ABBREVIATIONS

PORTLAND CEMENT CONCRETE

PACIFIC GAS AND ELECTRIC

POINT OF REVERSE CURVE

POINT OF REVERSE VERTICAL CURVE

POINT OF CONNECTION

POLYVINYL CHLORIDE

RELATIVE COMPACTION

REINFORCED CONCRETE PIPE

SOUTHERN CALIFORNIA EDISON

STORM DRAIN MANHOLE

ROCK SLOPE PROTECTION

PROFILE GRADE

POWER POLE

PROPOSED

PAVEMENT

REQUIRED

RATE, RADIUS

RIGHT-OF-WAY

SOUTHERLY

SCHEDULE

SIDEWALK STREET

STATION

STANDARD

STRAIGHT GRADE

TOP OF CURB

TOP OF GRATE TOP OF PLATFORM

TELEPHONE

TOP OF RAIL TOP OF WALL

TOP OF X

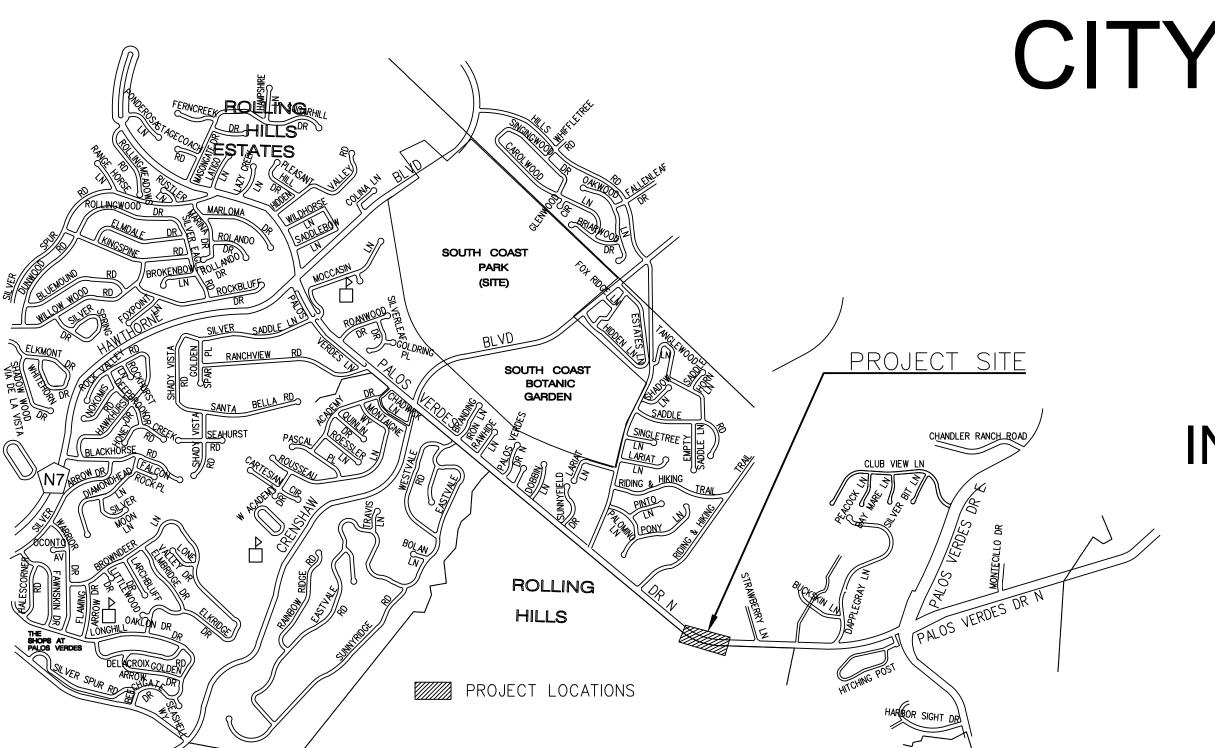
WIDTH, WEST WATER METER

WATER VALVE

VITRIFIED CLAY PIPE

TYPICAL DEPTH

VARIES



CITY OF ROLLING HILLS ESTATES CALIFORNIA CONSTRUCTION PLANS

FOR

INTERSECTION CAPACITY IMPROVEMENTS AT PALOS VERDES DRIVE NORTH AND DAPPLEGRAY SCHOOL ENTRANCE FY 2020-2021

VICINITY MAP

SHEET INDEX SHEET NO.

SHEET NO. 16

SHEET NO. 17

SHEET NO. 18

SHEET NO. 1 TITLE SHEET SHEET NO. 2 TYPICAL SECIONS AND DETAIL STREET IMPROVEMENT PLAN AND PROFILE SHEET NO. 3 SHEET NO. 4 STREET IMPROVEMENT PLAN AND PROFILE SHEET NO. 5 STREET IMPROVEMENT PLAN AND PROFILE SHEET NO. 6 RETAINING WALL PLAN AND PROFILE SHEET NO. 7 RETAINING WALL PLAN AND PROFILE SHEET NO. 8

DESCRIPTION

RETAINING WALL PLAN AND PROFILE SHEET NO. 9 RETAINING WALL PLAN AND PROFILE SHEET NO. 10 RETAINING WALL PLAN AND PROFILE TRAFFIC SIGNAL MODIFICATION PLAN SHEET NO. 11 SHEET NO. 12 TRAFFIC SIGNAL DECORATIVE POLE DETAILS SHEET NO. 13 TRAFFIC SIGNAL FOUNDATION DETAILS

SHEET NO. 14 SIGNING AND STRIPING PLAN SHEET NO. 15 STREET MEDIAN & PARKWAY LANDSCAPE CONSTRUCTION PLAN

> STREET MEDIAN & PARKWAY IRRIGATION PLAN STREET MEDIAN & PARKWAY IRRIGATION LEGEND & NOTES STREET MEDIAN & PARKWAY PLANTING PLAN

SHEET NO. 19 BUS SHELTER DETAILS SHEET NO. 20

BUS SHELTER LAYOUT AND CONSTRUCTION NOTES IRRIGATION DETAILS

SHEET NO. 21 SHEET NO. 22

LANDSCAPE CONSTRUCTION DETAILS

GENERAL CONSTRUCTION NOTES:

1. ALL WORK SHOWN HEREON SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CURRENT

2. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR SUBSTRUCTURES FOUND AT THE SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNERS OF THE UTILITIES OR SUBSTRUCTURES CONCERNED BEFORE STARTING WORK (72-HOURS NOTICE REQUIRED.) PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) TOLL FREE AT 1-800-227-2600.

3. PRIOR TO BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN FOR DISRUPTIVE STREET WORK, INCLUDING CONSTRUCTION SCHEDULE - SUBJECT TO APPROVAL BY THE ENGINEER. MINIMUM REQUIREMENTS ARE STATED IN THE SPECIFICATIONS. CONSTRUCTION WARNING DEVICES, SIGNS, ETC., SHALL CONFORM WITH CALIFORNIA MANUAL

ACCORDANCE WITH PROJECT SPECIFICATIONS



ATTN: BRETT OMMEN, DISTRICT SUPERINTENDENT (310)377-5528 PLANNER: CARDINAL FERNANDEZEES (310)377-5528 ÈMAIL: CFERNANDEZEES@CALWATER.COM

COUNTY SANITATION DISTRICT OF LOS ANGELES COUNTY ATTN: DOUG WALTON (310)638-1161

COX COMMUNICATIONS ATTN: SUSAN SCHUTZMAN (619)266-5605 EMAIL: SUSAN.SCHUTZMAN@COX.COM

LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS ATTN: DARYLL CHENOWETH (626)459 - 9109ÈMAIL: DCHENOWETH@DPW.LACOUNTY.GOV

SOUTHERN CALIFORNIA EDISON ATTN: TAYLOR RUIZE/LOCAL PLANNER (310)783-9426

EMAIL: FRANCISCO.M.MARTINEZ@SCE.COM THE GAS COMPANY ATTN: FAVIOLA OCHOA

(213)808 - 7857EMAIL: FAVIOCHOA@SEMPRAUTILITES.COM

CONSTRUCTION NOTES

(1) REMOVE EXISTING ASPHALT CONCRETE, P.C.C., BASE MATERIAL, AND SUBGRADE

(3) COLDMILL EXISTING AC PAVEMENT 2-INCH DEPTH

(4) CONSTRUCT 2-INCH THICK ASPHALT RUBBER HOT MIX (ARHM) OVERLAY.

(5) CONSTRUCT ROLLED CURB TYPE R-2 PER DETAIL A ON SHEET 2.

(11) CONSTRUCT CROSS AND LONGITUDINAL GUTTER PER SPPWC STD PLAN NO. 122-3

(12) CONSTRUCT 4-INCH THICK P.C.C. RESIDENTIAL DRIVEWAY PER SPPWC STD PLAN NO. 110-2

(3) CONSTRUCT 4-INCH THICK PCC SIDEWALK PER SPPWC STD PLAN NO. 110-2, OVER 6-INCH CAB

(4) CONSTRUCT CURB AND GUTTER PER SPPCW STD PLAN 120-3, TYPE A2-6, W=1'

(15) CONSTRUCT RETAINING WALL PER DETAIL B ON SHEET 9

(16) CONSTRUCT CONCRETE DRAINAGE SWALE BEHIND RETAINING WALL PER SPPWC STD PLAN NO. 621-3

(17) CONSTRUCT RETAINING WALL, TYPE 7A, PER SPPWC STD PLAN NO. 616-3

(18) CONSTRUCT RETAINING WALL, TYPE 5, PER SPPWC STD PLAN NO. 614-3. CASE PER PLAN

19 CONSTRUCT RETAINING WALL, TYPE 5, MODIFIED PER DETAIL HEREON SPPWC STD PLAN NO. 614-3. CASE PER PLAN

CONSTRUCT -INCH THICK PCC BUS PAD INCLUDING 6-INCH MONOLITHIC CURB, 3,250 PSI OVER 6-INCH CAB

(21) COMPACTED NATIVE BACKFILL AT 90% RELATIVE COMPACTION TO A DEPTH OF 12"

(22) CONSTRUCT WALL GUTTER OUTLET TO FACE OF WALL PER SPPWC STD PLAN NO. 617-3

(23) CONSTRUCT WALL GUTTER OUTLET TO CURB PER SPPWC STD PLAN NO. 617-3 AND PLAN No. 150-4

(24) CONSTRUCT CABLE RAILING PER CALTRANS STD B11-47, PER SECTION C-C

P PROTECT IN PLACE.

RELOCATE TYPE AS SHOWN.

RELOCATE BY OTHERS.

REMOVE TYPE AS SHOWN.

ADJUST TO GRADE TYPE AS SHOWN.

ADJUST TO GRADE BY OTHERS.

SEE LANDSCAPE PLANS

SEE SIGNING AND STRIPING PLANS.

SEE TRAFFIC SIGNAL PLANS.

 $(MF)_{\perp}^{W}$ INDICATES MEDIAN FLARE PER SPPWC STD PLAN NO. 141-2

CITY OF ROLLING HILLS ESTATES

TITLE SHEET





ve	BENCH MARK:		REVISIONS			
	NO ELEV	NO.	DESCRIPTION	APP.	DATE	
	DATE ADJQUAD					
	NONE					_
.						_
				1	1 1	

INTERSECTION CAPACITY IMPROVEMENTS AT PALOS VERDES DRIVE NORTH AND DAPPLEGRAY SCHOOL ENTRANCE

DRAWN BY: BR SHT. 1 OF 22 SHTS. DESIGNED BY: BR CHECKED BY: FW

Know what's below. Call before you dig.

ON UNIFORM TRAFFIC CONTROL DEVICES. 4. CONTRACTOR SHALL PROTECT ALL EXISTING PROPERTIES FROM DAMAGE IN

TYRONE PETER RCE No. 81888 DATE

CONSTRUCTION NOTES:

- 1 REMOVE EXISTING ASPHALT CONCRETE, P.C.C., BASE MATERIAL, AND SUBGRADE
- 2 CONSTRUCT 6-INCH THICK AC OVER 10-INCH THICK CAB, SEE TYPICAL SECTION ON SHEET 2..
- (3) COLDMILL EXISTING AC PAVEMENT 2—INCH DEPTH
- (4) CONSTRUCT 2-INCH THICK ASPHALT RUBBER HOT MIX (ARHM) OVERLAY.
- (5) CONSTRUCT ROLLED CURB TYPE R-2 PER DETAIL A ON SHEET 2.
- 6 CONSTRUCT ROLLED CURB TRANSITION PER DETAIL ON SHEET 2.
- 7 CONSTRUCT CURB AND GUTTER PER SPPCW STD PLAN 120-3, TYPE A2-6
- 8 CONSTRUCT CURB PER SPPWC STD PLAN NO. 120-3, TYPE A1-6
- (9) CONSTRUCT 4-INCH AC OVER 4-INCH AB MULTI-USE PATH

TYPICAL STREET SECTION FOR PALOS VERDES DRIVE NORTH

(200')

