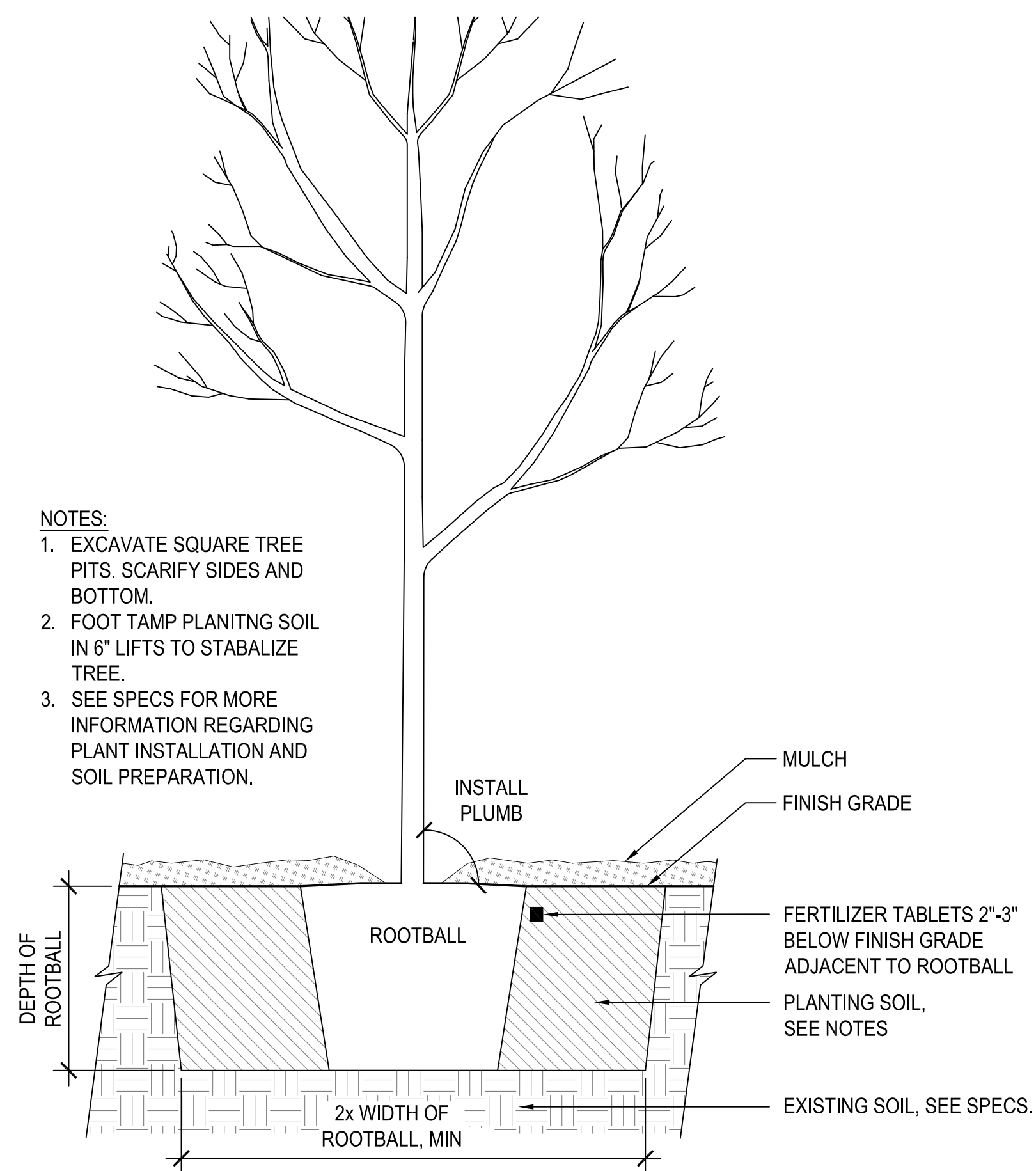
### 4 TREE AT DECOMPOSED GRANITE

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



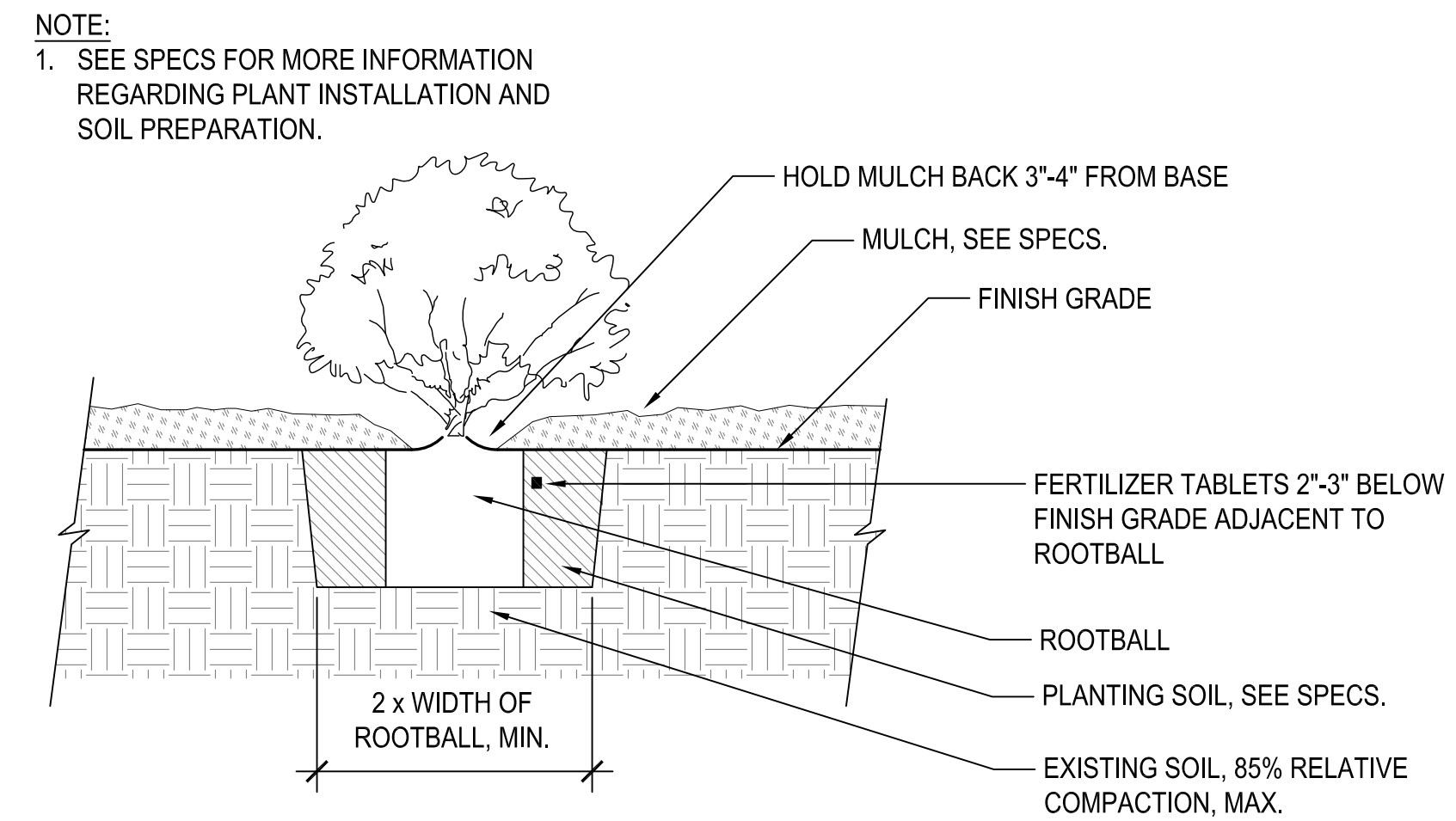
### 7 TREE STAKING

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



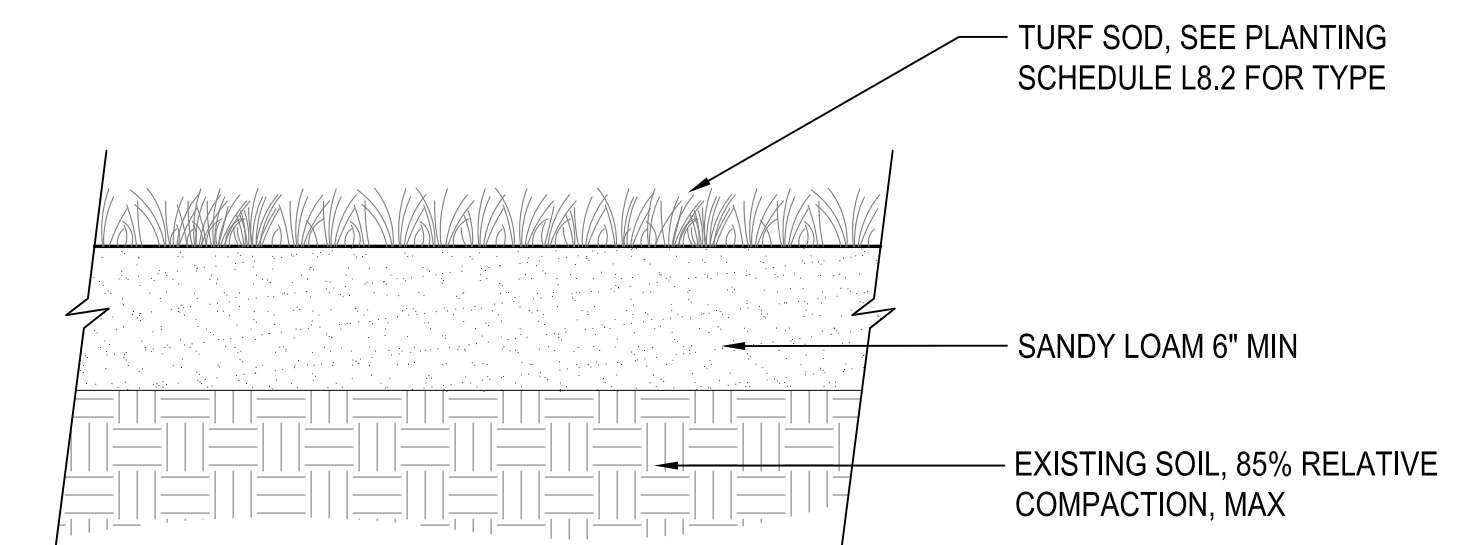
### 5 TREE PLANTING

NTS



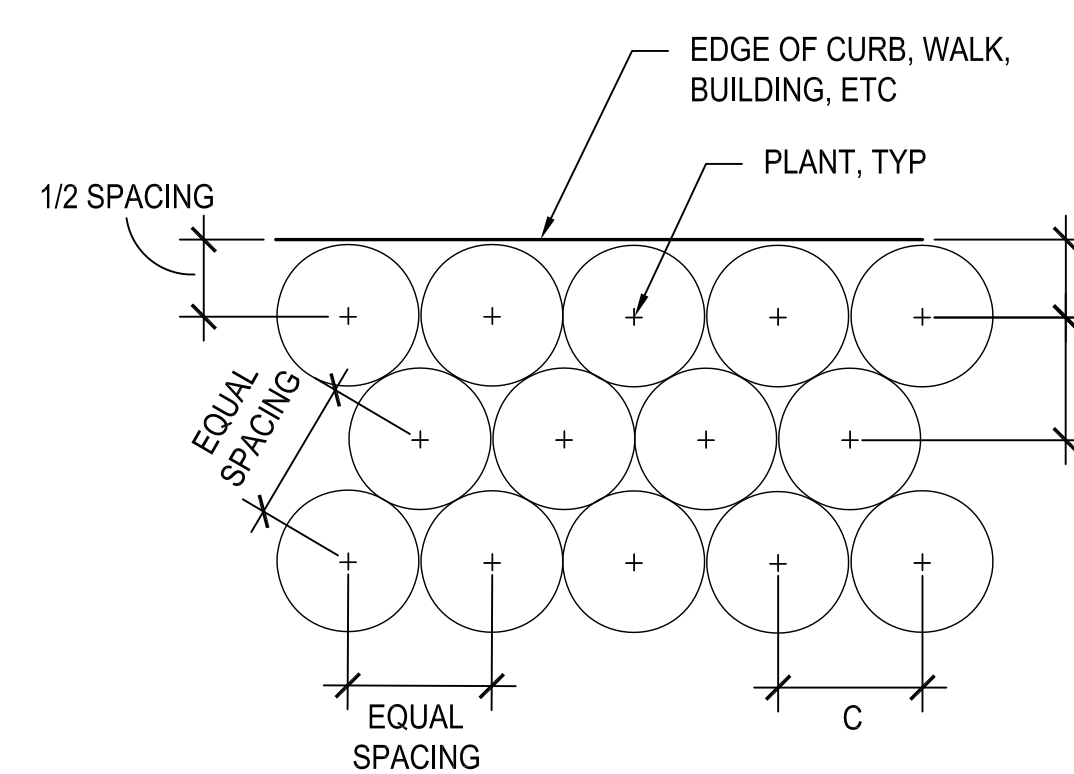
### 1 SHRUB PLANTING

SCALE: 1" = 1'-0"



### 2 TURF

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



NOTES:  
1. SEE PLANTING PLAN FOR SPACING BY PLANT SPECIES.  
2. INSTALL TRIANGULATED PLANT LAYOUT, UNLESS OTHERWISE SHOWN ON PLANS.

PLANT SPACING	A	B	C
12"	6"	10"	12"
1'-6"	9"	1'-4"	1'-6"
2'-0"	12"	1'-9"	2'-0"
2'-6"	1'-3"	2'-2"	2'-6"
3'-0"	1'-6"	2'-7"	3'-0"
3'-6"	1'-9"	3'-0"	3'-6"
4'-0"	2'-0"	3'-6"	4'-0"
4'-6"	2'-3"	3'-11"	4'-6"
5'-0"	2'-6"	4'-4"	5'-0"

### 3 PLANTING LAYOUT

NTS



# Irrigation Notes:

- The irrigation system to be controlled by a centrally located weather-based irrigation controller with a rain shutoff sensor.
- The intent of this irrigation system is to provide the minimum amount of water required to sustain good plant health. The irrigation controller is to be programmed for seasonal weather changes, plant material water requirements, mounds and slopes, sun, shade and wind exposure.
- Turf areas to be irrigated by pop-up spray heads and rotors. New trees to be irrigated with in-line drip irrigation (drip rings). All other planting area to be installed with in-line drip irrigation.
- Shoreline planting to be temporarily irrigated during plant establishment period only. Temporary irrigation to be removed after plants are established.
- Refer to plans, details and specifications for irrigation system components, installation, maintenance, scheduling, and reporting requirements.
- The contractor shall comply with local water district procedures & requirements, all city of \_\_\_\_\_ requirements, and the state water efficient landscape ordinance. Ordinance criteria has been applied accordingly for the efficient use of water in the irrigation design plan.
- These irrigation drawings are diagrammatic and indicative of the work to be installed. All piping, valves, and other irrigation components are to be installed within planting areas to the greatest extent possible. Due to the scale of the drawings, it is not possible to indicate all offsets, fittings, sleeves, conduit, and other items which may be required.
- The contractor is to investigate the existing and proposed finished condition of the work. The contractor shall immediately notify the owner's representative of any conflicts and/or discrepancies between existing and proposed conditions which will affect the work, before proceeding with the work. In the event these notifications are not performed, the contractor assumes full responsibility for required revisions.
- The contractor shall coordinate all work with other trades, including the installation of all pipe, conduit and sleeves through or under walls, roadways, paving and structures.
- Prior to trenching and digging, contact usa (800-227-2600) to locate all underground utilities. The contractor shall be responsible for minor changes in the irrigation layout due to obstructions not shown on the irrigation drawings such as underground utilities, vaults, etc. The contractor shall avoid conflicts with underground utilities, new planting, site or architectural elements, and existing trees; any damage to these caused by the installation of the irrigation system shall be repaired and/or replaced at no expense to the owner.
- Do not trench or install irrigation piping or equipment in lime-treated soil.
- The irrigation system is designed to operate at 100 gpm, and 120 p.s.i. at the point of connection. The contractor shall verify flow rate and pressure at the point of connection prior to the installation of the irrigation system and notify the owner's representative of test results before construction begins. Notify landscape architect if pressure is greater or less than the static pressure stated on the plans to determine if pressure regulation or a booster pump is required.
- The contractor shall obtain as-built irrigation drawings of all existing irrigation system(s) from the owner's representative for reference during new and retrofit work.
- Contractor to field verify condition of all existing irrigation equipment impacted by new construction and repair and replace as necessary.
- Install all irrigation equipment per manufacturer's recommendations.
- Install one spare common and control wire from each controller in a continuous loop through each valve box for future use.
- Where pipe sizes have been omitted or there is a conflict, refer to the lateral pipe sizing chart for sizes. As changes in layout occur during staking and construction, pipe sizes may need to be adjusted accordingly. All lateral end runs shall be 1" size unless otherwise noted.
- The remote control valves specified on the drawings are pressure reducing types. Set the discharge pressure as recommended by manufacturer.
- Contractor to assume (4) additional control valves to be installed as needed.
- Large areas of ornamental grasses are to be irrigated by a dedicated control valve.
- All irrigation boxes and lids to be black.
- Non-potable irrigation note:** This system is being installed for non-potable water use. All pipe, equipment, heads, and fittings shall be color-coded and labeled for non-potable use per all applicable state and local codes.
- Locate bubblers and emitters on uphill side of plant or tree.

