

Exhibit 1
Alameda Point Partners Site
A - Waterfront Park
Public Art Application

Artist: Dewitt Godfrey

Artwork: Beken

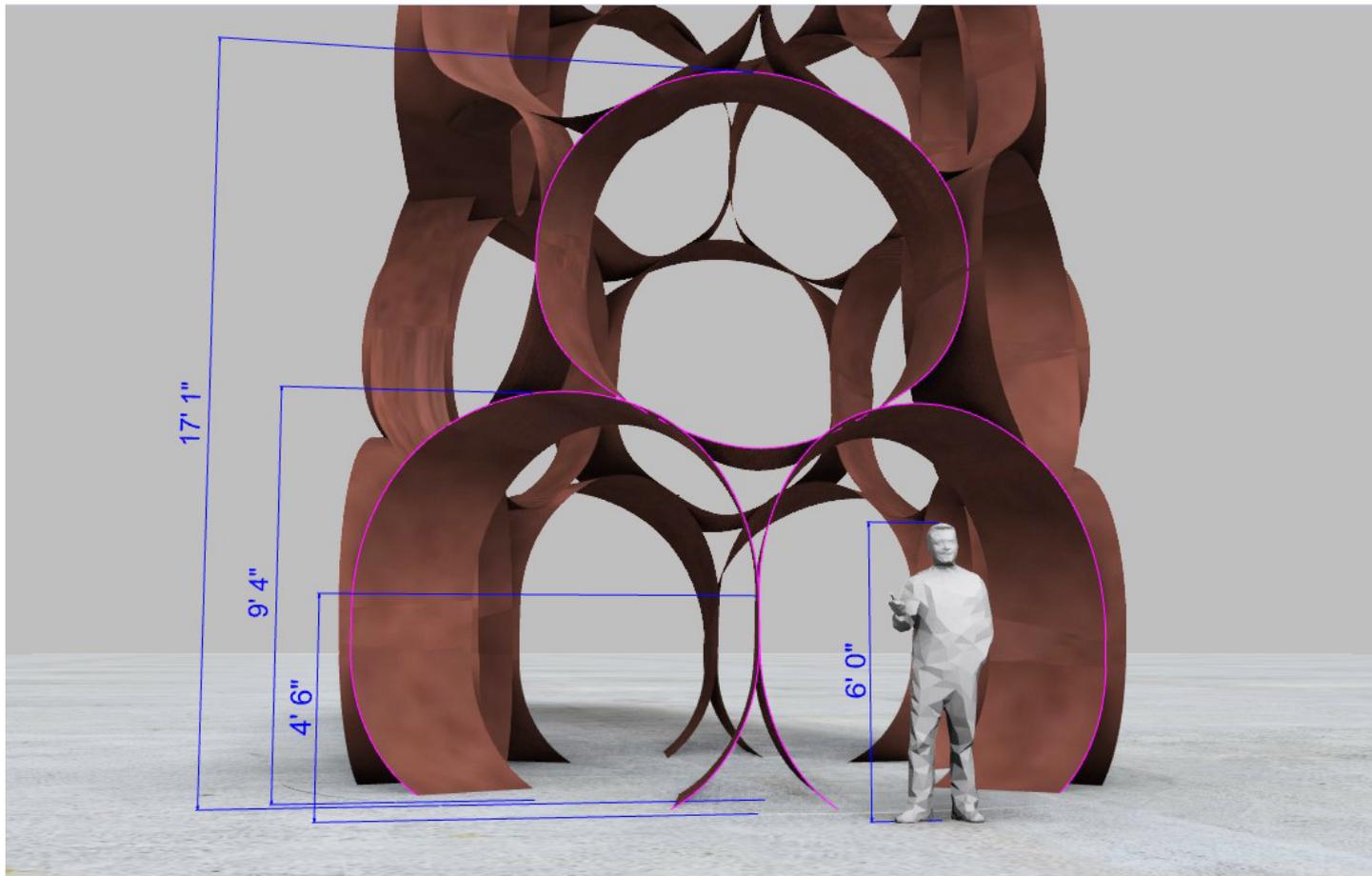
A Corten steel sculpture made up of 57 frusta ranging in diameter from 112" to 28"

17'Wx16'Lx32'H

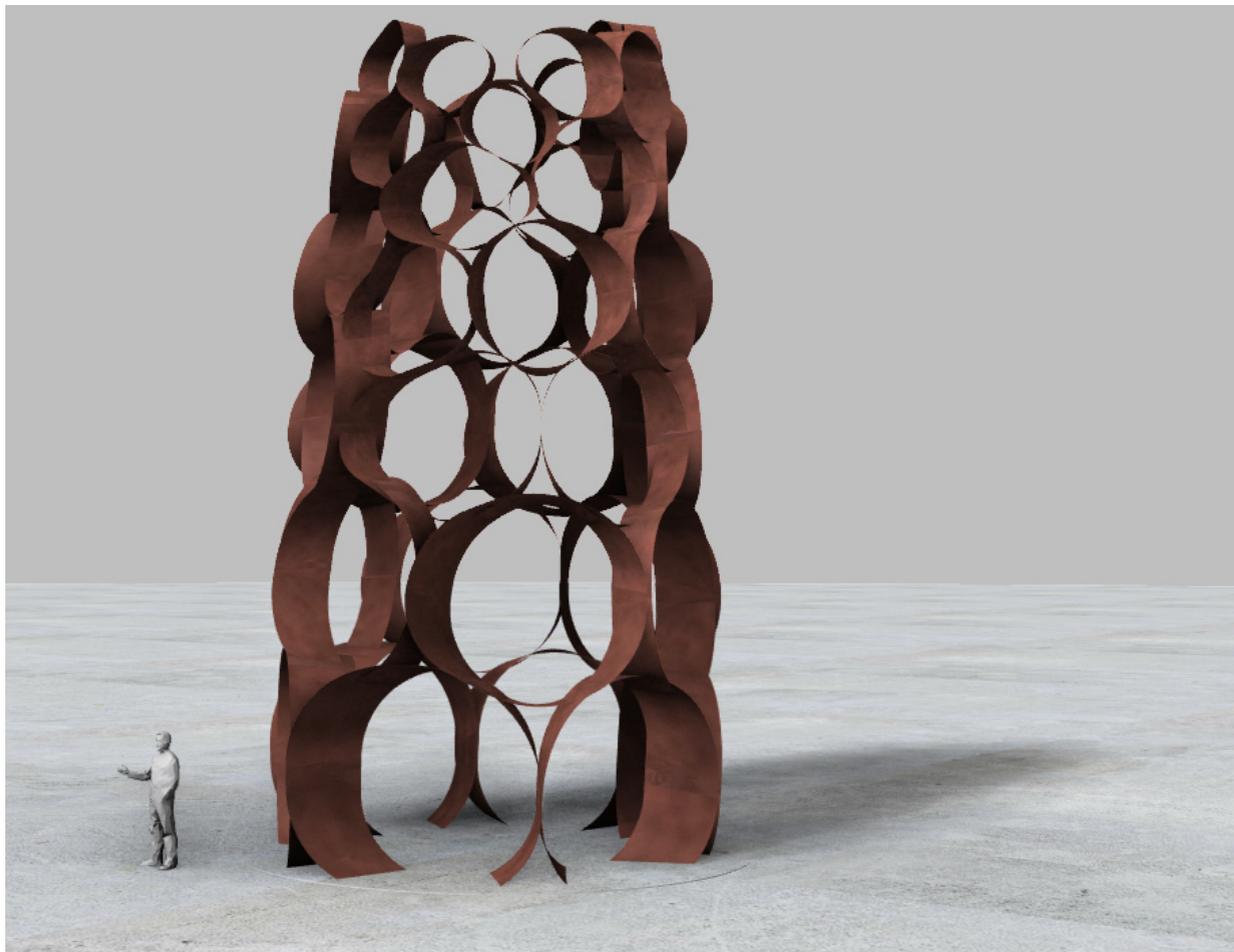
Budget: \$200,000

Development Site Plan and Project Design

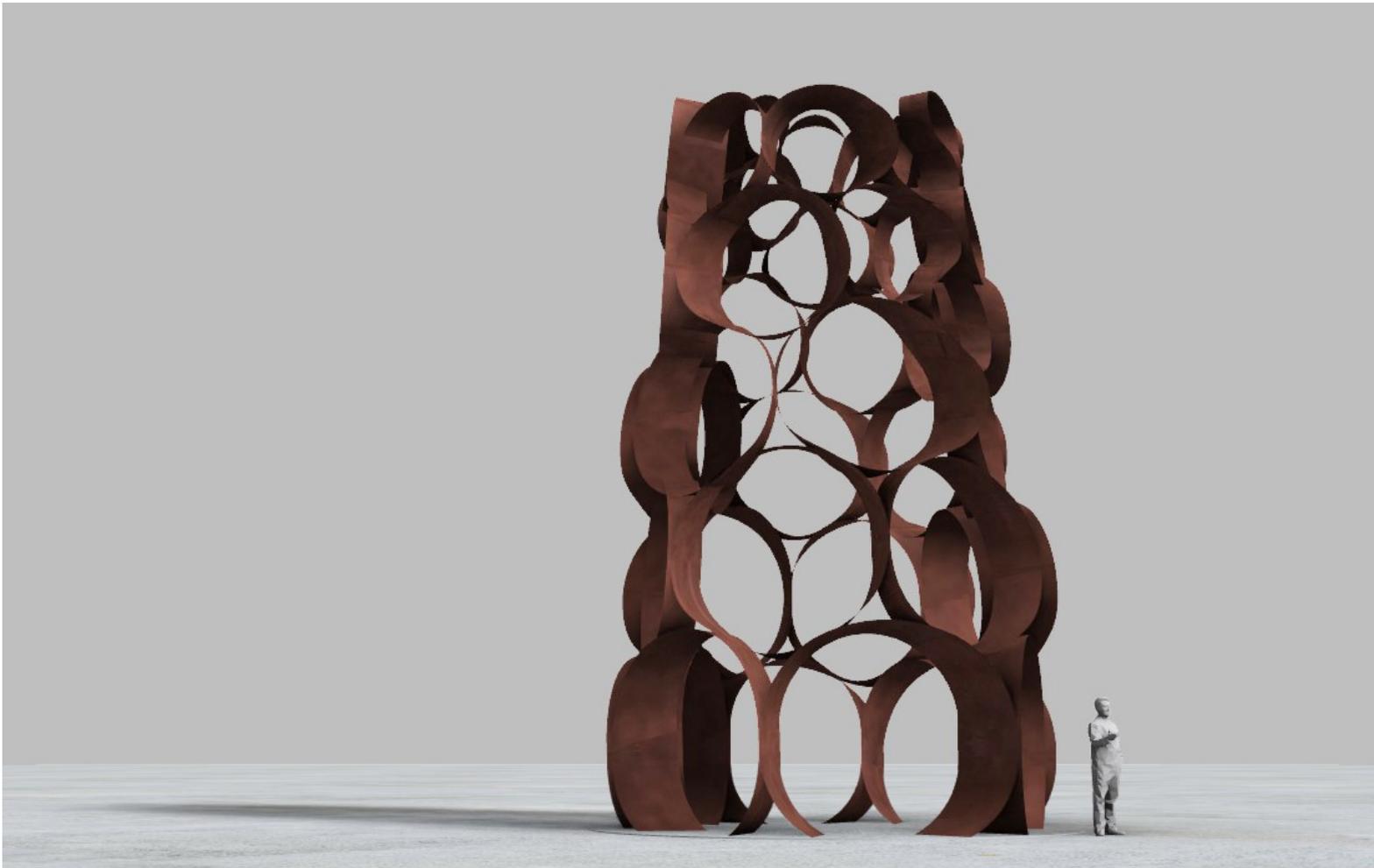
Please note that the first three renderings (p3-5) show the revised sculpture design, with increased diameters for the bottom cells. The additional renderings (p7-11) show the original design, in context.



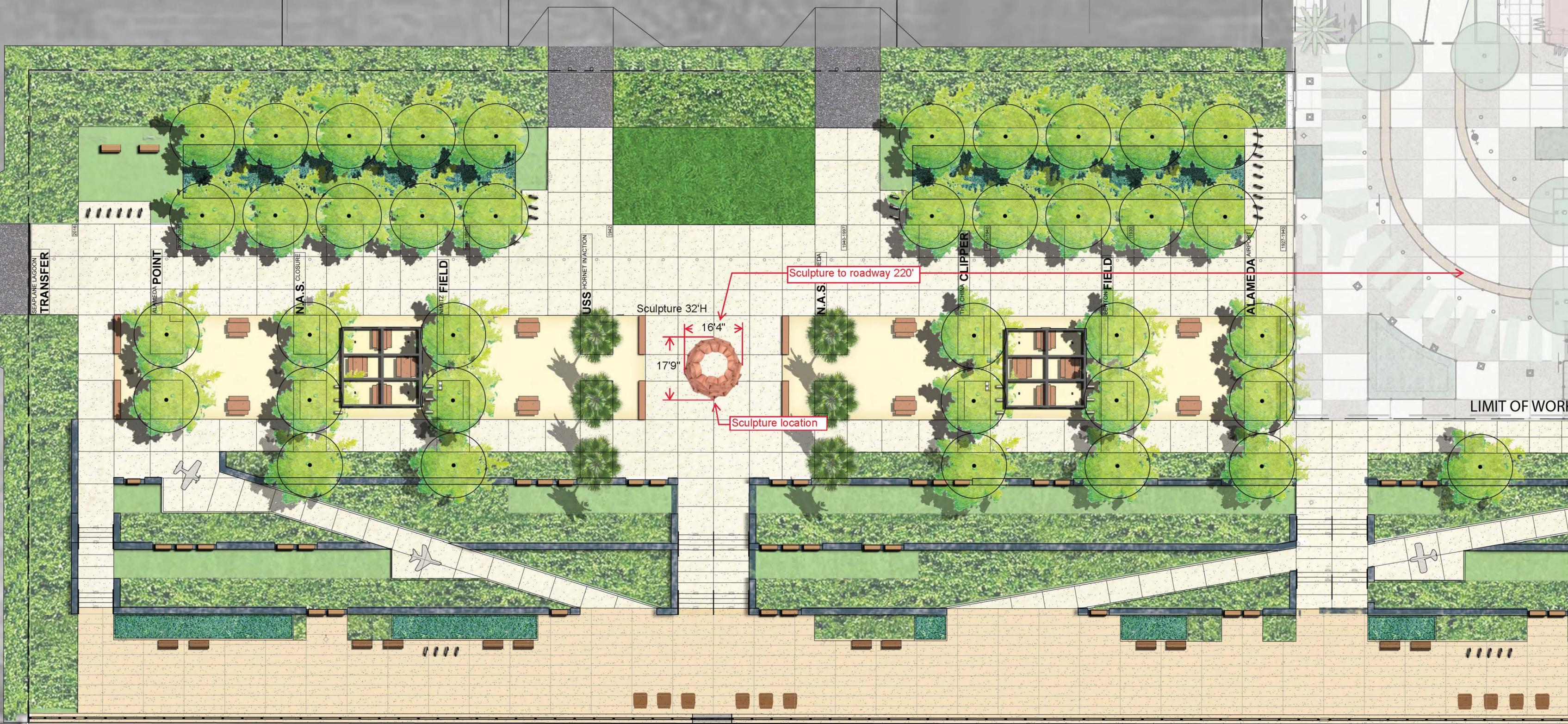
DeWitt Godfrey, *Beken*,



DeWitt Godfrey, *Beken*,



DeWitt Godfrey, *Beken*,



Beken
DeWitt Godfrey
Alameda Point, Waterfront Park



Beken
DeWitt Godfrey
Alameda Point, Waterfront Park



Beken
DeWitt Godfrey
Alameda Point, Waterfront Park

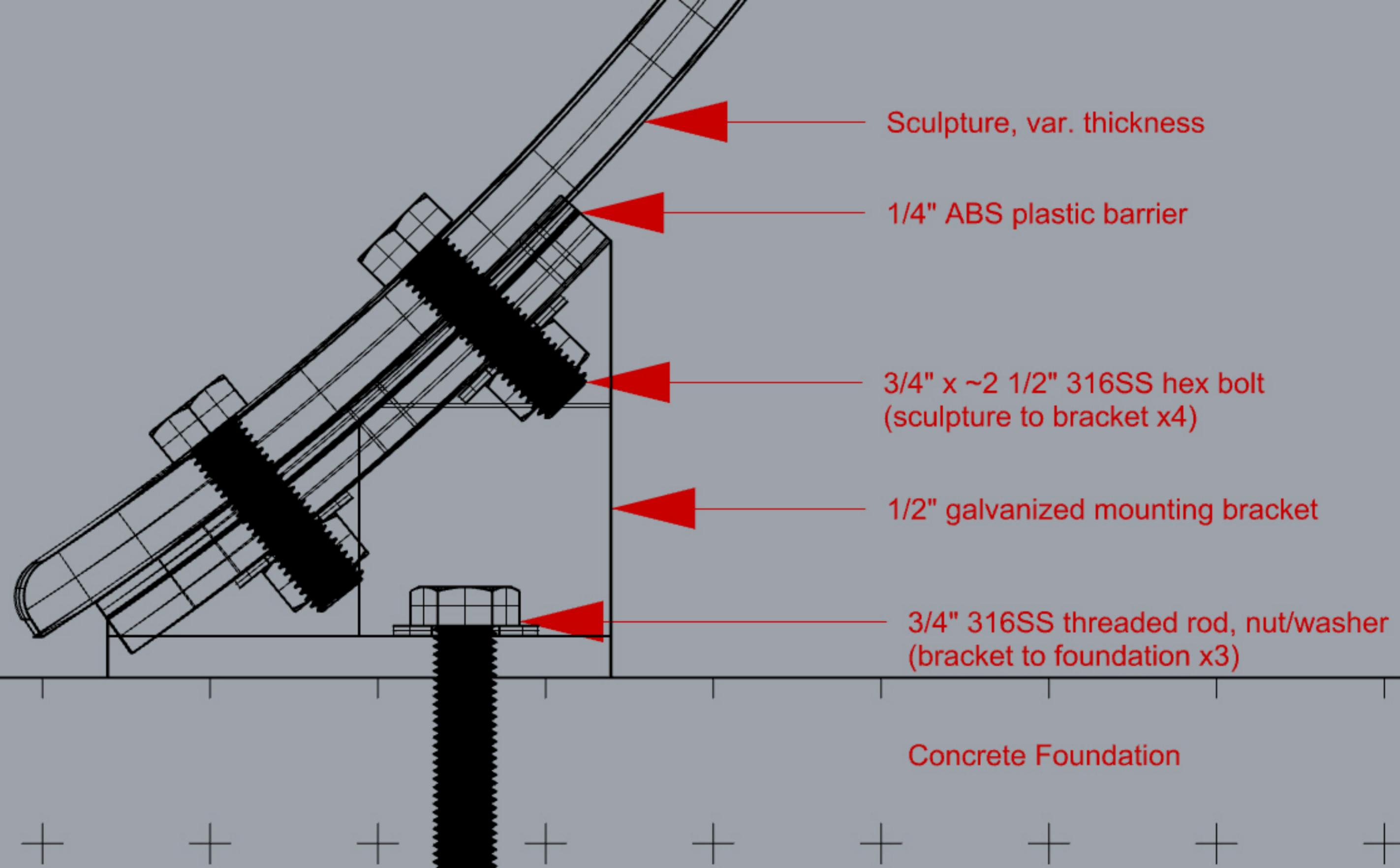


Beken
DeWitt Godfrey
Alameda Point, Waterfront Park



Beken
DeWitt Godfrey
Alameda Point, Waterfront Park





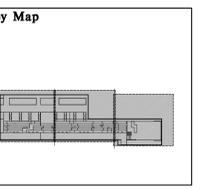
Alameda Point Waterfront Park Landscape Plans

ALAMEDA POINT
WATERFRONT PARK
 Alameda Point Block 5 Alameda, California



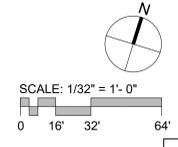
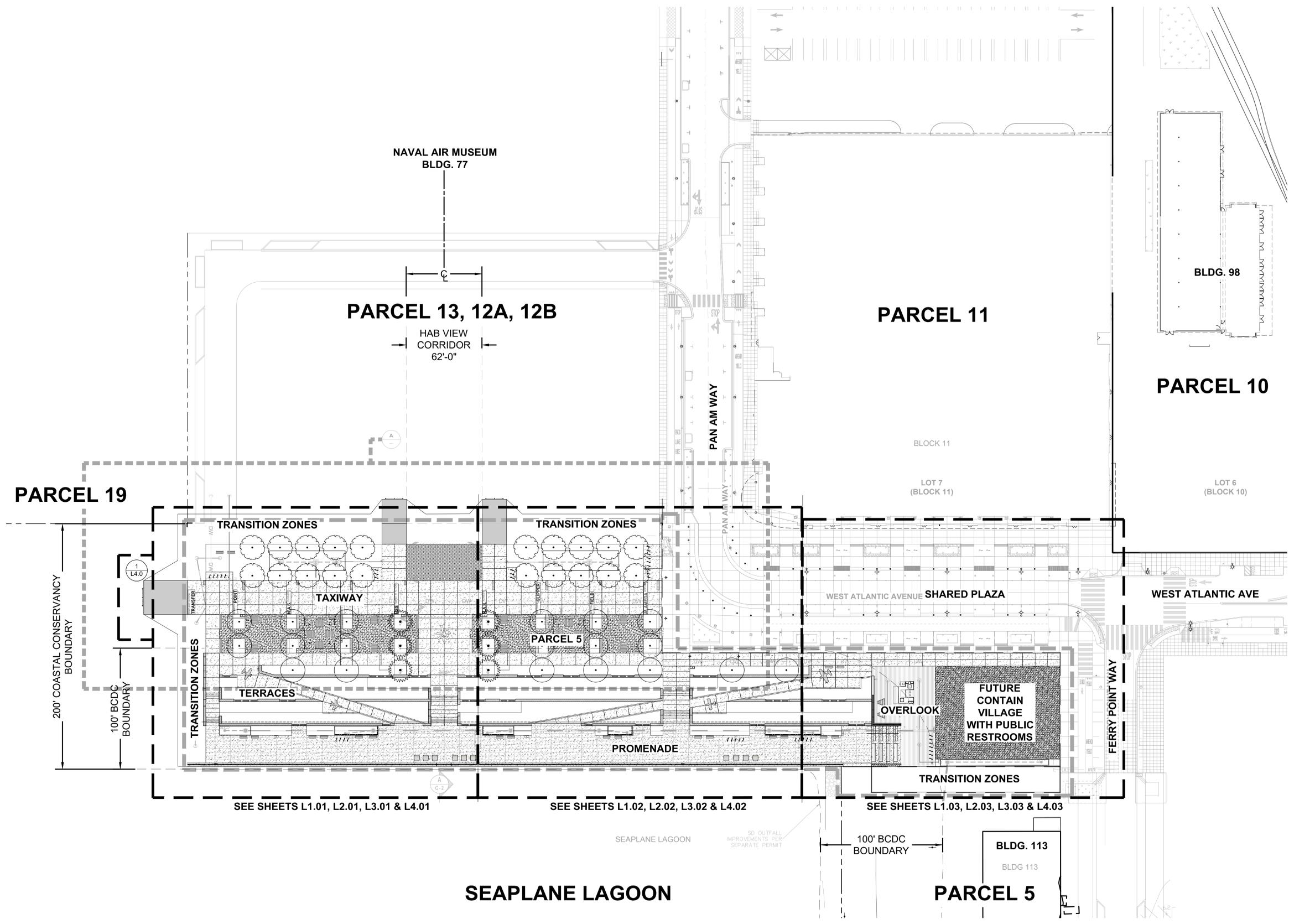
Date: February 13, 2020
 Project Number: 18dw285
 Drawn by: CK, SY, GY
 Checked by: AP, CH
 Scale: As Noted