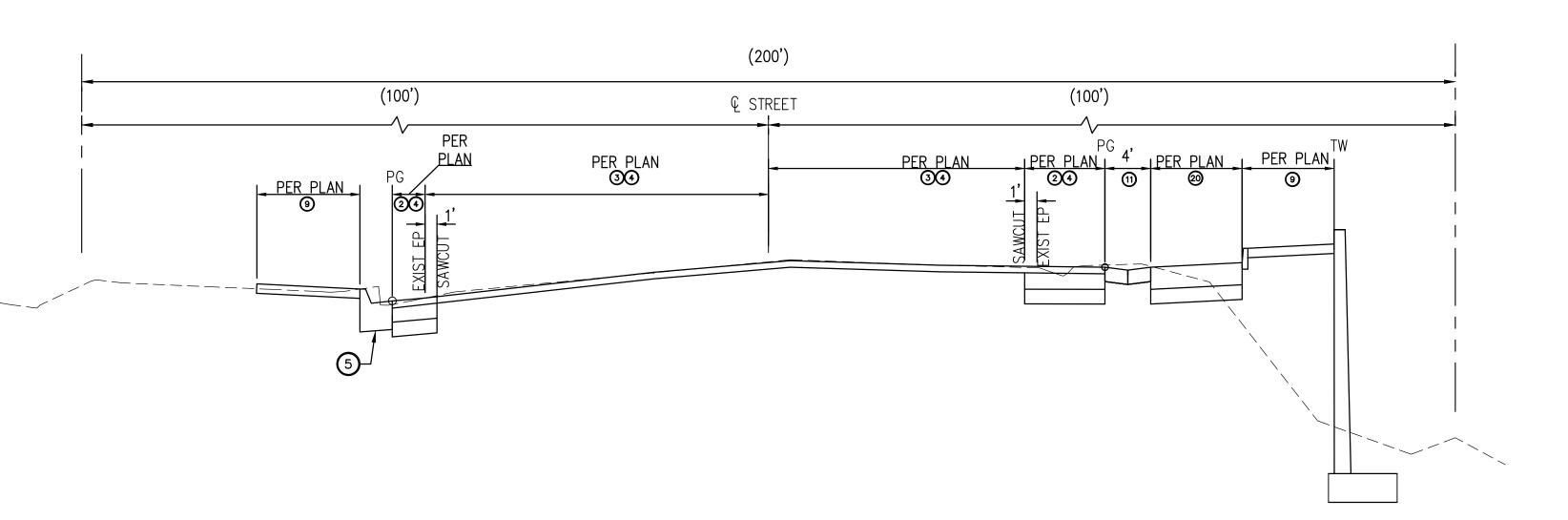
€ STREET

r® 8-

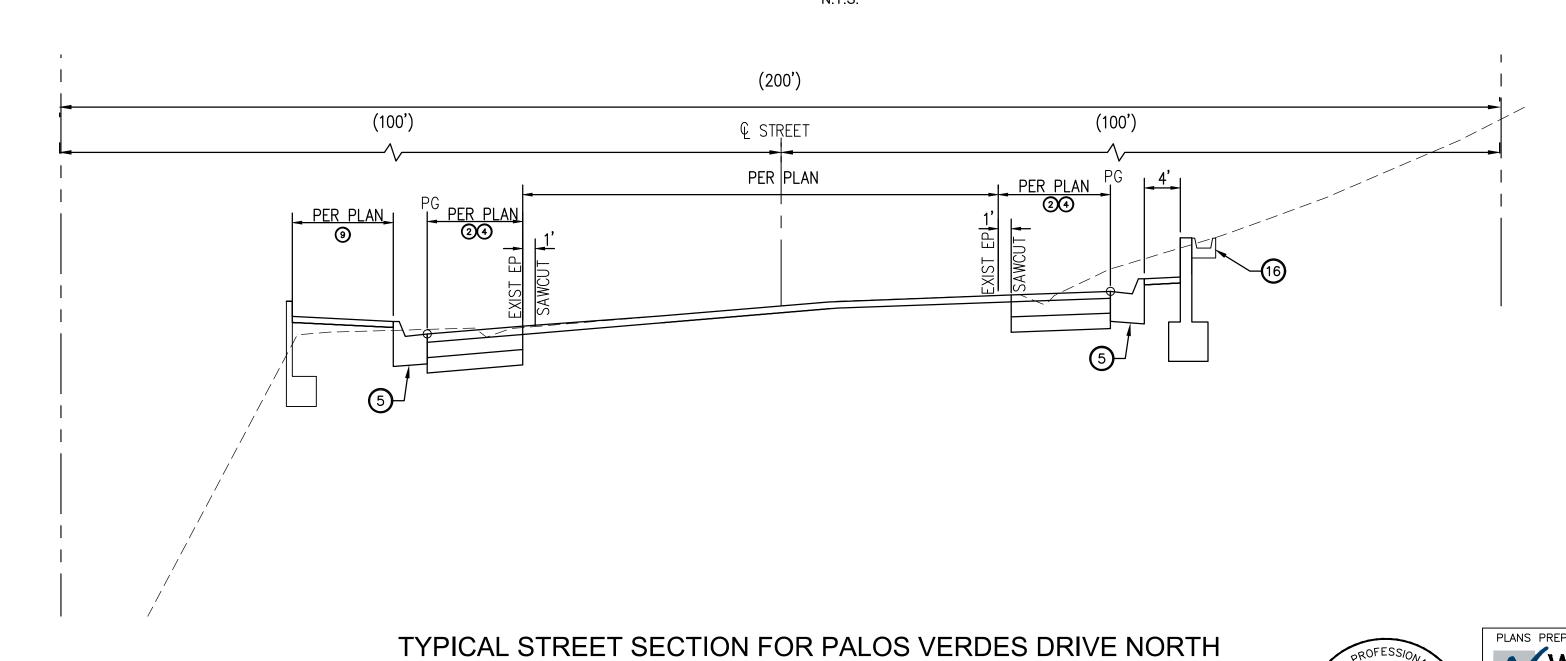
PER PLAN
24

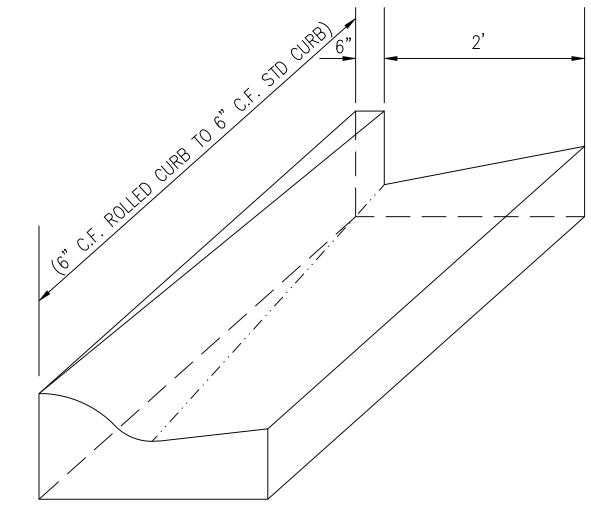
(100')

(100')



TYPICAL STREET SECTION FOR PALOS VERDES DRIVE NORTH





ROLLED CURB TRANSITION DETAIL
NTS

TYPICAL SECTIONS AND DETAIL

INTERSECTION CAPACITY IMPROVEMENTS
AT PALOS VERDES DRIVE NORTH AND DAPPLEGRAY SCHOOL ENTRANCE

DRAWN BY: BR

DESIGNED BY: BR

CHECKED BY: FW

SHT. 2 OF 22 SHTS.

R=14"—

TYPE R-2

ROLLED CURB DETAIL "A"

NTS

CITY OF ROLLING HILLS ESTATES

PLANS PREPARED BY:

WILLDAN | Comprehensive | Innovative | Trusted | Innovative | Trusted | Innovative | Inno

76 — RHE PVDN@DAPPLEGRAY ELM SCHOOL\900—PS&E\901—Plar

TRAFFIC SIGNAL GENERAL NOTES: POLE SCHEDULE POLE LOCATION (SEE DETAIL "A") VEHICLE SIGNAL MOUNTING STANDARD REMARKS LUM. M.A. ø |QUAD| ARROW | Ø |QUAD| ARROW MAST ARM POLE SPECIAL PROVISIONS. MAS-5A, MAS SIGNAL STRUCTURE A SV-3-TB 2' 45' 250W SIGNAL STRUCTURE B SV-1-T SIGNAL STRUCTURE C 250W SV-3-TB **→** | - | 3. NEW SIGNAL HEADS SHALL BE METAL. SIGNAL STRUCTURE D 30' 250W MAS SV-2-TD **→** SIGNAL STRUCTURE B | 6 | S | → | 6 | N | ← | - | - | - | 1., 2. _ _ SIGNAL STRUCTURE C 250W SHALL BE #5, UNLESS SHOWN OTHERWISE. SP-1-T -250W SV-1-T SIGNAL STRUCTURE C

MODIFIED FOUNDATION, SEE DETAILS ON SHEET 13.

TRAFFIC SIGNAL POLES ARE SQUARE DECORATIVE SIGNAL STRUCTURES, SEE DETAILS ON SHEET 12.

■ ALL EQUIPMENT IS NEW

PHASE DIAGRAM GROUP A GROUP B ø2 PROTECTED PERMISSIVE Ø5 SHALL NOT BE RE-SERVICED UNTIL SUCH TIME

Ø2 AND Ø6 HAVE TERMINATED SIMULTANEOUSLY

TRAFFIC SIGNAL AND HIGHWAY LIGHTING EQUIPMENT, SIGNING, AND THE INSTALLATION THEREOF SHALL CONFORM TO CALTRANS STANDARD PLANS AND SPECIFICATIONS, DATED 2018, THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CALIFORNIA MUTCD), DATED 2014, THIS PLAN AND THE

2. NEW VEHICLE INDICATIONS SHALL BE 12" LED RED, LED AMBER AND LED GREEN PER CALTRANS APPROVED SPECIFICATIONS.

NEW CONDUIT SHALL BE MIN. SIZE 2" RIGID STEEL AND NEW PULL BOXES

ALL PEDESTRIAN INDICATIONS SHALL BE LED COUNT-DOWN PEDESTRIAN HEADS (SEE SPECIAL PROVISIONS).

6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND LOCATION OF ALL OVERHEAD AND UNDERGROUND FACILITIES, AND TO PROTECT THEM FROM DAMAGE THE CONTRACTOR SHALL BEAR THE TOTAL EXPENSE OF REPAIR OR REPLACEMENT OF ANY OVERHEAD AND UNDERGROUND FACILITIES DAMAGED DURING CONSTRUCTION.

CONDUCTOR SCHEDULE IS PROVIDED AS AN INSTALLATION GUIDELINE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE CORRECT CONDUCTORS REQUIRED FOR THE INTENDED OPERATION.

8. CONTRACTOR SHALL OBTAIN APPROVAL FROM THE CITY ENGINEER FOR EXACT EQUIPMENT LOCATION PRIOR TO FINAL PLACEMENT.

SURROUNDING.

9. LOCATION OF UNDERGROUND FACILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL POTHOLE TO DETERMINE THE EXACT LOCATION AND VERIFY ALL CONDITIONS ON THE JOBSITE. HAND DIG FOUNDATIONS UNTIL CLEAR OF OBSTRUCTION. COORDINATE POLE INSTALLATION WITH OVERHEAD UTILITY AND SUBSTRUCTURE OWNERS. CONTACT UNDERGROUND SERVICE ALERT AT

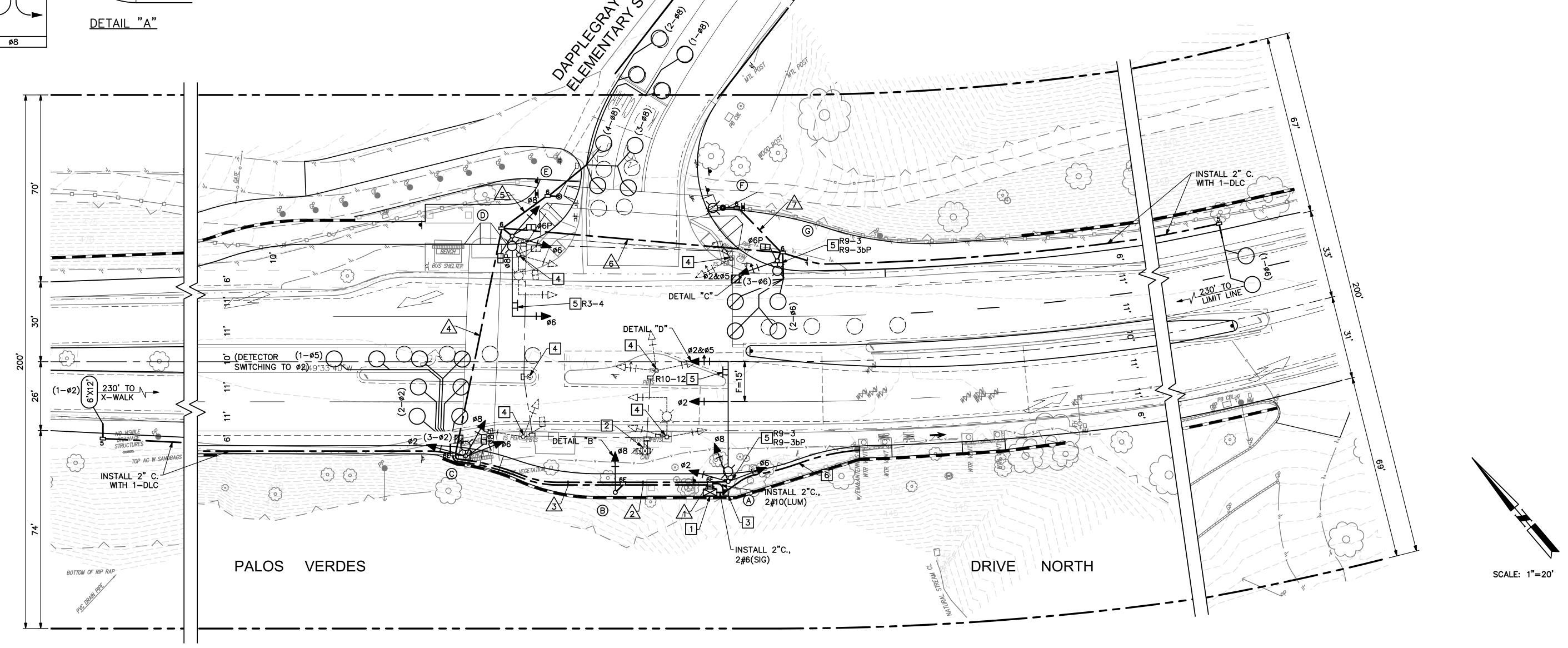
10. ANY MODIFICATION OF OR CHANGES TO APPROVED PLANS MUST BE APPROVED BY THE CITY ENGINEER

11. CONTRACTOR SHALL REPLACE IN-KIND ANY PRIVATE FENCES, WALLS, LAWNS, SHRUBBERY, IRRIGATION, ETC. REMOVED OR DAMAGED TO FACILITATE TRAFFIC SIGNAL INSTALLATION, SIDEWALK, AND CURB CONSTRUCTION. CONTRACTOR SHALL MODIFY AND REPLACE IN-KIND ANY IRRIGATION DAMAGED OR REMOVED BY CONSTRUCTION TO MAINTAIN OPERATION.

12. COORDINATE ELECTRICAL SERVICE DETAILS AND SCHEDULING WITH SOUTHERN CALIFORNIA EDISON. CONTACT MR. RYAN KERBY AT (310) 783-9305.

13. ALL UNUSED AND/OR ABANDONED PULL BOXES AND FOUNDATIONS SHALL BE REMOVED AND THE AFFECTED AREA REPAIRED OR RESTORED TO MATCH

14. INDUCTIVE DETECTOR LOOPS SHALL BE 6' DIAMETER TYPE "E" AND CENTERED IN TRAVEL LANE WITH 10' SPACING BETWEEN LOOPS IN THE DIRECTION OF TRAVEL. LIMIT LINE LOOPS SHALL BE MODIFIED TYPE "D" BICYCLE DETECTOR



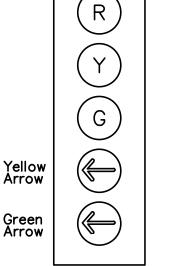
AWG 1 2 3 4 5 6 7 POLE POLE (DLC | Ø8 DETECTOR | 4 | 4 | 4 | 4 | -

10 10 10 7 4 3 -

CONDUCTOR SCHEDULE ▲

CONDUIT SIZE |2-4"|2-4"|2-4"| 4" | 2" | 4" | 2" | 18 | 16 | 14 | 19 | 17 | 8 | 10 ▲ ALL CONDUCTORS AND CONDUIT ARE NEW. SEE GENERAL NOTE NO. 7

DETAIL "C" DETAIL (No Scale) (No Scale)



Yellow Arrow Green Arrow

DETAIL "D'

(No Scale)





JEFFREY LAU, RCE No. 83887

BENCH MARK:			REVISIONS			
NO	ELEV	NO.	DESCRIPTION	APP.	DATE	
	QUAD					
						AT
NONE						
						DR

FOUNDATION SHALL BE 18" ABOVE FINISHED GRADE.