- Contractor to maintain existing planted areas throughout construction and coordinate operations to keep existing planting areas alive and healthy. Existing and new irrigation systems shall be installed, adjusted and maintained to provide 100% coverage of planting areas and to prevent misting, overspray and runoff onto buildings, walls windows, paved areas, etc.
- Flush and adjust irrigation emitters, nozzles and outlets for optimum performance and to prevent over spray onto walks, roadways, and/or buildings. Select the best degree of arc and radius to fit the existing site conditions and throttle the flow control at each valve to obtain the optimum operating pressure for each control zone.
- Contractor shall make final connection between electrical supply and the controller, and between the main line and water source at the point of connection(s).
- The intent of this irrigation system is to provide the minimum amount of water required to sustain good plant health. It is the responsibility of the landscape maintenance contractor to program the irrigation controller(s) to provide the minimum amount of water needed to sustain good plant health. This includes making adjustments to the program for seasonal weather changes, plant material, water requirements, mounds and slopes, sun, shade and wind exposure.
- The contractor shall coordinate valve numbering, controller operations and programming with owner's representative.
- Station operation times shall not deliver water exceed the soil infiltration rate(s) as determined by the soils report(s).
- The contractor shall provide the owner's representative with clear as-built plans of the installed irrigation system.

## IRRIGATION LEGEND

WEATHERTRAK ET PRO 3 2-WIRE WEATHER-BASED IRRIGATION CONTROLLER MODEL: WTPRO3-C-2W48-SPH, OR EQUAL.	INLINE DRIP IRRIGATION RAINBIRD XFS-09-12 SUB-SURFACE DRIP LINE (12" EMITTER SPACING) W/ RB XFS DRIP SYSTEM OPERATION INDICATOR AT END OF EACH DRIP ZONE. LINE SPACING TO BE COORDINATED WITH PLANT SPACING (12", 18" & 24" O.C.) *INSTALL LOW FLOW BUBBLERS & IRRIGATION BERMS AT ROOTBALL OF SHRUBS SPACED GREATER THAN 24" O.C.
(E) IRRIGATION WATER METER (VIF NUMBER & LOCATION)	TREE WATERING SYSTEM DRIP RING AT ROOTBALL W/ 2 EMITTERS AT ROOT CROWN
(N) 2" BACKFLOW PREVENTION DEVICE ( BY FEBCO MODEL & SIZE TBD)	POP-UP STAINLESS STEEL ROTOR W/ ADJUSTABLE ARC & CHECK VALVE MODEL I-25-04-SS BY HUNTER, OR EQUAL. SELECT NOZZLE FOR RADIUS SHOWN @ 50PSI
(N) MAINLINE, SCH 40 PVC, 3" AND SMALLER	POP-UP SPRAY HEAD WITH ADJUSTABLE ARC, MATCHED PRECIPITATION RATE, CHECK VALVE & PRESSURE REGULATION. MODEL PROS-04-PRS40-CV-MP1000/2000/3000 BY HUNTER, OR EQUAL. SELECT NOZZLE FOR RADIUS SHOWN @40PSI.
MASTER VALVE, NORMALLY OPEN, LINE SIZE WEATHERTRAK FLOW 3, OR EQUAL.	TEMPORARY IRRIGATION FOR PLANT ESTABLISHMENT ONLY.
FLOW SENSOR NOTE FLOW 3 INCLUDES FLOW METER, SEE ABOVE FOR PRODUCT	
LATERAL LINE: 1" AND LARGER, SCH 40 PVC.	
SLEEVE: CLASS 200 PVC, SIZE AS SHOWN	
GATE VALVE, BRASS NIBCO T113-IRR (LINE SIZE), OR EQUAL.	
QUICK COUPLING VALVE LOCKING COVER, 1-PIECE BODY, RAINBIRD 5-LRC, BRASS, OR EQUAL.	
REMOTE CONTROL VALVE WITH PRESSURE REGULATING SPRAY ZONES: GRISWOLD DWS-PRV, HUNTER ICV AS ADJ, OR EQUAL DRIP ZONES: HUNTER ICZ WITH FILTER, OR EQUAL.	

	CONTROLLER / STATION NUMBER
	FLOW RATE (GPM)
	VALVE SIZE (INCHES)

CLASS 200 PVC LATERAL LINE SIZING		TYPICAL VALVE SIZING	
0 - 6 GPM: 0.75"	29 - 45 GPM: 2.0"	00 - 25 GPM: 1.0" VALVE	
7 - 12 GPM: 1.0"	46 - 65 GPM: 2.5"	26 - 35 GPM: 1.25"	
13 - 28 GPM: 1.5"	66 - 100 GPM: 3.0"	36 - 50 GPM: 1.5"	
		51 - 100 GPM: 2"	

**Maximum Applied Water Allowance**

Enter Zip Code  28.33 Residential?  No

**Enter Project Information**

Project Name:   
 Address:   
 Meter Number:   
 Location/Sheet No.   
 Date:

---

**Maximum Applied Water Allowance (MAWA)**

Landscaped Area:  sqft  
 Special Landscaped Area:  sqft  
 MAWA =  CCF

---

**Estimated Total Water Use (ETWU)**

Low water use plant  sqft  
 Moderate water use plant  sqft  
 High water use plant  sqft  
 Efficiency Factor

% of Total Landscape Irrigated with Drip	Irrigation Efficiency Factor
0-33%	<input type="text" value="0.75"/>
34-66%	<input type="text" value="0.80"/>
67-100%	<input type="text" value="0.85"/>

ETWU =  CCF

---

**Water Use Table**

ETWU	Gallons: 1,569,304	CCF's: 2,098	AF: 4.82			
Baseline Period	Jan/Feb	Mar/Apr	May/June	Jul/Aug	Sep/Oct	Nov/Dec
Baseline CCF's	13	233	573	671	479	129
1 CCF = 748 Gallons; 1 AF = 435.6 CCF's						
For more information please contact 415-945-1497 or see our website at www.marinwater.org						

## Hydrozone Table

This worksheet is filled out by the project applicant and it is a required element of the Landscape Documentation Package. Please complete the hydrozone table(s) for each hydrozone. Use as many tables as necessary to provide the square footage of landscape area per hydrozone.

Zone or Valve	Hydrozone*	Irrigation Method**	Gallons Per Minute	Area (sq. ft.)
VALVE 1	MW	D	22.5	3250
VALVE 2	MW	B	5	50
VALVE 3	MW	D	9.9	1485
VALVE 4	MW	B	6	50
VALVE 5	MW	B	4	40
VALVE 6	MW	D	10.4	1320
VALVE 7	LW	D	15.1	2160
VALVE 8	LW	B	5	50
VALVE 9	HW	S	22.8	6950
VALVE 10	LW	D	2.5	315
VALVE 11	LW	D	6.7	930
VALVE 12	LW	B	4	40
VALVES 13-16, 20, 24	HW	S	150.9	43005
VALVE 17	LW	D	6.9	950
VALVE 18	LW	D	13.4	2000
VALVE 19	MW	B	7	70
VALVE 21	LW	D	15.1	2250

VALVE 22	LW	B	6	60
VALVES 23, 27	HW	S	26	8500
VALVE 25	LW	B	5	50
VALVE 26	LW	B	4	40
VALVE 28	LW	D	21.2	3170
VALVE 29	LW	B	7	70
VALVE 30	LW	D	41	6200
VALVE 31	LW	D	28.1	4200
VALVE 32	LW	D	43	6450
VALVE 33	LW	D	27.7	3990
VALVE 34	LW	B	10	100
<b>Total</b>				<b>97,745</b>

Summary Hydrozone Table	
Hydrozone	Area (sq. ft.)
High Water Use	58,445
Moderate Water Use	6,265
Low Water Use	33,035
<b>Total</b>	<b>97,745</b>

\*HW=High Water Use Plants; MW=Moderate Water Use Plants; LW=Low Water Use Plants  
 \*\*MS=Micro-spray; S=Spray; R=Rotor; B=Bubbler; D=Drip; O=Other

# 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

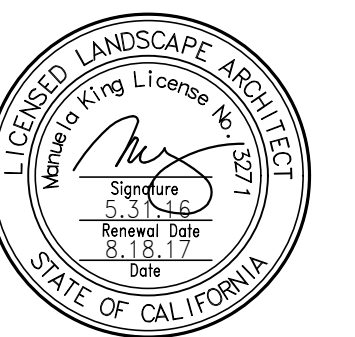
DATE

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

REGISTRATION AND SIGNATURE



SHEET TITLE

## IRRIGATION NOTES

DRAWN BY:

CHECKED BY:

# L9.0

PROJECT/CLIENT NAME

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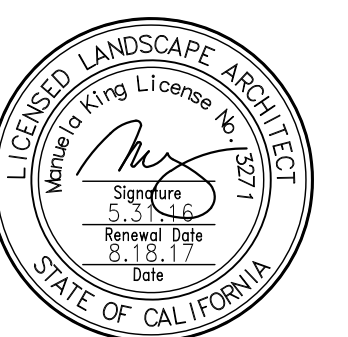
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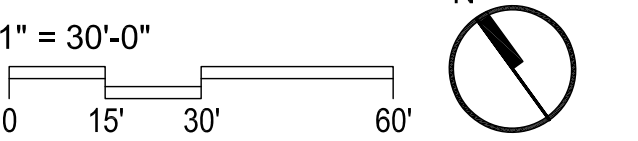
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SCALE



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IRRIGATION PLAN

DRAWN BY:

CHECKED BY:

**L9.1**



PROJECT/CLIENT NAME

## Dunphy Park Improvement Project

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Sausalito, CA 94965

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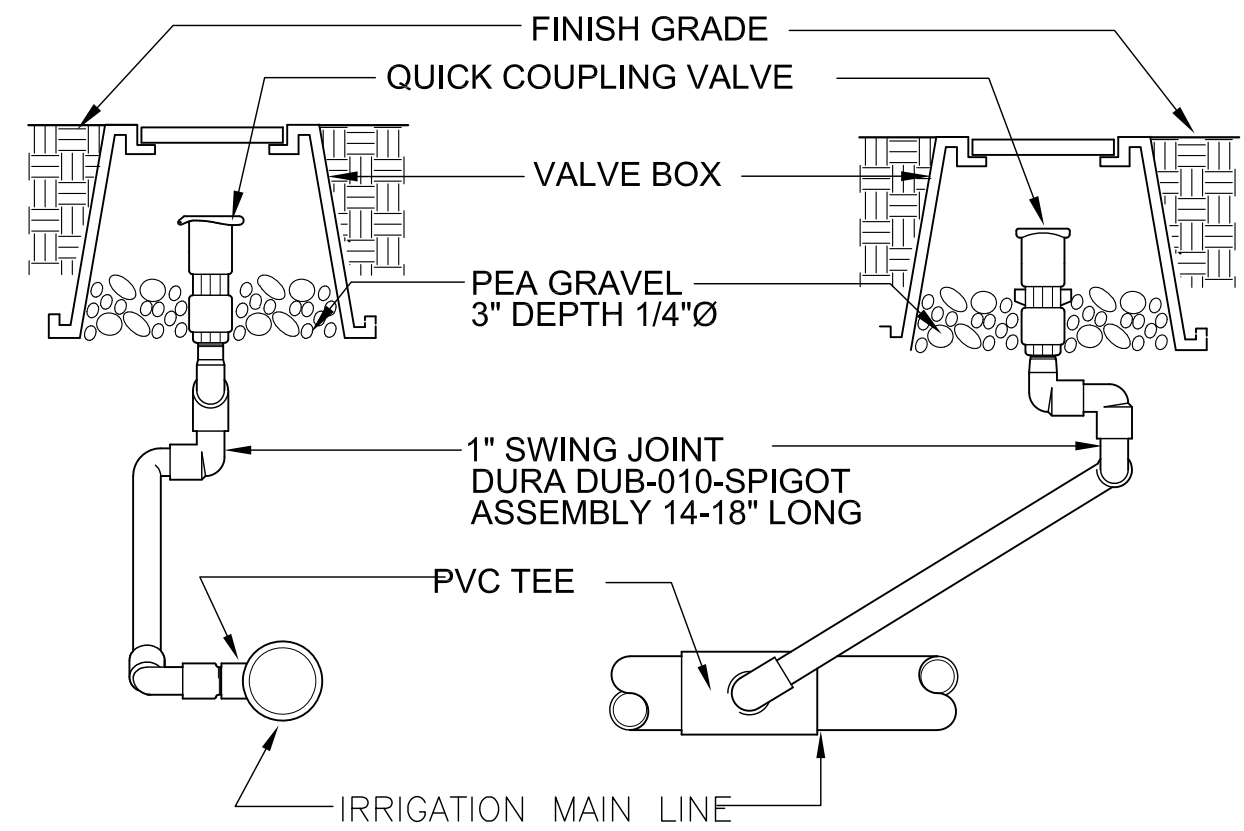


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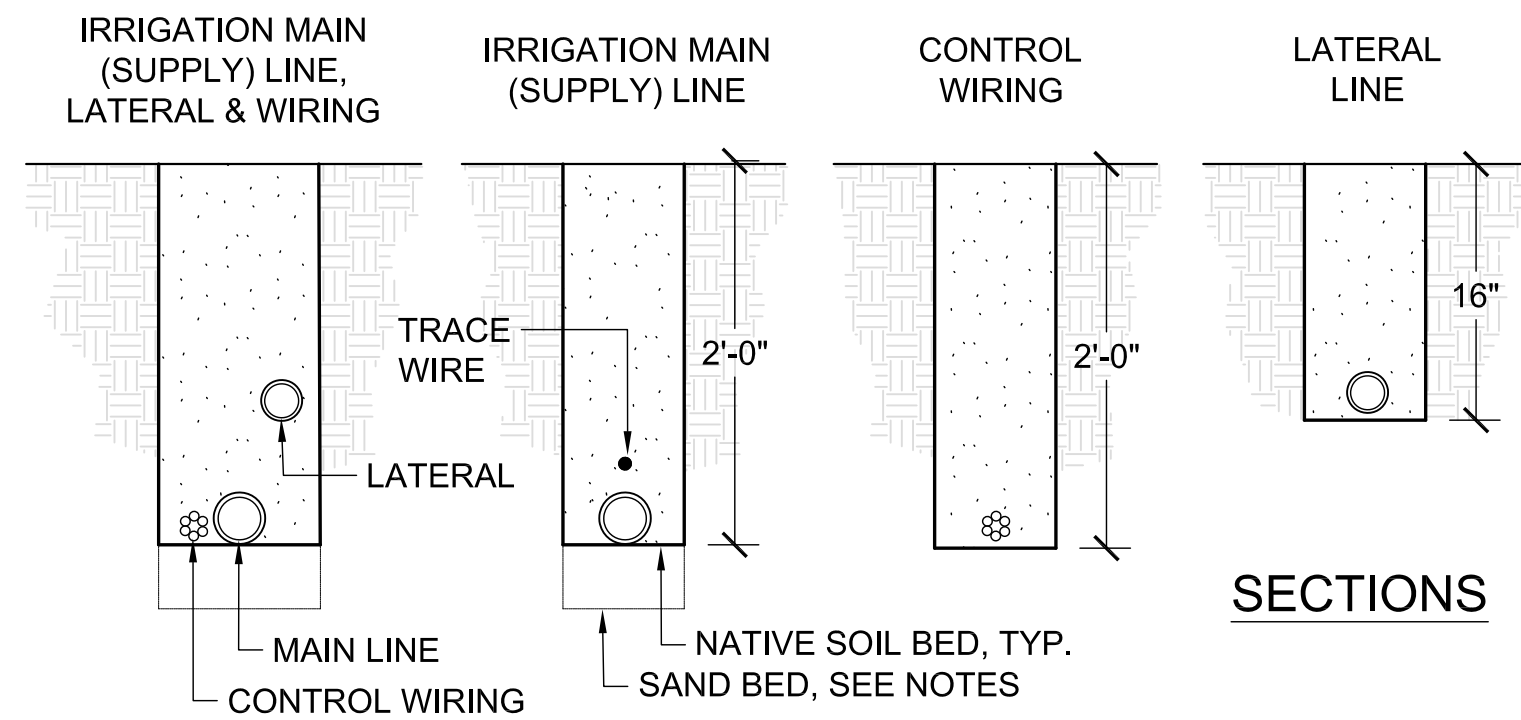
## IRRIGATION DETAILS

