

**GENERAL NOTES**

- All work to be performed shall conform to all applicable codes and ordinances of governmental agencies having jurisdiction over the project.
- Protect all existing utilities, improvements and structures and restore to new condition at no additional cost to the City if damaged during the course of work.
- Coordinate all work to prevent conflicts between trades and report conflicts, or incongruities between new improvements and/or existing facilities to the City Representative immediately. The contractor is responsible for the coordination and installation of all plumbing and electrical items to be installed as part of this work.
- Clear and remove all organic matter, debris and rubbish As shown on Demo Drawings. Contractor shall dispose of said material in a legal manner as his property.

**DEMOLITION NOTES**

- Protect all site elements designated to remain.
- All material shall be disposed of in a legal manner as Contractor's property.
- All demolition work within drip line of existing trees to remain shall be done by hand. Cleanly cut any roots larger than one inch diameter. Do not tear roots.
- Provide protection and regular irrigation water for existing plant material to remain for the entire duration of the project.
- Provide construction fencing throughout construction period.

**LAYOUT NOTES**

- Verify all dimensions in the field prior to beginning construction.
  - Written dimensions supersede scaled dimensions.
- All dimensions shall be measured horizontally.
- Verify locations and elevations of utility vaults and other covers and report any conflicts or discrepancies to the City Representative.
  - Place expansion joints at 15' o.c. along conc. curbs and walls, and as indicated on plans. Joints shall be 3/8" pre-molded asphaltic fiber material.

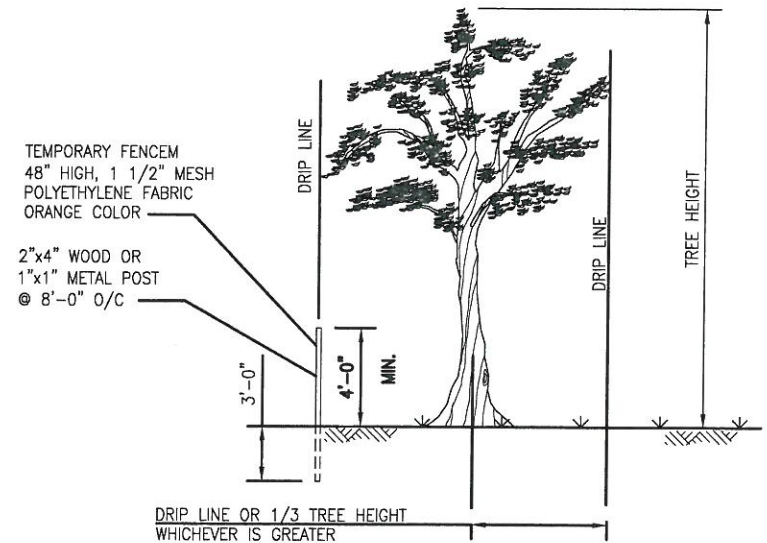
**GRADING NOTES**

- Verify all grades in the field before proceeding with work, including existing improvements; and locations and elevations of catch basins and area drains.
- Existing grades shown are approximate and shall be field verified. All discrepancies shall be reported to the Engineer immediately.
- The Contractor shall be responsible for positive surface drainage in all paving and planting areas. All ground surfaces shall be finished to a smooth and continuous grade, draining properly and free of standing water.
- Provide a smooth transition between existing and new grades in planting areas. Where new pavement abuts existing pavement, finish grades shall be flush unless otherwise noted. Ease top and toe of all slopes to provide smooth transition between ground planes.
- The City Representative reserves the right to make adjustments in the finished grades as the work progresses.
- Elevations are based on City and County of San Francisco datum, unless otherwise indicated.

**ABBREVIATIONS**

AC	ASPHALTIC CONCRETE	STL	STEEL
BC	BOTTOM OF CURB	TC	TOP OF CURB
BR	BOTTOM OF RAMP	TF	TOP OF FENCE
BS	BOTTOM OF STEP	TP	TOP OF PIPE
BW	BOTTOM OF WALL	TS	TOP OF STEP
CB	CATCH BASIN	TR	TOP OF RAMP
CCSF	CITY & COUNTY OF SAN FRANCISCO	TW	TOP OF WALL
		TYP	TYPICAL
CJ	CONSTRUCTION JOINT	UNLESS OTHERWISE NOTED	UNLESS OTHERWISE NOTED
CL	CHAIN LINK	VCP	VITRIFIED CLAY PIPE
CL.	CLEAR	VF	VERIFY IN FIELD
CLR.	CLEAR	W.	WEST
CO	CLEANOUT	W/	WITH
CONC.	CONCRETE	WWM	WELDED WIRE MESH
CONT.	CONTINUOUS	XFMR	TRANSFORMER
DEG	DEGREE	#	NUMBER
DIA.	DIAMETER		
DWG	DRAWING		
E	EAST		
(E)	EXISTING		
EA	EACH		
EJ	EXPANSION JOINT		
EQ	EQUAL		
FG	FINISHED GRADE		
FIN	FINISHED		
FS	FINISH SURFACE		
GAL	GALLON		
GALV	GALVANIZED		
H	HIGH		
HORIZ	HORIZONTAL		
HDPE	HIGH DENSITY POLYETHYLENE PIPE		
HP	HIGH POINT		
HPS	HIGH POINT OF SWALE		
HSS	HOLLOW STRUCTURAL STEEL		
IN	INCH		
IE	INVERT ELEVATION		
LP	LOW POINT		
MAX	MAXIMUM		
MFR	MANUFACTURER		
MIN	MINIMUM		
N	NORTH		
(N)	NEW		
NTS	NOT TO SCALE		
O.C.	ON CENTER		
O.D.	OUTSIDE DIAMETER		
PA	PLANTED AREA		
PERF.	PERFORATED		
QC	QUICK COUPLER		
QTY	QUANTITY		
R	RADIUS		
RE	RIM ELEVATION		
REBAR	REINFORCING BAR		
S.A.D.	SEE ARCHITECTURAL DWGS		
S.C.D.	SEE CIVIL DWGS		
S.E.D.	SEE ELECTRICAL DWGS		
S.G.E.D.	SEE GEOTECHNIC ENG. DWGS		
S.M.D.	SEE MECHANICAL DWGS		
S.S.D.	SEE STRUCTURAL DWGS		
SCH	SCHEDULE		
SEG	SEGMENTS		
SF	SQUARE FEET		
SIM	SIMILAR		
SJ	SCORE JOINT		
SPECS	SPECIFICATION(S)		
SSTL	STAINLESS STEEL		
SSDPWSF	STANDARD SPECIFICATIONS OF DEPARTMENT OF PUBLIC WORKS OF SAN FRANCISCO		

**TREE PROTECTION**



**TYPICAL EXISTING TREE PROTECTION**  
NO SCALE

**NOTES:**

- PROTECT ALL EXISTING TREES WHOSE DRIP LINE LIES WITHIN 25 FEET OF EXCAVATION, TRENCHING, GRADING, OR PATHWAY WORK, AGAINST INJURY OR DAMAGE FROM CONSTRUCTION OPERATIONS.
- SEE SPECIFICATION 01560 "PROTECTION OF TREES" FOR OTHER REQUIREMENTS.
- PROTECT TREES PRIOR TO COMMENCING WORK BY ERECTING A TEMPORARY SAFETY FENCE ON SIDE(S) ADJACENT TO CONSTRUCTION OR AS INDICATED ON PLANS.
- EXCEPT WHEN ON ASPHALT PAVEMENT, NO VEHICLES OR MECHANICAL EQUIPMENT LARGER THAN A DITCHWITCH OR BOBCAT CLASS MACHINE ARE PERMITTED ANY CLOSER TO A TREE THAN 1/3 OF TREE HEIGHT OR TREE DRIP LINE, WHICHEVER DISTANCE IS GREATER. SHOULD VEHICLES OR EQUIPMENT (OTHER THAN MECHANICAL TRENCHING) BE NECESSARY WITHIN THIS PROXIMITY OF A TREE, A 4 INCH DEEP LAYER OF APPROVED BARK MULCH SHALL BE APPLIED OVER THE AREA TO BE USED BY SUCH VEHICLES OR EQUIPMENT.
- ROOTS 2 INCHES DIAMETER AND LARGER SHALL BE HAND EXCAVATED AND LEFT INTACT. SMALLER ROOTS THAT REQUIRE CUTTING SHALL BE CUT CLEANLY AND OBLIQUELY WITH CUT SURFACES FACING DOWNWARD, AND KEPT CONTINUOUSLY MOIST UNTIL BACKFILL IS REPLACED. DO NOT APPLY PRUNING SEALS TO CUT END OF ROOT.
- DAMAGED TREES, INCLUDING WOUNDS TO BRANCHES AND ROOTS, SHALL BE PROMPTLY REPAIRED. FOR TREE ROOTS 2 INCHES DIAMETER AND LARGER, CONTACT THE CITY REPRESENTATIVE PRIOR TO CUTTING.

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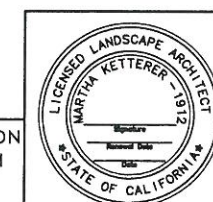
**CONTRACT NO. WD-2668**

CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
INFRASTRUCTURE DIVISION  
ENGINEERING MANAGEMENT BUREAU

REGIONAL GROUNDWATER  
STORAGE AND RECOVERY

LANDSCAPE COVER SHEET

CHECKED / APPROVED	DRAWN	DF	SCALE AS SHOWN
DESIGN MANAGER	DESIGNED		DATE 11/2013
APPROVED	APPROVED		
MANAGER, ENGINEERING MANAGEMENT BUREAU	MANAGER, WATER SUPPLY AND TREATMENT DIVISION		
SHEET	PLAN NO.	REVISION NO.	REVISION NO.
- OF -	L-0.0	E-	0



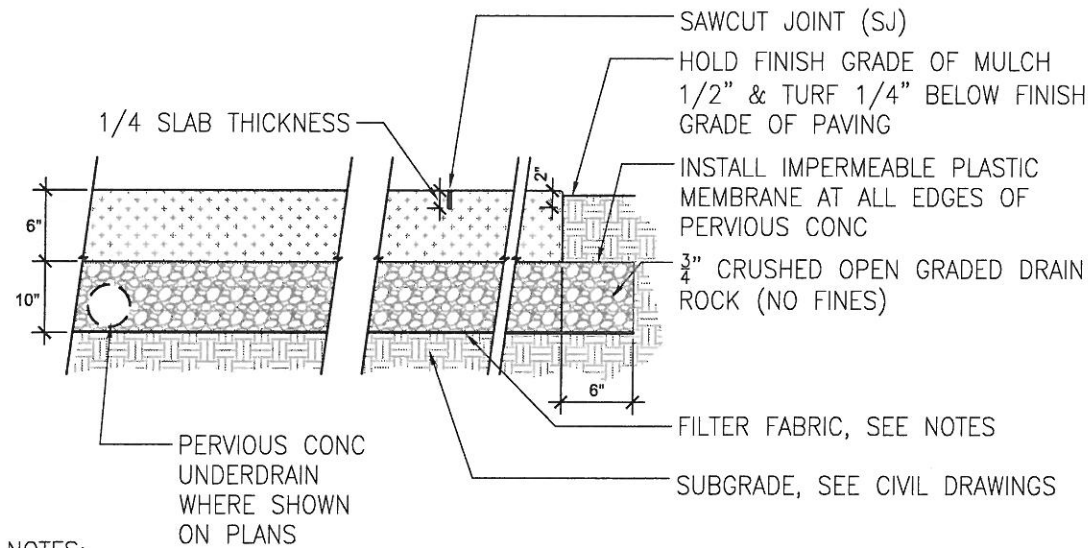
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ELEVATION DATUM

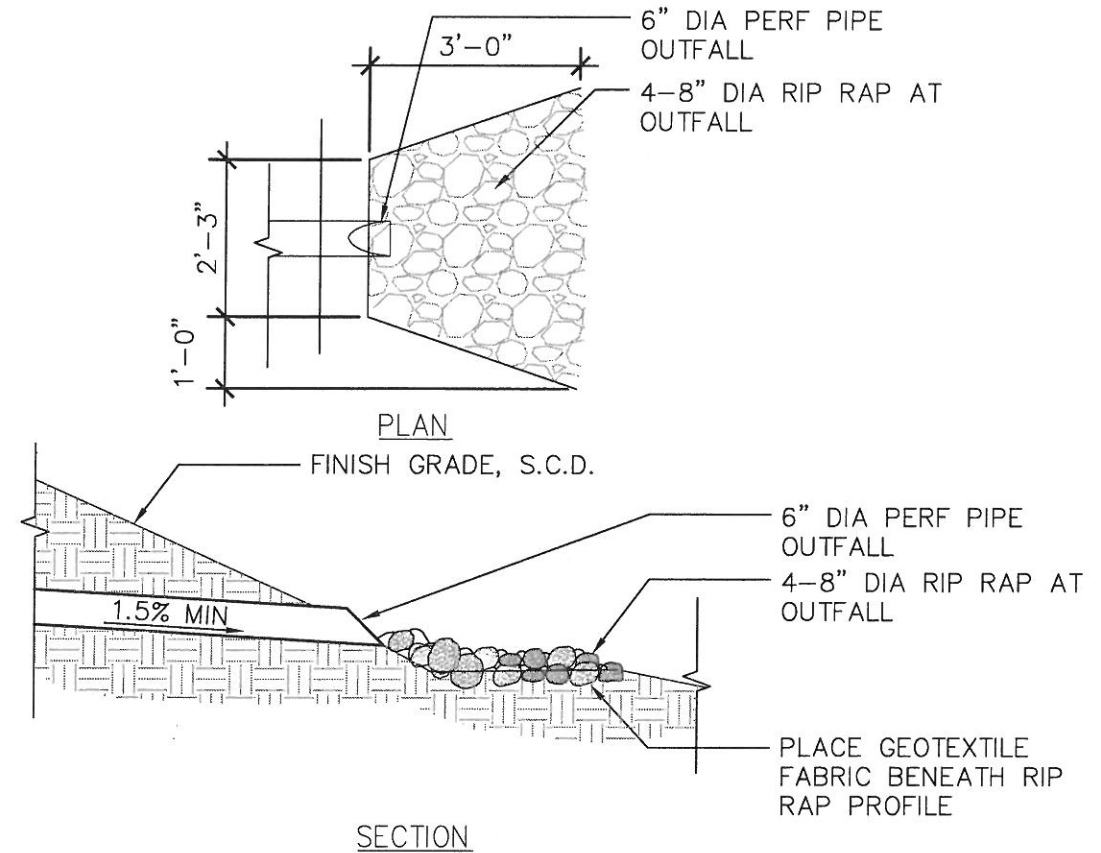
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YELLOW 0.20MM  
GREEN 0.25MM  
CYAN 0.40MM  
BLUE 0.50MM  
MAGENTA 0.20MM  
WHITE 0.35MM  
GRAY 0.15MM  
9 0.15MM  
10 1.00MM  
100 0.50MM  
210 0.50MM



**NOTES:**

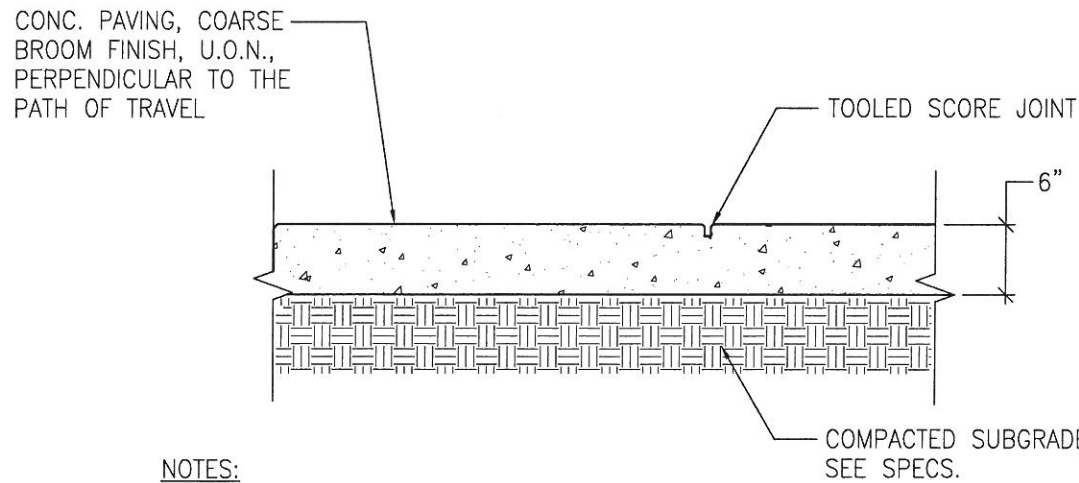
1. SCARIFY ORGANIC MATERIAL (3" MIN), THEN ROLL TO IDENTIFY AND ELIMINATE ANY WET, SOFT, OR PUDDLING AREAS.
2. A NON-WOVEN PROPYLENE GEOTEXTILE FILTER FABRIC SHALL SEPERATE THE AGGREGATE AND THE SUBGRADE. FABRIC (MIRAFI 140 NC OR EQUAL) SHALL BE INERT TO BIOLOGICAL DEGREDATION AND CHEMICAL, ALKALI/ACID RESISTANT.



**PERVIOUS CONCRETE PAVING  
VEHICULAR**

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

1



**NOTES:**

1. PLACE EXPANSION JOINTS WHERE PAVING ABUTS ALL VERTICAL SURFACES.
2. PAVING COLOR, FINISH, AND INSTALLATION TO BE PER CCSF STD CONCRETE PLANS AND DETAILS.

