CITY OF SAN MARCOS

RANCHO CORONADO PARK IMPROVEMENTS
(CIP NO. PK006)

IMPROVEMENT NOTES

1. THE STRUCTURAL SECTIONS SHOWN ON THESE PLANS ARE BASED ON R-VALUE TESTS OR MINIMUM STRUCTURAL STANDARDS REQUIRED BY THE CITY, WHICHEVER IS GREATER. ACTUAL STRUCTURAL SECTIONS WILL BE DETERMINED AFTER THE "R" VALUE TEST HAS BEEN CONDUCTED BY A QUALIFIED GEOTECHNICAL ENGINEER ON THE PREPARED SUB_BASE MATERIAL. THE "R" VALUE TEST AND RECOMMENDED ENGINEERED STRUCTURAL SECTION MUST BE APPROVED BY THE PUBLIC WORKS DIRECTOR PRIOR TO THE INSTALLATION OF BASE AND PAVING MATERIALS. STRUCTURAL SECTIONS SHALL BE DESIGNED IN ACCORDANCE WITH CHAPTER 600 OF THE CALTRANS HIGHWAY DESIGN MANUAL. STRUCTURAL SECTIONS SHALL BE NOTED ON THE "AS_BUILT" DRAWINGS.

   THIS NOTE WILL NOT APPLY TO THOSE AREAS WHERE GRADING IS MINIMAL AND "R" VALUES CAN BE OBTAINED PRIOR TO PLAN APPROVAL. ALL EXISTING STREETS SHALL BE CORE TESTED TO DETERMINE THE EXISTING STRUCTURAL SECTION AND TO DETERMINE THE EXTENT OF OVERLAY OR RECONSTRUCTION NECESSARY TO ACHIEVE THE REQUIRED "R" VALUES, TESTS SHALL BE PERFORMED AT LOCATIONS APPROVED BY THE PUBLIC WORKS DIRECTOR.

2. ALL ELECTRICAL, TELEPHONE AND CABLE TELEVISION UTILITIES SHALL BE CONSTRUCTED/CONVERTED TO UNDERGROUND. THE RELOCATION AND/OR UNDERGROUNDING OF EXISTING AND NEW UTILITIES SHALL BE DONE BY THE DEVELOPER OF THE PROPERTY AT NO COST TO THE CITY.

3. ALL UNDERGROUND UTILITIES AND LATERALS SHALL BE INSTALLED BEFORE CONSTRUCTION OF THE CURB AND GUTTER OR SURFACING OF STREETS.

4. A PERMIT SHALL BE OBTAINED FROM THE CITY OF SAN MARCOS FOR ANY EXCAVATION AND/OR CONSTRUCTION WITHIN THE PROPOSED PROJECT AND PUBLIC RIGHT-OF-WAY.

5. CONTRACTOR SHALL NOTIFY THE ASSIGNED CITY OF SAN MARCOS PUBLIC WORKS INSPECTOR 48-HOURS PRIOR TO THE BEGINNING OF ANY GRADING/CONSTRUCTION.

6. PRECISE LOCATIONS/ELEVATIONS OF THE EXISTING UNDERGROUND UTILITIES ARE NOT KNOWN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAKING SUFFICIENT EXPLORATIONS TO LOCATE ALL UTILITIES AND SUBSTRUCTURES WHETHER SHOWN ON THE PLANS OR NOT AND TO PROTECT THEM FROM ANY POSSIBLE DAMAGE PRIOR TO AND DURING CONSTRUCTION. THE EXPENSE OF REPAIR OR REPLACEMENT OF SAID UTILITIES AND SUBSTRUCTURES SHALL BE BORNE BY THE CONTRACTOR. CONTRACTOR SHALL NOTIFY THE ENGINEER-OF-WORK OF ANY POTENTIAL CONFLICTS SUFFICIENTLY IN TIME FOR CONSTRUCTION CHANGES TO BE MADE AND APPROVED.

7. THE CONTRACTOR SHALL CONTACT THE UNDERGROUND SERVICE ALERT AT 1-800-422-4133 AT LEAST 48 HOURS PRIOR TO EXCAVATING TO VERIFY THE LOCATIONS OF UNDERGROUND FACILITIES OF THE FOLLOWING UTILITIES:

   COX COMMUNICATIONS OR ADELPHIA COMMUNICATIONS
   PACIFIC BELL/SBC
   SAN DIEGO GAS & ELECTRIC/SEMPRA
   VALLECITOS WATER DISTRICT

   A DIG ALERT IDENTIFICATION NUMBER MUST BE ISSUED BEFORE A "PERMIT TO EXCAVATE" IS VALID PER GOVERNMENT CODE SECTION 4216/4217.

8. AN AS-BUILT DRAWING SHALL BE SUBMITTED FOR ALL PUBLIC IMPROVEMENTS PRIOR TO ACCEPTANCE OF SAID IMPROVEMENTS.

9. THE ENGINEER-OF-WORK SHALL BE NOTIFIED WHEN CONSTRUCTION COMMENCES.

10. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION/GRADING OF SLOPES, PADS, STREET GRADES AND INFRASTRUCTURE IMPROVEMENTS ACCORDING TO THESE PLANS. THE ENGINEER-OF-WORK SHALL BE CONTACTED WHEN CHANGES OR ADDITIONS MADE DURING THE PROGRESS OF CONSTRUCTION OR IF THERE IS A MISUNDERSTANDING OF THESE PLANS OR FIELD STAKES AND AN INTERPRETATION IS NEEDED. CERTIFICATION FROM THE REGISTERED CIVIL ENGINEER STATING THAT THE GRADING HAS BEEN COMPLETED PER THE APPROVED PLAN, AND THE COMPACTION REPORT FROM THE GEOTECHNICAL ENGINEER ON ANY REQUIRED FILL AREAS SHALL BE PROVIDED PRIOR TO BUILDING PERMITS BEING ISSUED.

11. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ANY MONUMENTATION AND/OR BENCHMARKS. ANY MONUMENTATION AND/OR BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SUCH POINTS SHALL BE REFERENCED AND REPLACED WITH APPROPRIATE MONUMENTATION BY A LICENSED LAND SURVEYOR OR A REGISTERED CIVIL ENGINEER AUTHORIZED TO PRACTICE LAND SURVEYING. A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILED BY THE LICENSED LAND SURVEYOR OR REGISTERED CIVIL ENGINEER AS REQUIRED BY THE LAND SURVEYOR'S ACT.

12. ALL EXISTING FEATURES AND STRUCTURES IN CONFLICT WITH THESE PLANS SHALL BE RELOCATED OR REMOVED AT THE DEVELOPER'S EXPENSE.

13. MINIMUM 90% COMPACTION IS REQUIRED IN ALL ON-SITE FILL AREAS WITH A MINIMUM OF 95% COMPACTION SIX INCHES (6") BELOW FINISHED SUBGRADE IN A PUBLIC STREET.

14. ALL PUBLIC IMPROVEMENTS SHOWN ON THESE IMPROVEMENT PLANS SHALL BE CONSTRUCTED TO THE SATISFACTION OF THE PUBLIC WORKS DIRECTOR PRIOR TO OCCUPANCY OF ANY BUILDING.

15. ALL OPERATIONS CONDUCTED ON THE PREMISES, INCLUDING THE WARMING UP, REPAIR, ARRIVAL, DEPARTURE OR RUNNING OF ANY EQUIPMENT SHALL BE LIMITED TO THE HOURS OF 7:00 A.M. TO 4:30 P.M., MONDAY THROUGH FRIDAY. NO WORK SHALL BE PERFORMED ON THE PREMISES ON SATURDAY, SUNDAY OR HOLIDAYS.

16. NO PRIVATE IRRIGATION MAINS OR CONTROL VALVES SHALL BE PLACED WITHIN THE PUBLIC RIGHT-OF-WAY.

17. CURB RAMPS SHALL BE INSTALLED AT ALL CURB RETURNS PER TITLE 24, PART 2, STATE CHAPTER 71, SITE DEVELOPMENT REQUIREMENTS FOR HANDICAPPED ACCESSIBILITY, SECTION 7103, CURB RAMPS, OF THE CALIFORNIA BUILDING CODE.

18. ALL TRENCH EXCAVATION AND BACKFILL IN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO THE REQUIREMENTS OF THE CITY'S STREET EXCAVATION ORDINANCE NO. 2003-1196 SUBJECT TO APPROVAL FROM THE PUBLIC WORKS INSPECTOR.

19. THESE PLANS HAVE BEEN EXAMINED BY THE CITY'S ENGINEERING DIVISION TO INSURE COMPLIANCE WITH GENERAL ENGINEERING STANDARDS AND THE CITY'S DESIGN STANDARDS AND SPECIFICATIONS.

20. THE ENGINEER-OF-WORK SHALL BEAR THE SOLE RESPONSIBILITY OF THE MATHEMATICAL DATA AND ACCURACY OF DESIGN SHOWN HEREON.

CONT. IMPROVEMENT NOTES

21. IF THE IMPROVEMENTS SHOWN ON THIS PLAN HAVE NOT BEEN CONSTRUCTED AND ACCEPTED BY THE CITY WITHIN TWO (2) YEARS OF THE DATE OF PLAN APPROVAL BY THE CITY ENGINEER, THESE PLANS WILL BE SUBJECT TO REVIEW BY THE CITY'S ENGINEERING DIVISION FOR CONFORMANCE WITH CURRENT CITY STANDARDS, POLICIES AND/OR ADDITIONAL REQUIREMENTS.

22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION, RELOCATION OR REPLACEMENT OF ALL STRIPING, SIGNING OR TRAFFIC DETECTOR LOOPS AS REQUIRED BY THE PUBLIC WORKS DIRECTOR.

23. STREET SIGNING AND STRIPING ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE SUBJECT TO CITY OF SAN MARCOS PUBLIC WORKS DEPARTMENT APPROVAL.

24. DUST CONTROL MEASURES, SUCH AS THE PERIODIC WETTING DOWN OF THE BARE AND EXPOSED AREAS, SHALL BE USED AT ALL TIMES DURING CONSTRUCTION TO THE SATISFACTION OF THE PUBLIC WORKS AND/OR BUILDING INSPECTORS.

25. THE CONTRACTOR IS ADVISED THAT HE IS RESPONSIBLE FOR MAINTAINING THE ADJOINING PUBLIC STREETS AND RIGHT-OF-WAYS IN A CLEAN AND DUST FREE CONDITION WITHIN THE LIMITATION OF THE CITY MUNICIPAL CODE SECTION 14.15.030 "ILLICIT DISCHARGES PROHIBITED." THIS SECTION OF THE CODE PROHIBITS THE "WASHING DOWN" OF A STREET INTO A PUBLIC STORM DRAIN. THE CONTINUOUS USE OF STREET SWEEPING MACHINES MAY BE ADVISABLE.

26. THE ENGINEER-OF-WORK IS NOT RESPONSIBLE FOR GRADING OPERATIONS OR GRADING DONE. THE CONTRACTOR IS SOLELY RESPONSIBLE.

27. A PERMIT MUST BE OBTAINED FROM THE SAN MARCOS FIRE DEPARTMENT PRIOR TO ANY BLASTING. CITY PERMITS ARE REQUIRED PRIOR TO ANY CONSTRUCTION, EXCAVATION, STORAGE OF MATERIALS OR ANY OTHER ENCROACHMENTS.

28. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUALLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNITY AND HOLD THE OWNER, THE ENGINEER AND THE CITY HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER, ENGINEER OR CITY.

29. EROSION CONTROL, INCLUDING RIP-RAP, INTERIM SLOPE PROTECTION, SANDBAGS OR OTHER EROSION CONTROL MEASURES SHALL BE PROVIDED AS NECESSARY TO CONTROL SEDIMENT AND SILT FROM THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL FACILITIES THROUGHOUT THE DEVELOPMENT OF THE PROJECT.

30. A TRAFFIC CONTROL PLAN, INCLUDING THE LAYOUT OF CONSTRUCTION WARNING AND DETOUR SIGNS, SHALL BE SUBMITTED TO THE PUBLIC WORKS DEPARTMENT FOR APPROVAL A MINIMUM OF 14 DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. TRAFFIC CONTROL SHALL BE IMPLEMENTED BEFORE ANY WORK IS STARTED.

DECLARATION OF RESPONSIBLE CHARGE (CITY)

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THIS PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS. I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN MARCOS AND VALLECITOS WATER DISTRICT IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME AS ENGINEER OF WORK OF MY RESPONSIBILITIES FOR THE PROJECT DESIGN.

DECLARATION OF ENGINEER OF WORK (VWD)

I HERE BY DECLARE THAT THE DESIGN OF THE IMPROVEMENTS AS SHOWN ON THESE PLANS COMPLIES WITH PROFESSIONAL ENGINEERING STANDARDS AND PRACTICES. AS THE ENGINEER IN RESPONSIBLE CHARGE FOR SUCH DESIGN. I UNDERSTAND AND ACKNOWLEDGE THAT THE SIGNATURE OF THESE PLANS BY KIMLEY-HORN AND ASSOCIATES, FOR THE VALLECITOS WATER DISTRICT, AND THE REVIEW OF THE PLANS BY THE VALLECITOS DISTRICT, IS A REVIEW OF GENERAL COMPLIANCE WITH DISTRICT STANDARDS. THIS APPROVAL IS NOT A DETERMINATION OF THE TECHNICAL ADEQUACY OR ACCURACY OF THE DESIGN OF THE IMPROVEMENTS. SUCH APPROVAL DOES NOT, THEREFORE, RELIEVE ME OF MY RESPONSIBILITY FOR THE DESIGN OF THESE IMPROVEMENTS.

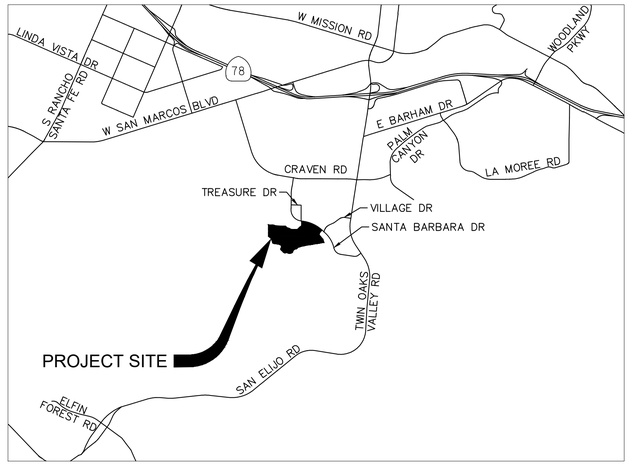
KIMLEY-HORN AND ASSOCIATES
401 B STREET #600
SAN DIEGO, CA 92101
619-234-9411

MARK N. ARAUJO
RCE 85614
EXP. 12/31/22

01/13/2022
DATE

REGISTERED PROFESSIONAL ENGINEER
MARK N. ARAUJO
NO. 85614
CIVIL
STATE OF CALIFORNIA

KIMLEY-HORN
MARK ARAUJO, P.E.
401 B STREET, STE. 600
SAN DIEGO, CA 92101
619.234.9411



VICINITY MAP
N.T.S.

SOURCE OF TOPO

FIELD SURVEY CONDUCTED BY:
SAN DIEGUITO ENGINEERING, INC.
462 STEVENS AVENUE, SUITE 305
SOLANA BEACH, CA. 92075
ON NOVEMBER 5, 2020.

BASIS OF BEARING

BASIS OF BEARINGS:
THE BASIS OF BEARINGS FOR THIS SURVEY IS THE CALIFORNIA COORDINATE SYSTEM OF 1983 (CCS83), ZONE 6, EPOCH 1991.35, AND IS DETERMINED BY G.P.S. MEASUREMENTS TAKEN ON OCTOBER 28TH, 2020 AND WERE ESTABLISHED FROM G.P.S. STATION 1015 AND G.P.S. STATION 1013 PER ROS 13928. THE BEARING FROM G.P.S. STATION 1015 TO G.P.S. STATION 1013 IS NORTH 23°30'55" EAST.

QUOTED BEARINGS FROM REFERENCE MAPS OR DEEDS MAY OR MAY NOT BE IN TERMS OF SAID SYSTEM.

THE COMBINED GRID FACTOR AT G.P.S. STATION 1015 IS 0.999931891.
GRID DISTANCE = GROUND DISTANCE X COMBINED SCALE FACTOR
ELEVATION AT G.P.S. STATION 1015 IS 681.90' NGVD29.

REFERENCE DRAWINGS:

SM DWG NO. GP16-00013
SM DWG NO. IP17-00004
SM DWG NO. IP15-0007

WORK TO BE DONE

THE IMPROVEMENTS CONSISTS OF THE FOLLOWING WORK TO BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING DOCUMENTS:

1. CITY OF SAN MARCOS STANDARD DRAWINGS AND STANDARD SPECIAL PROVISIONS
2. SAN DIEGO AREA REGIONAL STANDARD DRAWINGS
3. STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (2015 "GREEN BOOK")
4. CITY OF SAN MARCOS GRADING AND EXCAVATION ORDINANCE
5. CITY OF SAN MARCOS TRAFFIC SIGNAL MANUAL FOR NEW SIGNAL DESIGNS AND INSTALLATIONS
6. STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARDS PLANS
7. STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD SPECIFICATIONS
8. STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL TO MUTCD
9. VALLECITOS WATER DISTRICT DESIGN CRITERIA, STANDARD DRAWINGS, SPECIFICATIONS AND APPROVED MATERIALS LIST

SITE ADDRESS AND ASSESSOR PARCEL NUMBERS

SOUTH OF SANTA BARBARA DR BETWEEN VILLAGE DR AND TREASURE DR,
SAN MARCOS, CA 92078

ASSESSOR PARCEL NUMBER: 222-170-38-00

OWNER

CITY OF SAN MARCOS
1 CIVIC CENTER DRIVE
SAN MARCOS, CA

STORM WATER SUMMARY

WDID: N/A
PROJECT AREA: 41.85 ACRES
DISTURBED AREA: 6.55 ACRES
IMPERVIOUS AREA: 0 ACRES
STORM WATER DEVELOPMENT PROJECT TYPE: STANDARD TYPE
CITY BMP ID NO: N/AFACILITY TYPE: N/A
MAINTENANCE AGREEMENT DOC #: N/A

SHEET INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	GENERAL NOTES & KEY MAP
3	TYPICALS
4-7	IMPROVEMENT PLANS
8	STAKING PLAN
9-10	CONSTRUCTION DETAILS
11	LANDSCAPE & IRRIGATION NOTES
12-13	LANDSCAPE PLAN
14	IRRIGATION SCHEDULES AND CALCULATIONS
15-16	IRRIGATION PLANS
17	CITY STANDARD DETAILS
18	ELECTRICAL GENERAL NOTES AND DETAILS
19-20	ELECTRICAL PLANS
21-23	WATER POLLUTION CONTROL PLANS

LEGEND

ITEM	QTY	STD DWG	SYMBOL
DIRECTION OF FLOW			←
GRADE BREAK			- - - - - - - - - -
DAYLIGHT LINE			-•-•-•-•-•-•-
RIGHT OF WAY LINE			——— — — ———
CLASS II BASE	83,912 SF		
ASPHALT	2,505 SF		
1" ROCK	64 SF		
LANDSCAPING (BASE BID)	73,739 SF		
LANDSCAPING (ADDITIVE ALT)	68,834 SF		
STABILIZED DECOMPOSED GRANITE	1,120 SF		
WATER			
8" C-900 DR-14 CL-305 WATER MAIN WITH TRACER WIRE	424 LF	W-17	W
6" FIRE HYDRANT	1 EA	W-4, W-5, W-18	
2" BLOW OFF ASSEMBLY	1 EA	W-1	
1" AUTOMATIC AIR AND VACUUM VALVE	1 EA	W-2, W-15	
END CAP W/ THRUST BLOCK	1 EA	W-16	
6" SERVICE W/ 4" GV AND 3" IRRIGATION METER WITH APPROVED BF DEVICE	1 EA	W-11, W-19	W BF
SEWER			
EX. 8" SEWER PVC SDR-35 (PIP)		S-12	S
EX. 4' MH (PIP)		S-1	

ENGINEER OF WORK AS-BUILT CERTIFICATE

AS THE ENGINEER OF WORK, I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE IMPROVEMENTS SHOWN ON THIS SET OF CONSTRUCTION PLANS, SHEET 1 THROUGH SHEET 22, HAVE BEEN INSTALLED AND CONSTRUCTED IN SUBSTANTIAL CONFORMANCE WITH THESE AS-BUILT PLANS, INCLUDING ALL APPROPRIATE STANDARDS AND ANY DISCRETIONARY APPROVAL(S) FOR THE PROJECT.

MARK ARAUJO RCE 85614 EXP. 12/31/22 DATE: _____

Kimley»Horn Kimley-Horn and Associates, Inc. ©2021
401 B Street, Suite 600, San Diego, California 92101
Phone: 619.234.9411 / www.kimley-horn.com

VALLECITOS WATER DISTRICT
PRESSURE ZONE: 920 HGL
PUMP ZONE: N/A

APPROVED AS RECORD PLAN
By: _____ Isaac Etchamendy, City Engineer
R.C.E.: 81294 Date: 9/30/2021

INSPECTED AND RECOMMENDED FOR ACCEPTANCE
_____ Public Works Inspector Date

SAN MARCOS FIRE DEPARTMENT
By: _____ JASON NAILON, FIRE MARSHALL Date
Approved Fire Hydrant Flow 1000 *(gpm) Gallons Per Minute
VWD is not responsible for maintenance, repair or replacement of fire hydrants unless specified under separate agreement with the San Marcos fire Department.

VALLECITOS WATER DISTRICT
By: _____ JAMES H. GUMPEL, P.E. Date
DISTRICT ENGINEER
R.C.E. NO. C60160 exp: 6/22

ENGINEER OF WORK
By: MARK N. ARAUJO
R.C.E.: 85614 exp: 12/31/2022
Date: 1/18/2022

CITY APPROVED CHANGES

No.	Description	App'd By	Date

RECOMMENDED FOR APPROVAL
By: _____ Brian Banzuelo, Associate Civil Engineer
R.C.E.: 83315 exp.: 3/31/2023
Date: _____

APPROVED FOR CONSTRUCTION
By: _____ Isaac Etchamendy, City Engineer
R.C.E.: 81294 exp.: 9/30/2023
Date: _____

BENCH MARK
Description: City of San Marcos Control Station CP-025
Location: N. 1,988,054.81 , E. 6,281,531.41
Record From: NVS LS6310 CP-025
Elev.: 770.99' [768.69'] Datum: NAVD88 (FEET, NGVD 29) (FEET, USING VERTICAL DATUM NGVD 29)

CITY OF SAN MARCOS
TITLE SHEET FOR:
RANCHO CORONADO PARK IMPROVEMENTS

CIP# PK006
City Drawing No.
IP21-00011
Sheet 1 of 23

VWD WO#-250092

Drawing name: K:\SND_MEM\109524104 - Rancho Coronado\Design\Plan Sheets\524104-CV.dwg 1 COVER SHEET Jan 18, 2022 8:47am by: Madeline.David

VALLECITOS WATER DISTRICT GENERAL NOTES

1. ALL WATER AND SEWER LINES SHALL BE INSTALLED ACCORDING TO THE CURRENT STANDARD SPECIFICATIONS DRAWINGS AND APPROVED MATERIAL LIST OF THE VALLECITOS WATER DISTRICT FOR THE CONSTRUCTION OF WATER AND SEWER FACILITIES.

2. WATER LINES SHALL HAVE A MINIMUM COVER OF 42 INCHES. SEWER LINES SHALL HAVE A MINIMUM COVER OF 5 FEET.

3. CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES 48 HOURS PRIOR TO CONSTRUCTION. A VALID UNDERGROUND SERVICE ALERT TICKET SHALL BE ON FILE.

   VALLECITOS WATER DISTRICT..... 1-760-744-0460
   COX COMMUNICATION..... 1-800-227-2600
   S.D.G. & E. 1-800-227-2600
   AT&T 1-800-227-2600
   UNDERGROUND SERVICE ALERT 811

4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF ALL SUBSTRUCTURES, WHETHER SHOWN ON THE PLANS OR NOT, AND PROTECT THEM FROM DAMAGE. THE ACTUAL LOCATION AND DEPTH OF ALL EXISTING WATER AND SEWER LINES IS TO BE VERIFIED BY THE CONTRACTOR AND ANY DISCREPANCY IS TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF WORK FOR CORRECTION AND THEN SUBMITTED TO THE DISTRICT FOR APPROVAL.

5. NEITHER THE ENGINEER, OWNER NOR THE VALLECITOS WATER DISTRICT SHALL BE RESPONSIBLE FOR THE ENFORCEMENT OF SAFETY STANDARDS.

6. A PRECONSTRUCTION CONFERENCE MEETING WITH VALLECITOS WATER DISTRICT PERSONNEL SHALL BE HELD A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO CONSTRUCTION.

7. A SIGNED SET OF IMPROVEMENT PLANS DOES NOT IMPLY THAT CONSTRUCTION MAY BEGIN. THE CONTRACTOR MUST CONTACT THE VALLECITOS WATER DISTRICT ENGINEERING DEPARTMENT.

8. ANY PROPOSED CHANGES IN THE APPROVED IMPROVEMENT PLANS MUST BE REVIEWED AND APPROVED BY THE DISTRICT PRIOR TO THE INSTALLATION OF SUCH CHANGES AND THE CHANGES SHALL BE SHOWN ON THE IMPROVEMENT PLANS.

9. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO MAINTAIN AT ALL TIMES ON THE JOB SITE, AN "AS-BUILT" RECORD OF ALL WATER AND SEWER MAINS AND APPURTENANCES INSTALLED UNDER HIS CONTRACT AND PROVIDE SAID RECORD TO THE ENGINEER AT THE COMPLETION OF THE CONTRACT. THE ENGINEER SHALL PROVIDE TWO (2) RED-LINED SETS OF "AS-BUILTS" TO THE DISTRICT PRIOR TO THE WATER AND SEWER SYSTEM BEING PLACED INTO SERVICE, AND A FINAL "AS-BUILT" MYLAR AS A CONDITION OF ACCEPTANCE OF THE WATER AND SEWER SYSTEM.

10. ALL CONTRACTORS WORKING IN THE PUBLIC RIGHTS-OF-WAY SHALL OBTAIN A SEPARATE ENCROACHMENT PERMIT OR EXCAVATION PERMIT FROM THE APPROPRIATE AGENCY. INSPECTION OF ALL WORK IS REQUIRED. FORTY-EIGHT (48) HOURS ADVANCE NOTICE IS REQUIRED FOR INSPECTION. (NO WORK SHALL BE PERFORMED IN THE PUBLIC RIGHT-OF-WAY OR DISTRICT EASEMENTS OR ON DISTRICT FACILITIES ON SATURDAYS, SUNDAYS OR LEGAL HOLIDAYS OBSERVED BY THE DISTRICT AND/OR THE CITY WITHOUT THE EXPRESS PERMISSION OF THE DISTRICT.

11. CONTRACTOR SHALL POTHOLE (EXCAVATE AND EXPOSE) ALL UTILITIES ALONG CONSTRUCTION EXCAVATION CORRIDOR AS SHOWN ON PLANS OR IDENTIFIED BY USA MARK-OUT. THE POTHOLE INFORMATION (UTILITY SIZE, TYPE, LOCATION, ELEVATION, GRADE AND ALIGNMENT) SHALL BE SUBMITTED TO VALLECITOS WATER DISTRICT PRIOR TO CONSTRUCTION. IN ADDITION, POTENTIAL CONFLICTS WITH EXISTING UTILITIES, AS IDENTIFIED BY CONTRACTOR, SHALL BE SUBMITTED PRIOR TO CONSTRUCTION. CONSEQUENCES OF CONTRACTOR'S FAILURE TO POTHOLE AND PROVIDE INFORMATION TO DISTRICT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY AND LIABILITY.

12. A BLASTING PLAN SHALL BE SUBMITTED FOR DISTRICT APPROVAL PRIOR TO THE USE OF EXPLOSIVES NEAR DISTRICT FACILITIES.

13. STREETS AND EASEMENTS SHALL BE CONSTRUCTED TO COMPACTED SUB GRADE PRIOR TO INSTALLATION OF THE PUBLIC WATER OR SEWER SYSTEM UNLESS APPROVED BY DISTRICT ENGINEER. ANY EXISTING WATER AND SEWER FACILITIES MUST REMAIN ACCESSIBLE AND AT GRADE AT ALL TIMES.

14. ALL WATER LINES SHALL BE PVC, C900 DR14, OR AS NOTED. ALL FITTINGS ARE TO BE PUSH ON, UNLESS OTHERWISE SHOWN AND APPROVED BY THE DISTRICT ENGINEER. NO DEFLECTION WILL BE ALLOWED FOR PVC PIPE. THE USE OF HIGH DEFLECTION COUPLINGS IS ALLOWED. ALL SEWER LINES SHALL BE BELL AND SPIGOT SDR35 PVC GREEN PIPE, OR AS NOTED. LATERALS MAY BE WHITE OR GREEN.

15. A 10 GAUGE INSULATED TRACER WIRE (BLUE) WITH WARNING TAPE SHALL BE INSTALLED IN A CONTINUOUS RUN ALONG PVC WATER MAINS TO AND FROM SNAKE PIT CD-14 TRACER BOXES LOCATED IN FIRE HYDRANT PADS. NO SPLICES UNLESS APPROVED BY VALLECITOS WATER DISTRICT (VWD).

16. THE CONTRACTOR SHALL TEST HIS LINES AGAINST HIS OWN BLOCKING AND NOT AGAINST DISTRICT VALVES.

17. UPON CONNECTION OF THE NEW WATER SYSTEM TO THE EXISTING SYSTEM, ALL VALVES ON THE EXISTING AND NEW SYSTEM SHALL BE OPERATED ONLY BY DISTRICT PERSONNEL. THE DEVELOPER OR CONTRACTOR SHALL NOTIFY DISTRICT INSPECTOR IN WRITING A MINIMUM OF 6 WORKING DAYS PRIOR TO A PLANNED SHUTDOWN. ALL SHUTDOWNS REQUIRE STATE CERTIFIED BACTERIA TEST.

18. UNLESS OTHERWISE SHOWN, SEWER LATERALS AND WATER SERVICES SHALL BE RUN PERPENDICULAR TO THE MAIN.

19. THE MINIMUM SIZE FOR WATER SERVICES SHALL BE ONE-INCH (1"). ALL WATER SERVICES SHALL BE MARKED WITH A "W" ON THE CURB AND SHALL BE SHOWN ON THE "AS-BUILT" DRAWINGS.

20. ALL INSTALLATIONS WITH STATIC PRESSURE GREATER THAN 175 PSI FOR ¾" & 1" METERS OR 200 PSI FOR 1 ½" & 2" METERS WILL REQUIRE A PRESSURE REGULATING VALVE TO BE INSTALLED BEFORE THE WATER METER. 1" HIGH PRESSURE WATER SERVICES WILL REQUIRE A #6B METER BOX. AN ADDITIONAL PRESSURE REGULATING VALVE MAY BE INSTALLED AFTER THE METER AS DEEMED NECESSARY BY THE OWNER/DEVELOPER TO PROTECT ON-SITE FIXTURES.