DRAWN BY: CHECKED BY:

# L9.2

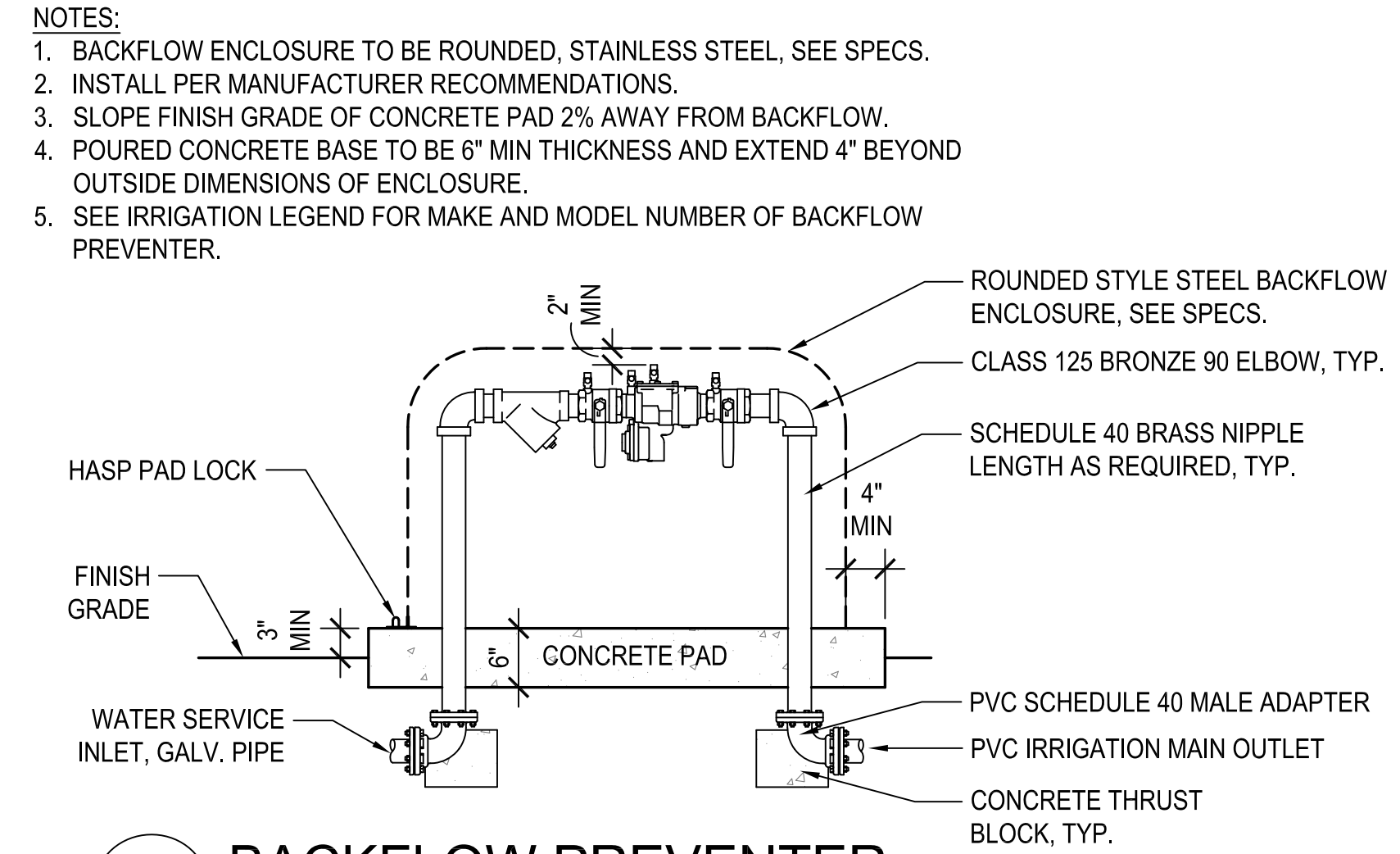


**6 QUICK COUPLING VALVE**  
NTS



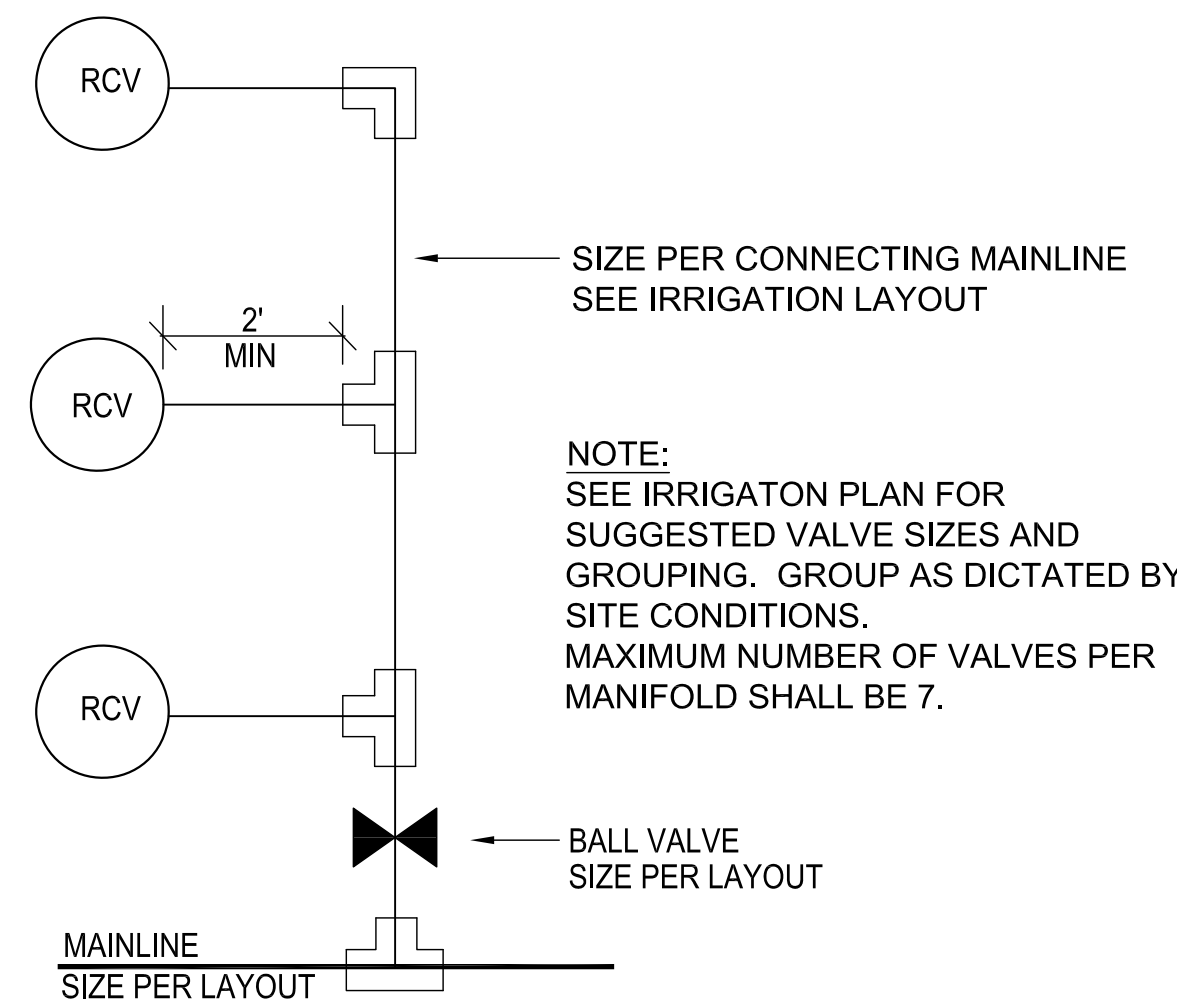
- NOTES:**
- LAY IRRIGATION SUPPLY LINE ON NATIVE SOIL BED UNLESS SAND BED IS SPECIFIED
  - BUNDLE AND TAPE WIRE EVERY TEN FEET
  - PROVIDE 36" COVER OVER ALL PIPE AND PIPE SLEEVES UNDER ROADWAYS, PARKING LOTS, ENTRANCES TO PARKING LOTS AND FIRE ACCESS LANES PER NFPA 24, SECTION 10.44, SEE SPECS.
  - PROVIDE SEPARATE SLEEVES FOR ALL WIRES CROSSING UNDER ROADWAYS, PARKING LOTS AND FIRE ACCESS LANES PER NFPA 24, SECTION 10.44, SEE SPECS.

**3 IRRIGATION TRENCHING**  
NTS



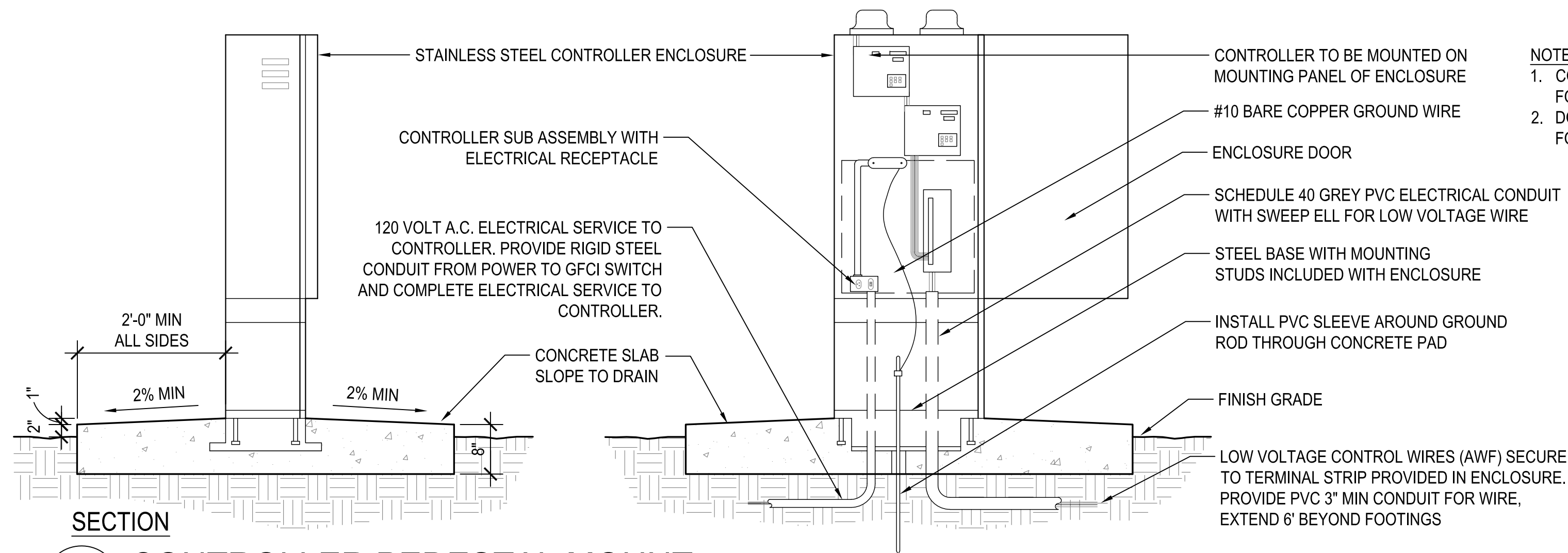
- NOTES:**
- BACKFLOW ENCLOSURE TO BE ROUNDED, STAINLESS STEEL, SEE SPECS.
  - INSTALL PER MANUFACTURER RECOMMENDATIONS.
  - SLOPE FINISH GRADE OF CONCRETE PAD 2% AWAY FROM BACKFLOW.
  - POURED CONCRETE BASE TO BE 6" MIN THICKNESS AND EXTEND 4" BEYOND OUTSIDE DIMENSIONS OF ENCLOSURE.
  - SEE IRRIGATION LEGEND FOR MAKE AND MODEL NUMBER OF BACKFLOW PREVENTER.

**1 BACKFLOW PREVENTER**  
SCALE: NTS



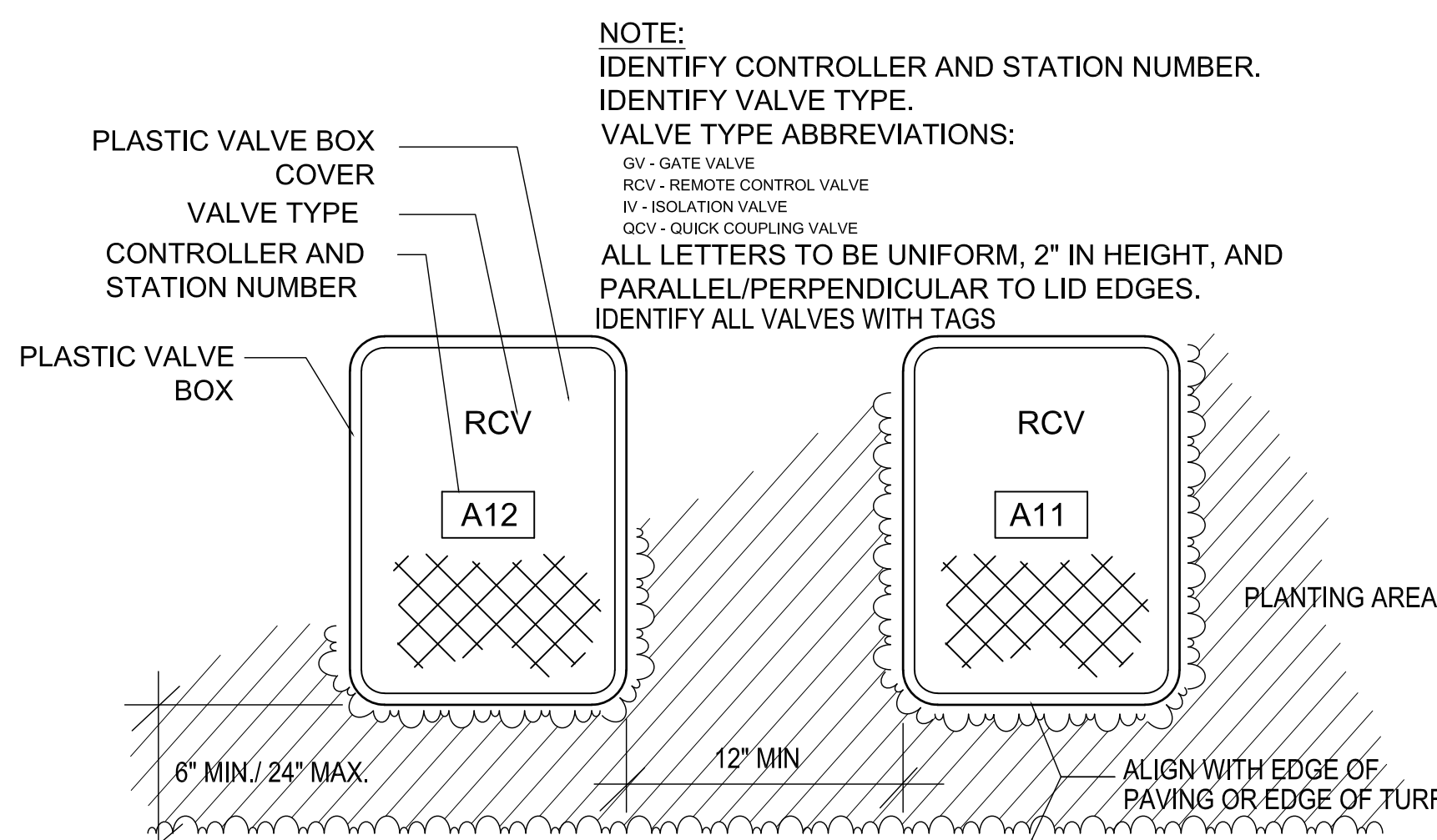
**NOTE:**  
SEE IRRIGATION PLAN FOR SUGGESTED VALVE SIZES AND GROUPING. GROUP AS DICTATED BY SITE CONDITIONS. MAXIMUM NUMBER OF VALVES PER MANIFOLD SHALL BE 7.