1 INSTALL NEW ECONOLITE TS2 TYPE P CABINET COMPLETE WITH ECONOLITE

PROVIDE THE OPERATION SHOWN. CONSTRUCT NEW FOUNDATION. TOP OF

J ASC/3-2100 CONTROLLER ASSEMBLY, BATTERY BACKUP SYSTEM, GPS ANTENNA, GPS UNIT, AND ALL AUXILIARY EQUIPMENT NECESSARY TO

REMOVE EXISTING TYPE P CONTROLLER CABINET COMPLETE, BATTERY BACKUP

INSTALL 120/240V TYPE III-BF ELECTRICAL SERVICE ENCLOSURE WITH 1-100 AMP METER, PROVIDE 1-50 AMP BREAKER FOR METERED SIGNAL,

AND 1-30AMP BREAKER FOR UNMETERED LUMINAIRES. LOCATE ENCLOSURE A MINIMUM OF 6' FROM THE CONTROLLER CABINET AND

CONSTRUCTION NOTES:

AND TYPE II SERVICE CABINET

POWER POLE.

CITY OF ROLLING HILLS ESTATES

6 INSTALL 3" SCHEDULE 80 PVC CONDUIT WITH PULL ROPE AND REUSE

INSTALLATION WITH EDISON SERVICE PLANNER RYAN KERBY AT (310)

EXISTING SERVICE RISER PER SCE REQUIREMENTS. COORDINATE

TRAFFIC SIGNAL MODIFICATION PLAN

783-9305 48 HOURS PRIOR TO CONSTRUCTION.

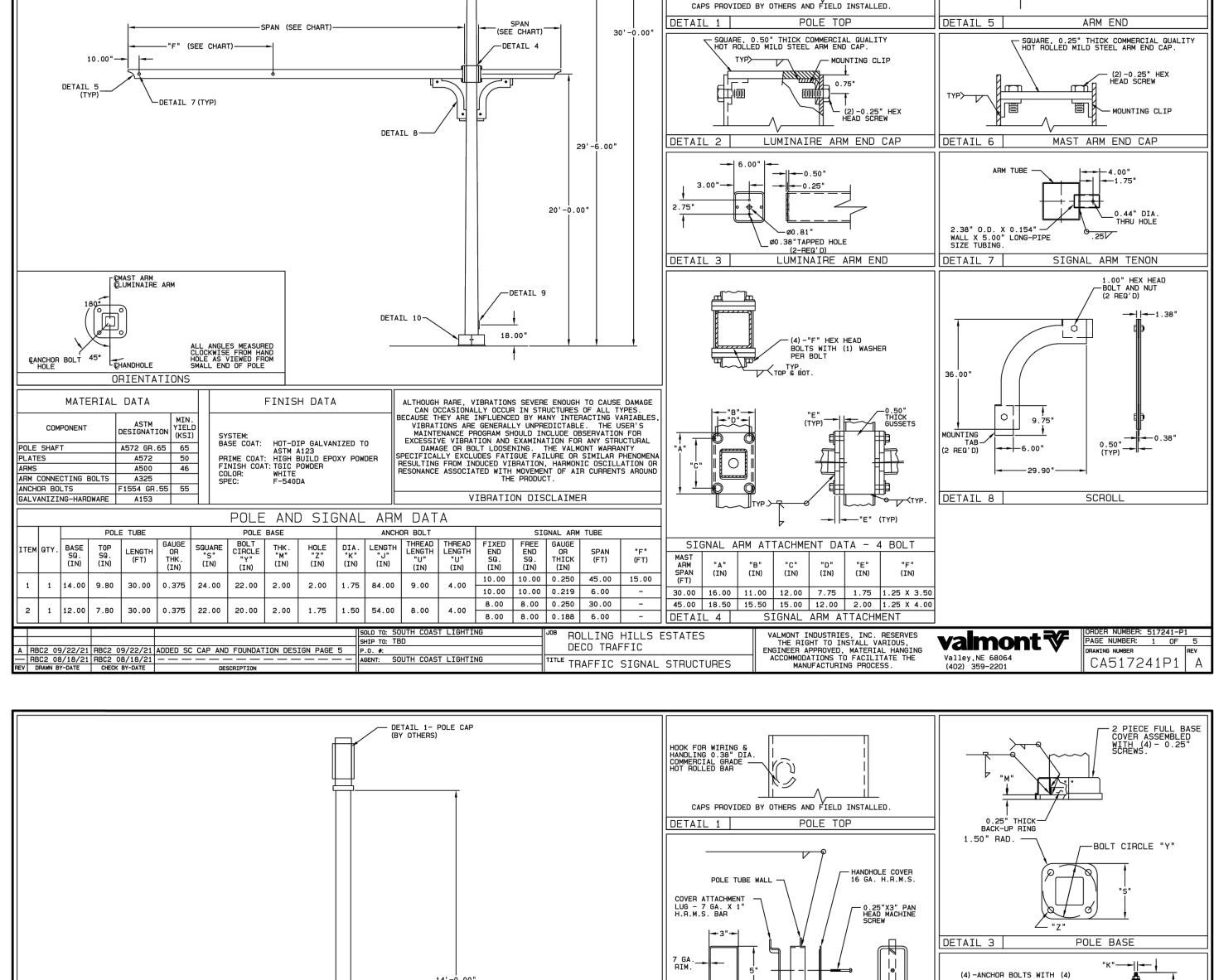
INTERSECTION CAPACITY IMPROVEMENTS T PALOS VERDES DRIVE NORTH AND DAPPLEGRAY SCHOOL ENTRANCE