21. ALL MATERIALS SHALL BE UTILIZED ONLY WITHIN THE PRESSURE RATING OF THE DEVICE.

22. SEWER MAINS SHALL BE CONSTRUCTED WITH A CONSISTENT GRADE BETWEEN MANHOLES. THE USE OF HORIZONTAL OR VERTICAL CURVES SHALL NOT BE ALLOWED.

23. ALL SEWER LATERALS SHALL BE CONSTRUCTED TO A MINIMUM FIVE-FOOT (5') DEPTH (TO TOP OF PIPE) AT PROPERTY LINE AND SHALL BE CLEAR OF DRIVEWAYS. ALL LATERALS SHALL BE CLEARLY MARKED WITH AN "S" ON THE CURB AND SHALL BE SHOWN ON THE "AS-BUILT" DRAWINGS. SEWER SERVICE LATERALS ARE TO BE INSTALLED PERPENDICULAR TO THE MAIN WITH NO BENDS.

24. ALL ABANDONED SEWER LATERALS SHALL BE CAPPED AT THE MAIN. ALL ABANDONED WATER SERVICES SHALL BE PLUGGED OFF AT THE MAIN, AND THE CONNECTION SEVERED. BAILS AND SERVICE SADDLES OTHER THAN BRASS SHALL BE REPLACED PRIOR TO ABANDONMENT. RELOCATE EXISTING SERVICES AS DIRECTED BY THE DISTRICT ENGINEER. WATER MAIN STUBS WHICH ARE NOT USED SHALL BE ABANDONED AT THE MAIN BY REMOVING VALVE AND INSTALLING BLIND FLANGE AT TEE. SHUTDOWN OF WATER MAINS MAY BE REQUIRED DURING ABANDONMENT. ABANDONING EXISTING WATER OR SEWER MAINS SHALL CONSIST OF REMOVAL OR SLURRY FILL AS APPROVED BY DISTRICT.

25. DEVELOPER OR CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ACP PIPE WHICH SHALL BE PERFORMED BY A CONTRACTOR REGISTERED BY CAL/OSHA AND CERTIFIED BY THE STATE CONTRACTORS LICENSING BOARD FOR ASBESTOS REMOVAL.

26. WATER SERVICES WHICH ARE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED IN FULL WITH A COPPER SERVICE PER DISTRICT SPECIFICATIONS AS DIRECTED BY THE DISTRICT. SEWER LATERALS OR WYES DAMAGED OR MODIFIED DURING CONSTRUCTION SHALL BE REPLACED IN FULL, AS DIRECTED BY THE DISTRICT.

27. RELOCATION OR EXTENSION OF AN EXISTING WATER METER SHALL MEAN INSTALLATION OF THE METER AT A LOCATION IN CONFORMANCE WITH DISTRICT SPECIFICATIONS AS DIRECTED BY THE DISTRICT AND PERPENDICULAR TO THE MAINLINE CONNECTION, UNLESS OTHERWISE NOTED. SERVICE LATERALS OTHER THAN COPPER SHALL BE REPLACED TO THE MAIN. BAILS AND SERVICE SADDLES OTHER THAN BRASS SHALL ALSO BE REPLACED. SHUTDOWN OF MAIN MAY BE REQUIRED.

28. PRIOR TO ACCEPTANCE OF ANY SEWER LINE BY THE DISTRICT, ALL MAINS SHALL BE AIR TESTED, FLUSHED CLEAN USING A VACTOR TRUCK, AND SHALL PASS A 5% MANDREL THROUGH THE PIPE. A VIDEO CAMERA INSPECTION OF THE SEWER MAIN SHALL BE CONDUCTED BY PRIVATE CONTRACTOR.

29. THE DISTRICT WILL NOT SUPPLY WATER SERVICE, EXCEPT FOR FIRE PROTECTION, TO ANY PROJECT UNTIL ALL PROVISIONS OF THE DISTRICT STANDARDS AND IMPROVEMENT PLANS HAVE BEEN MET, AND FINAL ACCEPTANCE OF THE PROJECT HAS BEEN GRANTED BY THE DISTRICT BOARD OF DIRECTORS.

30. ALL VWD EASEMENTS ARE EXCLUSIVE FOR VWD WATER AND SEWER FACILITIES ONLY. NO OTHER UTILITIES ARE ALLOWED WITHIN VWD EASEMENTS. CROSSING MAY BE ALLOWED PROVIDED THERE IS A MINIMUM OF 12-INCHES VERTICAL SEPARATION. CROSSINGS MUST BE PRE-APPROVED BY VWD AND PROCESSED THROUGH THE ENGINEERING DEPARTMENT WITH THE RECORDATION OF AN ENCROACHMENT AGREEMENT. THE VWD EASEMENT AND ENCROACHMENT AGREEMENT RECORDED DOCUMENT NUMBERS MUST BE NOTED ON PLANS.

31. THE INTERIOR OF MANHOLES GREATER THAN 48-INCH IN DIAMETER SHALL BE COATED WITH A POLYURETHANE LINING SYSTEM.

32. ALL FIRE HYDRANT TOPS SHALL BE PAINTED IN ACCORDANCE WITH NFPA 291, AS DIRECTED BY THE LOCAL FIRE PROTECTION AGENCY.

GENERAL NOTES

1. APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A PERMIT HAS BEEN ISSUED.

2. UPON ISSUANCE OF A PERMIT, NO WORK WILL BE PERMITTED ON WEEKENDS OR HOLIDAYS UNLESS APPROVED BY TRAFFIC CONTROL PERMIT FROM THE DEVELOPMENT SERVICES DEPARTMENT.

3. THE APPROVAL OF THIS PLAN OR ISSUANCE OF A PERMIT BY THE CITY OF SAN MARCOS DOES NOT AUTHORIZE THE UTILITY COMPANY TO VIOLATE ANY FEDERAL, STATE OR CITY LAWS, ORDINANCES, REGULATIONS, OR POLICIES.

4. IMPORTANT NOTICE: SECTION 4216 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT, TOLL FREE (800) 422-4133, TWO DAYS BEFORE YOU DIG.

5. CONTRACTOR SHALL BE RESPONSIBLE FOR POTHOLING AND LOCATING ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE WHILE MAINTAINING A 1 FOOT VERTICAL CLEARANCE.

6. "PUBLIC IMPROVEMENT SUBJECT TO DESUETUDE OR DAMAGE." IF REPAIR OR REPLACEMENT OF SUCH PUBLIC IMPROVEMENTS IS REQUIRED, CONTRACTOR SHALL OBTAIN THE REQUIRED PERMITS FOR WORK IN THE PUBLIC RIGHT-OF-WAY, SATISFACTORY TO THE PERMIT ISSUING AUTHORITY.

7. DEVIATIONS FROM THESE SIGNED PLANS WILL NOT BE ALLOWED UNLESS A CONSTRUCTION CHANGE IS APPROVED BY THE CITY ENGINEER OR THE CHANGE IS REQUIRED BY THE RESIDENT ENGINEER.

8. CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUITS, AND LANE STRIPING DAMAGED BY CONTRACTOR DURING CONSTRUCTION.

9. PRIOR TO SITE DISTURBANCE, CONTRACTOR SHALL MAKE ARRANGEMENTS FOR A PRECONSTRUCTION MEETING WITH THE CITY OF SAN MARCOS.

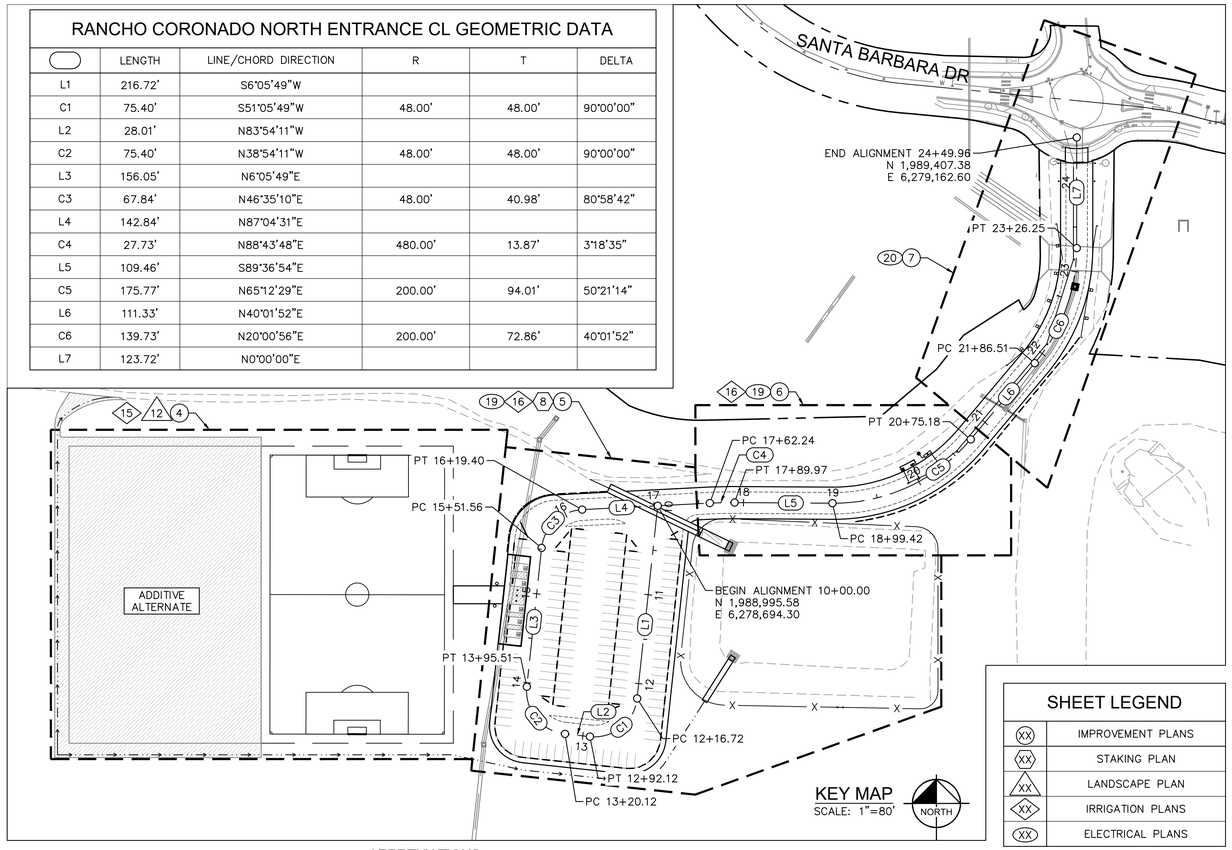
10. CONTRACTOR SHALL ONLY PERFORM SITE SURVEY AND UTILITY MARK OUT SERVICES PRIOR TO THE PRECONSTRUCTION MEETING.

11. CONTRACTOR SHALL IMPLEMENT AN EROSION CONTROL PROGRAM DURING THE PROJECT CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCES CONTROL BOARD.

12. CONTRACTOR SHALL HAVE EMERGENCY MATERIAL AND EQUIPMENT ON HAND FOR UNFORESEEN SITUATIONS, SUCH AS DAMAGE TO UNDERGROUND WATER, SEWER, AND STORM DRAIN FACILITIES WHERE FLOW MAY GENERATE EROSION AND SEDIMENT POLLUTION.

RANCHO CORONADO NORTH ENTRANCE CL GEOMETRIC DATA

	LENGTH	LINE/CHORD DIRECTION	R	T	DELTA
L1	216.72'	S6°05'49"W			
C1	75.40'	S51°05'49"W	48.00'	48.00'	90°00'00"
L2	28.01'	N83°54'11"W			
C2	75.40'	N38°54'11"W	48.00'	48.00'	90°00'00"
L3	156.05'	N6°05'49"E			
C3	67.84'	N46°35'10"E	48.00'	40.98'	80°58'42"
L4	142.84'	N87°04'31"E			
C4	27.73'	N88°43'48"E	480.00'	13.87'	3°18'35"
L5	109.46'	S89°36'54"E			
C5	175.77'	N65°12'29"E	200.00'	94.01'	50°21'14"
L6	111.33'	N40°01'52"E			
C6	139.73'	N20°00'56"E	200.00'	72.86'	40°01'52"
L7	123.72'	N0°00'00"E			



SHEET LEGEND

XX	IMPROVEMENT PLANS
XX	STAKING PLAN
XX	LANDSCAPE PLAN
XX	IRRIGATION PLANS
XX	ELECTRICAL PLANS

CONT. GENERAL NOTES

13. MANHOLES AND PULL BOX COVER SHALL BE LABELED WITH NAME OF COMPANY.

14. AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE RESIDENT ENGINEER PRIOR TO ACCEPTANCE OF THIS PROJECT BY THE CITY OF SAN MARCOS.

15. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 1 FOOT VERTICAL SEPARATION TO ALL UTILITIES UNLESS OTHERWISE SPECIFIED ON PLANS.

16. CONTRACTOR SHALL REMOVE AND REPLACE ALL UTILITY BOXES SERVING AS HANDHOLES THAT ARE NOT IN "AS-NEW" CONDITION IN PROPOSED SIDEWALK, DAMAGED BOXES, OR THOSE THAT ARE NOT IN COMPLIANCE WITH CURRENT CODE SHALL BE REMOVED AND REPLACED WITH NEW BOXES, INCLUDING WATER, SEWER, TRAFFIC SIGNALS, STREET LIGHTS, DRY UTILITIES-SDG&E, COX, ETC. ALL NEW METAL LIDS SHALL BE SLIP RESISTANT AND INSTALLED FLUSH WITH PROPOSED SIDEWALK GRADE. IF A SLIP RESISTANT METAL LID IS NOT COMMERCIALLY AVAILABLE FOR THAT USE, NEW BOXES AND LIDS SHALL BE INSTALLED.

17. CONTRACTOR SHALL INSTALL CITY APPROVED TEMPORARY VIDEO OR RADAR DETECTION WHEN EXISTING TRAFFIC SIGNAL DETECTION SYSTEMS ARE DAMAGED, DISABLED, OR BECOME INEFFECTIVE DUE TO CONSTRUCTION ACTIVITIES FOR A PERIOD OF FIVE (5) OR MORE DAYS, SATISFACTORY TO THE CITY ENGINEER, THE CONTRACTOR SHALL COMPLETELY REMOVE ALL TEMPORARY TRAFFIC SIGNAL DETECTION EQUIPMENT AND RESTORE/INSTALL A CITY APPROVED PERMANENT VEHICLE DETECTION SYSTEM UPON COMPLETION OF CONSTRUCTION, SATISFACTORY TO THE CITY ENGINEER.

18. PRIOR TO CONSTRUCTION, SURVEY MONUMENTS THAT ARE LOCATED IN THE CONSTRUCTION AREA SHALL BE TIED-OUT AND REFERENCED BY A LAND SURVEYOR.

19. UPON COMPLETION OF CONSTRUCTION, ALL DESTROYED SURVEY MONUMENTS ARE REQUIRED TO BE REPLACED, AND A CORNER RECORD OR RECORD OF SURVEY SHALL BE PREPARED AND FILED WITH THE COUNTY SURVEYOR AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT, SECTION 8771 OF THE BUSINESS AND PROFESSIONS CODE OF THE STATE OF CALIFORNIA.

ABBREVIATIONS:

ADA	AMERICANS WITH DISABILITIES ACT
ARV	AIR RELEASE VALVE
AVE	AVENUE
BFP, BF	BACK FLOW PREVENTER
BOC	BACK OF CURB
BLVD	BOULEVARD
C&G	CURB AND GUTTER
CL, ℄	CENTERLINE
CO	CLEANOUT
DG	DECOMPOSED GRANITE
DR	DRIVE
E	EAST, EASTING
EA	EACH
EC	END OF CURB
EG	EXISTING GROUND
EL	ELEVATION
EX, EXIST	EXISTING
FG	FINISHED GRADE
FL	FLOW LINE
FS	FINISHED SURFACE
ICV	IRRIGATION CONTROL VALVE
INV	INVERT
IE	INVERT ELEVATION
K	K VALUE
MAX	MAXIMUM
ME	MATCH EXISTING
MGS	MIDWEST GUARDRAIL SYSTEM
MIN	MINIMUM
MSE	MECHANICALLY STABILIZED EARTH
MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
N	NORTH, NORTHING
PC	POINT OF CURVATURE
PIP	PROTECT IN PLACE
PCC	PORTLAND CEMENT CONCRETE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE / POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
QTY	QUANTITY
R	RADIUS
RET.	RETAINING
RD	ROAD
SD	STORM DRAIN
SDRSD	SAN DIEGO REGIONAL STANDARD DRAWING
SL	STREET LIGHT
ST	STREET
STA	STATION
SW	SIDEWALK
TB	THRUST BLOCK
TEMP	TEMPORARY
TP	TELEPHONE POLE / TOP OF PIPE
W	WEST

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401 B Street, Suite 600, San Diego, California 92101
Phone: 619.234.9411 / www.kimley-horn.com

VALLECITOS WATER DISTRICT
PRESSURE ZONE: 920 HGL
PUMP ZONE: N/A

AS-BUILT
(SIGNATURE) (DATE)
(PRINTED NAME) LICENSE NO.

INSPECTED AND RECOMMENDED FOR ACCEPTANCE
Public Works Inspector Date

REGISTERED PROFESSIONAL ENGINEER
MARK N. ARAUJO
NO. 85614
CIVIL
STATE OF CALIFORNIA

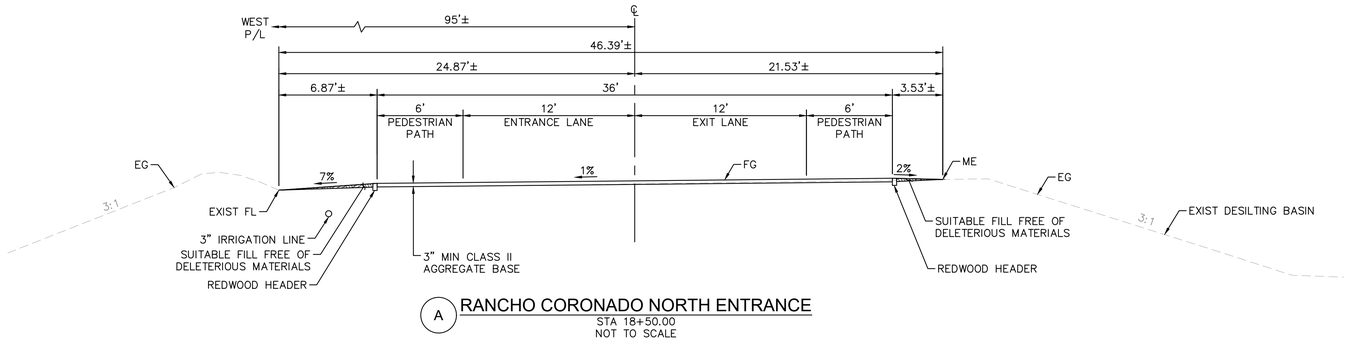
SAN MARCOS FIRE DEPARTMENT	VALLECITOS WATER DISTRICT	ENGINEER OF WORK	CITY APPROVED CHANGES	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK
By: JASON NAILON, FIRE MARSHALL Date	By: JAMES H. GUMPEL, P.E. Date	By: MARK N. ARAUJO	No. Description App'd By Date	By: Brian Banzuelo, Associate Civil Engineer	By: Isaac Etchamendy, City Engineer	Description: City of San Marcos Control Station CP-025
Approved Fire Hydrant Flow 1000 *(gpm) Gallons Per Minute	DISTRICT ENGINEER	R.C.E.: 85614 exp: 12/31/2022		R.C.E.: 83315 exp.: 3/31/2023	R.C.E.: 81294 exp.: 9/30/2023	Location: N. 1,988,054.81 , E. 6,281,531.41
VWD is not responsible for maintenance, repair or replacement of fire hydrants unless specified under separate agreement with the San Marcos fire Department.	R.C.E. NO. C60160 exp: 6/22	Date: 1/18/2022		Date:	Date:	Record From: NVS LS6310 CP-025 Elev.: 770.99' [768.69'] Datum: NAVD88 (TBM), NGVD 29 (USING VERTICAL DATUM, NGVD 29)

CITY OF SAN MARCOS
GENERAL NOTES AND KEYMAP FOR:
RANCHO CORONADO PARK IMPROVEMENTS

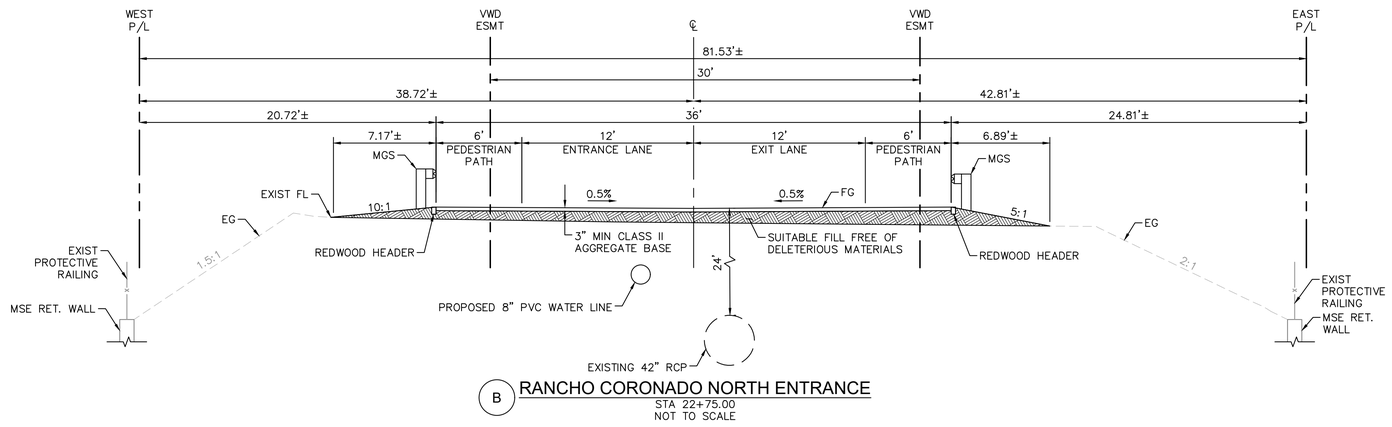
CIP# PK006
City Drawing No.
IP21-00011
Sheet 2 of 23

VWD WO#-250092

Drawing name: K:\SND_MUNI\095824104 - Rancho Coronado\Design\Plan Sheets\824104-GN.dwg GENERAL NOTES Jan 18, 2022 8:47am by: Madeline.David



A RANCHO CORONADO NORTH ENTRANCE
STA 18+50.00
NOT TO SCALE



B RANCHO CORONADO NORTH ENTRANCE
STA 22+75.00
NOT TO SCALE

REGISTERED PROFESSIONAL ENGINEER
MARK N. ARAUJO
NO. 85614
CIVIL
STATE OF CALIFORNIA

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401 B Street, Suite 600, San Diego, California 92101
Phone: 619.234.9411 / www.kimley-horn.com

AS-BUILT	INSPECTED AND RECOMMENDED FOR ACCEPTANCE
(SIGNATURE) DATE	
(PRINTED NAME) 85614 LICENSE NO.	Public Works Inspector Date

CIP# PK006

SAN MARCOS FIRE DEPARTMENT	VALLECITOS WATER DISTRICT	ENGINEER OF WORK	CITY APPROVED CHANGES	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK
By: JASON NAILON, FIRE MARSHALL Date	By: JAMES H. GUMPEL, P.E. Date	By: MARK N. ARAUJO	No. Description App'd By Date	By: Brian Banzuelo, Associate Civil Engineer	By: Isaac Etchamendy, City Engineer	Description: City of San Marcos Control Station CP-025
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CITY OF SAN MARCOS
CROSS SECTIONS FOR:
RANCHO CORONADO PARK IMPROVEMENTS

City Drawing No.
IP21-00011
Sheet 3 of 23

VWD WO#-250092

Drawing name: K:\SAN_MUNI\095824104 - Rancho Coronado\Design\Plan Sheets\824104-TX.dwg TX-01 Jan 18, 2022 8:47am by: Madeline David

MATCHLINE SEE BELOW RIGHT

FL: 696.85
FS: (697.43)
FL: 696.95
FS: 697.77
FS: 693.69
FS: 689.61
37 (TYP)
FL: 697.10
FL: 698.45
FL: 698.80
FL: 699.10
FL: 699.66
FS: (700.27)
FS: 700.32
FL: 698.60
FL: 697.00
FL: 696.64
FS: 697.55
FL: 696.00
FL: 694.75
FL: 694.40
FS: (694.56)
FS: 694.79
10'
13'
331.78'
214.74'
214.74'
20'
16'
3.94%
1.47%
698
699
700
697
696
695
694
693
691
690
1.90%
0.77%
2.05%
1.84%
1.12%
1.85%
1.22%
2.03%
1.90%
1.56%
2.46%
1.59%
1.07%
1.92%
1.74%
1.11%
1.75%
1.25%
2.04%
1.65%
1.66%
1.29%
1.50%
1.36%
1.46%
1.21%
1.56%
1.62%
1.25%
25
8
23
37
A 10
E 9
C 9

ADDITIVE ALTERNATE

MATCHLINE SEE SHEET 5

LEGEND

- 3" MIN CLASS II AGGREGATE BASE
- 4" ASPHALT CONCRETE OVER 3" CLASS II BASE
- NEW TURF (REFER TO LANDSCAPE AND IRRIGATION PLANS ON SHEETS 11–15)
- NEW CONCRETE
- DECOMPOSED GRANITE
- ADDITIVE ALTERNATE
- GRADE BREAK
- DAYLIGHT LINE
- FLOW LINE
- DIRECTION OF FLOW

GENERAL NOTES

1. UNLESS OTHERWISE SHOWN ON PLANS, CONTRACTOR SHALL CLEAR AND GRUB ALL AREAS WITHIN THE PROJECT GRADING LIMITS AND REMOVE ALL IMPEDANCES FOR THE PROPOSED FACILITIES.
2. THE CONTRACTOR SHALL VERIFY THE EXISTENCE AND HORIZONTAL/VERTICAL LOCATION OF ALL UTILITIES WITHIN THE PROJECT AREA THAT MAY CONFLICT WITH THE PROPOSED CONSTRUCTION. CONTRACTOR TO IMMEDIATELY NOTIFY THE ENGINEER OF ANY REMAINING UTILITY CONFLICTS PRIOR TO THE START OF ANY DEMOLITION WORK.
3. PROPOSED IMPROVEMENTS ARE BASED ON NAVD88.

CONSTRUCTION NOTES

(8) FURNISH AND INSTALL NEW TURF PER LANDSCAPE AND IRRIGATION PLANS ON SHEETS 11–15.

(23) CONSTRUCT 4" STABILIZED DG OVER 8" SCARIFIED SUB BASE COMPACTED TO 95% RELATIVE COMPACTION AND FREE FROM DELETERIOUS MATERIALS AND ROCKS 2" OR GREATER. REFER TO ACCESSIBLE PARKING AND FIELD ACCESS STAKING PLAN ON SHEET 8.

(25) BALANCE EARTHWORK WITH SPOILS FROM LOCATIONS ON SITE AS DIRECTED BY THE CITY.

(37) CONSTRUCT GRADED SWALE PER DETAIL C ON SHEET 9.