PROJECT STATUS	
PRICING	8/15/16
PERMIT	9/19/16
PERMIT	11/22/16
PRICING	1/30/20
PERMIT	2/13/20



Sheet Title:
Key Map Plan

L0.02



NOT FOR CONSTRUCTION

MATERIALS SCHEDULE

CALLOUT	SYMBOL	DESCRIPTION	DETAIL	MANUFACTURER	PRODUCT	MATERIAL / COLOR / FINISH	SIZE	QTY.	SPEC.	NOTES
PAVING										
PV-1		STAMPED "WOOD" CONCRETE	7/L6.01	PROLINE CONCRETE TOOLS OR EQUAL	PEDESTRIAN CONCRETE W/ CONCRETE STAMP TOOL	CONCRETE/ INTEGRAL COLOR: "BROWN 1" STAMPED W/ WOOD PLANK PATTERN; MULTI COLOR FINISH IN STAMP PATTERN	6" W X 96"L PATTERN	3,417 S.F.	32 13 16	PATTERN TO BE "RANDOM BOARDWALK WOOD PLANK 6" WITH KNOTS CONCRETE STAMP" ADD AREA DRAINS (ORIGINALLY SUBSURFACE DRAINS) / COLOR IS TO HAVE MULTIPLE ACCENT TONES PER IMAGE
PV-2		CONCRETE PAVING WITH SCORE PATTERN	1,3/L6.01	DAYTON SUPERIOR	PEDESTRIAN CONCRETE W/ "MEDIUM SANDBLAST" FINISH	CONCRETE/ NATURAL/ GRACE TOP CAST 05- SANDBLAST	4" THICK ; PATTERN AS SHOWN	15,718 S.F.	32 13 16	WWW.DAYTONSUPERIOR.COM OR EQUAL / ALTERNATE: CONCRETE W/ BROOM FINISH
PV-3		CONCRETE WITH ACID ETCH & SANDBLAST FINISH	1,2,3/L6.01	DAYTON SUPERIOR	PEDESTRIAN CONCRETE W/ "ACID ETCH" FINISH	CONCRETE/ NATURAL/ GRACE TOP CAST 03- ACID ETCH	4" THICK ; PATTERN AS SHOWN	29,537 S.F.	32 13 16	WWW.DAYTONSUPERIOR.COM OR EQUAL / ALTERNATE: CONCRETE W/ BROOM FINISH
PV-4		CONCRETE STAIRS	1,4/L6.02	DAYTON SUPERIOR	CONCRETE W/ "SANDBLAST" FINISH	CONCRETE; NATURAL COLOR / GRACE TOP CAST 05- SANDBLAST	-	-	32 13 16	WWW.DAYTONSUPERIOR.COM OR EQUAL
PV-5		STEPS AND AMPHITHEATER STYLE SEATING	4,5,7/L6.02	-	REDWOOD / CONCRETE	NATURAL COLOR WOOD / MEDIUM SANDBLAST CONCRETE	-	-	32 13 16	
PV-6		DECOMPOSED GRANITE (PEDESTRIAN)	4,5/L6.01	LYNGSO GR AMERICAN SOIL	PEDESTRIAN STABILIZED DECOMPOSED GRANITE	DECOMPOSED GRANITE / COLOR: GOLD / STABILIZED	4" THICK; 4" AGG. BASE	2,174 S.F.	32 14 40	PREMIXED WITH PHP ORGANIC BINDER AS AVAILABLE FROM TMT ENTERPRISES (408) 432-9040 DG AREAS IN WATERFRONT PARK
PV-7		DECOMPOSED GRANITE (AT CONTAINERS)	4,5/L6.01	LYNGSO GR AMERICAN SOIL	VEHICULAR STABILIZED DECOMPOSED GRANITE	DECOMPOSED GRANITE / COLOR: GOLD / STABILIZED	6" THICK; 6" AGG. BASE	7,902 S.F.	32 14 40	PREMIXED WITH PHP ORGANIC BINDER AS AVAILABLE FROM TMT ENTERPRISES (408) 432-9040 DG AREAS IN CONTAINER PARK
PV-8		PAVEMENT MARKING	1/L6.09	DECOMARK	DAINED HISTORIC TIMELINE INDUSTRIAL RUNWAY PAINT	PREFORMED THERMOPLASTIC / COLOR: VARIES (SEE DETAIL) / NON SLIP	SEE DETAILS	-	TBD	DECOPAVEMENT; www.decopavement.net ; OR EQUAL
PV-9		SYNTHETIC TURF	8/L6.01	SYNLAWN	SYNFESCUE 254	SYNTHETIC LAWN WITH BIOCEL BACKING / GREEN	-	1,864 S.F.	32 18 13	SYNLAWN; www.synlawn.com OR EQUAL WITH UNDERDRAIN
PV-10		ASPHALT	-	SCD	ASPHALT	ASPHALT / DARK GRAY	-	2,007 S.F.	-	SEE CIVIL DRAWINGS, TO CONFORM TRANSITION TO EXISTING GRADES
PV-11		DECOMPOSED GRANITE AT PALM	6/L4.05	LYNGSO GARDEN MATERIALS	NON-STABILIZED D.G.	GOLD / NON-STABILIZED DECOMPOSED GRANITE	1/8"	-	32 14 40	SEE PLANTING SHEETS; L4.00-L4.05; LYNGSO GARDEN MATERIALS; VICTOR THOMAS (650) 364-1730
PV-12		PAVEMENT MARKING PLANE	2/L6.09	SEE DETAIL	SEE DETAIL	VARIES / NON-SLIP; SEE DETAILS FOR OPTIONS / YELLOW	SEE DETAILS	-	TBD	DECOPAVEMENT WWW.DECOPAVEMENT.COM; SEE PLANS AND DETAILS FOR PRICING ALTERNATIVES; PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT
AMENITIES										
A-1		BIKE RACK	6/L6.06	LANDSCAPEFORMS	LOOP	STEEL / POWDERCOAT / SILVER	SEE DETAIL	43	32 33 00	LANDSCAPEFORMS; REBECCA CASEY (269) 337-1313
A-2		TRASH AND RECYCLE BIN	5/L6.06	TOURNESOL	TRASH - MA-G30-SUB WITH CUSTOM LIDS RECYCLE - MA-R30-SUB WITH CUSTOM LIDS	STEEL / "PUDDLE" WITH "CANARY" ACCENT / POWDERCOAT	SEE DETAIL	10 TRASH 10 RECYCLE	32 33 00	RECYCLE BIN TO HAVE MNFR. APPLIED RECYCLE GRAPHICS / GRAPHICS TO BE DETERMINED; RECEPTACLES TO HAVE CUSTOM MNFR. SUPPLIED LIDS; PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT
A-3		PLATFORM WOOD BENCH WITH CUBE SEATS	9/L6.06	IDMETALCO	HARRIS ISOLA BENCH CUBE BOLLARD	STEEL: ANTI-WASHOUT TREATMENT FINISH / KORA WOOD STEEL: ANTI-WASHOUT TREATMENT FINISH	SEE DETAIL	1 PLATFORM 4 CUBE SEATS	32 33 00	ID METALCO; SUZANNE ANDERSON (415) 846-1980; THIS SPECIFIC CONFIGURATION IS CURRENTLY PREFABRICATED AND SITTING IN STORAGE NOW, INCLUDING CUBE SEATS. SEE LIGHTING PLANS FOR LINEAR LIGHT E-6
A-4		BENCH TOP	3-5/L6.04	VESTRE	MODEL 4103-900MK	WOOD: KEBONY LINAX /HOT DIP GALVANIZED STEEL / POWDERCOAT COLOR: RAL 3005	16.5" X 59.5" X 11.5" HT	44	32 33 00	VESTRE; ALLEGRA GARRETTI (212) 634-9658 FOR ATTACHMENT. PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT TO BE MOUNTED TO CONCRETE SEAT WALLS
A-5		WATERFRONT BENCH	3/L6.06	VESTRE	MODEL 1516-900 - BLOC SEAT	WOOD:KEBONY HOT DIP GALVANIZED STEEL / POWDERCOAT COLOR: RAL 7043	26.5" X 69.5" X 18" HT	20	32 33 00	VESTRE; ALLEGRA GARRETTI (212) 634-9658
A-6		STARLIGHT CHAISE LOUNGE	1/L6.06	VESTRE	MODEL 1566-900 - BLOC SUN BENCH	WOOD:KEBONY HOT DIP GALVANIZED STEEL / POWDERCOAT COLOR: RAL 3005	SEE DETAIL	10	32 33 00	VESTRE; ALLEGRA GARRETTI (212) 634-9658
A-7		GUIDERAIL	2/L6.02	IRONGRAIN	ADA GUIDERAIL	HOT DIP GALVANIZED STEEL	SEE DETAIL	256 L.F.	32 33 00	IRONGRAIN ANDREW WILLIAMS 510-915-4308;
A-8		PICNIC TABLE AND BENCHES	2/L6.06	VESTRE	MODEL 1538-900 - BLOC TABLE MODEL 1506-900 - BLOC BENCH	WOOD: KENONY HOT DIP GALVANIZED STEEL / POWDERCOAT COLOR: RAL 7043 HOT DIP GALVANIZED STEEL / POWDERCOAT COLOR: RAL 7043	24.7" X 68.5" X 29.2" HT 18.5" X 68.5" X 18" HT	16 TABLES 32 BENCHES	32 33 00	VESTRE; ALLEGRA GARRETTI (212) 634-9658
A-9		DRINKING FOUNTAIN	4/L6.06	MOST DEPENDABLE FOUNTAINS	MODEL 101 55SM	STAINLESS STEEL / CHROME	SEE DETAIL	2	32 33 00	MOST DEPENDABLE FOUNTAINS (800) 552-6331
A-10		REMOVABLE BOLLARD W/ CHAIN	7/L6.06	COLUMBIA CASCADE	2196	STEEL / POWDERCOAT CC-7045 (DARK GRAY) SMOOTH	SEE DETAIL	6	32 33 00	WITH STEEL LINK CHAIN AND REQUIRED ACCESSORIES; COLUMBIA CASCADE www.columbia-cascade.com/
A-11		LIFE RING CABINET	3/L6.03	AQUATIC TECHNOLOGY, INC.	30" LIFE RING CABINET WITH THROW LINE AND USCG BUOY ; MODEL AQRBC30-O	MARINE GRADE PLASTIC / CABINET COLOR: WHITE; BUOY COLOR: ORANGE	SEE DETAIL	2	32 33 00	WITH MANUFACTURER SUPPLIED 60 FOOT EMERGENCY HEAVING LINE AND FOOT ANCHOR www.poolweb.com/
A-12		OVERLOOK STEP BENCH	8/L6.06	VESTRE	MODEL 2417-900 - STOOP BENCH	WOOD: HOT DIP GALVANIZED STEEL / POWDERCOAT COLOR: RAL 6021	72.5" X 81" X 37.5"HT	2	32 33 00	VESTRE; ALLEGRA GARRETTI (212) 634-9658
A-13		ART INSTALLATION	-	-	PLACE HOLDER	CORTEN STEEL	-	1	32 33 00	PLACE HOLDER - TO BE SUBMITTED SEPARATELY
A-14		TRELLIS/ SHADE STRUCTURE	1-6/L6.05	SITECRAFT	CUSTOM METAL TRELLIS STRUCTURE WITH WOOD SLATS	STEEL COLUMN POWDER COAT: CHARCOAL GRAY WOOD: THERMORY	26"W X 28"L	2	32 98 00	SITECRAFT; WIGENS LINDOR (413) 326-0666 SEE PLANS FOR LOCATIONS AND DETAIL FOR MORE INFORMATION
A-15		METAL HEADER	5/L6.01	SURE-LOC	STEEL EDGING	STEEL / GRAY / HOT DIP GALVANIZED	3/16" X 4" X 16' L	974 L.F.	TBD	SURE-LOC; www.surelocdging.com; (800) 787-3562 x103
A-16		CHARGING STATION	3/L6.07	LEGRAND BY LANDSCAPEFORMS	MODEL BM-CSA-2G1U-LBZ	STEEL / POWDERCOATE COLOR: SILVER	SEE DETAIL	2	32 33 00	LANDSCAPEFORMS; REBECCA CASEY (269) 337-1313
A-17		WOOD BEAM BENCH	-	CUSTOM	SALVAGED TIMBER	SALVAGED WOODS / STEEL RECTANGULAR BRACKET IN POWERCOAT: RAL 7043	114" X 24" X 18" HT; SEE DETAIL	16	-	WOOD TO BE SALVAGED TIMBER SUCH AS MOORING POSTS OR EQUAL
WALLS										
W-1		GABION RETAINING WALL	1,2,6/L6.04 1-6/L6.08	LYNGSO HILFIKER RETAINING WALLS	LIN CREEK COBBLE ROCK METAL WIRE	- GALVANIZED 9 GAUGE WELDED WIRE	4"-6" COBBLE ROCK 3"X3" WIRE FABRIC	1,665 L.F.	-	TO BE COORDINATED WITH ENV/GEOTECH
W-2		CONCRETE RETAINING WALL	3/L6.02 5/L6.04	-	CIP CONCRETE RETAINING WALL	CONCRETE / NATURAL / SMOOTH FINISH	18"X24" WIDTH SEE DETAIL	355'-21" L.F.	32 13 16	WALL AT OVERLOOK(24"W X 65'-11") AND SEAT WALLS(18"W X 29'-20"L) ON TERRACES FOR BENCH ON SEAT WALLS SEE A-4
RAILINGS										
R-1		GUARDRAIL	1/L6.03	METAL FRAME MCNICHOLS	STAINLESS STEEL POST & FRAME ITEM#: 6801310732	STAINLESS STEEL TYPE 14 SS BAR GRATING / POWDERCOAT COLOR: DARK GRAY RAL 7043	SEE DETAIL	566 L.F.	05 52 16	CUT TO FIT
R-2		HANDRAIL	6/L6.02	-	METAL	STEEL / GRAY / HOT DIP GALVANIZED	SEE DETAIL	154 L.F.	05 52 16	
R-3		GUARDRAIL GATE	2/L6.03	METAL FRAME MCNICHOLS	STAINLESS STEEL ITEM#: 6801310732	STAINLESS STEEL TYPE 14 SS BAR GRATING / POWDERCOAT COLOR: DARK GRAY RAL 7043	SEE DETAIL	2	05 52 16	
R-4		REMOVABLE GUARDRAIL PANEL	1/L6.03 SIM	METAL FRAME MCNICHOLS	STAINLESS STEEL ITEM#: 6801310732	STAINLESS STEEL TYPE 14 SS BAR GRATING / POWDERCOAT COLOR: DARK GRAY RAL 7043	12' PANEL	12 L.F.	05 52 16	NEED CITY REQUIREMENTS TO FINALIZE
DRAINS (FOR REFERENCE ONLY)										
D-1		PALM / TREE DRAIN	-	NDS	910B	BRASS	4" ROUND	-	-	NDS PRO; www.ndspro.com
D-2		AREA DRAIN IN CONCRETE	2/L6.07	JAY R. SMITH	D2490	DUCTILE IRON	8" 1/2" DIA	-	-	JAY R. SMITH; www.jrsmith.com; SCD
D-3		AREA DRAIN IN CHANNEL	-	NDS PRO	7	PLASTIC / GREEN / FACTORY	5" SQUARE	-	-	NDS PRO; www.ndspro.com; SCD
LIGHTING (FOR REFERENCE ONLY)										
E-1 / E-1A		POLE LIGHT TYPE E-1 / E-1A FOOTING	1/L6.07	-	-	-	-	-	-	DETAIL REFERENCE FOR FOOTING ONLY; SEE HLB PLANS FOR ADDITIONAL INFORMATION
E-1B		POLE LIGHT TYPE E-1B FOOTING	1/L6.07	-	-	-	-	-	-	DETAIL REFERENCE FOR FOOTING ONLY; SEE HLB PLANS FOR ADDITIONAL INFORMATION
E-3		POLE LIGHT TYPE E-3 FOOTING	1/L6.07	-	-	-	-	-	-	DETAIL REFERENCE FOR FOOTING ONLY; SEE HLB PLANS FOR ADDITIONAL INFORMATION
E-5		DOWN LIGHT TYPE E-5	-	-	-	-	-	-	-	DETAIL REFERENCE FOR FOOTING ONLY; SEE HLB PLANS FOR ADDITIONAL INFORMATION
E-4 / E-4A		STEP LIGHT E-4/E-4A	-	-	-	-	-	-	-	DETAIL REFERENCE FOR LOCATION ONLY; SEE HLB PLANS FOR ADDITIONAL INFORMATION
E-8		BIKE PATH MARKER E-8	-	-	-	-	-	-	-	SEE HLB PLANS FOR ADDITIONAL INFORMATION
E-7		PALM UPLIGHT E-7	-	-	-	-	-	-	-	DETAIL REFERENCE FOR LOCATION ONLY; SEE HLB PLANS FOR ADDITIONAL INFORMATION



ALAMEDA POINT WATERFRONT PARK
 Alameda Point Block 5 Alameda, California



Date: February 13, 2020
 Project Number: 18dw285
 Drawn by: CK, SY, GY
 Checked by: AP, CH
 Scale: As Noted

PROJECT STATUS	
PRICING	8/15/16
PERMIT	9/19/16
PERMIT	11/22/16
PRICING	1/30/20
PERMIT	2/13/20

Key Map

Sheet Title:
Materials and Site Furnishings Legend

L1.00A

NOT FOR CONSTRUCTION

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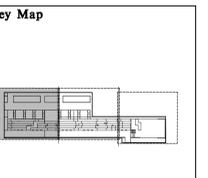
ALAMEDA POINT WATERFRONT PARK

Alameda Point Block 5 Alameda, California



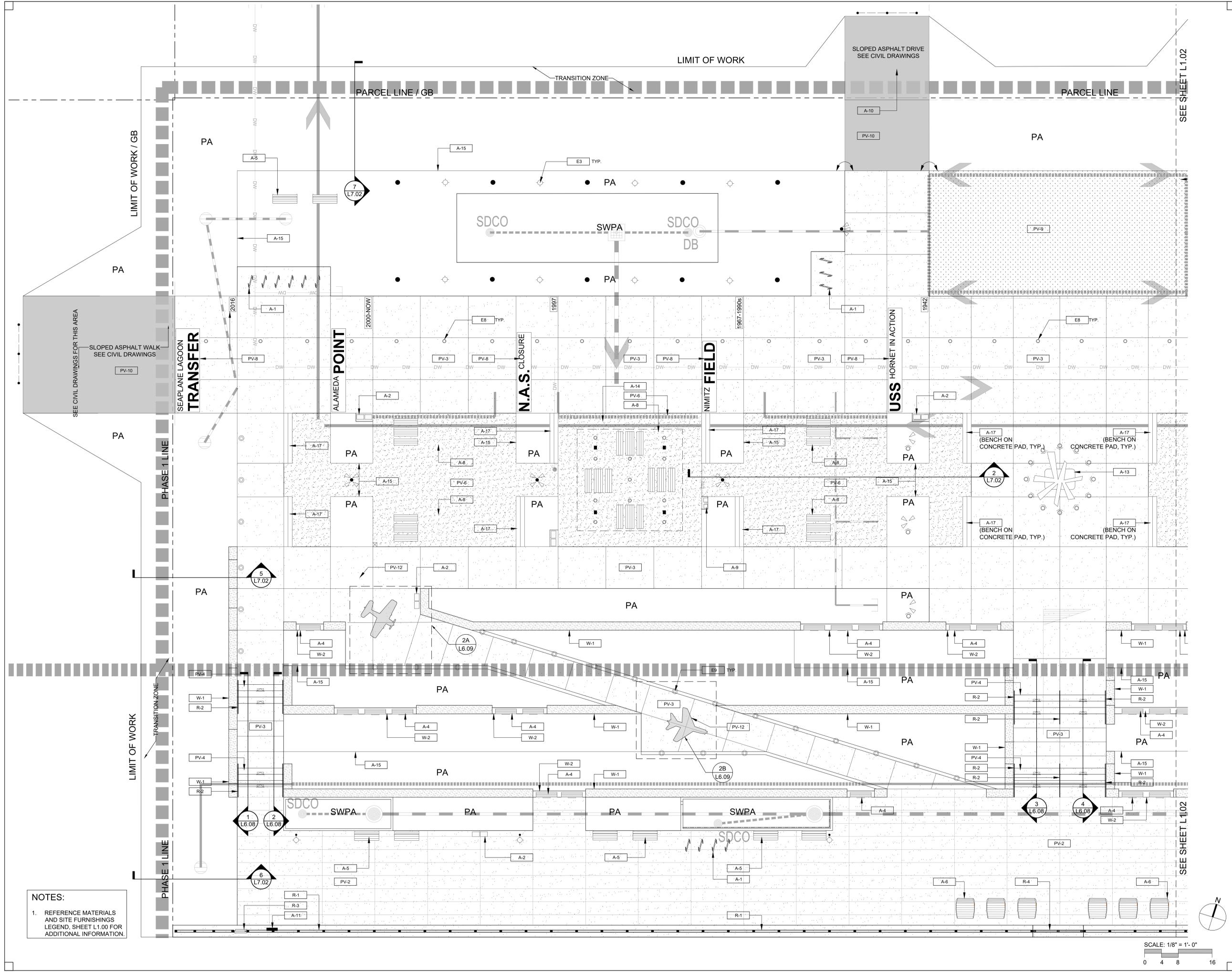
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Sheet Title:
Materials and Site Furnishings Plan

L1.01



NOTES:
 1. REFERENCE MATERIALS AND SITE FURNISHINGS LEGEND, SHEET L1.00 FOR ADDITIONAL INFORMATION.

NOT FOR CONSTRUCTION

DATE PLOTTED: 02/13/2020 10:58:11 AM PLOT DATE: 02/13/2020 10:58:11 AM PLOT BY: MARIAN



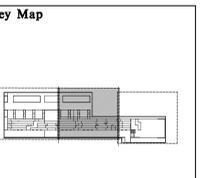
ALAMEDA POINT WATERFRONT PARK

Alameda Point Block 5 Alameda, California



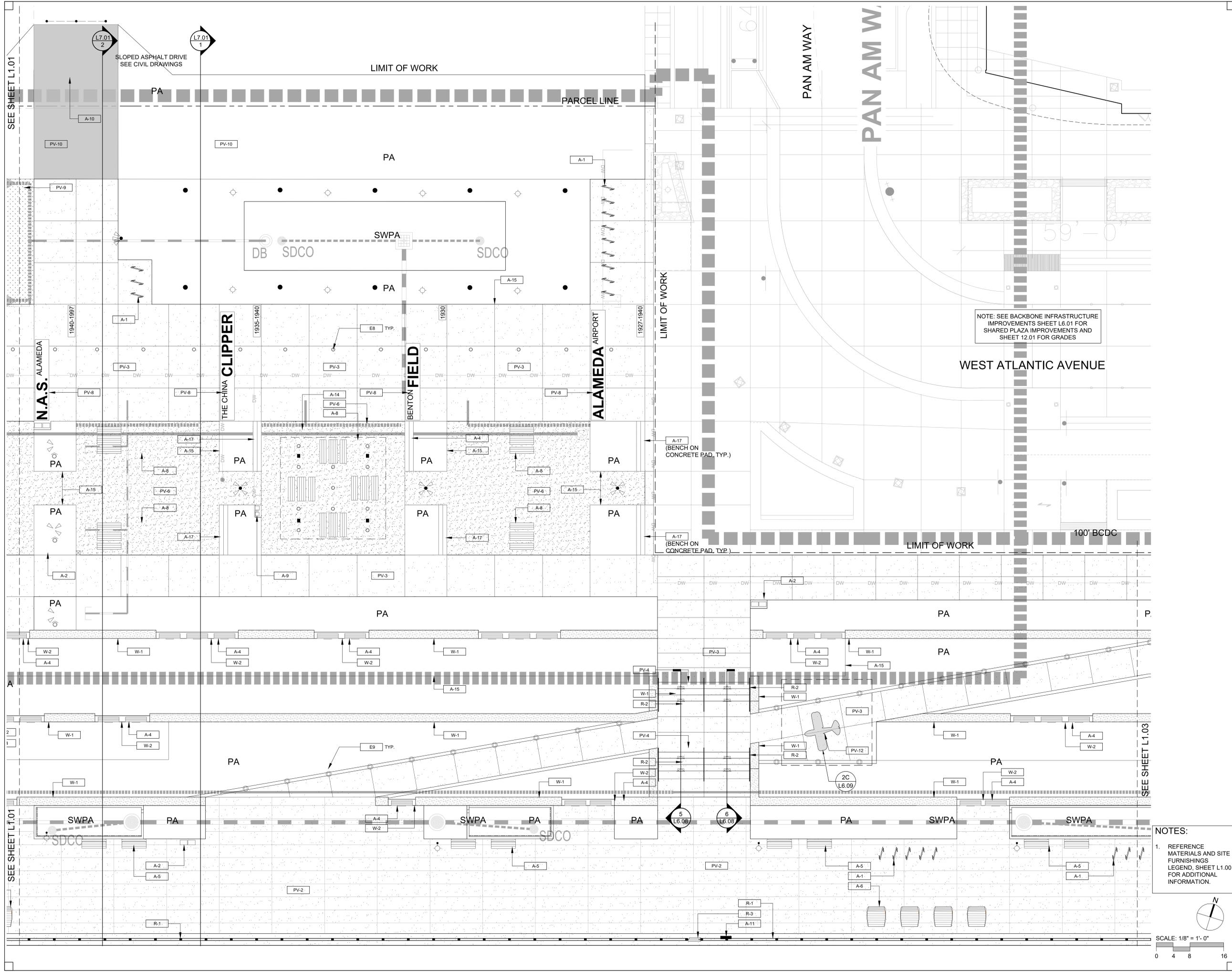
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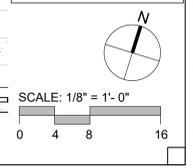


Sheet Title:
Materials and Site Furnishings Plan

L1.02

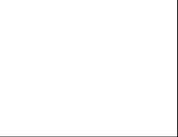


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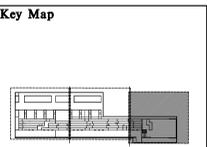


ALAMEDA POINT WATERFRONT PARK
Alameda Point Block 5 Alameda, California



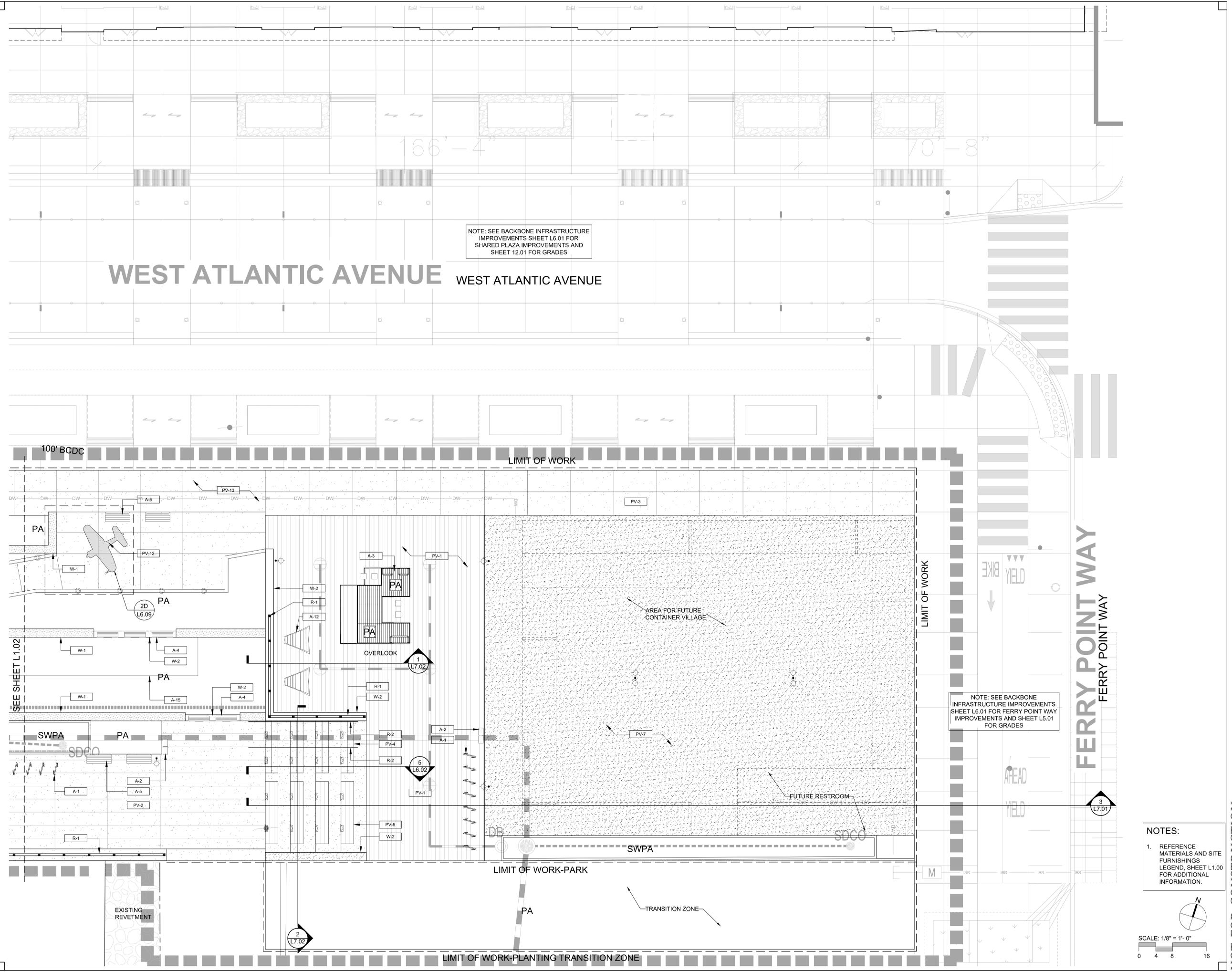
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Materials and Site Furnishings Plan

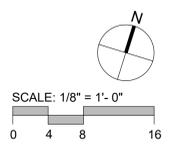
L1.03



NOTE: SEE BACKBONE INFRASTRUCTURE IMPROVEMENTS SHEET L6.01 FOR SHARED PLAZA IMPROVEMENTS AND SHEET 12.01 FOR GRADES

NOTE: SEE BACKBONE INFRASTRUCTURE IMPROVEMENTS SHEET L6.01 FOR FERRY POINT WAY IMPROVEMENTS AND SHEET L5.01 FOR GRADES

- NOTES:
1. REFERENCE MATERIALS AND SITE FURNISHINGS LEGEND, SHEET L1.00 FOR ADDITIONAL INFORMATION.



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DRAWING MADE BY: SAUL GIBSON FOR SHEET L1.03, MATERIALS AND SITE FURNISHINGS PLAN, PROJECT DATE: FEB 27, 2020 @ 10:26am, PLOTTED BY: MCDONALD



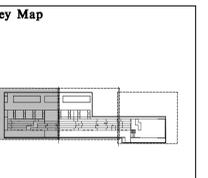
ALAMEDA POINT WATERFRONT PARK

Alameda Point Block 5 Alameda, California



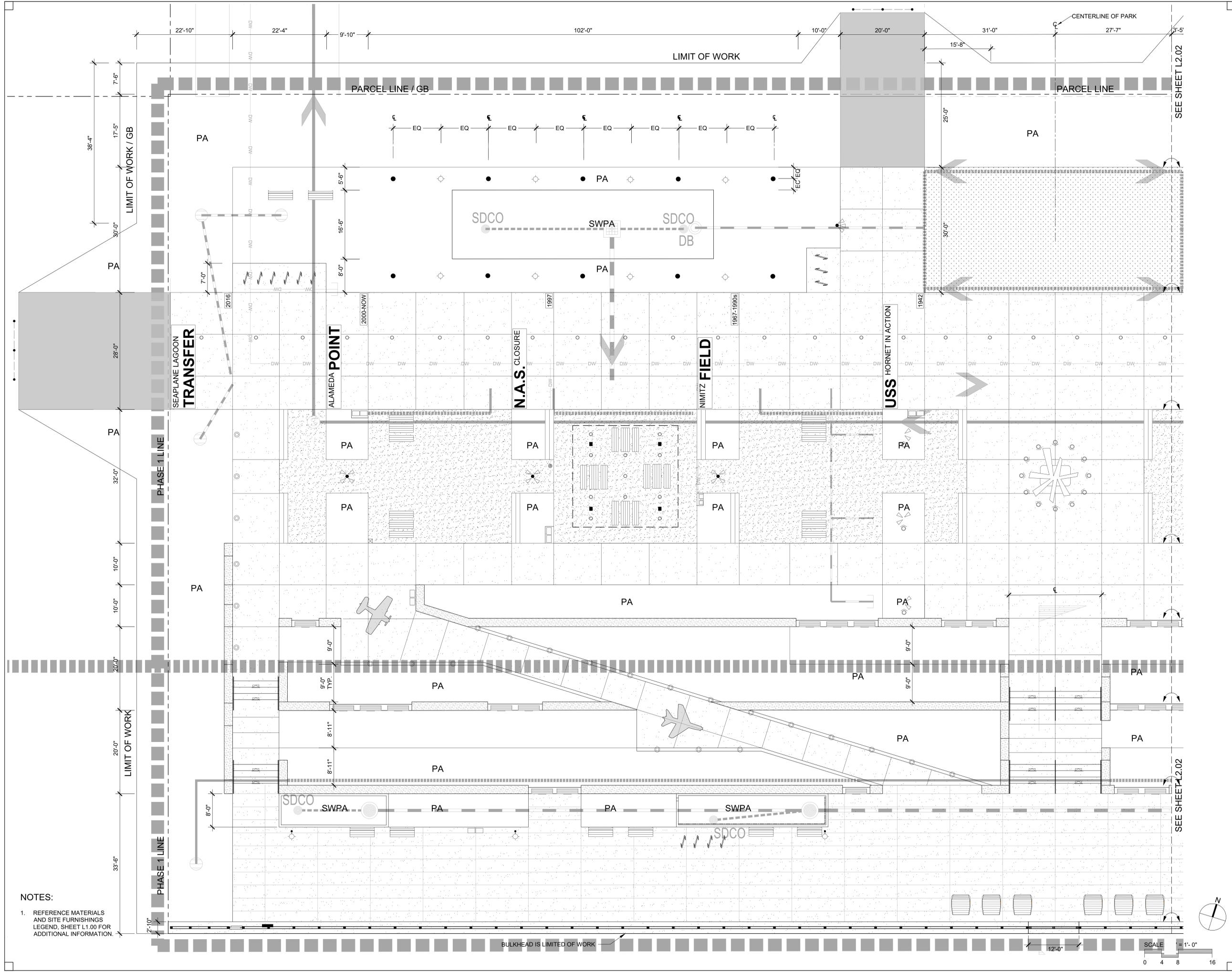
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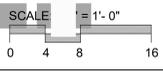


Sheet Title:
Site Layout Plan

L2.01



NOTES:
 1. REFERENCE MATERIALS AND SITE FURNISHINGS LEGEND, SHEET L1.00 FOR ADDITIONAL INFORMATION.



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DATE PLOTTED: 02/13/2020 10:58:12 AM PLOT DATE: 02/13/2020 10:58:12 AM PLOT BY: AP

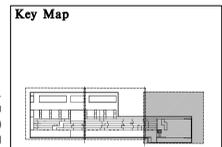


ALAMEDA POINT WATERFRONT PARK
Alameda Point Block 5 Alameda, California



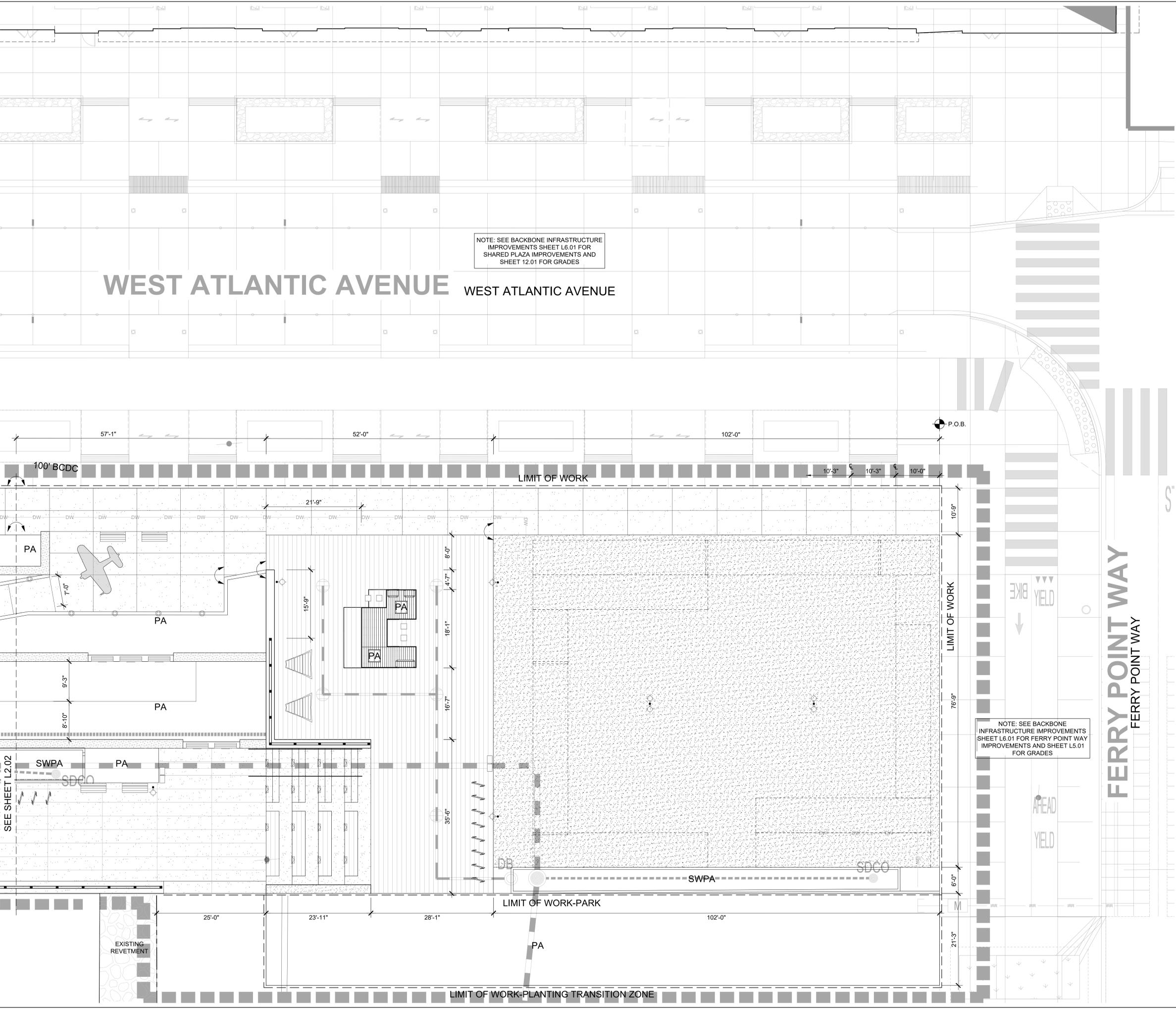
Date: February 13, 2020
Project Number: 18dw285
Drawn by: CK, SY, GY
Checked by: AP,CH
Scale: As Noted

PROJECT STATUS	
PRICING	8/15/16
PERMIT	9/19/16
PERMIT	11/22/16
PRICING	1/30/20
PERMIT	2/13/20



Sheet Title:
Site Layout Plan

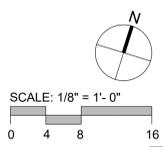
L2.03



NOTE: SEE BACKBONE INFRASTRUCTURE IMPROVEMENTS SHEET L6.01 FOR SHARED PLAZA IMPROVEMENTS AND SHEET 12.01 FOR GRADES

NOTE: SEE BACKBONE INFRASTRUCTURE IMPROVEMENTS SHEET L6.01 FOR FERRY POINT WAY IMPROVEMENTS AND SHEET L5.01 FOR GRADES

- NOTES:
1. REFERENCE MATERIALS AND SITE FURNISHINGS LEGEND, SHEET L1.00 FOR ADDITIONAL INFORMATION.