**7 REMOTE CONTROL VALVES - CONNECTION**  
NTS



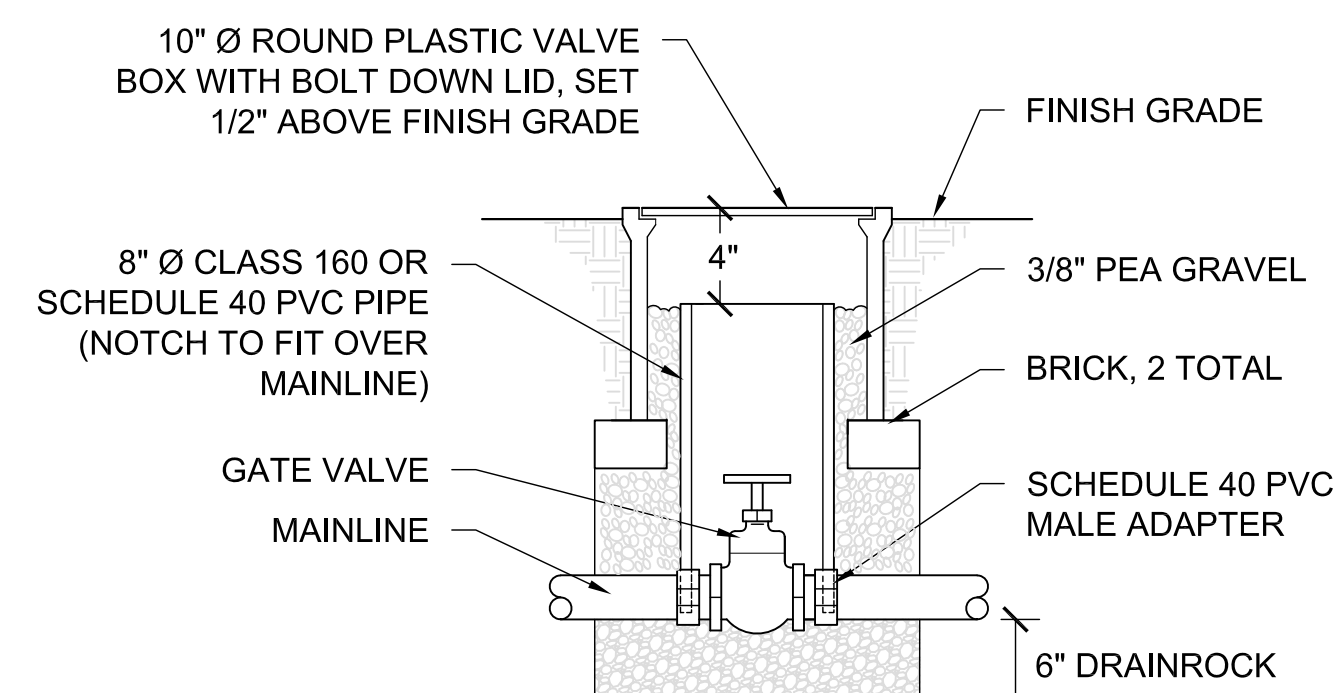
- NOTES:**
- COORDINATE WITH ELECTRICAL FOR CONDUIT AND GROUNDING.
  - DO NOT EXCEED 54" MAX HEIGHT FOR CONTROLS.

**4 CONTROLLER PEDESTAL MOUNT**  
SCALE: NTS



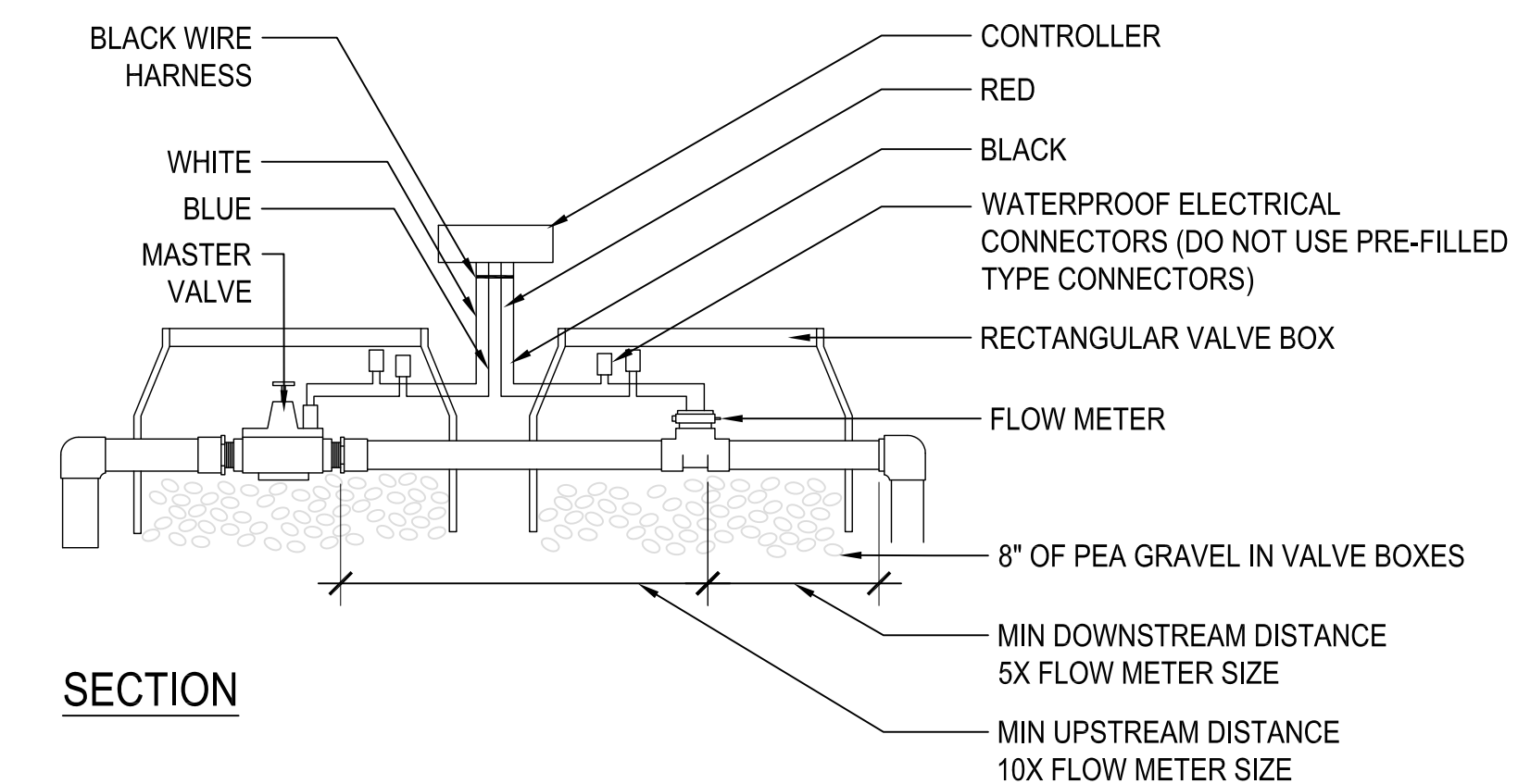
**NOTE:**  
IDENTIFY CONTROLLER AND STATION NUMBER. IDENTIFY VALVE TYPE. VALVE TYPE ABBREVIATIONS:  
GV - GATE VALVE  
RCV - REMOTE CONTROL VALVE  
IV - ISOLATION VALVE  
QCV - QUICK COUPLING VALVE  
ALL LETTERS TO BE UNIFORM, 2" IN HEIGHT, AND PARALLEL/PERPENDICULAR TO LID EDGES. IDENTIFY ALL VALVES WITH TAGS

**8 REMOTE CONTROL VALVES - LOCATION**  
NTS



- NOTES:**
- HEAT BRAND LID "GV". SEE SPECS FOR BOX COLOR.
  - GATE VALVE AND FITTINGS SHALL BE LINE SIZE UNLESS NOTED OTHERWISE.
  - USE TEFLON TAPE ON ALL THREADED FITTINGS.

**5 GATE VALVE**  
NTS



**SECTION**

**2 MASTER VALVE & FLOW METER**  
SCALE: NTS

PROJECT/CLIENT NAME

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Sausalito, CA 94965

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City of Sausalito  
420 Litho St.  
Sausalito, CA 94965

RHAA PROJECT NUMBER

16042A

CONSULTANT

SUBMITTAL

### Permit Submittal

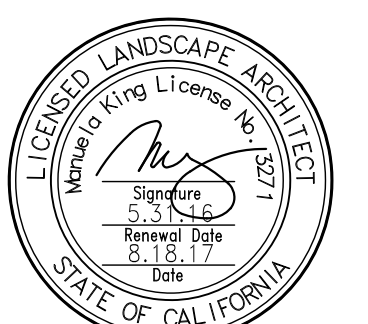
DATE

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SHEET TITLE

## IRRIGATION DETAILS

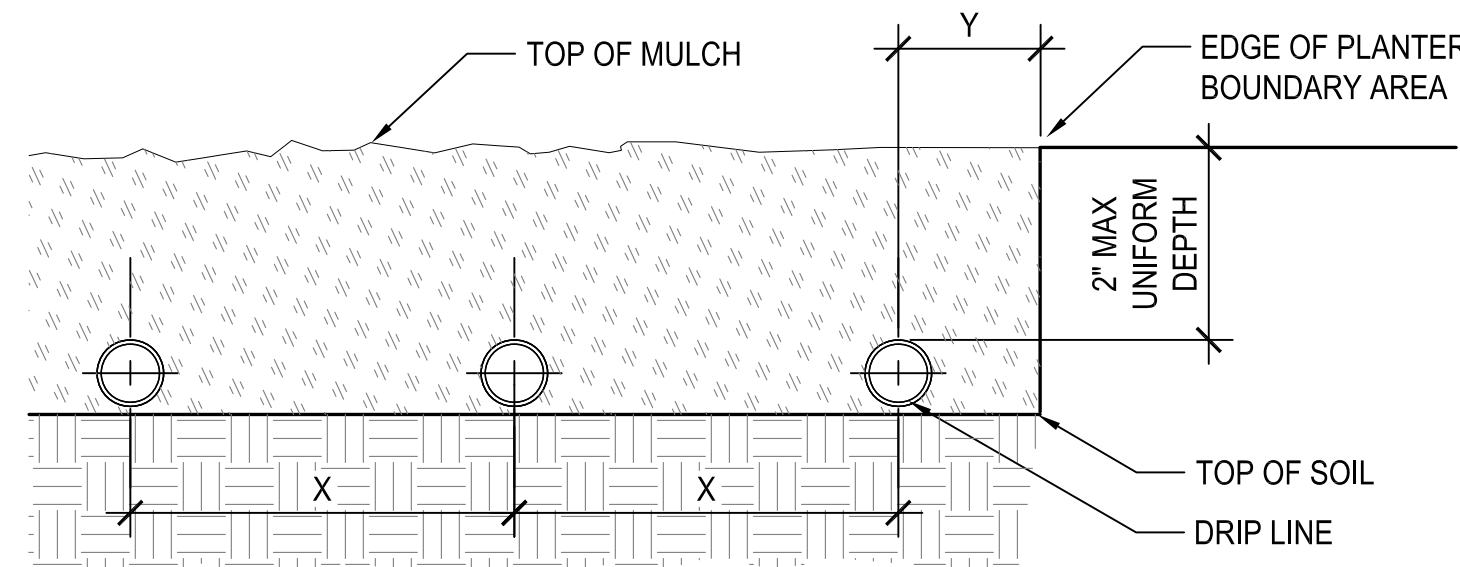
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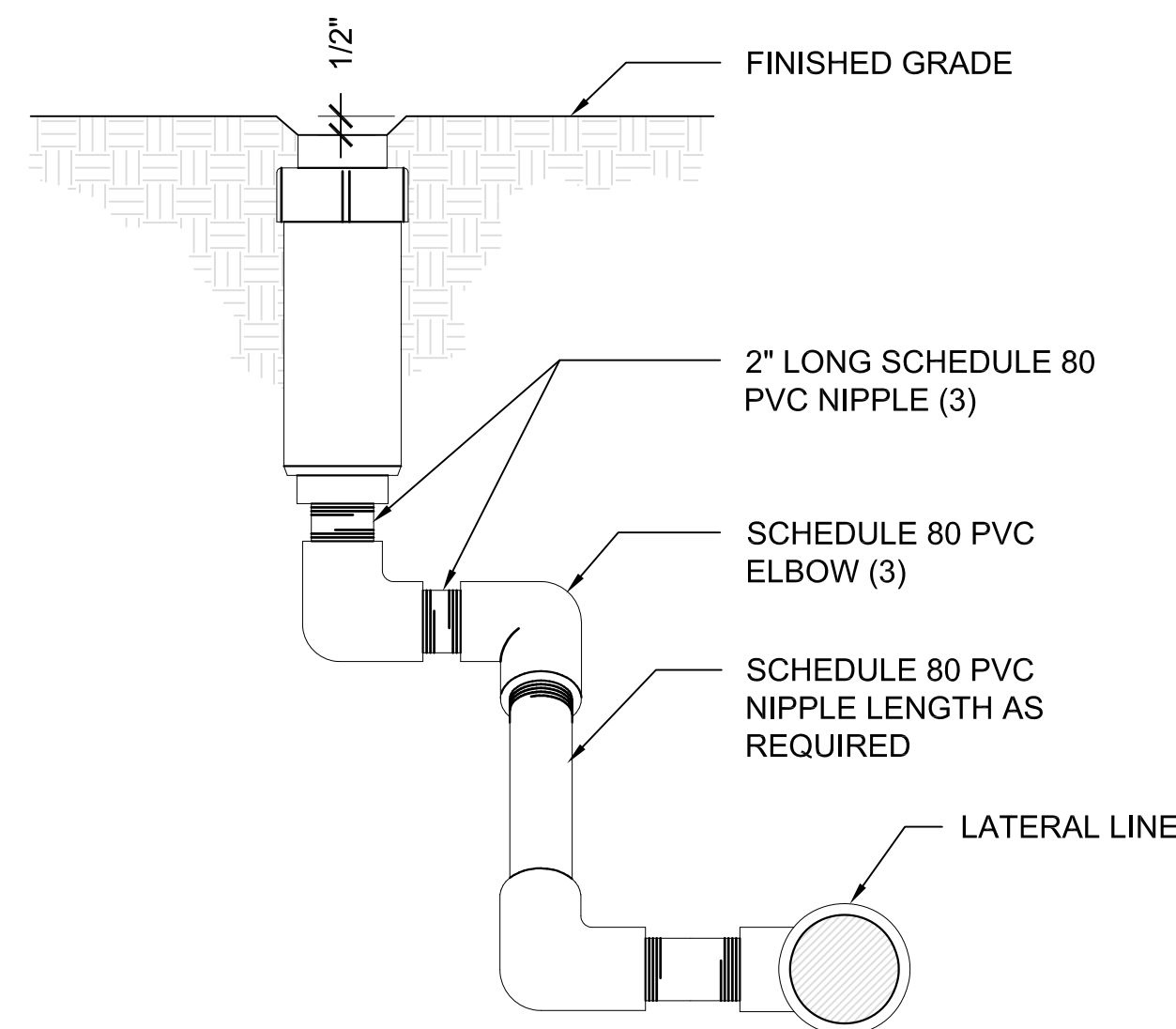
X DIMENSION (INCHES)	Y DIMENSION (INCHES)
12	4 OR 6