ADDITIVE ALTERNATE

FL: (695.09)
FL: 695.65
R81'
37 (TYP)
R19'
FL: 696.33
FL: 696.67

MATCHLINE SEE ABOVE LEFT

AS-BUILT		INSPECTED AND RECOMMENDED FOR ACCEPTANCE
(SIGNATURE)	DATE	
(PRINTED NAME)	85614 LICENSE NO.	Public Works Inspector Date

REGISTERED PROFESSIONAL ENGINEER
MARK N. ARAUJO
NO. 85614
CIVIL
STATE OF CALIFORNIA

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

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Phone: 619.234.9411 / www.kimley-horn.com

CIP# PK006

SAN MARCOS FIRE DEPARTMENT	VALLECITOS WATER DISTRICT	ENGINEER OF WORK	CITY APPROVED CHANGES	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK
By: JASON NAILON, FIRE MARSHALL Date	By: JAMES H. GUMPEL, P.E. Date	By: MARK N. ARAUJO	No. Description App'd By Date	By: Brian Banzuelo, Associate Civil Engineer	By: Isaac Etchamendy, City Engineer	Description: City of San Marcos Control Station CP-025
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CITY OF SAN MARCOS

IMPROVEMENT PLAN FOR:

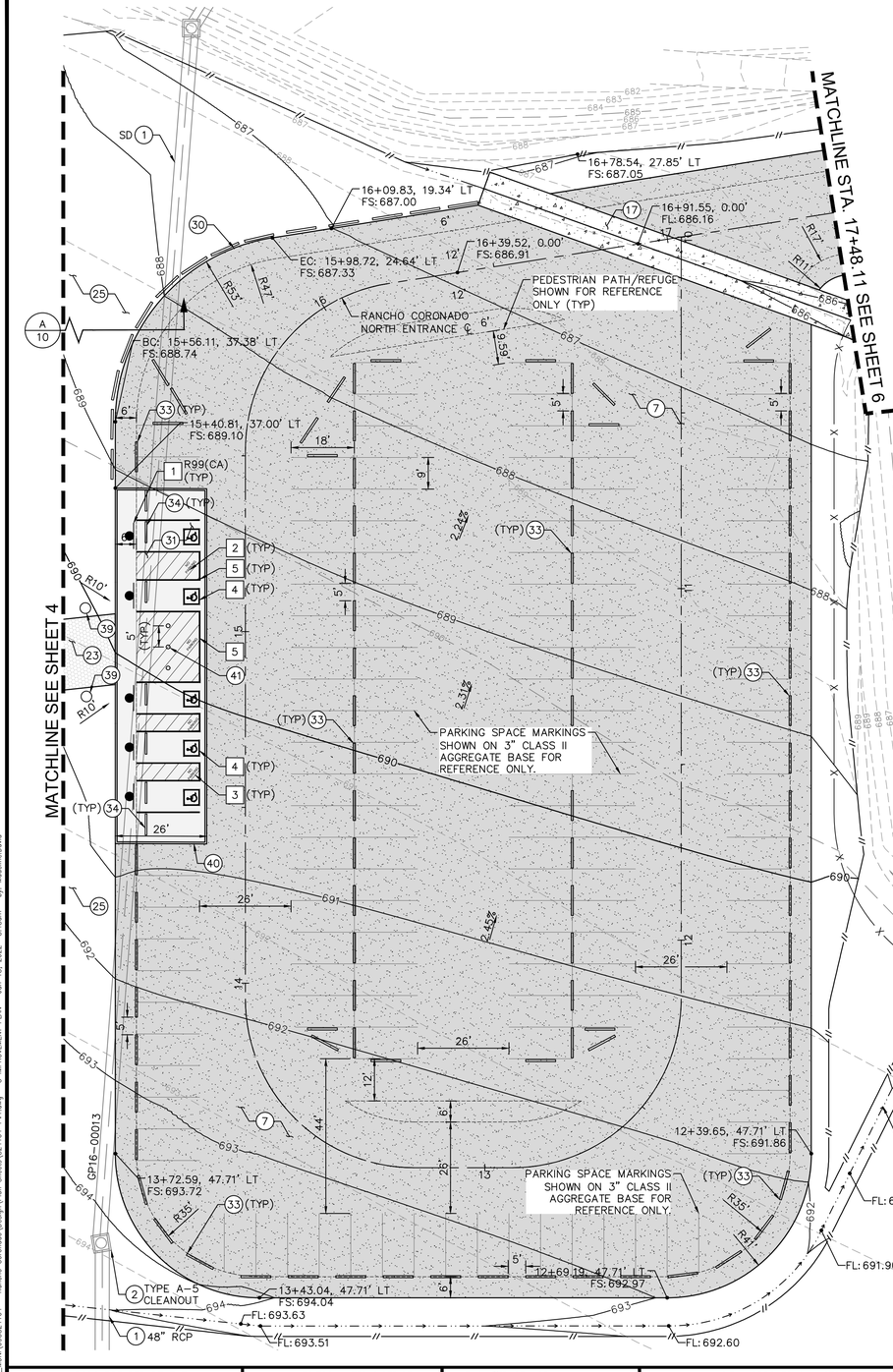
RANCHO CORONADO PARK IMPROVEMENTS

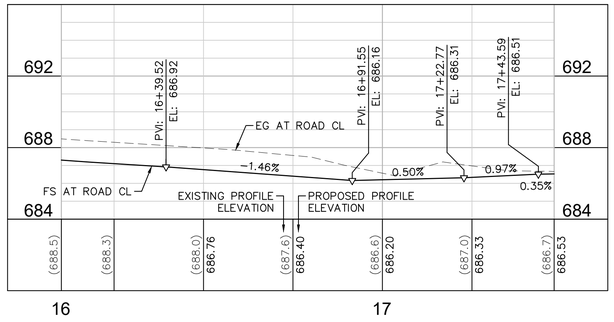
City Drawing No. IP21-00011

Sheet 4 of 23

VWD WO#-250092

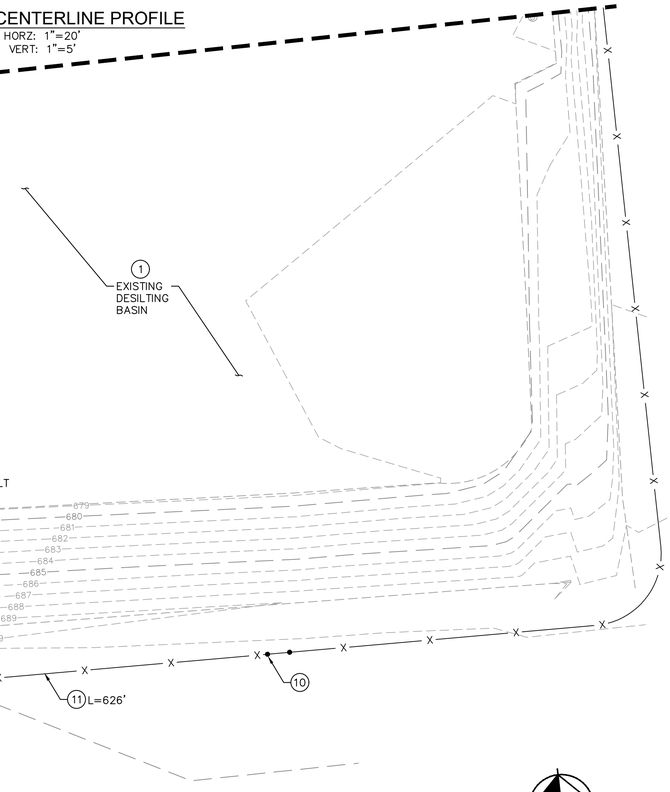
Drawing name: K:\SND_MUNI\095K2\104 – Rancho Coronado\Design\Plan Sheets\K2\104-PV1.dwg 2_IMPROVEMENT PLAN Jan 18, 2022 8:48am by: Madeline David





ROADWAY CENTERLINE PROFILE

HORZ: 1"=20'
VERT: 1"=5'



SIGN LEGEND

R99C(CA)
12"X24"

LEGEND

- 3" MIN CLASS II AGGREGATE BASE
- 4" ASPHALT CONCRETE OVER 3" CLASS II BASE
- NEW TURF (REFER TO LANDSCAPE AND IRRIGATION PLANS ON SHEETS 11–15)
- NEW CONCRETE
- DECOMPOSED GRANITE
- ADDITIVE ALTERNATE
- GRADE BREAK
- DAYLIGHT LINE
- FLOW LINE
- DIRECTION OF FLOW

CONSTRUCTION NOTES

1. PROTECT IN PLACE.
2. ADJUST TO FINISHED GRADE.
7. CONSTRUCT 3" MIN CLASS II AGGREGATE BASE DRIVEWAY AND PEDESTRIAN PATH COMPACTED TO 95% RELATIVE COMPACTION.
10. FURNISH AND INSTALL 6' H X 5' W GALVANIZED CHAIN LINK GATE PER SDRSD M–05 AND M–20.
11. FURNISH AND INSTALL 6' HIGH GALVANIZED CHAIN LINK FENCE PER SDRSD M–06 AND M–20.
17. CONSTRUCT CROSS GUTTER PER SDRSD D–71 MODIFIED PER CROSS GUTTER STAKING DETAIL ON SHEET 8.
23. CONSTRUCT 4" STABILIZED DG OVER 8" SCARIFIED SUB BASE COMPACTED TO 95% RELATIVE COMPACTION AND FREE FROM DELETERIOUS MATERIALS AND ROCKS 2" OR GREATER. REFER TO ACCESSIBLE PARKING AND FIELD ACCESS STAKING PLAN ON SHEET 8.
25. BALANCE EARTHWORK WITH SPOILS FROM LOCATIONS ON SITE AS DIRECTED BY THE CITY.
30. FURNISH AND INSTALL REDWOOD HEADER AT BORDER OF ALL CLASS II AGGREGATE BASE AND DG AREAS PER DETAIL B ON SHEET 10.
31. CONSTRUCT 4" ASPHALT PAVEMENT OVER 3" CLASS II AGGREGATE BASE. REFER TO ACCESSIBLE PARKING AND FIELD ACCESS STAKING PLAN ON SHEET 8.
33. FURNISH AND INSTALL TREATED RAILROAD TIE OR APPROVED EQUAL PER DETAIL E ON SHEET 10.
34. FURNISH AND INSTALL CONCRETE WHEEL STOP PER SDRSD M–27A.
36. CONSTRUCT RIP RAP ENERGY DISSIPATER TYPE 2 PER SDRSD D–40 AND PER DETAIL C AND D ON SHEET 10. (T=1.1').
37. CONSTRUCT GRADED SWALE PER DETAIL C ON SHEET 9.
38. CONSTRUCT CONCRETE BROW DITCH TYPE A PER SDRSD D–75.
39. INSTALL QCP TRASH RECEPTACLE PER CITY STANDARD M–1.
40. CONSTRUCT CONCRETE EDGER PER DETAIL F ON SHEET 10.
41. FURNISH AND INSTALL 4' TALL X 3" OD GALVANIZED BOLLARD. FOUNDATION PER MANUFACTURER'S RECOMMENDATIONS.

GENERAL NOTES

1. UNLESS OTHERWISE SHOWN ON PLANS, CONTRACTOR SHALL CLEAR AND GRUB ALL AREAS WITHIN THE PROJECT GRADING LIMITS AND REMOVE ALL IMPEDANCES FOR THE PROPOSED FACILITIES.
2. THE CONTRACTOR SHALL VERIFY THE EXISTENCE AND HORIZONTAL/VERTICAL LOCATION OF ALL UTILITIES WITHIN THE PROJECT AREA THAT MAY CONFLICT WITH THE PROPOSED CONSTRUCTION. CONTRACTOR TO IMMEDIATELY NOTIFY THE ENGINEER OF ANY REMAINING UTILITY CONFLICTS PRIOR TO THE START OF ANY DEMOLITION WORK.
3. PROPOSED IMPROVEMENTS ARE BASED ON NAVD88.

SIGNING AND MARKING NOTES

1. FURNISH AND INSTALL NEW SIGN ON BREAK–AWAY POST PER SAN DIEGO REGIONAL STANDARD DRAWING M–45.
2. WITHIN THE LOADING AND UNLOADING ACCESS AISLE, PAINT THE WORDS "NO PARKING" IN WHITE, 12" HIGH LETTERS MINIMUM. NO STRIPING THROUGH TEXT.
3. FURNISH AND INSTALL WHITE STRIPES AT 36" MAX ON CENTER (TYP).
4. FURNISH AND INSTALL PAVEMENT SYMBOL PER CALIFORNIA BUILDING CODE 11–B502.3.3 AND SDRSD M–29.
5. FURNISH AND INSTALL BLUE STRIPE AT PERIMETER OF ACCESS AISLES ONLY.

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

AS–BUILT	INSPECTED AND RECOMMENDED FOR ACCEPTANCE
(SIGNATURE) DATE	
(PRINTED NAME) LICENSE NO. 85614	Public Works Inspector Date

REGISTERED PROFESSIONAL ENGINEER — MARK N. ARAUJO NO. 85614 — CIVIL — STATE OF CALIFORNIA

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401 B Street, Suite 600, San Diego, California 92101
Phone: 619.234.9411 / www.kimley-horn.com

SAN MARCOS FIRE DEPARTMENT	VALLECITOS WATER DISTRICT	ENGINEER OF WORK	CITY APPROVED CHANGES	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK
By: JASON NAILON, FIRE MARSHALL Date	By: JAMES H. GUMPEL, P.E. Date	By: MARK N. ARAUJO	No. Description App'd By Date	By: Brian Banzuelo, Associate Civil Engineer	By: Isaac Etchamendy, City Engineer	Description: City of San Marcos Control Station CP–025
Approved Fire Hydrant Flow 1000 *(gpm) Gallons Per Minute *VWD is not responsible for maintenance, repair or replacement of fire hydrants unless specified under separate agreement with the San Marcos fire Department.	DISTRICT ENGINEER R.C.E. NO. C60160 exp: 6/22	R.C.E.: 85614 exp: 12/31/2022 Date: 1/18/2022		R.C.E.: 83315 exp.: 3/31/2023 Date:	R.C.E.: 81294 exp.: 9/30/2023 Date:	Location: N. 1,988,054.81 , E. 6,281,531.41 Record From: NVS LS6310 CP–025 Elev.: 770.99' [768.69'] Datum: NAVD88 [TOPO, NGVD 29] TOPO USING VERTICAL DATUM NGVD 29

CITY OF SAN MARCOS

IMPROVEMENT PLAN FOR:

RANCHO CORONADO PARK IMPROVEMENTS

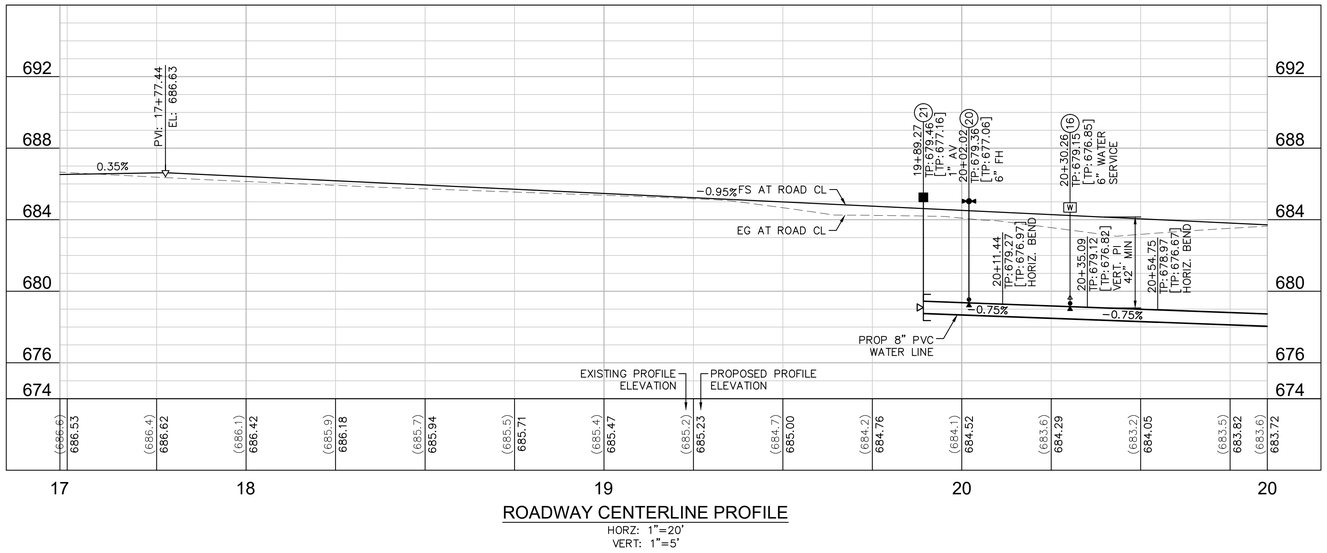
CIP# PK006

City Drawing No. IP21-00011

Sheet 5 of 23

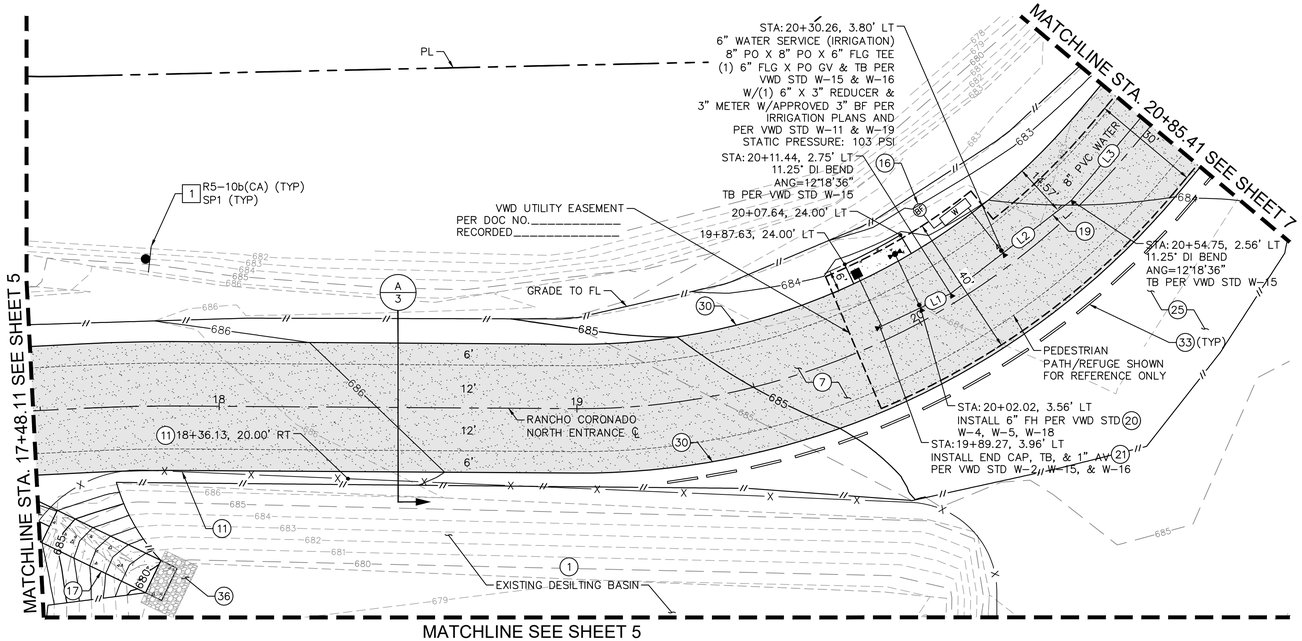
VWD WO#–250092

Drawing name: K:\SND_MUNI\095824104 – Rancho Coronado\Design\Plan Sheets\824104–PM1.dwg 3. IMPROVEMENT PLAN Jan 18, 2022 8:48am by: Madeline Dodd



ROADWAY CENTERLINE PROFILE

HORZ: 1"=20'
VERT: 1"=5'



LEGEND

- 3" MIN CLASS II AGGREGATE BASE
- 4" ASPHALT CONCRETE OVER 3" CLASS II BASE
- NEW TURF (REFER TO LANDSCAPE AND IRRIGATION PLANS ON SHEETS 11–15)
- NEW CONCRETE
- DECOMPOSED GRANITE
- ADDITIVE ALTERNATE
- GRADE BREAK
- DAYLIGHT LINE
- FLOW LINE
- DIRECTION OF FLOW
- PROPOSED EASEMENT

GENERAL NOTES

1. UNLESS OTHERWISE SHOWN ON PLANS, CONTRACTOR SHALL CLEAR AND GRUB ALL AREAS WITHIN THE PROJECT GRADING LIMITS AND REMOVE ALL IMPEDANCES FOR THE PROPOSED FACILITIES.
2. THE CONTRACTOR SHALL VERIFY THE EXISTENCE AND HORIZONTAL/VERTICAL LOCATION OF ALL UTILITIES WITHIN THE PROJECT AREA THAT MAY CONFLICT WITH THE PROPOSED CONSTRUCTION. CONTRACTOR TO IMMEDIATELY NOTIFY THE ENGINEER OF ANY REMAINING UTILITY CONFLICTS PRIOR TO THE START OF ANY DEMOLITION WORK.
3. PROPOSED IMPROVEMENTS ARE BASED ON NAVD88.
4. WATER LINE STATIONS SHOWN IN PROFILE VIEW ARE IN REFERENCE TO THE ROAD CENTERLINE.
5. REFER TO VWD GENERAL NOTES ON SHEET 2 FOR SUPPLEMENTAL REQUIREMENTS.

WATER LINE DATA TABLE

	LENGTH	LINE/CHORD DIRECTION	R	T	REMARKS
L1	21.83'	S64°39'03"W			8" PVC (C-900 DR-14 CL-305)[1]
L2	42.65'	S52°20'36"W			8" PVC (C-900 DR-14 CL-305)[1]
L3[2]	156.59'	S40°01'52"W			8" PVC (C-900 DR-14 CL-305)[1]

1. WITH TRACER WIRE VWD GEN. NOTE 15
2. LENGTH OF L3 SHOWN IN THE TABLE AND ON THE PLANS INCLUDES THE FULL LENGTH OF THE TANGENT EXTENDING TO SHEET 7.

CONSTRUCTION NOTES

1. PROTECT IN PLACE.
7. CONSTRUCT 3" MIN CLASS II AGGREGATE BASE DRIVEWAY AND PEDESTRIAN PATH COMPACTED TO 95% RELATIVE COMPACTION.
11. FURNISH AND INSTALL 6' HIGH GALVANIZED CHAIN LINK FENCE PER SDRSD M-06 AND M-20.
16. FURNISH AND INSTALL 3" WATER METER PER W-11 AND 3" BACKFLOW PREVENTOR PER W-19. REFER TO IRRIGATION PLANS ON SHEETS 11–15.
17. CONSTRUCT CROSS GUTTER PER SDRSD D-71 MODIFIED PER CROSS GUTTER STAKING DETAIL ON SHEET 8.
19. FURNISH AND INSTALL 8" C-900 DR-14 PVC WATER LINE PER VALLECITOS WATER DISTRICT STANDARD DRAWING W-17.
20. FURNISH AND INSTALL FIRE HYDRANT PER VALLECITOS WATER DISTRICT STANDARD DRAWING W-4, W-5 AND W-18.
21. FURNISH AND INSTALL 1" ARV PER VALLECITOS WATER DISTRICT STANDARD DRAWING W-2.
25. BALANCE EARTHWORK WITH SPOILS FROM LOCATIONS ON SITE AS DIRECTED BY THE CITY.
30. FURNISH AND INSTALL REDWOOD HEADER AT BORDER OF ALL CLASS II AGGREGATE BASE AND DG AREAS PER DETAIL B ON SHEET 10.
33. FURNISH AND INSTALL TREATED RAILROAD TIE OR APPROVED EQUAL PER DETAIL E ON SHEET 10.
36. CONSTRUCT RIP RAP ENERGY DISSIPATER TYPE 2 PER SDRSD D-40 AND PER DETAIL C AND D ON SHEET 10. (T=1.1').

SIGN LEGEND

NO PEDESTRIANS OR BICYCLES
R5-10b
30"X18"

CITY VEHICLES ONLY
SP1
12"X8"

SIGNING AND MARKING NOTES

1. FURNISH AND INSTALL NEW SIGN ON BREAK-AWAY POST PER SAN DIEGO REGIONAL STANDARD DRAWING M-45.

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

REGISTERED PROFESSIONAL ENGINEER
MARK N. ARAUJO
NO. 85614
CIVIL
STATE OF CALIFORNIA

Kimley»Horn Kimley-Horn and Associates, Inc. ©2021
401 B Street, Suite 600, San Diego, California 92101
Phone: 619.234.9411 / www.kimley-horn.com

AS-BUILT	INSPECTED AND RECOMMENDED FOR ACCEPTANCE
(SIGNATURE) DATE	
(PRINTED NAME) 85614 LICENSE NO.	Public Works Inspector Date

SAN MARCOS FIRE DEPARTMENT	VALLECITOS WATER DISTRICT	ENGINEER OF WORK	CITY APPROVED CHANGES	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK
By: JASON NAILON, FIRE MARSHALL Date	By: JAMES H. GUMPEL, P.E. Date	By: MARK N. ARAUJO	No. Description App'd By Date	By: Brian Banzuelo, Associate Civil Engineer	By: Isaac Etchamendy, City Engineer	Description: City of San Marcos Control Station CP-025
Approved Fire Hydrant Flow 1000 *(gpm) Gallons Per Minute	DISTRICT ENGINEER	R.C.E.: 85614 exp: 12/31/2022		R.C.E.: 83315 exp.: 3/31/2023	R.C.E.: 81294 exp.: 9/30/2023	Location: N. 1,988,054.81 , E. 6,281,531.41
VWD is not responsible for maintenance, repair or replacement of fire hydrants unless specified under separate agreement with the San Marcos fire Department.	R.C.E. NO. C60160 exp: 6/22	Date: 1/18/2022		Date:	Date:	Record From: NVS LS6310 CP-025
						Elev.: 770.99' [768.69'] Datum: NAVD88 (THIS WORK) NGVD (USING VERTICAL DATUM ADJUST. 29)

CITY OF SAN MARCOS

IMPROVEMENT PLAN FOR:

RANCHO CORONADO PARK IMPROVEMENTS

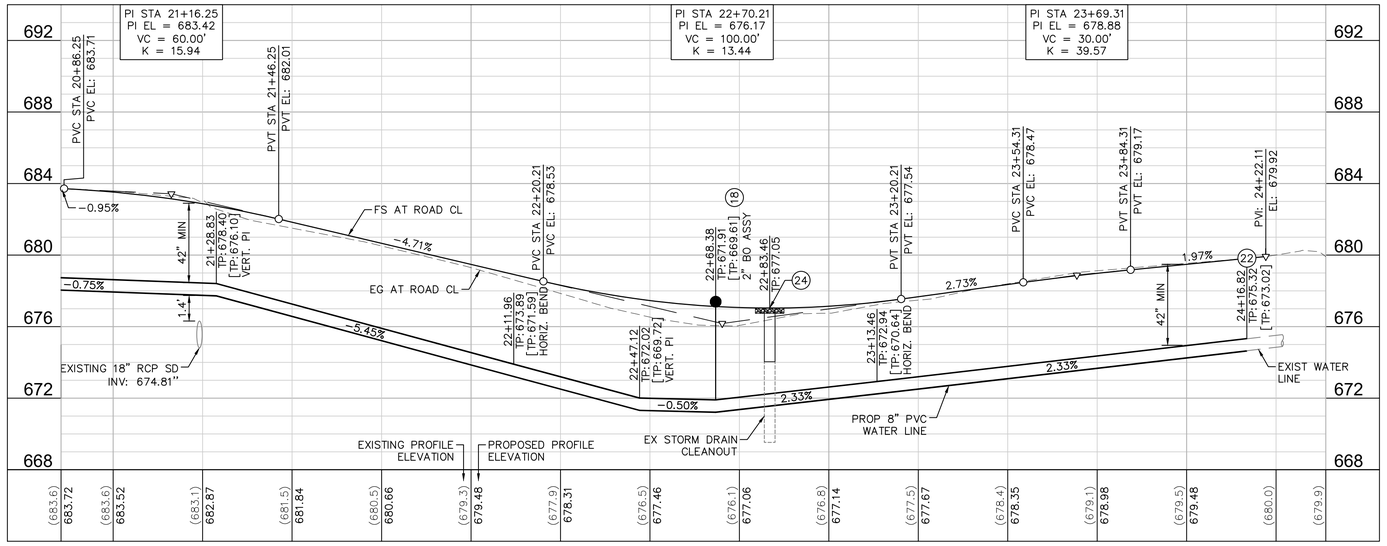
CIP# PK006

City Drawing No. IP21-00011

Sheet 6 of 23

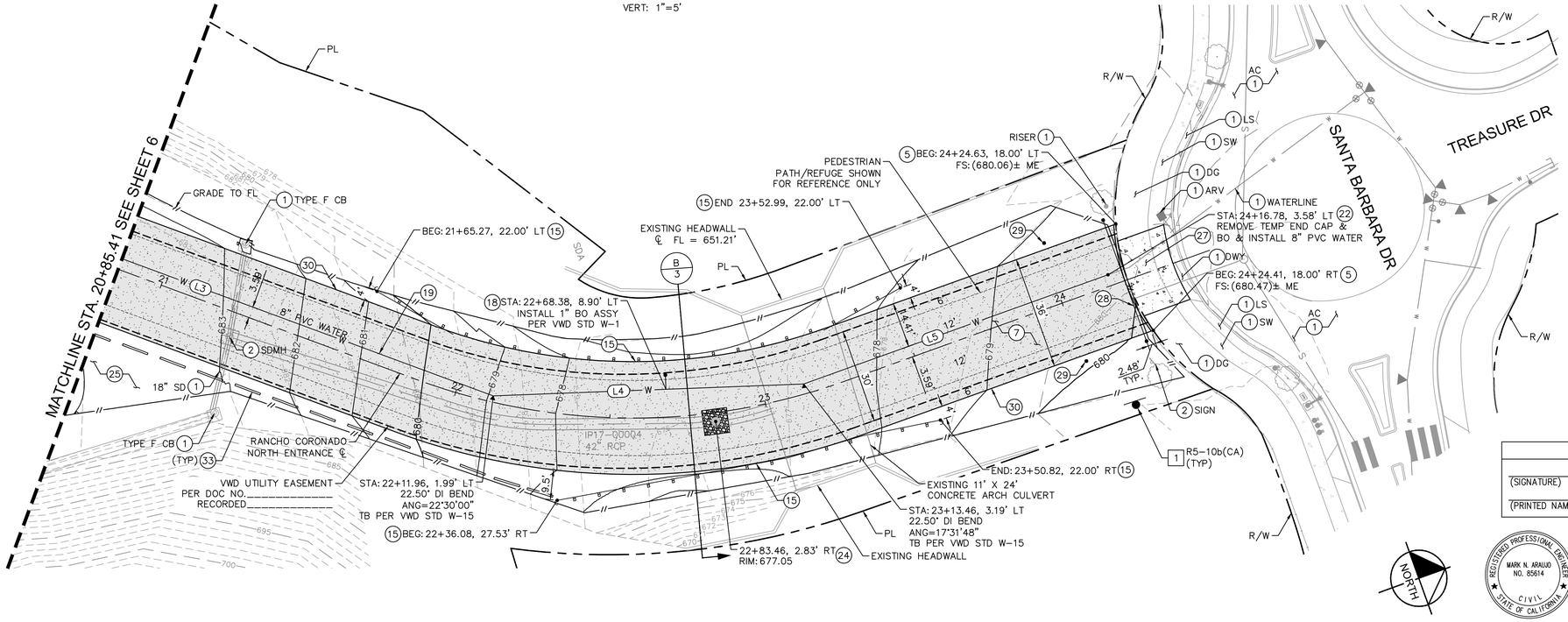
VWD WO#-250092

Drawing name: K:\SND_MUN\109524104 - Rancho Coronado\Design\Plan Sheets\524104-PI1.dwg 4 IMPROVEMENT PLAN Jan 18, 2022 8:48am by: Madeline.David



ROADWAY CENTERLINE PROFILE

HORZ: 1"=20'
VERT: 1"=5'



GENERAL NOTES

1. UNLESS OTHERWISE SHOWN ON PLANS, CONTRACTOR SHALL CLEAR AND GRUB ALL AREAS WITHIN THE PROJECT GRADING LIMITS AND REMOVE ALL IMPEDANCES FOR THE PROPOSED FACILITIES.
2. THE CONTRACTOR SHALL VERIFY THE EXISTENCE AND HORIZONTAL/VERTICAL LOCATION OF ALL UTILITIES WITHIN THE PROJECT AREA THAT MAY CONFLICT WITH THE PROPOSED CONSTRUCTION. CONTRACTOR TO IMMEDIATELY NOTIFY THE ENGINEER OF ANY REMAINING UTILITY CONFLICTS PRIOR TO THE START OF ANY DEMOLITION WORK.
3. PROPOSED IMPROVEMENTS ARE BASED ON NAVD88.
4. WATER LINE STATIONS SHOWN IN PROFILE VIEW ARE IN REFERENCE TO THE ROAD CENTERLINE.
5. REFER TO VWD GENERAL NOTES ON SHEET 2 FOR SUPPLEMENTAL REQUIREMENTS.

SIGNING AND MARKING NOTES

1 FURNISH AND INSTALL NEW SIGN ON BREAK-AWAY POST PER SAN DIEGO REGIONAL STANDARD DRAWING M-45.

SIGN LEGEND

NO PEDESTRIANS OR BICYCLES

R5-10b
30"X18"

LEGEND

- 3" MIN CLASS II AGGREGATE BASE
- 4" ASPHALT CONCRETE OVER 3" CLASS II BASE
- NEW TURF (REFER TO LANDSCAPE AND IRRIGATION PLANS ON SHEETS 11-15)
- NEW CONCRETE
- DECOMPOSED GRANITE
- ADDITIVE ALTERNATE
- GRADE BREAK
- DAYLIGHT LINE
- FLOW LINE
- DIRECTION OF FLOW
- PROPOSED EASEMENT

WATER LINE DATA TABLE

	LENGTH	LINE/CHORD DIRECTION	R	T	REMARKS
L3[2]	156.59'	S40°01'52"W			8" PVC (C-900 DR-14 CL-305)[1]
L4	99.13'	S17°31'52"W			8" PVC (C-900 DR-14 CL-305)[1]
L5	103.10'	S0°00'00"E			8" PVC (C-900 DR-14 CL-305)[1]

1. WITH TRACER WIRE VWD GEN. NOTE 15
2. LENGTH OF L3 SHOWN IN THE TABLE AND ON THE PLANS INCLUDES THE FULL LENGTH OF THE TANGENT EXTENDING TO SHEET 6.