DRAWN BY: RG/KC	
DESIGNED BY: RG/KC	SHT. 11 OF 22 SHTS.
CHECKED BY: JL	

4 REMOVE EXISTING POLE COMPLETE.

5 INSTALL SIGN(S) AS SHOWN.



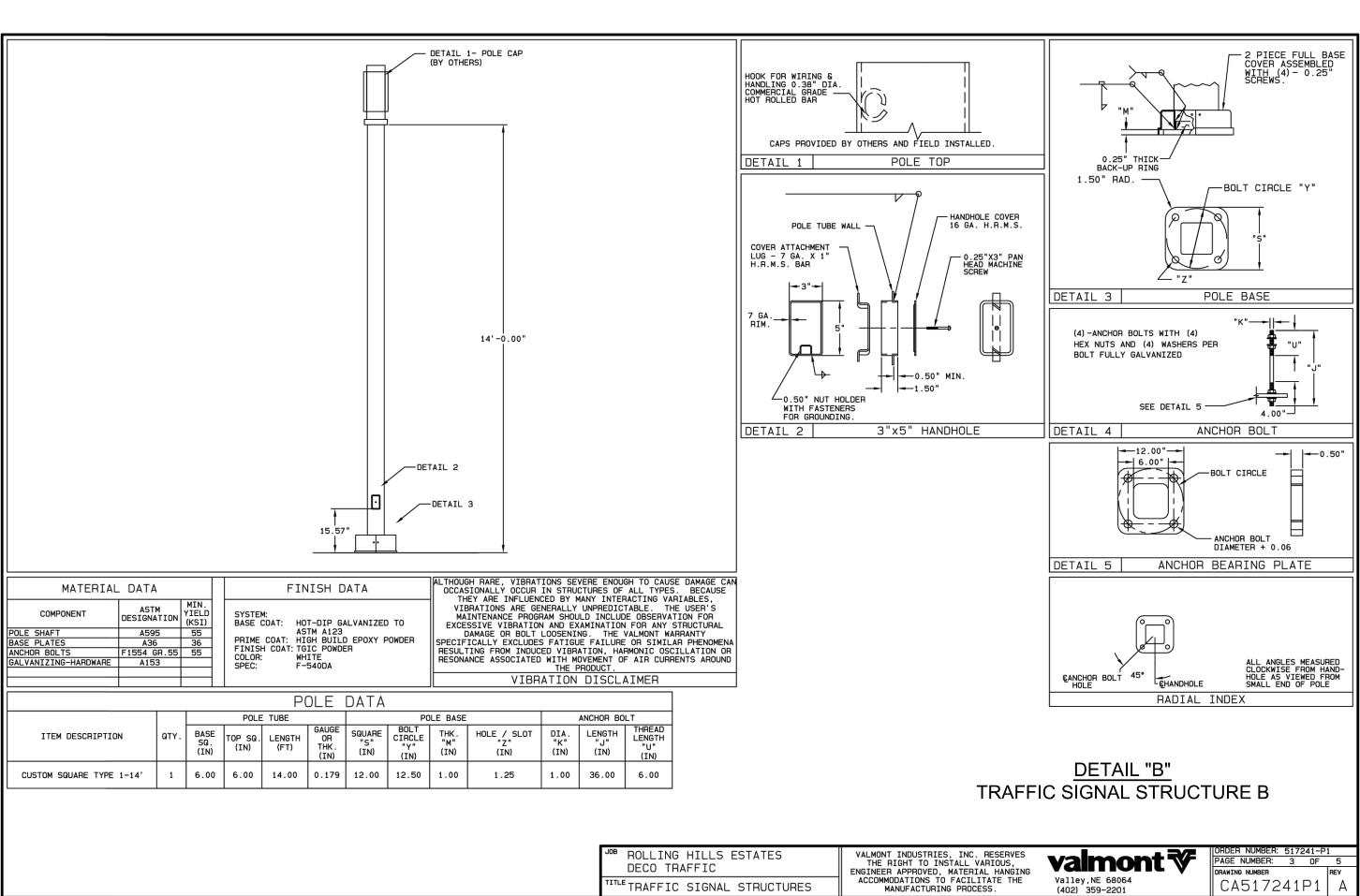


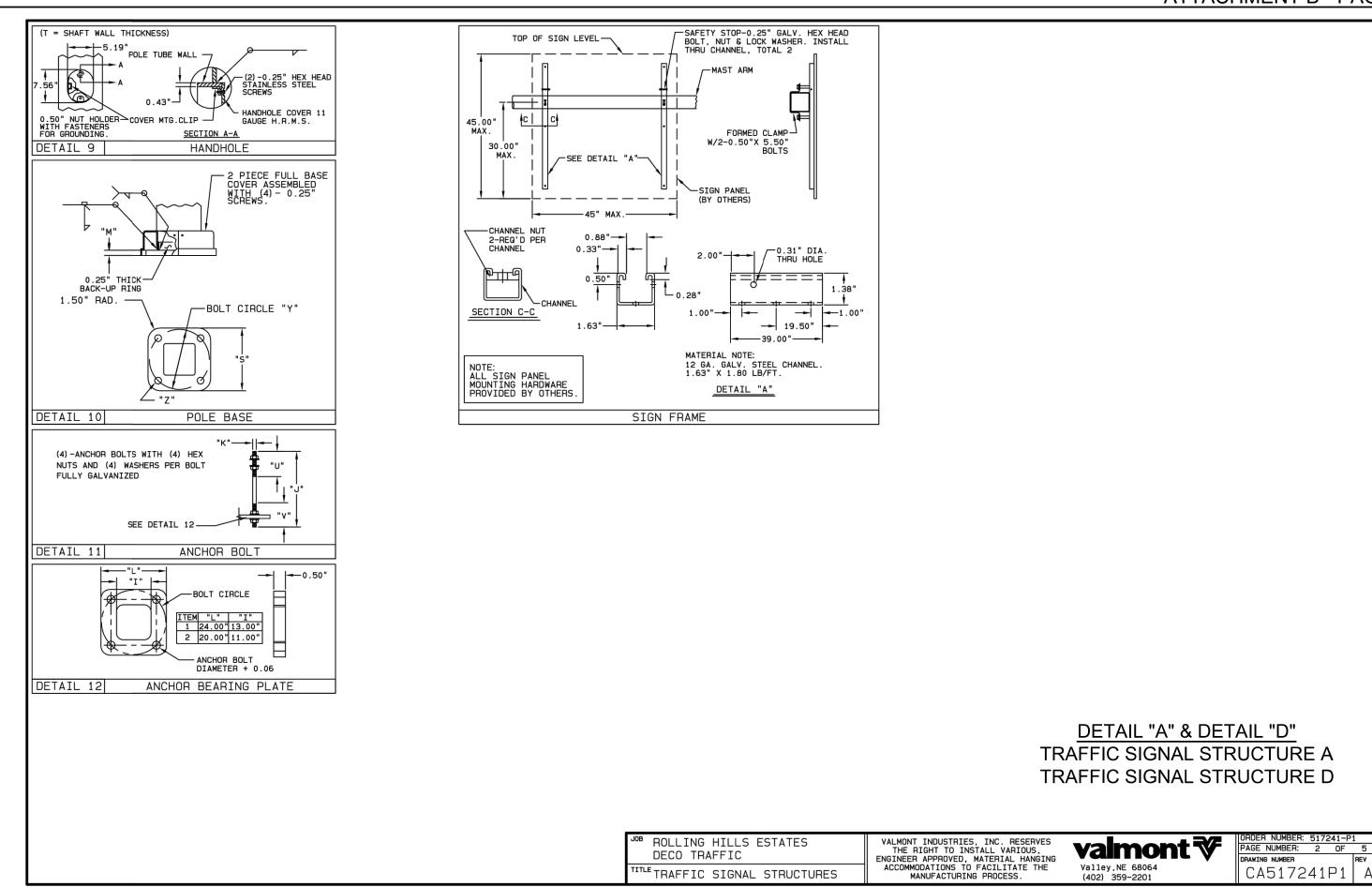
__DETAIL 1- POLE CAP

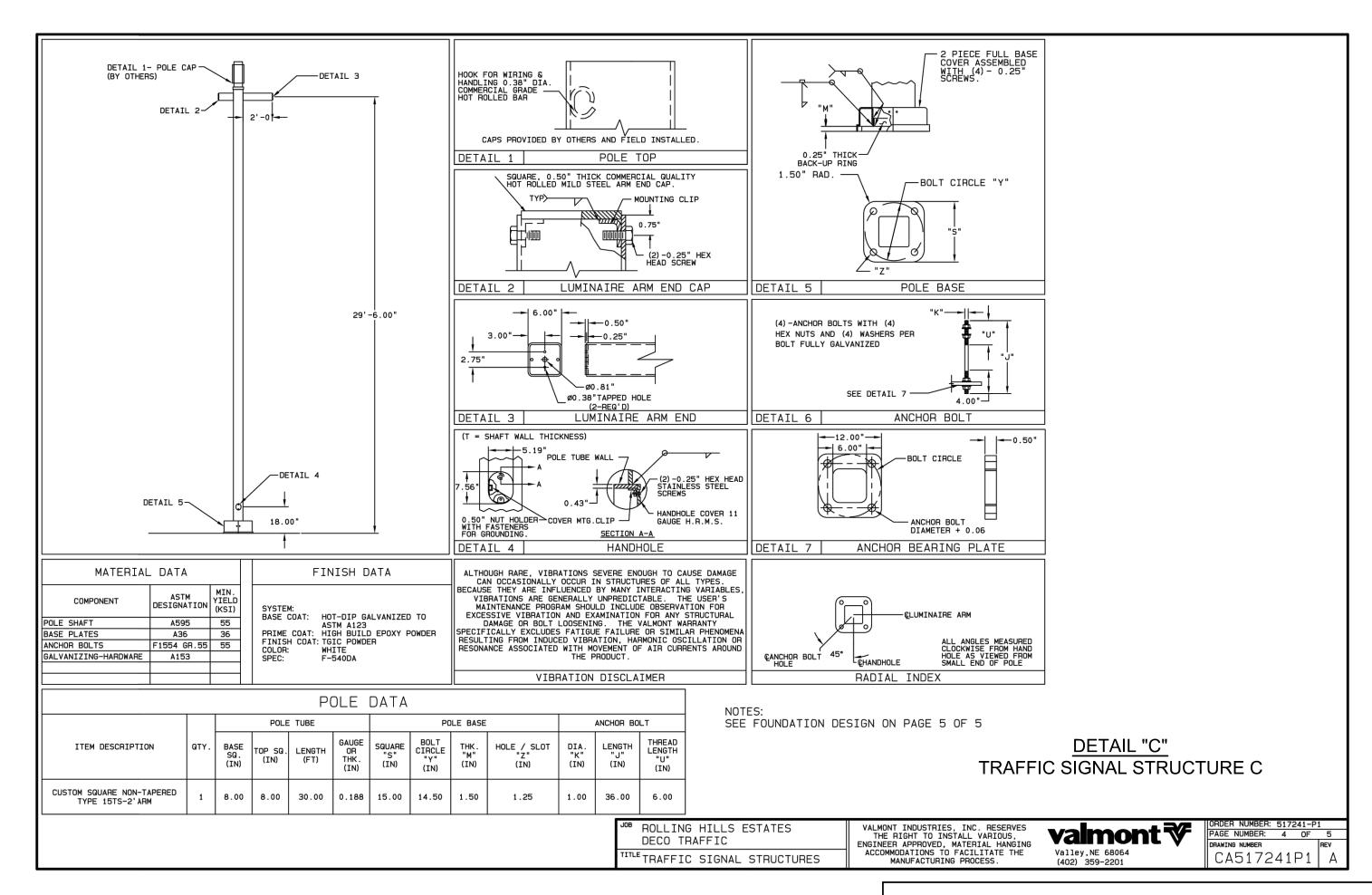
─DETAIL 2

DETAIL "A" & DETAIL "D"

TRAFFIC SIGNAL STRUCTURE A TRAFFIC SIGNAL STRUCTURE D







REVISIONS

DESCRIPTION

ELEV.

_ QUAD.

NONE

DATE ADJ. ___

CITY OF ROLLING HILLS ESTATES

TRAFFIC SIGNAL **DECORATIVE POLE DETAILS**

INTERSECTION CAPACITY IMPROVEMENTS AT PALOS VERDES DRIVE NORTH AND DAPPLEGRAY SCHOOL ENTRANCE

DRAWN BY: BR SHT. 12 OF 22 SHTS. DESIGNED BY: BR CHECKED BY: FW

LAPP. LDATE L

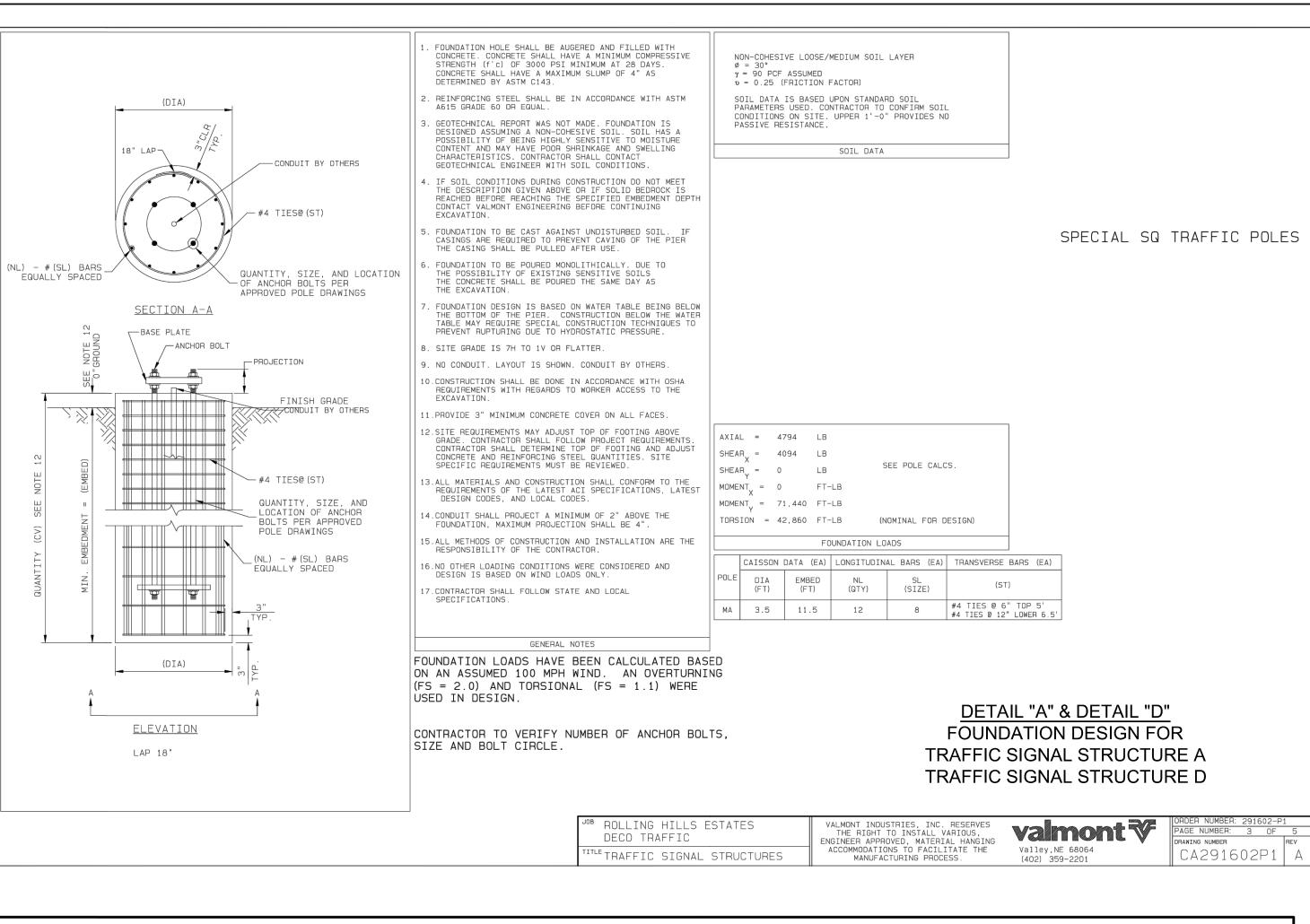


VETAIL 6



JEFFREY LAU, RCE No. 83887

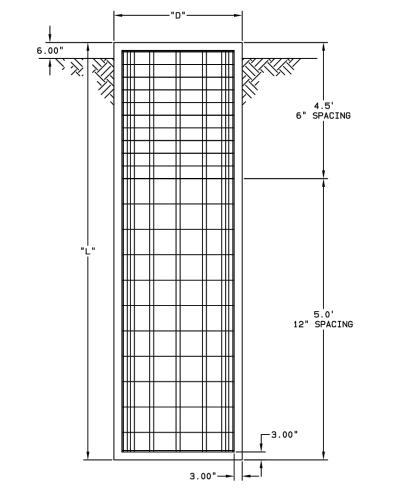
SPECIAL SQ TS POLES



FOUNDATION SIZE (S)									
	CA	CAISSON DATA (EA)			AL BARS (EA)	TRANSVERSE BARS (EA)			
POLE NO.	DIAMETER "D" (FT)	LENGTH "L" (FT)	CONCRETE STRENGTH (PSI)	QUANTITY	SIZE	SIZE			
30'TS Pole	2.5	9.5	4000	10	#6	#3			
		l		l					

GENERAL NOTES:

- 1. REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM A615 GRADE 60 OR EQUAL.
- 2. FOUNDATION TO BE CAST AGAINST UNDISTURBED SOIL.
- 3. FOUNDATION TO BE POURED MONOLITHICALLY. 4. FOUNDATION DESIGN BASED ON WATER TABLE BEING BELOW THE BOTTOM OF THE PIER. IF WATER TABLE IS ENCOUNTERED AT TIME OF EXCAVATION, CONSULT A **GEOTECH ENGINEER.**
- 5. SITE GRADE IS 7H TO 1V OR FLATTER. 6. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO
- THE REQUIREMENTS OF THE LATEST ACI, LOCAL, AND
- STATE CODES. 7. ALL METHODS OF CONSTRUCTION AND INSTALLATION ARE
- THE RESPONSIBILITY OF THE CONTRACTOR. 8. DESIGN BASED ON A LOOSE SANDY SOIL USING
- STANDARD SOIL PARAMETERS 9. ANCHOR BOLT INFORMATION CAN BE FOUND IN VALMONT CALCULATIONS DATED 09/13/2021.



DETAIL "C" FOUNDATION DESIGN FOR TRAFFIC SIGNAL STRUCTURE C

B ROLLING HILLS ESTATES 30' SPCL TS POLE	VALMONT INDUSTRIES, INC. RESERVES THE RIGHT TO INSTALL VARIOUS, ENGINEER APPROVED, MATERIAL HANGING	valmont ▼	ORDER NUMBER: 517241-P1 PAGE NUMBER: 5	\exists
TLE FOUNDATION DESIGN	ACCOMMODATIONS TO FACILITATE THE MANUFACTURING PROCESS.	Valley,NE 68064 (402) 359-2201	CA517241P1 A	7

	PLANS PREPARED BY:		
OFESS/ONAL	WILLDAN Engineering	Comprehensive Innovative Trusted	
No. 83887 P. 09-30-21 ★	13191 CROSSROADS PARKWAY NORT SUITE 405 INDUSTRY, CA 91746-34 (562) 908-6200 UNDER THE SUPERVISION OF		
CIVIL			

JEFFREY LAU, RCE No. 83887

BENCH MARK:		REVISIONS		
NO ELEV	NO.	DESCRIPTION	APP.	DATE
DATE ADJQUAD				
NONE				

CITY OF ROLLING HILLS ESTATES

TRAFFIC SIGNAL **FOUNDATION DETAILS**

INTERSECTION CAPACITY IMPROVEMENTS

SHT. 13 OF 22 SHTS.

AT PALOS VERDES DRIVE NORTH AND DAPPLEGRAY SCHOOL ENTRANCE DRAWN BY: BR

DESIGNED BY: BR

CHECKED BY: FW

-- PROJECTION 9. NO CONDUIT. LAYOUT IS SHOWN. CONDUIT BY OTHERS. 10.CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH OSHA REQUIREMENTS WITH REGARDS TO WORKER ACCESS TO THE 1.PROVIDE 3" MINIMUM CONCRETE COVER ON ALL FACES. 12.SITE REQUIREMENTS MAY ADJUST TOP OF FOOTING ABOVE GRADE. CONTRACTOR SHALL FOLLOW PROJECT REQUIREMENTS. CONTRACTOR SHALL DETERMINE TOP OF FOOTING AND ADJUST CONCRETE AND REINFORCING STEEL QUANTITIES. SITE SPECIFIC REQUIREMENTS MUST BE REVIEWED. -#3 TIES@(ST) 13.ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST ACI SPECIFICATIONS, LATEST MOMENT = 0 FT-LB QUANTITY, SIZE, AND LOCATION OF ANCHOR
BOLTS PER APPROVED 4.CONDUIT SHALL PROJECT A MINIMUM OF 2" ABOVE THE POLE DRAWINGS 15.ALL METHODS OF CONSTRUCTION AND INSTALLATION ARE THE RESPONSIBILITY OF THE CONTRACTOR. (NL) - #(SL) BARS 16.NO OTHER LOADING CONDITIONS WERE CONSIDERED AND DESIGN IS BASED ON WIND LOADS ONLY. EQUALLY SPACED (DIA) ELEVATION LAP 14"

SECTION A-A

-ANCHOR BOLT

-BASE PLATE

(NL) - #(SL) BARS

— #3 TIES@(ST)

QUANTITY, SIZE, AND LOCAT — OF ANCHOR BOLTS PER

APPROVED POLE DRAWINGS

7.CONTRACTOR SHALL FOLLOW STATE AND LOCAL TS 2.5 7.5 8 6 #3 TIES @ 6" TOP 3.5' #3 TIES @ 12" LOWER 4' FOUNDATION LOADS HAVE BEEN CALCULATED BASED ON AN ASSUMED 100 MPH WIND. AN OVERTURNING (FS = 2.0) AND TORSIONAL (FS = 1.1) WERE USED IN DESIGN. **DETAIL "B"** FOUNDATION DESIGN FOR CONTRACTOR TO VERIFY NUMBER OF ANCHOR BOLTS. SIZE AND BOLT CIRCLE. TRAFFIC SIGNAL STRUCTURE B

AXIAL = 973 LB SHEAR, = 1,383 LB

SHEAR = 0 LB

MOMENT, = 14,616 FT-LB

TORSION = 1,725 FT-LB

NON-COHESIVE LOOSE/MEDIUM SOIL LAYER

SOIL DATA IS BASED UPON STANDARD SOIL PARAMETERS USED. CONTRACTOR TO CONFIRM SOIL CONDITIONS ON SITE. UPPER 1'-0" PROVIDES NO PASSIVE RESISTANCE.

SOIL DATA

v = 0.25 (FRICTION FACTOR)

FOUNDATION HOLE SHALL BE AUGERED AND FILLED WITH CONCRETE. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 3000 PSI MINIMUM AT 28 DAYS. CONCRETE SHALL HAVE A MAXIMUM SLUMP OF 4" AS

REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM A615 GRADE 60 OR EQUAL.

B. GEOTECHNICAL REPORT WAS NOT MADE. FOUNDATION IS DESIGNED ASSUMING A NON-COHESIVE SOIL. SOIL HAS A POSSIBILITY OF BEING HIGHLY SENSITIVE TO MOISTURE CONTENT AND MAY HAVE POOR SHRINKAGE AND SWELLING CHARACTERISTICS. CONTRACTOR SHALL CONTACT GEOTECHNICAL ENGINEER WITH SOIL CONDITIONS.

IF SOIL CONDITIONS DURING CONSTRUCTION DO NOT MEET
THE DESCRIPTION GIVEN ABOVE OR IF SOLID BEDROCK IS
REACHED BEFORE REACHING THE SPECIFIED EMBEDMENT DEPTH
CONTACT VALMONT ENGINEERING BEFORE CONTINUING

. FOUNDATION TO BE CAST AGAINST UNDISTURBED SOIL. IF CASINGS ARE REQUIRED TO PREVENT CAVING OF THE PIER THE CASING SHALL BE PULLED AFTER USE.

7. FOUNDATION DESIGN IS BASED ON WATER TABLE BEING BELOW THE BOTTOM OF THE PIER. CONSTRUCTION BELOW THE WATER TABLE MAY REQUIRE SPECIAL CONSTRUCTION TECHNIQUES TO PREVENT RUPTURING DUE TO HYDROSTATIC PRESSURE.