**CONCRETE PAVING**

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

3

**RIP RAP DISSIPATOR**

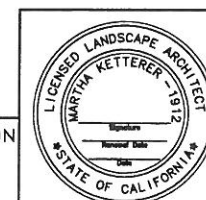
SCALE: 1 1/2"=1'-0"

2

PLOT: EXTENTS  
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22,34  
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YELLOW 0.20MM  
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CYAN 0.40MM  
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GRAY 0.15MM  
9 0.15MM  
10 1.00MM  
100 0.50MM  
210 0.50MM

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ELEVATION  
DATUM



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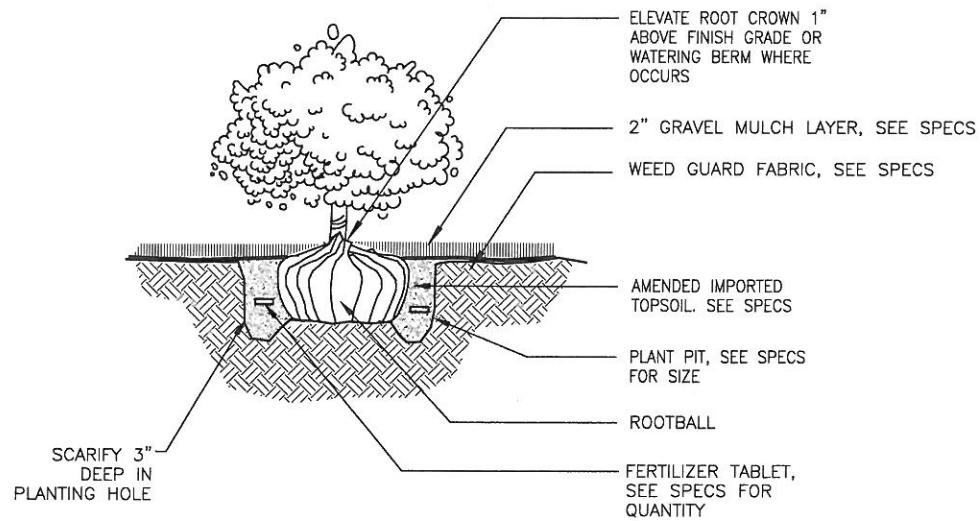
**CONTRACT NO. WD-2668**

CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
INFRASTRUCTURE DIVISION  
ENGINEERING MANAGEMENT BUREAU

REGIONAL GROUNDWATER  
STORAGE AND RECOVERY

LANDSCAPE DETAILS

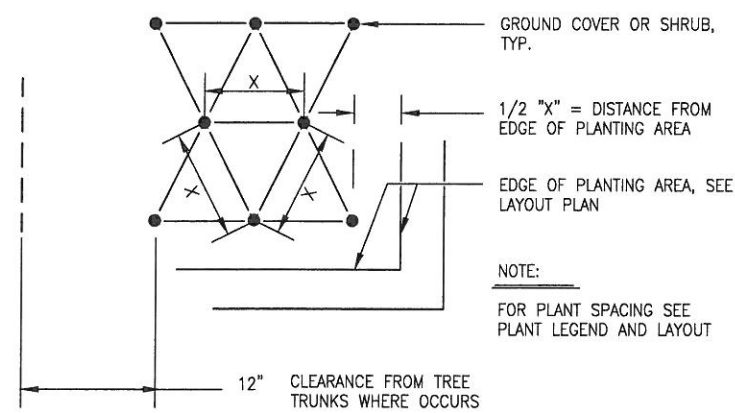
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APPROVED <td></td> <td></td> <td>DATE 11/2013</td>			DATE 11/2013
MANAGER, ENGINEERING MANAGEMENT BUREAU	PLAN NO.	DRAWING NO.	REVISION NO.
		E-22768	0



### SHRUB PLANTING

NOT TO SCALE

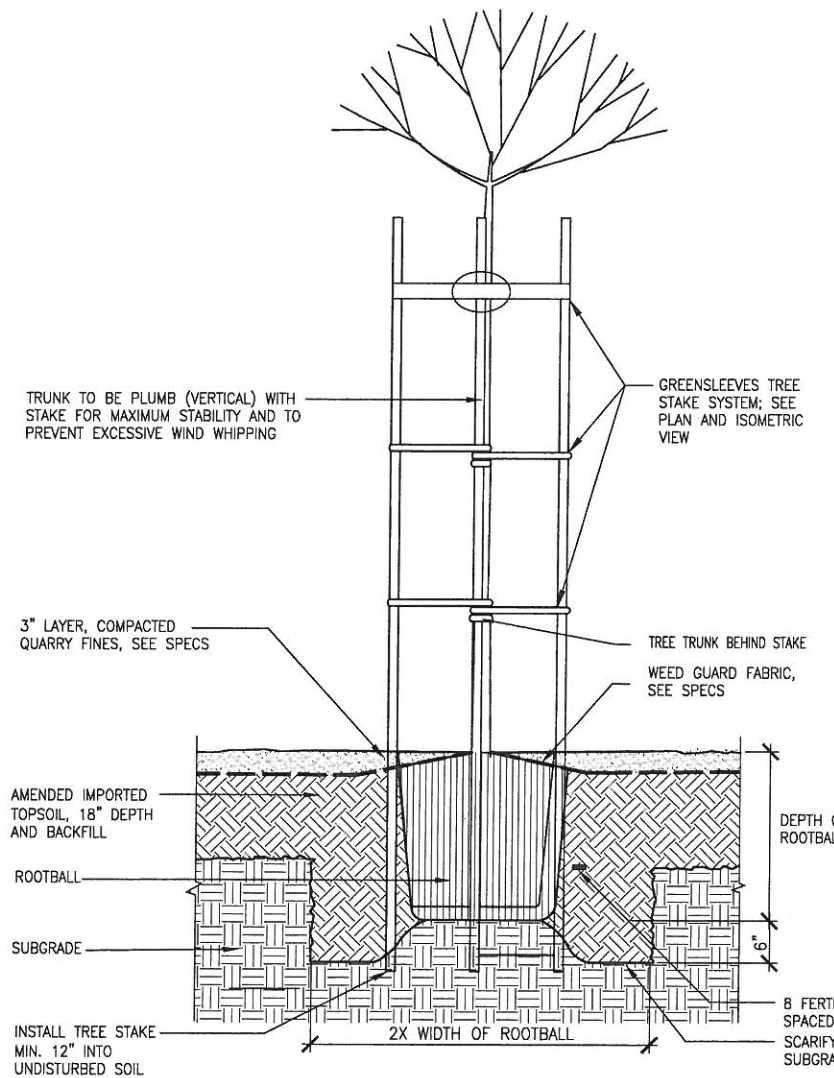
1



### TRIANGULAR SPACING

NO SCALE

2



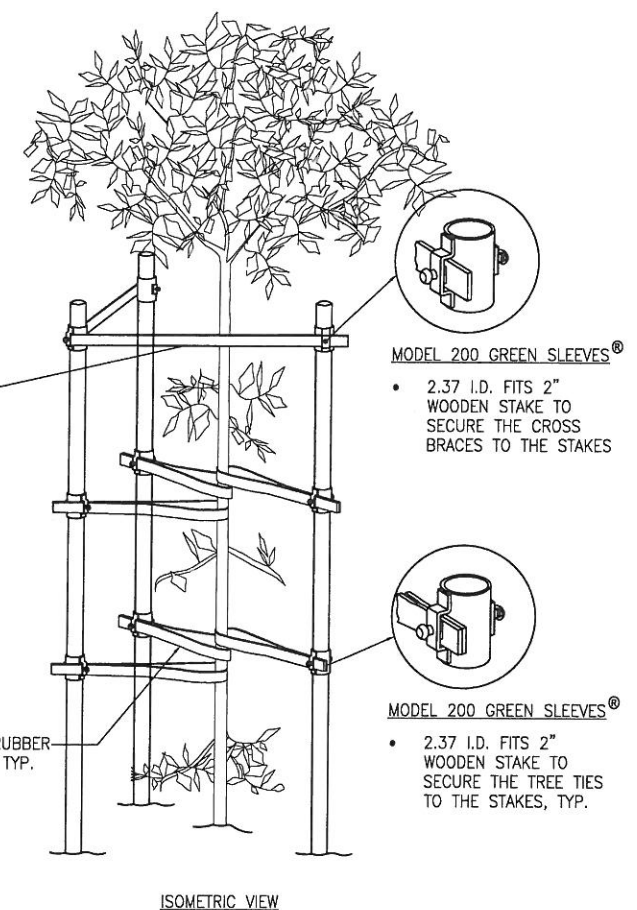
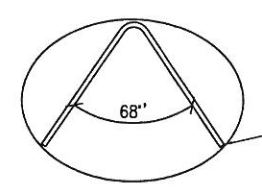
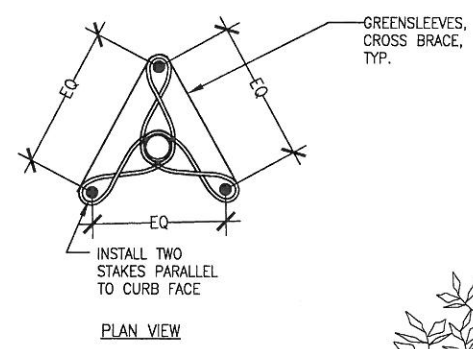
NOTE:

1. TREE STAKE TO BE LOCATED ON PREVAILING WIND SIDE.
2. TREES SHALL BE PRUNED UNDER THE DIRECTION OF ENGINEER.
3. ALL TREES TO RECEIVE COMPACTED QUARRY FINES AND WEED GUARD FABRIC AND BE CENTERED WITHIN 3'X4' PLANTING PIT.
4. STAKES TO BE PAINTED, COLOR: BLACK.
5. BRACE SLEEVES, CROSS BRACE, TIES SLEEVES AND STRAPS TO BE BLACK IN COLOR.

### TREE PLANTING DETAIL

SCALE : N.T.S.

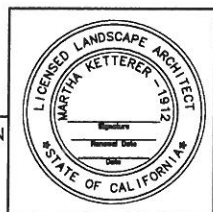
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PLOT: EXTENTS  
SCALE: 1:1  
BORDER:  
22,34  
COLOR: No.  
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YELLOW 0.20MM  
GREEN 0.25MM  
CYAN 0.40MM  
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MAGENTA 0.20MM  
WHITE 0.35MM  
GRAY 0.15MM  
9 0.15MM  
10 1.00MM  
100 0.50MM  
210 0.50MM

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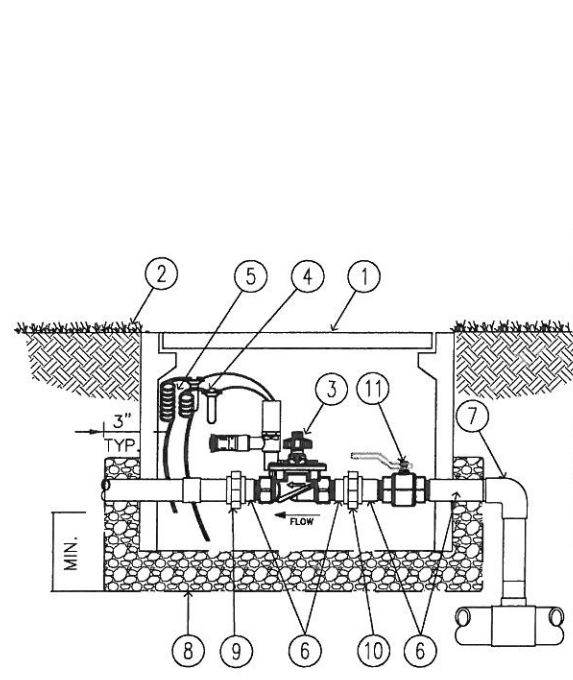
ELEVATION DATUM



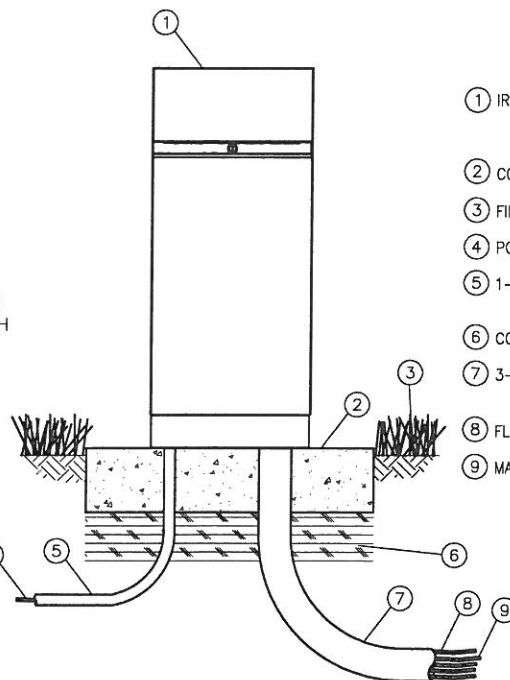
100% SUBMITTAL

NO.	DATE	DESCRIPTION	BY	APPR'D
REVISIONS				

<b>CONTRACT NO. WD-2668</b>			
CITY AND COUNTY OF SAN FRANCISCO			
<b>PUBLIC UTILITIES COMMISSION</b>			
INFRASTRUCTURE DIVISION			
ENGINEERING MANAGEMENT BUREAU			
REGIONAL GROUNDWATER STORAGE AND RECOVERY			
PLANTING DETAILS			
CHECKED / APPROVED	DRAWN	DF	SCALE AS SHOWN
SECTION MANAGER	DESIGNED	DATE	11/2013
APPROVED	APPROVED		
MANAGER, ENGINEERING MANAGEMENT BUREAU	MANAGER, WATER SUPPLY AND TREATMENT DIVISION	PLAN NO.	REVISION NO.
SHEET	NO. OF SHEETS	L-0.2	E-0



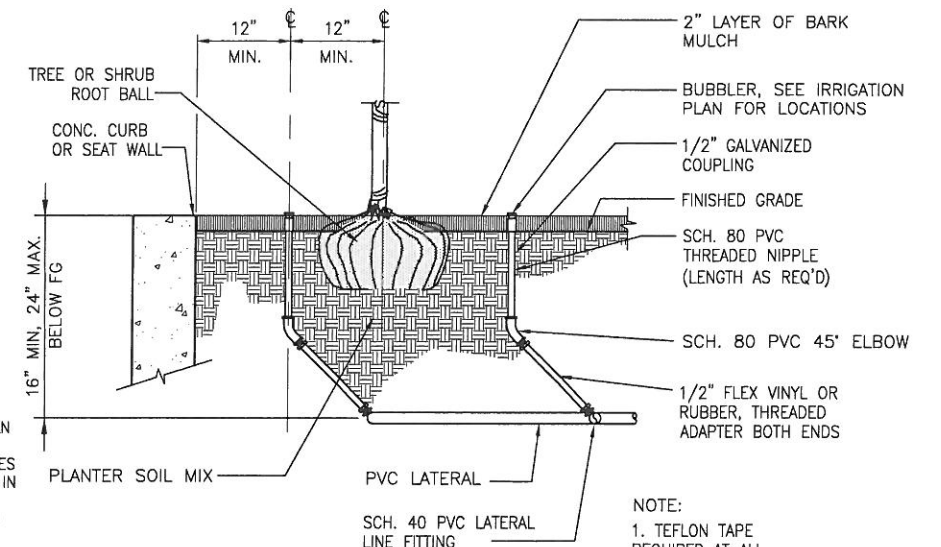
- ① VALVE BOX, SEE SPECS
- ② FINISH GRADE
- ③ REMOTE CONTROL VALVE, HUNTER MODEL IBV, ACCU-SYNC-ADJ WITH FILTER SENTRY
- ④ WATERPROOF CONNECTORS (2)
- ⑤ 18-24" COILED WIRE
- ⑥ BRASS T.O.E. NIPPLE
- ⑦ MAINLINE PIPE AND FITTINGS
- ⑧ 3" MINUS WASHED GRAVEL, W/ 19 GAUGE, GALV. WIRE MESH SURROUND.
- ⑨ BRASS SLIP UNIONS
- ⑩ BRASS BALL VALVE, LINE SIZED



- ① IRRIGATION CONTROLLER: CONTROLLER MOUNTED IN SSE HEAVY DUTY STAINLESS STEEL ENCLOSURE, SEE IRRIGATION LEGEND.
- ② CONCRETE PAD: 6-INCH MINIMUM THICKNESS. PAD 18"WX16"D
- ③ FINISH GRADE
- ④ POWER SUPPLY WIRE
- ⑤ 1-INCH SCH 40 PVC CONDUIT, FITTINGS AND SWEEP ELL FOR POWER SUPPLY
- ⑥ COMPACTED SUBGRADE
- ⑦ 3-INCH SCH 40 PVC CONDUIT, FITTINGS AND SWEEP ELL FOR STATION WIRES
- ⑧ FLOW SENSOR WIRE (PE 39, 89 OR 54) TO FLOW SENSOR
- ⑨ MASTER VALVE AND REMOTE CONTROL VALVE WIRES

NOTES:

1. FOR EASE OF INSTALLATION INTO A CONTROLLER WITH MORE THAN 28 STATIONS, INSTALL A JUNCTION BOX AT THE BASE OF CONTROLLER AND TRANSITION LARGER VALVE AND COMMON WIRES FROM FIELD TO 18 AWG MULTI CONDUCTOR WIRE TO BE USED IN CONTROLLER.
2. PROVIDE PROPER GROUNDING COMPONENTS TO ACHIEVE GROUND RESISTANCE OF 10 OHMS OR LESS.



NOTE:  
1. TEFLON TAPE REQUIRED AT ALL JOINTS.