CONSTRUCTION NOTES

1. PROTECT IN PLACE.
2. ADJUST TO FINISHED GRADE.
5. REMOVE AND DISPOSE OF PRESSURE TREATED LODGE POLE POSTS AND FOUNDATION. FILL POST HOLES WITH CLASS II BASE TO FINISHED GRADE. CONTRACTOR TO OBTAIN CITY APPROVAL PRIOR TO REMOVAL OF LODGE POLES.
7. CONSTRUCT 3" MIN CLASS II AGGREGATE BASE DRIVEWAY AND PEDESTRIAN PATH COMPACTED TO 95% RELATIVE COMPACTION.
15. CONSTRUCT MIDWEST GUARDRAIL SYSTEM (MGS) STANDARD RAILING SECTION (TYPE 11E) PER CALTRANS STANDARD PLAN A77L2 AND A77P2, TYPICAL LINE POST EMBEDMENT AND HINGE POINT OFFSET DETAIL B PER CALTRANS STANDARD PLAN A77N3 AND 31" FLARED TERMINAL SYSTEM END TREATMENT.
18. FURNISH AND INSTALL 2" BLOWOFF VALVE PER VALLECITOS WATER DISTRICT STANDARD DRAWING W-1.
19. FURNISH AND INSTALL 8" C-900 DR-14 PVC WATER LINE PER VALLECITOS WATER DISTRICT STANDARD DRAWING W-17.
22. REMOVE TEMP. END CAP AND CONNECT TO EXISTING WATER LINE PER DETAIL A ON SHEET 9.
24. ADJUST EXISTING STORM DRAIN CLEANOUT TO FINISHED GRADE PER CONCRETE MANHOLE RISER SUMP DETAIL B ON SHEET 9.
25. BALANCE EARTHWORK WITH SPOILS FROM LOCATIONS ON SITE AS DIRECTED BY THE CITY.
27. CONSTRUCT 7" THICK CONCRETE DRIVEWAY PER SDRSD G14-B, WITH HEAVY BROOM FINISH. CONTRACTOR TO REPAIR STABALIZED DG DISTURBED DURING CONSTRUCTION OF CONCRETE DRIVEWAY IN-KIND.
28. FURNISH AND INSTALL 3.5' TALL x 40' WIDE SENTINEL SWING BARRIER GATE RECIEVER POST PER DETAIL G ON SHEET 10.
29. FURNISH AND INSTALL 3.5' TALL x 3" OD GALVANIZED BOLLARD (BARRIER RECEIVER POST) WITH 3" TOP STAPLE LOOP ASSEMBLY.
30. FURNISH AND INSTALL REDWOOD HEADER AT BORDER OF ALL CLASS II AGGREGATE BASE AND DG AREAS PER DETAIL B ON SHEET 10.
33. FURNISH AND INSTALL TREATED RAILROAD TIE OR APPROVED EQUAL PER DETAIL E ON SHEET 10.

AS-BUILT		INSPECTED AND RECOMMENDED FOR ACCEPTANCE
(SIGNATURE)	DATE	Public Works Inspector — Date
(PRINTED NAME)	85614 LICENSE NO.	

GRAPHIC SCALE IN FEET
0 10 20 40

REGISTERED PROFESSIONAL ENGINEER — MARK N. ARAUJO NO. 85614 — CIVIL — STATE OF CALIFORNIA

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Phone: 619.234.9411 / www.kimley-horn.com

CIP# PK006

SAN MARCOS FIRE DEPARTMENT	VALLECITOS WATER DISTRICT	ENGINEER OF WORK	CITY APPROVED CHANGES	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK
By: JASON NAILON, FIRE MARSHALL Date	By: JAMES H. GUMPEL, P.E. Date	By: MARK N. ARAUJO	No. Description App'd By Date	By: Brian Banzuelo, Associate Civil Engineer	By: Isaac Etchamendy, City Engineer	Description: City of San Marcos Control Station CP-025
Approved Fire Hydrant Flow 1000 *(gpm) Gallons Per Minute *VWD is not responsible for maintenance, repair or replacement of fire hydrants unless specified under separate agreement with the San Marcos fire Department.	DISTRICT ENGINEER R.C.E. NO. C60160 exp: 6/22	R.C.E.: 85614 exp: 12/31/2022 Date: 1/18/2022		R.C.E.: 83315 exp.: 3/31/2023 Date:	R.C.E.: 81294 exp.: 9/30/2023 Date:	Location: N. 1,988,054.81 , E. 6,281,531.41 Record From: NV5 LS6310 CP-025 Elev.: 770.99' [768.69'] Datum: NAD83 [1992, NSRS 2011] NAVD88 (USING VERTICAL DATUM NGVD 29)

CITY OF SAN MARCOS

IMPROVEMENT PLAN FOR:

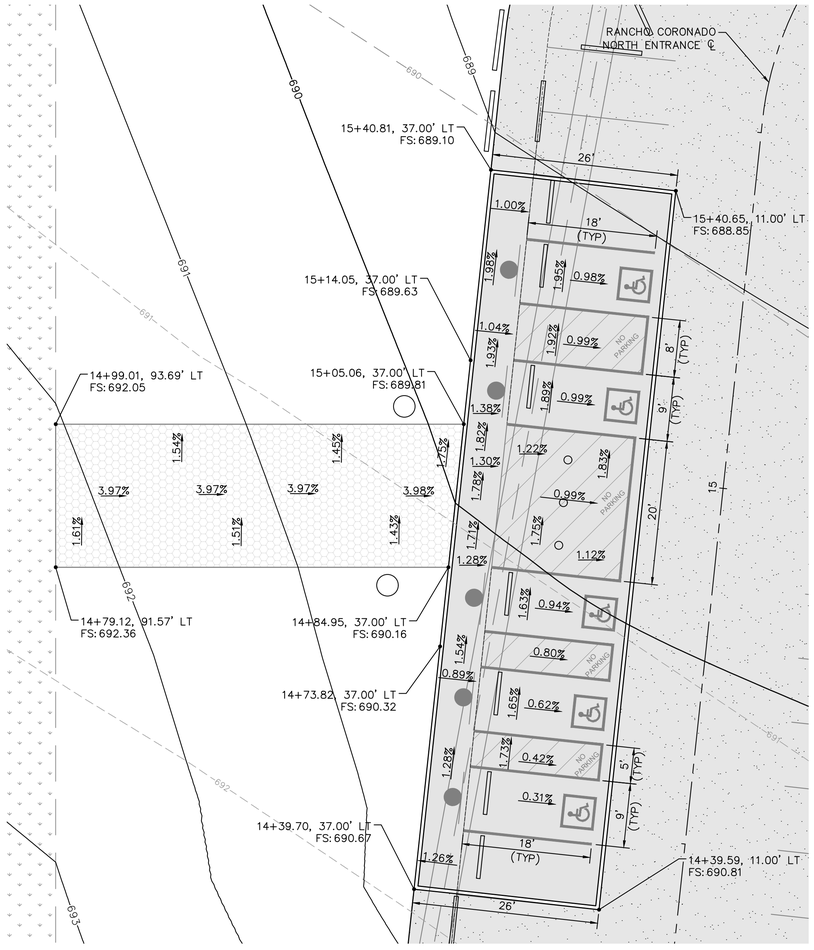
RANCHO CORONADO PARK IMPROVEMENTS

City Drawing No. IP21-00011

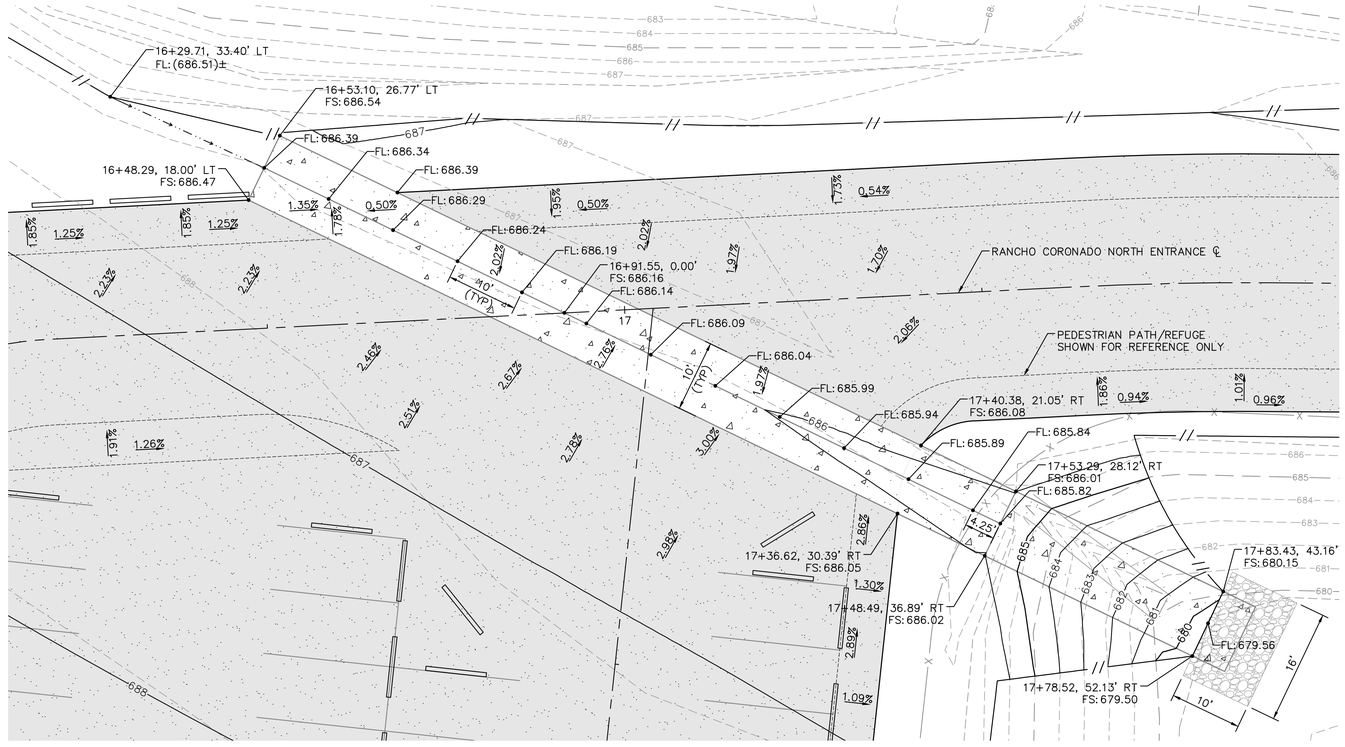
Sheet 7 of 23

VWD WO#-250092

Drawing name: K:\SND_MUNI\095834104 - Rancho Coronado\Design\Plan Sheets\834104-PV1.dwg 5 IMPROVEMENT PLAN Jan 18, 2022 1:35pm by: mark.araujo



ACCESSIBLE PARKING AND FIELD ACCESS STAKING DETAIL
HORZ: 1"=10'



CROSS GUTTER STAKING DETAIL
HORZ: 1"=10'

NORTH

GRAPHIC SCALE IN FEET
0 5 10 20

REGISTERED PROFESSIONAL ENGINEER
MARK N. ARAUJO
NO. 85614
CIVIL
STATE OF CALIFORNIA

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401 B Street, Suite 600, San Diego, California 92101
Phone: 619.234.9411 / www.kimley-horn.com

AS-BUILT	INSPECTED AND RECOMMENDED FOR ACCEPTANCE
(SIGNATURE) DATE	Public Works Inspector Date
(PRINTED NAME) 85614 LICENSE NO.	

SAN MARCOS FIRE DEPARTMENT	VALLECITOS WATER DISTRICT	ENGINEER OF WORK	CITY APPROVED CHANGES	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK
By: JASON NAILON, FIRE MARSHALL Date Approved Fire Hydrant Flow 1000 *(gpm) Gallons Per Minute VWD is not responsible for maintenance, repair or replacement of fire hydrants unless specified under separate agreement with the San Marcos fire Department.	By: JAMES H. GUMPEL, P.E. Date DISTRICT ENGINEER R.C.E. NO. C60160 exp: 6/22	By: MARK N. ARAUJO R.C.E.: 85614 exp: 12/31/2022 Date: 1/18/2022	No. Description App'd By Date	By: Brian Banzuelo, Associate Civil Engineer R.C.E.: 83315 exp.: 3/31/2023 Date:	By: Isaac Etchamendy, City Engineer R.C.E.: 81294 exp.: 9/30/2023 Date:	Description: City of San Marcos Control Station CP-025 Location: N. 1,988,054.81 , E. 6,281,531.41 Record From: NVS LS6310 CP-025 Elev.: 770.99' [768.69'] Datum: NAVD88 [NGVD 29] HORIZONTAL DATUM NAD83 29

CITY OF SAN MARCOS
STAKING PLAN FOR:
RANCHO CORONADO PARK IMPROVEMENTS

CIP# PK006
City Drawing No.
IP21-00011
Sheet 8 of 23

VWD WO#-250092

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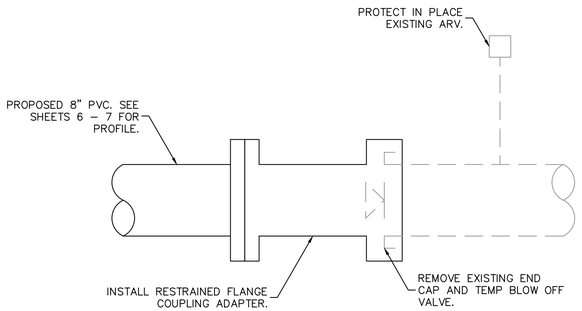
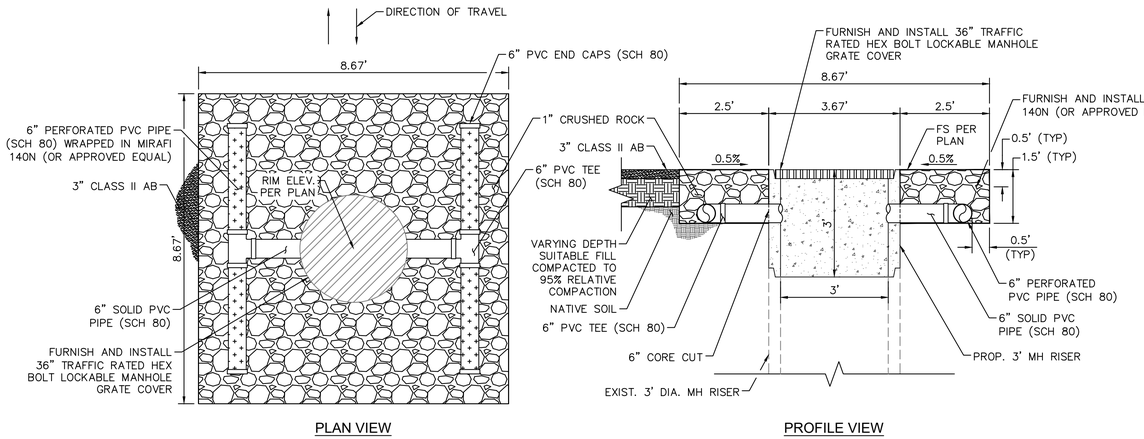


A WATER CONNECTION DETAIL
NOT TO SCALE



B CONCRETE MANHOLE RISER SUMP DETAIL
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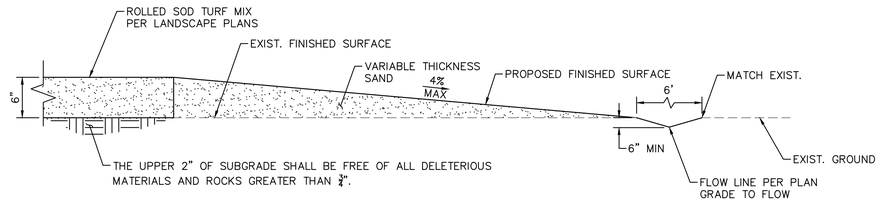

C FIELD GRADING TRANSITION DETAIL
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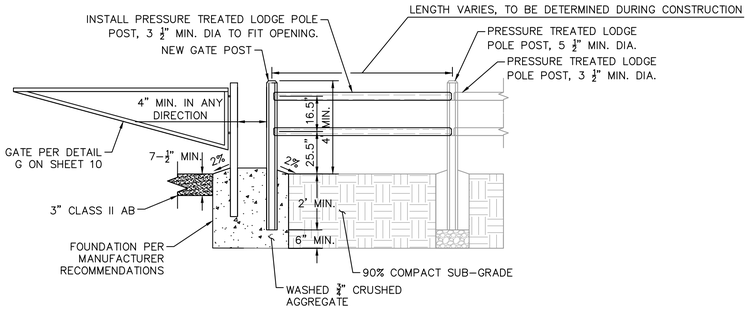
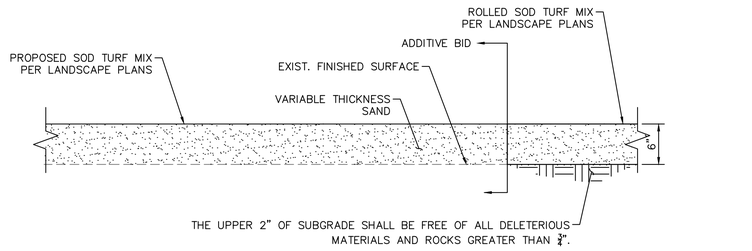
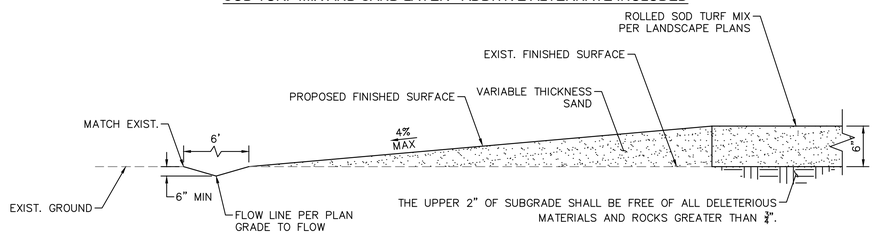


D TYPICAL LODGE POLE FENCE GATE TIE IN
NOT TO SCALE



SOD TURF MIX AND SAND LAYER - ADDITIVE ALTERNATE INCLUDED



SOD TURF MIX AND SAND LAYER - ADDITIVE ALTERNATE NOT INCLUDED

E FIELD GRADING ALTERNATIVE GRADING DETAIL
NOT TO SCALE

REGISTERED PROFESSIONAL ENGINEER
MARK N. ARAUJO
NO. 85614
CIVIL
STATE OF CALIFORNIA

Kimley»Horn Kimley-Horn and Associates, Inc. ©2021
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AS–BUILT	INSPECTED AND RECOMMENDED FOR ACCEPTANCE
(SIGNATURE) DATE	
(PRINTED NAME) 85614 LICENSE NO.	Public Works Inspector Date

SAN MARCOS FIRE DEPARTMENT	VALLECITOS WATER DISTRICT	ENGINEER OF WORK	CITY APPROVED CHANGES	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK
By: JASON NAILON, FIRE MARSHALL Date	By: JAMES H. GUMPEL, P.E. Date	By: MARK N. ARAUJO	No. Description App'd By Date	By: Brian Banzuelo, Associate Civil Engineer	By: Isaac Etchamendy, City Engineer	Description: City of San Marcos Control Station CP–025
Approved Fire Hydrant Flow 1000 *(gpm) Gallons Per Minute *VWD is not responsible for maintenance, repair or replacement of fire hydrants unless specified under separate agreement with the San Marcos fire Department.	DISTRICT ENGINEER	R.C.E.: 85614 exp: 12/31/2022		R.C.E.: 83315 exp.: 3/31/2023	R.C.E.: 81294 exp.: 9/30/2023	Location: N. 1,988,054.81 , E. 6,281,531.41
	R.C.E. NO. C60160 exp: 6/22	Date: 1/18/2022		Date:	Date:	Record From: NV5 LS6310 CP–025 Elev.: 770.99' [768.69'] Datum: NAVD88 [NGS, NOV '91] *VWD USING VERTICAL DATUM NOVD 29

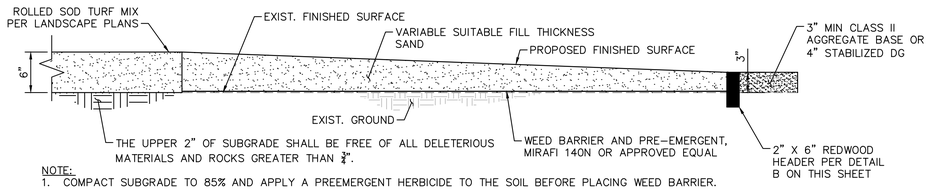
CITY OF SAN MARCOS

CONSTRUCTION DETAILS FOR:
RANCHO CORONADO PARK IMPROVEMENTS

CIP# PK006
City Drawing No. IP21-00011
Sheet 9 of 23

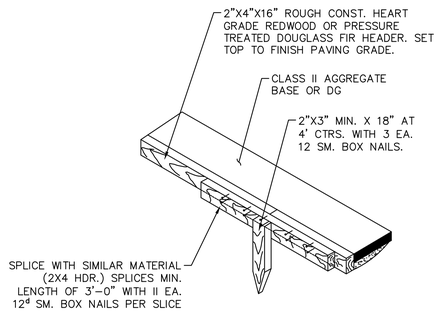
VWD WO#–250092

Drawing name: K:\SND_MUNI\205834104 – Rancho Coronado\Design\Plan Sheets\8234104–DT.dwg 07–1 Jan 18, 2022 8:50am by: Madeline.David

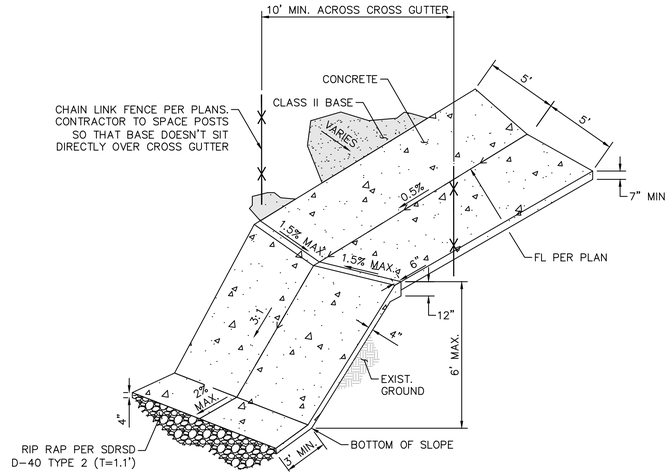


NOTE:
1. COMPACT SUBGRADE TO 85% AND APPLY A PREEMERGENT HERBICIDE TO THE SOIL BEFORE PLACING WEED BARRIER.

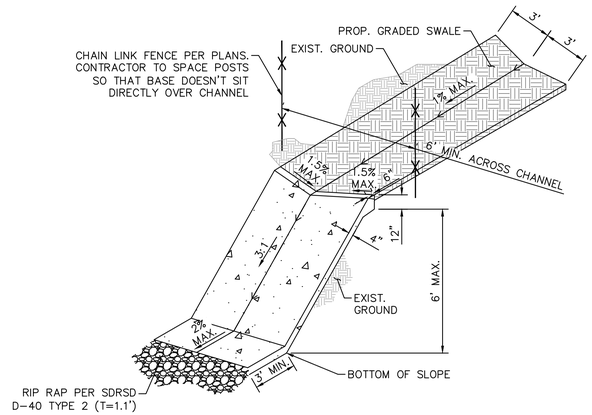
A FIELD GRADING TRANSITION DETAIL



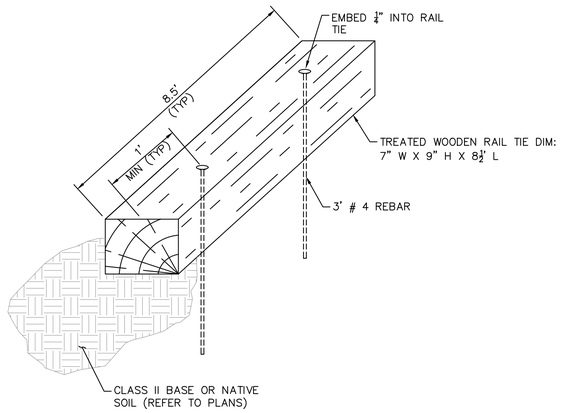
B REDWOOD HEADER DETAIL
NOT TO SCALE



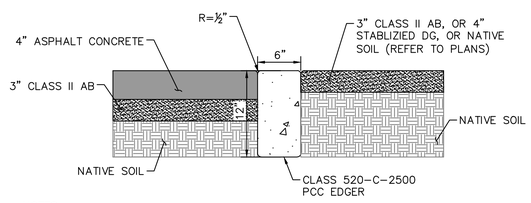
C CROSS GUTTER CHANNEL OUTLET DETAIL
NOT TO SCALE



D CHANNEL OUTLET DETAIL
NOT TO SCALE

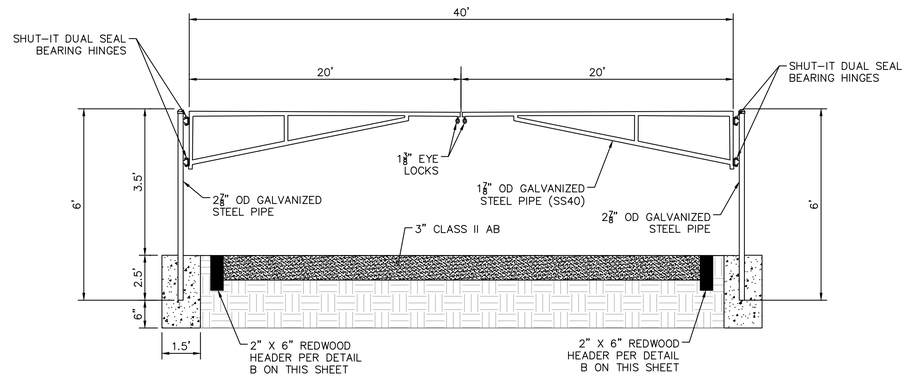


E TREATED RAILROAD TIE DETAIL
NOT TO SCALE



NOTES:
1. INSTALL WEAKENED PLANE JOINTS AT 15' INTERVALS ALONG THE CONCRETE EDGER.

F CONCRETE EDGER DETAIL
NOT TO SCALE



G SENTINEL 40' MANUAL DOUBLE SWING BARRIER GATE
NOT TO SCALE

REGISTERED PROFESSIONAL ENGINEER
MARK N. ARAUJO
NO. 85614
CIVIL
STATE OF CALIFORNIA

Kimley»Horn Kimley-Horn and Associates, Inc. ©2021
401 B Street, Suite 600, San Diego, California 92101
Phone: 619.234.9411 / www.kimley-horn.com

AS-BUILT	INSPECTED AND RECOMMENDED FOR ACCEPTANCE
(SIGNATURE) DATE	
(PRINTED NAME) 85614 LICENSE NO.	Public Works Inspector Date

SAN MARCOS FIRE DEPARTMENT	VALLECITOS WATER DISTRICT	ENGINEER OF WORK
By: JASON NAILON, FIRE MARSHALL Date	By: JAMES H. GUMPEL, P.E. Date	By: MARK N. ARAUJO
Approved Fire Hydrant Flow 1000 *(gpm) Gallons Per Minute	DISTRICT ENGINEER	R.C.E.: 85614 exp: 12/31/2022
VWD is not responsible for maintenance, repair or replacement of fire hydrants unless specified under separate agreement with the San Marcos fire Department	R.C.E. NO. C60160 exp: 6/22	Date: 1/18/2022

CITY APPROVED CHANGES			
No.	Description	App'd By	Date

RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION
By: Brian Banzuelo, Associate Civil Engineer	By: Isaac Etchamendy, City Engineer
R.C.E.: 83315 exp.: 3/31/2023	R.C.E.: 81294 exp.: 9/30/2023
Date:	Date:

BENCH MARK
Description: City of San Marcos Control Station CP-025
Location: N. 1,988,054.81 , E. 6,281,531.41
Record From: NVS LS6310 CP-025
Elev.: 770.99' [768.69'] Datum: NAD83(1983) NSRS 2011 (EPOCH 2010.00) VERTICAL DATUM NAVD 29

CITY OF SAN MARCOS

CONSTRUCTION DETAILS FOR:
RANCHO CORONADO PARK IMPROVEMENTS

CIP# PK006
City Drawing No.
IP21-00011
Sheet 10 of 23

VWD WO#-250092

Drawing name: K:\SND_MUNI\095824104 - Rancho Coronado\Design\Plan Sheets\824104-DT.dwg DT-2 Jan 18, 2022 8:50am by Madeline David

CITY OF SAN MARCOS STANDARD LANDSCAPE NOTES

1. THE WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS INCLUDING THE PLANS, SPECIAL PROVISIONS, THE CITY'S IRRIGATION AND LANDSCAPE STANDARD DRAWINGS; THE CITY'S APPROVED MATERIALS LIST, THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, AND THESE STANDARD PLANTING NOTES.
2. FOR CIPS, THE CONTRACTOR SHALL REQUEST INSPECTIONS THROUGH THE PROJECT CONSTRUCTION MANAGER 24 HOURS IN ADVANCE. ON LAND DEVELOPMENT PROJECTS, THE CONTRACTOR SHALL REQUEST AN INSPECTION DIRECTLY THROUGH THE ASSIGNED LANDSCAPE INSPECTOR OR CALL (760) 752-7550 EXT. 3350 TO SCHEDULE INSPECTIONS. IF THE WORK IS NOT READY FOR INSPECTION ON THE SCHEDULED DATE AND TIME, THE CONTRACTOR SHALL RESCHEDULE THE INSPECTION AS ABOVE. THE CITY MAY CHARGE THE CONTRACTOR FOR RESCHEDULED INSPECTIONS AND WITHHOLD FURTHER INSPECTIONS UNTIL SUCH TIME AS THE CONTRACTOR PAYS THE RE-INSPECTION FEE.
3. PLANTING INSPECTIONS ARE REQUIRED FOR THE FOLLOWING
   A. TREE PLANTING PIT PERCOLATION TESTS (BOTH FILLS).
   B. PLANT MATERIAL LAYOUT PRIOR TO PLANTING.
   C.PLANT MATERIAL QUALITY PRIOR TO PLANTING.
   D.AMENDMENT VERIFICATION (PRIOR TO APPLICATION)
   E.PLANT MATERIAL INSTALLATION.
   F.FINAL PLANT MATERIAL INSPECTION (PUNCH LIST DEVELOPED).
   G.FINAL IRRIGATION AND LANDSCAPE PUNCH LIST COMPLETION INSPECTION.
4. PRIOR TO INSTALLING PLANT MATERIAL, THE CONTRACTOR SHALL CONTROL WEEDS BY WATERING FOR THREE WEEKS TO ADEQUATELY GERMINATE THE SEEDBED AND THEN APPLY A POST-EMERGENT HERBICIDE BY A LICENSED APPLICATOR AND WAIT AS DIRECTED BY THE MANUFACTURER BEFORE PLANTING.
5. SOIL SAMPLES FOR AMENDMENT TESTING SHALL BE TAKEN AFTER COMPLETION OF GRADING AND PRIOR TO WEED CONTROL AND SOIL PREPARATION AT A MINIMUM OF THREE LOCATIONS APPROVED BY THE PUBLIC WORKS DEPARTMENT. TESTS SHALL BE PERFORMED BY AN APPROVED LABORATORY. TESTS PERFORMED SHALL INCLUDE, BUT ARE NOT LIMITED TO: ORGANIC MATTER CONTENT, N.P.K., PH, E.C., AND PERCENT SILT, SAND, & CLAY. TEST RESULTS AND APPLICATION RECOMMENDATIONS SHALL BE SUBMITTED TO THE PUBLIC WORKS DEPARTMENT PRIOR TO APPLICATION OF AMENDMENTS. AMENDMENTS SHALL BE APPLIED PURSUANT TO THE LABORATORY AND MANUFACTURERS RECOMMENDATIONS.
6. PERCOLATION TESTS SHALL BE PERFORMED ON ALL TREE PLANTING PITS FOR 15 GALLON AND LARGER TREES PRIOR TO HARDSCAPE INSTALLATION. PITS SHALL BE FILLED WITH 18 INCHES OF WATER AND ALLOWED TO COMPLETELY DRAIN. PITS SHALL THEN BE FILLED WITH 12 INCHES OF WATER AND ALLOWED TO DRAIN. THE SECOND FILL MUST DRAIN AT A MINIMUM RATE OF ONE INCH PER HOUR, FOR FOUR HOURS.
7. TREE WELL DRAIN SYSTEMS SHALL BE INSTALLED PURSUANT TO CITY OF SAN MARCOS STANDARD DRAWINGS WHEN PERCOLATION TESTS FAIL.
8. THE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE IN ALL LANDSCAPE AREAS.
9. TREES SUPPLIED TO THE PROJECT SHALL MEET THE FOLLOWING MINIMUM STANDARDS:
   A.SPECIAL PROVISIONS.
   B.TREES SHALL HAVE A STRAIGHT TRUNK WITH A SYMMETRICAL CROWN.
   C.TREES SHALL HAVE A SUBSTANTIAL, SINGLE, CENTRAL LEADER.
   D.TREE BARK SHALL NOT BE DISCOLORED, SUNKEN, OR SWOLLEN, AND SHALL BE FREE OF CUTS, SCRAPES, OR OTHER DAMAGE.
   E.TREES SHOWING GALLERIES, SUN SCALD, OR FROST DAMAGE WILL NOT BE ACCEPTED.
   F.THE CALIPER OF THE TREE SHALL BE IN PROPORTION TO THE ROOTBALL.
   G.TREES WITH GIRDLING ROOTS WRAPPING AROUND THE TRUNK OR OTHERWISE ROOTBOUND WILL NOT BE ACCEPTED.
   H.TREE TRUNKS MORE THAN 10 PERCENT OFF CENTER WILL NOT BE ACCEPTED.
   I.TREES SHALL BE FREE OF CROSSING BRANCHES AND BRANCHES GROWING TOO CLOSE TO ONE ANOTHER.
   J.FRESHLY PRUNED TREES WILL NOT BE ACCEPTED.
10. TREES SHALL NOT BE PRUNED UNLESS OTHERWISE APPROVED BY THE PUBLIC WORKS DEPARTMENT.