NOT FOR CONSTRUCTION

DRAWING MADE BY: APRIL PHILIPS DESIGN WORKS, INC. DATE: FEB 13, 2020. PLOT DATE: FEB 27, 2020. 10:26am. PLOTTED BY: MCOO



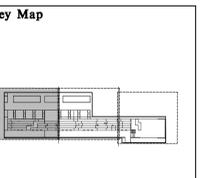
ALAMEDA POINT WATERFRONT PARK

Alameda Point Block 5 Alameda, California



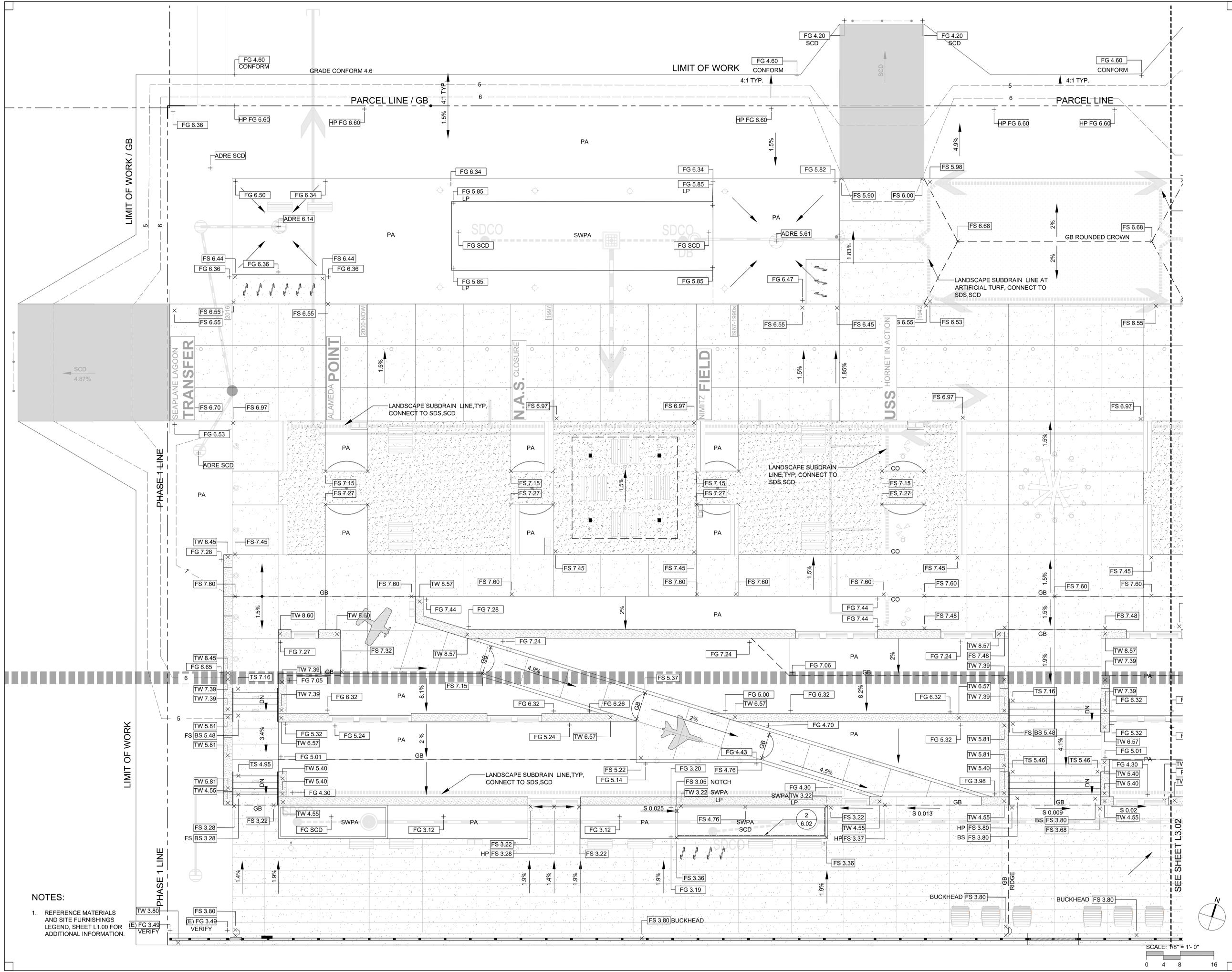
Date: February 13, 2020
Project Number: 18dw285
Drawn by: CK, SY, GY
Checked by: AP, CH
Scale: As Noted

PROJECT STATUS	
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PERMIT	9/19/16
PERMIT	11/22/16
PRICING	1/30/20
PERMIT	2/13/20

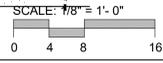


Sheet Title:
Grading Plan

L3.01



NOTES:
1. REFERENCE MATERIALS AND SITE FURNISHINGS LEGEND, SHEET L1.00 FOR ADDITIONAL INFORMATION.



NOT FOR CONSTRUCTION

DATE PLOTTED: 2/13/20 11:58:53 AM
PLOT DATE: 2/13/20 11:58:53 AM
PLOT BY: AP



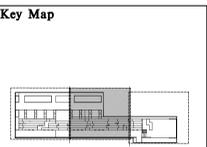
ALAMEDA POINT WATERFRONT PARK

Alameda Point Block 5 Alameda, California



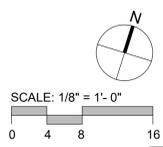
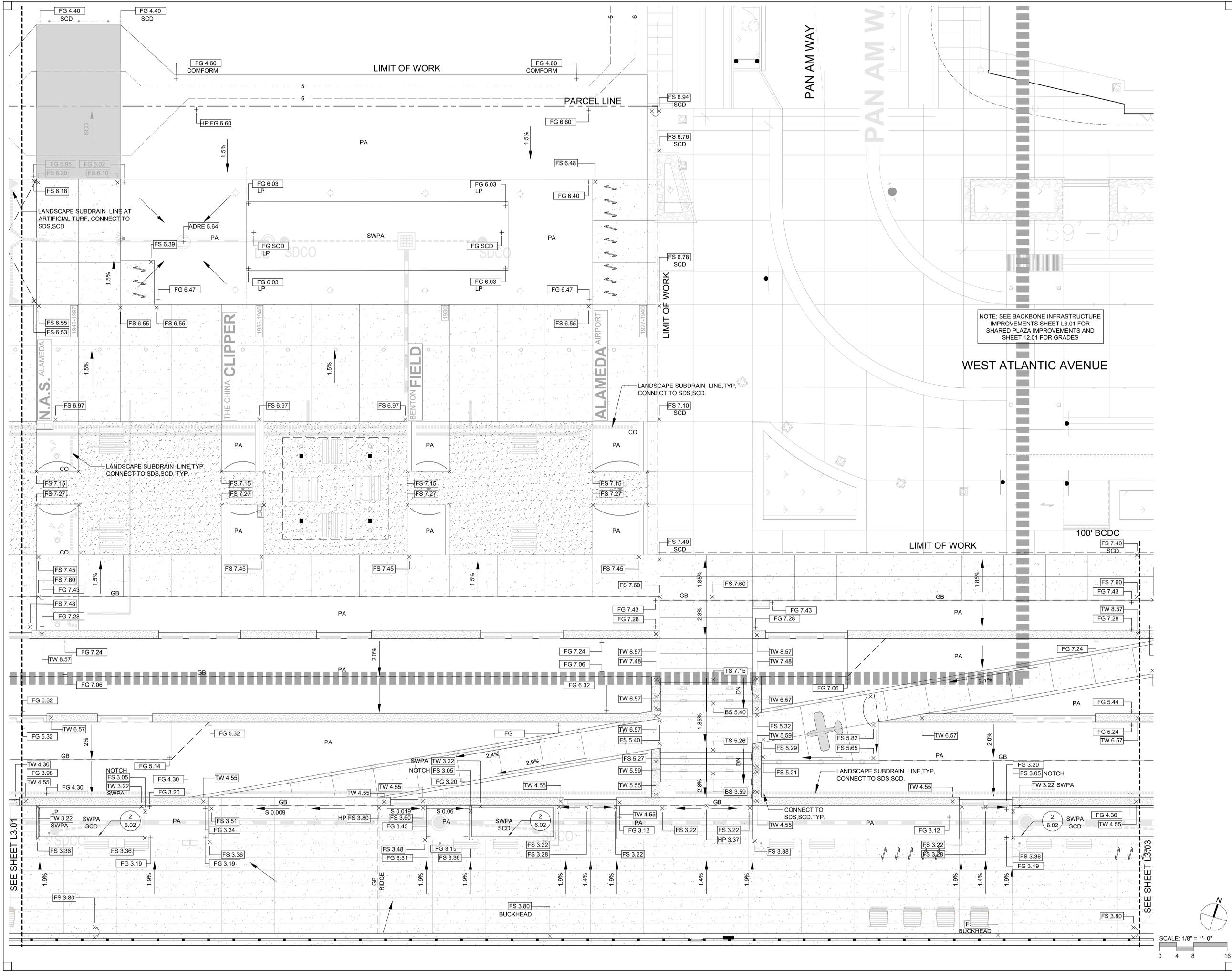
Date: February 13, 2020
 Project Number: 18dw285
 Drawn by: CK, SY, GY
 Checked by: AP, CH
 Scale: As Noted

PROJECT STATUS	
PRICING	8/15/16
PERMIT	9/19/16
PERMIT	11/22/16
PRICING	1/30/20
PERMIT	2/13/20



Sheet Title:
Grading Plan

L3.02



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NOT FOR CONSTRUCTION



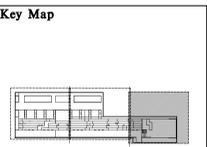
ALAMEDA POINT WATERFRONT PARK

Alameda Point Block 5 Alameda, California



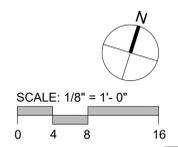
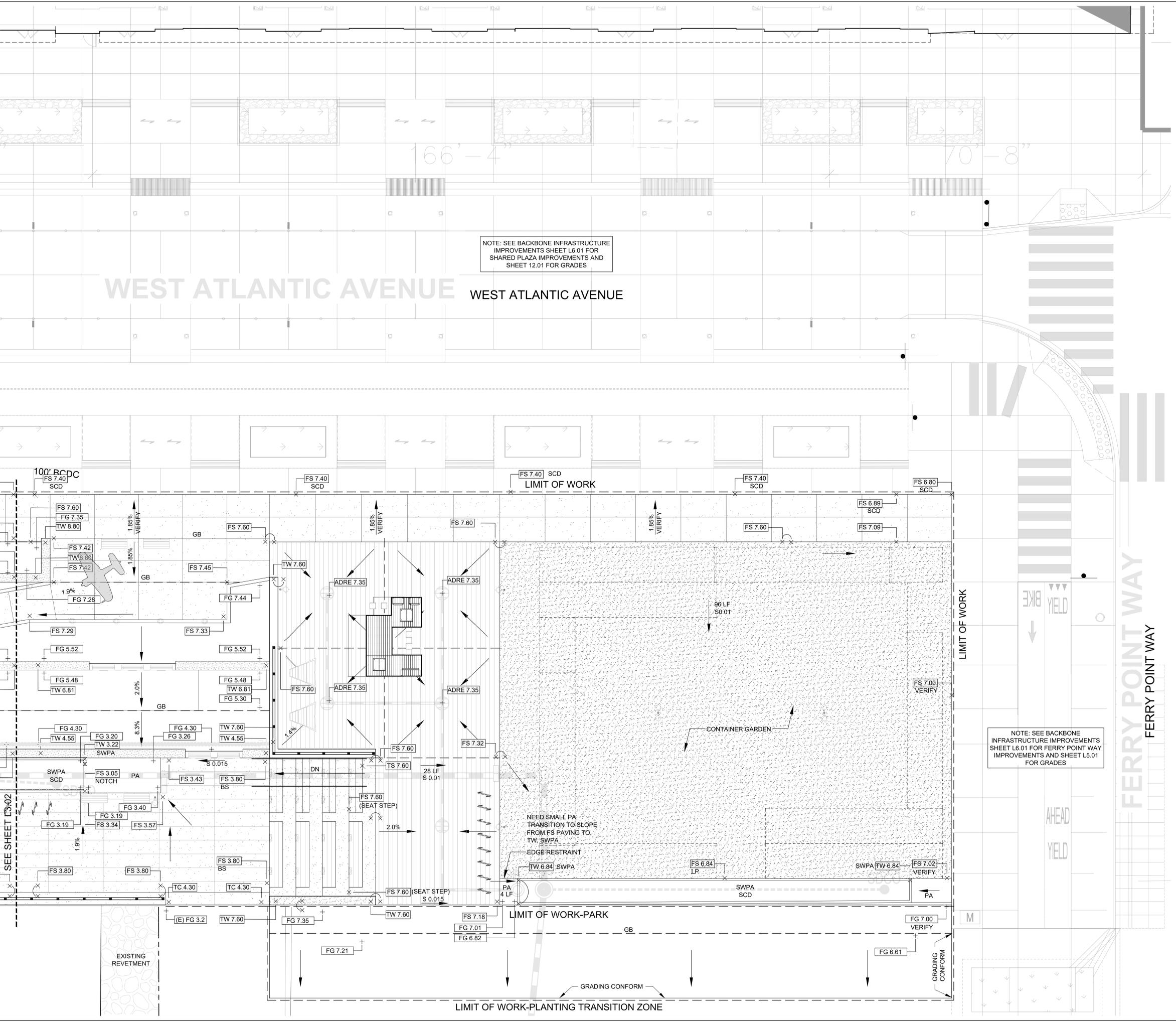
Date: February 13, 2020
Project Number: 18dw285
Drawn by: CK, SY, GY
Checked by: APCH
Scale: As Noted

PROJECT STATUS	
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PERMIT	9/19/16
PERMIT	11/22/16
PRICING	1/30/20
PERMIT	2/13/20



Sheet Title:
Grading Plan

L3.03



NOT FOR CONSTRUCTION

ISSUED: 02/13/2020 09:52:11 AM
PROJECT: ALAMEDA POINT WATERFRONT PARK
SHEET: L3.03
DATE: 02/13/2020 11:32am
PLOT DATE: 02/13/2020 11:32am
PLOT DATE: 02/13/2020 11:32am

PLANT LEGEND

CALL OUT	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	O.C.	QTY.	IRRIGATION TYPE / EFFICIENCY	WUCOLS	REMARKS
TREES + LARGE SHRUB									
WAS ROB		WASHINGTONIA ROBUSTA	MEXICAN FAN PALM	20' BTH	SEE PLAN	6	DRIP/0.85	LOW	MATCHED; AS SELECTED BY PALM BROKER AND LANDSCAPE ARCHITECT; SEE SPECS.
ROB PUR		ROBINIA 'PURPLE ROBE'	PURPLE ROBE HONEY LOCUST	48" BOX	SEE PLAN	19	DRIP/0.85	LOW	MATCHED; AS SELECTED BY PALM BROKER AND LANDSCAPE ARCHITECT; SEE SPECS.
GIN BIL		GINKGO BILOBA 'AUTUMN GOLD'	AUTUMN GOLD GINKGO	48" BOX	SEE PLAN	20	DRIP/0.85	MEDIUM	MATCHED; AS SELECTED BY PALM BROKER AND LANDSCAPE ARCHITECT; SEE SPECS.
GAR ELL		GARRYA ELLIPTICA 'JAMES ROOF'	COAST SILK TASSEL	15 GAL	SEE PLAN	12	DRIP/0.85	LOW	SCULPTURAL QUALITY
PLANTS									
ART CAL		ARTEMISIA CALIFORNICA	CALIFORNIA SAGEBRUSH	1 GAL	30" OC	256	DRIP/0.85	LOW	FULL, HEALTHY, DENSELY FOLIATED WITH WELL ESTABLISHED ROOT SYSTEM
AST CHI		ASTER CHILENSIS	SEASIDE DAISY	1 GAL	12" OC	414	DRIP/0.85	LOW	FULL, HEALTHY, DENSELY FOLIATED WITH WELL ESTABLISHED ROOT SYSTEM
CAL NUT		CALAMAGROSTIS NUTKAENSIS	PACIFIC REEDGRASS	1 GAL	30" OC	281	DRIP/0.85	LOW	FULL, HEALTHY, DENSELY FOLIATED WITH WELL ESTABLISHED ROOT SYSTEM
CAR PRA		CAREX PRAEGRACILIS	CALIFORNIA FIELD SEDGE	1 GAL	18" O.C.	1898	DRIP/0.85	LOW	FULL, HEALTHY, DENSELY FOLIATED WITH WELL ESTABLISHED ROOT SYSTEM
CEA MAR		CEANOTHUS MARITIMUS 'FROSTY DAWN'	FROSTY DAWN CALIFORNIA LILAC	5 GAL	36" O.C.	139	DRIP/0.85	LOW	FULL, HEALTHY, DENSELY FOLIATED WITH WELL ESTABLISHED ROOT SYSTEM
DES CES		DESCHAMPSIA CESPITOSA	TUFTED HAIR GRASS	1 GAL	24" O.C.	242	DRIP/0.85	LOW	FULL, HEALTHY, DENSELY FOLIATED WITH WELL ESTABLISHED ROOT SYSTEM
ELY GLA		ELYMUS GLAUCUS	BLUE WILD RYE	1 GAL	24" O.C.	233	DRIP/0.85	LOW	FULL, HEALTHY, DENSELY FOLIATED WITH WELL ESTABLISHED ROOT SYSTEM
EPI CAN		EPILOBIUM CANUM	CALIFORNIA FUSCHIA	1 GAL	18" O.C.	607	DRIP/0.85	LOW	FULL, HEALTHY, DENSELY FOLIATED WITH WELL ESTABLISHED ROOT SYSTEM
ERI FAS		ERIOGONUM FASCICULATUM FOLIOLOSUM	CALIFORNIA BUCKWHEAT	5 GAL	36" O.C.	144	DRIP/0.85	LOW	FULL, HEALTHY, DENSELY FOLIATED WITH WELL ESTABLISHED ROOT SYSTEM
SOD		FESTUCA IDAHOENSIS FESTUCA RUBRA 'MOLATE' FESTUCA OCCIDENTALIS	DELTA BLUEGRASS NATIVE MOW FREE SOD MEADOW	SOD	N/A	4,553 SF	MICROSPRAY	LOW	FULL, HEALTHY, DENSELY FOLIATED WITH WELL ESTABLISHED ROOT SYSTEM
GRE LAV		GREVILLEA LAVANDULACEA	LAVENDER GREVILLEA	5 GAL	48" O.C.	27	DRIP/0.85	LOW	FULL, HEALTHY, DENSELY FOLIATED WITH WELL ESTABLISHED ROOT SYSTEM
IRI DOU		IRIS DOUGLASIANA	DOUGLAS IRIS	1 GAL	12" O.C.	363	DRIP/0.85	LOW	FULL, HEALTHY, DENSELY FOLIATED WITH WELL ESTABLISHED ROOT SYSTEM
JUN EFF		JUNCUS EFFUSUS 'QUARTZ CREEK'	COMMON RUSH	1 GAL	24" O.C.	242	DRIP/0.85	LOW	FULL, HEALTHY, DENSELY FOLIATED WITH WELL ESTABLISHED ROOT SYSTEM
LEY TRI		LEYMUS TRITICOIDES LAGUNITA™	LAGUNITA WILD RYE	1 GAL	18" O.C.	397	DRIP/0.85	LOW	FULL, HEALTHY, DENSELY FOLIATED WITH WELL ESTABLISHED ROOT SYSTEM
LIM CAL		LIMONIUM CALIFORNICUM	SEA LAVENDER	1 GAL	12" O.C.	662	DRIP/0.85	LOW	FULL, HEALTHY, DENSELY FOLIATED WITH WELL ESTABLISHED ROOT SYSTEM
LOM LON		LOMANDRA LONGIFOLIA 'BREEZE'	DWARF MAT RUSH	1 GAL	24" O.C.	215	DRIP/0.85	LOW	FULL, HEALTHY, DENSELY FOLIATED WITH WELL ESTABLISHED ROOT SYSTEM
LUP ALB		LUPINUS ALBIFRONS	SILVER BUSH LUPINE	1 GAL	36" OC	130	DRIP/0.85	LOW	FULL, HEALTHY, DENSELY FOLIATED WITH WELL ESTABLISHED ROOT SYSTEM
PAN HEA		PANICUM 'HEAVY METAL'	BLUE SWITCH GRASS	1 GAL	24" O.C.	599	DRIP/0.85	LOW	FULL, HEALTHY, DENSELY FOLIATED WITH WELL ESTABLISHED ROOT SYSTEM
PEN MAR		PENSTEMON 'MARGARITA BOP'	FOOTHILL PENSTEMON	1 GAL	24" O.C.	64	DRIP/0.85	LOW	FULL, HEALTHY, DENSELY FOLIATED WITH WELL ESTABLISHED ROOT SYSTEM
PEN SPA		PENNISETUM SPATHIOLATUM	SLENDER VELDT GRASS	1 GAL	24" O.C.	600	DRIP/0.85	LOW	FULL, HEALTHY, DENSELY FOLIATED WITH WELL ESTABLISHED ROOT SYSTEM
SAL LEU		SALVIA LEUCOPHYLLA	PURPLE SAGE	1 GAL	36" O.C.	33	DRIP/0.85	LOW	FULL, HEALTHY, DENSELY FOLIATED WITH WELL ESTABLISHED ROOT SYSTEM
WES FRU		WESTRINGIA FRUTICOSA	COAST ROSEMARY	5 GAL	30" O.C.	138	DRIP/0.85	LOW	FULL, HEALTHY, DENSELY FOLIATED WITH WELL ESTABLISHED ROOT SYSTEM
PLANTING HATCHES									
LOM LON		LOMANDRA LONGIFOLIA 'BREEZE'	DWARF MAT RUSH	PLUGS	24" O.C.	1,835	DRIP/0.85	LOW	6,350 SF; EDGE MEADOW PLANTING ON SLOPES
PEN SPA		PENNISETUM SPATHIOLATUM	SLENDER VELDT GRASS	1 GAL	24" O.C.	1,662	DRIP/0.85	LOW	5,753 SF; MEADOW PLANTING
RUS NAN		RUSCHIA NANA	DWARF CARPET OF STARS	PLUGS	8" O.C.	13,750	DRIP/0.85	LOW	5,314 SF; WALKABLE GROUND COVER

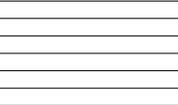


ALAMEDA POINT WATERFRONT PARK
Alameda Point Block 5 Alameda, California



Date: February 13, 2020
Project Number: 18dw285
Drawn by: CK, SY, GY
Checked by: AP, CH
Scale: As Noted

PROJECT STATUS	
PRICING	8/15/16
PERMIT	9/19/16
PERMIT	11/22/16
PRICING	1/30/20
PERMIT	2/13/20

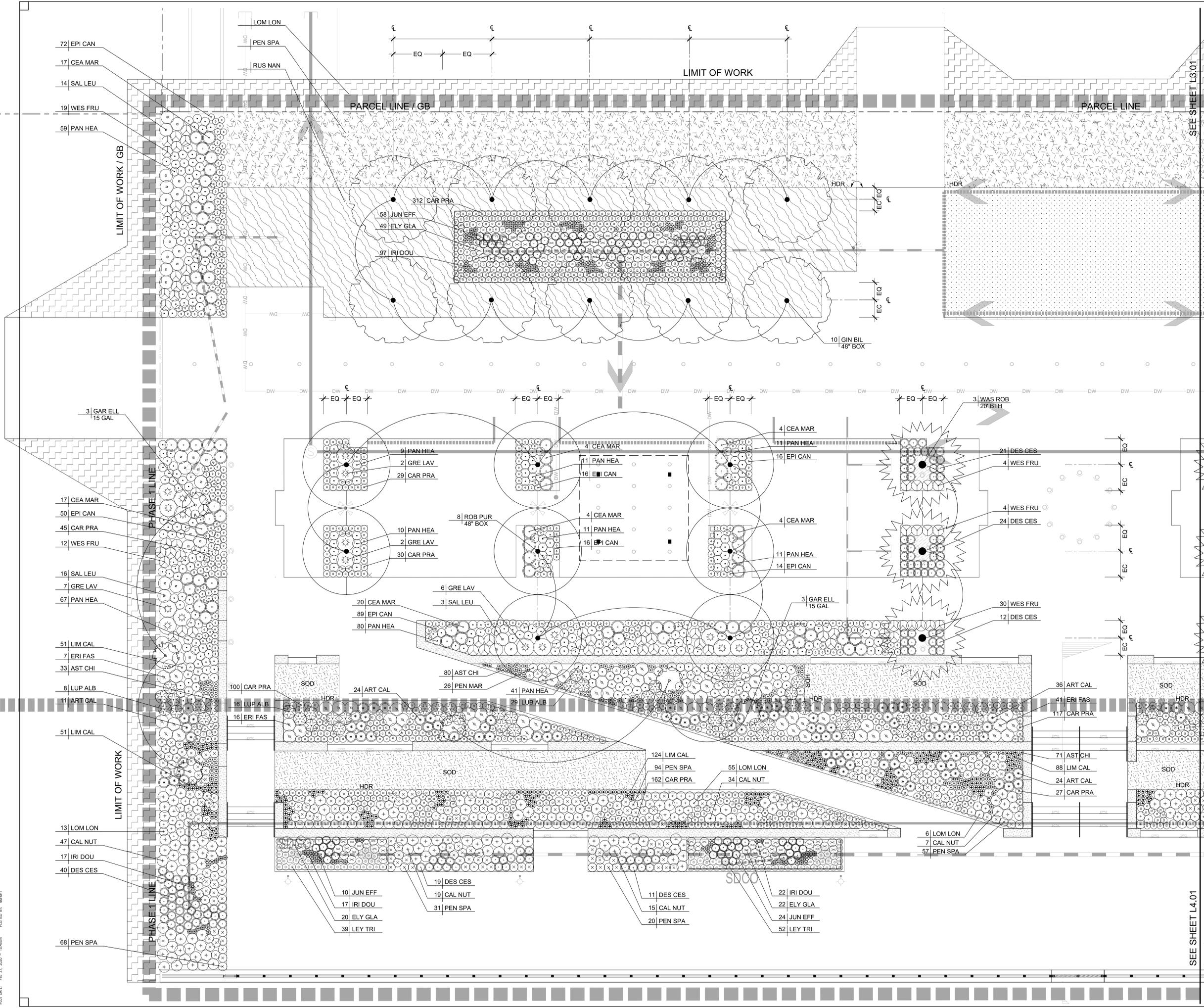


Key Map

Sheet Title:
Planting Legend

L4.00

NOT FOR CONSTRUCTION



CALL OUT	SYMBOL
TREES + LARGE SHRUB	
WAS ROB	
ROB PUR	
GIN BIL	
GAR ELL	
PLANTS	
ART CAL	
AST CHI	
CAL NUT	
CAR PRA	
CEA MAR	
DES CES	
ELY GLA	
EPI CAN	
ERI FAS	
SOD	
GRE LAV	
IRI DOU	
JUN EFF	
LEY TRI	
LIM CAL	
LOM LON	
LUP ALB	
PAN HEA	
PEN MAR	
PEN SPA	
SAL LEU	
WES FRU	
PLANTING HATCHES	
LOM LON	
PEN SPA	
RUS NAN	