FOUNDATION TO BE POURED MONOLITHICALLY. DUE TO THE POSSIBILITY OF EXISTING SENSITIVE SOILS THE CONCRETE SHALL BE POURED THE SAME DAY AS

8. SITE GRADE IS 7H TO 1V OR FLATTER.

DESIGN CODES, AND LOCAL CODES.

FOUNDATION, MAXIMUM PROJECTION SHALL BE 4"

VALMONT INDUSTRIES, INC. RESERVES THE RIGHT TO INSTALL VARIOUS, ENGINEER APPROVED, MATERIAL HANGING ACCOMMODATIONS TO FACILITATE THE MANUFACTURING PROCESS. valmont **₹** ROLLING HILLS ESTATES GE NUMBER: 5 DECO TRAFFIC RAWING NUMBER Vallev.NE 68064 CA291602P1 ^{LE}TRAFFIC SIGNAL STRUCTURES

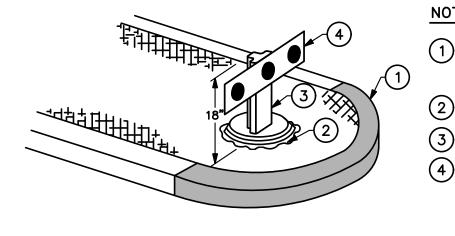
SEE POLE CALCS.

(NOMINAL FOR DESIGN)

CAISSON DATA (FA) LIONGITUDINAL BARS (FA) | TRANSVERSE BARS (FA)

SIGNING AND STRIPING GENERAL NOTES: 1. TRAFFIC SIGNING AND STRIPING, LOOP REPLACEMENT, AND THE INSTALLATION THEREOF SHALL CONFORM TO CALTRANS REVISED STANDARD PLANS AND SPECIFICATIONS, DATED 2018, THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CALIFORNIA MUTCD), LATEST EDITION, THIS PLAN AND THE SPECIAL PROVISIONS. 2. ALL STRIPING DETAILS SHALL BE PER CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CALIFORNIA MUTCD), LATEST EDITION. 3. ALL STRIPING DETAILS AND PAVEMENT LEGENDS SHALL BE PAINT, THREE COATS, UNLESS OTHERWISE SHOWN. 4. INSTALL TWO—WAY BLUE REFLECTIVE MARKERS AT EVERY FIRE HYDRANT. 5. ALL SCHOOL SIGNS MUST BE FLUORESCENT YELLOW—GREEN (FYG). 6. SIGN POSTS FOR STREET NAME SIGNS, TRAIL SIGNS, AND MULTI—USE PATH SIGNS SHALL BE BROWN. 7. UNLESS OTHERWISE SHOWN, BIKE LANE STRIPE SHALL BE 4' FROM EDGE OF GUTTER. SEE DETAIL "C."

50' TYPE G 6" (TYP.) DIR. OF TRAVEL 4" WHITE STRIPE DETAIL "A" NO. SOALE



INSTALL HIGH REFLECTIVITY PAINT TO MATCH EXISTING COLOR ON CURB FACE. EXTEND PAINT ON TOP OF CURB AND CURB FACE TO BC, EC, OR END OF FLARE.

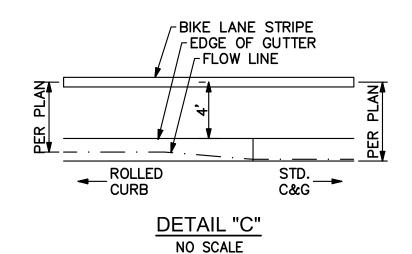
2 EPOXY

DETAIL "B"

NO SCALE

3 SERIES 400 REPO POST.(18")

4 TYPE K MARKER.



8. PAVEMENT MARKINGS AND TRAFFIC LINE DETAILS SHALL BE PER THE 2010 CALTRANS STANDARD PLAN DETAILS.

SIGNING AND STRIPING CONSTRUCTION NOTES:

1 PAINT STRIPING DETAIL OR PAVEMENT MARKING AS SHOWN.

PAINT 12" YELLOW CROSSWALK. CROSSWALK SHALL BE 12' IN WIDTH (INSIDE TO INSIDE) UNLESS OTHERWISE SHOWN.

3 PAINT 12" WHITE LIMIT LINE.

4 PAINT "BIKE", "LANE" AND BIKE LANE ARROW PAVEMENT LEGEND.

E REMOVE CONFLICTING STRIPING BY WET SANDBLASTING, INCLUDING RAISED PAVEMENT MARKINGS.

BRIDLE TRAIL

6 PAINT MEDIAN NOSE CURB WITH YELLOW REFLECTIVE CURB PAINT PER DETAIL "B."

© DET 39 1\

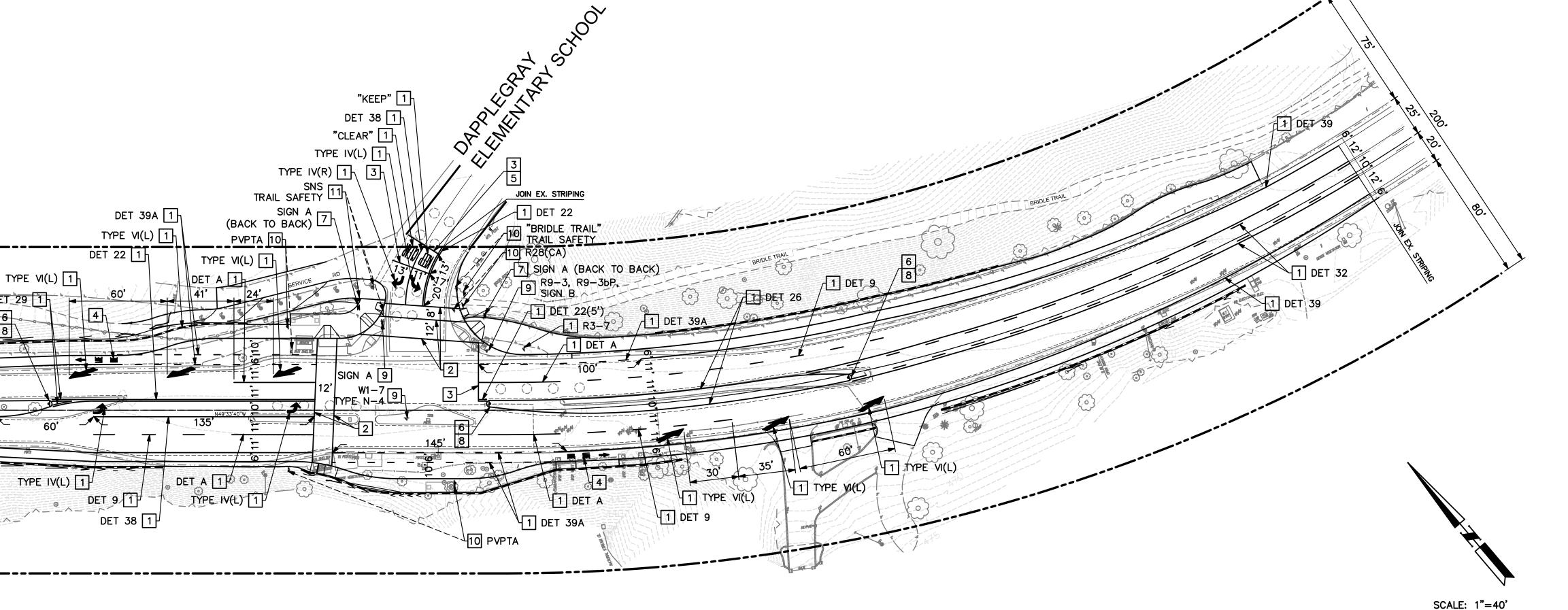
7 INSTALL SIGN AND POST AS SHOWN.

8 INSTALL SIGN AND POST AS SHOWN PER DETAIL "B."

9 REMOVE SIGN AND POST AS SHOWN.

10 RELOCATE SIGN AND POST AS SHOWN.

11 RELOCATE SIGN ON NEW POST AS SHOWN.



PALOS VERDES

DRIVE NORTH

NO HORSES
ON BIKE PATH
R.H.E. MC XXX

BICYCLE PROHIBITED
ON HORSE TRAIL
R.H.E. MC XXX

SIGN A

NO PED XING SIGN B





JEFFREY LAU, RCE No. 83887 DATE

						l
e	BENCH MARK:		REVISIONS			
	NO ELEV	NO.	DESCRIPTION	APP.	DATE	
	DATE ADJQUAD					
						ΛТ
	NONE					ΙAΤ
						DR
ı						DE

SIGNING AND STRIPING PLAN

CITY OF ROLLING HILLS ESTATES

INTERSECTION CAPACITY IMPROVEMENTS AT PALOS VERDES DRIVE NORTH AND DAPPLEGRAY SCHOOL ENTRANCE

DRAWN BY: RG/KC

DESIGNED BY: RG/KC

CHECKED BY: JL

SHT. 14 OF 22 SHTS.



SHT. 15 OF 22 SHTS. CHECKED BY: JH

IRRIGATION LEGEND

SYM	DESCRIPTION	MANUF.	MODEL	REMAR	KS	DET.	PLN. NO.
[M]	EX. POTABLE WATER METER	PER UTILITY	-	SEE IRRIGATION CONSTRUC	CTION NOTE NO. 1	-	-
#	AMBIENT LIGHT POWERED IRRIGATION CONTROLLER(b)	DIG-CORP	LEIT X-10	SEE IRRIGATION CONSTRUC	CTION NOTE NO. 3	1	L-7
-®-	RAIN SENSOR	HUNTER	MINI-CLIK	INSTALL IN VANDAL RESIS MOUNTED TO CONTROLL		1	
BF	BACKFLOW PREVENTER DEVICE	FEBCO	LF825YA	MAINLINE SI BACKFLOW PREVENTER DEVIC ENCLOSURE AND PCC PAD.	CE ASSEMBLY WITH	2	
MV	REMOTE CONTROL MASTER VALVE	BUCKNER SUPERIOR(c)	3100-SERIES	MAINLINE SIZ NORMALLY CLOSE MASTER VAI LEMA 1600HE ACTUATOR AND I SOLENOID ADAP	LVE INCLUDING DIG BUCKNER SUPERIOR	3	
Y	WYE STRAINER PRESSURE REG.	WILKINS	500YSBR	COMBINATION PRESSURE REG. & \ INSTALL IN SEPARATE \		4	
—	GATE VALVE	APOLLO(c)	106T SERIES	MAINLINE S	SIZE	5	
	DRIP CONTROL ZONE (0.5-30 GPM)	RAIN BIRD	REMOTE CONTROL VALVE (RVC) SIZE NOTED ON PLAN	 RAIN BIRD PESB SERIES: VALVE NETAFIM TF10418-XXCV: TECHFILTER (1") PVC BALL VALVE = RCV SIZE DIG LEMA1600H ACTUATOR RAIN BIRD SOLENOID ADAPTER 		11	
•	REMOTE CONTROL VALVE	RAIN BIRD	PESB SERIES	SIZE NOTED ON INCLUDING DIG LEMA 16 AND RAIN BIRD SOLEN	OOHE ACTUATOR	16	
	QUICK COUPLER	HUNTER	HQ-33D	(3/4")		6	
P	CONTROL WIRE PULL BOX	APPROVED	-	NOT SHOWN ON PLAN LOCATE PULL BOX IN PLANTING AREA WHERE FEASIBLE. INSTALL PULL BOX WHERE WIRE RUN CHANGES DIRECTION, ENTERING/EXITING SLEEVING AND BEFORE ENTERING CONTROLLER		7	
– C –	CONTROL WIRE CONDUIT	APPROVED	SCH. 40 PVC	SIZE AS REQUIRED		8, 9 & 10	
	IRRIGATION MAINLINE	APPROVED	CLASS 315 PVC: SCH. 40 PVC: 1.	2" OR GREATER 5" OR SMALLER SIZE NOTED ON PLAN		8, 9 & 10	
	IRRIGATION LATERAL	APPROVED	SCH. 40	PVC	SIZE NOTED ON PLAN	8, 9 & 10	
	PIPE SLEEVE	APPROVED	SCH. 40	PVC	TWICE LINE SIZE OR AS NOTED ON PLAN	8, 9 & 10	

(a) IF STATIC WATER PRESSURE @ POC IS =10 PSI ABOVE MIN. PRESSURE REQUIRED, SET PRESSURE REGULATOR +5 PSI ABOVE MIN. PRESSURE REQUIRED.

SENSOR AVAILABLE THROUGH GENTILE & ASSOCIATES, INC (949) 246-8467 (b) LEIT CONTROLLER ASSEMBLY SHALL INCLUDE:

MCOL 4000L - MOUNTING COLUMN LEIT KEY - SPARE KEY MKIT 4000 - COLUMN MOUNTING KIT SKIT - SENSOR WIRE ADAPTOR ENCL 4000 - STAINLESS STEEL ENCLOSURE

5	SYM	DESCRIPTION	MANUF.	MODEL	NOZ.	PSI	RAD	GPM	DET.	PLN. NO.
	A	ROOT ZONE WATERING SYSTEM	HUNTER	RZWS-36-50-CV	PCB	25	_	0.5	15	L-7
		LANDSCAPE DRIPPERLINE(d)	NETAFIM	TLCV4-12 SERIES Techline Dripperline	_	25	_	0.4 GPH/ EMITTER	12, 13 & 14	L-7

WORST CASE PRESSURE CALCULATION LONGEST RUN - P.O.C. 5.5 GPM @ STATION A9 1.5" WATER METER 1.5" BACKFLOW PREVENTER 12.0 WYE STRAINER & PRESSURE REG. 1.0 MASTER VALVE 0.0 GATE VALVE 1.0 990' OF 1.5" MAINLINE 1.0 1" CONTROL VALVE & FILTER 2.0 LATERAL LINE 2.0 10' ELEVATION GAIN 4.3 SUBTOTAL 23.3 10% LOSS THRU FITTINGS 2.3 PSI REQUIRED FOR EMITTER 25.0 MIN. PRESSURE REQUIRED: 50.6 PS STATIC WATER PRESSURE

@ P.O.C. (POTABLE):

RESIDUAL PRESSURE:

B7 5.0 GALLON PER MINUTE 1"t

CONTROL VALVE INFORMATION -STATION NUMBER IRRIGATION TYPE VALVE SIZE

(d) IRRIGATION SYSTEM SHALL BE INSTALLED COMPLETE INCLUDING LINE FLUSHING VALVE AND OPERATION INDICATOR PER DETAILS 12, 13 & 14, PLAN NO. L-7. PVC HEADER SHALL BE 3/4" SCH 40 PVC PIPE. TECHLINE DRIPPER LINE SPACING @ 12" TO 14" O.C. INSTALL OPERATION INDICATOR PER DETAIL AND FLUSH VALVE AT LOW POINT.