CITY OF SAN MARCOS STANDARD MAINTENANCE NOTES

A. STREETSCAPES - THE CITY WILL ASSUME MAINTENANCE OF ALL IRRIGATION AND LANDSCAPING UPON SUCCESSFUL COMPLETION BY THE CONTRACTOR AND ACCEPTANCE BY THE CITY OF THE FINAL IRRIGATION AND LANDSCAPE PUNCH LIST AND COMPLETION OF THE FINAL PROJECT PUNCH LIST AND RECEIPT OF END OF PROJECT SUBMITTALS. THE CONTRACTOR, AT ITS EXPENSE, SHALL PERFORM ALL IRRIGATION AND LANDSCAPE MAINTENANCE UNTIL SUCH TIME AS THESE CONDITIONS ARE MET.
B. PARKS - THE CONTRACTOR WILL MAINTAIN NEW PARKS FOR 60 CALENDAR DAYS AFTER COMPLETION OF FINAL LANDSCAPE PUNCH LIST AS DETERMINED BY THE CITY AND RECEIPT OF END OF PROJECT SUBMITTALS. DURING THE 60-DAY MAINTENANCE PERIOD, THE PARK IS TO BE CLOSED TO THE PUBLIC BY THE USE OF TEMPORARY FENCING OR OTHER MEANS AS APPROVED BY THE CITY.
C. THE CITY WILL PROVIDE WRITTEN NOTICE TO THE CONTRACTOR DESIGNATING THE OFFICIAL START DATE OF THE 60-DAY MAINTENANCE AND ESTABLISHMENT PERIOD.

THE CONTRACTOR WILL BE NOTIFIED BY THE CITY IMMEDIATELY UPON DISCOVERY OF DEFECTS IN IRRIGATION AND LANDSCAPE MATERIALS AND WORKMANSHIP AND THE CONTRACTOR SHALL TAKE IMMEDIATE ACTION, AS DEMANDED BY THE CITY, TO REMEDY SAID DEFECTS. FAILURE OF THE CONTRACTOR TO RESPOND WITHIN THE REQUIRED TIME SHALL BE CAUSE FOR THE CITY TO SUSPEND THE 60-DAY MAINTENANCE PERIOD UNTIL ALL IDENTIFIED DEFICIENCIES ARE ADDRESSED AND APPROVED BY THE CITY.

ALL TURF REPAIRS PERFORMED DURING THE MAINTENANCE PERIOD SHALL BE MADE AT THE CONTRACTOR'S EXPENSE USING SOD PER THE APPROVED PLAN OR DIRECTION OF THE CITY. SEED WILL NOT BE USED TO REPAIR TURF DURING THE MAINTENANCE AND ESTABLISHMENT PERIOD.

THE ABOVE REQUIREMENTS ARE IN ADDITION TO ANY WARRANTY REQUIREMENTS SET FORTH IN THE CONTRACT DOCUMENTS.
ROUTINE MAINTENANCE SHALL INCLUDE BUT NOT BE LIMITED TO:

a. REGULAR MONITORING, ADJUSTMENT, AND REPAIR OF THE IRRIGATION SYSTEM.
b. APPROPRIATE WATERING OF PLANT MATERIAL.
c. REGULAR WEEDING.
d. PROMPT REPLACEMENT OF DEAD, DYING OR DAMAGED PLANT MATERIAL.
e. PRUNING OF TREES AS DIRECTED BY THE PUBLIC WORKS DEPARTMENT.
f. FILLING AND COMPACTING SETTLED TRENCHES AND ERODED AREAS.
g. DAILY (SEVEN DAYS PER WEEK) REMOVAL AND DISPOSAL OF TRASH, LITTER, AND FOREIGN DEBRIS.
h. WEEKLY MOWING OF TURF AREAS AND REMOVAL OF GRASS CLIPPINGS. THIS IS DEPENDENT UPON TURF TYPE AND TIME OF YEAR.
i. REMOVAL OF TURF BY SHOVEL CUTTING WITHIN 12 TO 18 INCHES OF THE TREE TRUNK AND MAINTAINING A THREE INCH LAYER OF APPROVED MULCH.
j. NECESSARY PEST CONTROL BY A LICENSED PEST CONTROL APPLICATOR.
k. FERTILIZING AS NECESSARY TO MAINTAIN PLANT MATERIAL IN A HEALTHY, VIGOROUS CONDITION.
l. FUEL MANAGEMENT ZONES (100 FEET FROM STRUCTURES) AS SHOWN.
m. REGULAR CLEANING OF DRAINAGE STRUCTURES WITHIN THE SITE.
n. PROPER TRIMMING OF SHRUBS TO LEAVE THEM IN A NATURAL FORM TYPICAL OF THE PARTICULAR PLANT. POODLING, BOXING, OR BALLING OF SHRUBS IS NOT PERMITTED.
o. MAINTENANCE OF ALL APPURTENANT IMPROVEMENTS INCLUDED IN THE PROJECT.

AT THE END OF THE 60-DAY MAINTENANCE PERIOD, AND PRIOR TO CITY ACCEPTANCE, A FINAL LANDSCAPE AND IRRIGATION INSPECTION WILL BE CONDUCTED WITH THE CONTRACTOR TO ENSURE MAINTENANCE OBJECTIVES HAVE BEEN SATISFIED. UPON SUCCESSFUL COMPLETION OF PUNCH LIST ITEMS AND THE TURNOVER OF REQUIRED SUBMITTALS, THE CITY WILL ACCEPT THE PARK. THE CITY WILL ACKNOWLEDGE, IN WRITING, THAT ALL MAINTENANCE CONDITIONS HAVE BEEN SATISFIED AND ASSUME THE RESPONSIBILITY OF THE PARK.

LICENSED LANDSCAPE ARCHITECT — Expiration of License 26/31 — 9/30/2022 — Renewal Date — 1/18/2022 — Date — STATE OF CALIFORNIA

LANDSCAPE ARCHITECT NOTES

1. THE TERM "LANDSCAPE ARCHITECT" USED HEREIN SHALL MEAN THE LANDSCAPE ARCHITECT WHO HAS SIGNED AND SEALED THESE PLANS AND IS IN RESPONSIBLE CHARGE OF THE LANDSCAPE ARCHITECTURE DESIGN. THE TERM "CONTRACTOR" USED HEREIN SHALL MEAN ANY GENERAL CONTRACTOR OR SUBCONTRACTOR USING THESE PLANS. ANY AGENCY SIGNATURE OR APPROVAL ON THESE PLANS DOES NOT CONSTITUTE APPROVAL OF ANY OF THESE NOTES.

2. THE LANDSCAPE ARCHITECT WILL NOT PROVIDE, OBSERVE, COMMENT ON NOR ENFORCE ANY SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN, CONSTRUCT, AND MAINTAIN ALL SAFETY MEASURES AND SHALL BE SOLELY RESPONSIBLE FOR SAME AND COMPLYING WITH ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS, AND REGULATIONS. THE CONTRACTOR AGREES THAT SHE/HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOBSITE CONDITIONS AND SAFETY OF ALL PERSONS AND PROPERTY DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

3. THE LANDSCAPE ARCHITECT SHALL HAVE NO RESPONSIBILITY FOR ANY OF THE CONTRACTOR'S MEANS AND METHODS OF CONSTRUCTION, TECHNIQUES, EQUIPMENT CHOICE AND USAGE, SEQUENCE, SCHEDULE, SAFETY PROGRAMS, OR SAFETY PRACTICES, NOR SHALL THE LANDSCAPE ARCHITECT HAVE ANY AUTHORITY OR RESPONSIBILITY TO STOP OR DIRECT THE WORK OF ANY CONTRACTOR.

4. THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE LANDSCAPE ARCHITECT AND OWNER, THEIR AGENTS AND EMPLOYEES, HARMLESS FROM ANY AND ALL CLAIMS, DEMANDS, JUDGMENTS, LOSS, DAMAGES, COSTS, EXPENSES, FEES OR LIABILITY WHATSOEVER, REAL OR ALLEGED, IN CONNECTION WITH, IN WHOLE OR IN PART, DIRECTLY OR INDIRECTLY, THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE LANDSCAPE ARCHITECT.

5. IF THERE ARE ANY QUESTIONS REGARDING THESE PLANS, THE CONTRACTOR SHALL REQUEST IN WRITING FROM THE LANDSCAPE ARCHITECT AND THE OWNER, AN INTERPRETATION BEFORE DOING ANY RELATED OR IMPACTED WORK.

6. THE CONTRACTOR SHALL TAKE THE NECESSARY STEPS TO PROTECT THE PROPERTY FROM ANY EROSION AND SILTATION THAT RESULT FROM CONTRACTOR OPERATIONS BY APPROPRIATE MEANS UNTIL SUCH TIME THAT THE PROJECT IS COMPLETED AND ACCEPTED FOR MAINTENANCE BY WHOMEVER IS TO BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE.

7. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO STARTING WORK NEAR THEIR FACILITIES AND SHALL COORDINATE WORK WITH UTILITY COMPANY REPRESENTATIVES.

8. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED FROM A SEARCH OF READILY AVAILABLE RECORDS. NO REPRESENTATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID UTILITY INFORMATION. THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN HEREON AND ANY OTHERS NOT OF RECORD OR NOT SHOWN ON THESE PLANS. ALL DAMAGES THERETO CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE APPROPRIATE SPECIFICATIONS AND STANDARDS AT THE SOLE EXPENSE OF THE CONTRACTOR.

9. THE LOCATION, ELEVATIONS, SIZE, TYPE AND CONDITION OF EXISTING IMPROVEMENTS ADJACENT TO THE PROPOSED WORK INDICATED ON THESE PLANS SHALL BE CONFIRMED BY THE CONTRACTOR BY FIELD MEASUREMENTS AND OBSERVATIONS PRIOR TO CONSTRUCTION OF NEW WORK. THE CONTRACTOR WILL IMMEDIATELY INFORM THE LANDSCAPE ARCHITECT IN WRITING IF ANY DISCREPANCIES OR CONFLICTING INFORMATION IS FOUND.

10. THE CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES AS NEEDED, SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY DUE TO THE ACTUAL LOCATION, SIZE, TYPE, OR CONDITION OF EXISTING FACILITIES DIFFERING FROM WHAT IS SHOWN ON THESE PLANS.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ANY DAMAGE TO THE EXISTING IMPROVEMENTS AND REPLACEMENT TO THE SATISFACTION OF THE OWNER.

12. SHOULD CONFLICTING INFORMATION BE FOUND ON THE PLANS THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING IMMEDIATELY BEFORE PROCEEDING WITH THE WORK IN QUESTION.

I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE AB-1881 AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLAN.

RANDALL A. KOPFF JR, LLA 6633

CITY OF SAN MARCOS STANDARD IRRIGATION NOTES

1. THE CONTRACTOR SHALL SCHEDULE A LANDSCAPE PRECONSTRUCTION MEETING WITH THE PUBLIC WORKS DEPARTMENT LANDSCAPE INSPECTOR VIA THE ENGINEERING DEPARTMENT INSPECTOR PRIOR TO THE COMMENCEMENT OF IRRIGATION WORK. THE CONTRACTOR AND ITS LANDSCAPE SUBCONTRACTOR SHALL ATTEND THE MEETING.
2. THE WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, INCLUDING BUT NOT LIMITED TO THE PLANS, SPECIAL PROVISIONS, THE CITY'S IRRIGATION AND LANDSCAPE STANDARD DRAWINGS, THE CITY'S APPROVED MATERIALS LIST, THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, AND THESE STANDARD IRRIGATION NOTES.
3. THE CONTRACTOR SHALL SUBMIT A COMPLETE MATERIALS LIST AND ASSOCIATED CATALOG CUTS FOR ALL IRRIGATION AND LANDSCAPE MATERIALS TO BE INCORPORATED IN THE WORK PRIOR TO THE START OF CONSTRUCTION.
4. IRRIGATION PLANS ARE DIAGRAMMATIC. THE ACTUAL LOCATION OF IRRIGATION IMPROVEMENTS SHALL BE IN PLANTED AREAS WHERE POSSIBLE. LOCATIONS OF IRRIGATION IMPROVEMENTS ARE SUBJECT TO THE PUBLIC WORKS DEPARTMENT APPROVAL PRIOR TO INSTALLATION. IRRIGATION CONTROLLERS SHALL BE INSTALLED "OUTSIDE" OF IRRIGATION COVERAGE IN LOCATIONS APPROVED BY THE PUBLIC WORKS DEPARTMENT.
5. THE CONTRACTOR SHALL SCHEDULE INSPECTIONS 24 HOURS IN ADVANCE OF THE WORK BEING READY OR INSPECTION. ON CIPS, THE CONTRACTOR MUST REQUEST THE INSPECTION THROUGH THE PROJECT CONSTRUCTION MANAGER. ON LAND DEVELOPMENT PROJECTS, THE CONTRACTOR SHALL SCHEDULE THE INSPECTION WITH THE ASSIGNED LANDSCAPE INSPECTOR OR CALL (760) 752-7550 EXT. 3350 TO SCHEDULE INSPECTIONS. IF THE WORK IS NOT READY FOR INSPECTION ON THE SCHEDULED DATE AND TIME, THE CONTRACTOR SHALL RESCHEDULE THE INSPECTION AS ABOVE. THE CITY MAY CHARGE THE CONTRACTOR FOR RESCHEDULED INSPECTIONS AND WITHHOLD FURTHER INSPECTIONS UNTIL SUCH TIME AS THE CONTRACTOR PAYS THE RE-INSPECTION FEE.
6. IRRIGATION INSPECTIONS ARE REQUIRED FOR THE FOLLOWING:
   A. PRESSURE MAIN LAYOUT INCLUDING CONTROLLER AND BACKFLOW PREVENTER LOCATIONS.
   B. EXCAVATION AND BEDDING INCLUDING CONTROL AND COMMUNICATION WIRING.
   C. MAINLINE PRESSURE TEST (SEE REQUIRED SUBMITTALS ABOVE).
   D. LATERAL LINES AND TERMINAL APPURTENANCES LAYOUT AND INSTALLATION.
   E. PRELIMINARY COVERAGE TEST PRIOR TO PLANTING.
   F. FINAL IRRIGATION COVERAGE TEST AFTER PLANTING.
7. CONTROL WIRING SHALL BE COLOR-CODED AND LABELED AT THE CONTROLLER AND ALL JUNCTION AND VALVE BOXES TO CORRESPOND TO THE APPROPRIATE STATION. INSTALL THREE ADDITIONAL CONTROL WIRES FROM THE CONTROLLER TO THE END OF EACH MAINLINE RUN LEAVING THREE FEET MINIMUM OF SLACK AT BOTH ENDS.
8. ALL THREADED FITTINGS REQUIRE TEFLON TAPE.
9. THE CONTRACTOR SHALL VERIFY AND COORDINATE LOCATIONS OF IRRIGATION WATER SERVICES AND IRRIGATION CONTROLLER ELECTRICAL SERVICE LOCATIONS WITH OTHER TRADES TO ENSURE THEY CORRESPOND WITH IRRIGATION WATER POINTS OF CONNECTION AND CONTROLLER LOCATIONS.
10. EXCAVATION FOR NEW IMPROVEMENTS IN OR THROUGH EXISTING LANDSCAPED AREAS SHALL BE PERFORMED BY HAND UNLESS OTHERWISE APPROVED BY THE PUBLIC WORKS DEPARTMENT, AND SHALL BE OUTSIDE OF EXISTING TREE DRIP LINES.
11. CONTROLLER AND COMMUNICATION WIRE SPLICES SHALL ONLY BE MADE WITH PUBLIC WORKS DEPARTMENT APPROVAL AND, WHEN APPROVED, SHALL ONLY BE MADE IN AN APPROVED BOX WITH A MINIMUM OF THREE FOOT LOOP (SIX FEET OF WIRE).
12. IRRIGATION CONTROLLERS SHALL BE AS SHOWN ON THE PLANS. EACH CONTROLLER ASSEMBLY SHALL INCLUDE REMOTE RECEIVER CARD AND REMOTE CONTROL TRANSMITTER.
13. THE CONTRACTOR SHALL SUBMIT THE INSTALLATION CERTIFICATION OF THE CONTROLLER ASSEMBLY FABRICATOR TO THE PUBLIC WORKS DEPARTMENT PRIOR TO COVERAGE TEST INSPECTION.
14. THE CONTRACTOR SHALL PROVIDE ACCURATE AND CURRENT AS-BUILT DRAWINGS AT THE TIME OF THE MAINLINE PRESSURE TEST INSPECTION TO FACILITATE THE INSPECTION.
15. PRESSURE MAINLINES SHALL BE CENTER LOADED AND NOT BACKFILLED LEAVING JOINTS VISIBLE UNTIL SUCH TIME AS THE PRESSURE TEST HAS BEEN COMPLETED AND ACCEPTED.
16. PRESSURE MAINLINES SHALL HOLD 150PSI FOR A MINIMUM OF FOUR HOURS.
17. AS-BUILT DRAWINGS SHALL BE KEPT ON-SITE AND UP TO DATE AT ALL TIMES.
18. AS-BUILT DRAWINGS SHALL SHOW THE LOCATIONS OF:
   A. WATER SERVICES AND METER.
   B. ELECTRICAL SERVICES AND METER.
   C. BACKFLOW ASSEMBLIES.
   D. CONTROLLER ASSEMBLIES.
   E. AUTOMATIC CONTROL VALVES.
   F. REMOTE CONTROL VALVES WITH STATION DESIGNATION.
   G. ISOLATION AND QUICK COUPLER VALVES.
   H. PRESSURE MAIN LINES.
   I. CONTROL AND COMMUNICATION WIRES.
   J. LATERAL LINES.
   K. SLEEVES.
19. THE CONTRACTOR SHALL SUBMIT FULL SIZE (24 INCHES BY 36 INCHES) REDLINED AS-BUILT DRAWINGS AT THE TIME OF THE COVERAGE TEST INSPECTION. AS-BUILTS SHALL BE ON NEW PLAN SHEETS AND BE CLEAN AND LEGIBLE. SUBMISSION OF AS-BUILTS SHALL BE MADE AT THE COVERAGE TEST INSPECTION AND IS PRECEDENT TO START OF CITY PERFORMED MAINTENANCE.

PLANT SCHEDULE BASE BID

TREES	CODE	QTY	BOTANICAL / COMMON NAME	CONT	HEIGHT/SPREAD	CAL.	WUCOLS
	PM	8	PLATANUS MEXICANA / MEXICAN SYCAMORE	24" BOX	10-12' HT. X 4-5' SPR.	2" CAL.	MODERATE

GROUND COVERS	QTY	BOTANICAL / COMMON NAME	CONT.	SPACING	WUCOLS
	73,739 SF	TURF / ROLLED SOD TURF MIX SOD SHALL BE A BERMUDA WITH PERENNIAL RYEGRASS SOD BY WEST COAST TURF, OR APPROVED EQUAL CONTACT: ANTHONY PULIZZANO 760-834-5121, ANTHONY.PULIZZARO@WESTCOASTTURF.COM	TURF		

PLANT SCHEDULE ADDITIVE BID 1

GROUND COVERS	QTY	BOTANICAL / COMMON NAME	CONT.
	68,834 SF	TURF / ROLLED SOD TURF MIX SOD SHALL BE A BERMUDA WITH PERENNIAL RYEGRASS SOD BY WEST COAST TURF, OR APPROVED EQUAL CONTACT: ANTHONY PULIZZANO 760-834-5121, ANTHONY.PULIZZARO@WESTCOASTTURF.COM	TURF

Kimley»Horn Kimley-Horn and Associates, Inc. ©2021
401 B Street, Suite 600, San Diego, California 92101
Phone: 619.234.9411 / www.kimley-horn.com

VALLECITOS WATER DISTRICT
PRESSURE ZONE: 920 HGL
PUMP ZONE: N/A

AS-BUILT
(SIGNATURE) DATE
(PRINTED NAME) LICENSE NO. 85614

INSPECTED AND RECOMMENDED FOR ACCEPTANCE
Public Works Inspector Date

CIP# PK006

SAN MARCOS FIRE DEPARTMENT
By:
JASON NAILON, FIRE MARSHALL Date
Approved Fire Hydrant Flow 1000 *(gpm) Gallons Per Minute
VWD is not responsible for maintenance, repair or replacement of fire hydrants unless specified under separate agreement with the San Marcos fire Department.

VALLECITOS WATER DISTRICT
By:
JAMES H. GUMPEL, P.E. Date
DISTRICT ENGINEER
R.C.E. NO. C60160 exp: 6/22

LANDSCAPE ARCHITECT OF WORK
By: RANDALL KOPFF
R.C.E.: 6633 exp: 09/30/2022
Date: 1/18/2022

CITY APPROVED CHANGES

No.	Description	App'd By	Date

RECOMMENDED FOR APPROVAL
By:
Brian Banzuelo, Associate Civil Engineer
R.C.E.: 83315 exp.: 3/31/2023
Date:

APPROVED FOR CONSTRUCTION
By:
Isaac Etchamendy, City Engineer
R.C.E.: 81294 exp.: 9/30/2023
Date:

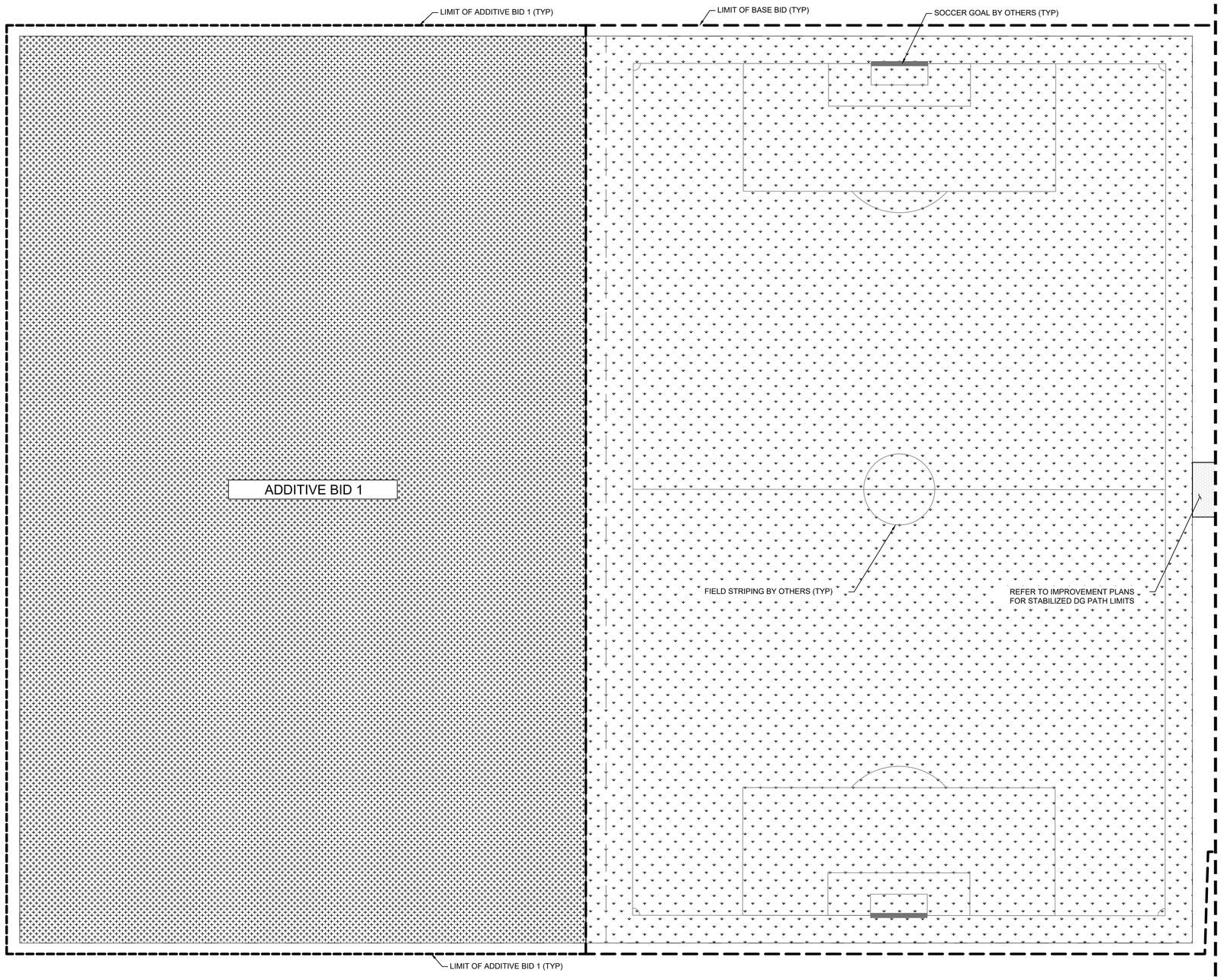
BENCH MARK
Description: City of San Marcos Control Station CP-025
Location: N. 1,988,054.81 , E. 6,281,531.41
Record From: NVS LS6310 CP-025
Elev.: 770.99 [768.69] Datum: NAVD 1988 VERTICAL DATUM ADJUST 29

CITY OF SAN MARCOS
LANDSCAPE & IRRIGATION NOTES FOR:
RANCHO CORONADO PARK IMPROVEMENTS

City Drawing No.
IP21-00011
Sheet 11 of 23

VWD WO#-250092

Drawing name: K:\SND_MIN\09582\104 – Rancho Coronado\Design\Plan Sheets\82104-LS.dwg 11 Jan 18, 2022 8:50am by: Madeline David



PLANT SCHEDULE BASE BID

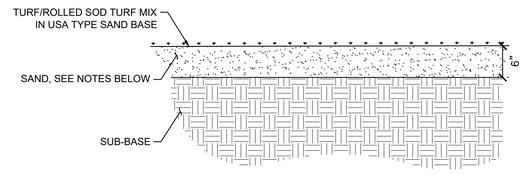
TREES	CODE	QTY	BOTANICAL / COMMON NAME
	PM	8	PLATANUS MEXICANA / MEXICAN SYCAMORE

GROUND COVERS	QTY	BOTANICAL / COMMON NAME	CONT.
	73,739 SF	TURF / ROLLED SOD TURF MIX SOD SHALL BE A BERMUDA WITH PERENNIAL RYEGRASS SOD BY WEST COAST TURF, OR APPROVED EQUAL CONTACT: ANTHONY PULIZZANO 760-834-5121, ANTHONY.PULIZZARO@WESTCOASTTURF.COM	TURF

PLANT SCHEDULE ADDITIVE BID 1

GROUND COVERS	QTY	BOTANICAL / COMMON NAME	CONT.
	68,834 SF	TURF / ROLLED SOD TURF MIX SOD SHALL BE A BERMUDA WITH PERENNIAL RYEGRASS SOD BY WEST COAST TURF, OR APPROVED EQUAL CONTACT: ANTHONY PULIZZANO 760-834-5121, ANTHONY.PULIZZARO@WESTCOASTTURF.COM	TURF

MATCHLINE SEE SHEET 13



NOTES:
1. SUBMIT SOD TYPE FOR APPROVAL PRIOR TO INSTALLATION.
2. SOD USED ON FIELDS SHALL BE UNIFORM IN COLOR AND TYPE.
3. SAND SHALL MEET THE FOLLOWING:
   2 MM (#10) SIEVE = 6% RETAINED
   0.05 (#270) MM SIEVE < 10% PASSING
4. SAND MATERIAL SHALL BE FREE OF VEGETATION, ROCKS OR DEBRIS.
5. ROOT ZONE SAND DEPTH SHALL BE 0.75' PLUS OR MINUS .05'. ROOT ZONE SHALL BE PLACED WITH UNIFORM MOISTURE AND ROLLED WITH A 5-TON MINIMUM ROLLER TO A UNIFORM COMPACTION. FINAL ROOT ZONE GRADE SHALL BE LASER LEVELED TO PLUS OR MINUS 0.02' AND CERTIFIED BY A REGISTERED LAND SURVEYOR OR OTHER APPROVED METHOD AT 25' INTERVALS.
6. SUB BASE TO A DEPTH OF 6 INCHES BELOW FINISH GRADE SHALL BE FREE OF ALL DELETERIOUS MATERIALS AND ROCKS 2 INCHES IN ANY DIMENSION AND TO A DEPTH OF 2 INCHES BELOW FINISH GRADE SHALL BE FREE OF ALL ROCKS GREATER THAN ½ INCH.