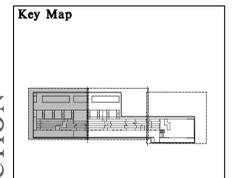
ALAMEDA POINT WATERFRONT PARK

Alameda Point Block 5 Alameda, California



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Planting Plan

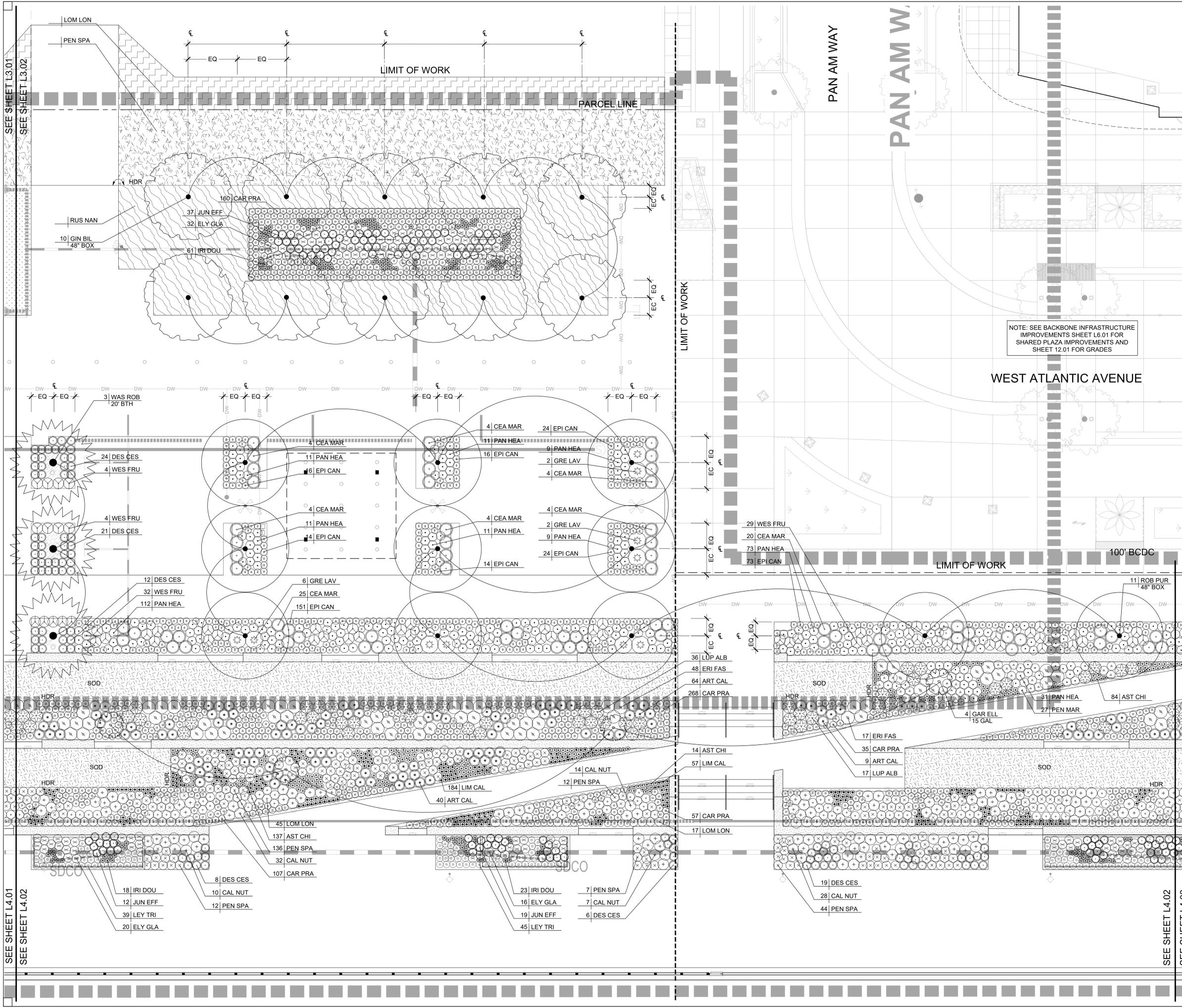
L4.01

NOT FOR CONSTRUCTION

NOTE: FOR FULL PLANTING LEGEND SEE SHEET L4.00

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

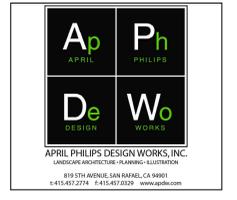
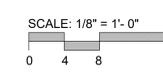
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CALL OUT	SYMBOL
TREES + LARGE SHRUB	
WAS ROB	
ROB PUR	
GIN BIL	
GAR ELL	
PLANTS	
ART CAL	
AST CHI	
CAL NUT	
CAR PRA	
CEA MAR	
DES CES	
ELY GLA	
EPI CAN	
ERI FAS	
SOD	
GRE LAV	
IRI DOU	
JUN EFF	
LEY TRI	
LIM CAL	
LOM LON	
LUP ALB	
PAN HEA	
PEN MAR	
PEN SPA	
SAL LEU	
WES FRU	
PLANTING HATCHES	
LOM LON	
PEN SPA	
RUS NAN	

NOTE: SEE BACKBONE INFRASTRUCTURE IMPROVEMENTS SHEET L6.01 FOR SHARED PLAZA IMPROVEMENTS AND SHEET 12.01 FOR GRADES

NOTE: FOR FULL PLANTING LEGEND SEE SHEET L4.00



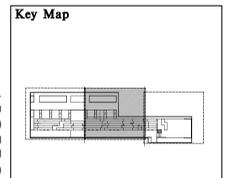
ALAMEDA POINT WATERFRONT PARK

Alameda Point Block 5 Alameda, California



Date: February 13, 2020
 Project Number: 18dw285
 Drawn by: CK, SY, GY
 Checked by: AP, CH
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PERMIT	11/22/16
PRICING	1/30/20
PERMIT	2/13/20



Sheet Title:
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L4.02

NOT FOR CONSTRUCTION

SEE SHEET L3.01
 SEE SHEET L3.02

SEE SHEET L4.03
 SEE SHEET L4.03

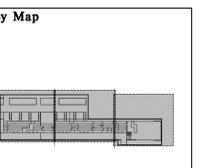
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**ALAMEDA POINT
 WATERFRONT PARK**
 Alameda Point Block 5 Alameda, California



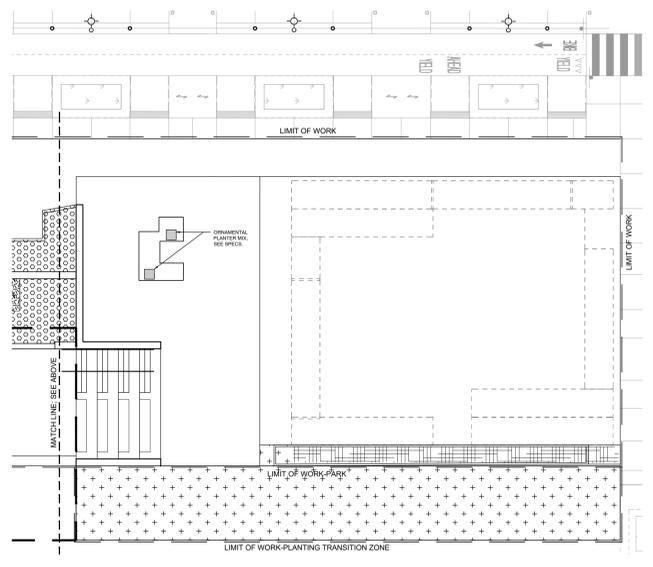
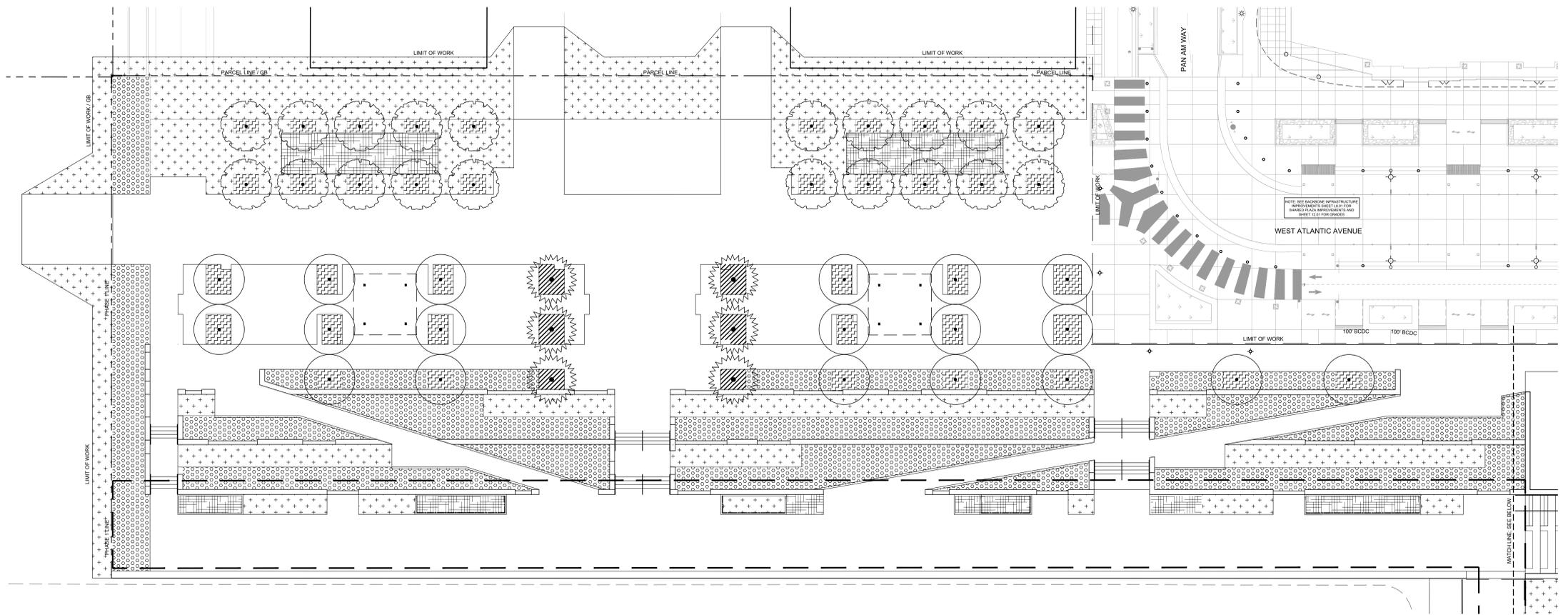
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 Drawn by: CK, SY, GY
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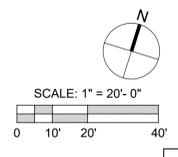


Sheet Title:
Soil Profile Plan

L4.04



SOIL PROFILE LEGEND		
SOIL TYPE	SYMBOL	DETAIL
4-12" AMENDED SOIL		1/L4.05
24" AMENDED SOIL		1/L4.05
36" AMENDED SOIL		1,4/L4.05; TREES
18" BIO RETENTION SOIL		7/L4.05; SCD
48" FRESH WATER SAND FOR PALM		6/L4.05; PALMS
SOIL IMPROVEMENT ZONE		SCD



NOT FOR CONSTRUCTION



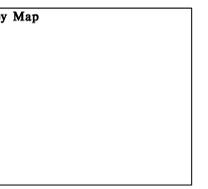
ALAMEDA POINT WATERFRONT PARK

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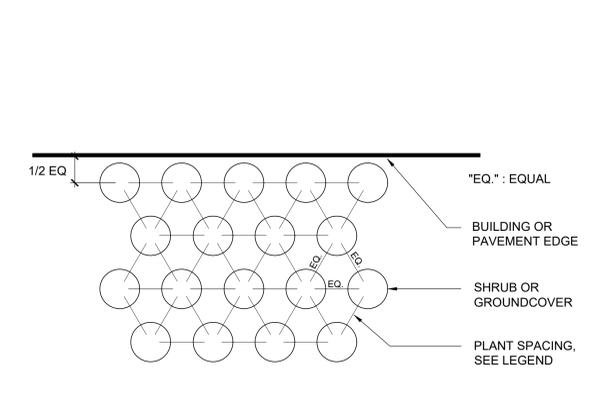
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PERMIT	9/19/16
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PRICING	1/30/20
PERMIT	2/13/20



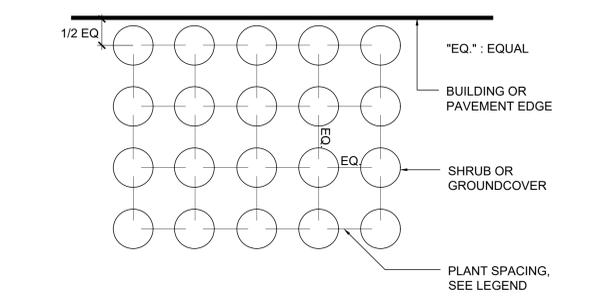
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Planting Details

L4.05

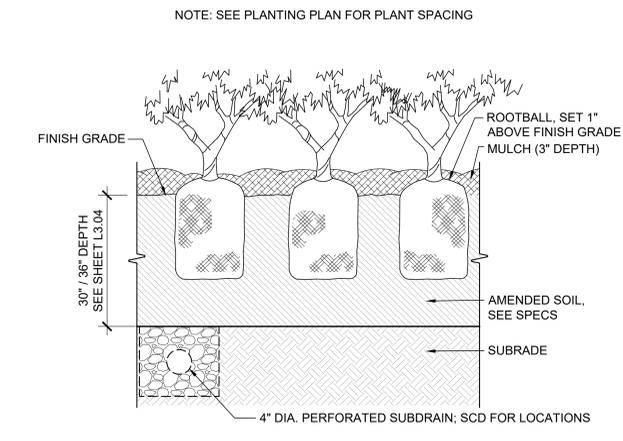
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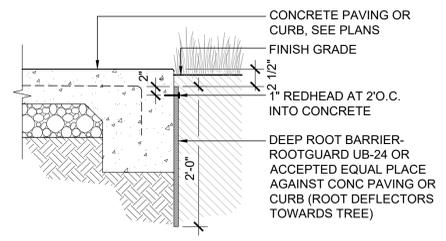
3 TRIANGULAR SHRUB & GROUNDCOVER SPACING
1/2" = 1'-0"



2 RECTANGULAR SHRUB & GROUNDCOVER SPACING
1/2" = 1'-0"

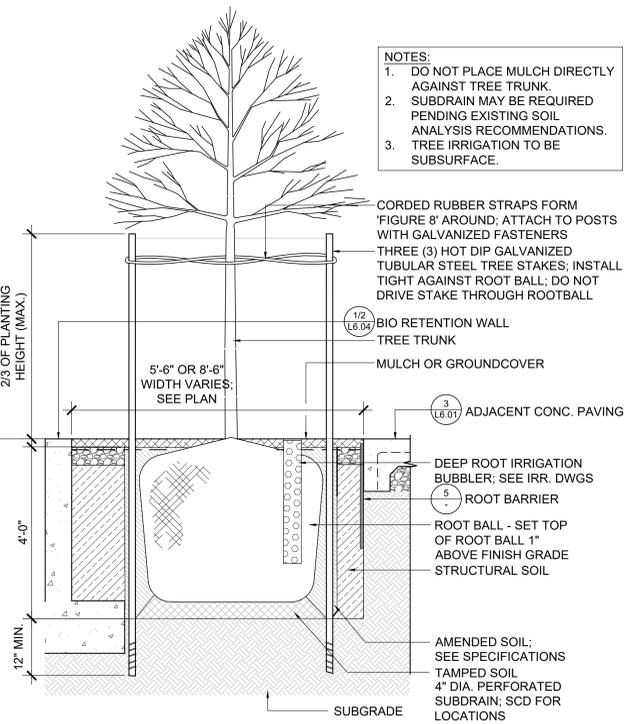
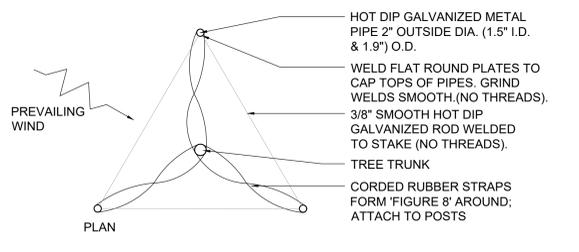


1 SHRUB AND GROUNDCOVER PLANTING
3/4" = 1'-0"

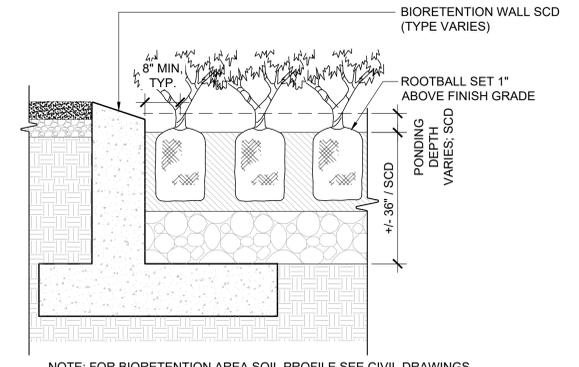


- NOTES:
1. ROOT BARRIERS TO BE CONTINUOUS AND INSTALLED AT WALKS AND CURBS WHERE SHOWN ON PLAN, FOR A DISTANCE OF 6'-0" MIN EACH SIDE OF TREE.
 2. REMOVE DEFECTS FROM CONCRETE EDGE & PLACE ROOT BARRIER FLUSH AGAINST VERTICAL, SMOOTH CONCRETE SURFACE TYP.

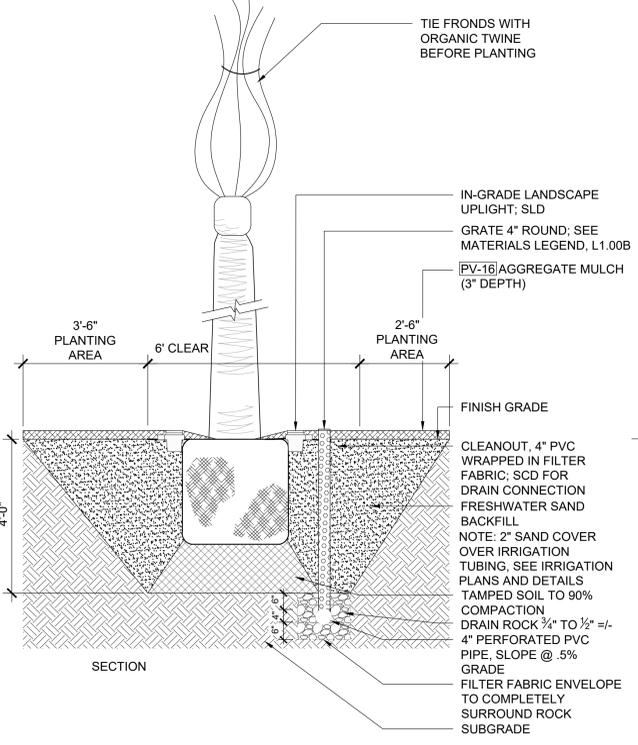
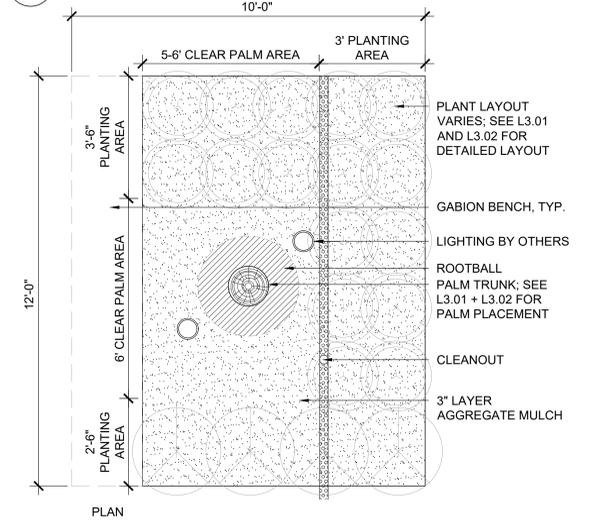
5 ROOT BARRIER
1" = 1'-0"



4 TREE PLANTING
1" = 1'-0"



7 BIORETENTION PLANTING DETAIL (REFERENCE ONLY)
3/4" = 1'-0"



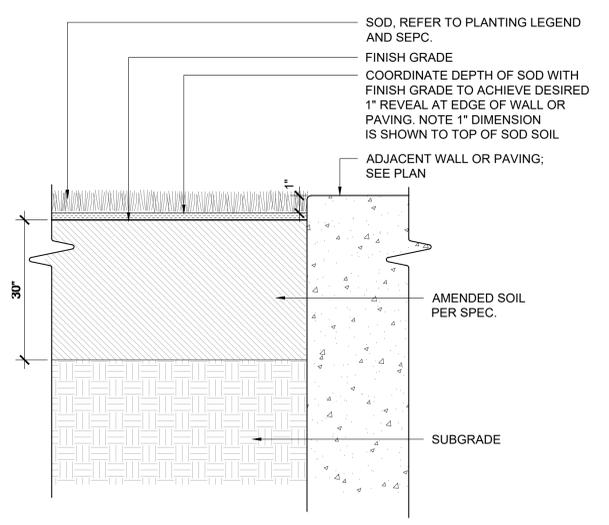
6 PALM PLANTING
1/2" = 1'-0"

10 NOT USED



NOTE: STAGGER PLANTS IN FIELD WITH LANDSCAPE ARCHITECT.

9 SOD INTERFACE WITH PLANTING CONCEPT
N.T.S.



8 SOD MIX AT TERRACES
3" = 1'-0"

IRRIGATION NOTES

- THE CONTRACTOR SHALL REVIEW RELATED DRAWINGS AND SHALL ENSURE COORDINATION WITH ALL APPLICABLE TRADES PRIOR TO SUBMITTING BID.
- THE IRRIGATION SYSTEM SHALL BE INSTALLED IN CONFORMANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES BY LICENSED CONTRACTORS AND EXPERIENCED WORKERS. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND FEES RELATING TO THEIR WORK.
- THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, ETC. SHOWN WITHIN PAVED AREAS IS FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS WHERE POSSIBLE. AVOID ANY CONFLICTS BETWEEN THE SPRINKLER SYSTEM, PLANTING AND ARCHITECTURAL FEATURES. PARALLEL PIPES MAY BE INSTALLED IN COMMON TRENCH. PIPES ARE NOT TO BE INSTALLED DIRECTLY ABOVE ONE ANOTHER.
- DO NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE. IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BECOME FAMILIAR WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, ETC. COORDINATE WORK WITH THE GENERAL CONTRACTOR AND OTHER SUBCONTRACTORS FOR THE LOCATION AND THE INSTALLATION OF PIPE SLEEVES THROUGH WALLS, UNDER ROADWAYS, PAVING, STRUCTURES, ETC. CONTRACTOR TO VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES PRIOR TO THE EXCAVATION OF TRENCHES. CONTRACTOR IS TO REPAIR ANY DAMAGE CAUSED BY THEIR WORK AT NO ADDITIONAL COST TO THE OWNER.
- DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, SLEEVES, ETC., WHICH MAY BE REQUIRED. CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISHED CONDITIONS AFFECTING ALL WORK AND PLAN WORK ACCORDINGLY. FURNISHING SUCH FITTINGS, ETC., AS MAY BE REQUIRED TO MEET SUCH CONDITIONS. DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. THE WORK SHALL BE INSTALLED IN SUCH A MANNER AS TO AVOID CONFLICTS BETWEEN IRRIGATION SYSTEMS, PLANTING, AND ARCHITECTURAL FEATURES.
- ELECTRICAL CONTRACTOR TO SUPPLY 120 VAC (2.5 AMP) SERVICE TO CONTROLLER LOCATION. IRRIGATION CONTRACTOR TO MAKE FINAL CONNECTION FROM ELECTRICAL STUB-OUT TO CONTROLLER. IRRIGATION CONTROL WIRE SHALL BE #14, U.L. APPROVED FOR DIRECT BURIAL. COMMON WIRE SHALL BE #12 U.L. APPROVED AND SHALL BE WHITE IN COLOR. WIRING TO INDIVIDUAL REMOTE CONTROL VALVES SHALL BE COLOR OTHER THAN WHITE.
- EACH CONTROLLER SHALL HAVE ITS OWN INDEPENDENT GROUND WIRE.
- REMOTE CONTROL VALVES SHALL BE WIRED TO CONTROLLER IN SEQUENCE AS SHOWN ON PLANS. RUN WIRE FROM EACH RCV TO THE CONTROLLER. SPLICING WIRES TOGETHER OUTSIDE OF VALVE BOXES WILL NOT BE PERMITTED.
- SPLICING OF 24-VOLT WIRES WILL NOT BE PERMITTED EXCEPT IN VALVE BOXES. LEAVE A 36" COIL OF EXCESS WIRE AT EACH SPlice AND 100 FEET ON CENTER ALONG WIRE RUN. TAPE WIRE IN BUNDLES 10 FEET ON CENTER. NO TAPING PERMITTED INSIDE SLEEVES.
- WIRE CONNECTORS SHALL BE 3M-DBRY-6 DIRECT BURY UNLESS OTHERWISE NOTED.
- INSTALL ONE (1) SPARE CONTROL WIRE FOR EVERY SIX (6) STATIONS ON THE CONTROLLER ALONG THE ENTIRE MAIN LINE. SPARE WIRES SHALL BE THE SAME COLOR (ONE WITH A WHITE STRIPE) AND OF A DIFFERENT COLOR THAN OTHER CONTROL WIRES. LOOP 36" EXCESS WIRE INTO EACH SINGLE VALVE BOX AND INTO ONE VALVE BOX IN EACH GROUP OF VALVES.
- VALVE LOCATIONS SHOWN ARE DIAGRAMMATIC. INSTALL IN GROUND COVER/SHRUB AREAS WHERE POSSIBLE.
- INSTALL VALVE BOXES MINIMUM 12" FROM AND PERPENDICULAR TO WALK, CURB, BUILDING OR LANDSCAPE FEATURE. AT MULTIPLE VALVE BOX GROUPS, EACH BOX SHALL BE AN EQUAL DISTANCE FROM THE WALK, CURB, ETC. AND EACH BOX SHALL BE MINIMUM 12" APART. SHORT SIDE OF VALVE BOXES SHALL BE PARALLEL TO WALK, CURB, ETC.
- LOCATE QUICK COUPLING VALVE 12" FROM HARDSCAPE AREA.
- ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR TO FINISH GRADE OF THE AREA TO BE IRRIGATED UNLESS OTHERWISE DESIGNATED ON THE PLANS.
- IN LOCATIONS WHERE LOW HEAD DRAINAGE WILL CAUSE EROSION AND EXCESS WATER, INSTALL KING BROS. CV SERIES CHECK VALVES IN LATERAL LINES FOR EVERY 10' OF ELEVATION CHANGE.
- FLUSH AND ADJUST ALL SPRINKLER HEADS FOR OPTIMUM PERFORMANCE AND TO PREVENT OVERSPRAY ONTO WALKS, ROADWAYS AND/OR BUILDINGS AS MUCH AS POSSIBLE. THIS SHALL INCLUDE SELECTING THE BEST DEGREE OF FIXED ARC (OR AN ADJUSTABLE ARC IF FIXED ARC DOES NOT MATCH THE ARC TO BE IRRIGATED) TO FIT THE SITE CONDITIONS AND TO THROTTLE THE FLOW CONTROL AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH SYSTEM. ALL MAIN LINES SHALL BE FLUSHED PRIOR TO THE INSTALLATION OF IRRIGATION HEADS. AT 30 DAYS AFTER INSTALLATION EACH SYSTEM SHALL BE FLUSHED TO ELIMINATE GLUE AND DIRT PARTICLES FROM THE LINES.
- WHEN VERTICAL OBSTRUCTIONS (STREET LIGHTS, TREES, FIRE HYDRANTS, ETC.) INTERFERE WITH THE SPRAY PATTERN OF THE HEADS SO AS TO PREVENT PROPER COVERAGE, FIELD ADJUST THE SPRINKLER SYSTEM BY INSTALLING A QUARTER, THIRD OR HALF CIRCLE HEAD AT THE SIDES OF THE OBSTRUCTION SO AS TO PROVIDE PROPER COVERAGE. ALL ADJUSTMENTS SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.
- NOTIFY ARCHITECT OF ANY ASPECTS OF LAYOUT THAT WILL PROVIDE INCOMPLETE OR INSUFFICIENT WATER COVERAGE OF PLANT MATERIAL AND DO NOT PROCEED UNTIL HIS/HER INSTRUCTIONS ARE OBTAINED.
- LOCATE BUBBLERS ON UPHILL SIDE OF TREES. TREE BUBBLERS ARE FOR ESTABLISHMENT AND DROUGHT CONDITIONS. THEY ARE TO BE TURNED OFF AFTER TREES ARE ESTABLISHED AND TURNED ON DURING DROUGHT CONDITIONS.
- IN ADDITION TO THE SLEEVES AND CONDUITS SHOWN ON THE DRAWINGS, THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF SLEEVES AND CONDUITS OF SUFFICIENT SIZE UNDER ALL PAVED AREAS.
- ALL EXCAVATIONS ARE TO BE FILLED WITH COMPACTED BACKFILL. REPAIR ALL SETTLED TRENCHES PROMPTLY, FOR A PERIOD OF 1 YEAR AFTER COMPLETION OF WORK.
- CONTRACTOR SHALL WARRANT THAT THE IRRIGATION SYSTEM WILL BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF 1 YEAR AFTER FINAL ACCEPTANCE OF WORK.
- THE SPRINKLER SYSTEM DESIGN IS BASED ON THE MINIMUM OPERATING PRESSURE SHOWN ON THE IRRIGATION DRAWINGS. VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. REPORT ANY DIFFERENCE BETWEEN THE WATER PRESSURE INDICATED ON THE DRAWINGS AND THE ACTUAL PRESSURE READING AT THE IRRIGATION POINT OF CONNECTION TO THE OWNER'S AUTHORIZED REPRESENTATIVE.
- IRRIGATION DEMAND: REFER TO IRRIGATION POINTS OF CONNECTION.
- OPERATE IRRIGATION CONTROLLER(S) BETWEEN THE HOURS OF 10:00 PM AND 7:00 AM.
- NOTIFY ALL LOCAL JURISDICTIONS FOR INSPECTION AND TESTING OF INSTALLED BACKFLOW PREVENTION DEVICE.
- NOTIFY UNDERGROUND SERVICE ALERT AT 811 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION.

LATERAL LINE SIZING CHART

SPRINKLER TYPE	GPM	NO. OF BUBBLERS*	PIPE SIZE
BUBBLERS - 4 GPH	1-5	1-75	3/4"
	5.1-15	76-225	1"
BUBBLERS - 9 GPH	1-5	1-32	3/4"
	5.1-15	33-96	1"

* QUANTITY INDICATES NO. OF BUBBLERS, NOT NO. OF TREES. THERE ARE TWO BUBBLERS PER TREE AND ONE BUBBLER PER SHRUB. LATERAL LINE FROM REMOTE CONTROL VALVE TO FIRST BUBBLER SHALL BE 1" MINIMUM.