(c)BUCKNER SUPERIOR, APOLLO VALVE AND CST FLOW

IRRIGATION CONSTRUCTION NOTES:

1 P.O.C. - WATER CONNECTION TO EXISTING WATER METER CONTRACTOR SHALL COORDINATE WITH THE WATER UTILITY/SUPPLIER AGENCY AND WITH ENGINEER FOR THE CONNECTION (DOWNSTREAM) TO THE EXISTING WATER SERVICE METER. FIELD LOCATE AND VERIFY EXISTING WATER METER SIZE AND CONDITION WITH THE UTILITY

AGENCY'S REPRESENTATIVE AND ENGINEER PRIOR TO CONNECTION. COORDINATE WITH CIVIL ENGINEERING STREET IMPROVEMENT PLAN FOR ANY ADDITIONAL TASK THAT MAY NEED TO BE PERFORMED TO THE EXISTING WATER METER PRIOR TO CONNECTION.

 BACKFLOW DEVICE AND RELATED EQUIPMENT AS SPECIFIED ON THE PLAN SHALL BE LOCATED IN MEDIAN PLANTING AREA. VERIFY EXACT LOCATION OF BACKFLOW DEVICE AND RELATED EQUIPMENT AS SHOWN ON PLAN WITH ENGINEER AND UTILITY AGENCY'S REPRESENTATIVE PRIOR TO INSTALLATION. CONTACT: CITY OF ROLLING HILLS ESTATE, DEPT. OF PUBLIC WORKS

> (310)377-1577 ext. 103 CALIFORNIA WATER SERVICES - RANCHO DOMINGUEZ DISTRICT (310)257-1400

(2) EXISTING BACKFLOW PREVENTER DEVICE O ACCOMMODATE RETAINING WALL CONSTRUCTION, CONTRACTOR SHALL

THE CITY DEPT. OF PUBLIC WORKS. CUT AND CAP ALL SUPPLY WATER LINES CONNECTED TO EXISTING WATER METER. NEW IRRIGATION CONTROLLER INSTALL NEW IRRIGATION CONTROLLER (PER LEGEND) AT THIS LOCATION IN

MEDIAN PLANTING AREA. VERIFY EXACT LOCATION WITH ENGINEER PRIOR TO INSTALLATION. INSTALL PULL BOX FOR CONTROLLER WIRE SPLICES PRIOR FOR WIRES TO ENTERING CONTROLLER ASSEMBLY.

REMOVE, SALVAGE AND RETURN EXISTING BACKFLOW PREVENTER DEVICE TO

IRRIGATION DESIGN CRITERIA

NAME OF WATER SUPPLIER: CALIFORNIA WATER SERVICES CONTACT: (310) 257-1400

STATIC WATER PRESSURE @ P.O.C.: FIELD VERIFY MAX. FLOW (GPM) AT STATION 2: 6.5 CONTRACTOR SHALL VERIFY STATIC WATER PRESSURE WITH

WATER AGENCY/SUPPLIER PRIOR TO INSTALLATION. IF PRESSURE IS BELOW MIN. PRESSURE REQUIRED, CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY. FAILURE TO DO SO WILL RESULT IN CONTRACTOR BEING RESPONSIBLE FOR CHANGES THAT MAY OCCUR.

IRRIGATION CONTROL WIRE SIZING TABLE						
CONDUIT SIZE	MAX. NO. OF WIRES # 14 AWG					
<u>1</u> "	2					
3/4"	4					
1"	6					
1 1 "	10					
1 <u>1</u> "	14					
2"	25					

3 1 4.3 Runs per Cycle/Duration

PIPING SIZES						
MINIMUM PIPE FOR ALL PIPE USE THE FOL	SIZES NO	T SHOWN				
G.P.M. F 0-8 9-12 13-22 23-30 31-50	1 " 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TYPE SCH. 40 SCH. 40 SCH. 40 SCH. 40 CLASS 315				

PROJECT INFORMATION (SECTION 492.3(1))*

DATE: 7/13/2021

PROJECT APPLICANT: CITY OF ROLLING HILLS ESTATES PROJECT LOCATIONS: 3011 PALOS VERDES DR. N.

TOTAL LANDSCAPED AND IRRIGATION AREA: 3,346 S.F. PROJECT TYPE: PUBLIC AGENCY

WATER SUPPLY:

WATER AGENCY: CALIFORNIA WATER SERVICES

PROJECT APPLICANT CITY OF ROLLING HILLS ESTATES, DEPT. OF PUBLIC WORKS CONTACT:

DOMESTIC

"I AGREE TO COMPLY WITH THE REQUIREMENTS OF THE WATER EFFICIENT LANDSCAPE ORDINANCE AND SUBMIT A COMPLETE LANDSCAPE DOCUMENT PACKAGE"

LANDSCAPE ARCHITECT: ______ DATE: 7/13/2021

WATER EFFICIENT LANDSCAPE WORKSHEET (SEC. 492.4)*

REFERENCE E (ETo):	VAPOTRANSPIF	RATION	42.6				
HYDROZONE	PLANT FACTOR*	IRRIGATION METHOD**	IRRIGATION EFFICIENCY (IE)	ETAF (PF/IE)	AREA (S.F.)	ETAF X AREA	ESTIMATED TOTAL WATER USE (ETWU)
1	0.3	В	0.81	0.37	18	7	176
2	0.3	D	0.81	0.37	932	345	9,117
3	0.3	D	0.81	0.37	568	210	5,556
4	0.3	В	0.81	0.37	3	1	29
5	0.3	D	0.81	0.37	295	109	2,886
6	0.3	В	0.81	0.37	18	7	176
7	0.3	D	0.81	0.37	673	249	6,583
8	0.3	D	0.81	0.37	839	311	8,207
	TOT	AL			3,346	1,239	32,731
SPECIAL LAND	SCAPE AREAS						
Α	_	_	_	1	0	0	0
		TOTAL			0	0	0
	TOTAL AL	L LANDSCAP	E AREA		3,346		
		ESTIMATED	TOTAL WA	TER USE			32,731
		MAXIMUM ANI	NUAL WATER A	LLOWANCE			39,769
ETAF (NON-RES.)	ETAF (RES.)	ETAFXLA	ETAFXSLA				
0.45	0.55	1,506	0				

**IRRIGATION METHOD MS = MICROSPRAYS = SPRAYR = ROTORB = BUBBLER

*HYDROZONE HW = HIGH WATER USE PLANTS - WULCOLS = 0.7-1MW = MEDIUM WATER USE PLANTS - WULCOLS = 0.4-0.6LW = LOW WATER USE PLANTS - WULCOLS = 0-0.3

D = DRIPRO = ROTARY

WATER USE CLASSIFICATIONS OF LANDSCAPE SPECIES WULCOLS III, AUGUST 2000 UNIVERSITY OF CALIFORNIA COOPERATIVES EXTENSIONS CALIFORNIA DEPARTMENT OF WATER RESOURCES

MAXIMUM APPLIED WATER ALLOWANCE (MAWA) FORMULA: (ETo)(0.62)[(ETAFxAREA)+(1-ETAFxSLA)]

MAWA = MAXIMUM APPLIED WATER ALLOWANCE (GALLONS PER YEAR)

= PLANT FACTOR = REFERENCE EVAPOTRANSPIRATION (INCHES PER YEAR)

= ET ADJUSTMENT FACTOR (ETAF) = IRRIGATION EFFICIENCY (0.75-SPRAY, 0.81-DRIP) = CONVERSION FACTOR (TO GALLON PER SQUARE FOOT) 0.62 = PORTION OF THE LANDSCAPE AREA IDENTIFIED AS SPECIAL

LANDSCAPE AREA (SQUARE FEET) ETAF = PF/IE

MAWA = 39,769 GALLONS

ESTIMATED TOTAL WATER USE (ETWU) FORMULA: ETWU = (ETo)(0.62)*ETAF+AREA

ETWU = ESTIMATED TOTAL WATER USE PER YEAR (GALLONS PER YEAR)

ETWU= 32,731 GALLONS

LANDSCAPE AND IRRIGATION MAINTENANCE SCHEDULE (SECTION 492.11)*

1. LANDSCAPE SHALL BE MAINTAINED TO ENSURE WATER USE EFFICIENCY. 2. A REGULAR MAINTENANCE SCHEDULE SHALL BE SUBMITTED WITH THE CERTIFICATE OF

COMPLETION. 3. REGULAR MAINTENANCE SCHEDULE SHALL INCLUDE:

 ROUTINE INSPECTION ADJUSTMENT & REPAIR OF IRRIGATION SYSTEM AND ITS COMPONENTS REPLENISHING MULCH

 FERTILIZING PRUNING

WEEDING

IN ALL LANDSCAPE AREAS, AND REMOVING ANY OBSTRUCTION TO EMISSION DEVICES. 4. OPERATION OF SYSTEM IS ALLOWED FOR AUDITING AND SYSTEM MAINTENANCE.

5. REPAIR OF ALL IRRIGATION EQUIPMENT SHALL BE DONE WITH THE ORIGINALLY INSTALLED COMPONENTS OR THEIR EQUIVALENTS.

SOIL MANAGEMENT REPORT (SECTION 492.5)*

- 1. PRIOR TO INSTALLATION OF PLANTING MATERIAL, THE CONTRACTOR SHALL PERFORM SOIL TEST ANALYSIS OF PLANTING AREAS. SOIL ANALYSIS MAY INCLUDE:
- SOIL TEXTURE INFILTRATION RATE
- TOTAL SOLUBLE SALTS PERCENT ORGANIC MATTER SOIL AMENDMENT RECOMMENDATIONS
- CONDUCTED BY A CERTIFIED SOIL LABORATORY. CONTRACTOR SUBMIT SOIL ANALYSIS REPORT TO THE CITY AS PART OF

SOIL SAMPLES SHALL BE DELIVERED TO AND TEST SHALL BE

CITY AS PART OF THE CERTIFICATE OF COMPLETION.

THE CERTIFICATE OF COMPLETION. 3. CONTRACTOR SHALL SUBMIT DOCUMENTATION VERIFYING IMPLEMENTATION OF SOIL ANALYSIS REPORT RECOMMENDATIONS TO THE

IRRIGATION AUDIT/IRRIGATION WATER USE ANALYSIS (SECTION 492.12)*

- 1. ALL IRRIGATION AUDIT SHALL BE CONDUCTED BY A
- CERTIFIED IRRIGATION AUDITOR. 2. NEW CONSTRUCTION & REHABILITATED LANDSCAPE PROJECTS INSTALLED AFTER JAN. 1, 2010: CONTRACTOR SHALL SUBMIT AN IRRIGATION AUDIT REPORT WITH THE CERTIFICATE OF COMPLETION TO THE LOCAL AGENCY THAT MAY INCLUDE: INSPECTION. SYSTEM TUNE-UP, SYSTEM TEST WITH DISTRIBUTION
- THAT CAUSE OVERLAND FLOW, AND PREPARATION OF AN IRRIGATION SCHEDULE. 3. LOCAL AGENCY SHALL ADMINISTER PROGRAMS TO INCLUDE IRRIGATION SURVEYS FOR COMPLIANCE WITH MAWA.

UNIFORMITY, REPORTING SYSTEM LEAK AND RUN-OFF

CALIFORNIA CODE OF REGULATION - TITLE 23: WATER DIVISION 2: DEPARTMENT OF WATER RESOURCES CHAPTER 2.7. MODEL WATER EFFICIENT LANDSCAPE ORDINANCE

IRRIGATION GENERAL NOTES

- THIS SYSTEM IS DIAGRAMMATIC. ALL PIPE, VALVES, ETC. SHOWN WITHIN PAVED AREAS ARE FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS WHEREVER POSSIBLE OR
- AT THE LOCATION AS INDICATED ON PLAN. DO NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS INDICATED ON THE PLAN WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN OBSTRUCTIONS OR GRADE DIFFERENCES EXIST AND SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER. IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR MUST ASSUME FULL RESPONSIBILITY FOR REVISIONS NECESSARY. NOTIFY THE CITY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES BETWEEN PLANS AND ACTUAL FIELD CONDITIONS.
- CONTRACTOR SHALL NOT LOCATE ANY ITEMS WHERE IT IS OBVIOUS THAT THEY ARE IN DIRECT CONFLICT WITH UNDERGROUND UTILITIES, STRUCTURES, PERMANENT IMPROVEMENTS OR PEDESTRIAN AND VEHICULAR SAFETY CONSIDERATIONS.
- 4. SYSTEM DESIGN IS BASED ON MINIMUM OPERATING PRESSURE SHOWN AT EACH POINT OF CONNECTION WITH MAXIMUM GPM DEMAND SPECIFIED. IRRIGATION CONTRACTOR SHALL VERIFY ALL PRESSURES ON SITE PRIOR TO CONSTRUCTION AND GIVEN TO IN WRITING TO THE ENGINEER.
- 5. MAINLINE FEEDER BETWEEN POINT OF CONNECTION AND METER TO BE OF MATERIAL AS REQUIRED BY CURRENT WATER DISTRICT/AGENCY.

6. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL GRADE

DIFFERENCES, LOCATION OF WALLS, SIDEWALKS, CURBS, ETC. HE SHALL COORDINATE HIS WORK WITH

- THE GENERAL CONTRACTOR AND OTHER SUB-CONTRACTORS FOR LOCATION OF PIPE SLEEVES THROUGH WALLS, UNDER ROADS, PAVING AND STRUCTURES DURING BIDDING AND CONSTRUCTION 7. CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES. STRUCTURES AND SERVICES
- BEFORE COMMENCING WORKS. THE LOCATIONS OF UTILITIES, STRUCTURES AND SHOWN IN THESE PLANS ARE APPROXIMATE ONLY. ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE CITY ENGINEER.
- LOCATION EXISTING WATER SERVICE/SUPPLY LINE SHOWN ON PLAN IS APPROXIMATE ONLY. CONTRACTOR SHALL FIELD VERIFY AND COORDINATE WITH THE ENGINEER AND INGLEWOOD UTILITIES' REPRESENTATIVE FOR EXACT LOCATION PRIOR TO INSTALLATION.
- CONTRACTOR SHALL VERIFY IN THE FIELD WITH THE ENGINEER, AND THE LOCAL GOVERNING AGENCY REPRESENTATIVE, ALL LOCATIONS OF POINT OF CONNECTIONS, WATER METERS, MAIN WATER SUPPLY LINE, AUTOMATIC CONTROLLER AND VALVES, PRIOR TO CONSTRUCTION. 10. IN ADDITION TO THE SLEEVES SHOWN ON THE PLAN, THE CONTRACTOR SHALL BE RESPONSIBLE FOR
- THE INSTALLATION OF ADDITIONAL SLEEVES OF SUFFICIENT SIZE UNDER PAVED AREAS AS REQUESTED BY THE ENGINEER. SLEEVES SHALL BE SCH 40 PVC PIPE. CONTRACTOR SHALL FLUSH ALL LINES. SLEEVES TO BE GROUPED WHERE POSSIBLE.
- PRECISE LOCATION OF IRRIGATION HEAD, NOZZLE TYPE AND DRIPPER LINE SHALL BE APPROVED BY THE ENGINEER.
- 12. ALL IRRIGATION CONSTRUCTION AND MATERIALS SHALL BE INSTALLED PER THE MANUFACTURES SPECIFICATIONS AT THE LOCATIONS AS SHOWN ON PLANS AND ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH LOCAL AND REGIONAL GOVERNING CODES. VERIFY LOCATIONS OF ALL IRRIGATION EQUIPMENT WITH THE ENGINEER PRIOR TO INSTALLATION.
- 13. CONTRACTOR SHALL INSTALL ALL EQUIPMENT AS SHOWN ON THE DETAILS AND IN SPECIFICATIONS. CONTRACTOR IS TO PROVIDE ADDITIONAL (5) PILOT WIRES AND (1) COMMON WIRE FROM CONTROLLER ALONG ENTIRETY OF MAINLINE TO THE LAST RCV ON EACH OF EVERY LEG OF MAINLINE. LABEL SPARE WIRES AT BOTH ENDS.
- 14. INSTALL ALL QUICK COUPLER VALVES AS SHOWN ON DETAILS. QUICK COUPLER VALVE SHALL BE INSTALLED WITHIN 18" OF HARDSCAPE.