### CONTROL VALVE W/ ISO. GATE VALVE ①

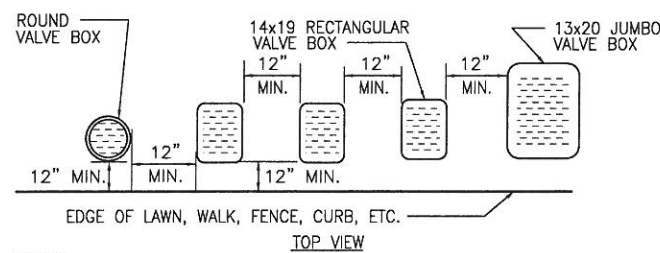
SCALE : NTS

### PEDESTAL MOUNT CONTROLLER ENCLOSURE ②

NOT TO SCALE

### BUBBLER ③

SCALE : 1"=1'-0"

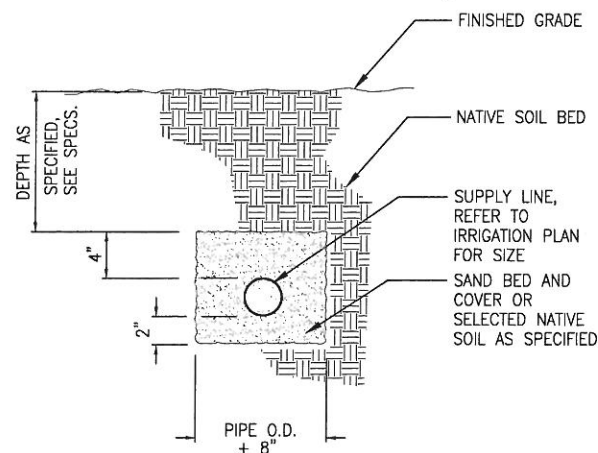


NOTES:

1. CENTER BOX OVER VALVE TO FACILITATE SERVICING VALVE.
2. SET BOXES 1" ABOVE FINISH GRADE OR MULCH COVER IN GROUND COVER/SHRUB AREA AND FLUSH WITH FINISH GRADE IN TURF AREA.
3. SET VALVE BOX ASSEMBLY IN GROUND COVER/SHRUB AREA WHERE POSSIBLE. INSTALL IN LAWN AREA ONLY IF GROUND COVER/SHRUB AREA DOES NOT EXIST ADJACENT TO LAWN.
4. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE.
5. AVOID HEAVILY COMPACTING SOIL AROUND VALVE BOX EDGES TO PREVENT COLLAPSE AND DEFORMATION OF VALVE BOX SIDES.
6. VALVE BOXES SHALL HAVE VANDAL RESISTANT, LOCKABLE OR BOLT DOWN LIDS, SEE SPECS.

### VALVE BOX INSTALLATION DETAIL ④

NOT TO SCALE

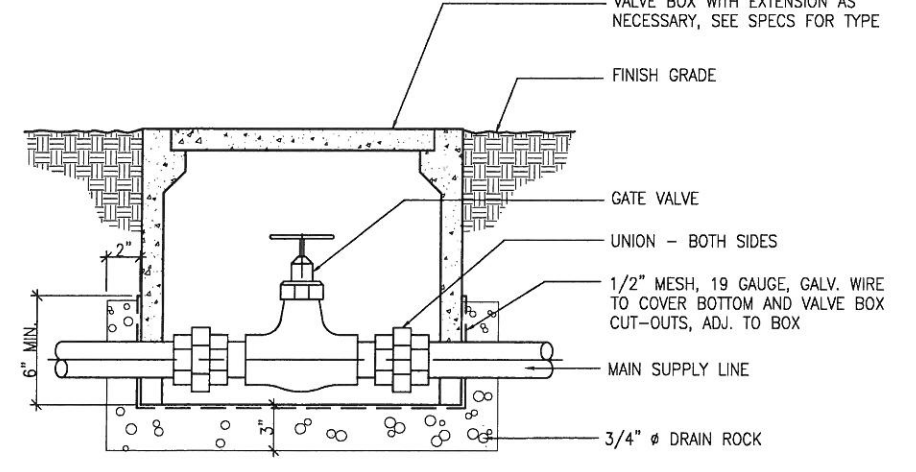


### IRRIGATION SUPPLY LINE ⑤

NOT TO SCALE

### PIPE SLEEVE ⑥

NOT TO SCALE



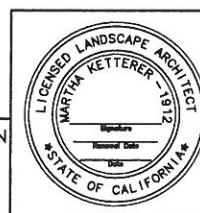
### GATE VALVE AND VALVE BOX ⑦

NOT TO SCALE

PLOT: EXTENTS  
SCALE: 1:1  
BORDER:  
22,34  
COLOR: No.  
RED 0.70MM  
YELLOW 0.20MM  
GREEN 0.25MM  
CYAN 0.40MM  
BLUE 0.50MM  
MAGENTA 0.20MM  
WHITE 0.35MM  
GRAY 0.15MM  
9 0.15MM  
10 1.00MM  
100 0.50MM  
210 0.50MM

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ELEVATION  
DATUM



100% SUBMITTAL

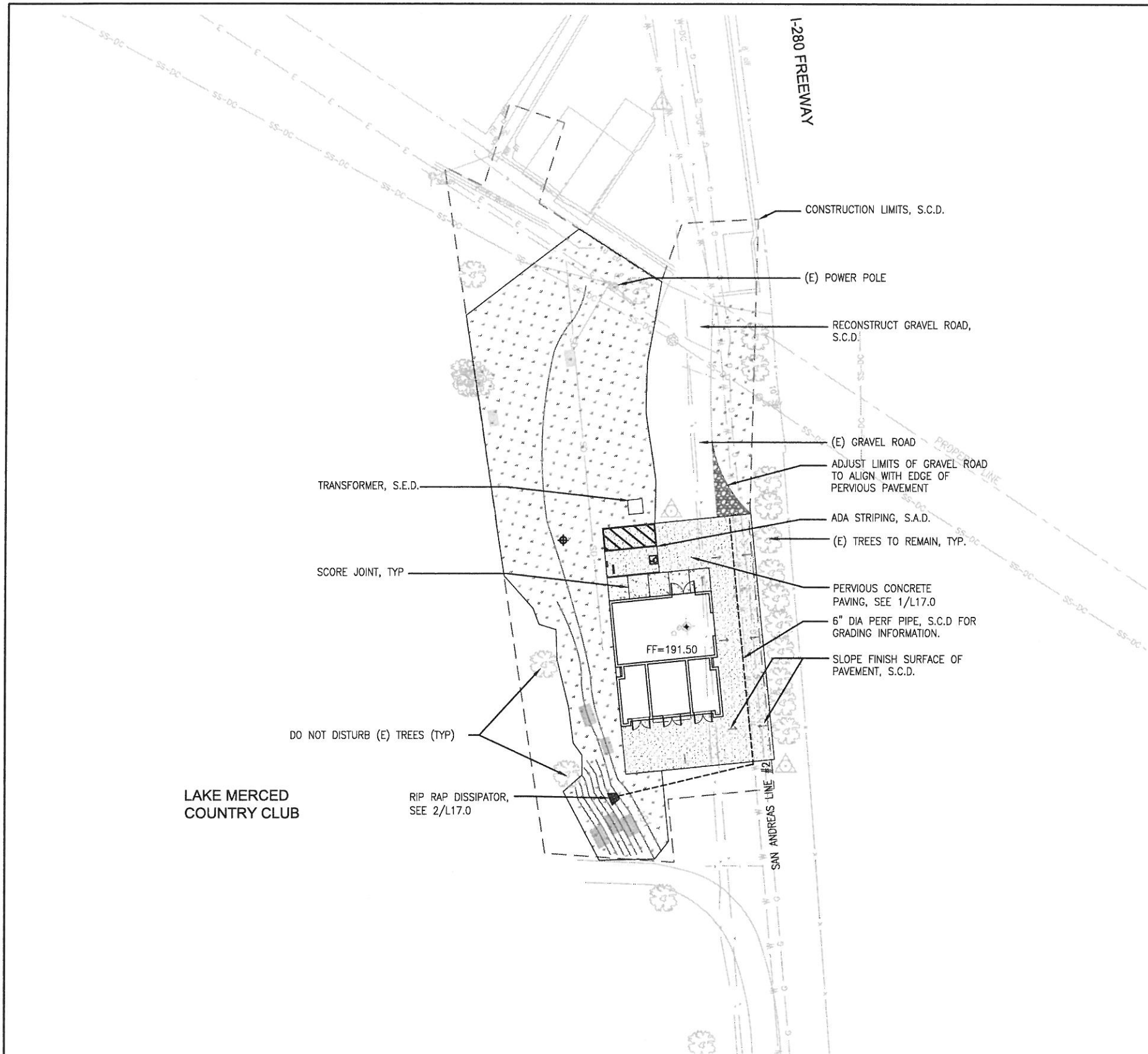
NO.	DATE	DESCRIPTION	BY	APPR'D
REVISIONS				

CONTRACT NO. WD-2668

CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
INFRASTRUCTURE DIVISION  
ENGINEERING MANAGEMENT BUREAU  
REGIONAL GROUNDWATER  
STORAGE AND RECOVERY

IRRIGATION DETAILS

CHECKED / APPROVED	DRAWN	DF	SCALE AS SHOWN
			DATE 11/2013
SECTION MANAGER	DESIGNED		
APPROVED	APPROVED		
MANAGER, ENGINEERING MANAGEMENT BUREAU	MANAGER, WATER SUPPLY AND TREATMENT DIVISION		
SHEET	PLAN NO.	DRAWING NO.	REVISION NO.
- OF -	L-0.3	E-	0

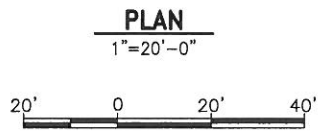


LEGEND		
SYMBOL	PLANT NAME	COMMENTS
	PERVIOUS CONCRETE PAVING, SEE SPECS	SEE DETAIL 1, L-0.1
	CONCRETE PAVING, SEE SPECS	SEE DETAIL 3, L-0.1
	HYDRO-SEEDED CA NATIVE GRASSES	SEE SPECS

- NOTES:
1. ALL DISTURBED LANDSCAPE AREAS WITH SLOPES 3:1 OR STEEPER TO RECEIVE EROSION CONTROL JUTE MESH AND HYDROSEED GRASS, SEE SPECS.
  2. HYDRO-SEED ALL DISTURBED SOIL AREAS IMPACTED BY CONSTRUCTION.
  3. COORDINATE ALL WORK WITH PIPELINE DRAWINGS AND MECHANICAL DRAWINGS.
  4. S.C.D. FOR LAYOUT INFORMATION

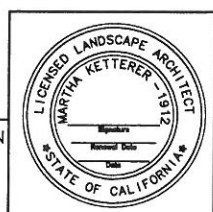
LAKE MERCED COUNTRY CLUB

- PLOT: EXTENTS  
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GREEN 0.25MM  
CYAN 0.40MM  
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MAGENTA 0.20MM  
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GRAY 0.15MM  
9 0.15MM  
10 1.00MM  
100 0.50MM  
210 0.50MM



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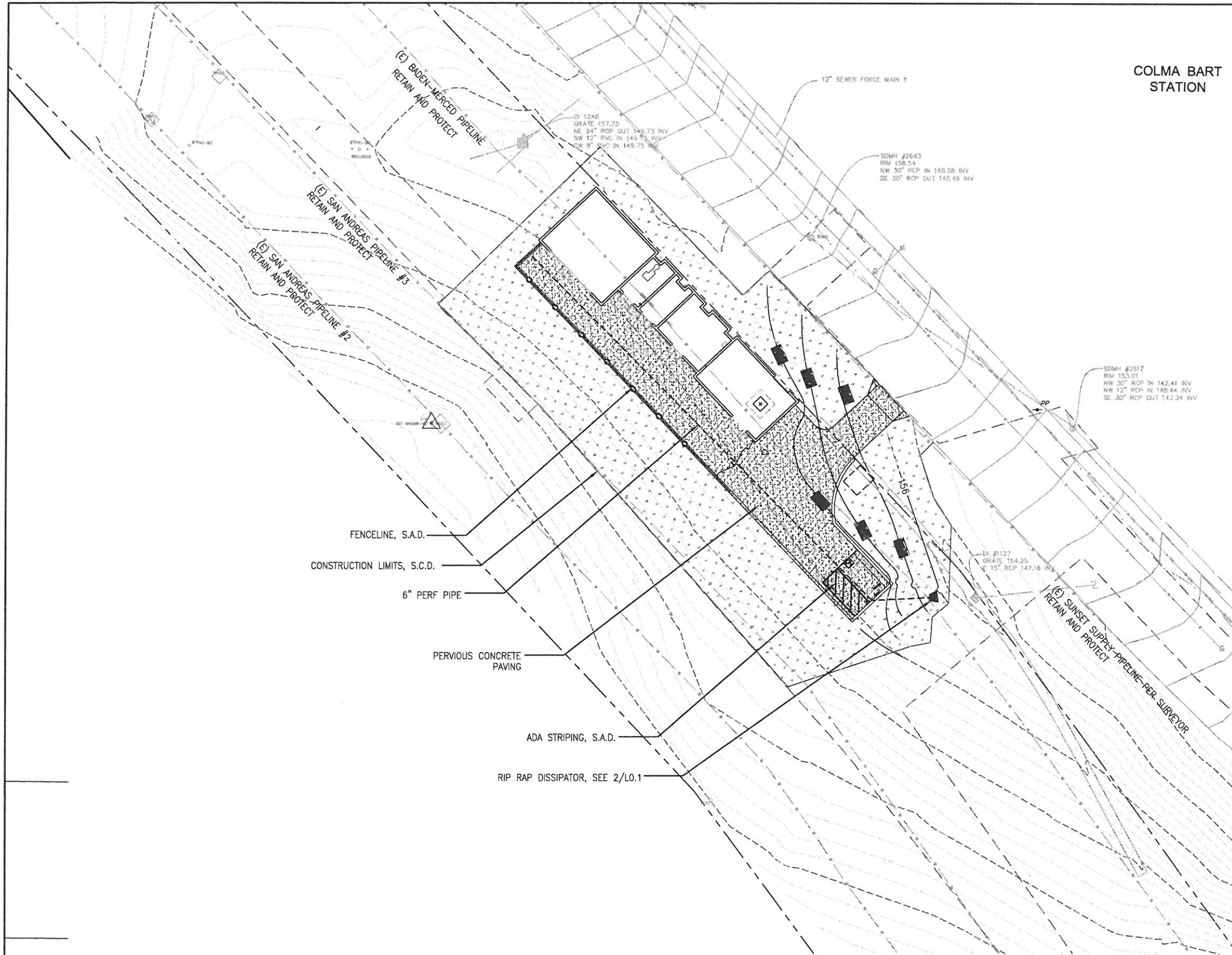
ELEVATION DATUM  
NAVD88



100% SUBMITTAL

CONTRACT NO. WD-2668

CITY AND COUNTY OF SAN FRANCISCO <b>PUBLIC UTILITIES COMMISSION</b> INFRASTRUCTURE DIVISION ENGINEERING MANAGEMENT BUREAU			
REGIONAL GROUNDWATER STORAGE AND RECOVERY			
LAKE MERCED COUNTRY CLUB LOCATION CUP-3A LANDSCAPE PLAN			
CHECKED / APPROVED	DRAWN	DATE	SCALE AS SHOWN
SECTION MANAGER	DESIGNED	DATE	11/2013
APPROVED	APPROVED		
MANAGER, ENGINEERING MANAGEMENT BUREAU	MANAGER, WATER SUPPLY AND TREATMENT DIVISION		
NO.	DATE	DESCRIPTION	BY
		REVISIONS	APPR'D
OF	PLAN NO.	DESIGNED NO.	REVISION NO.
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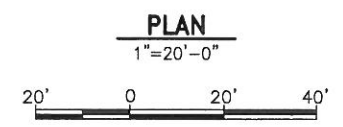
**COLMA BART STATION**

LEGEND		
SYMBOL	PLANT NAME	COMMENTS
	PERVIOUS CONCRETE PAVING, SEE SPECS	SEE DETAIL 1, SHEET L-0.1
	HYDRO-SEEDED CA NATIVE GRASSES	SEE SPECS

- NOTES:**
1. ALL DISTURBED LANDSCAPE AREAS WITH SLOPES 3:1 OR STEEPER TO RECEIVE EROSION CONTROL JUTE MESH AND HYDROSEED GRASS, SEE SPECS.
  2. HYDRO-SEED ALL DISTURBED SOIL AREAS IMPACTED BY CONSTRUCTION.
  3. COORDINATE ALL WORK WITH PIPELINE DRAWINGS AND MECHANICAL DRAWINGS.
  4. S.C.D. FOR LAYOUT INFORMATION

- FENCELINE, S.A.D.
- CONSTRUCTION LIMITS, S.C.D.
- 6" PERF PIPE
- PERVIOUS CONCRETE PAVING
- ADA STRIPING, S.A.D.
- RIP RAP DISSIPATOR, SEE 2/L0.1

- PLOT: EXTENTS**  
**SCALE: 1:1**  
**BORDER: 22,34**  
**COLOR: No.**  
 RED 0.70MM  
 YELLOW 0.20MM  
 GREEN 0.25MM  
 CYAN 0.40MM  
 BLUE 0.50MM  
 MAGENTA 0.20MM  
 WHITE 0.35MM  
 GRAY 0.15MM  
 9 0.15MM  
 10 1.00MM  
 100 0.50MM  
 210 0.50MM



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ELEVATION DATUM  
**NAD83**  
**NAVD88**