LATERAL LINE SIZING CHART

SPRINKLER TYPE	GALLONS PER MINUTE	PIPE SIZE
SPRAYS & BUBBLERS	1-5	3/4"
	6-10	1"
	11-20	1 1/4"
	21-28	1 1/2"
	29-55	2"

DRIPLINE NOTES

- PLANS ARE DIAGRAMMATIC. INSTALL DRIPLINE AND COMPONENTS PER MANUFACTURERS INSTRUCTIONS AND INSTALLATION DETAILS.
- INSTALL DRIPLINE A MAXIMUM OF 18" APART WITH EMITTERS TRIANGULARLY SPACED. INSTALL 2" FROM PERIMETER OF PLANTED AREA. THERE SHOULD BE A MINIMUM OF TWO DRIPLINE LATERALS IN EACH PLANTED AREA. DRIPLINE SHALL BE INSTALLED AT A CONSISTANT DEPTH THROUGHOUT THE CIRCUIT.
- PLACE AIR/VACUUM RELIEF VALVES AT THE HIGHEST POINTS OF EACH ZONE AND JUST BELOW CHECK VALVES ON SLOPES. INSTALL ONE AIR/VACUUM RELIEF VALVE FOR EVERY 750' OF TOTAL DRIPLINE PER ZONE.
- PLACE FLUSH VALVES AT THE HYDRAULIC CENTER OF THE EXHAUST HEADER OR AT LOW POINT ON SLOPES.
- INSTALL IN-LINE CHECK VALVES ON SLOPES GREATER THAN 3% AND WHERE LOW-LINE DRAINAGE COULD CAUSE WET AREAS IN THE LOWEST AREAS OF AN IRRIGATION ZONE. CHECK VALVES SHALL BE PLACED EVERY 4-5 FEET BETWEEN DRIPLINE LATERALS AND BEFORE THE FLUSH VALVE.
- ON ALL SLOPES AND MOUNDS, PLACE THE DRIPLINE LATERALS PARALLEL TO THE SLOPE CONTOUR WHERE POSSIBLE. INCREASE THE LATERAL SPACING BY 25% ON THE LOWER ONE-THIRD OF THE SLOPE TO AVOID EXCESS DRAINAGE.
- PVC SUPPLY AND FLUSH LINE SIZING GUIDE (ALL SUPPLY AND FLUSH LINES SHALL BE THE SAME SIZE FOR THE ENTIRE ZONE):
 - 0-8 GPM – 3/4"
 - 8.1-15 GPM – 1"
 - 15.1-25 GPM – 1 1/4"
- FITTINGS SHALL BE OF THE SAME MANUFACTURER AS DRIPLINE.
- THOROUGHLY FLUSH EACH INSTALLATION SEGMENT TO ENSURE NO DEBRIS CONTAMINATION OCCURS.
- RUN THE DRIPLINE SYSTEM EVERY DAY OR EVERY OTHER DAY TO ESTABLISH PLANT MATERIAL. MAINTAIN A CONSISTENT MOISTURE BALANCE IN THE SOIL. IT IS IMPORTANT TO KEEP THE SOIL MOIST WITHOUT SATURATION.

IRRIGATION LEGEND

SYMBOL	MODEL NUMBER	DESCRIPTION	PSI	FLOW RATE (GPM)	MAX. RADIUS	MAX. SPACING
▽	570Z-12P-COM-MP-2000-90	TORO POP-UP SHRUB SPRAY WITH HUTNER MP ROTATING NOZ.	40	40-86	19'	18'
⊙	570Z-12P-COM-MP-3000-90	TORO POP-UP SHRUB SPRAY WITH HUTNER MP ROTATING NOZ.	40	86-2.12	27'	26'
⊙	570Z-6P-PRX-COM-O-T-10H-Q	TORO POP-UP SHRUB SPRAY	30	53.28	10'	9'
⊙	570Z-6P-PRX-COM-O-T-15H-Q	TORO POP-UP SHRUB SPRAY	30	1.20.59	15'	14'
■	LF40-PC	TORO PRESSURE COMPENSATING DRIP BUBBLER	25	4 GPH	-	-
△	T-FCH-H-FIPT	TORO DL2000 FLUSH VALVE				
NOT SHOWN	T-YD-500-34	TORO DL2000 AIR VENT				
□	T-DL-MP9	TORO DL2000 POP-UP OPERATION INDICATOR				
⊙	700-OMR-100 SERIES/LT-T SERIES	IRRITROL REMOTE CONTROL VALVE WITH PRESSURE REGULATION / KBI PVC BALL VALVE				
⊙	DZK-700-1-LF / LT-1000-T	TORO DRIP ZONE VALVE KIT - INCL. REMOTE CONTROL VALVE, WYE FILTER WITH 150 MESH SCREEN, AND PRESET PRESSURE REGULATOR / KBI PVC BALL VALVE (1.8 GPM)				
◆	33NP / SH-0	RAIN BIRD QUICK COUPLING VALVE WITH 3/4" HOSE SWIVEL				
T	T-113IRR	NIBCO GATE VALVE (LINE SIZE)				
⊗	FS-B100	IRRITROL BRASS FLOW SENSOR				
⊗	2160-K	GRISWOLD 1 1/2" MASTER CONTROL VALVE (NORMALLY OPEN)				
⊗	975XL2-1 1/2" / GS-1	WILKINS LEAD-FREE REDUCED PRESSURE BACKFLOW PREVENTER IN GUARDSHACK ENCLOSURE				
⊗	RS-1000	IRRITROL WIRELESS RAIN SENSOR				
⊗	EGP-36-SPED PMR-KIT	RAINMASTER EAGLE PLUS CENTRAL 36 STATION CONTROLLER IN TOP ENTRY ENCLOSURE PROMAX MAINTENANCE REMOTE KIT				
CONTROLLER AND STATION NUMBER						
APPLICATION RATE (INCHES)						
OPERATING PRESSURE (PSI)						
APPROXIMATE GALLONS PER MINUTE						
REMOTE CONTROL VALVE SIZE						
MAIN LINE: 1120-SCHEDULE 40 PVC SOLVENT WELD PLASTIC PIPE WITH SCHEDULE 80 AND SCHEDULE 40 PVC SOLVENT WELD FITTINGS. 24" COVER.						
LATERAL LINE: 1120-CLASS 200 PSI PVC SOLVENT WELD PIPE WITH SCHEDULE 40 PVC SOLVENT WELD FITTINGS. 18" COVER.						
SUB-SURFACE DRIPLINE: TORO DL2000-RGP-210-120 DRIPLINE WITH ROOT GUARD. USE ONLY DL2000 DRIPLINE LOC-EZE FITTINGS. 2" COVER. (12" EMITTER SPACING; .53 GPH PER EMITTER)						
SLEEVE (SL): 1120-CLASS 200 PVC PLASTIC PIPE. 24" COVER.						

ALAMEDA
LANDSCAPE WATER USE STATEMENT

PROJECT NAME: ALAMEDA POINT WATERFRONT PARK
PROJECT ADDRESS: ALAMEDA POINT BLOCK 5

PREPARED BY: JANET LUEHRS (CID, CLIA #43274)
BROOKWATER INC., IRRIGATION CONSULTANTS
480 SAINT JOHN STREET, SUITE 220
PLEASANTON, CA 94566
925-856-0417
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janet@brookwater.com (e-mail)

"I have complied with the criteria of the ordinance and applied them accordingly for the efficient use of water in the irrigation design plan."

Signed: *Janet Luehrs*

PART ONE	MAXIMUM APPLIED WATER ALLOWANCE (MAWA)
	MAWA = Eto x .62 x [(ETAFx HA) + ((1-ETAF) x SLA)]
YEARLY Eto	41.8
CONVERSION FACTOR	0.62
ETAF	0.45
TOTAL IRRIGATED LANDSCAPE AREA (HA)	43,803 SQUARE FEET
SPECIAL LANDSCAPE AREA (SLA)	0 SQUARE FEET
LANDSCAPE WATER ALLOWANCE	510,839 GALLONS PER YEAR
TOTAL ACRE FEET	1.57 ACRE FEET

PART TWO	ESTIMATED TOTAL WATER USE (ETWU)
	(AVERAGE ETAF AND ETWU FROM WATER EFFICIENT LANDSCAPE WORKSHEET)
AVERAGE ETAF FOR REGULAR LANDSCAPE AREAS (TOTAL ETAF x AREA / TOTAL AREA)	0.32
ETWU FOR REGULAR LANDSCAPE AREAS	358,548 GALLONS PER YEAR
SITE WIDE ETAF	0.32
ETWU FOR ALL LANDSCAPE AREAS	358,548 GALLONS PER YEAR
TOTAL ACRE FEET	1.10 ACRE FEET

HYDROZONE SUMMARY

*Hydrozone Description	Total Sq. Ft.	% of Landscape
Cool Season Turf (CST)	0	0.0%
Warm Season Turf (WST)	0	0.0%
High Water Use Plants (HW)	0	0.0%
Bioretention Plants (BR)	0	0.0%
Medium Water Use Plants (MW)	0	0.0%
Low Water Use Plants (LW)	36,075	100.0%
Very Low Water Use Plants (VLW)	0	0.0%
Water Feature	0	0.0%
Special Landscape Area (SLA)	0	0.0%
TOTAL	36,075	100.0%

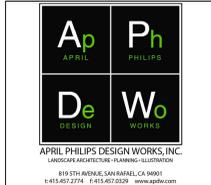
****Irrigation Method**

**Irrigation Method	Total Sq. Ft.	% of Landscape
Rotor (FC-R, PC-R)	0	0.0%
Multi-Stream Rotator (MR)	5,630	12.9%
Spray (S)	7,728	17.6%
Bubbler (B)	566	1.3%
Drip (D)	0	0.0%
In-Line Drip (DL)	29,879	68.2%
Micro Spray (MS)	0	0.0%
Other (O)	0	0.0%

**ALAMEDA POINT WATERFRONT PARK
WATER EFFICIENT LANDSCAPE WORKSHEET**

Reference Evapotranspiration (Eto) 41.8

ZONE NO.	PLANT TYPE	HYDROZONE* (PLANT WATER USE)	PLANT FACTOR (PF)	IRRIGATION METHOD**	IRRIGATION EFFICIENCY (IE)	ETAF (PF/IE)	HYDROZONE AREA (HA) (Sq Ft)	ETAF x HA	ESTIMATED TOTAL WATER USE (ETWU)	% LANDSCAPE AREA
REGULAR LANDSCAPE AREA										
C-1	SHRUB	LW	0.30	DL	0.81	0.38	1,580	601	15,576	3.6%
C-2	SHRUB	LW	0.30	DL	0.81	0.38	1,085	413	10,703	2.5%
C-3	SHRUB	LW	0.30	DL	0.81	0.38	1,745	664	17,208	4.0%
C-4	SHRUB	LW	0.30	DL	0.81	0.38	1,375	523	13,554	3.1%
C-5	SHRUB	LW	0.30	DL	0.81	0.38	2,965	1,089	28,223	6.5%
C-6	SHRUB	LW	0.30	DL	0.81	0.38	1,948	741	19,204	4.4%
C-7	SHRUB	LW	0.30	DL	0.81	0.38	1,777	676	17,519	4.1%
C-8	SHRUB	LW	0.30	DL	0.81	0.38	1,577	600	15,550	3.6%
C-9	SHRUB	LW	0.30	DL	0.81	0.38	778	296	7,671	1.8%
C-10	SHRUB	LW	0.30	DL	0.81	0.38	1,467	558	14,461	3.3%
C-11	SHRUB	LW	0.30	DL	0.81	0.38	1,690	643	16,664	3.9%
C-12	TREE	LW	0.30	B	0.81	0.38	75	29	752	0.2%
C-13	TREE	LW	0.30	B	0.81	0.38	239	91	2,358	0.5%
C-14	SHRUB	LW	0.30	DL	0.81	0.38	1,387	528	13,684	3.2%
C-15	SHRUB	LW	0.30	DL	0.81	0.38	2,822	1,020	26,434	6.1%
C-16	SHRUB	LW	0.30	DL	0.81	0.38	1,378	524	13,580	3.1%
C-17	SHRUB	LW	0.30	DL	0.81	0.38	1,643	625	16,198	3.8%
C-18	TREE	LW	0.30	B	0.81	0.38	126	48	1,244	0.3%
C-19	TREE	LW	0.30	B	0.81	0.38	126	48	1,244	0.3%
C-20	SHRUB	LW	0.30	DL	0.81	0.38	2,315	890	22,806	5.3%
C-21	SHRUB	LW	0.30	DL	0.81	0.38	2,174	827	21,433	5.0%
C-22	SHRUB	LW	0.30	MR	0.75	0.40	2,448	980	25,398	5.6%
C-23	SHRUB	LW	0.30	MR	0.75	0.40	1,051	421	10,911	2.4%
C-24	SHRUB	LW	0.30	MR	0.75	0.40	2,131	853	22,106	4.9%
C-25	SHRUB	LW	0.30	DL	0.81	0.38	413	157	4,069	0.9%
C-26	SHRUB	TEMP	0.00	S	0.75	0.00	470	0	0	1.1%
C-27	SHRUB	TEMP	0.00	S	0.75	0.00	470	0	0	1.1%
C-28	SHRUB	TEMP	0.00	S	0.75	0.00	479	0	0	1.1%
C-29	SHRUB	TEMP	0.00	S	0.75	0.00	908	0	0	2.1%
C-30	SHRUB	TEMP	0.00	S	0.75	0.00	970	0	0	2.2%
C-31	SHRUB	TEMP	0.00	S	0.75	0.00	616	0	0	1.4%
C-32	SHRUB	TEMP	0.00	S	0.75	0.00	549	0	0	1.3%
C-33	SHRUB	TEMP	0.00	S	0.75	0.00	3,268	0	0	7.5%
TOTALS (REGULAR LANDSCAPE AREAS)							43,803	13,835	358,548	100.0%
SPECIAL LANDSCAPE AREA										
							0	0	0	0.0%
TOTALS (SPECIAL LANDSCAPE AREAS)							0	0	0	0.0%
TOTALS FOR ALL AREAS							43,803	13,835	358,548	100%



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ALAMEDA POINT WATERFRONT PARK
Alameda Point Block 5 Alameda, California

Xref: lapslamp 2016.dwg

Date: February 13, 2020
Project Number: 18dw285
Drawn by: CK, SY, GY
Checked by: AP, CH
Scale: As Noted

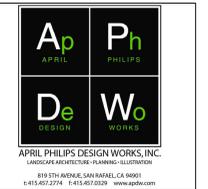
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PRICING 8/15/16
PERMIT 9/19/16
PERMIT 11/22/16
PRICING 1/30/20
PERMIT 2/13/20

Key Map

Sheet Title:
Irrigation Notes and Legend

L5.00

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ALAMEDA POINT WATERFRONT PARK

Alameda Point Block 5 Alameda, California

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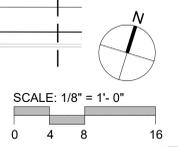
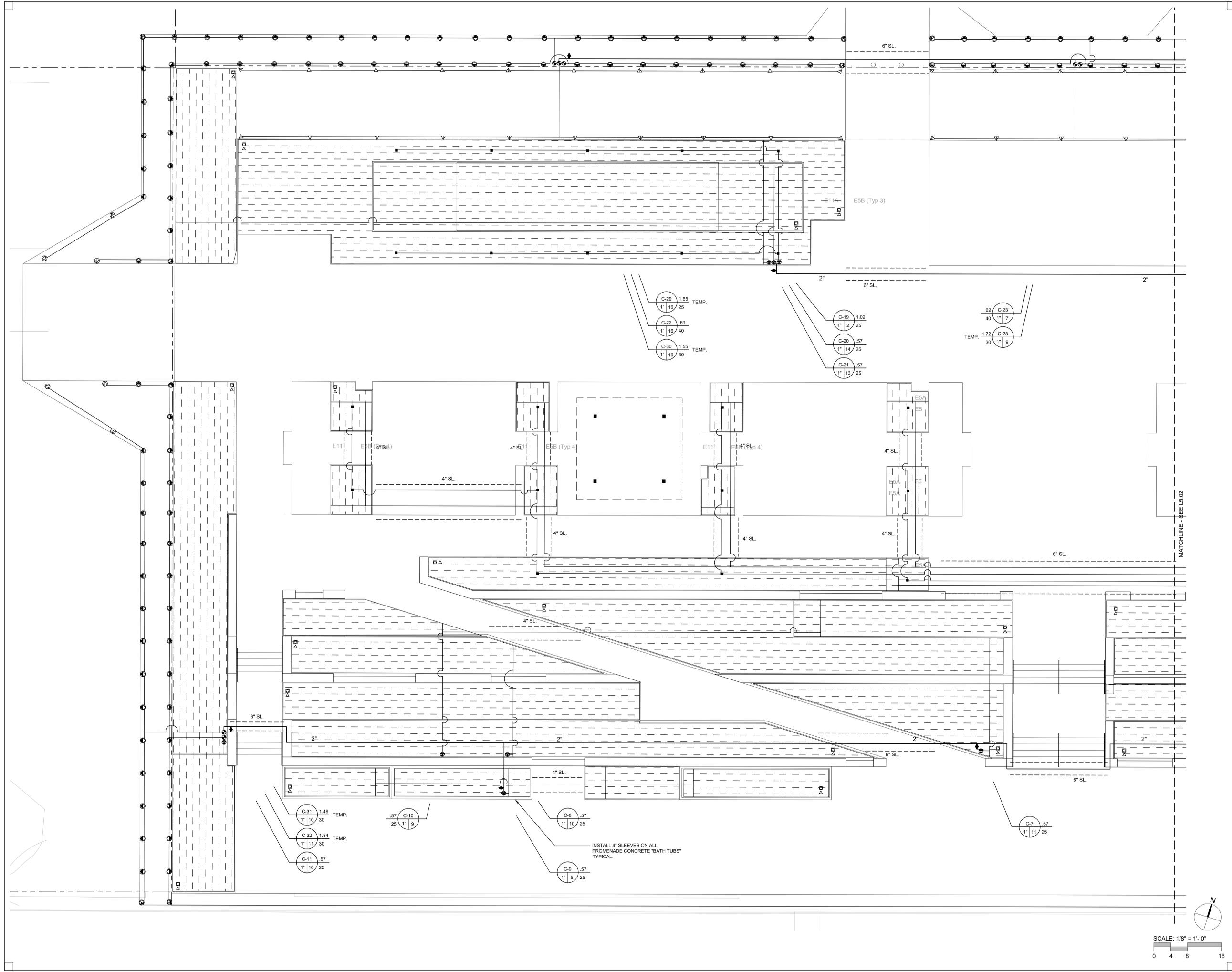
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PRICING	1/30/20
PERMIT	2/13/20

Key Map

Sheet Title:
Irrigation Plan

L5.01



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**ALAMEDA POINT
WATERFRONT PARK**
Alameda Point Block 5 Alameda, California

Xref: lapstamp 2016.dwg

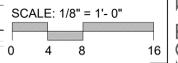
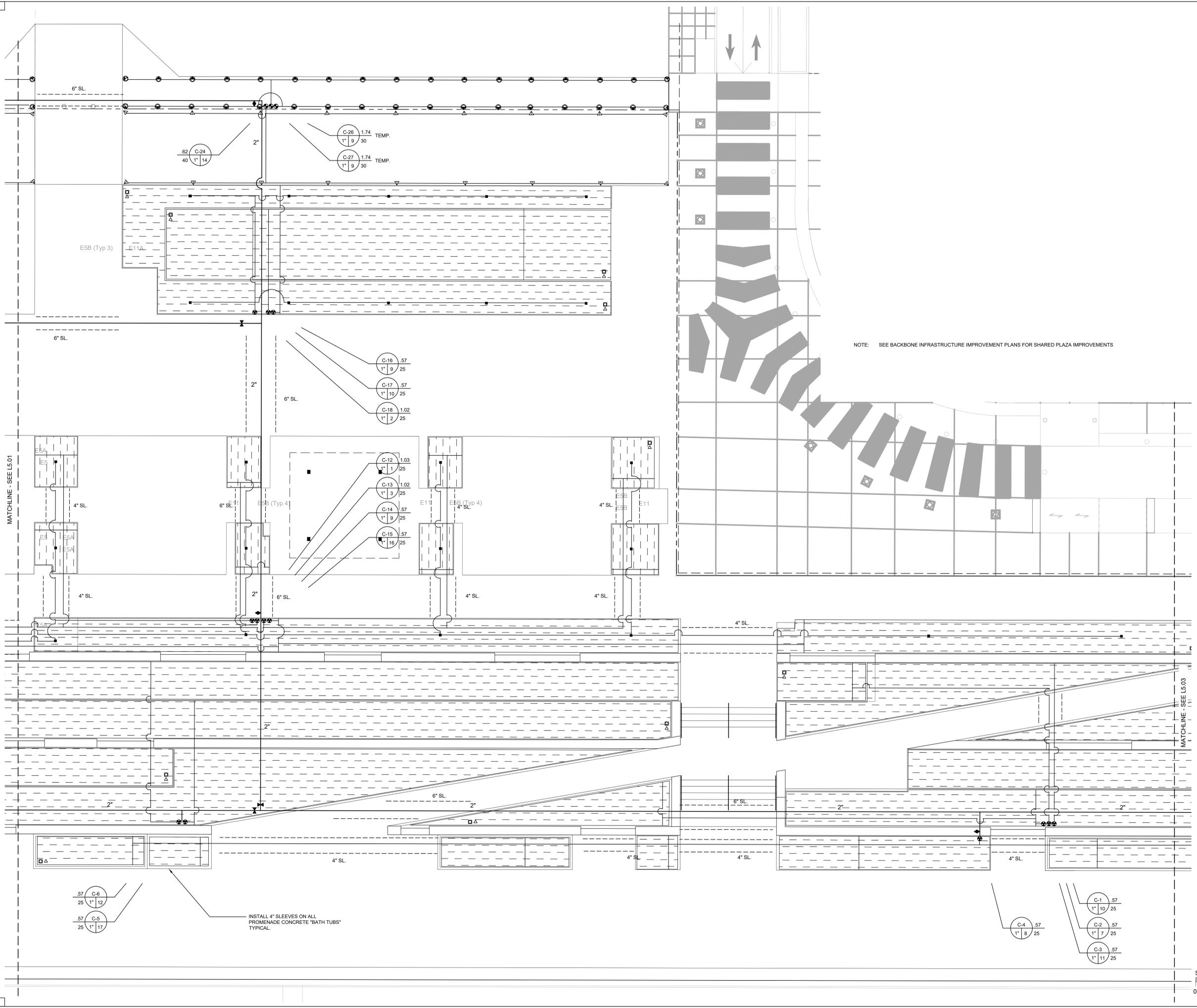
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PROJECT STATUS	
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PERMIT	11/22/16
PRICING	1/30/20
PERMIT	2/13/20

Key Map

Sheet Title:
Irrigation Plan

L5.02



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ALAMEDA POINT WATERFRONT PARK
 Alameda Point Block 5 Alameda, California

Xref: lapstamp 2016.dwg

Date: February 13, 2020
 Project Number: 18dw285
 Drawn by: CK, SY, GY
 Checked by: AP,CH
 Scale: As Noted

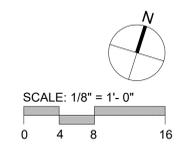
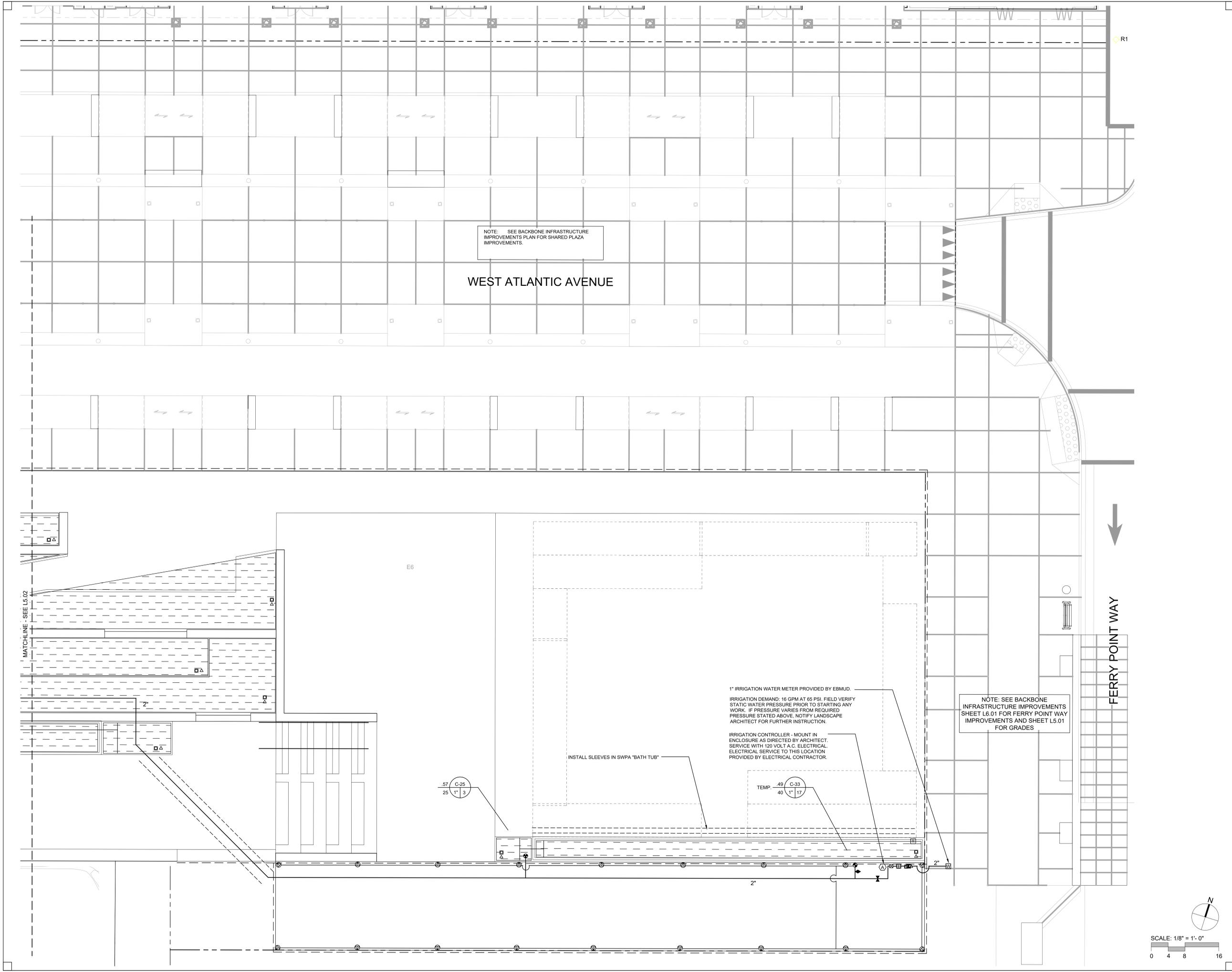
PROJECT STATUS	
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PERMIT	9/19/16
PERMIT	11/22/16
PRICING	1/30/20
PERMIT	2/13/20

Key Map

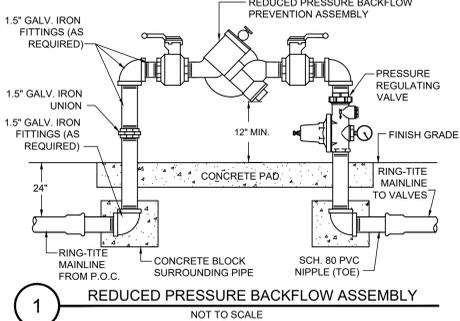
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Irrigation Plan

L5.03

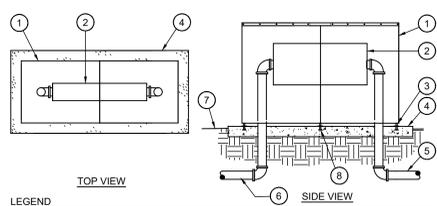
NOT FOR CONSTRUCTION



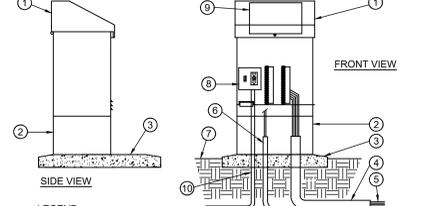
NOTE: EVENLY COAT METAL FITTINGS EXPOSED TO SOIL AND CONCRETE WITH 3M SCOTCHRAP PIPE PRIMER AND THEN WRAP WITH 3M SCOTCHRAP NO. 51 BLACK TAPE (3/4" OVERLAP). USE DIELECTRIC FITTINGS WHERE DISSIMILAR METALS COME INTO CONTACT.