NOTES:

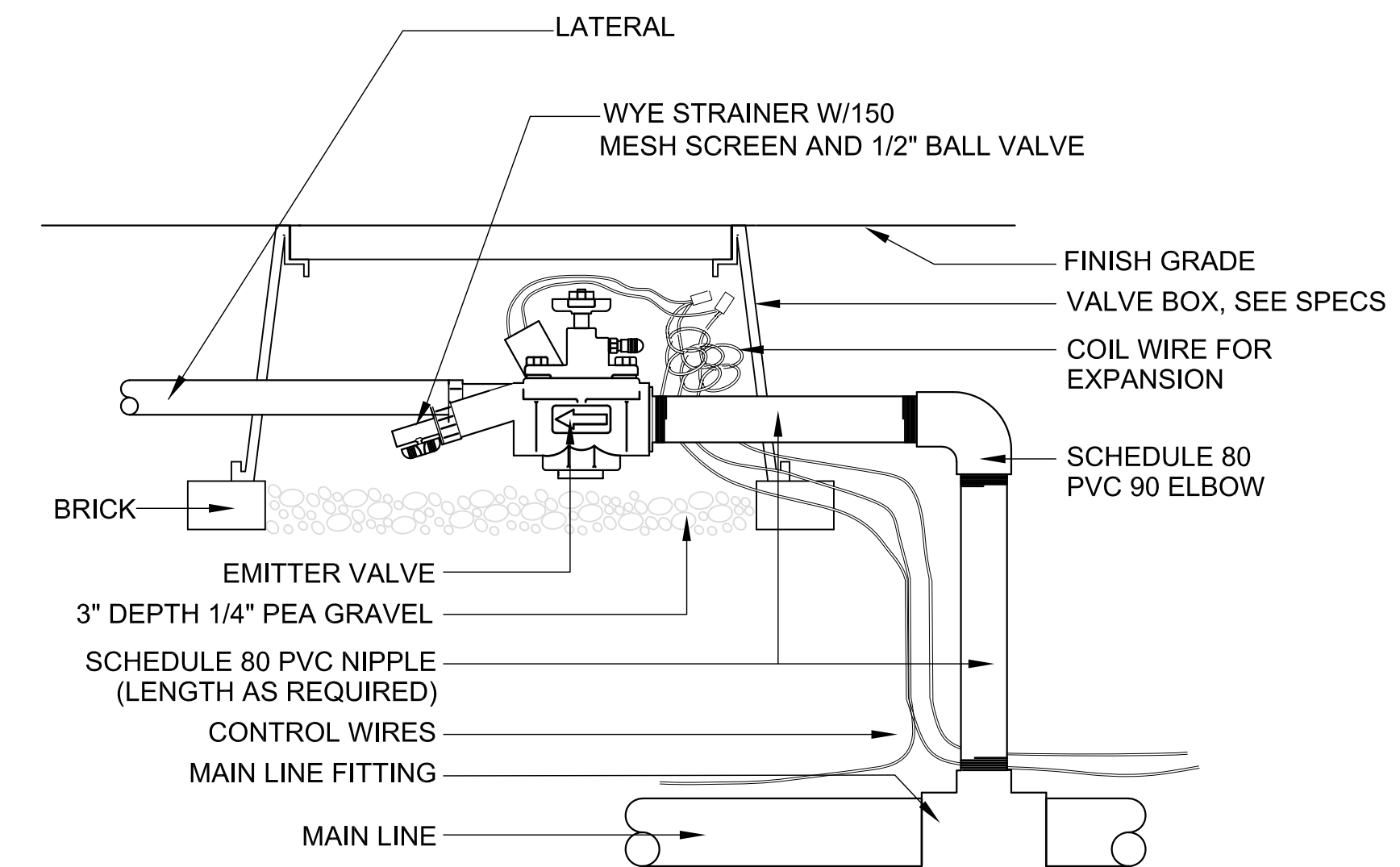
- TYPICAL DIMENSIONS FOR DRIP LINE GRID LAYOUT IN PLANTING AREAS.
- COORDINATE PLANTING INSTALLATION WITH GRID LAYOUT TO AVOID DAMAGE TO INSTALLED DRIP LINE AND TO PROVIDE UNIFORM IRRIGATION COVERAGE.
- INSTALL DRIP LINE PARALLEL TO CONTOUR LINES.



**7** DRIP TUBING ON GRADE INSTALLATION  
SCALE: 6" = 1'-0"



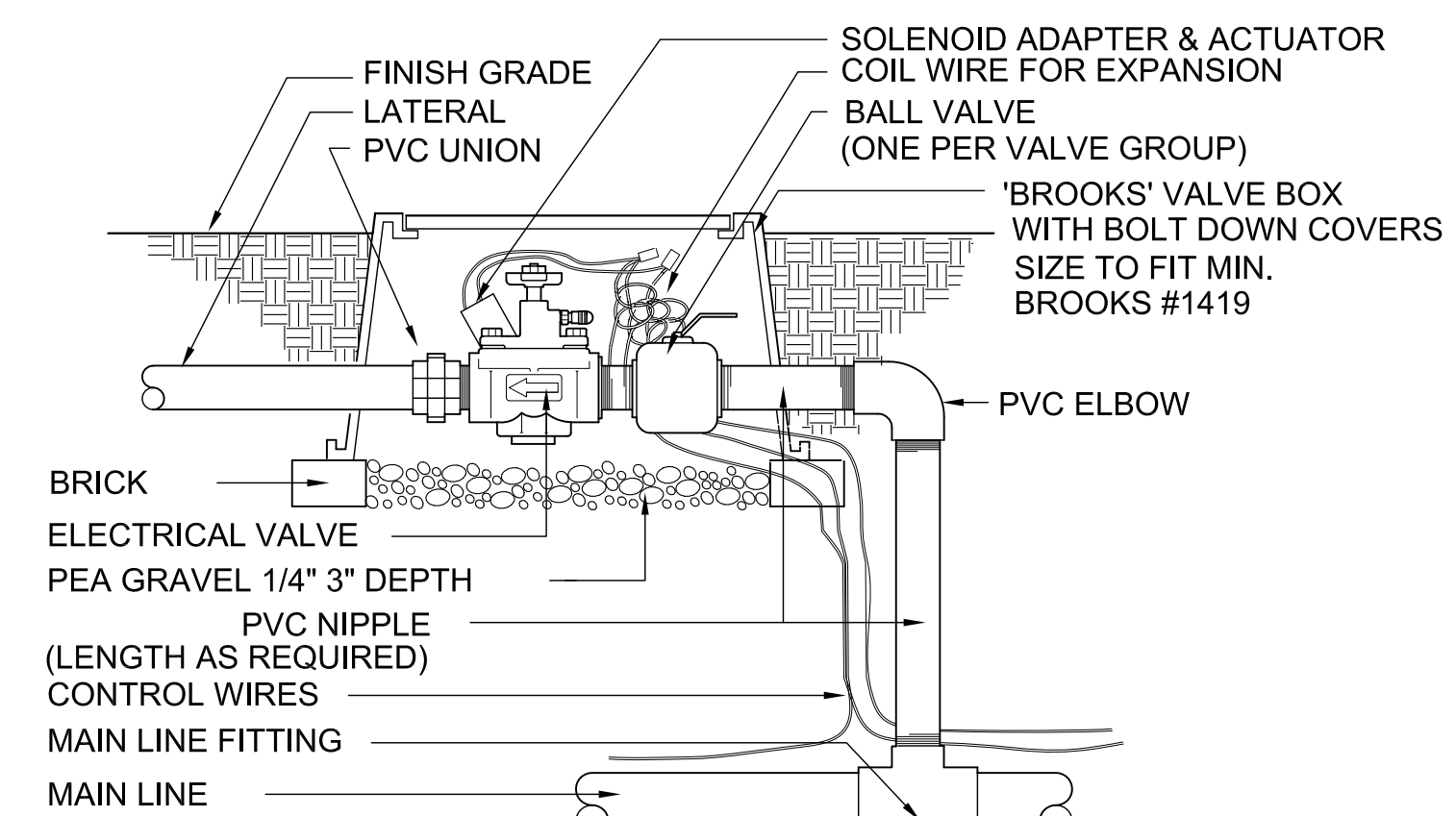
**4** POP UP ROTOR & SPRAY HEAD  
NTS



NOTES:

- BUNDLE AND TAPE WIRE EVERY 10 FEET
- PROVIDE 36" EXPANSION LOOP AT EACH WIRE CONNECTION
- LOCATE VALVES MIN. 4" FROM PAVED WALKWAYS.

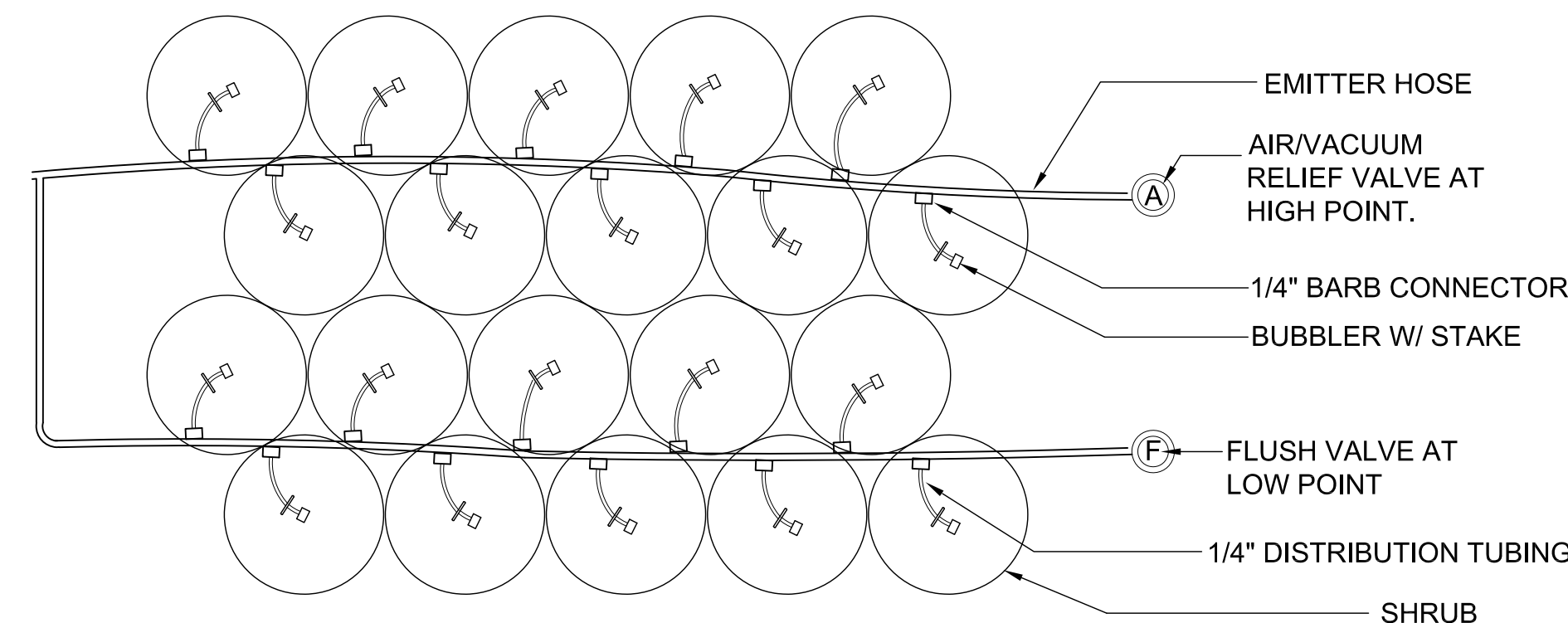
**1** REMOTE CONTROL VALVE - DRIP  
NTS



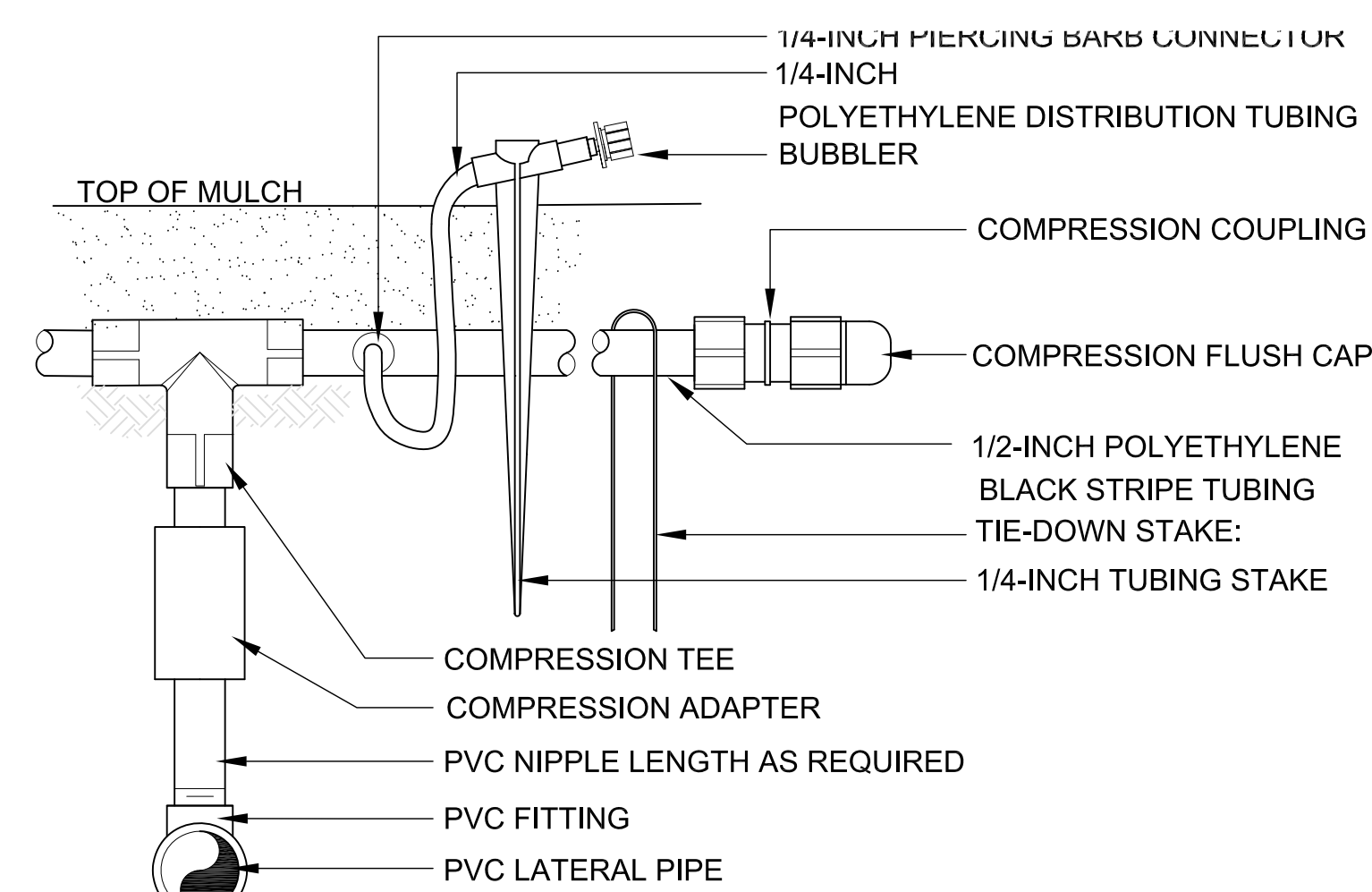
NOTES:

- BUNDLE AND TAPE WIRE EVERY 10 FEET
- PROVIDE 36" EXPANSION LOOP AT EACH WIRE CONNECTION
- SIZE BOX TO INCLUDE RCV AND BALL VALVES
- CONTRACTOR TO INSTALL NECESSARY SOLENOID ADAPTER FOR PROPER ATTACHMENT OF ACTUATOR

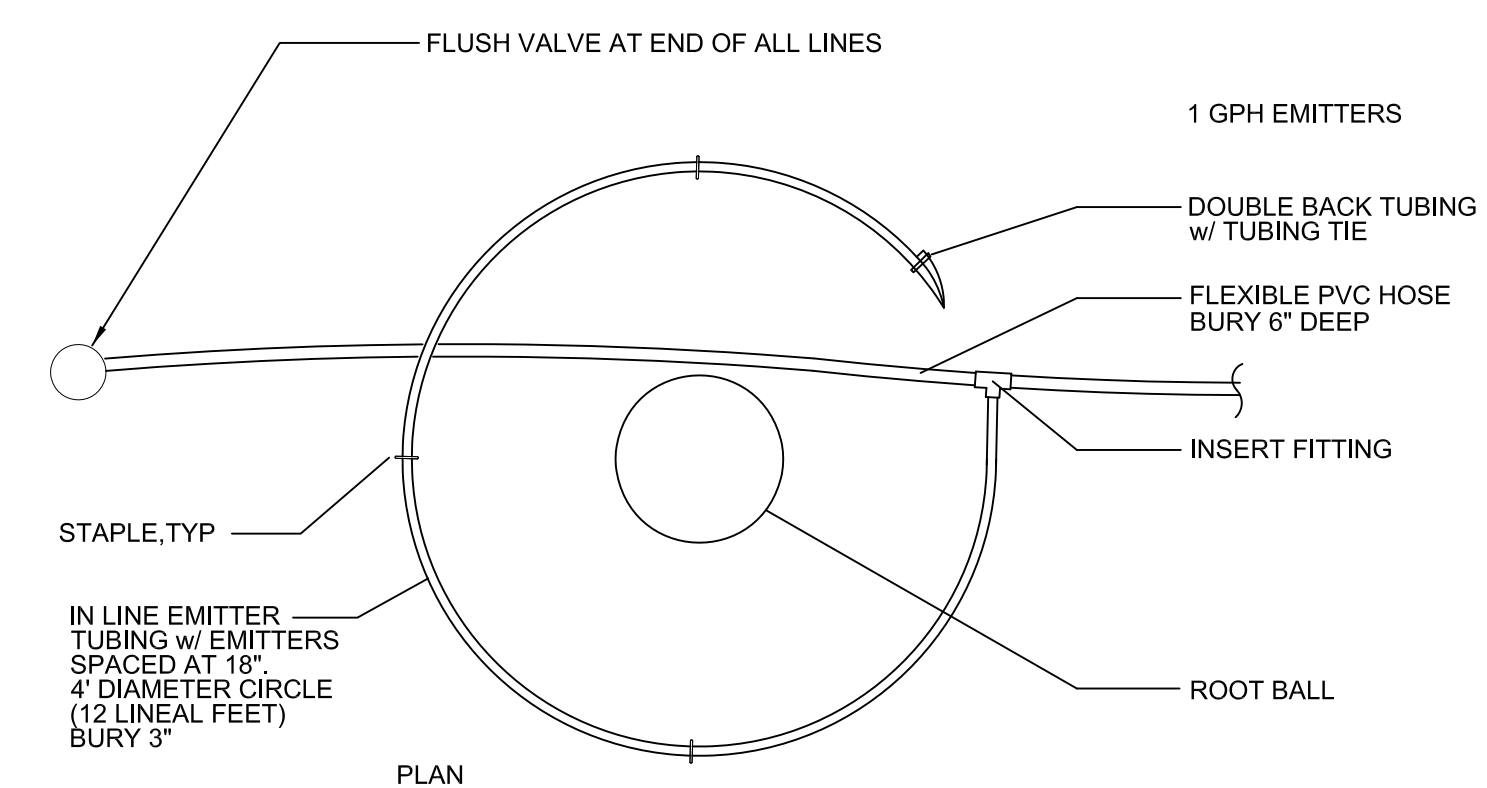
**2** REMOTE CONTROL VALVE  
NTS



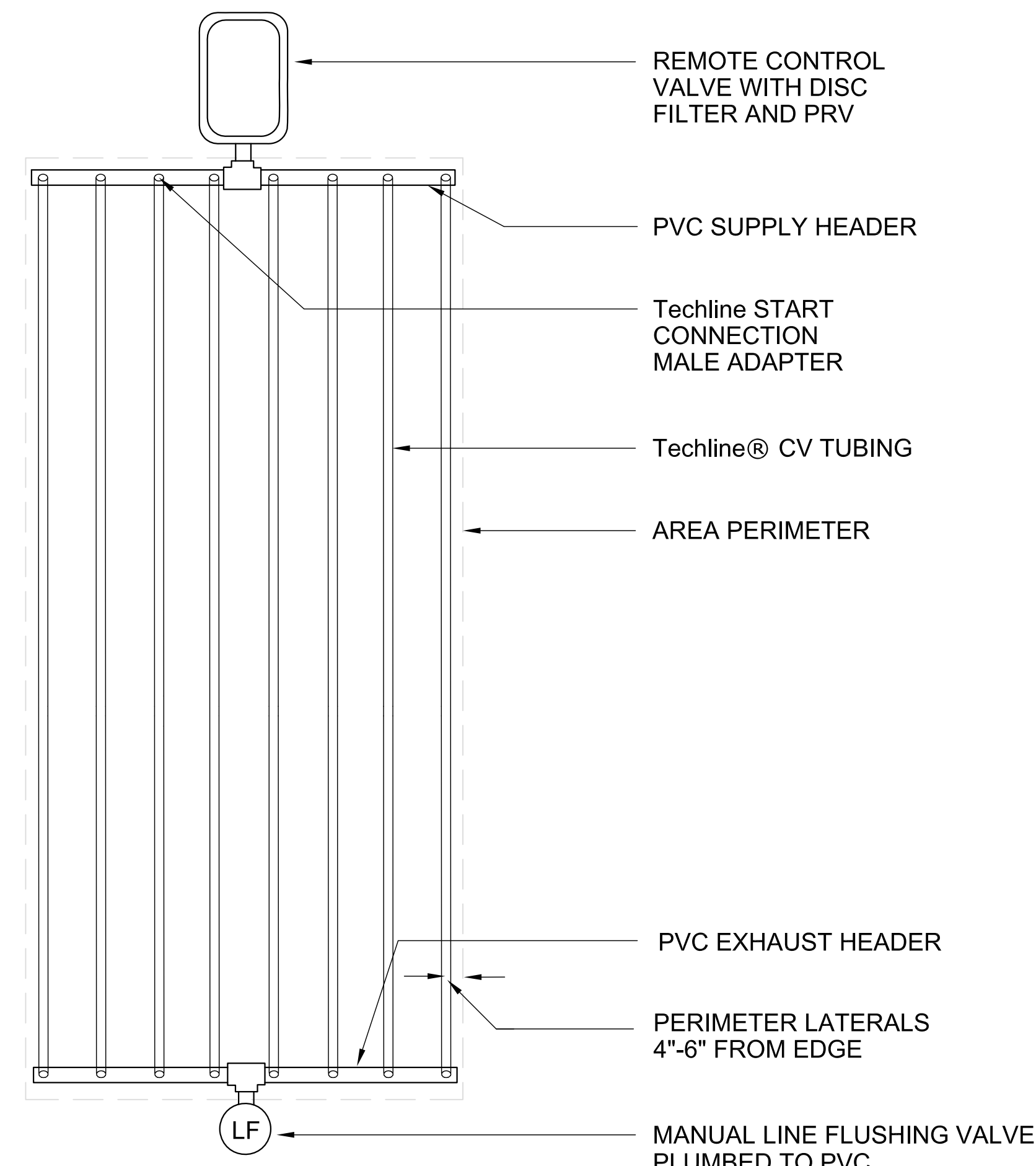
**5** DRIP EMITTER LAYOUT  
NTS



**6** DRIP EMITTER CONNECTION  
NTS



**3** TREE DRIP RING IRRIGATION  
NTS



**8** IN LINE DRIP LAYOUT  
NTS

PROJECT/CLIENT NAME

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Sausalito, CA 94965

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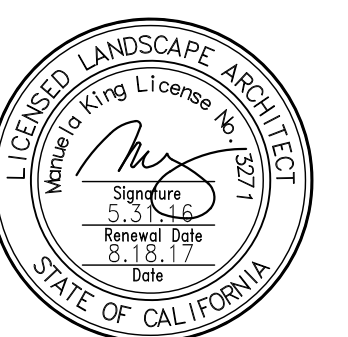
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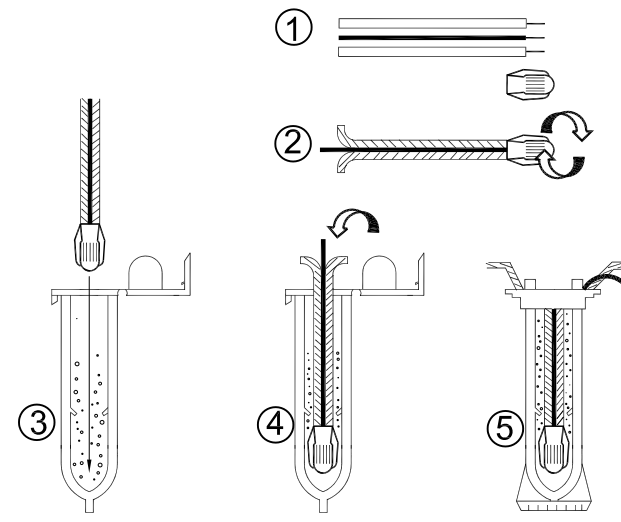


SHEET TITLE

## IRRIGATION DETAILS

DRAWN BY: CHECKED BY:

# △ L9.4



NOTES:

1. STRIP WIRES APPROXIMATELY 1/2" (12.7 MM) TO EXPOSE WIRE.
2. TWIST CONNECTOR AROUND WIRES CLOCKWISE UNTIL HAND TIGHT, DO NOT OVERTIGHTEN.
3. INSERT WIRE ASSEMBLY INTO PLASTIC TUBE UNTIL WIRE CONNECTOR SNAPS PAST LIP IN BOTTOM OF TUBE.
4. PLACE WIRES WHICH EXIT TUBE IN WIRE EXIT HOLES AND CLOSE CAP UNTIL IT SNAPS.
5. INSPECT FINAL SPLICE ASSEMBLY TO BE SECURE AND FINISHED.

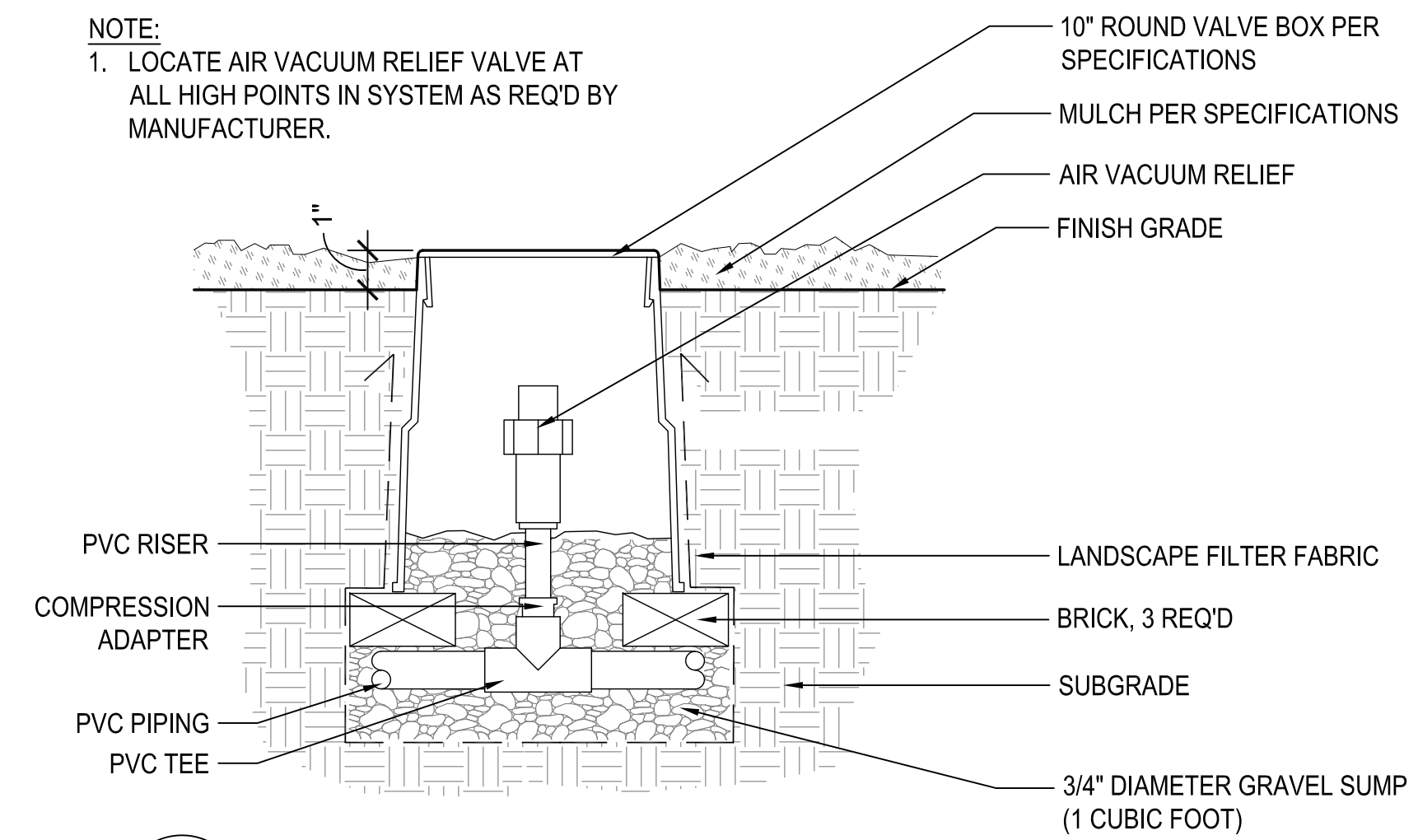
4

### WATERPROOF WIRE CONNECTION

NTS

NOTE:

1. LOCATE AIR VACUUM RELIEF VALVE AT ALL HIGH POINTS IN SYSTEM AS REQ'D BY MANUFACTURER.



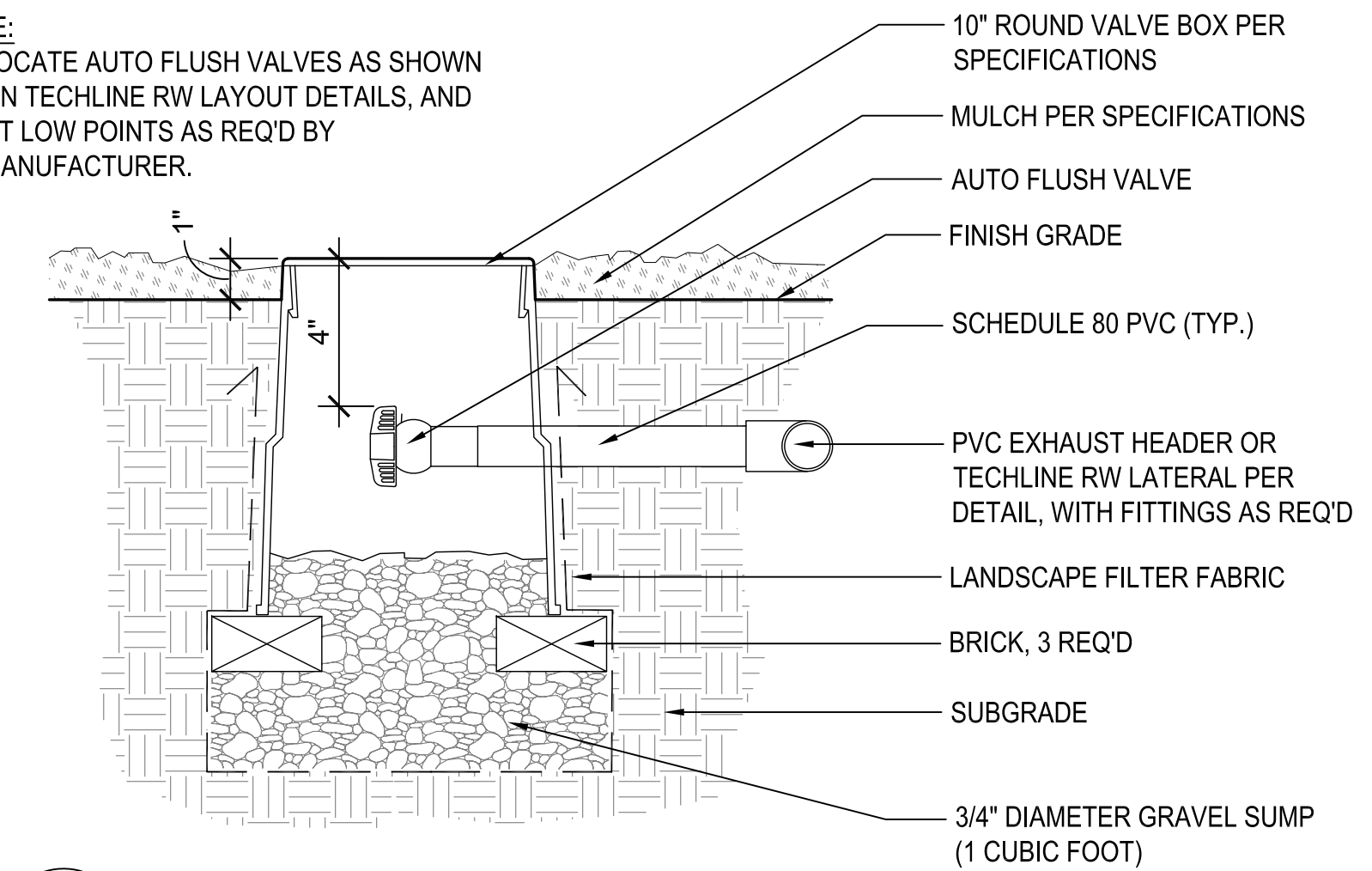
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### AIR VACUUM RELIEF VALVE

SCALE: NTS

NOTE:

1. LOCATE AUTO FLUSH VALVES AS SHOWN ON TECHLINE RW LAYOUT DETAILS, AND AT LOW POINTS AS REQ'D BY MANUFACTURER.



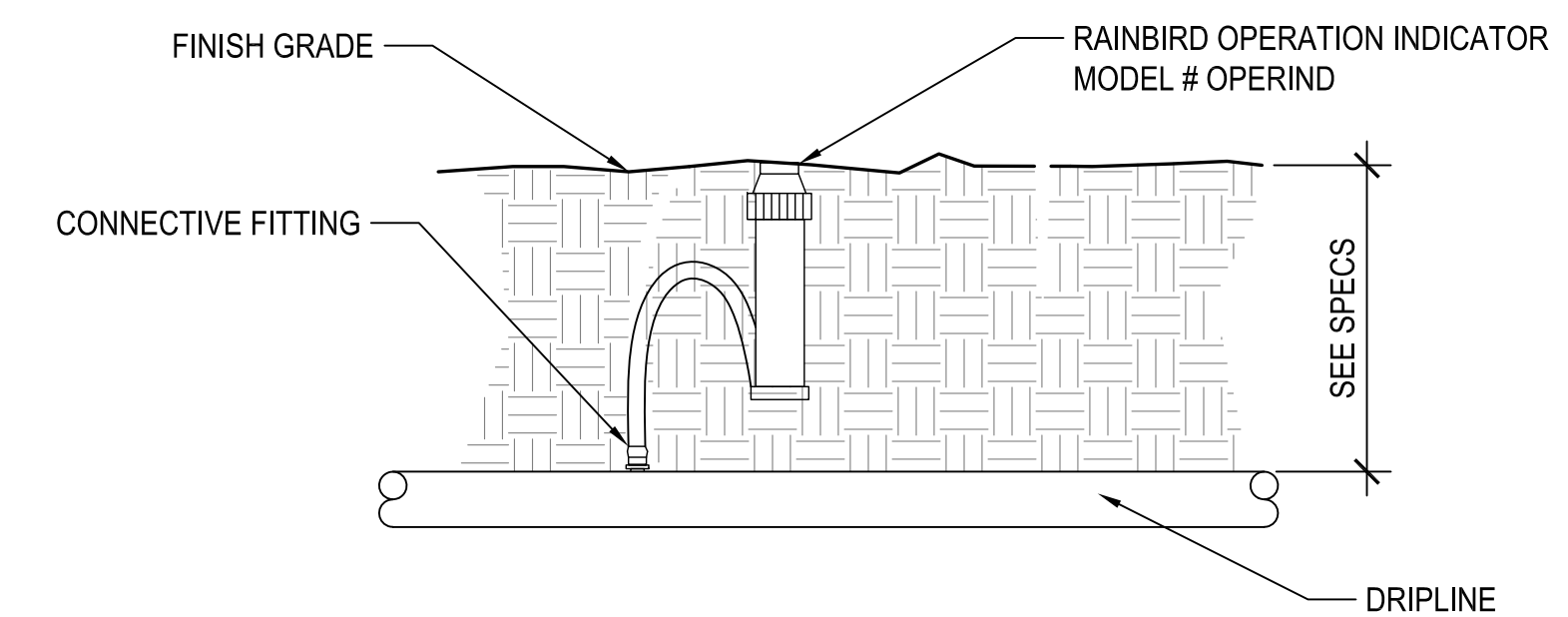
2

### AUTO FLUSH VALVE

SCALE: 3" = 1'-0"

NOTE:

1. LOCATE INDICATOR AT THE FARTHEST AND/OR HIGHEST POINT ON THE ZONE.



8

### DRIP OPERATION INDICATOR

NTS

# DUNPHY PARK

## SAUSALITO, CALIFORNIA

PROJECT/CLIENT NAME

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

REGISTRATION AND SIGNATURE



SHEET TITLE  
**NOTES AND ABBREVIATIONS**

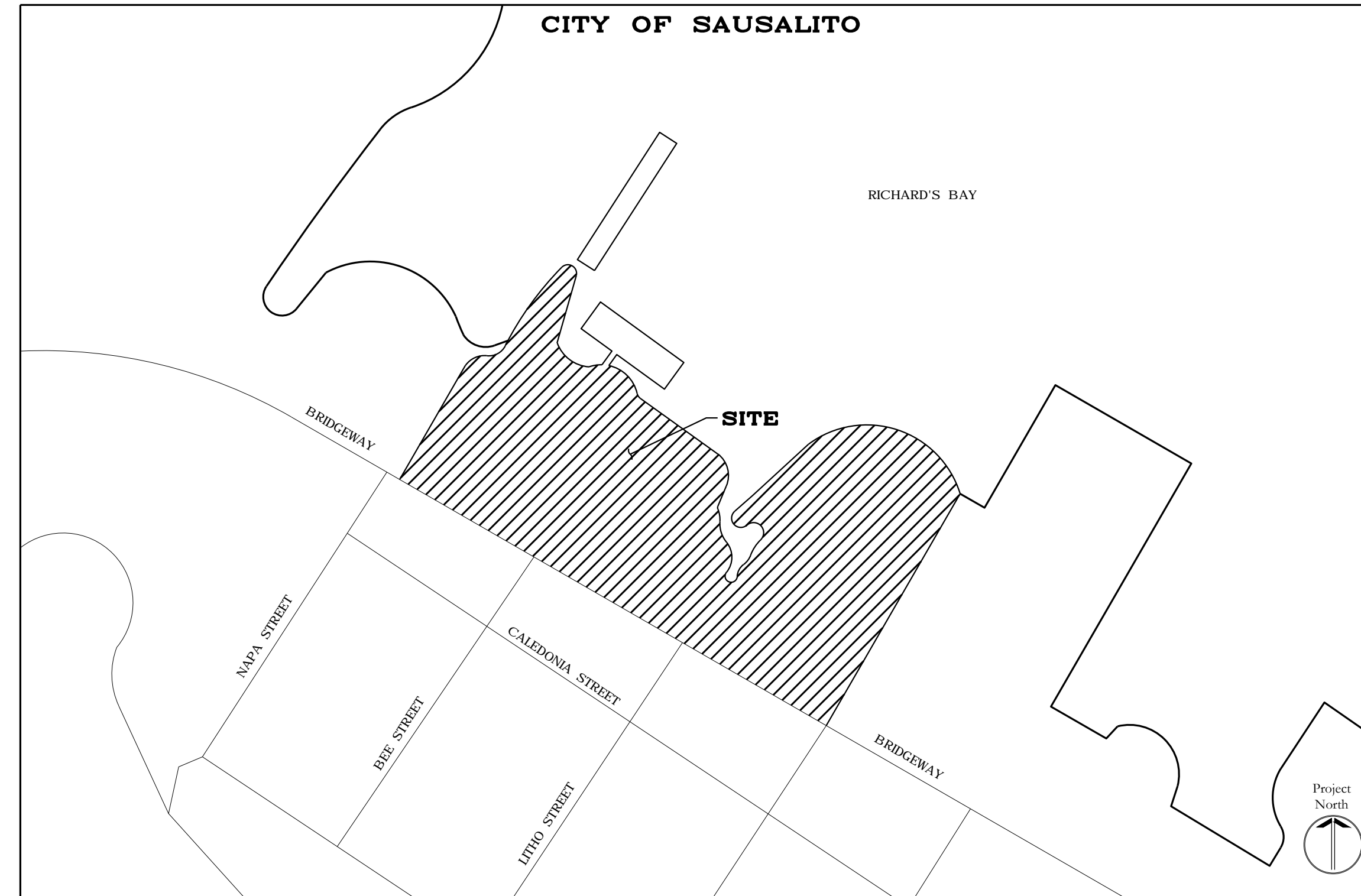
DRAWN BY: JG CHECKED BY: MW

**C0.0**

#### GENERAL NOTES

- THE DESIGN SHOWN IN THESE DOCUMENTS WAS BASED ON THE FOLLOWING:
  - CITY OF SAUSALITO CODE ORDINANCES.
  - ALL GUIDELINES AS SET FORTH BY THE GEOTECHNICAL STUDY REPORT: DUNPHY PARK IMPROVEMENTS BY RGH CONSULTANTS, DATED JUN 9, 2015, ADDENDUM NO. 1, DATED AUGUST 22, 2017.
  - THE GEOTECHNICAL REPORT SHALL BE INCLUDED AS PART OF THE WORKING DOCUMENTS AND THE CONTRACTOR SHALL FOLLOW ALL RECOMMENDATIONS OF THIS REPORT.
  - REQUIREMENTS OF ALL PERMITS APPLICABLE TO THIS PROJECT.
- TOPOGRAPHIC BASE SURVEY AS ILLUSTRATED ON THESE PLANS BY LINDA A. CARRUTHERS & ASSOCIATES, DATED DECEMBER 9, 2013 AND REVISED JUNE 15, 2017.
- THE SUBSURFACE OF THE CONSTRUCTION SITE MAY BE SENSITIVE FOR PALEONTOLOGICAL RESOURCES. IF PALEONTOLOGICAL RESOURCES ARE ENCOUNTERED DURING PROJECT SUBSURFACE CONSTRUCTION, ALL GROUND-DISTURBING ACTIVITIES WITHIN 50 FEET SHALL BE REDIRECTED AND THE COMMUNITY DEVELOPMENT AGENCY, PLANNING DIVISION SHALL BE CONTACTED, AS WELL AS OTHER CONSULTING AGENCIES AS APPROPRIATE, AND A QUALIFIED PALEONTOLOGIST TO ASSESS THE SITUATION, AND MAKE RECOMMENDATIONS FOR THE TREATMENT OF THE DISCOVERY. PROJECT PERSONNEL SHALL NOT COLLECT OR MOVE ANY PALEONTOLOGICAL MATERIALS. PALEONTOLOGICAL RESOURCES INCLUDE FOSSIL PLANTS AND ANIMALS, AND SUCH TRACE FOSSIL EVIDENCE OF PAST LIFE AS TRACKS, ANCIENT MARINE SEDIMENTS MAY CONTAIN INVERTEBRATE FOSSILS SUCH AS SNAILS, CLAM AND OYSTER SHELLS, SPONGES, AND PROTOZOA, AND VERTEBRATE FOSSILS SUCH AS FISH, WHALE, AND SEA LION BONES. VERTEBRATE LAND MAMMALS MAY INCLUDE BONES OF MAMMOTH, CAMEL, SABER-TOOTH CAT, HORSE, AND BISON. PALEONTOLOGICAL RESOURCES ALSO INCLUDE PLANT IMPRINTS, PETRIFIED WOOD, AND ANIMAL TRACKS.
- IF HUMAN REMAINS ARE ENCOUNTERED DURING PROJECT ACTIVITIES, WORK WITHIN 50 FEET OF THE DISCOVERY SHALL BE REDIRECTED AND THE TOWN CORONER NOTIFIED IMMEDIATELY. AT THE SAME TIME, AN ARCHAEOLOGIST SHALL BE CONTACTED TO ASSESS THE SITUATION AND CONSULT WITH AGENCIES AS APPROPRIATE. PROJECT PERSONNEL SHALL NOT COLLECT OR MOVE ANY HUMAN REMAINS AND ASSOCIATED MATERIALS. IF THE HUMAN REMAINS ARE OF NATIVE AMERICAN ORIGIN, THE CORONER MUST NOTIFY THE NATIVE AMERICAN HERITAGE COMMISSION WITHIN 24 HOURS OF THIS IDENTIFICATION. THE NATIVE AMERICAN HERITAGE COMMISSION WILL IDENTIFY A MOST LIKELY DESCENDANT (MLD) TO INSPECT THE SITE AND PROVIDE RECOMMENDATIONS FOR THE PROPER TREATMENT OF THE REMAINS AND ASSOCIATED GRAVE GOODS.

5. IMPROVEMENTS WITHIN THE PUBLIC RIGHT OF WAY SHALL CONFORM TO THE CITIES AND COUNTY OF MARIN "UNIFORM CONSTRUCTION STANDARDS."



#### LOCATION MAP

NTS

#### GRADING NOTES

- ALL GRADING AND DRAINAGE TO COMPLY WITH RECOMMENDATIONS IN SOILS REPORT ENTITLED "GEOTECHNICAL STUDY REPORT: DUNPHY PARK IMPROVEMENTS", BY RGH CONSULTANTS, DATED: JUNE 9, 2015.
- ALL GRADING SHALL CONFORM WITH THE CITY OF SAUSALITO CODE ORDINANCES.
- THE CONTRACTOR OR ANY SUBCONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT ONE CALL PROGRAM 48 HOURS IN ADVANCE OF PERFORMING EXCAVATION WORK BY CALLING THE TOLL-FREE NUMBER 800-227-2600. EXCAVATION IS BEING 18 OR MORE INCHES IN DEPTH BELOW THE EXISTING GROUND.
- ACTUAL GRADING SHALL BEGIN WITHIN 30 DAYS OF VEGETATION REMOVAL OR THE AREA SHALL BE PLANTED TO CONTROL EROSION. SURFACE PLANT GROWTH ONLY, WHICH DOES NOT EXCEED 4 INCHES IN DEPTH.
- CONTRACTOR SHALL NOTIFY THE CITY 48 HOURS PRIOR TO THE INTENTION TO COMMENCE WORK.
- A COPY OF ALL COMPACTION TESTS AND FINAL GRADING REPORT SHALL BE SUBMITTED TO THE CITY PRIOR TO SCHEDULING ANY INSPECTIONS.
- PERMANENT CUT AND FILL SLOPES SHALL BE NO STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2H:1V) PER GEOTECHNICAL ENGINEER'S REPORT. TEMPORARY CUT SLOPES SHALL BE REVIEWED AND APPROVED BY GEOTECHNICAL ENGINEER.
- PROVIDE 5 FT OF 2% MINIMUM SLOPE FOR PAVED AREAS. MINIMUM SLOPE FOR SOFTSCAPE AREAS AWAY FROM BUILDINGS ON ALL SIDES PER GEOTECH REPORT UNLESS NOTED OTHERWISE.
- SOIL COMPACTION SHALL BE AS NOTED IN THE GEOTECHNICAL REPORT.
- THE CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- TREE PROTECTION FENCING SHALL BE INSTALLED IN ACCORDANCE WITH PROJECT SCOPE PRIOR TO CONSTRUCTION. SEE LANDSCAPE PLAN.
- GRADING OR ANY OTHER OPERATION THAT CREATES DUST SHALL BE STOPPED IMMEDIATELY IF DUST AFFECTS ADJACENT PROPERTIES. MUD TRACKED ONTO STREETS OR ADJACENT PROPERTIES SHALL BE REMOVED IMMEDIATELY AS DIRECTED BY A TOWN INSPECTOR.
- THIS PLAN REFERENCES AN EXISTING TOPOGRAPHIC SURVEY PREPARED BY LINDA A. CARRUTHERS & ASSOCIATES, DATED DECEMBER 9, 2013. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF EXISTING TOPOGRAPHICAL INFORMATION PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION.
- CONTRACTOR TO DEVELOP CONSTRUCTION PHASING AND ACCESS PLAN TO ENSURE VEHICULAR TRAFFIC DOES NOT CAUSE OVERCOMPACTION OF SUBGRADES AT PROPOSED PREVIOUS PAVEMENT AREAS. CONTRACTOR TO CONDUCT COMPACTION TESTING OF FINISHED SUBGRADES WITHIN ALL PREVIOUS PAVEMENT AREAS PRIOR TO PLACING PAVING MATERIAL AND PROVIDE PASSING RESULTS TO CIVIL ENGINEER FOR APPROVAL.