**100% DRAFT**

NO.	DATE	DESCRIPTION	BY	APP'D
REVISIONS				

**CONTRACT NO. WD-2668**

CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
 INFRASTRUCTURE DIVISION  
 ENGINEERING MANAGEMENT BUREAU

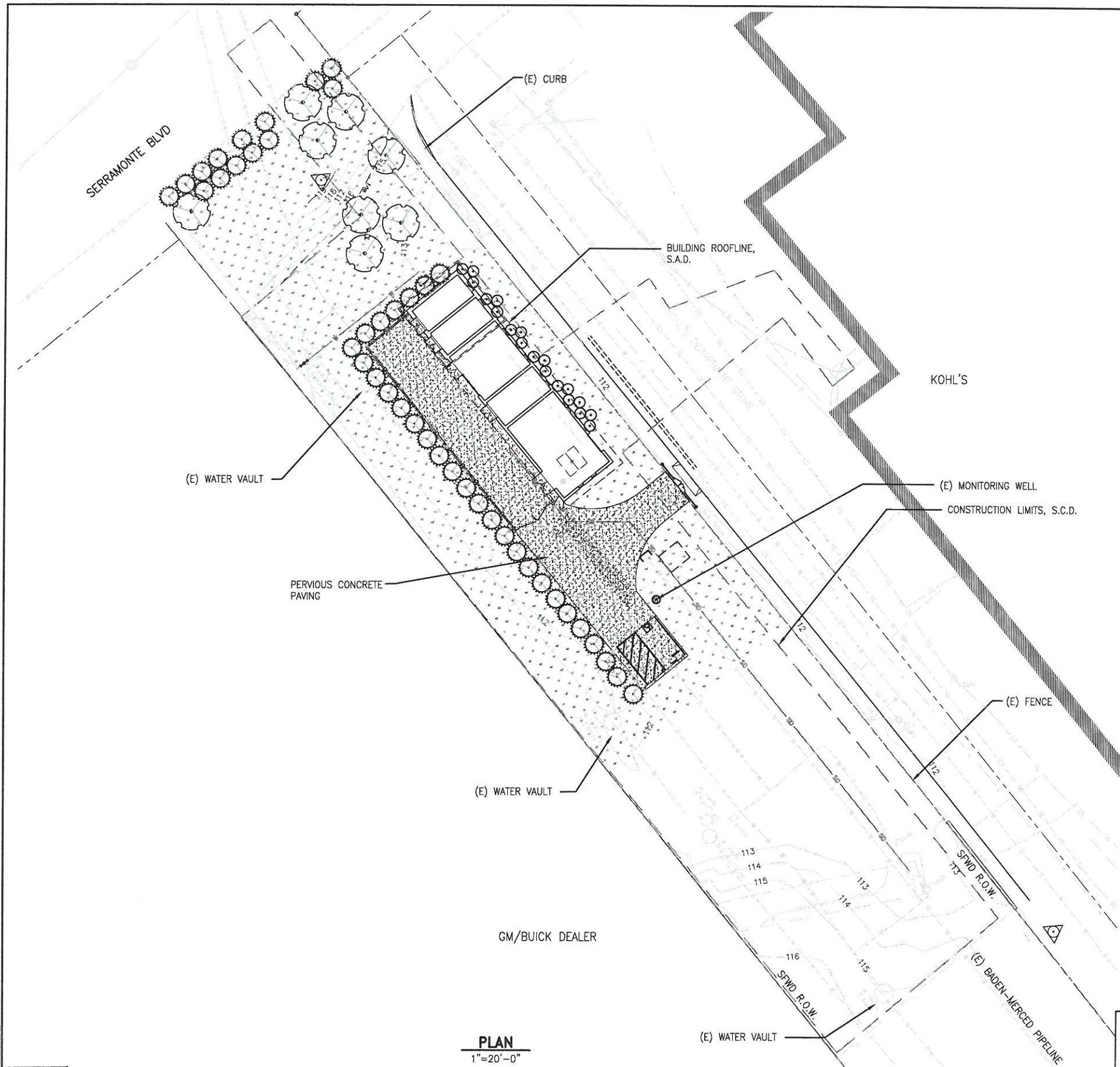
REGIONAL GROUNDWATER  
 STORAGE AND RECOVERY PROJECT

ROW AT COLMA BART  
 LOCATION CUP-11A  
 LANDSCAPE PLAN

CHECKED / APPROVED	DRAWN	DF	SCALE AS SHOWN
SECTION MANAGER	DESIGNED		DATE SEP 2013
APPROVED	APPROVED		
MANAGER, ENGINEERING MANAGEMENT BUREAU	MANAGER, WATER SUPPLY AND TREATMENT DIVISION		

NO.	DATE	DESCRIPTION	BY	APP'D
REVISIONS				

SHEET **L-6.0** OF **E-** REVISION NO. **0**



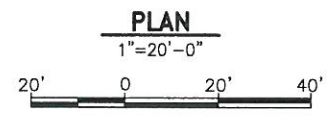
LEGEND			
SYMBOL	PLANT NAME	SIZE	COMMENTS
	PERVIOUS CONCRETE PAVING, SEE SPECS		SEE DETAIL 1, L-0.1
	HYDRO-SEEDED CA NATIVE GRASSES, SEE SPECS		SEE SPECS
	ARBUTUS 'MARINA' Strawberry Tree	24" BOX	SEE DETAIL 3, L-0.2
	ARCTOSTAPHYLOS SPP. Manzanita	5 GAL	SEE DETAIL 1, L-0.2
	PHORIDIUM 'BRONZE BABY' New Zealand Flax	5 GAL	SEE DETAIL 1, L-0.2

- NOTES:
1. ALL DISTURBED LANDSCAPE AREAS WITH SLOPES 3:1 OR STEEPER TO RECEIVE EROSION CONTROL JUTE MESH AND HYDROSEED GRASS, SEE SPECS.
  2. HYDRO-SEED ALL DISTURBED SOIL AREAS IMPACTED BY CONSTRUCTION.
  3. COORDINATE ALL WORK WITH PIPELINE DRAWINGS AND MECHANICAL DRAWINGS.
  4. S.C.D. FOR LAYOUT INFORMATION

PLOT: EXTENTS  
SCALE: 1:1  
BORDER:  
22.34

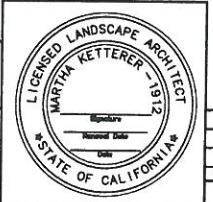
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YELLOW 0.20MM  
GREEN 0.25MM  
CYAN 0.40MM  
BLUE 0.50MM

LINE: No.  
WHITE 0.35MM  
GRAY 0.15MM  
9 0.15MM  
10 1.00MM  
100 0.50MM  
210 0.50MM



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ELEVATION DATUM  
NAVD88



**100% SUBMITTAL**

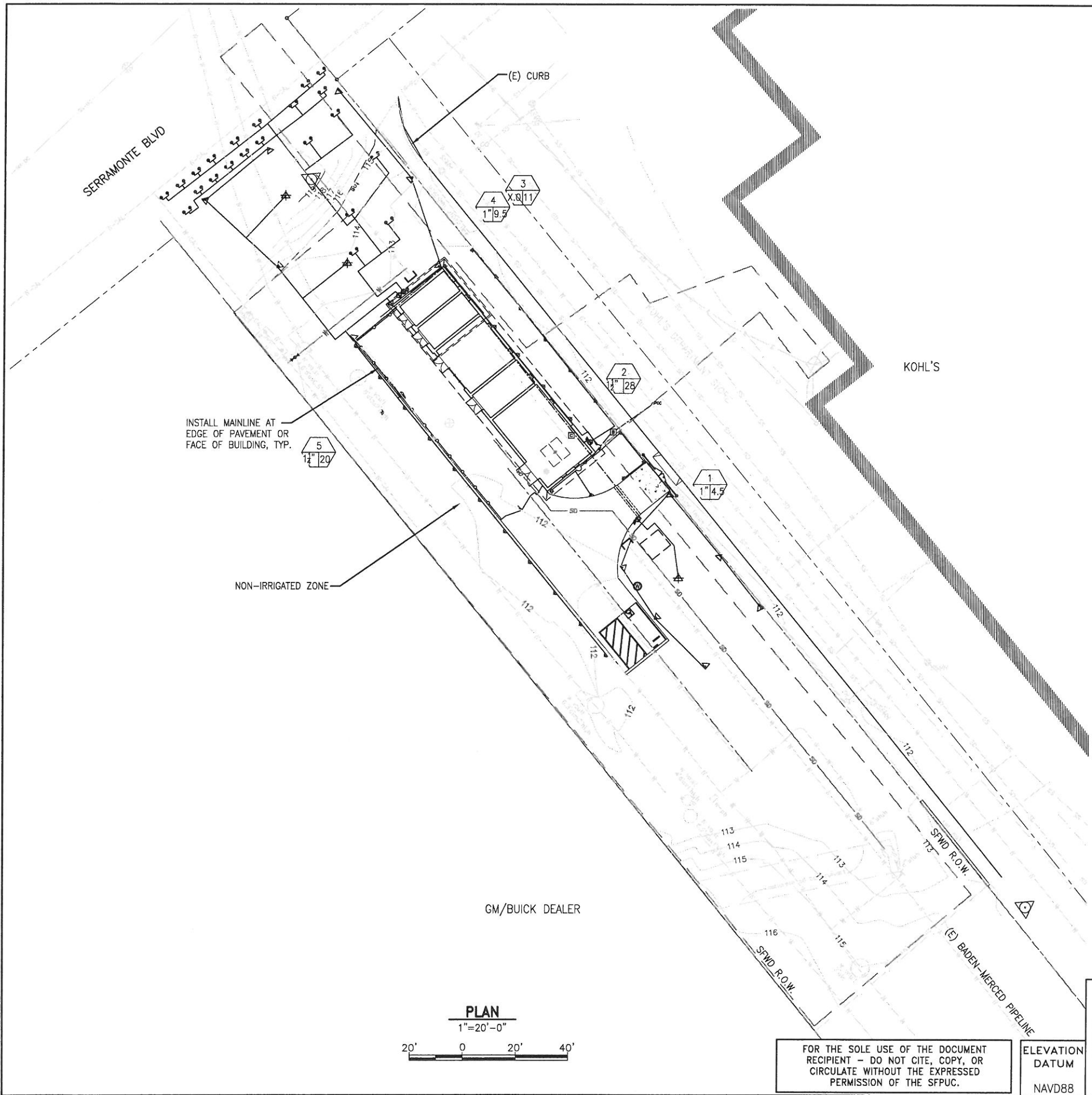
**CONTRACT NO. WD-2668**

CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
INFRASTRUCTURE DIVISION  
ENGINEERING MANAGEMENT BUREAU

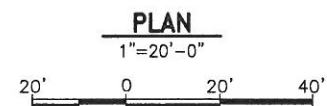
REGIONAL GROUNDWATER STORAGE AND RECOVERY  
ROW AT SERRAMONTE BLVD, COLMA  
LOCATION CUP-19  
LANDSCAPE PLAN

CHECKED / APPROVED	DRAWN	DF	SCALE AS SHOWN
SECTION MANAGER	DESIGNED	DATE	11/2013
APPROVED	APPROVED		
MANAGER, ENGINEERING MANAGEMENT BUREAU	MANAGER, WATER SUPPLY AND TREATMENT DIVISION		
SHEET	PLAN NO.	DRAWING NO.	REVISION NO.
- OF -	L-8.0	E-	0

NOTES:  
1. FOR IRRIGATION LEGEND AND NOTES, SEE DWG L-8.2

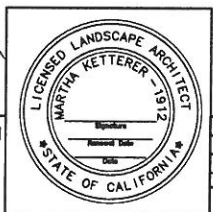


PLOT: EXTENTS  
SCALE: 1:1  
BORDER:  
22,34  
COLOR: No.  
RED 0.70MM  
YELLOW 0.20MM  
GREEN 0.25MM  
CYAN 0.40MM  
BLUE 0.50MM  
MAGENTA 0.20MM  
WHITE 0.35MM  
GRAY 0.15MM  
9 0.15MM  
10 1.00MM  
100 0.50MM  
210 0.50MM



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ELEVATION  
DATUM  
NAVD88



**100% SUBMITTAL**

NO.	DATE	DESCRIPTION	BY	APPR'D
REVISIONS				

**CONTRACT NO. WD-2668**

CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
INFRASTRUCTURE DIVISION  
ENGINEERING MANAGEMENT BUREAU

REGIONAL GROUNDWATER  
STORAGE AND RECOVERY  
ROW AT SERRAMONTE BLVD, COLMA  
LOCATION CUP-19  
IRRIGATION PLAN

CHECKED / APPROVED	DESIGN	DF	SCALE AS SHOWN
SECTION MANAGER	DESIGNED	DATE	11/2013
APPROVED	APPROVED		
MANAGER, ENGINEERING MANAGEMENT BUREAU	MANAGER, WATER SUPPLY AND TREATMENT DIVISION		

SHEET	PLAN NO.	REVISION NO.	REVISION NO.
- OF -	L-8.1	E-	0



SYMBOL	MANUF.	DESCRIPTION	EQUAL
---		1 1/4" IRRIGATION MAIN LINE: SCH 40 GALV. PIPE, SIZE AS SHOWN	
---		LATERAL LINE: SCH 40 PVC, SIZE AS NOTED BELOW	
---		SCHEDULE 80 PVC SLEEVE SEE DETAIL X, SHEET X	
[C]	HUNTER	IRRIGATION CONTROLLER, ICC-1200-PL, LOCATED BY ENGINEER IN ELECTRICAL ROOM (SHOWN WITH EQUIPMENT TAG NO.)	NA
[B]	FEBCO	BACKFLOW PREVENTER, 1 1/2", 825Y, INSTALL IN BPDJ STAINLESS STEEL COAST GUARDSHACK ENCLOSURE MOD. #CGS-2, OR EQUAL. SEE DETAIL X SHEET X	NA
⊕	WILKINS	PRESSURE REDUCING VALVE WITH PRESSURE GAUGE, MODEL 600SCG, 1 1/2", INSTALL PER DET. X, SHT X SET OUTLET PRESSURE AT 30 PSI	NA
⊕	SUPERIOR	BRASS REMOTE CONTROL VALVE, 950-DWS, SIZE PER DRAWING	NA
⊕	NIBCO	GATE VALVE: T-113, 1"	RED & WHITE

SYMBOL	MANUF.	DESCRIPTION	PSI	GPM	DESCRIPTION
3 1.0 1/4"		CONTROLLER & STATION NUMBER			
⊕	RAINBIRD	1812-SAM-PRS-15Q	30	.92	POP-UP SPRAY
⊕	RAINBIRD	1812-SAM-PRS-15H	30	1.85	POP-UP SPRAY
⊕	RAINBIRD	1812-SAM-PRS-15F	30	3.70	POP-UP SPRAY
⊕	HUNTER	1-20-06-2.5-35H	35	1.05	35' ROTOR SPRAY
⊕	HUNTER	1-20-06-2.5-35Q	35	.52	35' ROTOR SPRAY
⊕	HUNTER	1-20-06-2.0LA-25F	30	1.6	25' ROTOR SPRAY
●	RAINBIRD	BUBBLER 1402		.50	
⊕	BUCKNER	QUICK COUPLER, MOD. #BUQ844RC-10			
⊕		POINT OF CONNECTION, SEE MECHANICAL DRAWINGS			

### IRRIGATION NOTES

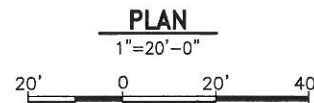
- THESE NOTES AND IRRIGATION PLAN GOVERN IRRIGATION INSTALLATION ONLY AND ARE NOT INTENDED TO GOVERN OTHER WORK.
- THE CONTRACTOR SHALL VERIFY LOCATIONS OF POINT OF CONNECTION, MAINLINES, AND PROPOSED CONTROLLERS, PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCY BETWEEN THE DRAWING AND FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE CITY REPRESENTATIVE PRIOR TO THE INSTALLATION OF ANY PIPE.
- THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF AN IRRIGATION SYSTEM THAT PROVIDES 100% COMPLETE AND APPROPRIATE COVERAGE IN ALL PLANTING AREAS. THE WORK OF THE CONTRACT INCLUDES ADJUSTMENTS TO THE SYSTEMS INDICATED, INCLUDING QUANTITIES OF PIPING, HEADS, NOZZLES AND OTHER EQUIPMENT AS NECESSARY TO ASSURE COMPLETE COVERAGE.
- THE IRRIGATION DRAWINGS ARE DIAGRAMATIC, AND DO NOT SHOW EXACT LOCATIONS OF PIPING, VALVES OR CONTROL LINES. INSTALL THESE ITEMS IN PLANTING AREAS PARALLEL TO, AND AS CLOSE AS POSSIBLE TO CURBS, HEADERS OR PAVING EDGES UNLESS OTHERWISE INDICATED.
- THE CONTRACTOR SHALL COORDINATE WORK WITH ALL APPROPRIATE TRADES FOR THE INSTALLATION OF PIPING, PIPE SLEEVES AND ELECTRICAL CONDUIT.
- ALL PIPING AND CONTROL WIRING UNDER PAVING SHALL BE INSTALLED IN SCHEDULE 80 PVC PIPE SLEEVES OF SUFFICIENT SIZE TO ALLOW FOR EASY INSERTION AND REMOVAL.
- INSTALL EACH SOLENOID VALVE IN A SEPARATE VALVE BOX. SEE DETAILS AND SPECIFICATIONS.
- IRRIGATION HEADS ARE INDICATED AS ACCURATELY AS POSSIBLE ON THE DRAWING. INSTALL HEADS AS INDICATED BY THE CENTERLINE OF THE SYMBOL AND IN ACCORDANCE WITH INSTALLATION DETAILS.
- THE PROPOSED CONTROLLER SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS AND LOCATED BY CITY REPRESENTATIVE.

### SPRINKLER PIPING SIZES

GPM	PIPE SIZE (NOMINAL SCH 40 PVC)
9 OR LESS	3/4" ø
15	1" ø
25	1 1/4" ø
35	1 1/2" ø

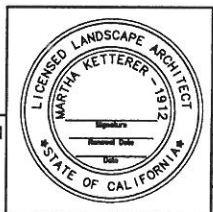
NOTE:  
IRRIGATION PIPING DOWNSTREAM OF THE REMOTE CONTROL UNIT SHALL BE SIZED PER THE CHART ABOVE WHEN NOT INDICATED, ON THE PLAN DRAWINGS. REFER TO THE IRRIGATION LEGEND FOR SPRINKLER FLOW RATES (GPM). NO PIPING DOWNSTREAM OF THE REMOTE CONTROL VALVE TO THE SPRINKLER SHALL BE SIZED SMALLER THAN THE SPRINKLER THREADED INLET SIZE.