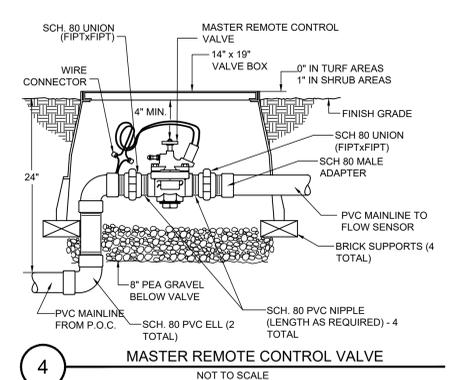
1 REDUCED PRESSURE BACKFLOW ASSEMBLY
NOT TO SCALE



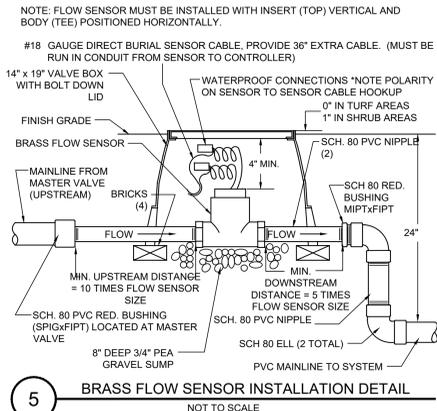
2 STRONG BOX BACKFLOW ENCLOSURE
NOT TO SCALE



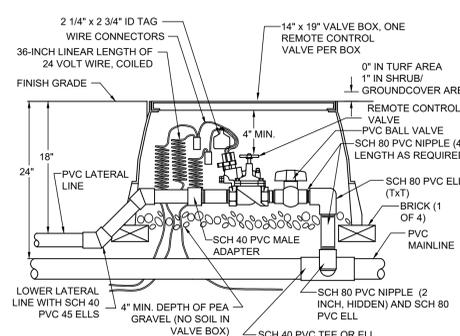
3 CONTROLLER ENCLOSURE - TOP ENTRY
NOT TO SCALE



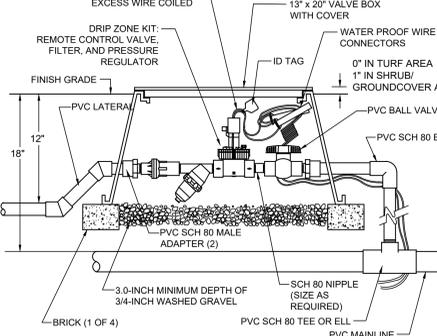
4 MASTER REMOTE CONTROL VALVE
NOT TO SCALE



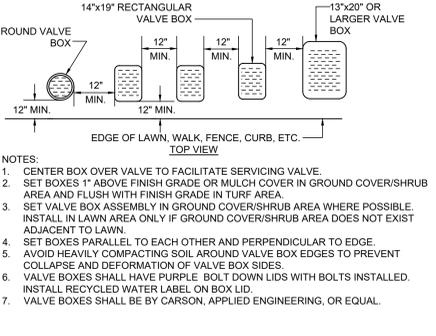
5 BRASS FLOW SENSOR INSTALLATION DETAIL
NOT TO SCALE



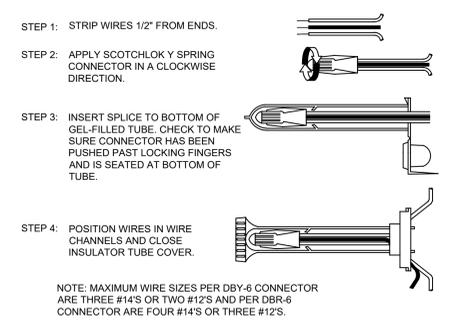
6 REMOTE CONTROL VALVE & BALL VALVE
NOT TO SCALE



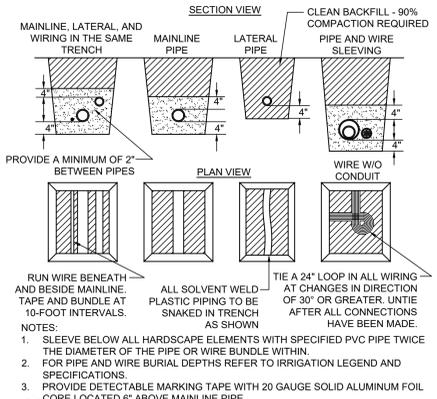
7 TORO DRIP ZONE KIT
NOT TO SCALE



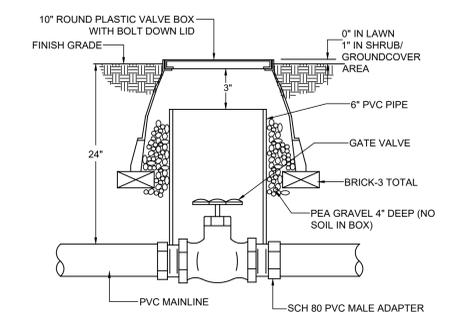
8 VALVE BOX INSTALLATION DETAIL
NOT TO SCALE



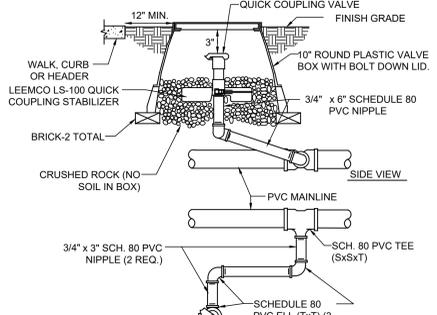
9 WIRE CONNECTION DETAIL
NOT TO SCALE



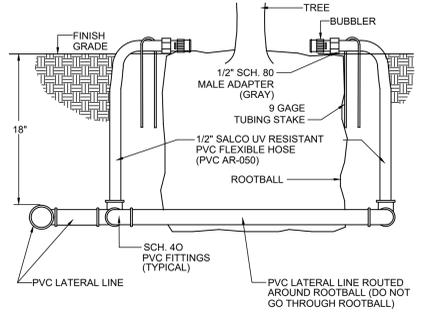
10 PIPE AND WIRE TRENCHING
NOT TO SCALE



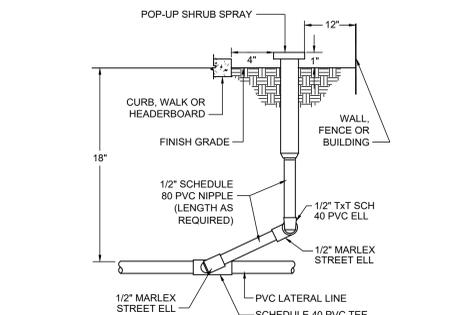
11 GATE VALVE DETAIL - 2\"/>



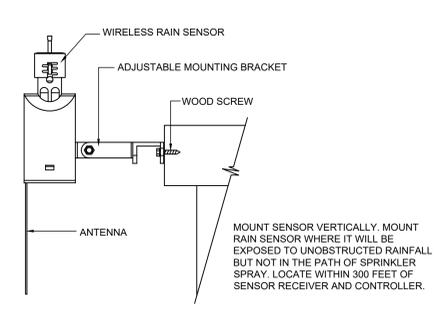
12 QUICK COUPLER IN BOX DETAIL
NOT TO SCALE



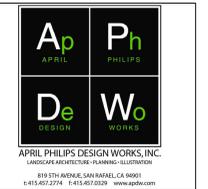
13 TREE BUBBLER DETAIL
NOT TO SCALE



14 SHRUB POP-UP INSTALLATION DETAIL
NOT TO SCALE



15 WIRELESS RAIN SENSOR INSTALLATION
NOT TO SCALE



BROOKWATER
IRRIGATION CONSULTANTS
480 ST. JOHN STREET, SUITE 220
PLEASANTON, CALIFORNIA 94566
TEL 925.855.0417 FAX 925.855.0357
E MAIL JANE@BROOKWATER.COM



ALAMEDA POINT WATERFRONT PARK
Alameda Point Block 5 Alameda, California

Xref: lapslamp 2016.dwg

Date: February 13, 2020
Project Number: 18dw285
Drawn by: CK, SY, GY
Checked by: AP, CH
Scale: As Noted

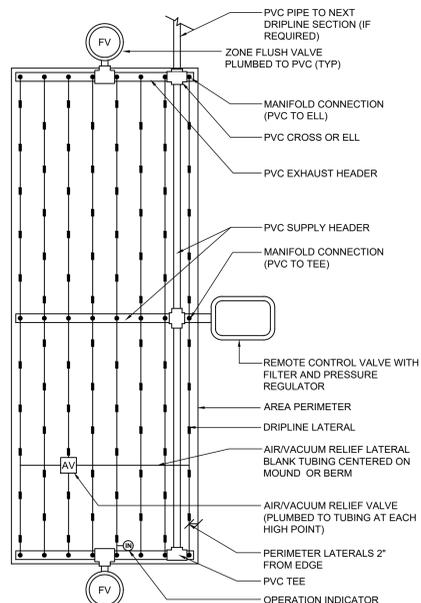
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PERMIT	9/19/16
PERMIT	11/22/16
PRICING	1/30/20
PERMIT	2/13/20

Key Map

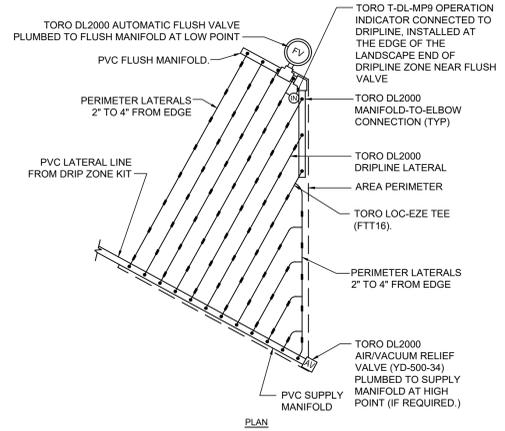
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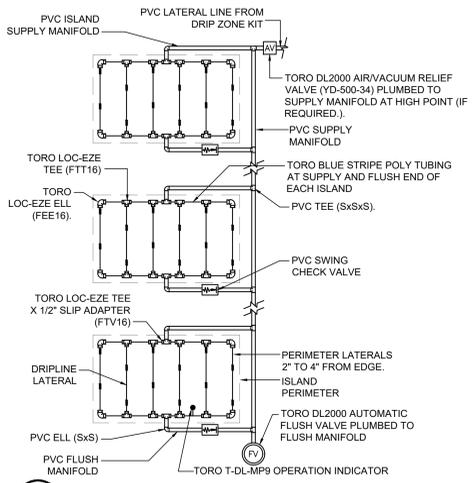
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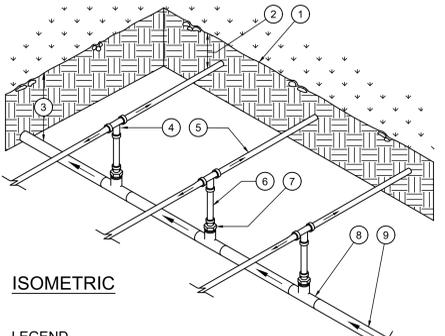
16 CENTER FEED INLINE DRIP LAYOUT
NOT TO SCALE



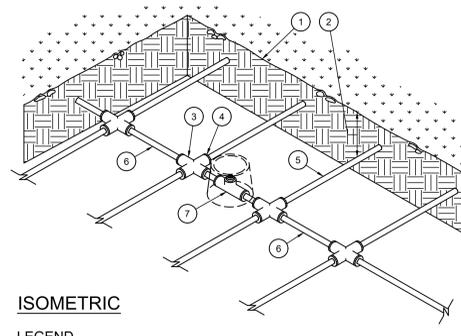
17 TYPICAL ISLAND LAYOUT END FEED
NOT TO SCALE



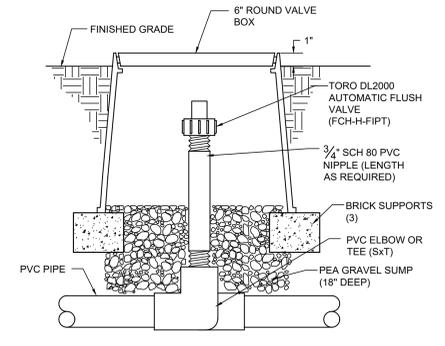
18 TYPICAL ISLAND LAYOUT
NOT TO SCALE



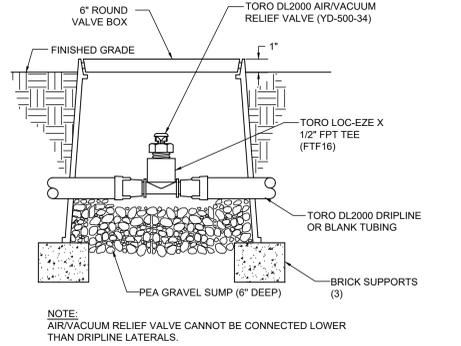
19 ISOMETRIC CENTER FEED MANIFOLD
NOT TO SCALE



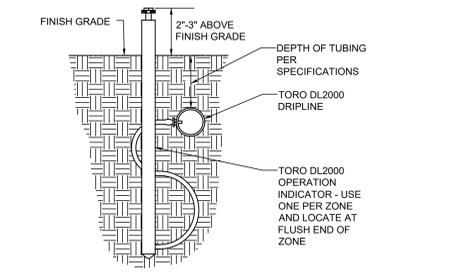
20 ISOMETRIC AIR/VACUUM RELIEF LATERAL
NOT TO SCALE



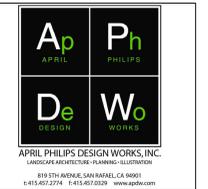
21 TORO DL2000 AUTOMATIC FLUSH VALVE - PLUMBED TO PVC
NOT TO SCALE



22 TORO DL2000 AIR/VACUUM RELIEF VALVE - PLUMBED TO TUBING
NOT TO SCALE



23 TORO DL2000 OPERATION INDICATOR
NOT TO SCALE



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E-MAIL JANE1@BROOKWATER.COM



ALAMEDA POINT WATERFRONT PARK
Alameda Point Block 5 Alameda, California

Xref: lapslamp 2016.dwg

Date: February 13, 2020
Project Number: 18dw285
Drawn by: CK, SY, GY
Checked by: AP, CH
Scale: As Noted

PROJECT STATUS	
PRICING	8/15/16
PERMIT	9/19/16
PERMIT	11/22/16
PRICING	1/30/20
PERMIT	2/13/20

Key Map

Sheet Title:
Irrigation Details

L5.05

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ALAMEDA POINT WATERFRONT PARK

Alameda Point Block 5 Alameda, California

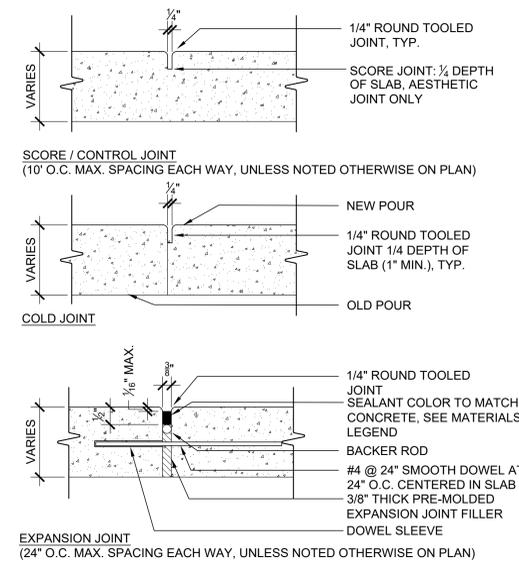
Date: February 13, 2020
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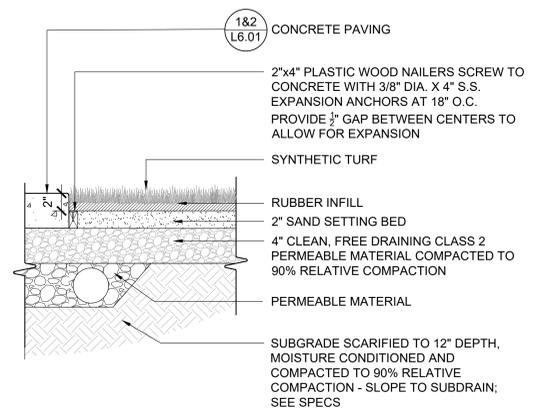
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Construction Details

L6.01

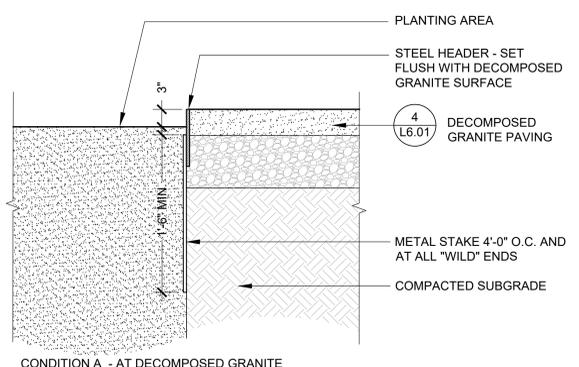


6 NOT USED

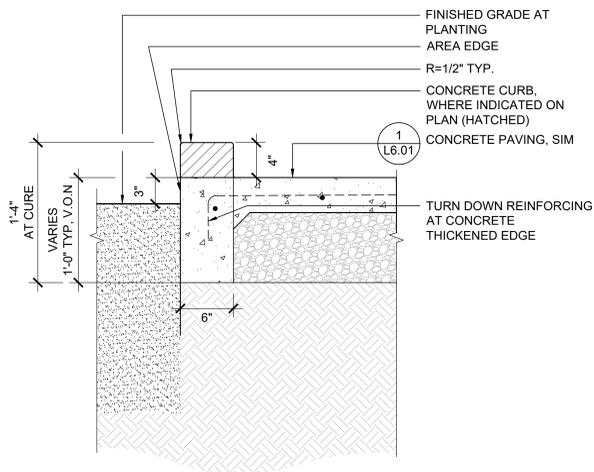
3 TYP. CONCRETE PAVING JOINT (PV-2,PV-3)
3" = 1'-0"



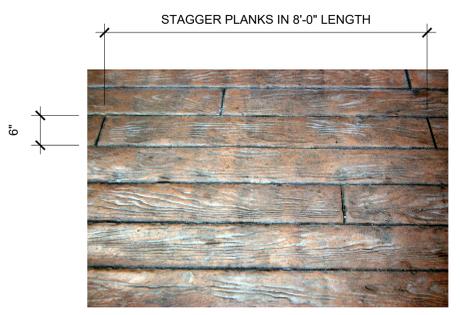
8 SYNTHETIC TURF EDGE CONDITIONS (PV-9)



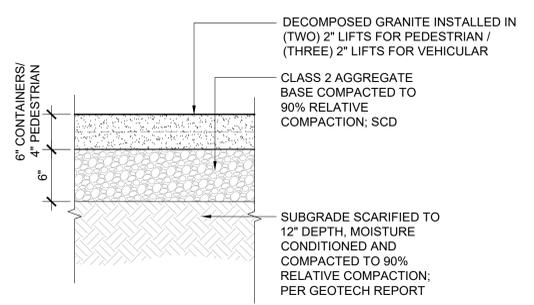
5 EDGE CONDITION AT DECOMPOSED GRANITE (PV-6,PV-7)
1 1/2" = 1'-0"



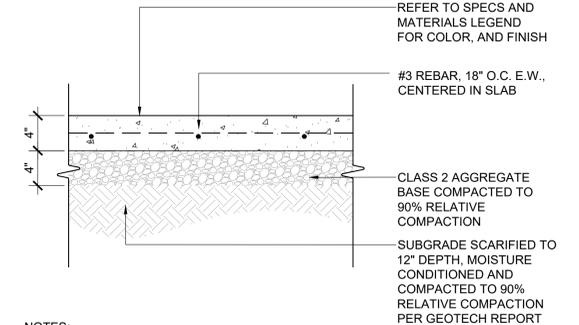
2 CONCRETE PAVING - THICKENED EDGE OR CURBED (PV-3)
1 1/2" = 1'-0"



7 STAMPED WOOD ENLARGEMENT (PV-1)



4 DECOMPOSED GRANITE PAVING (PV-6,PV-7)
1 1/2" = 1'-0"



1 CONCRETE PAVING - PEDESTRIAN (PV-2,PV-3)
1 1/2" = 1'-0"

NOTES:
 1. REFERENCE DETAIL 4 THIS SHEET FOR TYPICAL JOINT DETAILS.
 2. REFERENCE DETAIL 3 THIS SHEET FOR TYPICAL CONDITION AT PLANTING TURNDOWN.

NOT FOR CONSTRUCTION

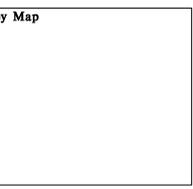


ALAMEDA POINT
WATERFRONT PARK
 Alameda Point Block 5 Alameda, California



Date: February 13, 2020
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 Drawn by: CK, SY, GY
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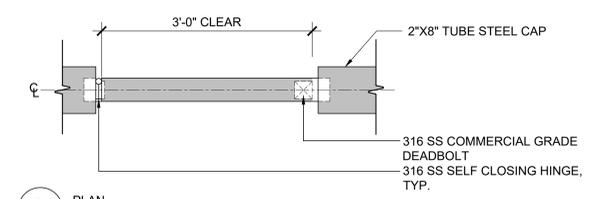
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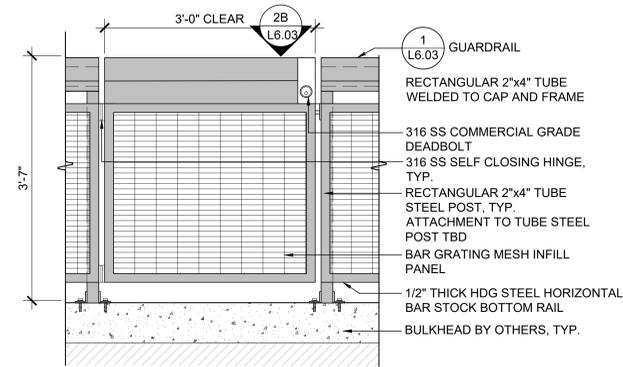
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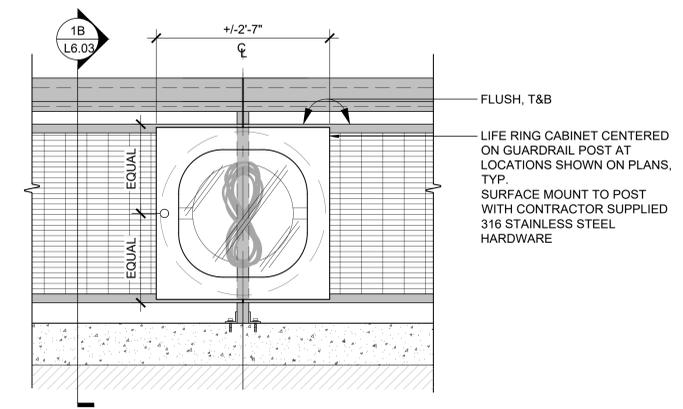
NOTE: SHOP DRAWINGS REQUIRED. REFER TO GENERAL NOTES (SHEET L0.01) AND MATERIALS SCHEDULE (SHEETS L1.00A).



B PLAN



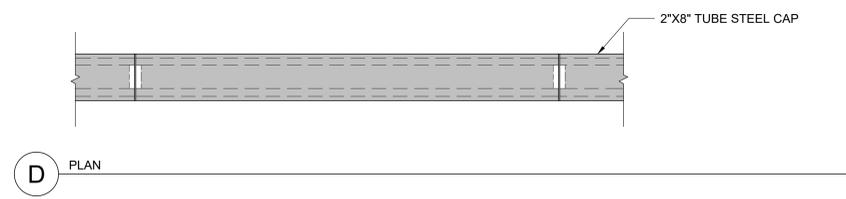
A ELEVATION (VIEW FROM PROMENADE)



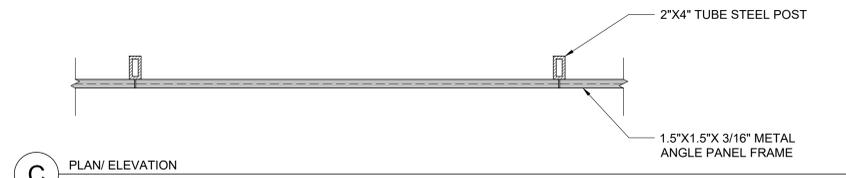
3 LIFE RING CABINET (A-11)
1"=1'-0"

2 GUARDRAIL GATE (R-3)
1"=1'-0"

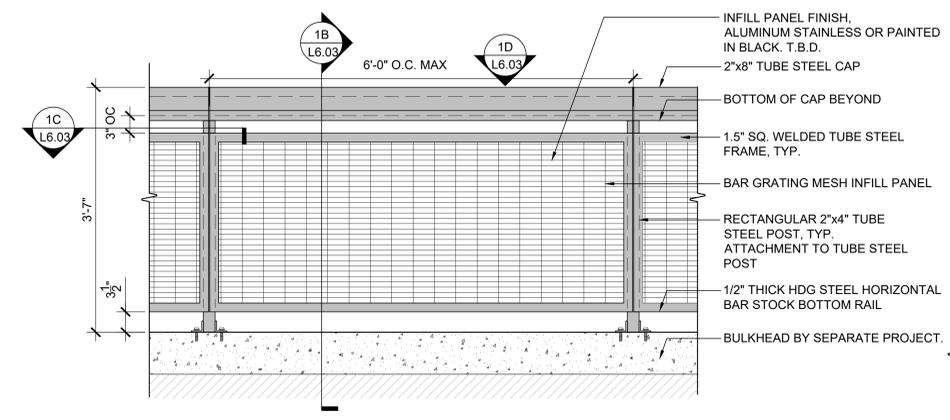
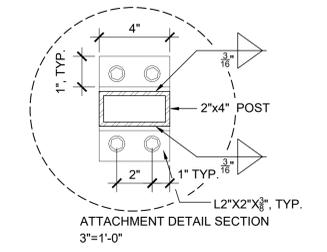
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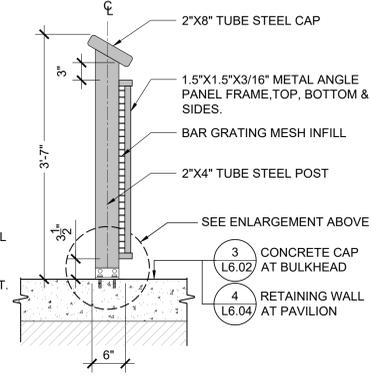
D PLAN



C PLAN/ ELEVATION



A ELEVATION (VIEW FROM PROMENADE)

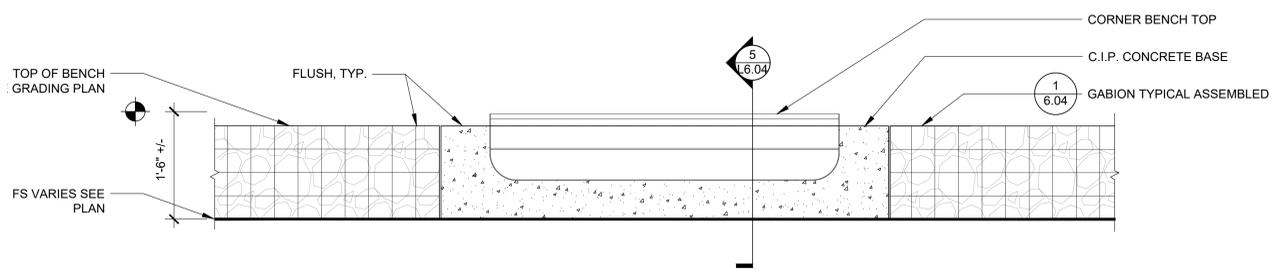


B SECTION

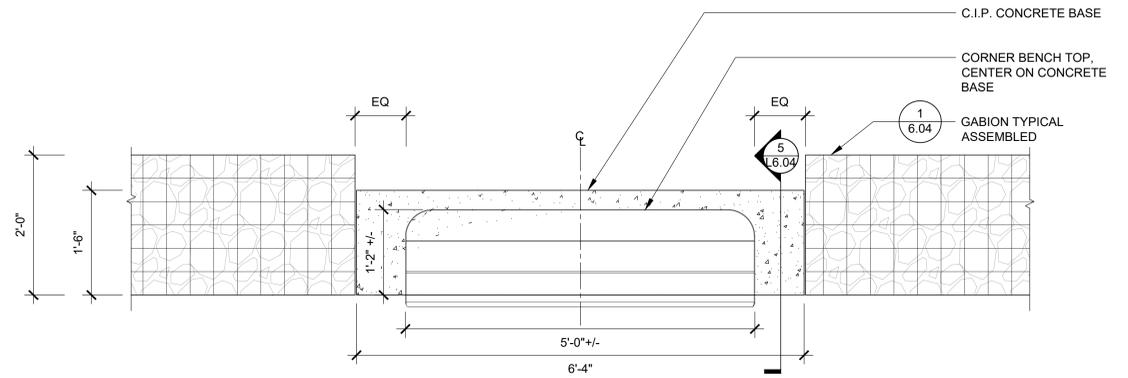
4 BULKHEAD ATTACHMENT
1"=1'-0"

1 PROMENADE RETAINING WALL WITH GUARDRAIL (R-1)
1"=1'-0"

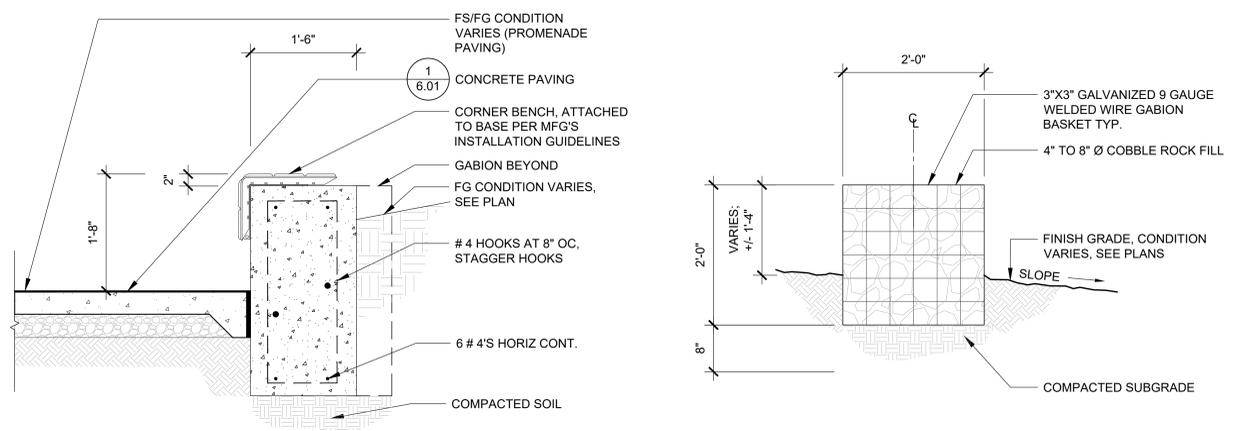
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4 CORNER BENCH TOP - FRONT ELEVATION
 1" = 1'-0"

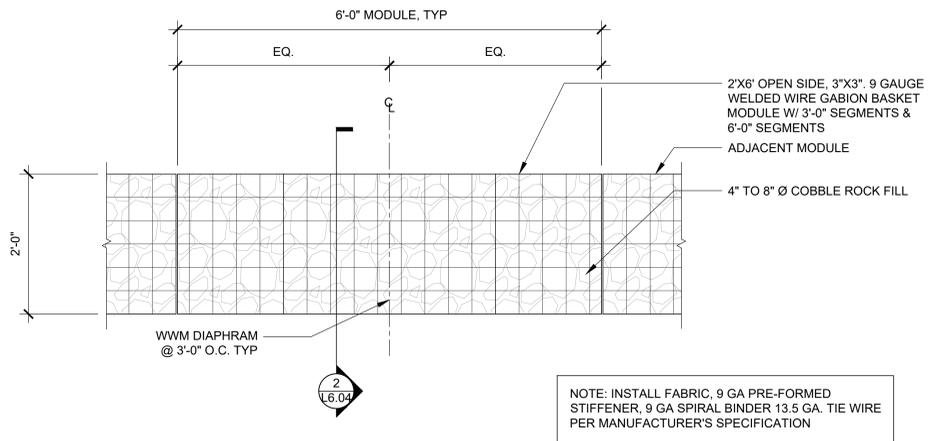


3 CORNER BENCH TOP - PLAN (A-4)
 1" = 1'-0"



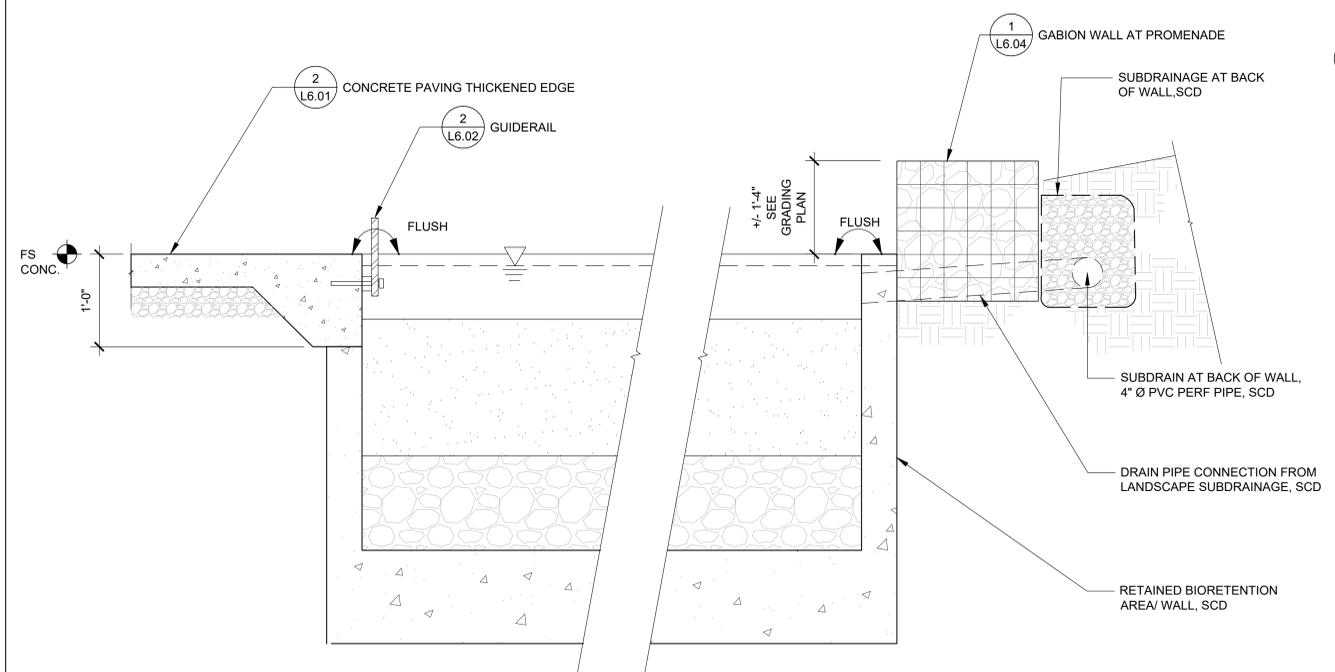
5 CORNER BENCH SECTION (W-2)
 1" = 1'-0"