#### SURVEY NOTES

- THE BASIS OF BEARINGS FOR THIS SURVEY IS NORTH 58°39'36" WEST BETWEEN FOUND STD. CITY MONUMENTS ON BRIDGEWAY AS SHOWN HEREON.
- THE BENCHMARK USED FOR THIS SURVEY IS A 2.5" BRASS DISK SET IN THE CENTER LINE ISLAND OF NAPA STREET AND BRIDGEWAY, HAVING AN ELEVATION OF 13.67 FEET NAVD 1988.
- THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN THE TOPOGRAPHICAL SURVEY ARE APPROXIMATE AND OBTAINED FROM SOURCES OF VARYING RELIABILITY. ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS, AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, THE ENGINEER CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED, BUT WHICH ARE NOT SHOWN ON THIS SURVEY.
- THE CONTRACTOR AND/OR OWNER SHALL PROVIDE ALL SURVEYING AND STAKING NECESSARY FOR THE ENTIRE PROJECT.
- AFTER ALL PERMITS ARE OBTAINED, THE CIVIL ENGINEER WILL PROVIDE THE CONTRACTOR WITH DIGITAL FILES OF LAYOUT PLANS FOR STAKING PURPOSES.

#### UTILITY NOTES

- AVAILABLE INFORMATION CONCERNING THE EXTENT AND LOCATION OF EXISTING UTILITIES IS SHOWN ON THE PLAN, BUT CONTRACTOR IS CAUTIONED IT DOES NOT NECESSARILY REPRESENT ACTUAL UTILITY LOCATIONS SIZES OR MATERIALS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES, INCLUDING BUT NOT LIMITED TO, WATER, SEWER, ELECTRIC, COMMUNICATIONS, GAS, AND STORM DRAIN, PRIOR TO COMMENCING EXCAVATION OR BELOW GRADE DEMOLITION.
  - CONTACT UNDERGROUND UTILITY LOCATOR TO HAVE UTILITIES LOCATED AND MARKED NOT LESS THAN 2 WORKING DAYS, AND NOT MORE THAN 14 WORKING DAYS PRIOR TO EXCAVATION.
  - AS NOTED ON THE PLANS, POTHOLING MAY BE REQUIRED IN SOME AREAS TO CONFIRM THAT MINIMUM REQUIRED VERTICAL CLEARANCES CAN BE ACHIEVED.
- PIPE MATERIALS AND METHODS OF INSTALLATION, INCLUDING TRENCH EXCAVATION AND BACKFILL, SHALL BE IN ACCORDANCE WITH THE APPLICABLE DETAILS PER PLAN AND WITH ALL APPLICABLE MANUFACTURER'S RECOMMENDATIONS.
- PIPES SHALL BE LAID TRUE TO PROPOSED LINE AND GRADE, WITH NO HORIZONTAL DEVIATIONS OR BELLIES. ALL PIPE JOINTS SHALL BE TIGHT AND FULLY SEALED, SO AS TO ACHIEVE WATER-TIGHT OR SOIL-TIGHT JOINTS, AS APPROPRIATE FOR THE SPECIFIC PIPE TYPE.
- PROPOSED UTILITY STRUCTURES SHALL CONFORM TO THE DETAILS SHOWN ON THE PLANS, AND SHALL BE INSTALLED VERTICALLY PLUMB ON A FULLY COMPACTED BASE. STRUCTURES SHALL BE BACKFILLED IN ACCORDANCE WITH THE APPLICABLE DETAIL PER PLAN, AND THE TOP OF EACH STRUCTURE SHALL BE SET SO ALL EXPOSED PORTIONS (FRAME, GRATE, COVER, ETC.) CONFORM TO ADJACENT GRADE UNLESS OTHERWISE NOTED.
- ALL WORK PERFORMED TO RESET EXISTING UTILITY BOXES OR STRUCTURES TO PROPOSED GRADE SHALL BE IN ACCORDANCE WITH THE RESPECTIVE OWNER'S (UTILITY COMPANY OR AGENCY) STANDARDS AND REQUIREMENTS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING EACH UTILITY OWNER'S APPROVAL UPON COMPLETION. AS APPLICABLE IN THE EVENT AN EXISTING STRUCTURE IS BROKEN OR OTHERWISE DAMAGED BEYOND THE POINT OF REUSE, IT SHALL BE REPLACED OR RETROFITTED AS DIRECTED BY THE RESPECTIVE UTILITY OWNER.
- IF A UTILITY OWNER REQUIRES THAT ALL WORK RELATING TO A SPECIFIC BOX RETROFIT OR REPLACEMENT BE EXECUTED BY ITS OWN FORCES OR BY A SEPARATE, UTILITY-CERTIFIED CONTRACTOR, THE CONTRACTOR SHALL PROVIDE INFORMATION TO AND COORDINATE WITH THAT OWNER, TO THE EXTENT NECESSARY TO FULLY FACILITATE THE RECONSTRUCTION WORK.
- ALL STORM DRAIN INLETS AND CATCH BASINS SHALL BE IMPRINTED WITH "NO DUMPING, DRAINS INTO THE BAY" USING THERMOPLASTIC OR PERMANENTLY EMBOSSED INTO THE FACILITY.
- PRIOR TO APPROVAL FROM THE CITY OF SAUSALITO'S SEWER SYSTEM COORDINATOR, NO BACKFILL OF THE SANITARY SEWER LATERAL OR MAIN TRENCH SHALL OCCUR.

#### SHEET LIST

- C0.0 NOTES AND ABBREVIATIONS
- C1.0 SITE IMPROVEMENT PLAN
- C2.0 GRADING PLAN
- C2.1 GRADING PLAN
- C2.2 SUBGRADE PLAN
- C3.0 DRAINAGE AND UTILITY PLAN
- C3.1 DRAINAGE AND UTILITY PLAN
- C4.0 DETAILS
- C4.1 DETAILS
- C4.2 DETAILS
- C5.0 EROSION CONTROL PLAN
- C5.1 EROSION CONTROL DETAILS
- C5.2 EROSION CONTROL DETAILS
- C5.3 EROSION CONTROL DETAILS

#### ABBREVIATIONS

AB	AGGREGATE BASE	MIN	MINIMUM
AC	ASPHALT CONCRETE	N	NORTH
AD	AREA DRAIN	OC	ON CENTER
ADA	AMERICANS WITH DISABILITIES ACT	(P)	PROPOSED
BC	BOTTOM OF CURB	PA	PLANTED AREA
BS	BOTTOM OF STEP	PED	PEDESTRIAN
BW	BOTTOM OF WALL / BACK OF WALK	PIP	PROTECT IN PLACE
C&G	CURB & GUTTER	PL	PROPERTY LINE
CB	CATCH BASIN	POC	POINT OF CONNECTION
CF	CUBIC FEET	PSI	POUNDS PER SQUARE INCH
CL	CENTERLINE	PVMT	PAVEMENT
CO	CLEAN OUT	RCP	REINFORCED CONCRETE PIPE
CONC	CONCRETE	RET	RETAINING
DI	DRAINAGE INLET	RIM	TOP OF STRUCTURE GRATE / COVER
DS	DOWN SPOUT	RW	RAINWATER
DW	DOMESTIC WATER	RWL	RAINWATER LEADER
E	EAST	S	SLOPE
(E)	EXISTING	SAP	SEE ARCHITECTURAL PLANS
EB	ELECTRICAL BOX	SCO	SOFTSCAPE CLEANOUT
EC	END CURVE	SD	STORM DRAIN
EL, ELEV	ELEVATION	SDE	SHERWOOD DESIGN ENGINEERS
ELEC	ELECTRIC	SDMH	STORM DRAIN MANHOLE
EP	EDGE OF PAVEMENT	SEP	SEE ELECTRICAL PLANS
EVA	EMERGENCY VEHICLE ACCESS	SF	SQUARE FEET
FC	FACE OF CURB	SG	SUBGRADE
FEMA	FEDERAL EMERGENCY MANAGEMENT AGENCY	SLP	SEE LANDSCAPE PLANS
FFE	FINISHED FLOOR ELEVATION	SMP	SEE MECHANICAL PLANS
FG	FINISH GRADE	SPD	SEE PLUMBING DRAWINGS
FH	FIRE HYDRANT	SPRK	FW SPRINKLER LINE
FL	FLOWLINE	SQ	SQUARE
FS	FINISH SURFACE	SS	SANITARY SEWER
FT	FEET	SSCO	SANITARY SEWER CLEAN OUT
FW	FIRE WATER	SSMH	SANITARY SEWER MANHOLE
G	GAS	SSP	SEE STRUCTURAL PLANS
GB	GRADE BREAK	STD	STANDARD
GM	GAS METER	SW	SIDEWALK
GV	GATE VALVE	TB	TOP OF BANK
GW	GRAY WATER	TBD	TO BE DETERMINED
HP	HIGH POINT	TBM	TEMPORARY BENCHMARK
HT	HEIGHT	TBR	TO BE REMOVED
INV	INVERT OF PIPE OR CHANNEL	TC	TOP OF CURB
IRR	IRRIGATION	TD	TRENCH DRAIN
JB	JUNCTION BOX	TEL	TELEPHONE
JP	JOINT POLE	TEMP	TEMPORARY
LA	LANDSCAPE ARCHITECT	TG	TOP OF GRATE
LF	LINEAR FEET	TS	TOP OF STEP
LP	LIGHT POLE / LOW POINT	TW	TOP OF WALL
LT	LEFT	TYP	TYPICAL
MAX	MAXIMUM	UG	UNDERGROUND
MH	MANHOLE	W	WATER
		WALK	WALKWAY/SIDEWALK
		WM	WATER METER
		WS	WATER SURFACE

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

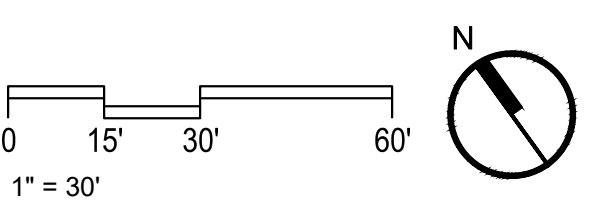
DATE

21 August 2017

REVISIONS

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

REGISTRATION AND SIGNATURE



### SHEET TITLE SITE IMPROVEMENT PLAN

DRAWN BY: JG CHECKED BY: MW

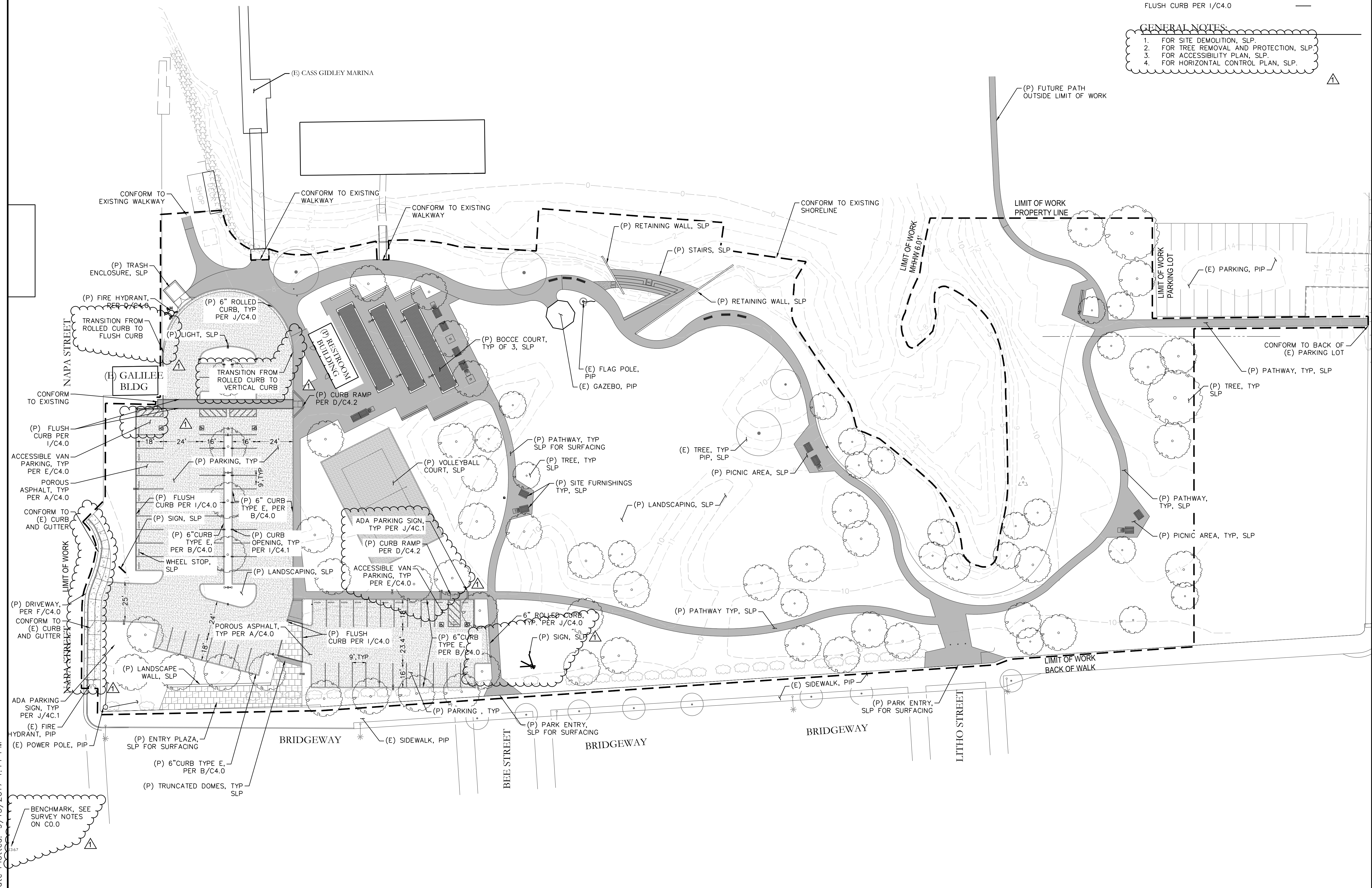
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#### LEGEND

LIMITS OF WORK	--- ---
POROUS PATHWAY, SLP	▬
POROUS ASPHALT	▬
PERMEABLE PAVERS, SLP	▬
FLUSH CURB PER 1/C4.0	—

#### GENERAL NOTES:

1. FOR SITE DEMOLITION, SLP.
2. FOR TREE REMOVAL AND PROTECTION, SLP.
3. FOR ACCESSIBILITY PLAN, SLP.
4. FOR HORIZONTAL CONTROL PLAN, SLP.



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