PLOT: EXTENTS  
SCALE: 1:1  
BORDER:  
22,34  
COLOR: No.  
RED 0.70MM  
YELLOW 0.20MM  
GREEN 0.25MM  
CYAN 0.40MM  
BLUE 0.50MM  
MAGENTA 0.20MM  
WHITE 0.35MM  
GRAY 0.15MM  
9 0.15MM  
10 1.00MM  
100 0.50MM  
210 0.50MM



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NAVD88

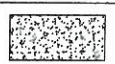
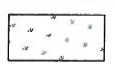


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NO.	DATE	DESCRIPTION	BY	APPR'D
REVISIONS				

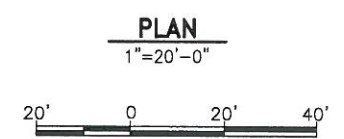
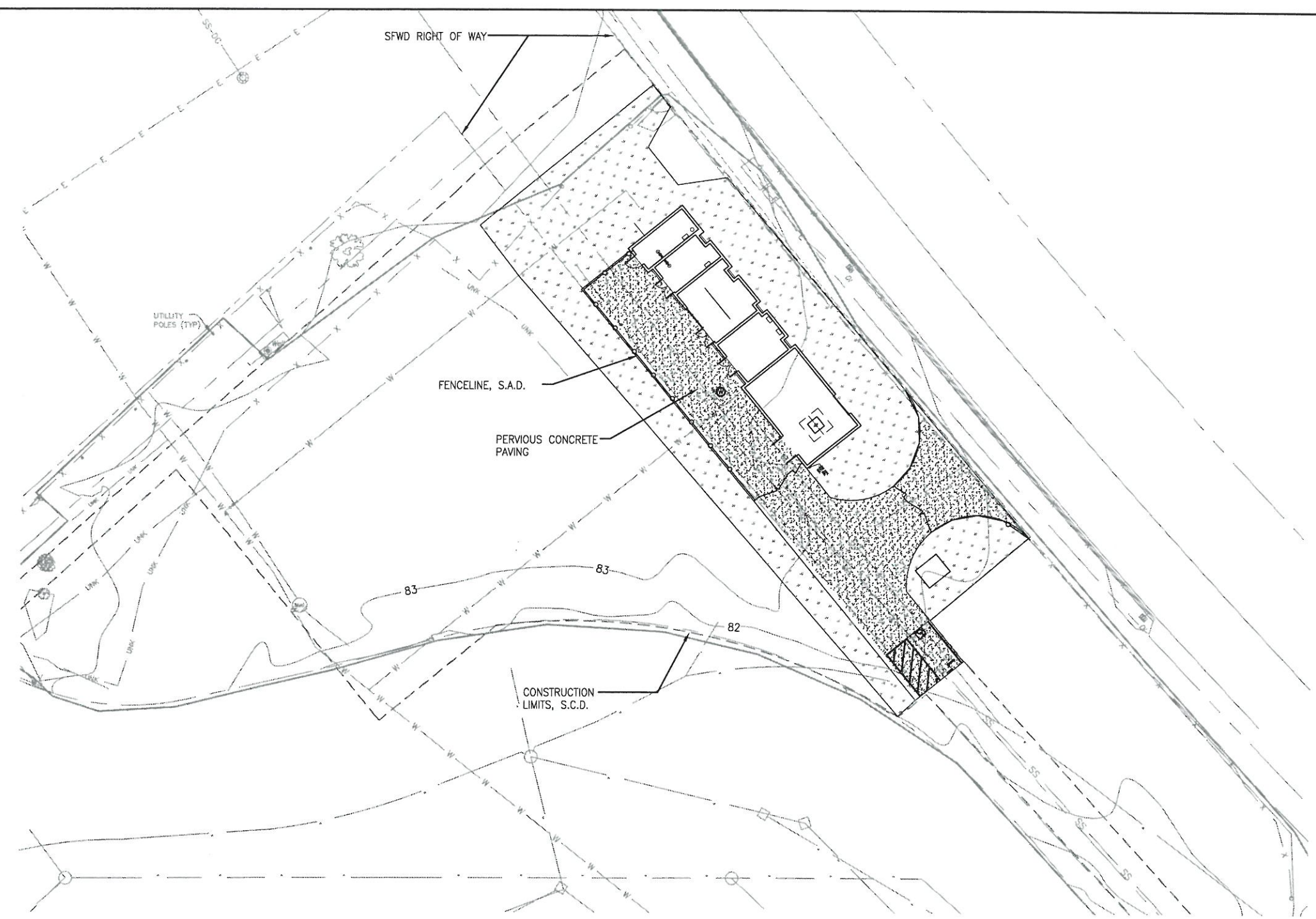
CONTRACT NO. WD-2668

CITY AND COUNTY OF SAN FRANCISCO			
PUBLIC UTILITIES COMMISSION			
INFRASTRUCTURE DIVISION			
ENGINEERING MANAGEMENT BUREAU			
REGIONAL GROUNDWATER STORAGE AND RECOVERY			
ROW AT SERRAMONTE BLVD, COLMA			
LOCATION CUP-19			
IRRIGATION NOTES AND LEGEND			
DESIGNED / APPROVED	DRAWN	DF	SCALE AS SHOWN
SECTION MANAGER	DESIGNED	DATE	11/2013
APPROVED	APPROVED		
MANAGER, ENGINEERING MANAGEMENT BUREAU	MANAGER, WATER SUPPLY AND TREATMENT DIVISION		
PLANNING	PLANNING	REVISION NO.	
— OF —	L-8.2	E-	0

LEGEND		
SYMBOL	PLANT NAME	COMMENTS
	PERVIOUS CONCRETE PAVING, SEE SPECS	SEE DETAIL 2, SHEET L-0.1
	HYDRO-SEEDED CA NATIVE GRASSES,	SEE SPECS

NOTES:

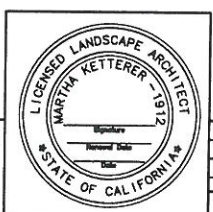
1. ALL DISTURBED LANDSCAPE AREAS WITH SLOPES 3:1 OR STEEPER TO RECEIVE EROSION CONTROL JUTE MESH AND HYDROSEED GRASS, SEE SPECS.
2. HYDRO-SEED ALL DISTURBED SOIL AREAS IMPACTED BY CONSTRUCTION.
3. COORDINATE ALL WORK WITH PIPELINE DRAWINGS AND MECHANICAL DRAWINGS.
4. S.C.D. FOR LAYOUT INFORMATION



PLOT: EXTENTS  
SCALE: 1:1  
BORDER:  
22,34  
COLOR: No.  
RED 0.70MM  
YELLOW 0.20MM  
GREEN 0.25MM  
CYAN 0.40MM  
BLUE 0.50MM  
MAGENTA 0.20MM  
WHITE 0.35MM  
GRAY 0.15MM  
9 0.15MM  
10 1.00MM  
100 0.50MM  
210 0.50MM

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ELEVATION  
DATUM  
NAVD88



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NO.	DATE	DESCRIPTION	BY	APPR'D

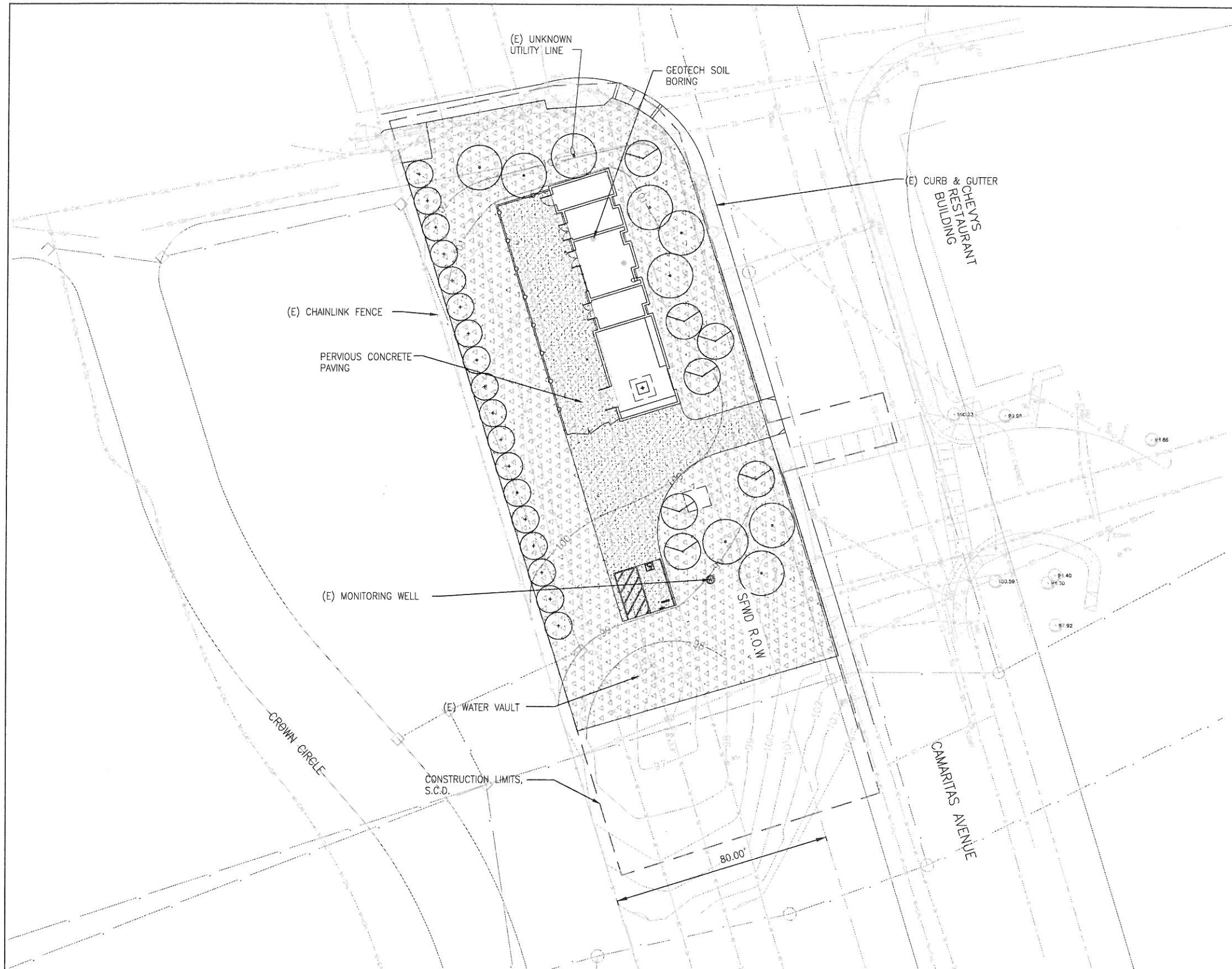
**CONTRACT NO. WD-2668**

CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
INFRASTRUCTURE DIVISION  
ENGINEERING MANAGEMENT BUREAU

REGIONAL GROUNDWATER  
STORAGE AND RECOVERY  
TREASURE ISLAND TRAILER CT., SSF  
LOCATION CUP-23  
LANDSCAPE PLAN

DESIGNED / APPROVED	DRAWN	DF	SCALE AS SHOWN
SECTION MANAGER	DESIGNED	DATE	11/2013
APPROVED	APPROVED		
MANAGER, ENGINEERING MANAGEMENT BUREAU	MANAGER, WATER SUPPLY AND TREATMENT DIVISION		

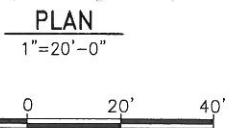
OF **L-9.0** **E-** **0**



LEGEND			
SYMBOL	PLANT NAME	SIZE	COMMENTS
[Stippled pattern]	PERVIOUS CONCRETE PAVING, SEE SPECS		SEE DETAIL 1, L-0.1
[Dotted pattern]	NO MOW FESCUE		SEE SPECS
[Circle with dot]	LIQUIDAMBAR STYRACIFLUA 'FESTIVAL' American Sweetgum	24" BOX	SEE DETAIL 2, L-0.2
[Circle with wedge]	CERCIS CANADENSIS 'FOREST PANSY' Eastern Redbud	24" BOX	SEE DETAIL 2, L-0.2
[Circle with cross]	RHAMNUS CALIFORNICA Coffeeberry	24" BOX	SEE DETAIL 1, L-0.2

- NOTES:
1. ALL DISTURBED LANDSCAPE AREAS WITH SLOPES 3:1 OR STEEPER TO RECEIVE EROSION CONTROL JUTE MESH AND HYDROSEED GRASS, SEE SPECS.
  2. HYDRO-SEED ALL DISTURBED SOIL AREAS IMPACTED BY CONSTRUCTION.
  3. COORDINATE ALL WORK WITH PIPELINE DRAWINGS AND MECHANICAL DRAWINGS.
  4. S.C.D. FOR LAYOUT INFORMATION

PLOT: EXTENTS  
 SCALE: 1:1  
 BORDER: 22,34  
 COLOR: No.  
 RED 0.70MM  
 YELLOW 0.20MM  
 GREEN 0.25MM  
 CYAN 0.40MM  
 BLUE 0.50MM  
 MAGENTA 0.20MM  
 WHITE 0.35MM  
 GRAY 0.15MM  
 9 0.15MM  
 10 1.00MM  
 100 0.50MM  
 210 0.50MM



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 NAVD88



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NO.	DATE	DESCRIPTION	BY	APPR'D
REVISIONS				

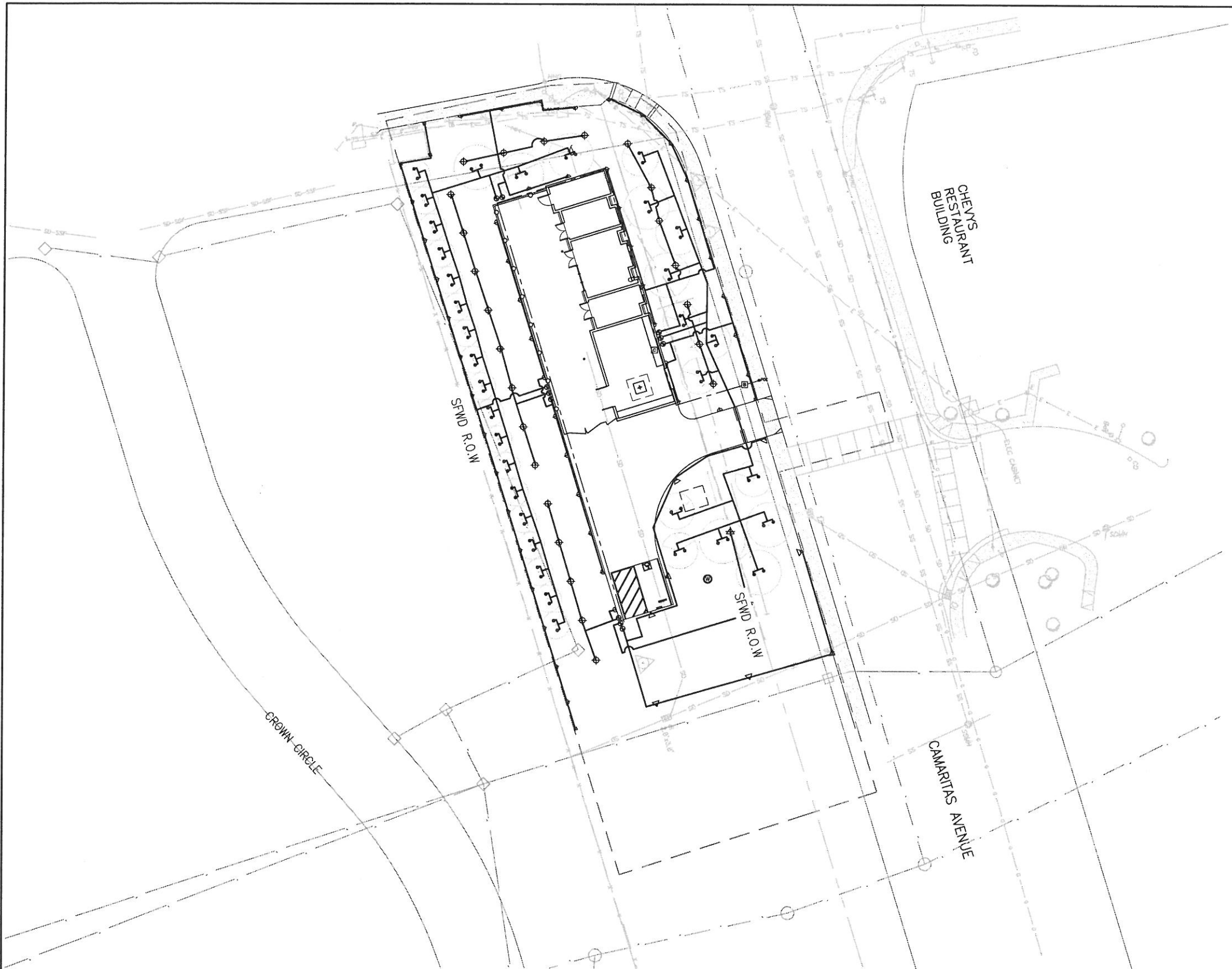
CONTRACT NO. WD-2668

CITY AND COUNTY OF SAN FRANCISCO  
 PUBLIC UTILITIES COMMISSION  
 INFRASTRUCTURE DIVISION  
 ENGINEERING MANAGEMENT BUREAU

REGIONAL GROUNDWATER STORAGE AND RECOVERY  
 HICKEY BLVD, SOUTH SAN FRANCISCO  
 LOCATION CUP-22A  
 LANDSCAPE PLAN

CHECKED / APPROVED	DRAWN	DF	SCALE AS SHOWN
SECTION MANAGER	DESIGNED	DATE	11/2013
APPROVED	APPROVED		
MANAGER, ENGINEERING MANAGEMENT BUREAU	MANAGER, WATER SUPPLY AND TREATMENT DIVISION		
SHEET	PLAN NO.	DRAWING NO.	REVISION NO.
- OF -	L-10.0	E-	0