ROADWAY IRRIGATION PIPE TRENCHING NOTE

DRAWN BY: BN

DESIGNED BY: BN

CHECKED BY: JH

ALL TRENCHING OPERATION IN ROADWAY FOR IRRIGATION PIPE AND WIRE CONDUIT INSTALLATION SHALL OCCUR AFTER ASPHALT PAVEMENT COLD MILLING AND PRIOR TO RUBBER ASPHALT SURFACE INSTALLATION.

IRRIGATION SCHEDULE

	7/13/2021	By: Will	dan			_										26											-	69														
Valve Da	ta				70	Month	h		E/					2.00							54												Ge.									
Sta.#	GPM	in/hr.*	Planting	Exp	Aspect		Jan			Feb			Mar			Apr			May			Jun			Jul			Aug			Sep			Oct			Nov			Dec		Totals:
1	6	N/A	Tree	Sun	Flat	2	1	4.3	2	1	4.3	3	1	4.3	3	1	4.3	5	1	4.3	5	2	8.6	5	2	8.6	5	2	8.6	5	2	8.6	5	2	8.6	3	1	4.3	2	1	4.3	3,096 Gallons
2	6.5	0.19	Shrub	Sun	Flat	5	1	4.3	5	1	4.3	8	1	4.3	8	1	4.3	10	2	8.6	12	2	8.6	12	2	8.6	15	2	8.6	15	2	8.6	8	2	8.6	8	1	4.3	5	1	4.3	9,140 Gallons
3	4	0.19	Shrub	Sun	Flat	5	1	4.3	5	1	4.3	8	1	4.3	8	1	4.3	10	2	8.6	12	2	8.6	12	2	8.6	15	2	8.6	15	2	8.6	8	2	8.6	8	1	4.3	5	1	4.3	5,624 Gallons
4	1	N/A	Tree	Sun	Flat	2	1	4.3	2	1	4.3	3	1	4.3	3	1	4.3	5	1	4.3	5	2	8.6	5	2	8.6	5	2	8.6	5	2	8.6	5	2	8.6	3	1	4.3	2	1	4.3	516 Gallons
5	2	0.19	Shrub	Sun	Flat	5	1	4.3	5	1	4.3	8	1	4.3	8	1	4.3	10	2	8.6	12	2	8.6	12	2	8.6	15	2	8.6	15	2	8.6	8	2	8.6	8	1	4.3	5	1	4.3	2,812 Gallons
6	6	N/A	Tree	Sun	Flat	2	1	4.3	2	1	4.3	3	1	4.3	3	1	4.3	5	1	4.3	5	2	8.6	5	2	8.6	5	2	8.6	5	2	8.6	5	2	8.6	3	1	4.3	2	1	4.3	3,096 Gallons
7	5	0.19	Shrub	Sun	Flat	5	1	4.3	5	1	4.3	8	1	4.3	8	1	4.3	10	2	8.6	12	2	8.6	12	2	8.6	15	2	8.6	15	2	8.6	8	2	8.6	8	1	4.3	5	1	4.3	7,031 Gallons
8	6	0.19	Shrub	Sun	Flat	5	1	4.3	5	1	4.3	8	1	4.3	8	1	4.3	10	2	8.6	12	2	8.6	12	2	8.6	15	2	8.6	15	2	8.6	8	2	8.6	8	1	4.3	5	1	4.3	8,437 Gallons
						,																																				0 Gallons
																																										0 Gallons
																																										0 Gallons
																																										0 Gallons
																																			9 5							0 Gallons
																													Ĭ								11947					0 Gallons
						9				i.																											A 100 1					0 Gallons
																										9 9																0 Gallons
					7					A.																	1.0															0 Gallons
in/hr* - A	in/hr* - App. Rate shown for information only.											Irr	igatio	n Syst	em Ye	arly T	otals:	39,751 Gallons																								
Data rep	esents a	verage r	ate for eac	h valve/s	station.					Minu	ites pe	r Run		Cycles	/Durat	tions p	oer Mo	onth																				RISE		1000)	5,314.35 C.Ft.





Comprehensive	BENCH MARK:			REVISIONS		
nnovative	NO	ELEV.	NO.	DESCRIPTION	APP.	DAT
Frusted ,	DATE ADJ.	QUAD				
	NON	NE				

CITY OF ROLLING HILLS ESTATES

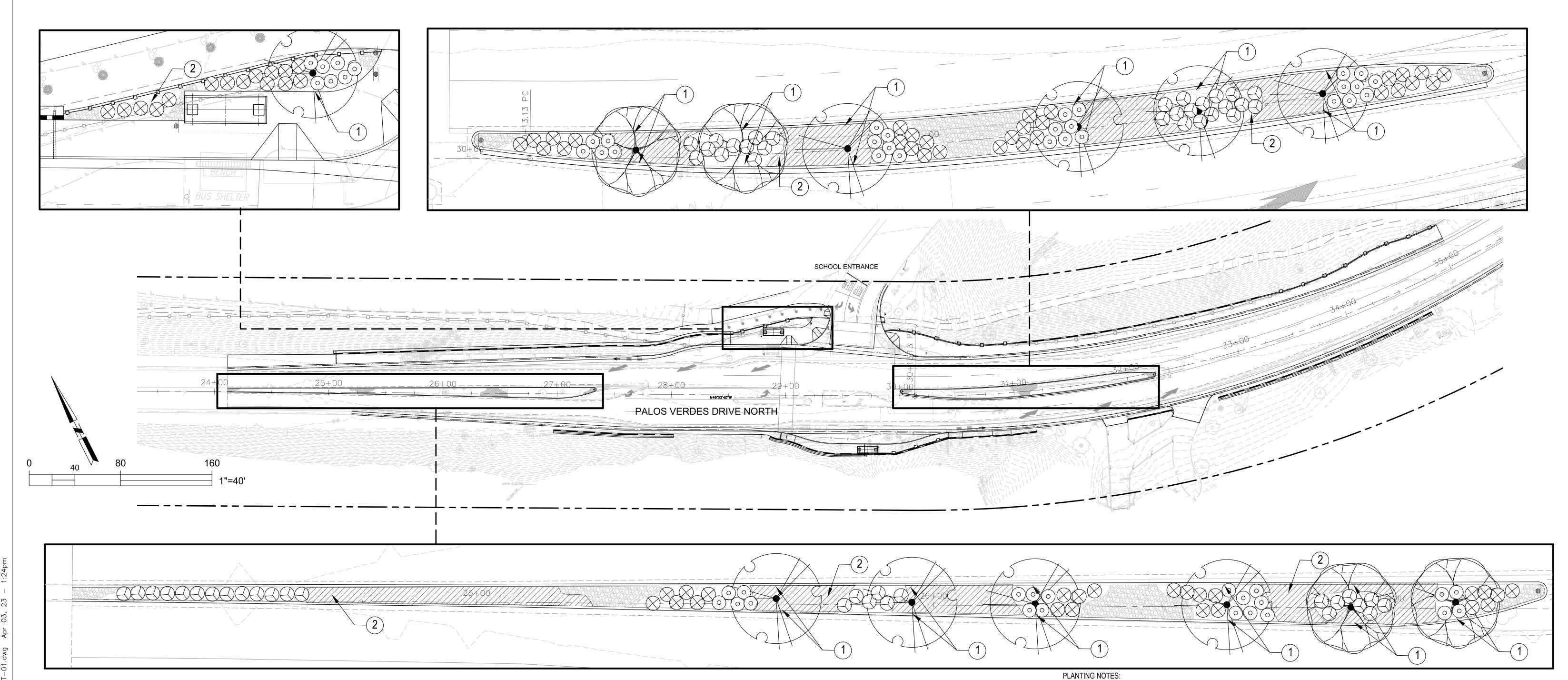
STREET MEDIAN & PARKWAY IRRIGATION LEGEND AND NOTES

INTERSECTION CAPACITY IMPROVEMENTS AT PALOS VERDES DRIVE NORTH AND DAPPLEGRAY SCHOOL ENTRANCE

SHT.17 OF 22 SHTS.

L-3

JOHN HIDALGO R.L.A. 3551 DATE



PLANTING LEGEND

TREES

SYM	BOTANICAL NAME	COMMON NAME	SIZE	QTY	REMARKS	DET.	SHT.	HT. SP.	WUCOLS
	CERCIS OCCIDENTALIS	WESTERN RED BUD	24 GAL.	4	STANDARD	1 & 2	L-8	20' 15'–20'	L
	SCHINUS MOLLE	CALIFORNIA PEPPER	24 GAL.	9	STANDARD	1 & 2	L-8	25'–50' 25'–40'	

PLANTING CONSTRUCTION NOTE:

- 1 FURNISH AND INSTALL ROOT CONTROL BARRIER. SEE DETAIL 1, PLAN NO L-8.
- 2 FURNISH AND INSTALL 3" LAYER OF REDWOOD CHIPS PER GENERAL NOTE NO. 3.

SHRUBS

SYM	BOTANICAL NAME	COMMON NAME	SIZE	QTY	REMARKS	DET.	SHT.	HT. SP.	WUCOLS
\odot	AGAVE DESMETTIANA	SMOOTH AGAVE	5 GAL.	54	SPACING PER PLAN	3	L-8	3' 3'	L
\oplus	SALVIA LEUCANTHA 'SANTA BARBARA'	SANTA BARBARA SAGE	5 GAL.	67	SPACING PER PLAN	3		3' 3'	L
\bigcirc	MUHLENBERGIA CAPILLARIS 'REGAL MIST'	PINK MUHLY	5 GAL.	54	SPACING PER PLAN	3	V	3' 3'	L

GROUNDCOVERS

ARTOSTRAPHYLUS UVA— URSI 'POINT REYES'	BEARBERRY	1 GAL.	148	SPACING @ 36" O.C.	3	L-8	12" 15'	L
---	-----------	--------	-----	-----------------------	---	-----	------------	---

WUCOLS: WATER USE CLASSIFICATIONS OF LANDSCAPE SPECIES H: HIGH M: MODERATE L: LOW

3551

PLANS PREPARED BY:	
WILLDAN Engineering	Comprehensive Innovative Trusted
13191 CROSSROADS PARKWAY NORT SUITE 405 INDUSTRY, CA 91746-34 (562) 908-6200	Н
UNDER THE SUPERVISION OF	

							STRE	ET I
ive	BENCH MARK:			REVISIONS				
	NO DATE ADJ	ELEV QUAD	NO.	DESCRIPTION	APP.	DATE		I
	NONE						AT PALOS	/ERC
	113112						DRAWN BY:	BN

AWARD OF CONTRACT.

1. VERIFY EXACT TREE LOCATIONS WITH ENGINEER PRIOR TO INSTALLATION.

RECYCLED WOOD PRODUCTS. (877)GROW RWP hank@rwpmulch.com 4. ALL PLANTING BACKFILL AMENDMENTS SHALL BE SUPPLEMENTED WITH

BACKFILL MIXTURE SHALL FOLLOW MANUFACTURER'S SPECIFICATIONS.

"TRI-C HUMATE PLUS" & "MYCO PAK" MANUFACTURED BY TRI-C (909) 590-1790

AND VERIFY WITH ENGINEER PRIOR TO INSTALLATION.

REDWOOD CHIPS AVAILABLE THROUGH

TREES, SHRUBS AND GROUNDCOVER PROCUREMENT

https://www.tri-corganics.com/

TREES & SHRUBS AVAILABLE THROUGH

AS TOP DRESS IN ALL SHRUB & GROUNDCOVER AREAS.

5. KEEP REDWOOD CHIPS 6 INCHES CLEAR FROM SHRUB STEM.

2. CONTRACTOR SHALL CHALK LAYOUT SHRUB MASSES AND GROUNDCOVERS WITHIN THE PLANTING AREAS

3. CONTRACTOR SHALL FURNISH AND INSTALL 3-INCH LAYER OF SHREDDED REDWOOD CHIPS, LARGE GRIND,

6. QUANTITIES SHOWN ON LEGEND ARE FOR CONVENIENCE ONLY, CONTRACTOR SHALL VERIFY EXACT QUANTITY OF EACH SHRUB & GROUNDCOVER SPECIES WITH ENGINEER PRIOR TO COMMENCING PLANTING.