A FIELD TURF - SECTION
SCALE: N.T.S.

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

LICENSED LANDSCAPE ARCHITECT — STATE OF CALIFORNIA
9/30/2022
Renewal Date
1/18/2022

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401 B Street, Suite 600, San Diego, California 92101
Phone: 619.234.9411 / www.kimley-horn.com

VALLECITOS WATER DISTRICT
PRESSURE ZONE: 920 HGL
PUMP ZONE: N/A

AS-BUILT	INSPECTED AND RECOMMENDED FOR ACCEPTANCE
(SIGNATURE) DATE	Public Works Inspector Date
(PRINTED NAME) LICENSE NO. 85614	

SAN MARCOS FIRE DEPARTMENT	VALLECITOS WATER DISTRICT	LANDSCAPE ARCHITECT OF WORK
By: JASON NAILON, FIRE MARSHALL Date	By: JAMES H. GUMPEL, P.E. Date	By: RANDALL KOPFF
Approved Fire Hydrant Flow 1000 *(gpm) Gallons Per Minute VWD is not responsible for maintenance, repair or replacement of fire hydrants unless specified under separate agreement with the San Marcos fire Department.	DISTRICT ENGINEER R.C.E. NO. C60160 exp: 6/22	R.C.E.: 6633 exp: 09/30/2022 Date: 1/18/2022

CITY APPROVED CHANGES			
No.	Description	App'd By	Date

RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION
By: Brian Banzuelo, Associate Civil Engineer	By: Isaac Etchamendy, City Engineer
R.C.E.: 83315 exp.: 3/31/2023	R.C.E.: 81294 exp.: 9/30/2023
Date:	Date:

BENCH MARK
Description: City of San Marcos Control Station CP-025
Location: N. 1,988,054.81 , E. 6,281,531.41
Record From: NVS LS6310 CP-025
Elev.: 770.99' [768.69'] Datum: NAD83(1986) (NAD83 2011) PCMD (CORS) VERTICAL DATUM (NGVD 29)

CITY OF SAN MARCOS
LANDSCAPE PLAN FOR:
RANCHO CORONADO PARK IMPROVEMENTS

CIP# PK006
City Drawing No.
IP21-00011
Sheet 12 of 23

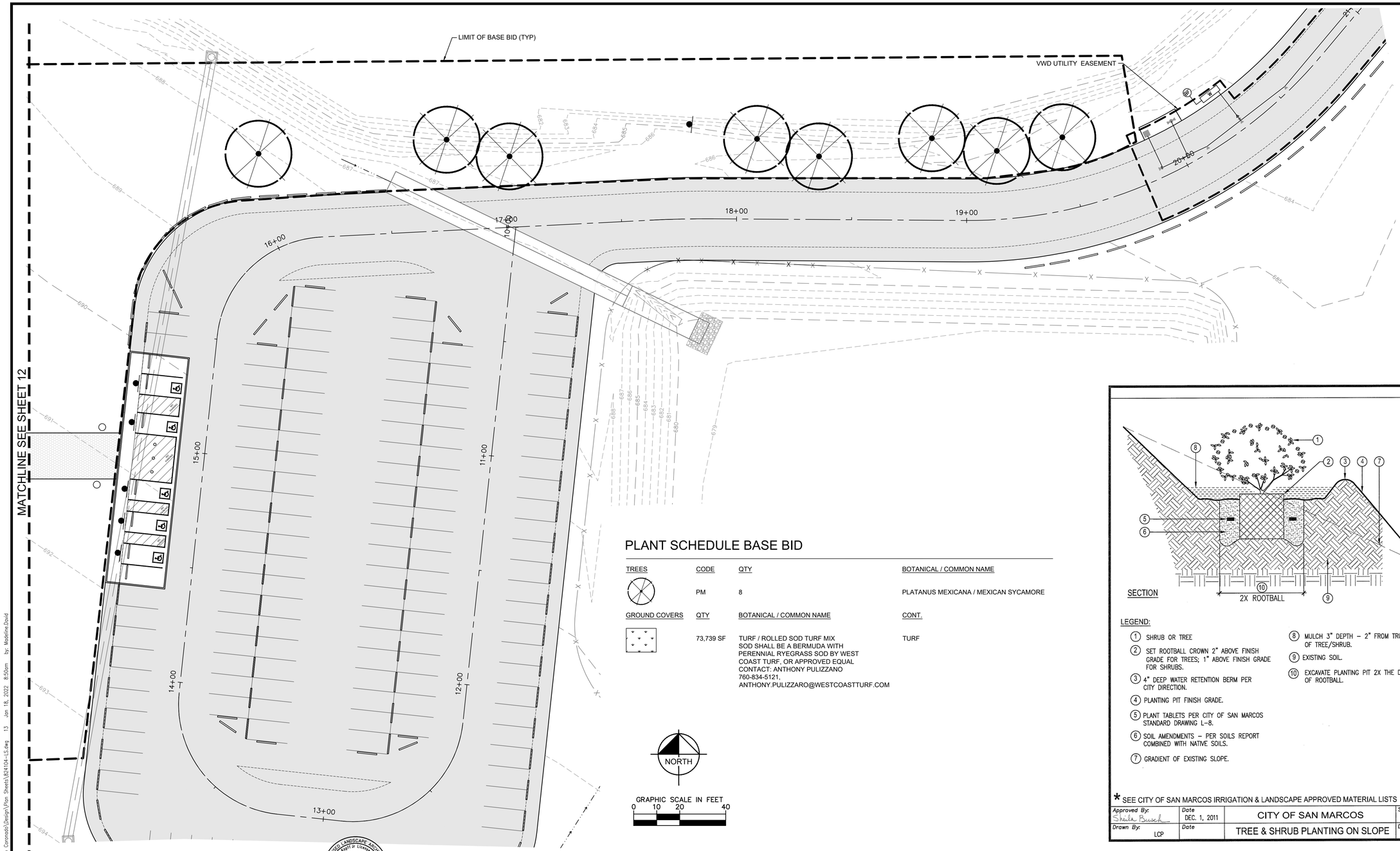
VWD WO#-250092

Drawing name: K:\SND_MUNI\095824104 - Rancho Coronado\Design\Plan Sheets\824104-LS.dwg 12 Jan 18, 2022 8:50am by: Madeline.David

LIMIT OF BASE BID (TYP)

VWD UTILITY EASEMENT

MATCHLINE SEE SHEET 12



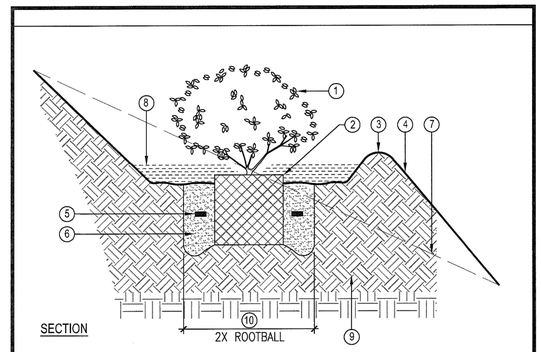
PLANT SCHEDULE BASE BID

TREES	CODE	QTY	BOTANICAL / COMMON NAME
	PM	8	PLATANUS MEXICANA / MEXICAN SYCAMORE

GROUND COVERS	QTY	BOTANICAL / COMMON NAME	CONT.
	73,739 SF	TURF / ROLLED SOD TURF MIX SOD SHALL BE A BERMUDA WITH PERENNIAL RYEGRASS SOD BY WEST COAST TURF, OR APPROVED EQUAL CONTACT: ANTHONY PULIZZANO 760-834-5121, ANTHONY.PULIZZARO@WESTCOASTTURF.COM	TURF

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40



SECTION

LEGEND:

1. SHRUB OR TREE
2. SET ROOTBALL CROWN 2" ABOVE FINISH GRADE FOR TREES; 1" ABOVE FINISH GRADE FOR SHRUBS.
3. 4" DEEP WATER RETENTION BERM PER CITY DIRECTION.
4. PLANTING PIT FINISH GRADE.
5. PLANT TABLETS PER CITY OF SAN MARCOS STANDARD DRAWING L-8.
6. SOIL AMENDMENTS – PER SOILS REPORT COMBINED WITH NATIVE SOILS.
7. GRADIENT OF EXISTING SLOPE.
8. MULCH 3" DEPTH – 2" FROM TRUNK OF TREE/SHRUB.
9. EXISTING SOIL.
10. EXCAVATE PLANTING PIT 2X THE DIAMETER OF ROOTBALL.

* SEE CITY OF SAN MARCOS IRRIGATION & LANDSCAPE APPROVED MATERIAL LISTS

Approved By: Sheila Busch	Date: DEC. 1, 2011	CITY OF SAN MARCOS	Scale: N.T.S.
Drawn By: LCP	Date:	TREE & SHRUB PLANTING ON SLOPE	Drawing No.: L-5a

LICENSED LANDSCAPE ARCHITECT — Randall Koppf — License No. 6633 — 9/30/2022 — 1/18/2022 — Date — STATE OF CALIFORNIA

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401 B Street, Suite 600, San Diego, California 92101
Phone: 619.234.9411 / www.kimley-horn.com

VALLECITOS WATER DISTRICT
PRESSURE ZONE: 920 HGL
PUMP ZONE: N/A

AS-BUILT
(SIGNATURE) DATE
(PRINTED NAME) LICENSE NO.

INSPECTED AND RECOMMENDED FOR ACCEPTANCE
Public Works Inspector Date

CIP# PK006

SAN MARCOS FIRE DEPARTMENT	VALLECITOS WATER DISTRICT	LANDSCAPE ARCHITECT OF WORK	CITY APPROVED CHANGES	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK
By: JASON NAILON, FIRE MARSHALL Date Approved Fire Hydrant Flow 1000 *(gpm) Gallons Per Minute *VWD is not responsible for maintenance, repair or replacement of fire hydrants unless specified under separate agreement with the San Marcos fire Department.	By: JAMES H. GUMPEL, P.E. Date DISTRICT ENGINEER R.C.E. NO. C60160 exp: 6/22	By: RANDALL KOPFF R.C.E.: 6633 exp: 09/30/2022 Date: 1/18/2022	No. Description App'd By Date	By: Brian Banzuelo, Associate Civil Engineer R.C.E.: 83315 exp.: 3/31/2023 Date:	By: Isaac Etchamendy, City Engineer R.C.E.: 81294 exp.: 9/30/2023 Date:	Description: City of San Marcos Control Station CP-025 Location: N. 1,988,054.81 , E. 6,281,531.41 Record From: NVS LS6310 CP-025 Elev.: 770.99' [768.69'] Datum: NAD83 (1991) NGVD '29 (1996) USING VERTICAL DATUM NGVD 29

CITY OF SAN MARCOS

LANDSCAPE PLAN FOR:
RANCHO CORONADO PARK IMPROVEMENTS

City Drawing No.
IP21-00011
Sheet 13 of 23

VWD WO#-250092

Drawing name: K:\SND_MUNI\095834104 - Rancho Coronado\Design\Plan Sheets\834104-LS.dwg 13. Jan 18, 2022 8:50am by: Madeline.David

IRRIGATION SCHEDULE BASE BID

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	CITY STANDARD DETAIL REF.
25Q 50Q 50H 10H 10F 20F	HUNTER PROS-PRS30-06-MSBN 10F MULTI-STREAMER BUBBLER, 6" POP-UP, 25=.25GPM, 50=0.5GPM, 10=1.0GPM, 20=2.0GPM.	16	I-19

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	
4.0	HUNTER I-20-06-SS -PRS TURF ROTOR, 6.0" POP-UP. ADJUSTABLE AND FULL CIRCLE. STAINLESS STEEL RISER. DRAIN CHECK VALVE. STANDARD NOZZLE. @45 PSI	54	I-18

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	
	RAIN BIRD PESB W/ LXIVMSOL 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION. NOTE: CONTRACTOR TO REPLACE VALVE SOLENOID WITH THE LXIVMSOL INTEGRATED 2-WIRE DECODER AND SOLENOID. (1) LXIVMSOL PER VALVE.	6	I-10
	RAIN BIRD 44-LRC 1" BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, LOCKING THERMOPLASTIC RUBBER COVER, AND 2-PIECE BODY.	2	I-17
	CLOW C509 3" RESILIENT WEDGE GATE VALVE. NRS WITH HANDWHEEL	2	I-8
	NIBCO T-585-70 TWO-PIECE BRONZE FULL PORT BALL VALVE WITH STAINLESS STEEL HANDLE	5	I-9
MV	HUNTER IBV 3" 3" BRASS ELECTRIC MASTER VALVE, GLOBE CONFIGURATION, WITH NPT THREADED INLET/OUTLET, FOR COMMERCIAL/MUNICIPAL USE.	1	I-6
BF	FEBCO 825Y 3" REDUCED PRESSURE BACKFLOW PREVENTER. SIZE 3" WITH A V.I.T SRONG BOX SBBC SERIES ENLOSURE WITH SMOOTH TOUCH FINISH.	1	I-5
C	CALSENSE CS3000 CONTROLLER, FLOW SENSING WITH 2 WIRE DECODER. IN EXTERIOR STAINLESS ENCLOSURE.	1	I-12
RS	CALSENSE ET GAUGE WIRELESS RAIN AND FREEZE SENSOR COMBO, INCLUDES 1 RECEIVER AND 1 RAIN/FREEZE SENSOR TRANSMITTER, POLE MOUNTED	1	I-15
FS	CALSENSE FM-2B	1	I-7
M	WATER METER 3" METER PER CIVIL PLANS	1	
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40	4,716 L.F.	
IRR	IRRIGATION MAINLINE: PVC CLASS 315	773.5 L.F.	

Valve Callout
- Valve Number
- Controller Letter
- Valve Flow
- Valve Size

IRRIGATION SCHEDULE ADDITIVE BID 1

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
4.0	HUNTER I-20-06-SS -PRS TURF ROTOR, 6.0" POP-UP. ADJUSTABLE AND FULL CIRCLE. STAINLESS STEEL RISER. DRAIN CHECK VALVE. STANDARD NOZZLE. @45 PSI	45

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40	2,092 L.F.

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	PSI	PSI @ POC	VALVE ELEV
1	RAIN BIRD PESB W/ LXIVMSOL	2"	BUBBLER	16.00	39.56	67.88	11.50 ft
2	RAIN BIRD PESB W/ LXIVMSOL	2"	TURF ROTOR	88.00	57.99	87.25	11.50 ft
3	RAIN BIRD PESB W/ LXIVMSOL	2"	TURF ROTOR	88.00	57.38	86.71	11.50 ft
4	RAIN BIRD PESB W/ LXIVMSOL	2"	TURF ROTOR	44.00	58.53	87.9	11.50 ft
5	RAIN BIRD PESB W/ LXIVMSOL	2"	TURF ROTOR	88.00	57.09	87.98	12.50 ft
6	RAIN BIRD PESB W/ LXIVMSOL	2"	TURF ROTOR	88.00	57.72	88.66	12.50 ft

WATER EFFICIENT LANDSCAPE WORKSHEET

This worksheet is filled out by the project applicant and it is a required element of the Landscape Documentation Package.

54.2

Reference Evapotranspiration (ETo)

Hydrozone # /Planting Description[a]	Plant Factor (PF)	Irrigation Method[c]	Irrigation Efficiency (IE)[c]	ETAF (PF/IE)	Landscape Area (sq. ft.)	ETAF x Area	Estimated Total Water Use (ETWU)[f]
Regular Landscape Areas							
Base Bid	0.4	Bubbler	0.75	0.45	256	115	3,871.00
				Totals	(A)	(B)	
Special Landscape Areas							
Base Bid	[redacted]			1	73,739	73,739	2,477,925
Additive Bid 1				1	68,834	68,834	2,313,097
				1			
				Totals	142,829	142,699	
						ETWU Total	4,794,893
				Maximum Allowed Water Allowance (MAWA)[e]			103%

[a] ***Hydrozone #/Planting Description***
E.g.
1.) front lawn
2.) low water use plantings
3.) medium water use planting

[c] ***Irrigation Method*** — ***Irrigation Efficiency***
overhead spray — *0.75 for spray head*
or drip — *0.81 for drip*

[e] ***ETWU* (Annual Gallons Required)** = *Eto x 0.62 x ETAF x Area*
where 0.62 is a conversion factor that converts acre-inches per acre per year to gallons per square foot per year.

[f] ***MAWA (Annual Gallons Allowed)*** = *(Eto) (0.62) [(ETAF x LA) + ((1- ETAF) x SLA)]*
where 0.62 is a conversion factor that converts acre-inches per acre per year to gallons per square foot per year, LA is the total landscape area in square feet, SLA is the total spec and ETAF is .55 for residential areas and 0.45 for non- residential areas.

ETAF Calculations

Regular Landscape Areas

All Landscape Areas

Average ETAF for Regular Landscape Areas must be 0.55 or below for residential areas, and 0.45 or below for non- residential areas.

Total ETAF x Area	(B)
Total Area	(A)
Average ETAF	**B ÷ A**

Total ETAF x Area	(B+D)
Total Area	(A+C)
Sitewide ETAF	**(B+D) ÷ (A+C)**

CRITICAL ANALYSIS

Generated:	2022-01-07 08:31
P.O.C. NUMBER: 01	
Water Source Information:	meter per civil plans
FLOW AVAILABLE	
Water Meter Size:	3"
Flow Available:	225 GPM
PRESSURE AVAILABLE	
Static Pressure at POC:	107.00 PSI
Elevation Change:	5.00 ft
Service Line Size:	3"
Length of Service Line:	20 ft
Pressure Available:	105.00 psi
DESIGN ANALYSIS	
Maximum Multi-valve Flow:	100 GPM
Flow Available at POC:	225 GPM
Residual Flow Available:	125 GPM
Critical Station:	7
Design Pressure:	45 PSI
Friction Loss:	7.14 PSI
Fittings Loss:	0.71 PSI
Elevation Loss:	0 PSI
Loss through Valve:	4.86 PSI
Pressure Req. at Critical Station:	57.73 PSI
Loss for Fittings:	0.8 PSI
Loss for Main Line:	8.02 PSI
Loss for POC to Valve Elevation:	5.41 PSI
Loss for Backflow:	11.8 PSI
Loss for Master Valve:	2.5 PSI
Loss for Water Meter:	2.4 PSI
Critical Station Pressure at POC:	88.66 PSI
Pressure Available:	105 PSI
Residual Pressure Available:	16.34 PSI

LICENSED LANDSCAPE ARCHITECT — Date Exp'd or License No. — 9/30/2022 — Date 1/18/2022 — STATE OF CALIFORNIA

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Phone: 619.234.9411 / www.kimley-horn.com

VALLECITOS WATER DISTRICT
PRESSURE ZONE: 920 HGL
PUMP ZONE: N/A

AS-BUILT
(SIGNATURE) DATE
(PRINTED NAME) LICENSE NO. 85614

INSPECTED AND RECOMMENDED FOR ACCEPTANCE
Public Works Inspector Date

SAN MARCOS FIRE DEPARTMENT	VALLECITOS WATER DISTRICT	LANDSCAPE ARCHITECT OF WORK	CITY APPROVED CHANGES	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK
By: JASON NAILON, FIRE MARSHALL Date Approved Fire Hydrant Flow 1000 *(gpm) Gallons Per Minute VWD is not responsible for maintenance, repair or replacement of fire hydrants unless specified under separate agreement with the San Marcos fire Department.	By: JAMES H. GUMPEL, P.E. Date DISTRICT ENGINEER R.C.E. NO. C60160 exp: 6/22	By: RANDALL KOPFF R.C.E.: 6633 exp: 09/30/2022 Date: 1/18/2022	No. Description App'd By Date	By: Brian Banzuelo, Associate Civil Engineer R.C.E.: 83315 exp.: 3/31/2023 Date:	By: Isaac Etchamendy, City Engineer R.C.E.: 81294 exp.: 9/30/2023 Date:	Description: City of San Marcos Control Station CP-025 Location: N. 1,988,054.81 , E. 6,281,531.41 Record From: NV5 LS6310 CP-025 Elev.: 770.99' [768.69'] Datum: NAVD88 (feet, NGVD 29) *use table vertical datum adjustment*

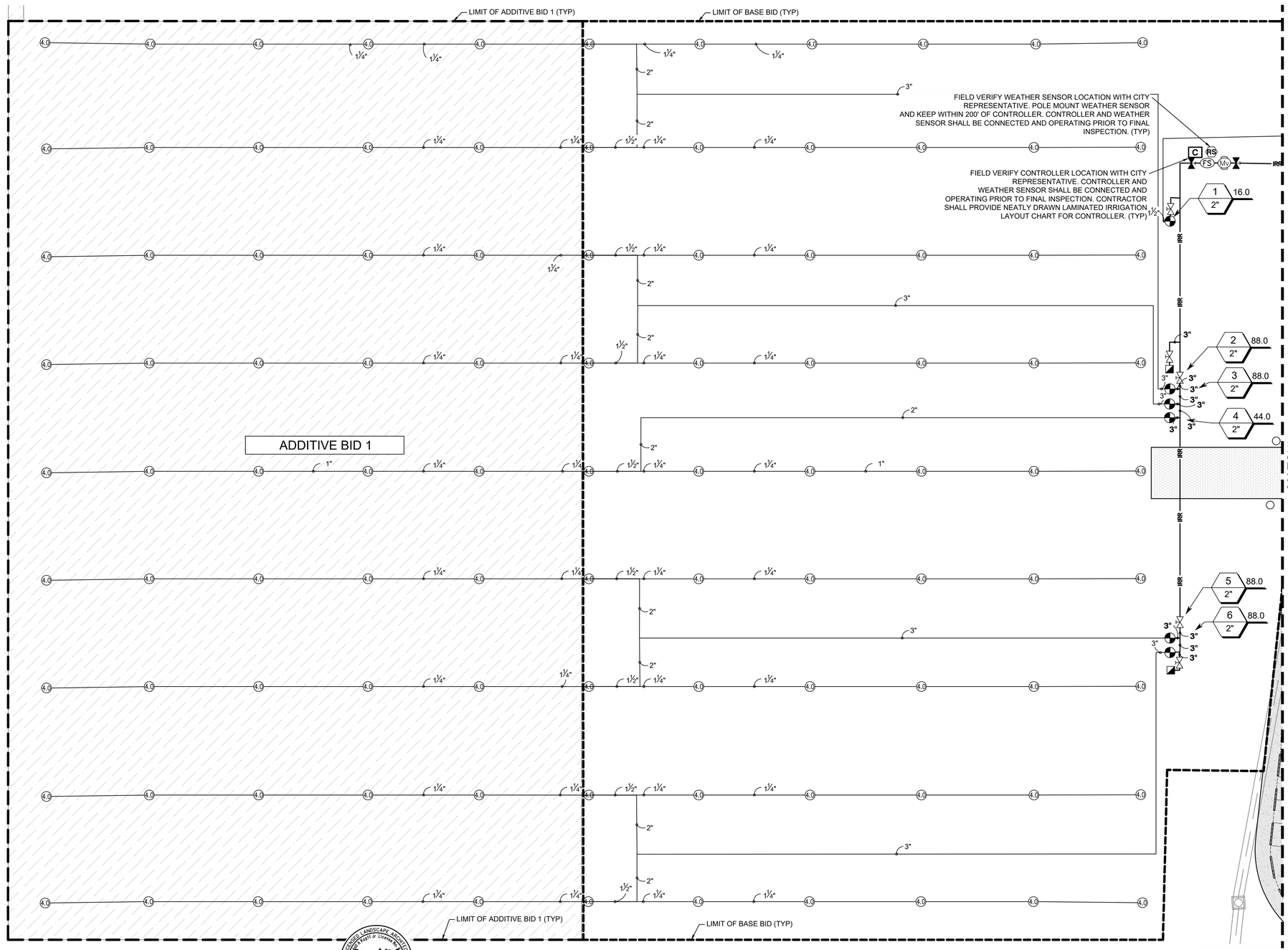
CITY OF SAN MARCOS
IRRIGATION SCHEDULES & CALCULATIONS FOR:
RANCHO CORONADO PARK IMPROVEMENTS

City Drawing No.
IP21-00011
Sheet 14 of 23

CIP# PK006

VWD WO#-250092

Drawing name: K:\SND_M\IN\095824104 - Rancho Coronado\Design\Plan Sheets\824104-IR.dwg 11 Jan 18, 2022 8:51am by: Madeline.David



IRRIGATION SCHEDULE BASE BID

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
25Q 50Q 50H 10H 10F 20F	HUNTER PROS-PRS30-06-MSBN 10F MULTI-STREAMER BUBBLER, 6" POP-UP, 25=.25GPM, 50=0.5GPM, 10=1.0GPM, 20=2.0GPM.	16

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
4.0	HUNTER I-20-06-SS -PRS TURF ROTOR, 6.0" POP-UP, ADJUSTABLE AND FULL CIRCLE. STAINLESS STEEL RISER. DRAIN CHECK VALVE. STANDARD NOZZLE. @45 PSI	54

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	RAIN BIRD PESB W/ LXIVMSOL 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION. NOTE: CONTRACTOR TO REPLACE VALVE SOLENOID WITH THE LXIVMSOL INTEGRATED 2-WIRE DECODER AND SOLENOID. (1) LXIVMSOL PER VALVE.	6
	RAIN BIRD 44-LRC 1" BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, LOCKING THERMOPLASTIC RUBBER COVER, AND 2-PIECE BODY.	2
	CLOW C509 3" RESILIENT WEDGE GATE VALVE. NRS WITH HANDWHEEL	2
	NIBCO T-585-70 TWO-PIECE BRONZE FULL PORT BALL VALVE WITH STAINLESS STEEL HANDLE	5
MV	HUNTER IBV 3" 3" BRASS ELECTRIC MASTER VALVE, GLOBE CONFIGURATION, WITH NPT THREADED INLET/OUTLET, FOR COMMERCIAL/MUNICIPAL USE.	1
BF	FEBCO 825Y 3" REDUCED PRESSURE BACKFLOW PREVENTER. SIZE 3" WITH A V.I.T SRONG BOX SBBC SERIES ENLOSURE WITH SMOOTH TOUCH FINISH.	1
C	CALSENSE CS3000 CONTROLLER, FLOW SENSING WITH 2 WIRE DECODER. IN EXTERIOR STAINLESS ENCLOSURE.	1
RS	CALSENSE ET GAUGE WIRELESS RAIN AND FREEZE SENSOR COMBO, INCLUDES 1 RECEIVER AND 1 RAIN/FREEZE SENSOR TRANSMITTER, POLE MOUNTED	1
FS	CALSENSE FM-2B	1
M	WATER METER 3" METER PER CIVIL PLANS	1
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40	4,716 L.F.
IRR	IRRIGATION MAINLINE: PVC CLASS 315	773.5 L.F.

Valve Callout
- Valve Number
- Controller Letter
- Valve Flow
- Valve Size

IRRIGATION SCHEDULE ADDITIVE BID 1

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
4.0	HUNTER I-20-06-SS -PRS TURF ROTOR, 6.0" POP-UP. ADJUSTABLE AND FULL CIRCLE. STAINLESS STEEL RISER. DRAIN CHECK VALVE. STANDARD NOZZLE. @45 PSI	45

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40	2,092 L.F.

LEGEND

ADDITIVE BID 1

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

LANDSCAPE ARCHITECT
LICENSED LANDSCAPE ARCHITECT
RANDALL KOPFF
License No. 6633
9/30/2022
Renewal Date
1/18/2022
STATE OF CALIFORNIA

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VALLECITOS WATER DISTRICT
PRESSURE ZONE: 920 HGL
PUMP ZONE: N/A

AS-BUILT
(SIGNATURE) DATE
(PRINTED NAME) 85614 LICENSE NO.