- NOTES:  
 1. FOR IRRIGATION LEGEND AND NOTES, SEE DWG L-10.2  
 2. FOR IRRIGATION DETAILS, SEE SHEET L-0.3



**PLAN**

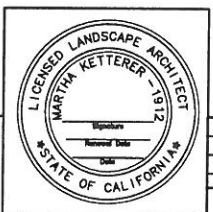
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- PLOT: EXTENTS  
 SCALE: 1:1  
 BORDER: 22,34  
 COLOR: No.  
 RED 0.70MM  
 YELLOW 0.20MM  
 GREEN 0.25MM  
 CYAN 0.40MM  
 BLUE 0.50MM  
 MAGENTA 0.20MM  
 WHITE 0.35MM  
 GRAY 0.15MM  
 9 0.15MM  
 10 1.00MM  
 100 0.50MM  
 210 0.50MM

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ELEVATION  
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**CONTRACT NO. WD-2668**

CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
 INFRASTRUCTURE DIVISION  
 ENGINEERING MANAGEMENT BUREAU

REGIONAL GROUNDWATER  
 STORAGE AND RECOVERY  
 HICKEY BLVD, SOUTH SAN FRANCISCO  
 LOCATION CUP-22A  
 IRRIGATION PLAN

CHECKED / APPROVED	DATE	DF	SCALE AS SHOWN
SECTION MANAGER	DATE		11/2013

MANAGER, ENGINEERING MANAGEMENT BUREAU	DESIGNED	DATE	11/2013	
MANAGER, WATER SUPPLY AND TREATMENT DIVISION	APPROVED			
NO.	DATE	DESCRIPTION	BY	APPR'D
REVISIONS				
-	OF	L-10.1	E-	0

LEGEND			
SYMBOL	MANUF.	DESCRIPTION	EQUAL
—	—	1 1/4" IRRIGATION MAIN LINE: SCH 40 GALV. PIPE, SIZE AS SHOWN	
—	—	LATERAL LINE: SCH 40 PVC, SIZE AS NOTED BELOW	
—	—	SCHEDULE 80 PVC SLEEVE SEE DETAIL X, SHEET X	
[C]	HUNTER	IRRIGATION CONTROLLER, ICC-1200-PL, LOCATED BY ENGINEER IN ELECTRICAL ROOM (SHOWN WITH EQUIPMENT TAG NO.)	NA
[B]	FEBCO	BACKFLOW PREVENTER, 1 1/4", 825Y, INSTALL IN BPD1 STAINLESS STEEL COAST GUARDSHACK ENCLOSURE MOD. #CGS-2, OR EQUAL. SEE DETAIL X SHEET X	NA
⊕	SUPERIOR	BRASS REMOTE CONTROL VALVE, 950-DWS, SIZE PER DRAWING	NA
⊗	NIBCO	GATE VALVE: T-113, 1"	RED & WHITE

SYMBOL	MANUF.	DESCRIPTION	PSI	GPM	DESCRIPTION
3 1.014		CONTROLLER & STATION NUMBER			
⊕	RAINBIRD	1812-SAM-PRS-15Q	30	.92	POP-UP SPRAY
⊕	RAINBIRD	1812-SAM-PRS-15H	30	1.85	POP-UP SPRAY
⊕	RAINBIRD	1812-SAM-PRS-15F	30	3.70	POP-UP SPRAY
△	HUNTER	I-20-06-2.5-35H	35	1.05	35' ROTOR SPRAY
△	HUNTER	I-20-06-2.5-35Q	35	.52	35' ROTOR SPRAY
△	HUNTER	I-20-06-2.0LA-25F	30	1.6	25' ROTOR SPRAY
●	RAINBIRD	BUBBLER 1402		.50	
◆	BUCKNER	QUICK COUPLER, MOD. #BUQB44RC-10			
●POC		POINT OF CONNECTION-SEE MECHANICAL DRAWINGS			

### IRRIGATION NOTES

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- INSTALL EACH SOLENOID VALVE IN A SEPARATE VALVE BOX. SEE DETAILS AND SPECIFICATIONS.
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- THE PROPOSED CONTROLLER SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS AND LOCATED BY CITY REPRESENTATIVE.

### SPRINKLER PIPING SIZES

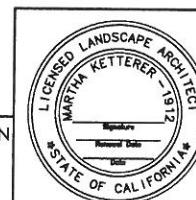
GPM	PIPE SIZE (NOMINAL SCH 40 PVC)
9 OR LESS	3/4" φ
15	1" φ
25	1 1/4" φ
35	1 1/2" φ

NOTE:  
IRRIGATION PIPING DOWNSTREAM OF THE REMOTE CONTROL UNIT SHALL BE SIZED PER THE CHART ABOVE WHEN NOT INDICATED ON THE PLAN DRAWINGS. REFER TO THE IRRIGATION LEGEND FOR SPRINKLER FLOW RATES (GPM). NO PIPING DOWNSTREAM OF THE REMOTE CONTROL VALVE TO THE SPRINKLER SHALL BE SIZED SMALLER THAN THE SPRINKLER THREADED INLET SIZE.

PLOT: EXTENTS  
SCALE: 1:1  
BORDER:  
22.34  
COLOR: No.  
RED 0.70MM  
YELLOW 0.20MM  
GREEN 0.25MM  
CYAN 0.40MM  
BLUE 0.50MM  
MAGENTA 0.20MM  
WHITE 0.35MM  
GRAY 0.15MM  
9 0.15MM  
10 1.00MM  
100 0.50MM  
210 0.50MM

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ELEVATION  
DATUM  
NAVD88



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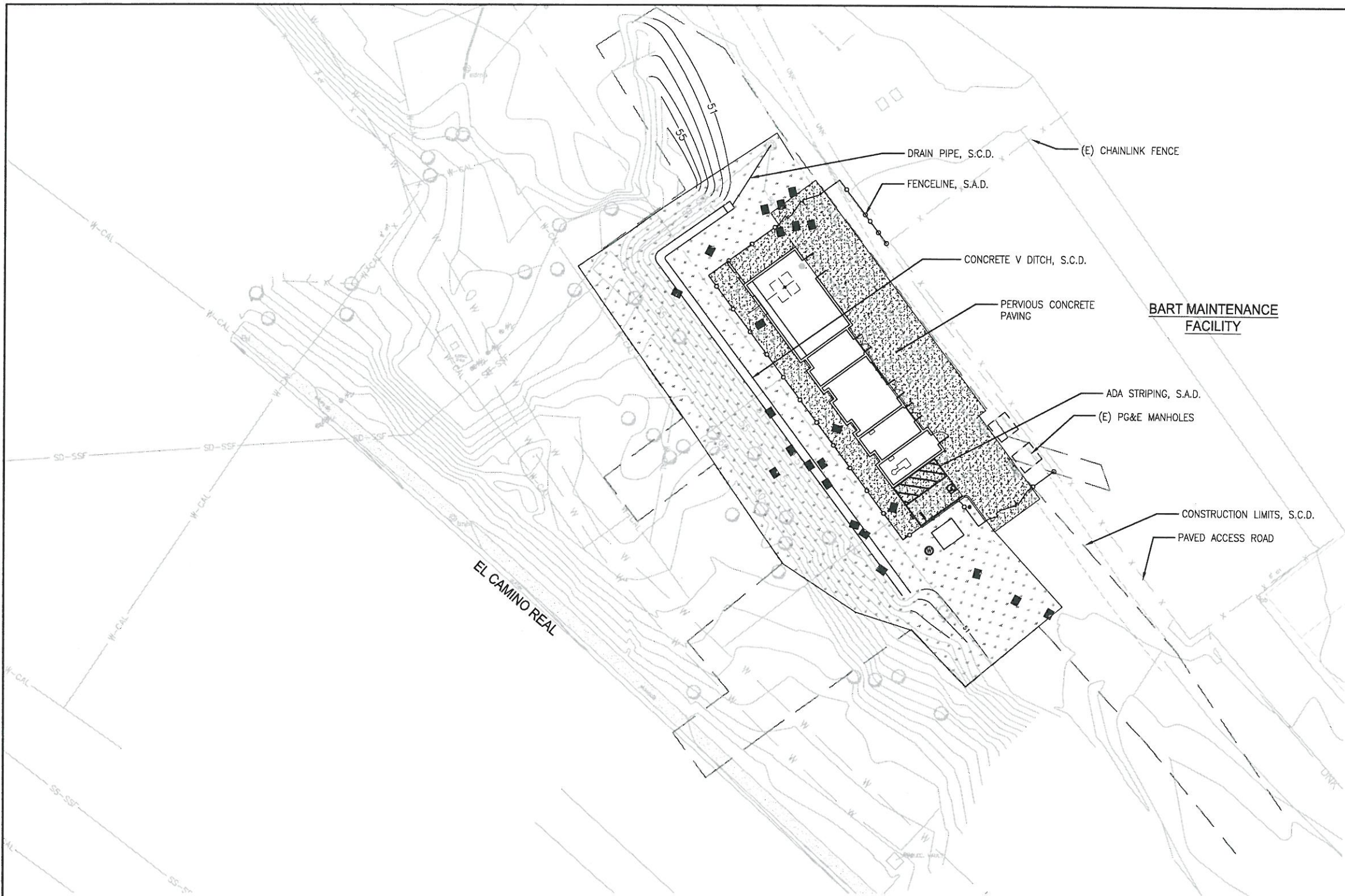
NO.	DATE	DESCRIPTION	BY	APP'D

### CONTRACT NO. WD-2668

CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
INFRASTRUCTURE DIVISION  
ENGINEERING MANAGEMENT BUREAU

REGIONAL GROUNDWATER  
STORAGE AND RECOVERY  
HICKEY BLVD, SOUTH SAN FRANCISCO  
LOCATION CUP-22A  
IRRIGATION NOTES AND LEGEND

CHECKED / APPROVED	DATE	DF	SCALE AS SHOWN
			11/2013
SECTION MANAGER	DESIGNED	DATE	
APPROVED	APPROVED		
MANAGER, ENGINEERING MANAGEMENT BUREAU	MANAGER, WATER SUPPLY AND TREATMENT DIVISION	PLAN NO.	REVISION NO.
		L-10.2	E-0



LEGEND				
SYMBOL	PLANT NAME	SIZE	QTY	COMMENTS
[Stippled pattern]	PERVIOUS CONCRETE PAVING, SEE SPECS		3,500 SF	SEE DETAIL 1, SHEET L-0.1
[Grid pattern]	HYDRO-SEEDED CA NATIVE GRASSES, SEE SPECS		4,300 SF	SEE SPECS

- NOTES:
1. ALL DISTURBED LANDSCAPE AREAS WITH SLOPES 3:1 OR STEEPER TO RECEIVE EROSION CONTROL JUTE MESH AND HYDROSEED GRASS, SEE SPECS.
  2. HYDRO-SEED ALL DISTURBED SOIL AREAS IMPACTED BY CONSTRUCTION.
  3. COORDINATE ALL WORK WITH PIPELINE DRAWINGS AND MECHANICAL DRAWINGS.
  4. S.C.D. FOR LAYOUT INFORMATION

**PLAN**

1"=20'-0"



- PLOT: EXTENTS  
 SCALE: 1:1  
 BORDER: 22,34  
 COLOR: No.  
 RED 0.70MM  
 YELLOW 0.20MM  
 GREEN 0.25MM  
 CYAN 0.40MM  
 BLUE 0.50MM  
 MAGENTA 0.20MM  
 WHITE 0.35MM  
 GRAY 0.15MM  
 9 0.15MM  
 10 1.00MM  
 100 0.50MM  
 210 0.50MM

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ELEVATION DATUM  
 NAVD88

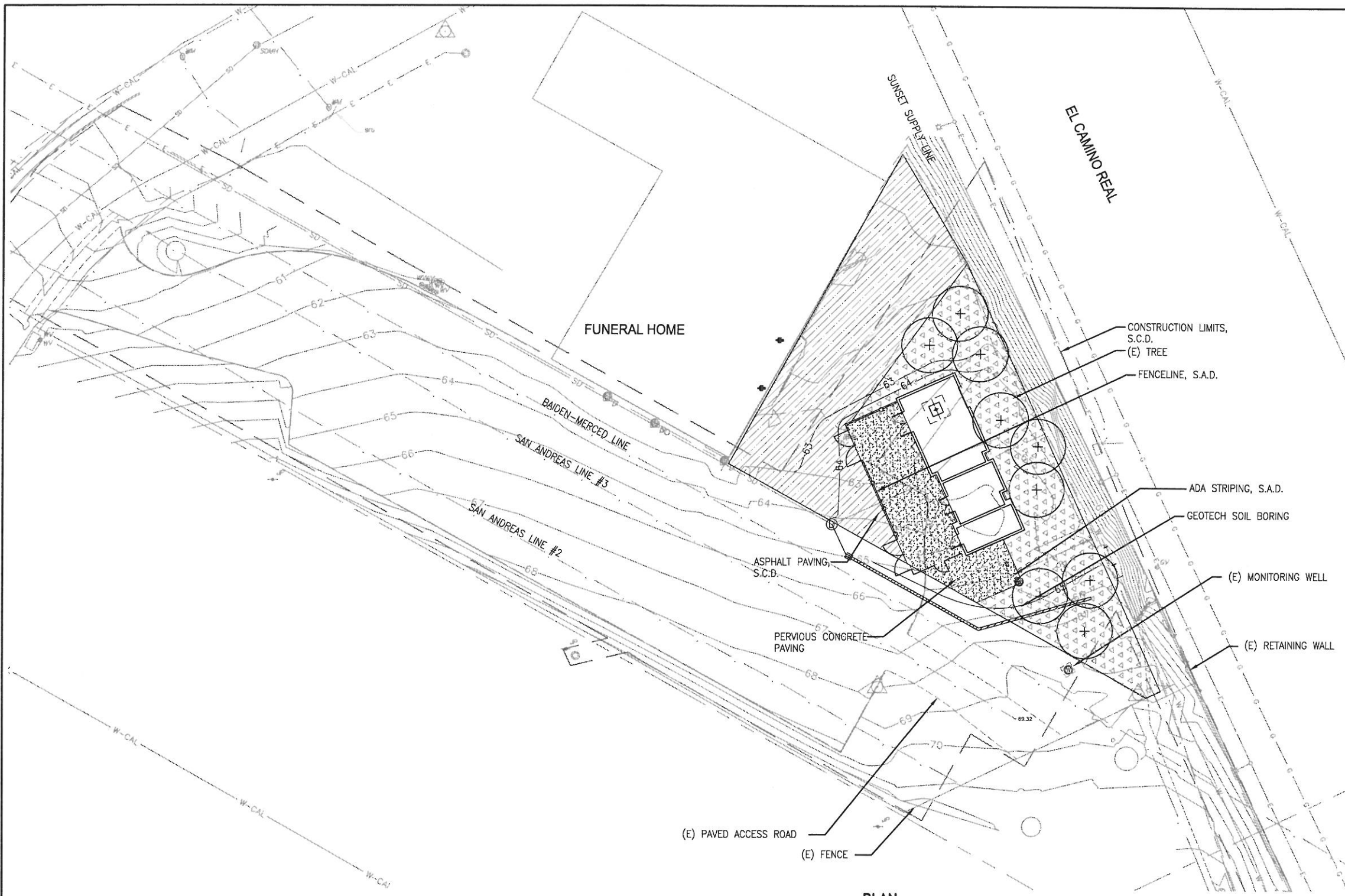


**100% SUBMITTAL**

NO.	DATE	DESCRIPTION	BY	APP'D

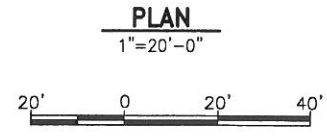
**CONTRACT NO. WD-2668**  
 CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
 INFRASTRUCTURE DIVISION  
 ENGINEERING MANAGEMENT BUREAU  
 REGIONAL GROUNDWATER STORAGE AND RECOVERY  
 SSF MAIN AREA, SSF LOCATION CUP-31  
**LANDSCAPE PLAN**

CHECKED / APPROVED	DRAWN	DF	SCALE AS SHOWN
SECTION MANAGER	DRAWN	DATE	11/2013
APPROVED	APPROVED		
MANAGER, ENGINEERING MANAGEMENT BUREAU	MANAGER, WATER SUPPLY AND TREATMENT DIVISION	PLAN NO. OF	REVISION NO.
		L-11.0	E-0



LEGEND		
SYMBOL	PLANT NAME	COMMENTS
	PERVIOUS CONCRETE PAVING, SEE SPECS	SEE DETAIL 2, SHEET L-0.1
	NO MOW FESCUE SOD	SEE SPECS
	MONTEREY CYPRESS CUPRESSUS MACROCARPA	24" BOX

- NOTES:**
1. ALL DISTURBED LANDSCAPE AREAS WITH SLOPES 3:1 OR STEEPER TO RECEIVE EROSION CONTROL JUTE MESH AND HYDROSEED GRASS, SEE SPECS.
  2. HYDRO-SEED ALL DISTURBED SOIL AREAS IMPACTED BY CONSTRUCTION.
  3. COORDINATE ALL WORK WITH PIPELINE DRAWINGS AND MECHANICAL DRAWINGS.
  4. S.C.D. FOR LAYOUT INFORMATION



PLOT: EXTENTS  
SCALE: 1:1  
BORDER:  
22,34  
COLOR: No.  
RED 0.70MM  
YELLOW 0.20MM  
GREEN 0.25MM  
CYAN 0.40MM  
BLUE 0.50MM  
MAGENTA 0.20MM  
WHITE 0.35MM  
GRAY 0.15MM  
9 0.15MM  
10 1.00MM  
100 0.50MM  
210 0.50MM

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NO.	DATE	DESCRIPTION	BY	APPROVED

**CONTRACT NO. WD-2668**

CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
INFRASTRUCTURE DIVISION  
ENGINEERING MANAGEMENT BUREAU

REGIONAL GROUNDWATER STORAGE AND RECOVERY

FUNERAL HOME, SOUTH SAN FRANCISCO  
LOCATION CUP-36-1  
LANDSCAPE PLAN

CHECKED / APPROVED	DRAWN	DF	SCALE AS SHOWN
SECTION MANAGER	DESIGNED	DATE	11/2013
APPROVED	APPROVED		
MANAGER, ENGINEERING MANAGEMENT BUREAU	MANAGER, WATER SUPPLY AND TREATMENT DIVISION		
OF	L-12.0	E-	0