DESIGNED BY: BN

CHECKED BY: JH

CONTRACTOR SHALL BE RESPONSIBLE FOR CONTRACT GROW, AT THE CONTRACTOR'S EXPENSE, ALL THE PLANTS LISTED ON THE PLANTING LEGEND. CONTRACTOR SHALL PROVIDE TO THE CITY AN INVOICE OF ALL THE LISTED PLANTS THAT WILL BE CONTRACT GROWN AND/OR RESERVED. THE PROCUREMENT INVOICE STATEMENT SHALL BE SUBMITTED TO THE CITY ENGINEER FOR REVIEW AND APPROVAL WITHIN 15 DAYS OF

LANDSCAPE RESOURCE INC. (760)798-9810 aj@landscaperesourcesinc.com, Tvega722@gmail.com

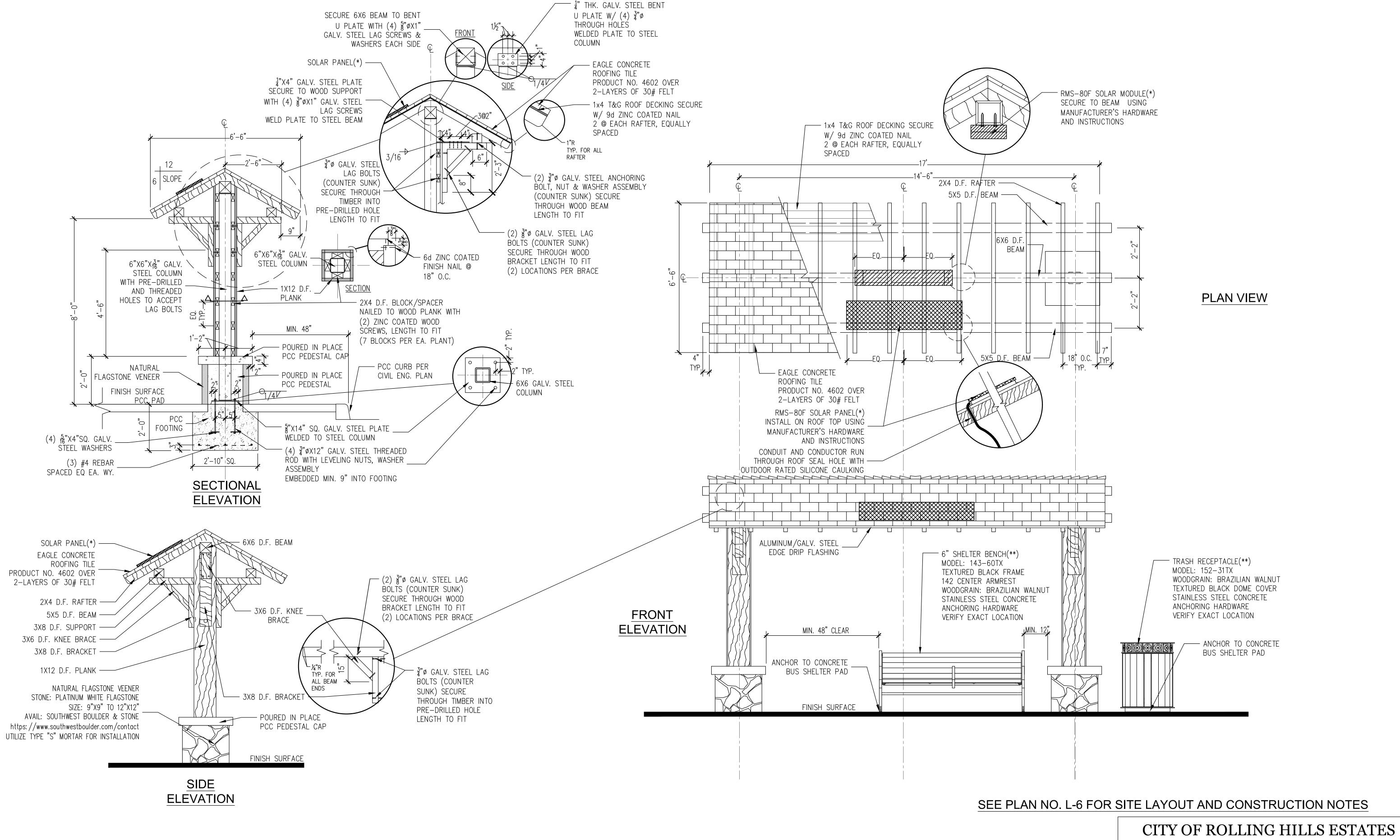
CITY OF ROLLING HILLS ESTATES

STREET MEDIAN & PARKWAY PLANTING PLAN

INTERSECTION CAPACITY IMPROVEMENTS AT PALOS VERDES DRIVE NORTH AND DAPPLEGRAY SCHOOL ENTRANCE

SHT. 180F 22 SHTS.

JOHN HIDALGO R.L.A. 3551 DATE



BUS SHELTER DETAILS

INTERSECTION CAPACITY IMPROVEMENTS AT PALOS VERDES DRIVE NORTH AND DAPPLEGRAY SCHOOL ENTRANCE

DRAWN BY: BN SHT. 19 OF 22 SHTS. DESIGNED BY: BN

BUS SHELTER AND SITE FURNISHING

NTS

3551

_{×p}.07-31-23

UNDER THE SUPERVISION OF

13191 CROSSROADS PARKWAY NORTH SUITE 405 INDUSTRY, CA 91746-3497 (562) 908-6200

PLANS PREPARED BY:

JOHN HIDALGO R.L.A. 3551 DATE

WILLDAN Comprehensive

Engineering Trusted

BENCH MARK:

DATE ADJ. _____QUAD. _

NONE

_ ELEV.

CHECKED BY: JH

REVISIONS

APP. DATE

DESCRIPTION

L-5

GENERAL NOTES:

- VERIFY EXACT LOCATION OF BUS SHELTER, BENCH AND TRASH RECEPTACLE WITH ENGINEER PRIOR
- . DETAILS AND PLANS SHOWN ARE TO ILLUSTRATE THE DESIGN INTENT ONLY. THE CONTRACTOR SHALL SUBMIT COMPLETE SHOP DRAWINGS AND CONSTRUCTION MATERIAL SUBMITTALS TO ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
- SHOP DRAWING SHALL INCLUDE ALL SPECIFICATION CALL—OUTS AND DIMENSIONS AS SHOWN INCLUDING ANY NEEDED DIMENSIONS AND CALL-OUTS NOT SHOWN CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING FOOTING
- CALCULATIONS FROM A CALIFORNIA REGISTERED ENGINEER TO THE CITY AS PART OF THE BUILDING PERMIT PLAN CHECK SUBMITTAL FOR REVIEW AND APPROVAL.
- 1. BUS SHELTER COLOR SCHEDULE, BUILDING MATERIAL, AND SITE FURNISHING COLOR SHALL BE AS INDICATED ON THE DRAWINGS.
- VERIFY ALL EXISTING UTILITY STRUCTURES WITH CIVIL IMPROVEMENT PLANS WITHIN AND SURROUNDING THE PROPOSED BUS SHELTER LOCATIONS AS SHOWN ON PLAN WITH ENGINEER PRIOR TO INSTALLATION.

CONTRACTOR'S RESPONSIBILITIES:

- 1. CONSTRUCT BUS SHELTER, FURNISH AND INSTALL SOLAR POWERED LIGHTING ASSEMBLY, FURNISH AND INSTALL SITE FURNISHING, COMPLETE PER PLAN.
- 2. CONTRACTOR SHALL COORDINATE WITH MANUFACTURERS TO OBTAIN SHOP DRAWINGS OF BUS BENCH, TRASH RECEPTACLE, SOLAR LIGHT ASSEMBLY AND CUT SHEETS/SAMPLES OF ROOFING MATERIAL AND STONE VENEER FOR CITY REVIEW SUBMITTAL, INCLUDING SHIPPING AND DELIVERY SCHEDULING PRIOR TO PLACING ORDER
- 3. CONTRACTOR SHALL FURNISH SHOP DRAWINGS OF A COMPLETE BUS SHELTER ASSEMBLY PER GENERAL NOTE NO. 2 & 3 TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
- 4. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CITY BUILDING PERMIT APPLICATION, STRUCTURAL PLAN CHECK SUBMITTAL AND FEE, IF REQUIRED, FOR THE INSTALLATION OF SHELTER.
- 5. CONTRACTOR SHALL VERIFY EXACT COLORS OF TRASH RECEPTACLE AND BENCH WITH THE CITY PRIOR TO ORDERING.
- 6. CONTRACTOR SHALL:
- FURNISH ALL NEEDED GALVANIZED STEEL HARDWARE THAT WAS NOT PROVIDED BY THE MANUFACTURERS FOR THE ANCHORING OF BENCH, TRASH RECEPTACLE AND SOLAR POWERED LIGHTING ASSEMBLY AT LOCATIONS SHOWN ON PLAN. ALL INSTALLATION AND ANCHORING SHALL FOLLOW MANUFACTURER'S SPECIFICATIONS/INSTRUCTIONS.
- APPLY CLEAR ANTI-GRAFFITI COATING ON ALL EXPOSED SURFACES OF SHELTER. ANTI-GRAFFITI COATING SHALL BE PER SPECIFICATIONS. COATING APPLICATION SHALL BE PER MANUFACTURER'S SPECIFICATIONS/WRITTEN INSTRUCTIONS.
- ALL INSTALLATION AND SITE FURNISHING ANCHORING SHALL FOLLOW MANUFACTURER'S SPECIFICATIONS/INSTRUCTIONS.

LUMBER NOTE: ALL WOOD TO BE ROUGH SAWN DOUGLAS FIR (D.F.) NO.1 GRADE OR BETTER. PAINT NOTE:

- PRIME AND PAINT ALL EXTERIOR SURFACE OF WOOD MEMBERS AND METAL HARDWARE(a) WITH 1 COAT PRIMER, 2 COATS ENAMEL COLOR: WARM WHITE-DEW380 BY DUNN-EDWARDS CO.
- PROVIDE CITY ENGINEER W/ COLOR SAMPLE PRIOR TO CONSTRUCTION. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

(a)FOR GALV. STEEL HARDWARE, USE ULGMOO AS PRIMER.

MANUFACTURER CONTACTS:

* SOLAR POWERED SHELTER LIGHTING ASSEMBLY URBAN SOLAR (503)356-5516 info@urbansolarcorp.com

** BENCH AND TRASH RECEPTACLE

DUMOR (800)598-4018 sales@dumor.com

EAGLE ROOFING PRODUCT (800)300-3245 www.eagleroofing.com

TO APPLICATION.

TO CONSTRUCTION.

3. CONTRACTOR SHALL SUBMIT 2'X2' MOCKED-UP

SAMPLE OF TOP-CAST FINISH PCC PAVING TO

REVISIONS

APP | DATE

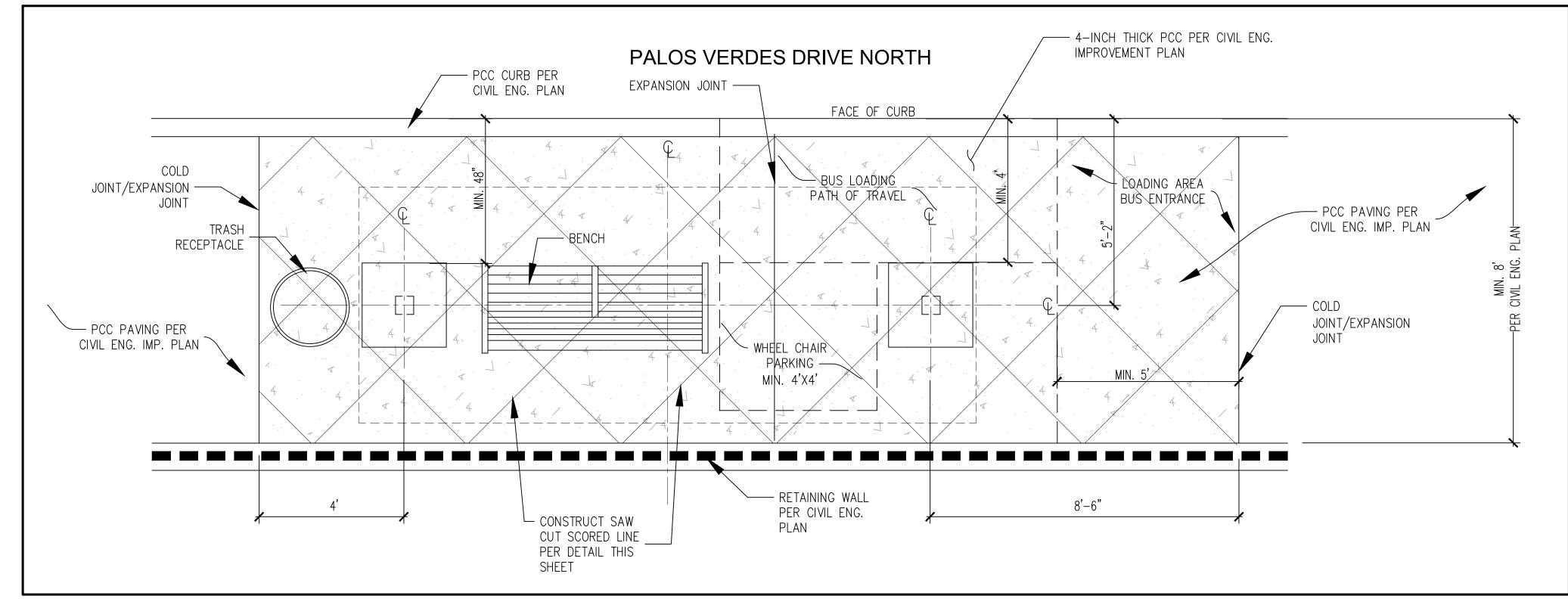
DESIGNED BY: BN

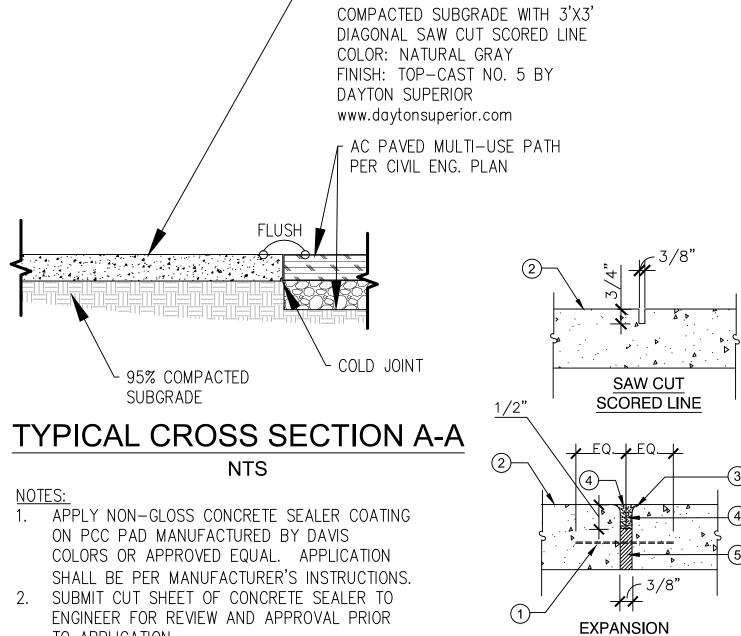
CHECKED BY: JH

DESCRIPTION

ENGINEER FOR REVIEW AND APPROVAL PRIOR

DUNN EDWARDS CONTACT: DAVE MAJOR (310)909-3769 dave.major@dunnedwards.com - CONSTRUCT 4-INCH THICK PCC PAD ON





(1) 12" #4 REBAR @ 48" O.C. (2) FINISHED SURFACE

(3) 1/4" RADIUS

4 JOINT SEALANT — POLYEURETHANE (5) JOINT FILLER - POLYSTYRENE

GENERAL NOTE:

TOP DRESS SEALANT WITH SILICA SAND. SEALANT COLOR TO MATCH ADJACENT CONCRETE COLOR.

L-6

CITY OF ROLLING HILLS ESTATES

BUS SHELTER LAYOUT AND CONSTRUCTION NOTES

INTERSECTION CAPACITY IMPROVEMENTS AT PALOS VERDES DRIVE NORTH AND DAPPLEGRAY SCHOOL ENTRANCE

SHT. 20 OF 22 SHTS.

DRAWN BY: BN

LOCATION 2

BUS SHELTER LAYOUT PLAN AND CONSTRUCTION NOTES



PLANS PREPARED BY: WILLDAN Comprehens Engineering Trusted 13191 CROSSROADS PARKWAY NORTH SUITE 405 INDUSTRY, CA 91746-3497 (562) 908-6200 UNDER THE SUPERVISION OF

BENCH MARK:

DATE ADJ. _____QUAD. _

NONE

ELEV.

JOHN HIDALGO R.L.A. 3551 DATE

SCALE: 1"=2'-0"