INSPECTED AND RECOMMENDED FOR ACCEPTANCE
Public Works Inspector Date

CIP# PK006

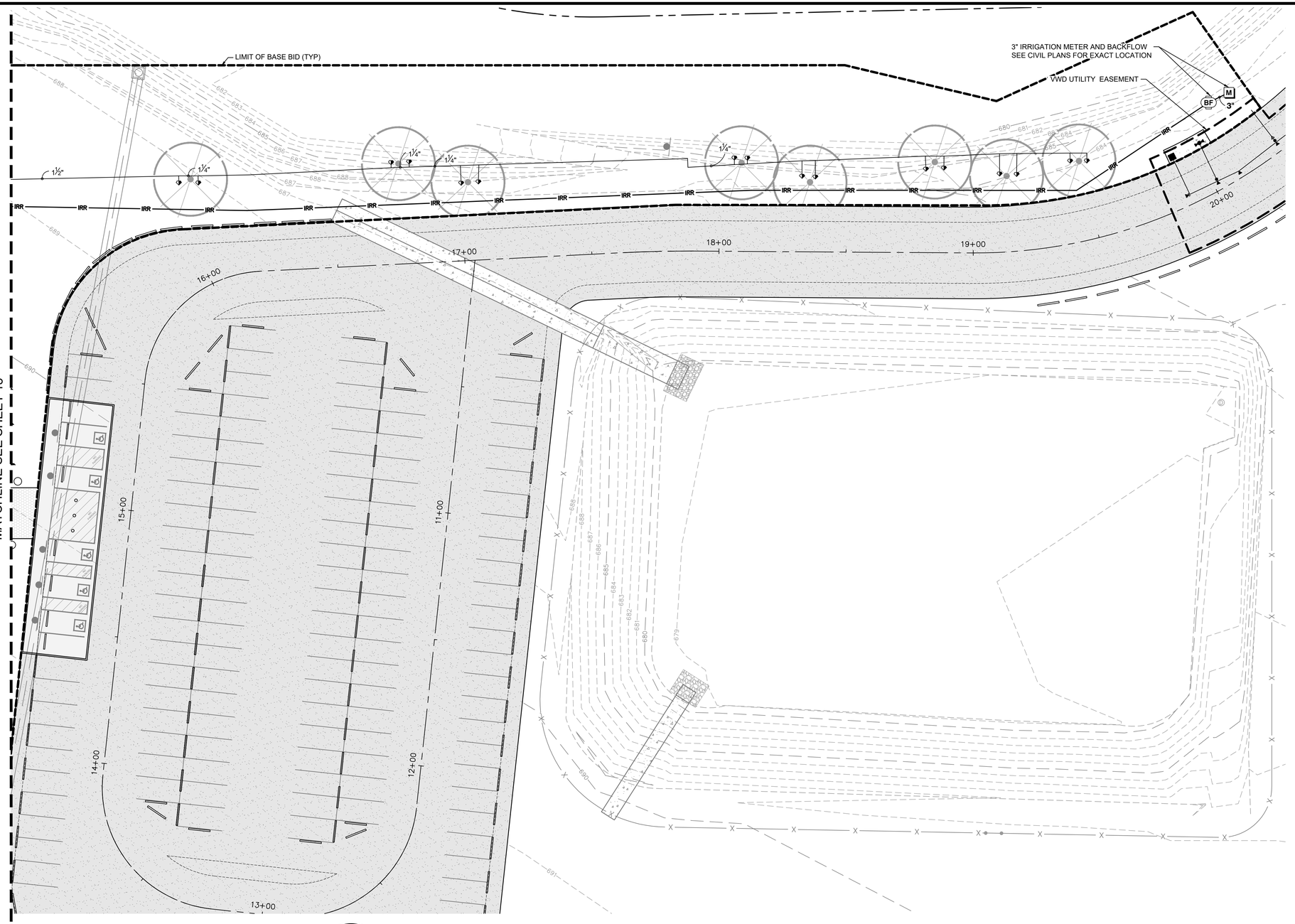
SAN MARCOS FIRE DEPARTMENT	VALLECITOS WATER DISTRICT	LANDSCAPE ARCHITECT OF WORK	CITY APPROVED CHANGES	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK
By: JASON NAILON, FIRE MARSHALL Date Approved Fire Hydrant Flow 1000 *(gpm) Gallons Per Minute VWD is not responsible for maintenance, repair or replacement of fire hydrants unless specified under separate agreement with the San Marcos fire Department.	By: JAMES H. GUMPEL, P.E. Date DISTRICT ENGINEER R.C.E. NO. C60160 exp: 6/22	By: RANDALL KOPFF R.C.E.: 6633 exp: 09/30/2022 Date: 1/18/2022	No. Description App'd By Date	By: Brian Banzuelo, Associate Civil Engineer R.C.E.: 83315 exp.: 3/31/2023 Date:	By: Isaac Etchamendy, City Engineer R.C.E.: 81294 exp.: 9/30/2023 Date:	Description: City of San Marcos Control Station CP-025 Location: N. 1,988,054.81 , E. 6,281,531.41 Record From: NV5 LS6310 CP-025 NAD83(CORS 2011) EPOCH:2010.00 Elev.: 770.99' [768.69'] Datum: NAVD (GEOID 18) NAVD (GEOID) VERTICAL DATUM: NGVD 29

CITY OF SAN MARCOS
IRRIGATION PLAN FOR:
RANCHO CORONADO PARK IMPROVEMENTS

City Drawing No.
IP21-00011
Sheet 15 of 23

VWD WO#-250092

Drawing name: K:\SND_MUN\095824104 - Rancho Coronado\Design\Plan Sheets\824104-IR.dwg 12 Jan 18, 2022 8:51am by: Madeline Dodd



IRRIGATION SCHEDULE BASE BID

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
25Q 50Q 50H 10H 10F 20F	HUNTER PROS-PRS30-06-MSBN 10F MULTI-STREAMER BUBBLER, 6" POP-UP, 25=.25GPM, 50=0.5GPM, 10=1.0GPM, 20=2.0GPM.	16

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
6.0	HUNTER I-20-06-SS -PRS TURF ROTOR, 6.0" POP-UP, ADJUSTABLE AND FULL CIRCLE. STAINLESS STEEL RISER. DRAIN CHECK VALVE. STANDARD NOZZLE. @45 PSI	54

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	RAIN BIRD PESB W/ LXIVMSOL 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION. NOTE: CONTRACTOR TO REPLACE VALVE SOLENOID WITH THE LXIVMSOL INTEGRATED 2-WIRE DECODER AND SOLENOID. (1) LXIVMSOL PER VALVE.	6
	RAIN BIRD 44-LRC 1" BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, LOCKING THERMOPLASTIC RUBBER COVER, AND 2-PIECE BODY.	2
	CLOW C509 3" RESILIENT WEDGE GATE VALVE. NRS WITH HANDWHEEL	2
	NIBCO T-585-70 TWO-PIECE BRONZE FULL PORT BALL VALVE WITH STAINLESS STEEL HANDLE	5
MV	HUNTER IBV 3" 3" BRASS ELECTRIC MASTER VALVE, GLOBE CONFIGURATION, WITH NPT THREADED INLET/OUTLET, FOR COMMERCIAL/MUNICIPAL USE.	1
BF	FEBCO 825Y 3" REDUCED PRESSURE BACKFLOW PREVENTER. SIZE 3" WITH A V.I.T SRONG BOX SBBC SERIES ENLOSURE WITH SMOOTH TOUCH FINISH.	1
C	CALSENSE CS3000 CONTROLLER, FLOW SENSING WITH 2 WIRE DECODER. IN EXTERIOR STAINLESS ENCLOSURE.	1
RS	CALSENSE ET GAUGE WIRELESS RAIN AND FREEZE SENSOR COMBO, INCLUDES 1 RECEIVER AND 1 RAIN/FREEZE SENSOR TRANSMITTER, POLE MOUNTED	1
FS	CALSENSE FM-2B	1
M	WATER METER 3" METER PER CIVIL PLANS	1
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40	4,716 L.F.
IRR	IRRIGATION MAINLINE: PVC CLASS 315	773.5 L.F.

Valve Callout
- Valve Number
- Controller Letter
- Valve Flow
- Valve Size

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

LICENSED LANDSCAPE ARCHITECT — Date Exempt Per Chapter of License Act — 9/30/2022 — Renewal Date 1/18/2022 — STATE OF CALIFORNIA

Kimley»Horn Kimley-Horn and Associates, Inc. ©2021
401 B Street, Suite 600, San Diego, California 92101
Phone: 619.234.9411 / www.kimley-horn.com

VALLECITOS WATER DISTRICT
PRESSURE ZONE: 920 HGL
PUMP ZONE: N/A

AS-BUILT
(SIGNATURE) DATE
(PRINTED NAME) 85614 LICENSE NO.

INSPECTED AND RECOMMENDED FOR ACCEPTANCE
Public Works Inspector Date

CIP# PK006

SAN MARCOS FIRE DEPARTMENT	VALLECITOS WATER DISTRICT	LANDSCAPE ARCHITECT OF WORK	CITY APPROVED CHANGES	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK
By: JASON NAILON, FIRE MARSHALL Date Approved Fire Hydrant Flow 1000 *(gpm) Gallons Per Minute VWD is not responsible for maintenance, repair or replacement of fire hydrants unless specified under separate agreement with the San Marcos fire Department.	By: JAMES H. GUMPEL, P.E. Date DISTRICT ENGINEER R.C.E. NO. C60160 exp: 6/22	By: RANDALL KOPFF R.C.E.: 6633 exp: 09/30/2022 Date: 1/18/2022	No. Description App'd By Date	By: Brian Banzuelo, Associate Civil Engineer R.C.E.: 83315 exp.: 3/31/2023 Date:	By: Isaac Etchamendy, City Engineer R.C.E.: 81294 exp.: 9/30/2023 Date:	Description: City of San Marcos Control Station CP-025 Location: N. 1,988,054.81 , E. 6,281,531.41 Record From: NVS LS6310 CP-025 NAD83(2007) EPOCH: 2007.00 Elev.: 770.99' [768.69'] Datum: NAVD88 VERTICAL DATUM ADJUSTMENT

CITY OF SAN MARCOS
IRRIGATION PLAN FOR:
RANCHO CORONADO PARK IMPROVEMENTS

City Drawing No.
IP21-00011
Sheet 16 of 23

VWD WO#-250092

Drawing name: K:\SND_MUNI\095824104 - Rancho Coronado\Design\Plan Sheets\824104-IR.dwg 13 Jan 18, 2022 8:51am by: Madeline.David

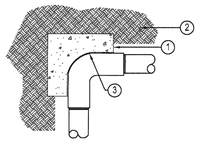


FIG. 1 (90° ELL)
SCALE: NTS

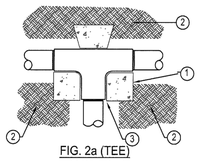


FIG. 2a (TEE)
SCALE: NTS

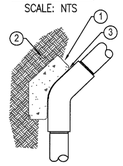


FIG. 3 (45°, 22.5°, 11.5° ELL)
SCALE: NTS

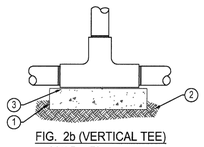


FIG. 2b (VERTICAL TEE)
SCALE: NTS

LEGEND:

1. CONCRETE THRUST BLOCK, SEE BEARING AREA CHART FOR SIZING.
2. THRUST BLOCKS TO EXTEND INTO UNDISTURBED SOIL.
3. INSTALL PLASTIC 4 MIL SHEETING BETWEEN PIPE AND THRUST BLOCK.

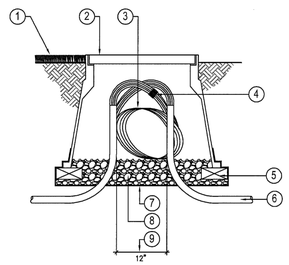
NOTES:

1. THRUST BLOCKS TO BE CONSTRUCTED OF PORTLAND CEMENT WITH A MINIMUM STRENGTH OF 2500 PSI (520-C-2500)
2. THRUST BLOCKS SHALL BE USED FOR PRESSURE MAINLINES WITH 2" DIAMETER OR LARGER.
3. EVACUATE INTO UNDISTURBED SOIL BEHIND FITTING AS NECESSARY TO INSTALL THRUST BLOCK WITH REQUIRED BEARING AREA. MINIMUM AREA BETWEEN THRUST BLOCK AND UNDISTURBED SOIL TO BE 6" ON SMALLER PIPE. NO THRUST BLOCKS UNDER 1 CU.FT.
4. INSTALL TRUST BLOCKS AS DETAILED UNLESS OTHERWISE DIRECTED BY CITY INSPECTOR.

BEARING AREA IN CUBIC FEET
(BEARING AREA IS THE AREA OF CONTACT BETWEEN THE THRUST BLOCK AND UNDISTURBED SOIL DIRECTLY BEHIND FITTING)

PIPE SIZE	FIG. 1	FIG. 2a & 2b	FIG. 3		
	90°	TEES	45°	22.5°	11.5°
2"	1	1	1	1	1
2 1/2"	2	2	1	1	1
3"	4	3	2	1	1
4"	5	4	3	1	1
6"	9	7	5	3	1

Approved By: Victor Lopez	Date: AUG. 01, 2015	CITY OF SAN MARCOS	Scale: N.T.S.
Drawn By: LCP	Date:	CONCRETE THRUST BLOCKS	Drawing No.: I-4

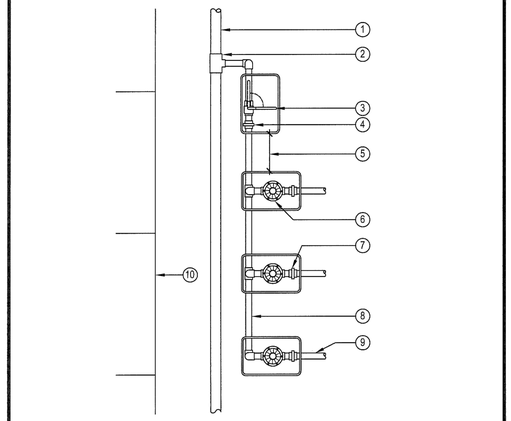


LEGEND:

1. INSTALL BOX 1" ABOVE FINISH GRADE IN TURF AREAS: 2" IN SHRUB AREAS: FLUSH IN PAVED AREAS
2. IN TURF/SHRUB AREAS USE PLASTIC STANDARD RECTANGULAR VALVE BOX WITH LOCKING COVER, USE STAINLESS STEEL BOLT, NUT AND WASHER. IN HARDSCAPE AREAS USE TRAFFIC RATED STANDARD RECTANGULAR CONCRETE BOX W/LOCKING CAST IRON COVER. BRAND/GRIND PB ON BOX LID.
3. 72" WIRE LOOP - TYPICAL.
4. WIRE CONNECTORS (SEE CITY OF SAN MARCOS IRRIGATION AND LANDSCAPE APPROVED MATERIAL LIST FOR ACCEPTABLE CONNECTORS).
5. BRICK SUPPORTS OR CONCRETE BLOCKING - 4 MINIMUM.
6. PVC ELECTRICAL SWEEP IF INSTALLED IN CONDUIT.
7. LANDSCAPE FABRIC.
8. 3/4" CRUSHED ROCK, 2 CUBIC FT.
9. 12" SEPARATION FOR SWEEPS INTO PULL BOX.

* SEE CITY OF SAN MARCOS IRRIGATION & LANDSCAPE APPROVED MATERIAL LISTS

Approved By: Sheila Brusch	Date: DEC. 1, 2011	CITY OF SAN MARCOS	Scale: N.T.S.
Drawn By: LCP	Date:	IRRIGATION PULL BOX w/ CONTROL WIRE LOOP OR SPLICE	Drawing No.: I-26

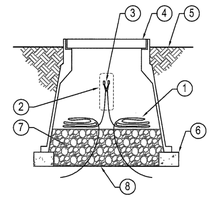


LEGEND:

1. IRRIGATION MAINLINE
2. SCH. 80 PVC TEE, SxSxT MAINLINE X MANIFOLD SIZE.
3. BALL TYPE ISOLATION VALVE.
4. SCH. 80 PVC UNION.
5. MINIMUM 12", MAXIMUM 36" SEPARATION BETWEEN ALL VALVE BOXES.
6. REMOTE CONTROL VALVE.
7. SCH. 80 PVC UNION.
8. IRRIGATION SUB-MAINLINE.
9. LATERAL LINE TO SPRINKLERS.
10. HARDSCAPE EDGE. INSTALL MAINLINE 12"-18" OFF OF HARDSCAPE EDGE.

* SEE CITY OF SAN MARCOS IRRIGATION & LANDSCAPE APPROVED MATERIAL LISTS

Approved By: Sheila Brusch	Date: DEC. 1, 2011	CITY OF SAN MARCOS	Scale: N.T.S.
Drawn By: LCP	Date:	R.C. VALVE MANIFOLD LAYOUT	Drawing No.: I-27



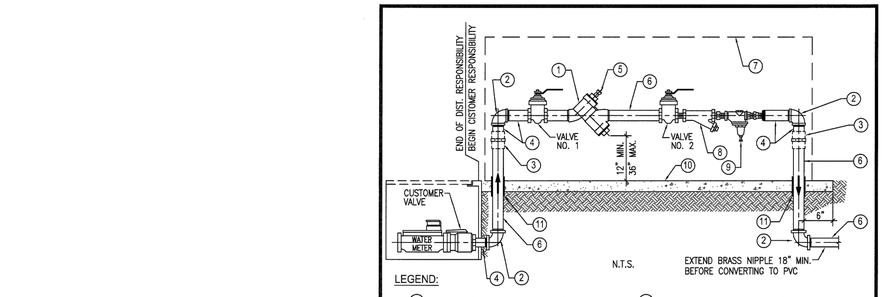
N.T.S.

LEGEND:

1. PE CABLE (36" LOOP).
2. PRE-FORMED SUPER SERVISEAL WATERPROOF WIRE SPLICE K1.
3. APPROVED UAL CONNECTORS
4. TRAFFIC RATED 10" ROUND CONCRETE BOX W/ LOCKING CAST IRON COVER IN HARDSCAPE AREAS. PLASTIC 10" ROUND BOX WITH LOCKING COVER AND STAINLESS STEEL BOLTS IN LANDSCAPE AREAS. GRIND/HEAT BRAND "SPLICE" ON TOP OF COVER.
5. FINISH GRADE - INSTALL BOX 1" ABOVE FINISH GRADE IN TURF AREAS,, 2" IN SHRUB AREAS AND FLUSH IN PAVED AREAS.
6. BRICKS SUPPORT OR CONCRETE BLOCKINGS, 4 MINIMUM.
7. 3/4" CRUSHED ROCK - 2 CUBIC FT.
8. LANDSCAPE FABRIC

* SEE CITY OF SAN MARCOS IRRIGATION & LANDSCAPE APPROVED MATERIAL LISTS

Approved By: Victor Lopez	Date: AUG. 01, 2015	CITY OF SAN MARCOS	Scale: N.T.S.
Drawn By: LCP	Date:	MAXICOM PE-CABLE SPLICE	Drawing No.: I-13



N.T.S.

EXTEND BRASS NIPPLE 18" MIN. BEFORE CONVERTING TO PVC

LEGEND:

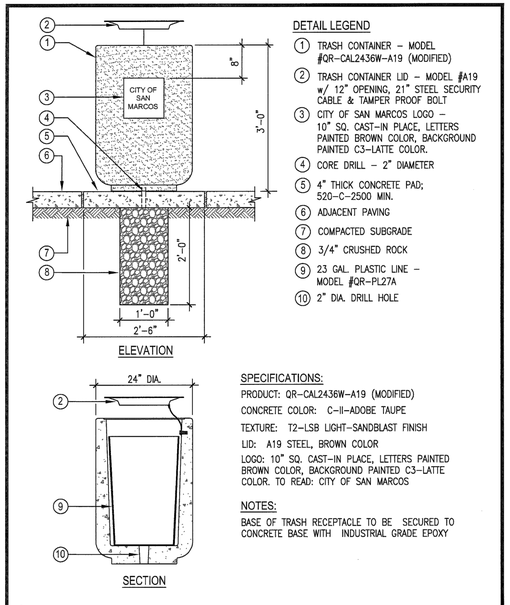
1. APPROVED BACKFLOW PREVENTION DEVICE.
2. RED BRASS 90° ELBOW.
3. RED BRASS THREADED UNION.
4. RED BRASS NIPPLE, VARIES IN LENGTH.
5. TEST COCK (4 REQUIRED).
6. RED BRASS.
7. BACKFLOW PREVENTER ENCLOSURE.
8. BRONZE STRAINERS WITH LOOSE KEY CLEANOUT.
9. "HIGH RANGE" PRESSURE REGULATOR.
10. CONCRETE PAD
11. 10 MIL. PVC PIPE WRAP TAPE - WRAP PIPE 2" ABOVE AND BELOW CONCRETE

NOTES:

1. ALL INSTALLATIONS SHALL BE ABOVE GROUND.
2. ALL BACKFLOW PREVENTION DEVICES SHALL BE AS CLOSE TO THE WATER METER AS POSSIBLE.
3. NO CONNECTION SHALL BE MADE BETWEEN THE WATER METER AND THE BACKFLOW PREVENTION DEVICE.
4. CONCRETE PAD SHALL BE 4" THICK x 18" WIDE MINIMUM X LENGTH AS REQUIRED. MINIMUM STRENGTH OF 2500 PSI (520-C-2500)
5. REFER TO STANDARD DRAWINGS FOR INSTALLATION OF WATER METER AND SERVICE.
6. CLOSE NIPPLES SHALL NOT BE USED.
7. TEFLON TAPE 3/4" WIDE SHALL BE USED ON ALL THREADED CONNECTIONS.
8. ALL BRASS COMPONENTS TO BE LEAD FREE
9. IRRIGATION METER TO BE 1' MINIMUM.
10. RP BACKFLOW SIZE TO BE ½" GREATER THEN WATER METER.

* SEE CITY OF SAN MARCOS IRRIGATION & LANDSCAPE APPROVED MATERIAL LISTS

Approved By: Victor Lopez	DATE: AUG 01, 2017	CITY OF SAN MARCOS	Scale: N.T.S.
Drawn By: LCP	Date:	BACKFLOW PREVENTION DEVICE	Drawing No.: I-5



ELEVATION

SECTION

DETAIL LEGEND

1. TRASH CONTAINER - MODEL #QR-CAL2436W-A19 (MODIFIED)
2. TRASH CONTAINER LID - MODEL #A19 w/ 12" OPENING, 21" STEEL SECURITY CABLE & TAMPER PROOF BOLT
3. CITY OF SAN MARCOS LOGO - 10" SQ. CAST-IN PLACE, LETTERS PAINTED BROWN COLOR, BACKGROUND PAINTED C3-LATTE COLOR.
4. CORE DRILL - 2" DIAMETER
5. 4" THICK CONCRETE PAD; 520-C-2500 MIN.
6. ADJACENT PAVING
7. COMPACTED SUBGRADE
8. 3/4" CRUSHED ROCK
9. 23 GAL. PLASTIC LINE - MODEL #QR-PL27A
10. 2" DIA. DRILL HOLE

SPECIFICATIONS:

PRODUCT: QR-CAL2436W-A19 (MODIFIED)

CONCRETE COLOR: C-11-ADOBE TAUPE

TEXTURE: T2-LSB LIGHT-SANDBLAST FINISH

LID: A19 STEEL, BROWN COLOR

LOGO: 10" SQ. CAST-IN PLACE, LETTERS PAINTED BROWN COLOR, BACKGROUND PAINTED C3-LATTE COLOR. TO READ: CITY OF SAN MARCOS

NOTES:

BASE OF TRASH RECEPTACLE TO BE SECURED TO CONCRETE BASE WITH INDUSTRIAL GRADE EPOXY

* SEE CITY OF SAN MARCOS IRRIGATION & LANDSCAPE APPROVED MATERIAL LISTS

Approved By: Victor Lopez	Date: AUG. 01, 2015	CITY OF SAN MARCOS	Scale: N.T.S.
Drawn By: LCP	Date:	TRASH RECEPTACLE	Drawing No.: M-1

LICENSED LANDSCAPE ARCHITECT — License Expires 1/31/2023 — 9/30/2022 — 1/18/2022 — STATE OF CALIFORNIA

AS-BUILT	INSPECTED AND RECOMMENDED FOR ACCEPTANCE
(SIGNATURE) DATE	Public Works Inspector Date
(PRINTED NAME) 85614 LICENSE NO.	

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401 B Street, Suite 600, San Diego, California 92101
Phone: 619.234.9411 / www.kimley-horn.com

VALLECITOS WATER DISTRICT
PRESSURE ZONE: 920 HGL
PUMP ZONE: N/A

SAN MARCOS FIRE DEPARTMENT	VALLECITOS WATER DISTRICT	LANDSCAPE ARCHITECT OF WORK
By: JASON NAILON, FIRE MARSHALL Date	By: JAMES H. GUMPEL, P.E. Date	By: RANDALL KOPFF
Approved Fire Hydrant Flow 1000 *(gpm) Gallons Per Minute *VWD is not responsible for maintenance, repair or replacement of fire hydrants unless specified under separate agreement with the San Marcos fire Department.	DISTRICT ENGINEER	R.C.E.: 6633 exp: 09/30/2022
	R.C.E. NO. C60160 exp: 6/22	Date: 1/18/2022

CITY APPROVED CHANGES			
No.	Description	App'd By	Date

RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION
By: Brian Banzuelo, Associate Civil Engineer	By: Isaac Etchamendy, City Engineer
R.C.E.: 83315 exp.: 3/31/2023	R.C.E.: 81294 exp.: 9/30/2023
Date:	Date:

BENCH MARK
Description: City of San Marcos Control Station CP-025
Location: N. 1,988,054.81 , E. 6,281,531.41
Record From: NV5 LS6310 CP-025
Elev.: 770.99' [768.69'] Datum: NAVD88 [NAD, NGVD '29]

CITY STANDARD DETAILS FOR:

CITY OF SAN MARCOS

RANCHO CORONADO PARK IMPROVEMENTS

CIP# PK006
City Drawing No. IP21-00011
Sheet 17 of 23

VWD WO#-250092

Drawing name: K:\SND_MUNI\205834104 - Rancho Coronado\Design\Plan Sheets\8234104-IR.dwg 16 Jan 18, 2022 8:51am by: Madeline.David

ELECTRICAL NOTES

1. ALL EQUIPMENT, MATERIALS AND WORK SHOWN ARE NEW UNLESS SPECIFICALLY NOTED AS EXISTING OR OTHERWISE ON SHEETS.
2. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, TOOLS, ACCESSORIES, ETC. REQUIRED FOR A COMPLETE WORKING ELECTRICAL SYSTEM.
3. ALL ELECTRICAL WORK, MATERIALS, EQUIPMENT, AND INCIDENTALS INCLUDING CONDUIT, WIRING, CONNECTIONS, AND TESTING SHALL BE IN FULL ACCORDANCE WITH CITY OF SAN MARCOS STANDARDS AND THE LATEST EDITIONS OF THE FOLLOWING: NATIONAL ELECTRIC CODE, CAC TITLE 24 PART 3: BASIC ELECTRICAL REGULATIONS, CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ACT (CAL/OSHA) FOR LOW WATTAGE ELECTRICAL ORDERS, ALL APPLICABLE LOCAL LAWS, REGULATIONS, AND/OR ORDINANCES, AND CAL/OSHA CONSTRUCTION SAFETY ORDERS.
4. OBTAIN WRITTEN APPROVAL FROM THE CITY ENGINEER OF ALL SHOP DRAWINGS AND MANUFACTURERS DATA FOR PANEL BOARDS, TRANSFORMERS, WIRING DEVICES, ETC. BEFORE RELEASING ORDERED MATERIALS. SUBMITTAL DATA SHALL INDICATE THAT THE CONTRACTOR HAS REVIEWED THE INFORMATION THEREIN AND THAT THE PROPOSED EQUIPMENT WILL MEET THE PHYSICAL CONSTRAINTS AT THE JOB SITE. ANY SUBSTITUTIONS SHALL BE OF THE EQUIVALENT OR BETTER QUALITY THAN THE SPECIFIED COMPONENTS.
5. THE USE OF SERIES RATING OF UPSTREAM OR DOWNSTREAM CIRCUIT BREAKERS OR FUSES IS PROHIBITED. ONLY FULLY RATED SYSTEM COMPONENTS WILL BE ACCEPTED.
6. ALL UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 80. ALL ELBOWS AND EXPOSED RISERS SHALL BE RIGID STEEL CONDUIT.
7. VERIFY EXACT LOCATION OF PEDESTALS, CONTROLLERS, AND PULL BOXES PRIOR TO ROUGH-IN.
8. PULL ROPES: PROVIDE 1/4" DIA NYLON PULL ROPE IN EACH CONDUIT.
9. ALL MULTIPLE POLE CIRCUITS SHALL BE PROVIDED WITH HANDLE TIES AS REQUIRED BY NEC.
10. CONDUIT/ CONDUCTOR RUNS SHOWN ARE DIAGRAMMATICAL ONLY. THE BEST FINAL CONDUIT ROUTING SHALL BE AS DETERMINED BY THE ELECTRICAL CONTRACTOR AT THE TIME OF CONSTRUCTION.
11. PRIOR TO PURCHASE OF ANY PANEL, PROTECTIVE DEVICES, SWITCH, CONDUIT, WIRE, ETC., TO FEED ANY PIECE OF EQUIPMENT, VERIFY THE VOLTAGE, PHASE, AND LOAD OF THAT ITEM IN THE FIELD WITH THE CITY ENGINEER AND EQUIPMENT MANUFACTURER (IF APPLICABLE) SUCH THAT THE PROPER SIZE & RATING OF THE MATERIALS ARE PURCHASED. NO EXTRAS WILL BE ALLOWED FOR FAILURE TO COMPLY.
12. VERIFY THE EXACT LOCATION AND ELEVATION OF ALL ELECTRICAL EQUIPMENT PRIOR TO ROUGH-IN. FINAL CONNECTIONS OF EQUIPMENT SHALL BE PER MANUFACTURERS APPROVED WIRING DIAGRAMS, DETAILS AND INSTRUCTIONS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED.
13. ALL PANEL BOARDS, SWITCHES, AND SWITCHBOARD CIRCUIT BREAKERS SHALL HAVE ENGRAVED NAMEPLATES.
14. PROVIDE ALL PANEL BOARDS WITH TYPED DIRECTORIES INSTALLED UNDER A CLEAR PLASTIC COVER. SUBMIT DIRECTORY INFORMATION TO THE CITY OF SAN MARCOS FOR APPROVAL PRIOR TO FINALIZATION.
15. IT IS THE CONTRACTOR'S RESPONSIBILITY TO RESTORE ALL PROPERTY, LANDSCAPING, PAVING, AND DRIVEWAYS THAT ARE DISTURBED DURING CONSTRUCTION TO THEIR ORIGINAL CONDITION.
16. THE PLANS SHOW THE GENERAL PATH AND LOCATION OF CONDUIT AND PULL BOXES IN RELATION TO MAJOR PHYSICAL FEATURES. THE CONTRACTOR SHALL NOTE THAT ELEMENT LOCATIONS ARE APPROXIMATE AND MAY CHANGE DURING CONSTRUCTION. THESE CHANGES MAY RESULT IN CHANGES TO CONDUIT LENGTHS ALONG WITH MINOR QUANTITY CHANGES.
17. HOLES, CAVITIES, TRENCHES, AND DEPRESSIONS RESULTING FROM THE REMOVAL OF STRUCTURES OR OBSTRUCTIONS, EXCEPT IN AREAS TO BE EXCAVATED, SHALL BE BACKFILLED WITH SUITABLE MATERIAL WHICH SHALL BE COMPACTED TO A DENSITY OF NOT LESS THAN 95% OF THE MAXIMUM DENSITY AS DETERMINED BY ASTM D698, D-2922 AND D-3017. SURPLUS EXCAVATION MATERIALS SHALL BE LEGALLY DISPOSED OF BY THE CONTRACTOR.
18. ALL CONDUCTORS SHALL BE IDENTIFIED AT PULL BOXES, LOAD CENTERS AND FIXTURES. ALL WIRING DEVICES SHALL HAVE A TAG ON THE BACK OF THE COVER PLATE IDENTIFYING THE PANEL AND CIRCUIT NUMBER FROM WHICH THEY ARE FED.
19. ELECTRICAL SYSTEMS SHALL BE GROUNDED AND BONDED PER ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE. PROVIDE GROUND WIRE FOR EACH PIECE OF EQUIPMENT AND FOR EACH BRANCH CIRCUIT.
20. ALL PROPOSED PULL BOXES SHALL BE NO. 3-1/2 PER CALTRANS STD PLANS ES-8 (15-3/8" X 10-1/8") UNLESS OTHERWISE NOTED IN PLANS.
21. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EXISTING ELECTRICAL CONNECTIONS.
22. INSTALLATION OF EQUIPMENT, COMPONENTS, AND WIRING FOR ELECTRICAL SYSTEMS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE EQUIPMENT MANUFACTURER.
23. CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY, STORAGE, AND HANDLING OF ALL MATERIALS AND EQUIPMENT PRIOR TO FINAL ACCEPTANCE. ANY DAMAGED MATERIAL OR EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
24. ALL EQUIPMENT SHALL BE "UL" LISTED. LABEL OR LISTING OF UNDERWRITER'S LABORATORIES, INC. WILL BE ACCEPTED AS EVIDENCE THAT MATERIALS OR EQUIPMENT CONFORM TO APPLICABLE STANDARDS OF THAT AGENCY.
25. PRIOR TO ACCEPTANCE, THE CONTRACTOR SHALL ENERGIZE AND OPERATE THE SYSTEM FOR TWO (2) CONSECUTIVE DAYS WITHOUT INTERRUPTION OR FAILURE. IF ANY EQUIPMENT OR MATERIAL SHOULD FAIL, IT SHALL BE REPLACED IMMEDIATELY AND RETESTED.
26. ELECTRICAL CONTRACTOR SHALL GUARANTEE THE ELECTRICAL WORK TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE.
27. PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
28. NATIONAL ELECTRICAL CODE (NEC) WIRE COLOR CODING SHALL BE USED FOR ALL ELECTRICAL WORK.