LEGEND			
SYMBOL	MANUF.	DESCRIPTION	EQUAL
---		1 1/2" IRRIGATION MAIN LINE: SCH 40 GALV. PIPE, SIZE AS SHOWN	
---		LATERAL LINE: SCH 40 PVC, SIZE AS NOTED BELOW	
---		SCHEDULE 80 PVC SLEEVE SEE DETAIL X, SHEET X	
[C]	HUNTER	IRRIGATION CONTROLLER, ICC-1200-PL, LOCATED BY ENGINEER IN ELECTRICAL ROOM (SHOWN WITH EQUIPMENT TAG NO.)	NA
[B]	FEBCO	BACKFLOW PREVENTER, 1 1/2", B25Y, INSTALL IN BPTI STAINLESS STEEL COAST GUARDSHACK ENCLOSURE MOD. #CGS-2, OR EQUAL. SEE DETAIL X SHEET X	NA
[S]	SUPERIOR	BRASS REMOTE CONTROL VALVE, 950-DWS, SIZE PER DRAWING	NA
[V]	NIBCO	GATE VALVE: T-113, 1"	RED & WHITE

SYMBOL	MANUF.	DESCRIPTION	PSI	GPM	DESCRIPTION
[3] [1,014]		CONTROLLER & STATION NUMBER			
[R]	RAINBIRD	1812-SAM-PRS-15Q	30	.92	POP-UP SPRAY
[H]	RAINBIRD	1812-SAM-PRS-15H	30	1.85	POP-UP SPRAY
[F]	RAINBIRD	1812-SAM-PRS-15F	30	3.70	POP-UP SPRAY
[C]	BUCKNER	QUICK COUPLER, MOD. #BUQB44RC-10			
[B]	RAINBIRD	BUBBLER 1402	30	.50	
[P]		POINT OF CONNECTION-SEE MECHANICAL DRAWINGS			

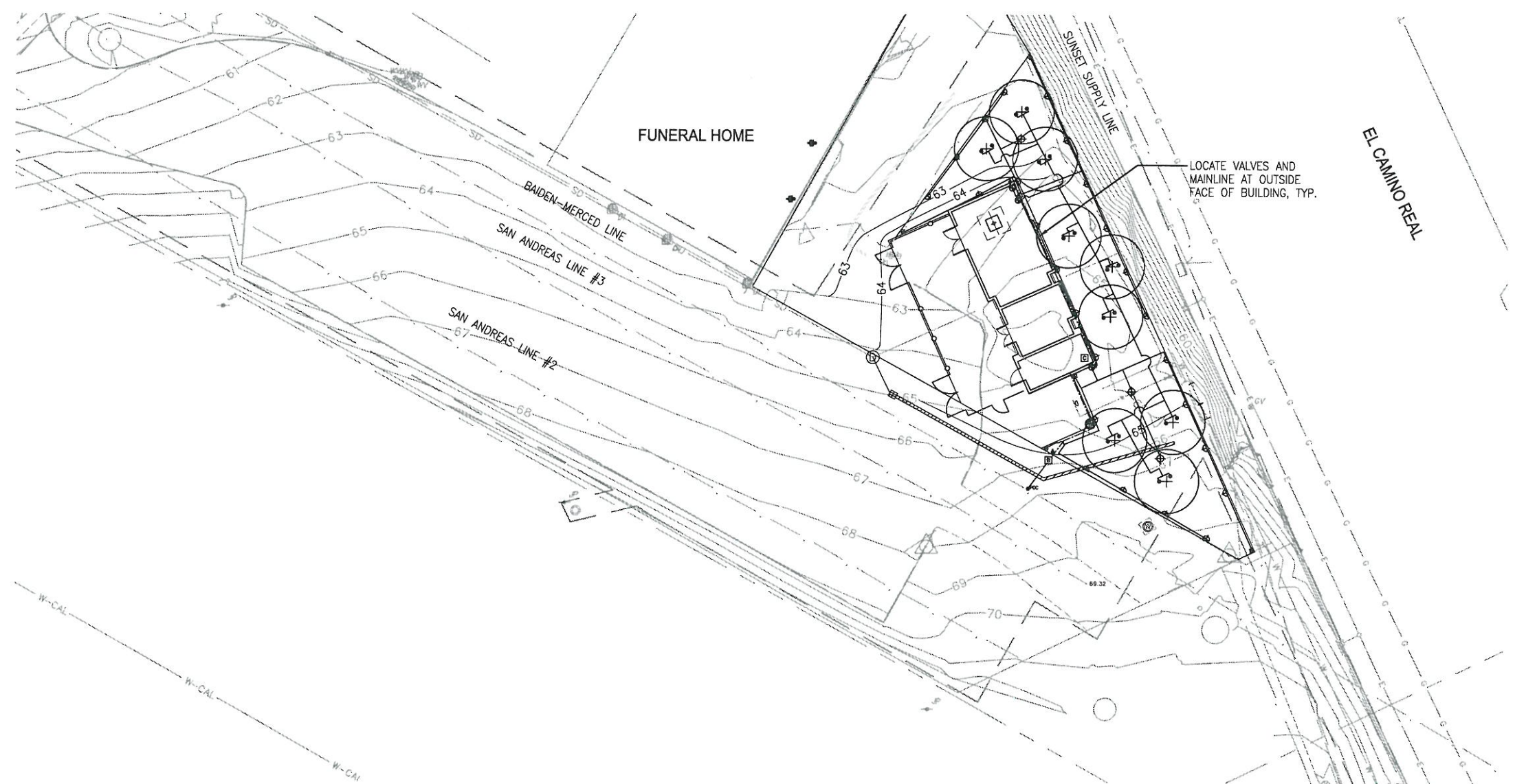
**SPRINKLER PIPING SIZES**

GPM	PIPE SIZE (NOMINAL SCH 40 PVC)
9 OR LESS	3/4" φ
15	1" φ
25	1 1/4" φ
35	1 1/2" φ

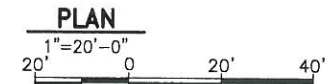
NOTE:  
IRRIGATION PIPING DOWNSTREAM OF THE REMOTE CONTROL UNIT SHALL BE SIZED PER THE CHART ABOVE WHEN NOT INDICATED ON THE PLAN DRAWINGS. REFER TO THE IRRIGATION LEGEND FOR SPRINKLER FLOW RATES (GPM). NO PIPING DOWNSTREAM OF THE REMOTE CONTROL VALVE TO THE SPRINKLER SHALL BE SIZED SMALLER THAN THE SPRINKLER THREADED INLET SIZE.

**IRRIGATION NOTES**

1. THESE NOTES AND IRRIGATION PLAN GOVERN IRRIGATION INSTALLATION ONLY AND ARE NOT INTENDED TO GOVERN OTHER WORK.
2. THE CONTRACTOR SHALL VERIFY LOCATIONS OF POINT OF CONNECTION, MAINLINES, AND PROPOSED CONTROLLERS, PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCY BETWEEN THE DRAWING AND FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE CITY REPRESENTATIVE PRIOR TO THE INSTALLATION OF ANY PIPE.
3. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF AN IRRIGATION SYSTEM THAT PROVIDES 100% COMPLETE AND APPROPRIATE COVERAGE IN ALL PLANTING AREAS. THE WORK OF THE CONTRACT INCLUDES ADJUSTMENTS TO THE SYSTEMS INDICATED, INCLUDING QUANTITIES OF PIPING, HEADS, NOZZLES AND OTHER EQUIPMENT AS NECESSARY TO ASSURE COMPLETE COVERAGE.
4. THE IRRIGATION DRAWINGS ARE DIAGRAMATIC, AND DO NOT SHOW EXACT LOCATIONS OF PIPING, VALVES OR CONTROL LINES. INSTALL THESE ITEMS IN PLANTING AREAS PARALLEL TO, AND AS CLOSE AS POSSIBLE TO CURBS, HEADERS OR PAVING EDGES UNLESS OTHERWISE INDICATED.
5. THE CONTRACTOR SHALL COORDINATE WORK WITH ALL APPROPRIATE TRADES FOR THE INSTALLATION OF PIPING, PIPE SLEEVES AND ELECTRICAL CONDUIT.
6. ALL PIPING AND CONTROL WIRING UNDER PAVING SHALL BE INSTALLED IN SCHEDULE 80 PVC PIPE SLEEVES OF SUFFICIENT SIZE TO ALLOW FOR EASY INSERTION AND REMOVAL.
7. INSTALL EACH SOLENOID VALVE IN A SEPARATE VALVE BOX. SEE DETAILS AND SPECIFICATIONS.
8. IRRIGATION HEADS ARE INDICATED AS ACCURATELY AS POSSIBLE ON THE DRAWING. INSTALL HEADS AS INDICATED BY THE CENTERLINE OF THE SYMBOL AND IN ACCORDANCE WITH INSTALLATION DETAILS.
9. THE PROPOSED CONTROLLER SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS AND LOCATED BY CITY REPRESENTATIVE.



PLOT: EXTENTS  
SCALE: 1:1  
BORDER:  
22,34  
COLOR: No.  
RED 0.70MM  
YELLOW 0.20MM  
GREEN 0.25MM  
CYAN 0.40MM  
BLUE 0.50MM  
MAGENTA 0.20MM  
WHITE 0.35MM  
GRAY 0.15MM  
9 0.15MM  
10 1.00MM  
100 0.50MM  
210 0.50MM



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ELEVATION DATUM  
NAVD88



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NO.	DATE	DESCRIPTION	BY	APP'D

**CONTRACT NO. WD-2668**

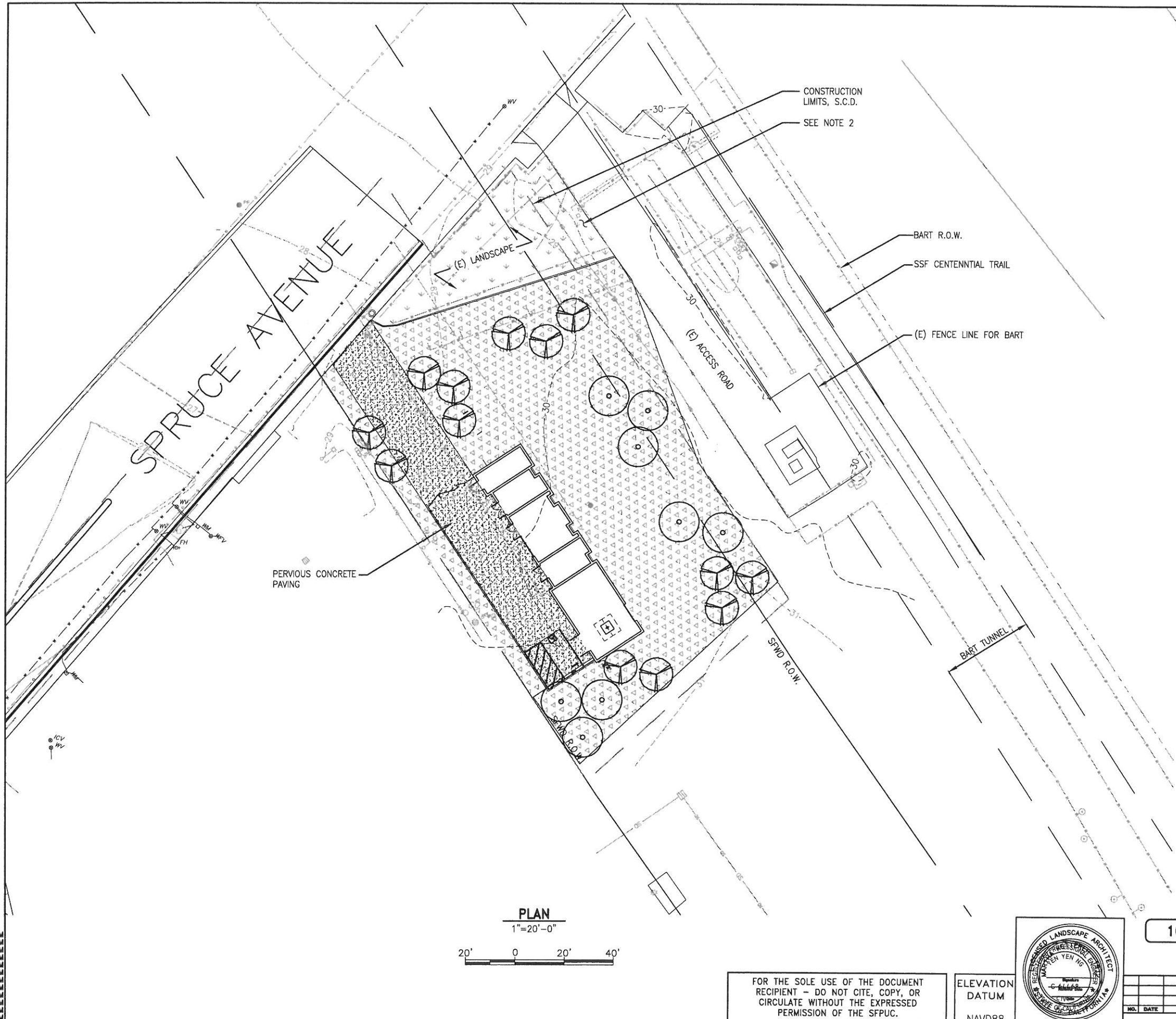
CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
INFRASTRUCTURE DIVISION  
ENGINEERING MANAGEMENT BUREAU

REGIONAL GROUNDWATER STORAGE AND RECOVERY

FUNERAL HOME, SOUTH SAN FRANCISCO  
LOCATION CUP-36-1  
IRRIGATION PLAN

DESIGNED / APPROVED	DRAWN	DF	SCALE AS SHOWN
SECTION MANAGER	DESIGNED	DATE	11/2013
APPROVED	APPROVED		
MANAGER, ENGINEERING MANAGEMENT BUREAU	MANAGER, WATER SUPPLY AND TREATMENT DIVISION		
OF	PLAN NO. L-12.1	SHEET NO. E-	REVISION NO. 0

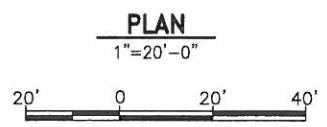




LEGEND			
SYMBOL	PLANT NAME	SIZE	COMMENTS
	PERVIOUS CONCRETE PAVING, SEE SPECS		SEE DETAIL 1, SHEET L-0.1
	NO MOW FESCUE		SEE SPECS
	LIQUIDAMBAR STYRACIFLUA 'FESTIVAL' American Sweetgum	24" BOX	SEE DETAIL 3, SHEET L-0.2
	CERCIS CANADENSIS 'FOREST PANSY' Eastern Redbud	24" BOX	SEE DETAIL 3, SHEET L-0.2

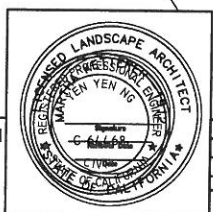
NOTE:  
 1. ALL DISTURBED LANDSCAPE AREAS WITH SLOPES 3:1 OR STEEPER TO RECEIVE EROSION CONTROL, JUTE MESH AND HYDROSEED GRASS, SEE SPECS.  
 2. HYDRO-SEED ALL DISTURBED SOIL AREAS IMPACTED BY CONSTRUCTION.  
 3. COORDINATE ALL WORK WITH PIPELINE DRAWINGS AND MECHANICAL DRAWINGS.  
 4. EXISTING LANDSCAPE AREA TO BE PRESERVED AND PROTECTED BY CONTRACTOR DURING CONSTRUCTION AND LANDSCAPE MAINTENANCE PERIOD. ADJACENT IRRIGATION SYSTEM TO REMAIN IN WORKING CONDITION. CONTRACTOR TO REPAIR AND REPLACE ANY DAMAGE TO ADJACENT LANDSCAPE AREA TO PRE-CONSTRUCTION CONDITIONS.  
 5. S.C.D. FOR LAYOUT INFORMATION

PLOT: EXTENTS  
 SCALE: 1:1  
 BORDER: 22,34  
 COLOR: No.  
 RED 0.70MM  
 YELLOW 0.20MM  
 GREEN 0.25MM  
 CYAN 0.40MM  
 BLUE 0.50MM  
 MAGENTA 0.20MM  
 WHITE 0.35MM  
 GRAY 0.15MM  
 9 0.15MM  
 10 1.00MM  
 100 0.50MM  
 210 0.50MM



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ELEVATION DATUM  
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**100% SUBMITTAL**