2 GABION BASKET AT SLOPED TERRACES - SECTION V (W-1)
 1" = 1'-0"



1 TYPICAL ASSEMBLED GABION - PLAN (W-1)
 1" = 1'-0"

NOTE: INSTALL FABRIC, 9 GA PRE-FORMED STIFFENER, 9 GA SPIRAL BINDER 13.5 GA. TIE WIRE PER MANUFACTURER'S SPECIFICATION



6 RETAINED BIORETENTION AREA AT PROMENADE/GABION WALL - SECTION
 1" = 1'-0"

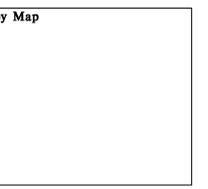
NOT FOR CONSTRUCTION

ALAMEDA POINT
WATERFRONT PARK
 Alameda Point Block 5 Alameda, California



Date: February 13, 2020
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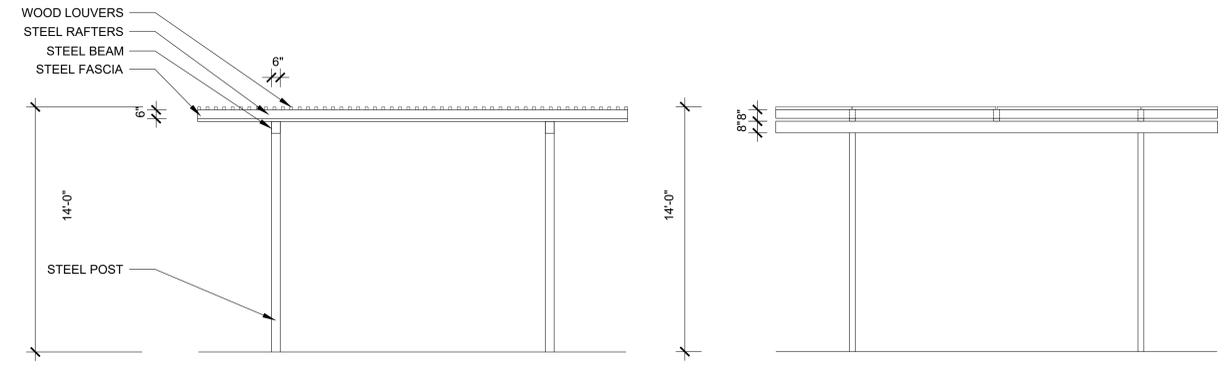


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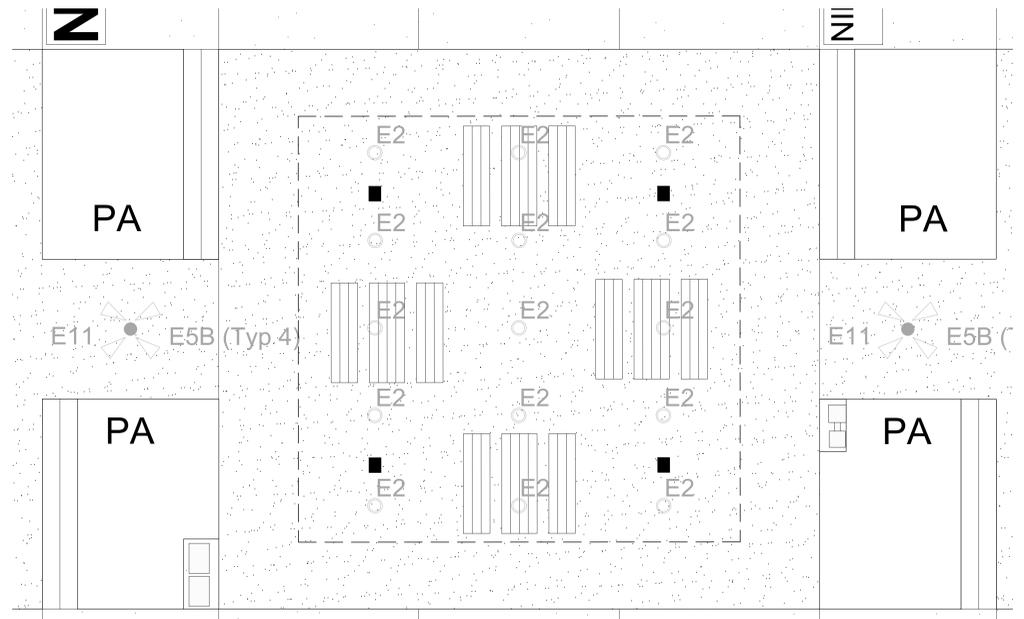


3 CUSTOM TELLIS CONCEPT
 N.T.S

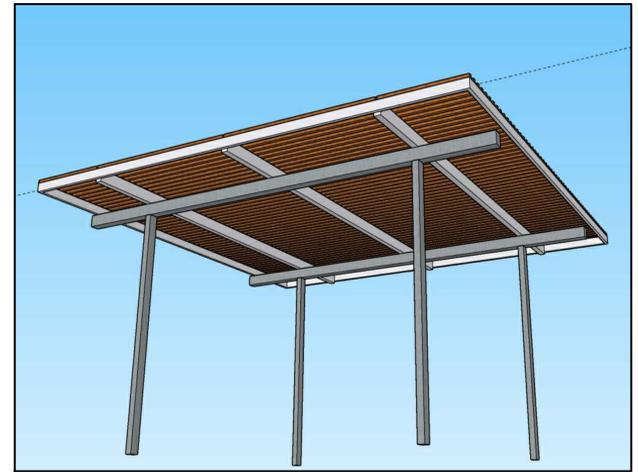


5 TRELLIS SECTION
 1/4"=1'-0"

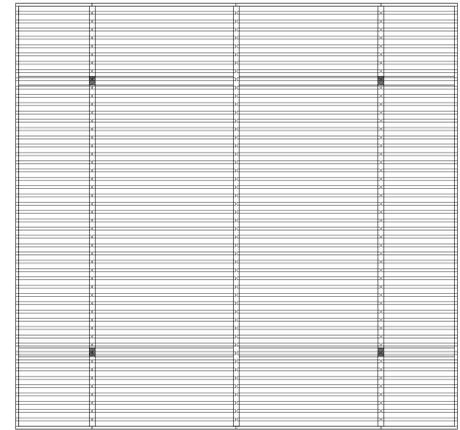
2 TRELLIS ELEVATION
 1/4"=1'-0"



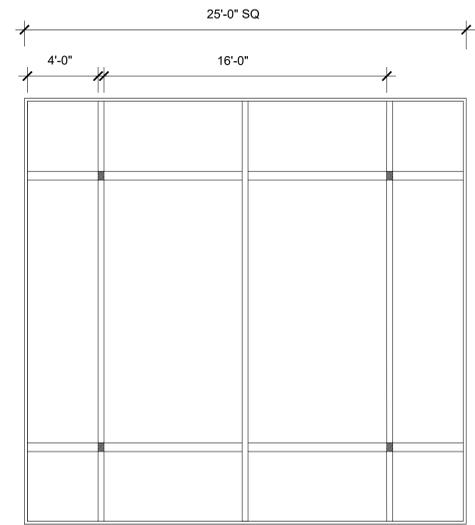
8 TRELLIS - LAYOUT PLAN
 1/4"=1'-0"



6 TRELLIS AXONOMETRIC
 1/4"=1'-0"



4 TRELLIS LOUVER ROOF PLAN
 1/4"=1'-0"



1 TRELLIS - FRAMING PLAN
 1/4"=1'-0"

7 NOT USED

NOT FOR CONSTRUCTION



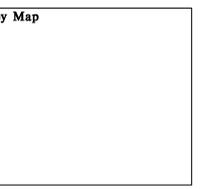


ALAMEDA POINT WATERFRONT PARK
 Alameda Point Block 5 Alameda, California



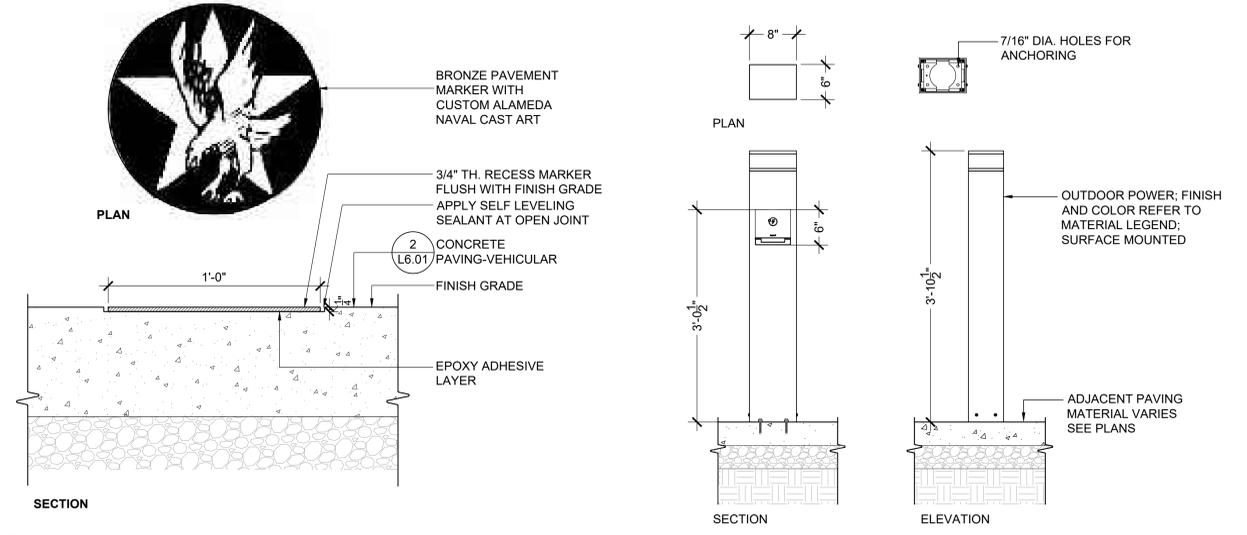
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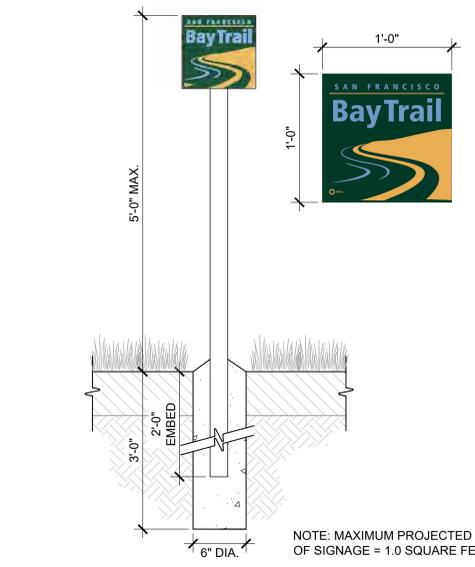
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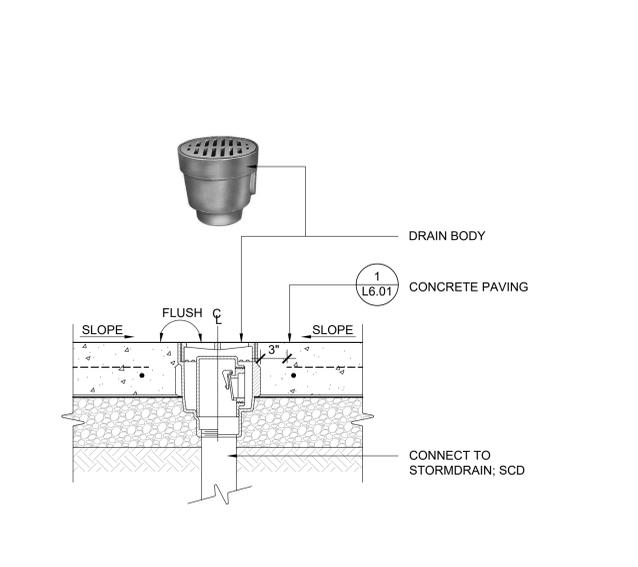


5 BRONZE PAVEMENT MARKER - BID ALTERNATE (REFERENCY ONLY)
 3" = 1'-0"

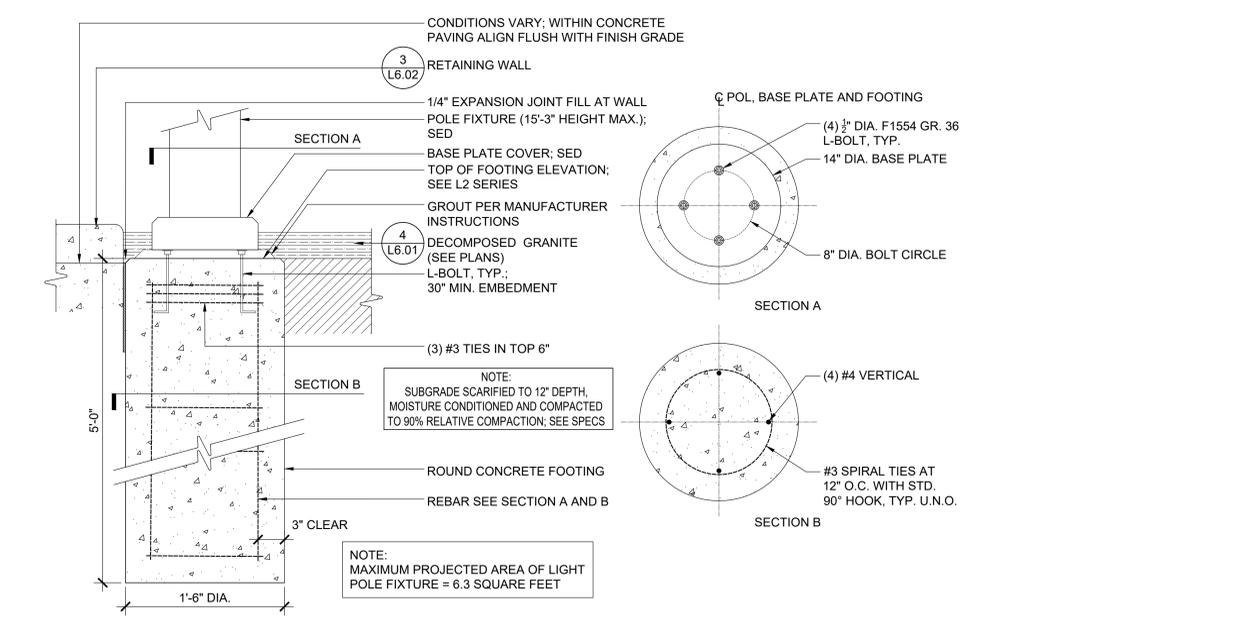
3 CHARGING STATION (A-16)
 1" = 1'-0"



4 BAY TRAIL SIGNAGE (BY OTHERS - REFERENCE ONLY)
 1 1/2" = 1'-0"



2 AREA DRAIN (D-12)
 1 1/2" = 1'-0"



1 LIGHT POLE FOOTING AND REINFORCEMENT (REFERENCE ONLY)
 1 1/2" = 1'-0"

NOT FOR CONSTRUCTION



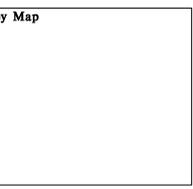
ALAMEDA POINT WATERFRONT PARK

Alameda Point Block 5 Alameda, California



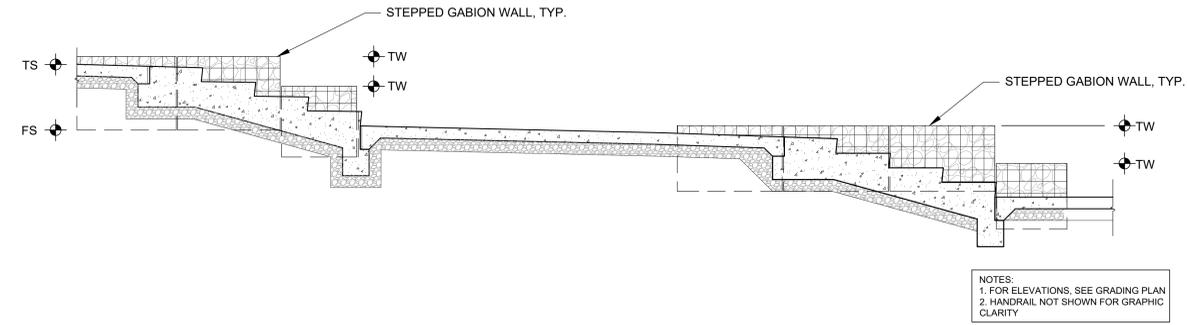
Date: February 13, 2020
 Project Number: 18dw285
 Drawn by: CK, SY, GY
 Checked by: AP, CH
 Scale: As Noted

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PERMIT	9/19/16
PERMIT	11/22/16
PRICING	1/30/20
PERMIT	2/13/20

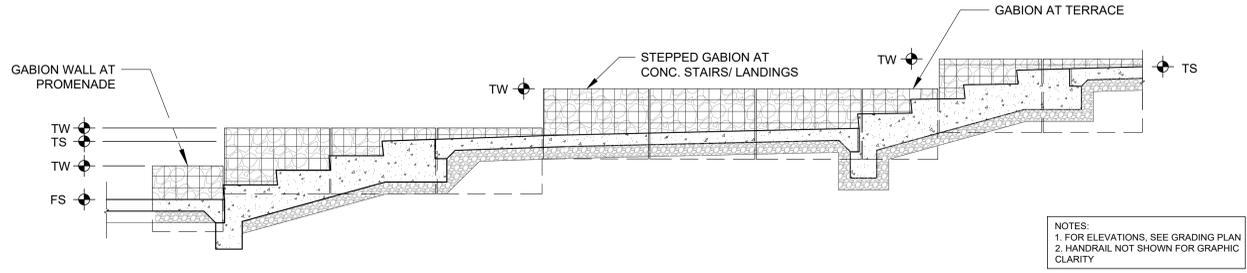


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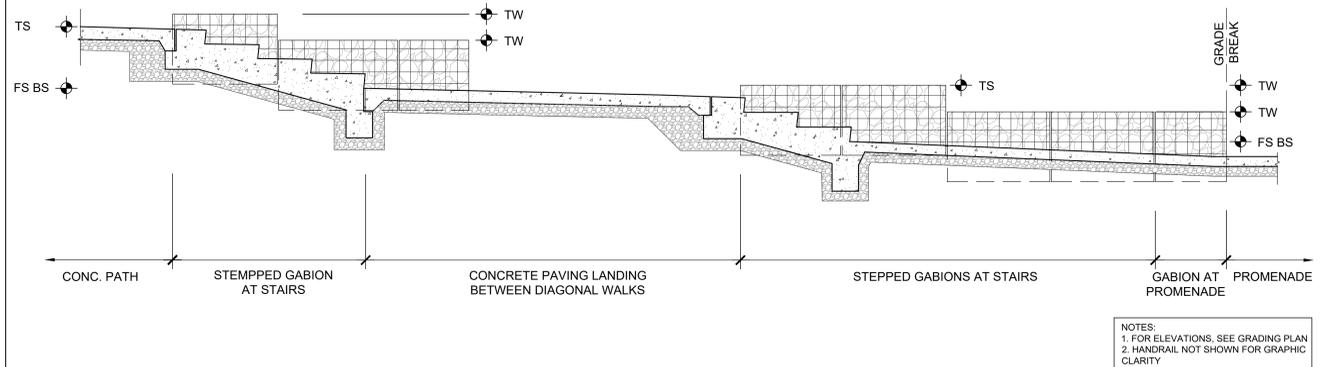
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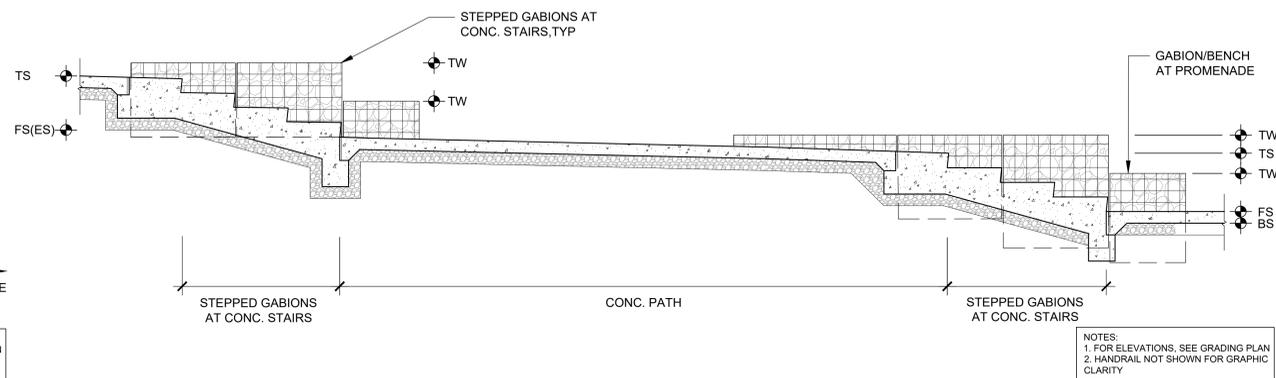
4 GABION SECTION 'D' AT STAIRS
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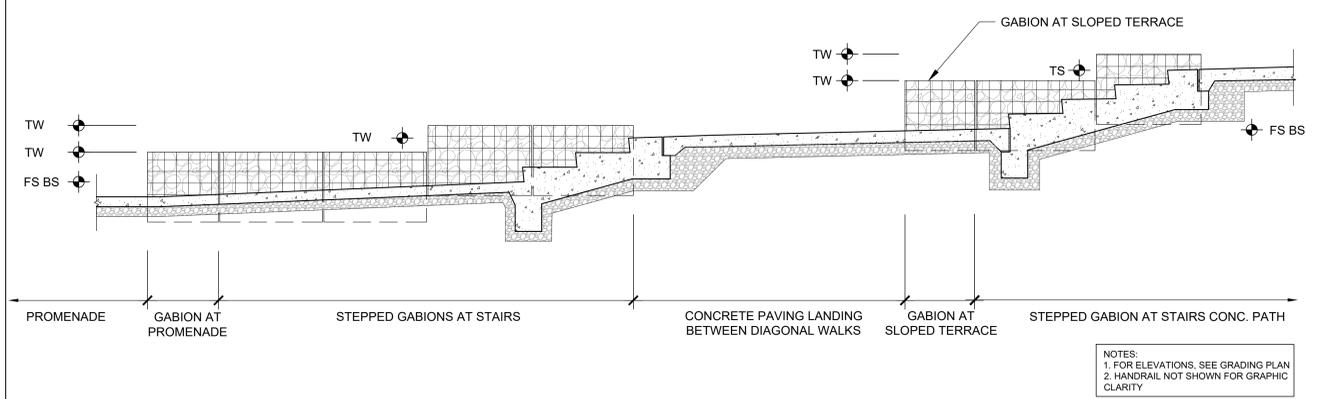
3 GABION SECTION 'C' AT STAIRS
1/2" = 1'-0"



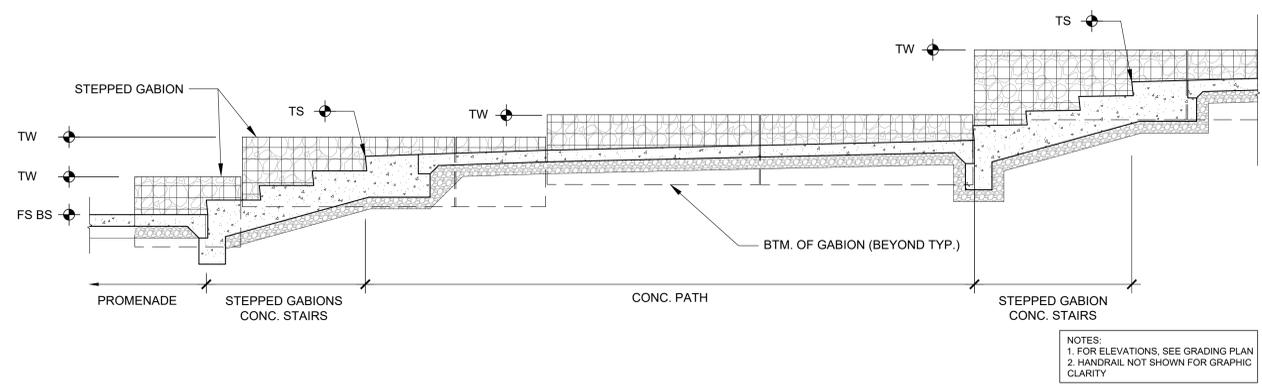
6 GABION SECTION 'F' AT STAIRS
1/2" = 1'-0"



2 GABION SECTION 'B' AT STAIRS
1/2" = 1'-0"



5 GABION SECTION 'E' AT STAIRS
1/2" = 1'-0"



1 GABION SECTION 'A' AT STAIRS
1/2" = 1'-0"

NOT FOR CONSTRUCTION

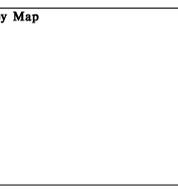
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 PLOTTED BY: MARIAN

ALAMEDA POINT
WATERFRONT PARK
 Alameda Point Block 5 Alameda, California



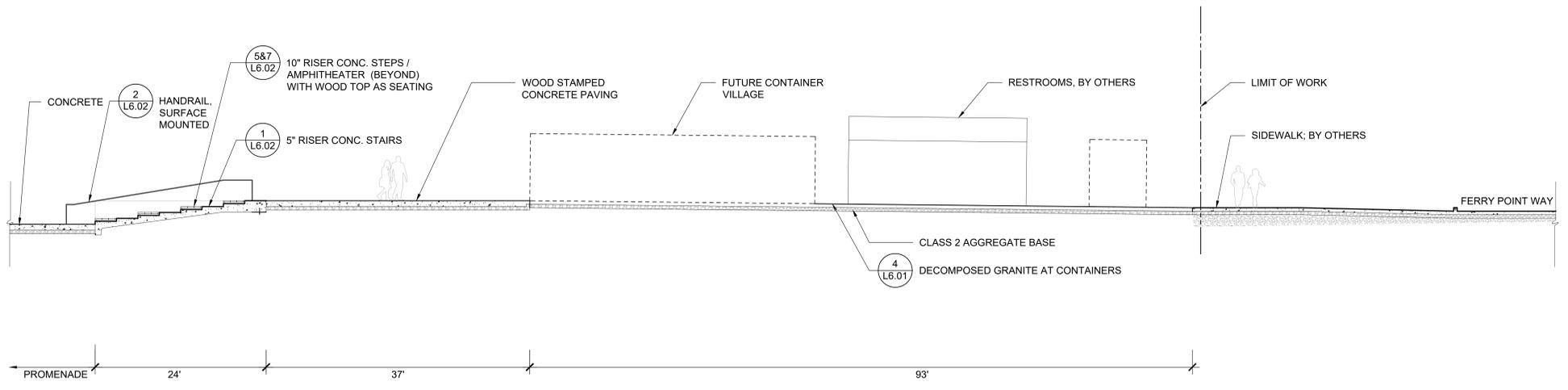
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 Project Number: 18dw285
 Drawn by: CK, SY, GY
 Checked by: AP, CH
 Scale: As Noted

PROJECT STATUS	
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PERMIT	2/13/20