NO.	DATE	DESCRIPTION	BY	APP'D
REVISIONS				

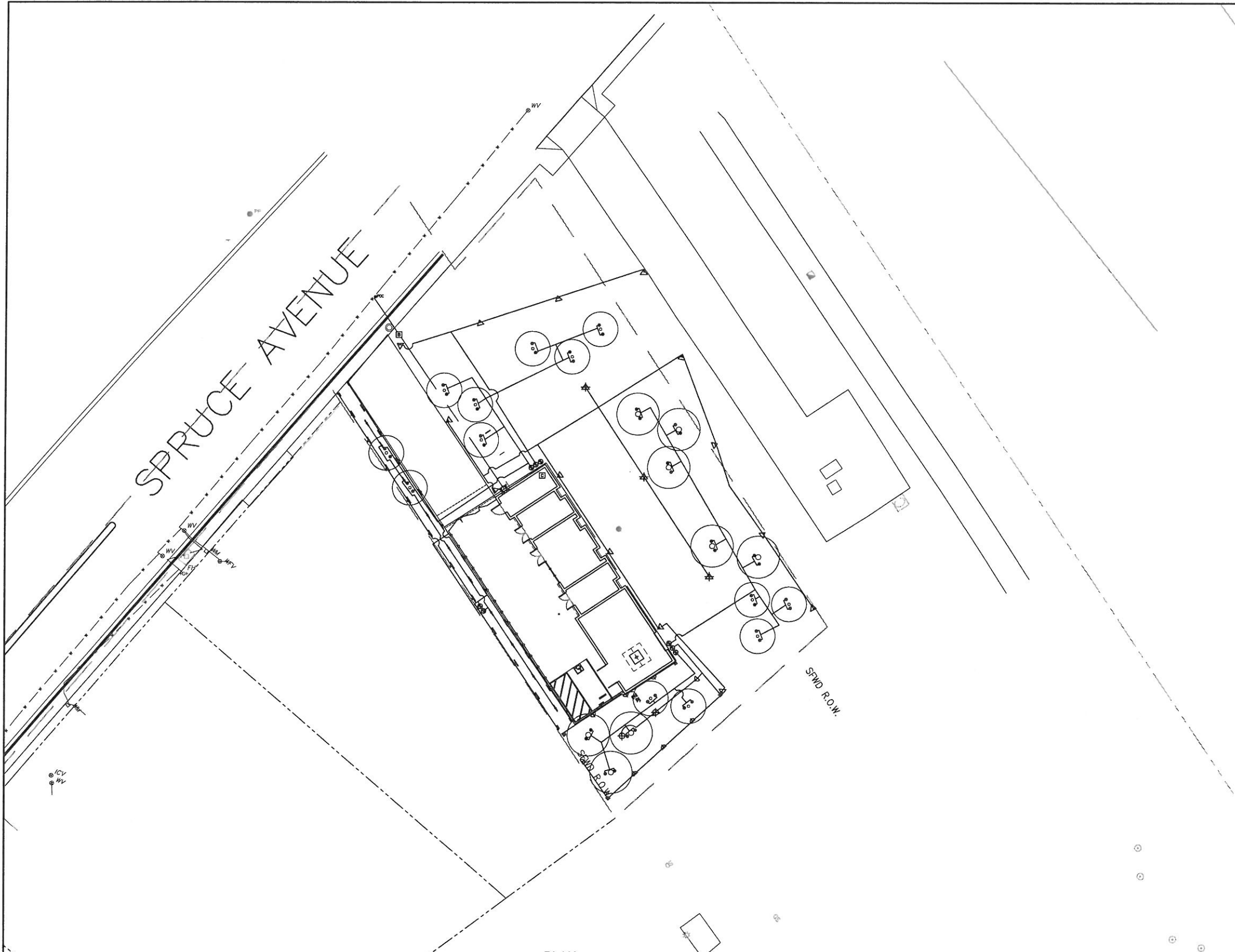
**CONTRACT NO. WD-2668**

CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
 INFRASTRUCTURE DIVISION  
 ENGINEERING MANAGEMENT BUREAU

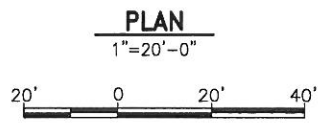
REGIONAL GROUNDWATER STORAGE AND RECOVERY  
 SSF LINEAR PARK, SSF LOCATION CUP-41-4  
**LANDSCAPE PLAN**

DESIGNED / APPROVED	DRAWN	DF	SCALE AS SHOWN
SECTION MANAGER	DESIGNED	DATE	11/2013
APPROVED	APPROVED		
MANAGED, ENGINEERING MANAGEMENT BUREAU	MANAGED, WATER SUPPLY AND TREATMENT DIVISION		
SHEET	PLAN NO.	DRAWING NO.	REVISION NO.
- OF -	L-13.0	E-	0

NOTES:  
 1. FOR IRRIGATION LEGEND AND NOTES, SEE DWG L-13.3  
 2. FOR IRRIGATION DETAILS, SEE SHEET L-17.2

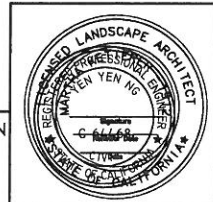


PLOT: EXTENTS  
 SCALE: 1:1  
 BORDER:  
 22,34  
 COLOR: No.  
 RED 0.70MM  
 YELLOW 0.20MM  
 GREEN 0.25MM  
 CYAN 0.40MM  
 BLUE 0.50MM  
 MAGENTA 0.20MM  
 WHITE 0.35MM  
 GRAY 0.15MM  
 9 0.15MM  
 10 1.00MM  
 100 0.50MM  
 210 0.50MM



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NO.	DATE	DESCRIPTION	BY	APPR'D
REVISIONS				

CONTRACT NO. WD-2668

CITY AND COUNTY OF SAN FRANCISCO			
<b>PUBLIC UTILITIES COMMISSION</b>			
INFRASTRUCTURE DIVISION			
ENGINEERING MANAGEMENT BUREAU			
REGIONAL GROUNDWATER STORAGE AND RECOVERY			
SSF LINEAR PARK, SSF LOCATION CUP-41-4			
IRRIGATION PLAN 1			
CHECKED / APPROVED	DRAWN	DATE	SCALE AS SHOWN
SECTION MANAGER	DESIGNED	DATE	11/2013
APPROVED	APPROVED		
MANAGER, ENGINEERING MANAGEMENT BUREAU	MANAGER, WATER SUPPLY AND TREATMENT DIVISION		
SHEET	PLAN NO.	DRAWING NO.	REVISION NO.
- OF -	L-13.1	E-	0

LEGEND									
SYMBOL	MANUF.	DESCRIPTION	EQUAL	SYMBOL	MANUF.	DESCRIPTION	PSI	GPM	DESCRIPTION
---	---	1 1/2" IRRIGATION MAIN LINE: SCH 40 GALV. PIPE, SIZE AS SHOW				CONTROLLER & STATION NUMBER			
---	---	LATERAL LINE: SCH 40 PVC, SIZE AS NOTED BELOW				GPM SIZE			
---	---	SCHEDULE 80 PVC SLEEVE SEE DETAIL X, SHEET X							
	HUNTER	IRRIGATION CONTROLLER, ICC-1200-PL, LOCATED BY ENGINEER IN ELECTRICAL ROOM (SHOWN WITH EQUIPMENT TAG NO.)	NA		RAINBIRD	1812-SAM-PRS-15Q	30	.92	POP-UP SPRAY
	FEBCO	BACKFLOW PREVENTER, 1 1/2", B25Y, INSTALL IN BFDI STAINLESS STEEL COAST GUARDSHACK ENCLOSURE MOD. #CGS-2, OR EQUAL. SEE DETAIL X SHEET X	NA		RAINBIRD	1812-SAM-PRS-15H	30	1.85	POP-UP SPRAY
	SUPERIOR	BRASS REMOTE CONTROL VALVE, 950-DWS, SIZE PER DRAWING	NA		RAINBIRD	1812-SAM-PRS-15F	30	3.70	POP-UP SPRAY
	NIBCO	GATE VALVE: T-113, 1"	RED & WHITE		HUNTER	I-20-06-2.5-35H	35	1.05	35' ROTOR SPRAY
					HUNTER	I-20-06-2.5-35Q	35	.52	35' ROTOR SPRAY
					HUNTER	I-20-06-2.0LA-35F	30	1.6	35' ROTOR SPRAY
					RAINBIRD	1812-SAM-PRS-15CST	30	1.21	4x30 STRIP SPRAY
					RAINBIRD	1812-SAM-PRS-15SST	30	1.21	4x30 STRIP SPRAY
					RAINBIRD	1812-SAM-PRS-15CLS	30	.49	4x15 STRIP SPRAY
					RAINBIRD	1812-SAM-PRS-15CRS	30	.49	4x15 STRIP SPRAY
					RAINBIRD	BUBBLER 1402	30	.50	
					BUCKNER	QUICK COUPLER, MOD. #BUQB44RC-10			
					POC	POINT OF CONNECTION-SEE MECHANICAL DRAWINGS			

### IRRIGATION NOTES

1. THESE NOTES AND IRRIGATION PLAN GOVERN IRRIGATION INSTALLATION ONLY AND ARE NOT INTENDED TO GOVERN OTHER WORK.
2. THE CONTRACTOR SHALL VERIFY LOCATIONS OF POINT OF CONNECTION, MAINLINES, AND PROPOSED CONTROLLERS, PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCY BETWEEN THE DRAWING AND FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE CITY REPRESENTATIVE PRIOR TO THE INSTALLATION OF ANY PIPE.
3. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF AN IRRIGATION SYSTEM THAT PROVIDES 100% COMPLETE AND APPROPRIATE COVERAGE IN ALL PLANTING AREAS. THE WORK OF THE CONTRACT INCLUDES ADJUSTMENTS TO THE SYSTEMS INDICATED, INCLUDING QUANTITIES OF PIPING, HEADS, NOZZLES AND OTHER EQUIPMENT AS NECESSARY TO ASSURE COMPLETE COVERAGE.
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7. INSTALL EACH SOLENOID VALVE IN A SEPARATE VALVE BOX. SEE DETAILS AND SPECIFICATIONS.
8. IRRIGATION HEADS ARE INDICATED AS ACCURATELY AS POSSIBLE ON THE DRAWING. INSTALL HEADS AS INDICATED BY THE CENTERLINE OF THE SYMBOL AND IN ACCORDANCE WITH INSTALLATION DETAILS.
9. THE PROPOSED CONTROLLER SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS AND LOCATED BY CITY REPRESENTATIVE.

### SPRINKLER PIPING SIZES

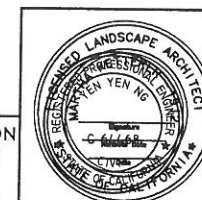
GPM	PIPE SIZE (NOMINAL SCH 40 PVC)
9 OR LESS	3/4" $\phi$
15	1" $\phi$
25	1 1/4" $\phi$
35	1 1/2" $\phi$

NOTE:  
IRRIGATION PIPING DOWNSTREAM OF THE REMOTE CONTROL UNIT SHALL BE SIZED PER THE CHART ABOVE WHEN NOT INDICATED ON THE PLAN DRAWINGS. REFER TO THE IRRIGATION LEGEND FOR SPRINKLER FLOW RATES (GPM). NO PIPING DOWNSTREAM OF THE REMOTE CONTROL VALVE TO THE SPRINKLER SHALL BE SIZED SMALLER THAN THE SPRINKLER THREADED INLET SIZE.

PLOT: EXTENTS  
SCALE: 1:1  
BORDER:  
22,34  
COLOR: No.  
RED 0.70MM  
YELLOW 0.20MM  
GREEN 0.25MM  
CYAN 0.40MM  
BLUE 0.50MM  
MAGENTA 0.20MM  
WHITE 0.35MM  
GRAY 0.15MM  
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100 0.50MM  
210 0.50MM

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ELEVATION  
DATUM  
NAVD88



100% SUBMITTAL

NO.	DATE	DESCRIPTION	BY	APP'D
REVISIONS				

### CONTRACT NO. WD-2668

CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
INFRASTRUCTURE DIVISION  
ENGINEERING MANAGEMENT BUREAU

REGIONAL GROUNDWATER  
STORAGE AND RECOVERY

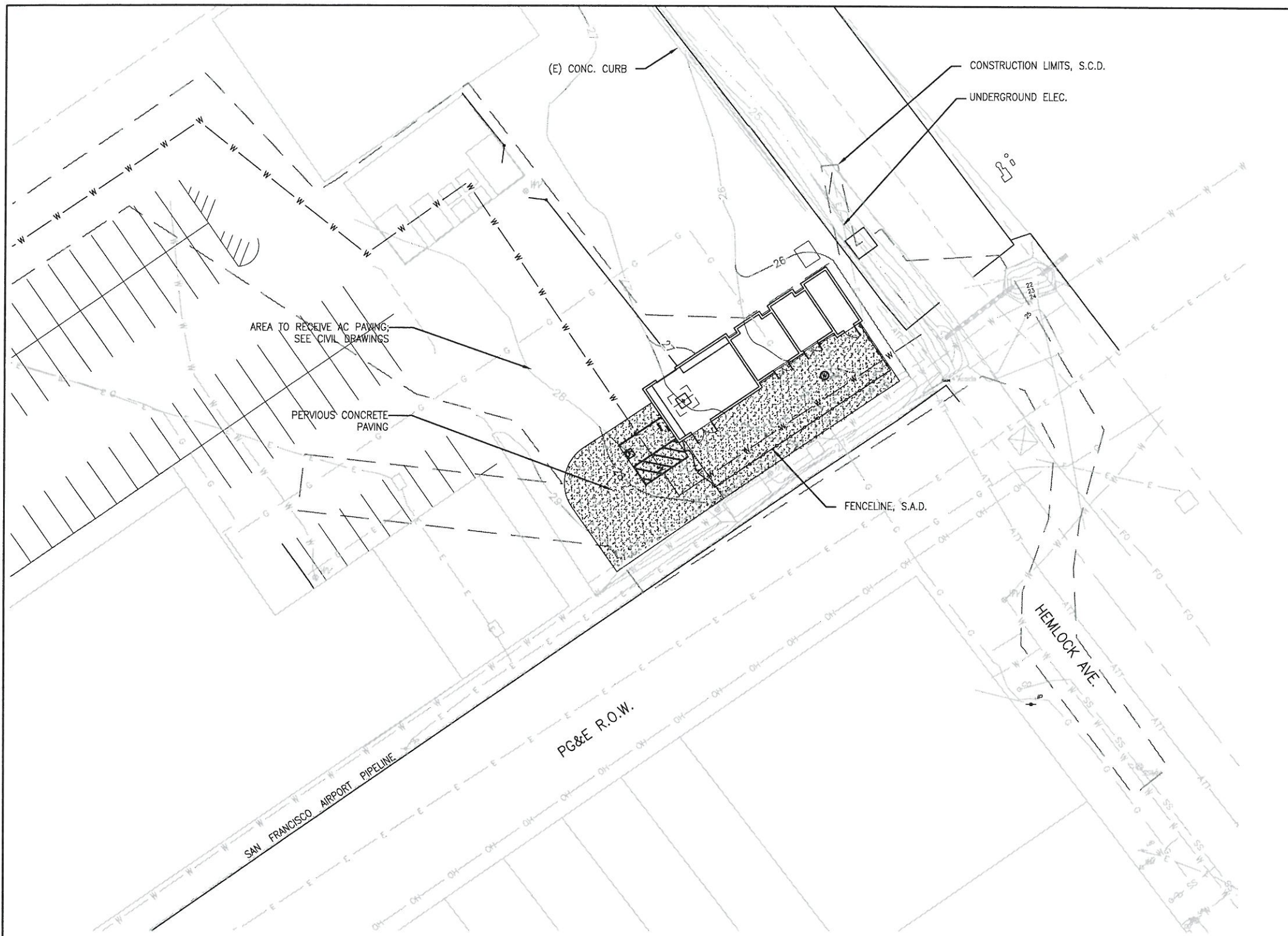
SSF LINEAR PARK, SSF  
LOCATION CUP-41-4  
IRRIGATION NOTES AND LEGEND

CHECKED / APPROVED: [Signature] DRAWN: DF SCALE: AS SHOWN  
SECTION MANAGER: DESIGNED: DATE: 11/2013

APPROVED: APPROVED:

MANAGER, ENGINEERING MANAGEMENT BUREAU MANAGER, WATER SUPPLY AND TREATMENT DIVISION

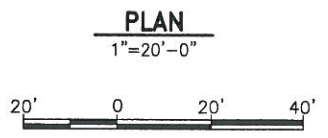
SHEET: - OF - PLAN NO.: L-13.2 DRAWING NO.: E- REVISION NO.: 0



LEGEND		
SYMBOL	PLANT NAME	COMMENTS
	PERVIOUS CONCRETE PAVING, SEE SPECS	SEE DETAIL 1, SHEET L-0.1

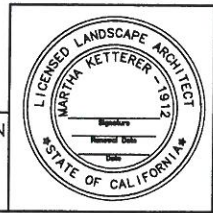
- NOTES:
1. ALL DISTURBED LANDSCAPE AREAS WITH SLOPES 3:1 OR STEEPER TO RECEIVE EROSION CONTROL JUTE MESH AND HYDROSEED GRASS, SEE SPECS.
  2. HYDRO-SEED ALL DISTURBED SOIL AREAS IMPACTED BY CONSTRUCTION.
  3. COORDINATE ALL WORK WITH PIPELINE DRAWINGS AND MECHANICAL DRAWINGS.
  4. S.C.D. FOR LAYOUT INFORMATION

PLOT: EXTENTS  
 SCALE: 1:1  
 BORDER:  
 22,34  
 COLOR: No.  
 RED 0.70MM  
 YELLOW 0.20MM  
 GREEN 0.25MM  
 CYAN 0.40MM  
 BLUE 0.50MM  
 MAGENTA 0.20MM  
 WHITE 0.35MM  
 GRAY 0.15MM  
 9 0.15MM  
 10 1.00MM  
 100 0.50MM  
 210 0.50MM



FOR THE SOLE USE OF THE DOCUMENT RECIPIENT - DO NOT CITE, COPY, OR CIRCULATE WITHOUT THE EXPRESSED PERMISSION OF THE SFPUC.

ELEVATION DATUM  
NAVD88



**100% SUBMITTAL**

NO.	DATE	DESCRIPTION	BY	APPR'D
REVISIONS				

**CONTRACT NO. WD-2668**

CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
 INFRASTRUCTURE DIVISION  
 ENGINEERING MANAGEMENT BUREAU

REGIONAL GROUNDWATER STORAGE AND RECOVERY

MILLBRAE CORP. YARD, MILLBRAE LOCATION CUP-M-1  
**LANDSCAPE PLAN**

CHECKED / APPROVED	DRAWN	DATE	SCALE AS SHOWN
SECTION MANAGER	DRAWN	DATE	11/2013
APPROVED	APPROVED		
MANAGER, ENGINEERING MANAGEMENT BUREAU	MANAGER, WATER SUPPLY AND TREATMENT DIVISION		
OF	PLAN NO. L-16.0	SHEET NO. E-	REVISION NO. 0