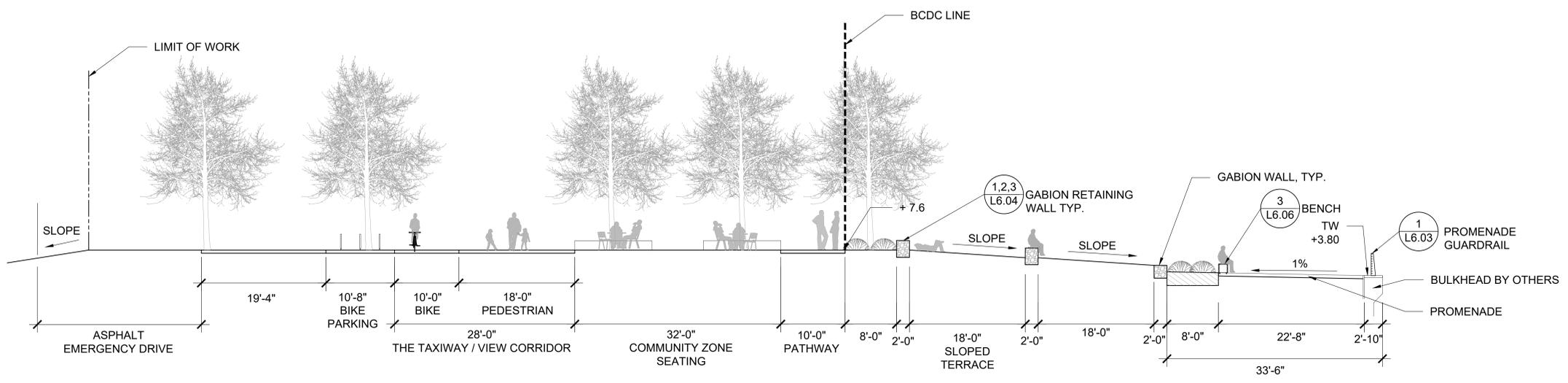


Sheet Title:
Site Sections

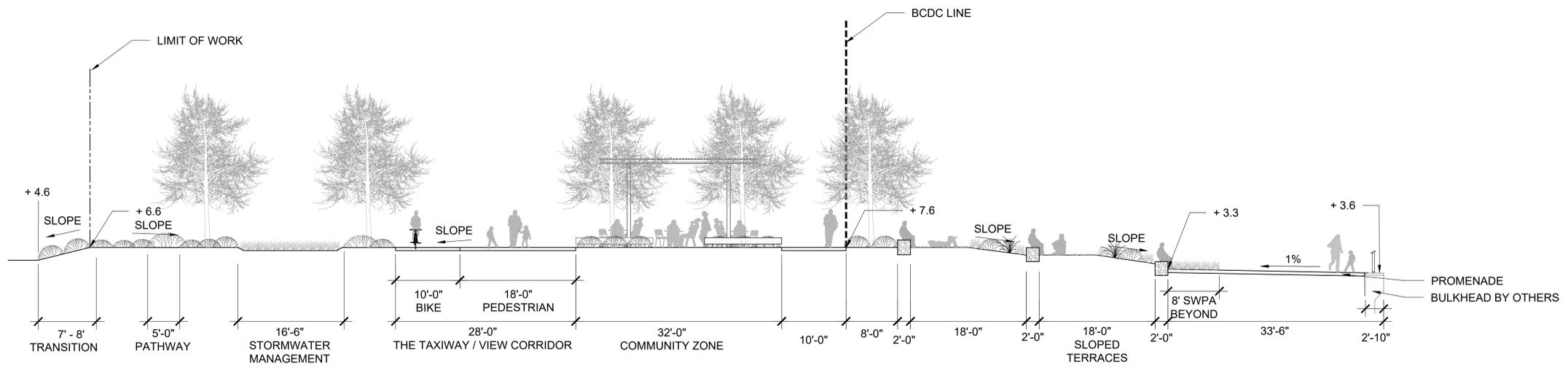
L7.01



3 SITE SECTION ELEVATION AT PAVILION
 1/8"=1'-0"



2 SITE CROSS SECTION
 1/8"=1'-0"



1 SITE SECTION THROUGH STORMWATER PLANTER
 1/8"=1'-0"

NOTE: FOR DETAILED GRADING INFORMATION REFER TO SHEET L3.01, L3.02, L3.03

NOT FOR CONSTRUCTION



**ALAMEDA POINT
WATERFRONT PARK**
Alameda Point Block 5 Alameda, California



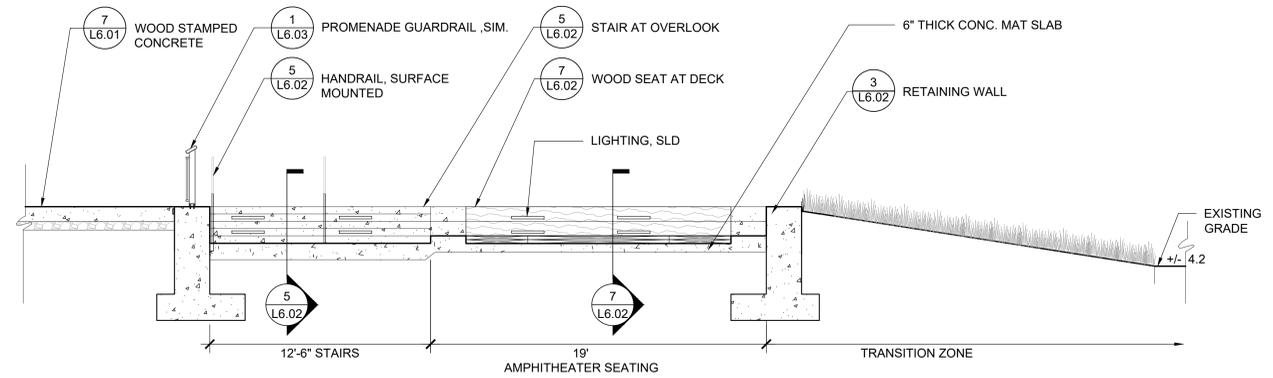
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Drawn by: SH
Checked by: AP, AD, GO
Scale: As Noted

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PERMIT	09/19/16
PERMIT	11/22/16

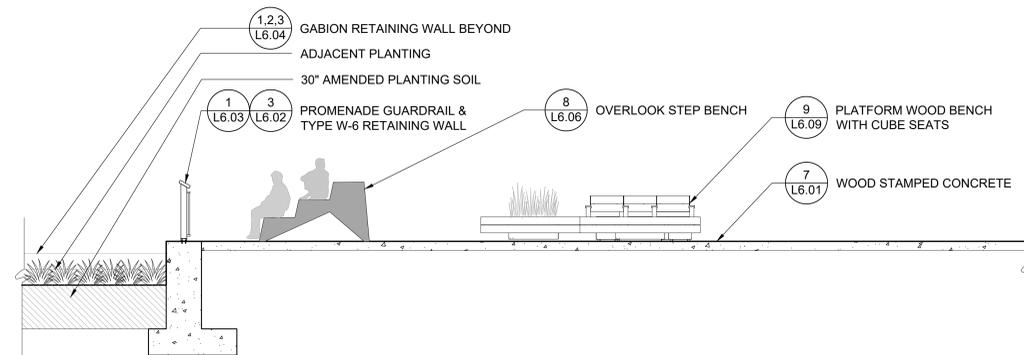
Key Map

Sheet Title:
Site Sections

L7.02



2 SECTION ELEVATION - AMPHITHEATER STAIRS
1/4"=1'-0"



1 SECTION ELEVATION - OVERLOOK
1/4"=1'-0"

NOT FOR CONSTRUCTION

Artist Resume and Images of Past Work

EDUCATION

- 1996 MFA Sculpture, School of Sculpture, Edinburgh College of Art, Heriot Watt University,
Edinburgh, Scotland
1982 BA Art, Yale University, New Haven, CT

SELECT PUBLIC COMMISSIONS

- 2020 Denver Greenway, Denver, CO (forthcoming) \$180,000
2019 Gazebo, Collyer Park, Longmont Public Art Commission \$30,000
2019 Memoria, Viestenz-Smith Park, Loveland Arts Council, Loveland, CO \$55,000
2017 Enspire, for Bryan Crough Memorial, Traverse City Arts Commission, Traverse City, MI \$50,000
2016 Sealte, Connective Corridor, Syracuse University and the City of Syracuse, NY (unrealized) \$130,000
2015 Quake, The Cambridge Arts Council, Cambridge, MA, \$45,000
2012 Concordia, Lexarts and Leadership Lexington, Downtown Arts Center, Lexington, KY \$74,000

SELECT PRIVATE COMMISSIONS

- 2019 Simon, Valley and Park, Toll Brothers, Reston, VA \$30,000
2018 Blake, private collection, Kensington, NH \$110,000
2017 Folly, private collection, Ghent, NY \$195,000
2015 Rays, private collection, Kensington, NH \$190,000
2015 Sawyer, private collection, Kensington, NH \$35,000
2015 Capital, Pike Motor Works, Wolff Company, Seattle, WA \$75,000
2014 Odin, Picker Interdisciplinary Science Institute, Colgate University, Hamilton, NY \$185,000
2008 Claverack, Berger Kaufman Residence, Columbia County, NY \$35,000
1989 Untitled, Crowley, Rye, NY \$12,000

SELECT PUBLIC INSTALLATIONS

- 2016 Louis, Artprize 8: Featured Public Projects, Calder Plaza, Grand Rapids, MI
Inflare, Breathing Lights: Community Arts Awards, Troy, NY
2012 - present Lincoln, DeCordova Museum and Sculpture Park, Lincoln, MA
2012 - present Layman, Lehman College, Bronx, NY
2010 Buttress, Kennedy Art Museum, Ohio University, Athens, OH
2008 Pamplona, for Baltimore Sculpture Project, Baltimore, MD
2007 Caz, Cazenovia College-Sculpture Court, Cazenovia, NY
2007 Pamplona, for Sarasota Season of Sculpture IV, Sarasota, FL
2006 Pamplona, for Public Art, Moving Site, Rockingham Arts and Music Project, Bellows Falls, VT
2006 Pamplona, for Public Art, Moving Site, The Lot, Artspace, New Haven, CT
2006 Pamplona, for Public Art, Moving Site, Café Pamplona and CAC Gallery, Cambridge Arts Council, Cambridge, MA
2006 Well, for Sculpture Space Inside Out, Hamilton College, Clinton, NY
2005 - present Picker, The Fields Sculpture Park, Art OMI International, Ghent, NY
2004 Picker, Dana Arts Center, Colgate University, Hamilton, NY
2003 Driggs, Mt. Holyoke College Art Museum, South Hadley, MA
2002 - present Europos, Europos Parkas, Vilnius, Lithuania
2001 Amherst Drawings, Amherst College, Amherst, MA
2000 - present Empresarial, Ciudad Empresial, Santiago, Chile
1989 - present Untitled, Cullen Sculpture Garden, Museum of Fine Arts, Houston

SELECT SOLO EXHIBITIONS

- 2014 DeWitt Godfrey: Drawings, Proposals, Plans, Models, Diagrams, Documents, Downtown Gallery, University of Tennessee, Knoxville, TN
2013 Drawings, Proposals, Plans, Diagrams – Works by DeWitt Godfrey, Rosenberg Gallery, Hofstra University, Hempstead, NY
2004 Picker, Black + White Gallery, Brooklyn, NY
2003 Driggs Redux, Eli Marsh Gallery, Fayerweather Hall, Amherst College, Amherst, MA
2002 DeWitt Godfrey, Black + White Gallery, Brooklyn, NY
1998 DeWitt Godfrey, Butler Gallery, Houston, TX
1998 DeWitt Godfrey: A Sculpture and A Drawing, Sculpture Center, NY
1997 DeWitt Godfrey: An Exhibition of Sculpture and Works on Paper, Butler Gallery, Houston, TX
1997 DeWitt Godfrey: A Sculpture and Two Drawings, Contemporary Arts Museum, Houston, TX

SELECT GROUP EXHIBITIONS

- 2019 *30 x 30: 30 Years of Public Art in Palm Springs x 30 New Ideas*, Palm Springs Art Museum, Palm Springs, CA
2018 *That Can Inform the Future of How*, Clifford Gallery, Colgate University, Hamilton, NY
2018 *New York Six: Studio Practice and Pedagogy*, Richard F. Rush Art Gallery, St. Lawrence University, Canton, NY
2016 *Studio Art Faculty Exhibition*, Clifford Gallery, Colgate University, Hamilton, NY
2013 *Gravity of Sculpture: Part II*, Dorsky Gallery, Long Island City, NY
2013 *Studio Art Faculty Exhibition*, Clifford Gallery, Colgate University, Hamilton, NY
2012 *Paper Space: Drawings by Sculptors*, Inman Gallery, Houston, TX
2012 *Space Invaders*, Lehman College Art Gallery, Bronx, NY
2011 *Sculpture Today: New Forces, New Forms*, Frederik Meijer Gardens and Sculpture Park, Grand Rapids, MI
2010 *Salon des Refuses - Sights Unseen*, Stuart Keeler, Public Art Network Conference, Baltimore, MD
2010 *The Other End of the Line*, Friends of the Highline, New York City

SELECT BIBLIOGRAPHY

- 2019 Downing, Rebecca. editor. *When through thy Valley: Colgate in 200 Images*. Colgate University: Hamilton, NY, 2018.
2018 Codaworx. "Balancing Acts: The Cellular Sculptures of DeWitt Godfrey" *Codaworx*, June 12, 2018.
<https://www.codaworx.com/news/freshest-news/balancing-acts-cellular-sculptures-dewitt-godfrey/>
2016 Kara, Hanif and Bosia, Daniel. "Design Engineering Refocused." *AD Smart Series*, Wiley, London, October 2016.
2016 Stryker, Mark. "Discovering the Sublime, Avoiding the Ridiculous at ArtPrize." *Detroit Free Press*, September 27, 2016.
<http://www.freep.com/story/entertainment/arts/2016/09/26/artprize-2016-review/91057992/>
2012 Villalonga, Yuneikys. "The Art of Invading Spaces." *Art Experience: New York City*.
<https://www.artexperiencenyc.com/on-the-arts-of-invading-spaces/>
2012 Brooks, Barbara. "Professor Does Some Heavy Lifting for Public Art." *Colgate Scene*.
<http://newsle.com/article/0/47205961/>
2012 Adams, Rachel. "From Houston: Paper Space." *Art Practical*, October 9, 2012.
http://www.artpractical.com/review/from_houston_paper_space/
2012 Lewis, Celeste. "Up on the Roof." *Business Lexington*. July 24, 2012.
<http://bizlex.com/2012/07/up-on-the-roof-2/>
2012 Brackney, Peter. "walkLEX: Dewitt Godfrey Work will Transform East Main Rooftop."
<http://www.kaintuckeean.com/2012/01/walklex-dewitt-godfrey-work-will.html>
2011 Naselli, Mara. "Relax: Art Doesn't Think You're Dumb." *The Rapidian*, September 27, 2011.
<http://therapidian.org/relax-art-doesn%E2%80%99t-think-you%E2%80%99re-dumb>
2009 Chabon, Matt. "Filling Downtown's Donut Hole." *The Architect's Newspaper*, September 30, 2009,
<https://archpaper.com/2009/09/filling-downtowns-donut-hole/>
2007 Costello, Kevin. "A Monumental Misconception." *Sarasota Herald Tribune*, November 18, 2007
<https://www.heraldtribune.com/news/20071118/a-monumental-misconception>
2007 Matthews-Berenson, Margaret. "Sculpture Space Celebrating 30 Years." *Sculpture Magazine*, vol. 26, no. 1, (January/February 2007).
2006 Baker, Alyson and Ilana Mestovic, editors. *Socrates Sculpture Park*. Yale University Press: New Haven, CT, 2006.
2006 "Goings on About Town, Art, Out of Town – The Fields at Art Omi." *The New Yorker*, August 21, 2006.
2006 Long, Robert. 2006. "Albee's Choice at Longhouse: When Art and Nature Conspire." *The East Hampton Star*, July 27, 2006.
2006 "Recent Projects – Public Art/Moving Site." *Public Art Review* (Spring/Summer 2006): 88.
2006 de Lima Greene, Alison. "DeWitt Godfrey." In *Isamu Noguchi: A Sculpture for Sculpture: The Lillie and Hugh Roy Cullen Sculpture Garden*. The Museum of Fine Arts Houston: Houston, TX, 2006.
2006 McQuaid, Kate. 2006. "A Moving Feast of Public Art." *Boston Globe*, Wednesday January 11, 2006.
2005 Heuer, Megan. "The Incredible Lightness of Steel." *Artnews* (Summer 2005): 224.

MEDIA

- 2017 "Enspire." YouTube video, 2:31. "Jason Hulet," July 10, 2019 . <https://www.youtube.com/watch?v=-Ii6eqTCbg>.
2014 "Professor DeWitt Godfrey's sculpture Odin fuses arts and sciences." YouTube video, 7:17. "Colgate University," December 23, 2014. <https://www.youtube.com/watch?v=Wp-oVldbyfA>.

COLLECTIONS

- | | | |
|----------------------------|-----------------------------------|--|
| Wolff Group, Seattle, WA | Europos Parkas, Vilnius Lithuania | Oracle Corporation, Los Angeles, CA |
| Texaco, Houston, TX | Southwestern Bell, St. Louis, MO | Chemical Bank, New York City |
| PaineWebber, New York City | Brooklyn Museum, Brooklyn, NY | Museum of Fine Arts, Houston, TX |
| | Estee Lauder Group, New York City | Runnymede Sculpture Park, San Francisco, CA |
| | | Century Development Corporation, Houston, TX |

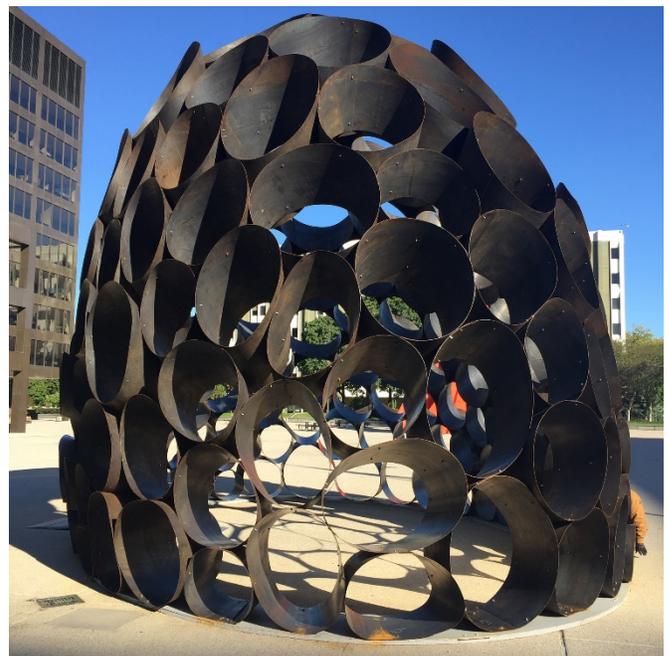
DeWitt Godfrey
Past Work



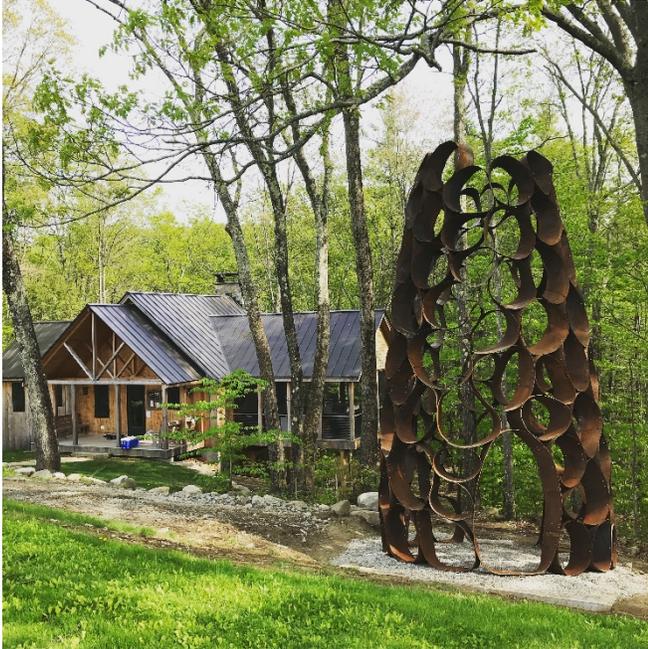
Simon, 2019



Louis, 2016



DeWitt Godfrey
Past Work



Blake, 2018



Gazebo, 2019

Artist Statement

My sculptures are grounded in responding to the environment of their physical site, the abstract geometry of the natural world, and community interaction. *Beken*, the work proposed for Alameda Point Waterfront Park, combines cutting edge digital design with custom craftsmanship. My process of packing and stacking conical steel forms, like other kinds of stacking and arranging – from beehives, to soap bubbles, to dry-stack stonewalls – gives rise to extraordinary beauty and complexity. My research in to the history of Alameda Point and the cultural and historic character of the community, as well as my 30 year history as a public artist, with large-scale commissions in both public and private sites in the United States, ensures that the cultural and historic character of the community is preserved and that the project meets the expectations for extremely high quality architectural and artistic design.

For Site A, at the Taxiway/Seaplane Lagoon Plaza I am proposing, one of my signature cellular forms with a solid wide circular base punctuated by two grand elliptical entrances, the sculpture tapering as it climbs, finishing approximately 32' off the plaza surface. The plaza sits at the literal and figurative center of the new park, perpendicular to the long axis of the taxiway; a grand stair leads down to and up from the expansive promenade lagoon-side. The new sculpture would mark this center, creating a hub around which park-goers could orient themselves; for visitors and residents embarking and returning by ferry, the sculpture would create a new landmark. The tapering form takes its cues from lighthouses, channel buoys and frontier guard towers but unlike these inaccessible stolid sentinels, its transparent structure would invite entry, exploration and interaction. From inside the sculpture, the world is reframed and refracted – seen anew – at night, accent lighting would bounce off the curves, surfaces, and volumes of the structure creating an ever-changing play of light, color, and shadow, a beacon at the heart of the park and guide to those on the bay.

My cellular organic forms, massive in scale, but visually light and airy, create a destination from afar and a sense of place from within, enriching Alameda's cultural identity and contributing to the economic growth of the area. My sculptures would provide a unique and timeless experiences – of wonder, delight, pride – for the surrounding neighborhood, communities, and visitors, helping to anchor the area's large and diverse creative sector. Furthermore, my sculpture will enhance the visual and aesthetic quality of Alameda, helping creating and foster community and public identity by bringing residents and visitors together. My weathering steel (CorTen) structures are both beautiful and durable, and require very little maintenance outside of periodic cleaning of dirt and debris from its surfaces. Maintained properly the sculpture will last 50 – 75 years. *Beken* while inviting interaction, was designed to discourage climbing; the two lowermost rows of rings are more than 7 feet in diameter. With proper "No Climbing" signage the City can be assured of their own liability protection and that the sculpture will be a safe, beautiful addition to the park.

Working in public spaces involves working intimately within social and political systems among a wide array of constituents: community members and leaders, public art professionals, government agencies and officials, business owners, engineers, suppliers, fabricators, contractors, and more. I regard these organizational ecosystems not unlike the architectural constraints against which my work takes form: as partners in the collaborative realization of these large-scale works. The inclusion of *Beken* works to foster economic development and tourism, revitalize urban areas, increase real property values, and improve the overall business

climate by creating a more desirable community within which to live and work by providing an important visual and physical anchor for the site, creating a space for cultural and community interaction, bonding and drawing new visitors to the development.

Maintenance Plan

Introduction

This manual serves as a guide to the regular maintenance and care of *Beken* under normally expected conditions and wear; this manual does not cover unexpected or extraordinary conditions or damage, in which case the owner or owner representative should contact the Artist or artist representative before undertaking any remedy or repair of sculpture. In addition, should the owner encounter unforeseen maintenance or care issues not anticipated in this manual, owner or owner representative should contact the Artist or artist representative before undertaking any remedy or repair.

Description

This manual references *Beken* by DeWitt Godfrey installed at Alameda Point Waterfront Park under direct contract with Alameda Point Partners and the City of Alameda and under the supervision of DeWitt Godfrey (Artist) The Sculpture is constructed of Weathering Steel (CorTen) sheet, fastened with stainless steel bolts, anchored to concrete foundation with stainless steel threaded rod and epoxy anchor system. (see appendix for detailed material descriptions and specifications). The overall structural stability of the foundation and sculpture provided by Engineer.

Construction and Installation

The construction methods utilized in *Beken* were developed over a 15-year period by the artist, in dozens of sculptures and installations, in widely varying locations, climates and conditions. The artist has found that when fabricated, installed and cared for properly the sculptures can be expected to perform as promised. With weathering steel alloys, it is important that water not be allowed to collect or pool on any surfaces; if the material can drain and dry, the corrosion resistant properties can be sustained. The artist has taken steps to mitigate water retention and corrosion

- The sculpture rests on plastic spacers, on top of concrete or foundation elements (pending final design and engineering)
- Individual elements are angled away from horizontal and shed water

Maintenance Plan

While the construction methods described above are designed to help prevent premature deterioration of the sculpture, without regular cleaning and maintenance they will be insufficient. To that end, here are the artist recommendations

- The surfaces of the sculpture should be kept free of dirt and debris; in particular the bottoms of the elements, space between bottom of elements and foundation and angular voids formed by the intersections of elements require diligent attention. Accumulated dirt and debris will hold moisture and promote premature corrosion
- At suitable intervals (every 6 months) the above surfaces should be swept or dry brushed to remove debris.
- At suitable interval (once per year) the sculpture should be pressure washed to clear any impacted materials and debris.
- These intervals are suggested, depending on local conditions the cleaning cycles may need to occur more or less frequently; consistent care will help prolong the life of the sculpture, deferred care may lead to premature deterioration.
- In the event of graffiti, non-destructive chemical paint removers should be the first course of action under supervision of qualified art restoration professionals. If these methods are not effective, the next step would be the use of nylon abrasive pads by hand or attached to powered sander or grinder. Surface discoloration or rust removal can be remediated using an oxidation solution (see appendix) sprayed onto affected surface.

Waterfront Park Public Art
DeWitt Godfrey – “Beken”
Update: 6/10/2020

Conservation and Fabrication

The artist has extensive experience fabricating artwork with the proposed materials and addressing maintenance and conservation issues raised by the City’s conservator. Following acceptance of final design by client and City of Alameda the artist and engineer will provide a complete set of construction drawings, including material, fastener and foundation specifications and details, these will be shared with City conservator for review; any reasonable suggestions, substitutions or additions (including drainage mitigation) based on that review can be incorporated into final drawings to be submitted for final permitting and permissions.

Appendix

Material Specifications

Steel

A606 and/or A588 Weathering Steel Alloy (Corten) varying thicknesses

Central Steel Service
2764 Welborn Street
PO Box 1506
Pelham, AL 35124

Fasteners

Cylinder construction and cylinder-to-cylinder attachment

316 SS Fully Threaded Hex Head Cap Screw, diameter and length vary; 316 stainless steel offers excellent corrosion resistance and may be mildly magnetic. Screws have a Class 2A thread fit, minimum Rockwell hardness of B70, and minimum tensile strength of 70,000 psi. Dimensions meet ASME B18.2.1. Screw length is measured from under the head.

316 Stainless Steel Nylon-insert Hex Locknut, diameter and height vary; the nylon insert provides vibration resistance and prevents loosening—without damaging mating threads.

Above from McMaster Carr; www.mcmaster.com

Elements to foundation

HIT-HY 200A Masonry Adhesive
HIT-Z-R 316 SS Anchor Rod (316 Stainless Steel)
Technical specifications <http://www.us.hilti.com/>

Weldments

Cor-Match™ 810-W is a gas-shielded, flux-cored electrode for ALL POSITION welding of weathering steels. Welder appeal is excellent with a spray transfer, thin slag, which removes easily

Cor-Match™ 8018-W is recommended for stick electrode welding on Corten and weathering steels. Cor-Match™ 8018-W features excellent mechanical properties and a close color match.

<https://www.centralsteelservice.com/products/cor-match/>

Patination

Metal surfaces cleaned and pressure washed with industrial cleaner/degreaser following assembly. Clean surface sprayed with a solution to accelerate oxidation

- 1 gal 35% hydrogen peroxide
- 5 gal water
- ½ gal white vinegar
- 1 oz salt

All surfaces are thoroughly rinsed following application of solution

Coatings

It is the artist recommendation that no coatings should be applied; this recommendation comes from the artist's own experience, conversations with sculptors and consultations with conservators (see Gallagher article below)

- Weathering steel alloys, over time, develop a robust, corrosion resistant surface through repeated cycles of wetting and drying and should not need further protection; any coating will significantly change the appearance of the material
- Once applied, coatings must themselves be maintained, all coatings will break down over time and require cleaning removal and recoating. Some coatings (epoxies, urethanes) adhere aggressively to the steel, and removing them can require destructive measures (sand blasting) which eats away the underlying steel. Even coatings that break down naturally (linseed oil and urethane mixtures) require removal before the sculpture can be recoated.
- If the owner determines that a coating is desirable or necessary, the artist recommends that the choice of coatings and its maintenance cycles be arrived at in consultation with an art conservator with the relevant experience; the artist can provide recommendations in this event.

Weathering Steel Sculpture by Dr. Patrick Gallagher

This is to provide some basis for conservators to use in considering possible treatments for the care of weathering steel sculpture. I would appreciate hearing from others of their experiences so I can use the information to enhance the content and value of this article. In the last half of this century weathering steel (COR-TEN(r)) has come into widespread use in sculpture. COR-TEN(r) is US Steel's trade name for a corrosion resistant low-alloy steel that forms a protective coating of rust (hydrated iron oxide) when exposed in many natural atmospheres. Because the appearance of the steel is due to natural processes, as an analogy to the weathering of natural materials such as wood, it is often called weathering steel. I'll use that term from here on in this note. The "weathering" characterization is a reminder that the material can change in appearance over time due to the environment, which should be kept in mind in appreciating and caring for works executed in the material. The rust layer on weathering steel becomes protective when the fine discrete crystallites of early rust recrystallize into a relatively intact barrier layer of rust. The formation of the protective layer requires alternating wetting and drying cycles; the wetting to generate the rust, and the drying

to allow it to recrystallize. If the steel is not allowed sufficient drying time, the resulting continual rusting will cause the partially crystallized outer layer of rust to be shed and will prevent a barrier film from forming. For some interesting reasons I'll not elaborate at this point, the appearance of weathering steel depends on the extent to which recrystallization has occurred and thus indicates the extent to which the barrier layer is formed. The early rust forms in discrete crystallites that are fine, red and diffusely reflecting, like hematite. The massive recrystallized layer is a shiny blue, approaching the blue-black of specular hematite. Thus portions of weathering steel that have seen different amounts of wetting and drying will have different degrees of recrystallized oxide and will have different appearances. Most weathering steel sculptures in most environments provide surfaces that see varied amounts of wetting and drying. Consequently these areas have varied amounts of recrystallized oxide and have different appearances. In general the skyward surfaces see more drying and are bluer and glossier while the ground-ward surfaces see more wetting by condensation, lack of drying, and runoff and so are redder and

flatter. Runoff of water from upper portions of a sculpture tend to produce long-lasting streaks or other patterns of redder oxide on lower portions. Similarly, in wetter climates the overall color of weathering steel sculptures will have generally have an overall redder cast relative to those exposed in drier climates. The appearance of weathering steel can also be affected by other factors. During recrystallization the rust will trap particulate matter on the surface. If this material is colored it will contribute to the appearance of the rust. For example, in dirty industrial atmospheres the rust on weathering steel can be almost black due to the incorporation of airborne dirt. Chemical cleaning treatments such as acids can convert the hydrated iron oxide to other iron compounds of different color or appearance. In atmospheres with significant content of sulfur oxides deposits of white to yellow ferrous sulfate may appear in the rust on weathering steel. In some climates organic growth such as moss may be present and affect the appearance of the rust. Discolored areas on a weathering steel sculpture could be due to any of the variety of factors described above, or excessive corrosion. The rust layer on weathering steel in many U.S. climates does not consume a significant amount of steel in its formation, so removal in most cases should not affect the strength of the work. However, in some cases of inappropriate design crevices or pockets will trap water and the continual presence of water leads to excessive corrosion evidenced by rust flaking or observable metal loss. These should be sealed or coated to provide protection, and may need reinforcement if there has been significant steel loss. In the case of discoloration of rust due to other causes, if the rust were to be removed without a change in some factor in the environment the rust would eventually return to the original discolored appearance. The use of a clear sealer, say a polyurethane varnish, over new or old rust will retard the normal weathering process, but it would certainly also change the appearance of the sculpture, and might itself require continual restorative treatment. I have had success in producing a rust layer on cleaned, previously rusted weathering steel with the use of a 5 to 10 percent solution of hydrochloric acid in water. Luckily the rust had acceptable appearance since the substrate was the walls of the entrance to the U.S. Steel Building in Pittsburgh, and I was working for U.S. Steel at the time. For weathering steel sculpture not exposed outdoors, the normal practice is to expose the work to the weather for some period of time to build up a rust layer, and then to bring it indoors. Varnishes are sometimes applied to alter the appearance of the rust, so a conservator should be aware of that possibility.

Web reference <http://www.greenisles.com/wssculpt.htm>

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Artwork Budget

Purpose	Cost	Notes
Design and Engineering	18,000	design services, engineering, architectural documents for permitting
Materials	20,500	steel, fasteners, staging, crating
Fabrication		
Laser Cutting	8,000	
Labor	27,000	
Transportation	14,000	shipping truck and driver
Infrastructure	26,000	foundation and lighting
Installation		
Rigging & Equipment Rental	15,500	
Installation Labor/Lodging	6,000	
Administrative	5,000	insurance, signage
Artist Fee	40,000	
Contingency	20,000	
TOTAL	200,000	