LEGEND

- NEW METER PEDESTAL
- [E] NEW ELECTRICAL PULL BOX
- [C] NEW IRRIGATION CONTROLLER
- — — — — NEW ELECTRICAL CONDUIT

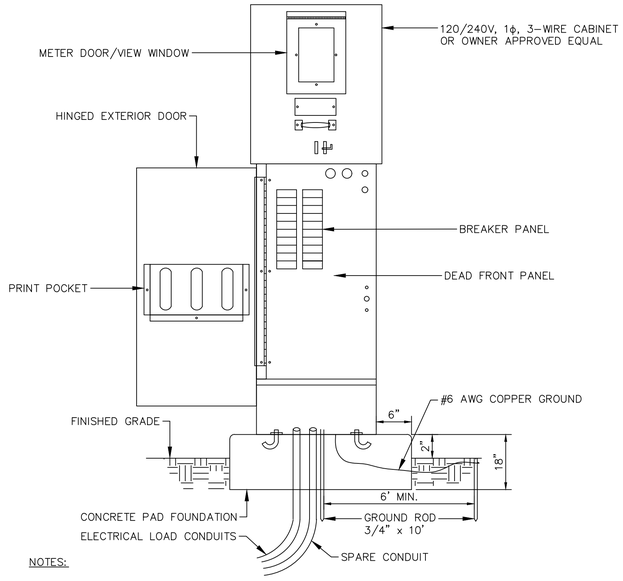
PANEL: "A"

VOLTAGE: 120/240 — PANEL BUS: 100 AMPS
PHASE, WIRES: 1ø, 3W — MAIN: 100 BREAKER
SCCR (AMPS): 42,000
SOURCE: XFMR A

DESCRIPTION	VA	CB	CKT	A	B	CKT	CB	VA	DESCRIPTION
IRRIGATION CONTROLLER	120	20/1P	1	1.0		2			SPACE
SPACE			3		0.0	4			SPACE
SPACE			5	0.0		6			SPACE
SPACE			7		0.0	8			SPACE
SPACE			9	0.0		10			SPACE
SPACE			11		0.0	12			SPACE
SPACE			13	0.0		14			SPACE
SPACE			15		0.0	16			SPACE
SPACE			17	0.0		18			SPACE
SPACE			19		0.0	20			SPACE
SPACE			21	0.0		22			SPACE
SPACE			23		0.0	24			SPACE
			TOTALS	1.0	0.0	AMPS			

LOAD CALCULATIONS:
SUBTOTAL (VA): 120
+25% PER NEC (VA): N/A
TOTAL (VA): 120 @ 240V, 1Ø = 0.5 AMPS

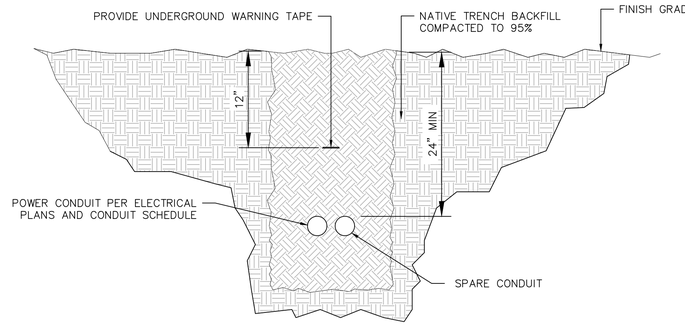
1 SERVICE PANEL 'A' SCHEDULE
NTS



NOTES:

1. FURNISH AND INSTALL ELECTRICAL METER PEDESTAL BY PACIFIC UTILITY PRODUCTS USP-M100-188CTB-SD OR APPROVED EQUAL, WITH ALL STAINLESS STEEL INTERNALS.
2. CONTRACTOR TO SUBMIT FOR APPROVAL SHOP DRAWINGS FOR CONTROL CENTER RELATED MATERIAL.
3. INSTALLATION AND MATERIALS SHALL COMPLY WITH UTILITY COMPANY STANDARDS AND REQUIREMENTS.
4. 1" SLEEVE (FOR GROUND ROD) SHALL BE INSERTED WHEN FOUNDATION IS POURED PER UTILITY COMPANY REQUIREMENTS.
5. LINE SIDE CONDUIT SHALL BE PER UTILITY COMPANY REQUIREMENTS.
6. CONTROLLER CABINET SHALL BE EQUIPPED WITH A HIGH PRESSURE LUG FOR UTILITY CONDUCTOR CONNECTION.
7. CONCRETE PAD SHALL EXTEND 6" BEYOND METER PEDESTAL ON ALL SIDES.
8. PACIFIC UTILITY PRODUCTS USP-M100-188CTB-SD OR APPROVED EQUAL, WITH ALL STAINLESS STEEL INTERNALS

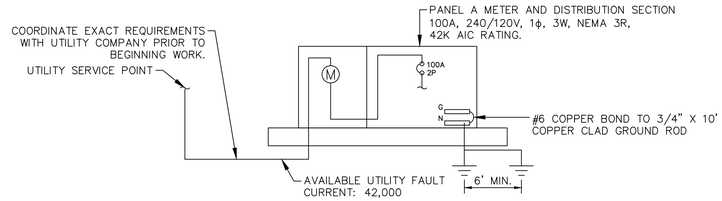
2 ELECTRICAL METAL PEDESTAL DETAIL
NTS



3 TRENCH DETAIL
NTS

Point	Point Name	Source* Point	Source Amps	Conduit Type	Conductor Type	Wire Size/Quantity			Load (A)	Distance	Voltage	Phase	**% Vdrop	Point
1	120 / 240 1 ph 100	42472	42,472											1
2	Irrigation Controller	1	42,472	NM	Copper	1	Set of	12	1	950	120	1	2.69%	2

4 VOLTAGE DROP
NTS



5 SERVICE PANEL SINGLE LINE DIAGRAM 939 SANTA BARBARA DRIVE . #I
NTS

KIMLEY-HORN
MICHAEL A. COLOMBO
401 B STREET, STE. 600
SAN DIEGO, CA 92101
602.371.4538

REGISTERED PROFESSIONAL ENGINEER — MICHAEL ANTHONY COLOMBO — No. 19280 — Exp: 09/30/2022 — ELECTRICAL — STATE OF CALIFORNIA

Kimley»Horn Kimley-Horn and Associates, Inc. ©2021
401 B Street, Suite 600, San Diego, California 92101
Phone: 619.234.9411 / www.kimley-horn.com

AS-BUILT
(SIGNATURE) DATE
(PRINTED NAME) LICENSE NO. 85614

INSPECTED AND RECOMMENDED FOR ACCEPTANCE
Public Works Inspector Date

CIP# PK006

SAN MARCOS FIRE DEPARTMENT	VALLECITOS WATER DISTRICT	ENGINEER OF WORK	CITY APPROVED CHANGES	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK
By: JASON NAILON, FIRE MARSHALL Date	By: JAMES H. GUMPEL, P.E. Date	By: MICHAEL A. COLOMBO	No. Description App'd By Date	By: Brian Banzuelo, Associate Civil Engineer	By: Isaac Etchamendy, City Engineer	Description: City of San Marcos Control Station CP-025
Approved Fire Hydrant Flow 1000 *(gpm) Gallons Per Minute	DISTRICT ENGINEER	R.C.E.: 19280 / exp: 09/30/2022		R.C.E.: 83315 exp.: 3/31/2023	R.C.E.: 81294 exp.: 9/30/2023	Location: N. 1,988,054.81 , E. 6,281,531.41
VWD is not responsible for maintenance, repair or replacement of fire hydrants unless specified under separate agreement with the San Marcos fire Department.	R.C.E. NO. C60160 exp: 6/22	Date: 1/18/2022		Date:	Date:	Record From: NV5 LS6310 CP-025
						Elev.: 770.99 [768.69] Datum: NAVD88 (FEET, NGVD 29) (FEET) (US SURVEY FEET) VERTICAL DATUM: NGVD 29

CITY OF SAN MARCOS

ELECTRICAL GENERAL NOTES AND DETAILS FOR: RANCHO CORONADO PARK IMPROVEMENTS

City Drawing No. IP21-00011

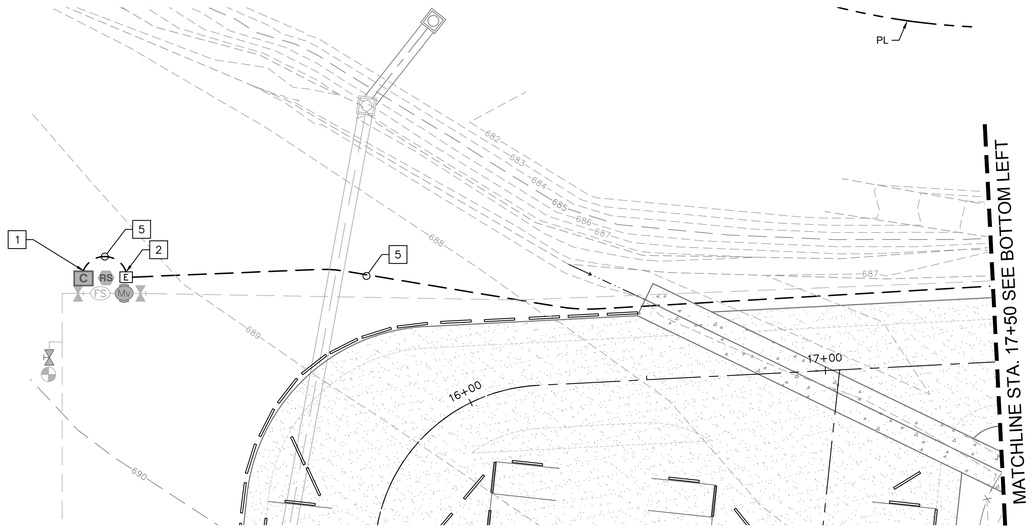
Sheet 18 of 23

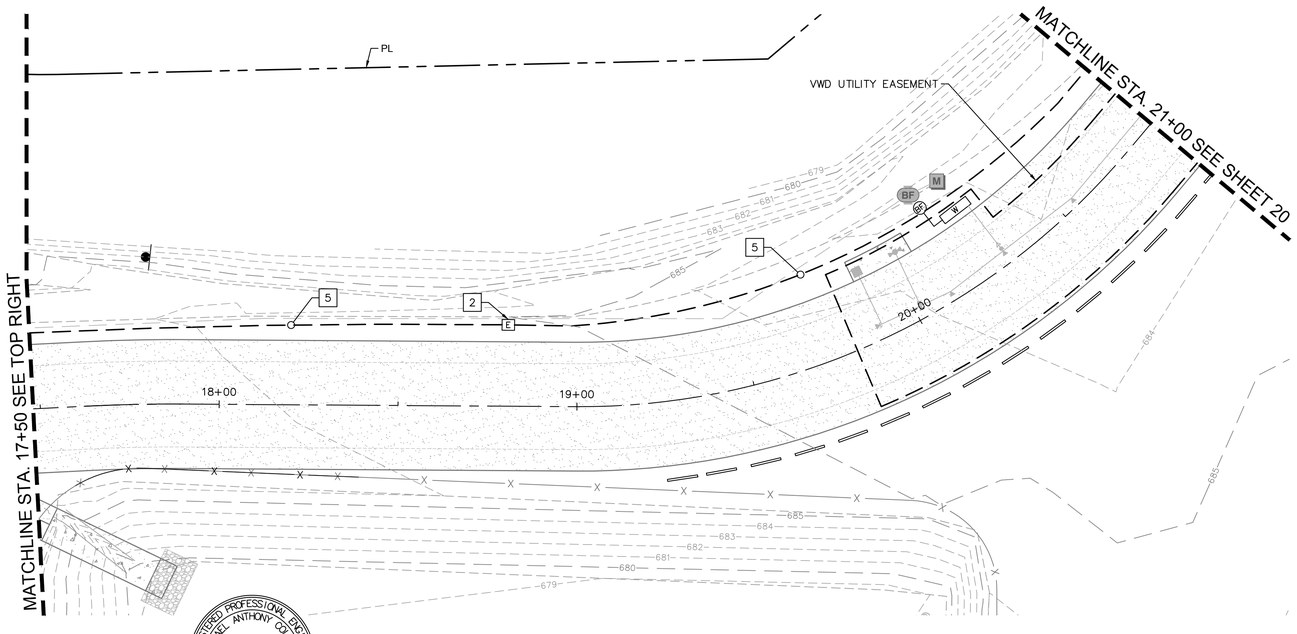
VWD WO#-250092

Drawing name: K:\SND_MUN\095824104 - Rancho Coronado\Design\Plan Sheets\824104-EL.dwg 18 ELECTRICAL GENERAL NOTES AND DETAIL Jan 18, 2022 - 8:52am by: Madeline.David

CONSTRUCTION NOTES

1. CONNECT PROPOSED CONDUIT TO IRRIGATION CONTROLLER. REFER TO IRRIGATION PLANS FOR EXACT LOCATION AND MODEL NUMBER.
2. INSTALL NO. 3-1/2 PULL BOX PER CALTRANS STD PLAN ES-8 (15-3/8" X 10-1/8").
5. INSTALL (2) 2" SCHEDULE-80 PVC CONDUIT WITH (2) #12 AWG CONDUCTORS AND (1) #12 AWG INSULATED BOND PER DETAIL 3 ON SHEET 15. EXTRA SPARE CONDUIT SHALL HAVE MULETAPE PULLROLE.





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STATE OF CALIFORNIA

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Phone: 619.234.9411 / www.kimley-horn.com

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

AS-BUILT	INSPECTED AND RECOMMENDED FOR ACCEPTANCE
(SIGNATURE) DATE	
(PRINTED NAME) LICENSE NO. 85614	Public Works Inspector Date

SAN MARCOS FIRE DEPARTMENT	VALLECITOS WATER DISTRICT	ENGINEER OF WORK
By:	By:	By:
JASON NAILON, FIRE MARSHALL Date	JAMES H. GUMPEL, P.E. Date	MICHAEL A. COLOMBO
Approved Fire Hydrant Flow 1000 *(gpm) Gallons Per Minute	DISTRICT ENGINEER	R.C.E.: 19280 exp: 09/30/2022
VWD is not responsible for maintenance, repair or replacement of fire hydrants unless specified under separate agreement with the San Marcos fire Department.	R.C.E. NO. C60160 exp: 6/22	Date: 1/18/2022

CITY APPROVED CHANGES			
No.	Description	App'd By	Date

RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION
By: Brian Banzuelo, Associate Civil Engineer	By: Isaac Etchamendy, City Engineer
R.C.E.: 83315 exp.: 3/31/2023	R.C.E.: 81294 exp.: 9/30/2023
Date:	Date:

BENCH MARK
Description: City of San Marcos Control Station CP-025
Location: N. 1,988,054.81 , E. 6,281,531.41
Record From: NVS LS6310 CP-025 NAD83(2007) NAD83 (2007) VERTICAL DATUM NGVD 29
Elev.: 770.99' [768.69'] Datum:

CITY OF SAN MARCOS

ELECTRICAL PLAN FOR:

RANCHO CORONADO PARK IMPROVEMENTS

CIP# PK006
City Drawing No.
IP21-00011
Sheet 19 of 23

VWD WO#-250092

Drawing name: K:\SND_MUNI\095824104 - Rancho Coronado\Design\Plan Sheets\824104-EL.dwg 19 ELECTRICAL PLAN Jan 18, 2022 9:14am by: Madeline.Dowd

CONSTRUCTION NOTES

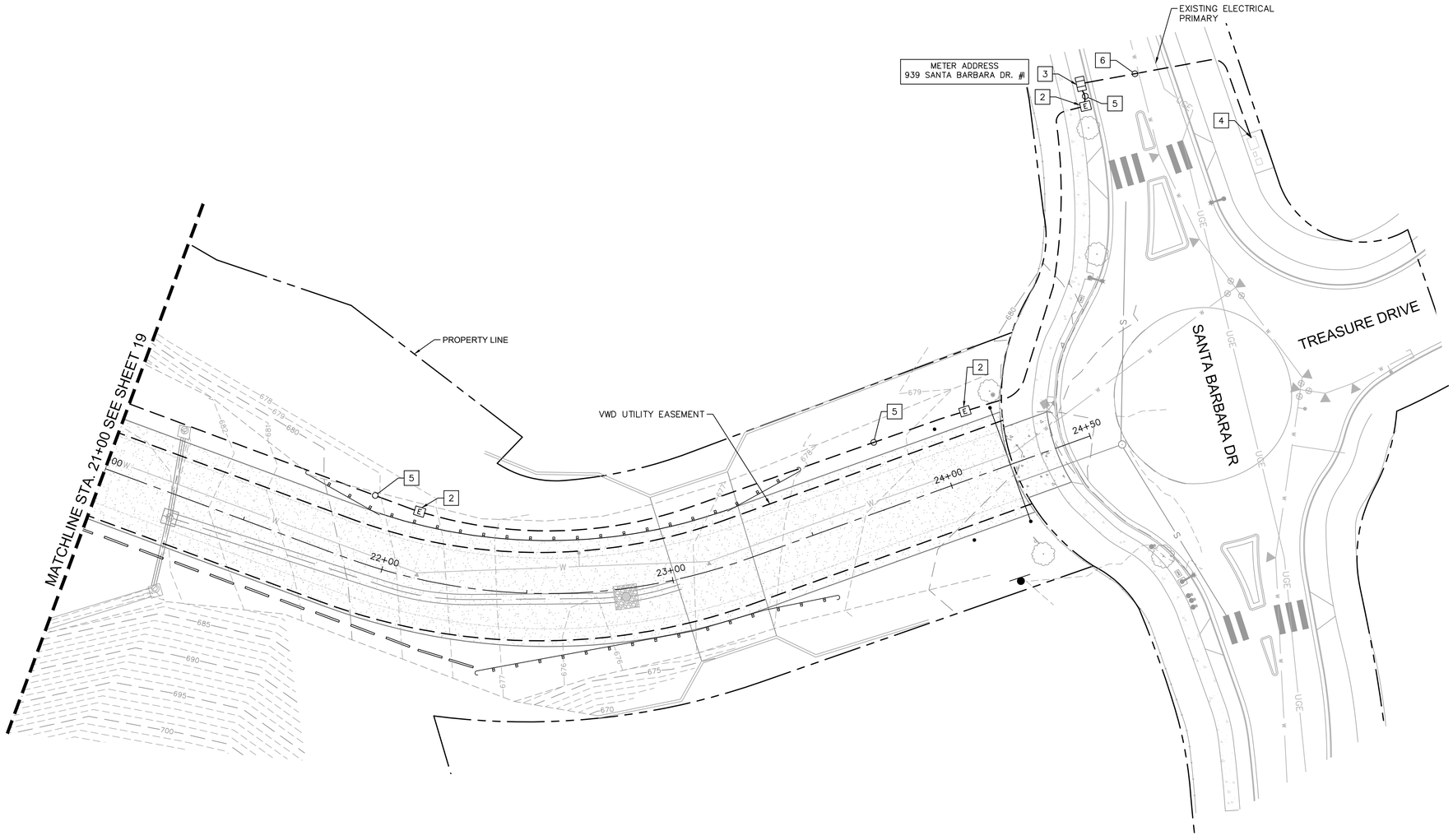
2 INSTALL NO. 3–1/2 PULL BOX PER CALTRANS STD PLAN ES–8 (15–3/8" X 10–1/8").

3 INSTALL 100A SERVICE METER PEDESTAL PER DETAIL 2 ON SHEET 15.

4 ROUTE 3" CONDUIT WITH PULL TAPE AND COORDINATE TIE–IN TO EXISTING 120/240 TRANSFORMER WITH LOCAL ELECTRICAL UTILITY COMPANY SDG&E.

5 INSTALL (2) 2" SCHEDULE–80 PVC CONDUIT WITH (2) #12 AWG CONDUCTORS AND (1) #12 AWG INSULATED BOND PER DETAIL 3 ON SHEET 15. EXTRA SPARE CONDUIT SHALL HAVE MULETAPE PULLROLE.

6 INSTALL (1) 3" SCHEDULE–80 PVC CONDUIT WITH PULL TAPE PER DETAIL 3 ON SHEET 15. SDG&E TO DESIGN AND INSTALL CONDUCTORS.



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REGISTERED PROFESSIONAL ENGINEER — MICHAEL ANTHONY COLOMBO — No. 19280 Exp: 09/30/2022 — ELECTRICAL — STATE OF CALIFORNIA

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AS–BUILT
(SIGNATURE) DATE
(PRINTED NAME) 85614 LICENSE NO.

INSPECTED AND RECOMMENDED FOR ACCEPTANCE
Public Works Inspector Date

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

SAN MARCOS FIRE DEPARTMENT	VALLECITOS WATER DISTRICT	ENGINEER OF WORK	CITY APPROVED CHANGES	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK
By: JASON NAILON, FIRE MARSHALL Date Approved Fire Hydrant Flow 1000 *(gpm) Gallons Per Minute VWD is not responsible for maintenance, repair or replacement of fire hydrants unless specified under separate agreement with the San Marcos fire Department.	By: JAMES H. GUMPEL, P.E. Date DISTRICT ENGINEER R.C.E. NO. C60160 exp: 6/22	By: MICHAEL A. COLOMBO R.C.E.: 19280 exp: 09/30/2022 Date: 1/18/2022	No. Description App'd By Date	By: Brian Banzuelo, Associate Civil Engineer R.C.E.: 83315 exp.: 3/31/2023 Date:	By: Isaac Etchamendy, City Engineer R.C.E.: 81294 exp.: 9/30/2023 Date:	Description: City of San Marcos Control Station CP–025 Location: N. 1,988,054.81 , E. 6,281,531.41 Record From: NVS LS6310 CP–025 Elev.: 770.99' [768.69'] Datum: NAD83(1996) NGVD 29 (VERT. USING VERTICAL DATUM NGVD 29)

CITY OF SAN MARCOS
ELECTRICAL PLAN FOR:
RANCHO CORONADO PARK IMPROVEMENTS

CIP# PK006
City Drawing No.
IP21-00011
Sheet 20 of 23

VWD WO#–250092

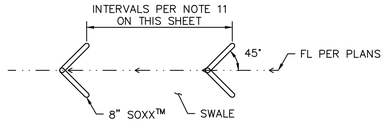
Drawing name: K:\SND_MUNI\095824104 – Rancho Coronado\Design\Plan Sheets\824104–EL.dwg 20 ELECTRICAL PLAN Jan 18, 2022 8:52am by: Madeline.David

EROSION AND SEDIMENT CONTROL NOTES

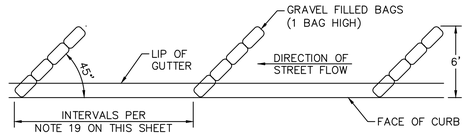
1. IN CASE EMERGENCY WORK IS REQUIRED, CONTACT CITY STORMWATER COMPLIANCE INSPECTOR AT 619–336–4380.
2. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES. ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY EROSION CONTROL DEVICES WHEN RAIN IS IMMINENT.
3. EROSION CONTROL DEVICES SHOWN ON PLANS SHALL NOT BE MOVED OR MODIFIED WITHOUT APPROVAL OF THE ENGINEERING INSPECTOR OR CITY STORM WATER COMPLIANCE INSPECTOR. THE CONTRACTOR SHALL RESTORE ALL EROSION CONTROL DEVICES TO WORKING ORDER DURING AND AFTER EACH RUN–OFF PRODUCING RAINFALL.
4. EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED AND MAINTAINED TO THE SATISFACTION OF THE CITY ENGINEER OR CITY STORM WATER COMPLIANCE INSPECTOR. MAINTENANCE SHALL INCLUDE REMOVAL OF SILT FROM BARRIERS AND SEDIMENTATION DEVICES, SEEDING OR MULCHING OF DAMAGED STABILIZED AREAS AND REPLACEMENT OR REPAIR OF WORN OR DAMAGED GEOTEXTILE FABRIC.
5. ALL EROSION CONTROL DEVICES PROVIDED PER THE APPROVED GRADING PLAN SHALL BE INCORPORATED HEREON. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL MEASURES AS MAY BE REQUIRED BY THE ENGINEERING CONSTRUCTION INSPECTOR OR CITY STORM WATER COMPLIANCE INSPECTOR.
6. ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THERE IS A FIFTY PERCENT (50%) CHANCE OF RAIN WITHIN A FORTY–EIGHT (48) HOUR PERIOD. SILT AND DEBRIS SHALL BE REMOVED AFTER EACH RAINFALL.
7. DURING THE RAINY SEASON THE AMOUNT OF EXPOSED SOIL ALLOWED AT ONE TIME SHALL NOT EXCEED THAT WHICH CAN BE ADEQUATELY PROTECTED IN THE EVENT OF A RAINSTORM. ADDITIONAL SUPPLIES NEEDED FOR BMP MEASURES SHALL BE RETAINED ON THE JOB SITE IN A MANNER THAT ALLOWS FULL DEPLOYMENT AND COMPLETE INSTALLATION IN FORTY EIGHT (48) HOURS OR LESS OF A FORECASTED RAIN.
8. ALL BARE SLOPES AND DISTURBED AREAS SHALL BE PLANTED AS EACH STAGE OF GRADING IS COMPLETE. SUITABLE MEASURES TO PREVENT SLOPE EROSION, INCLUDING, BUT NOT LIMITED TO, RAPID GROWING VEGETATION SUFFICIENT TO STABILIZE THE SOILS SHOULD BE INSTALLED ON ALL AREAS, AND/OR SUCH AREAS SHOULD BE MULCHED, WHILE THE PERMANENT VEGETATION COVER MATURES ENOUGH TO PROVIDE STABILITY.
9. ANY EXPOSED SOIL, INCLUDING SOIL STOCKPILES, THAT WILL NOT BE DISTURBED FOR TEN (10) DAYS OR MORE SHALL BE FULLY PROTECTED FROM EROSION UNTIL ADEQUATE LONG–TERM PROTECTIONS ARE INSTALLED. ALL EROSION CONTROL MEASURED SHALL REMAIN INSTALLED AND MAINTAINED DURING ANY INACTIVE PERIOD.
10. ANY SLOPES WITH DISTURBED SOILS OR DENUDED OF VEGETATION MUST BE STABILIZED SO AS TO INHIBIT EROSION BY WIND AND WATER.
11. PROVIDE VELOCITY CHECK DAMS IN ALL UNPAVED GRADED CHANNELS AND ALONG THE GUTTER OF PAVED STREET AREAS. VELOCITY CHECK DAMS MAY BE CONSTRUCTED OF GRAVEL BAGS, TIMBER, OR OTHER MATERIAL APPROVED BY THE CITY ENGINEER. VELOCITY CHECK DAMS MAY ALSO SERVE AS SEDIMENT TRAPS. CHECK DAMS WILL BE INSTALLED PER THE FOLLOWING:

GRADE OF THE CHANNEL STREET	
LESS THAN 3%	100 FEET
3% TO 6%	50 FEET
OVER 6%	25 FEET

12. PROVIDE GRAVEL BAG, SILT BASIN, OR TRAP OR OTHER APPROVED DEVICE BY EVERY STORM DRAIN INLET TO PREVENT SEDIMENT FROM ENTERING THE STORM DRAIN SYSTEM. CHECK DAMS SHALL BE INSTALLED IN THE STREET GUTTER UPSTREAM OF CURB INLETS IN ACCORDANCE WITH THE SPACING PROVIDED ABOVE, AT MINIMUM.
13. GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
14. ALL GRAVEL BAGS SHALL BE BURLAP TYPE WITH 0.5 TO 1 INCH CRUSHED ROCK.
15. NO AREA BEING DISTURBED SHALL EXCEED SEVENTEEN (17) ACRES AT ANY GIVEN TIME WITHOUT DEMONSTRATING TO THE CITY ENGINEER'S SATISFACTION THAT ADEQUATE EROSION AND SEDIMENT CONTROL CAN BE MAINTAINED. ANY DISTURBED AREA WITH NO SOIL DISTURBING ACTIVITIES FOR TEN (10) DAYS MUST BE FULLY PROTECTED FROM EROSION. UNTIL ADEQUATE LONG–TERM PROTECTIONS ARE INSTALLED, THE DISTURBED AREA SHALL BE INCLUDED WHEN CALCULATING THE ACTIVE DISTURBANCE AREA. ALL EROSION CONTROL MEASURES SHALL REMAIN INSTALLED AND MAINTAINED DURING ANY INACTIVE PERIOD.
16. CONSTRUCTION DEBRIS AND SEDIMENT ON THE STREET AND GUTTER SHALL BE SWEPT OR VACUUMED AND DISPOSED OF PROPERLY AT CLOSE OF BUSINESS EACH DAY. FREQUENCY SHALL BE INCREASED IF DEBRIS AND SEDIMENT ARE NOTICEABLE WITHIN THE TRAVELED WAY.
17. TRASH AND CONSTRUCTION RELATED SOLID WASTES SHALL BE DEPOSITED INTO A COVERED RECEPTACLE OR COVERED AND CONTAINED TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND.
18. CONSTRUCTION MATERIALS SHALL BE STORED IN STAGING AREAS ON–SITE UNTIL NEEDED FOR INSTALLATION. WASTE WILL EITHER BE PLACED IN DUMPSTERS OR IN WASTE MANAGEMENT AREAS. ALL WASTE SHALL BE TRANSPORTED OFF–SITE IN A TIMELY MANNER TO APPROVED WASTE DISPOSAL AREAS (DUMPS). STORAGE, HANDLING AND TRANSPORTATION OF WASTE SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL LAWS..
19. CONSTRUCTION MATERIALS SHALL BE STORED IN DESIGNATED AREA WITH APPROPRIATE CONTAINMENT MEASURES. WASTE PILES THAT ARE NOT IN USE AND INACTIVE STOCKPILES SHALL BE PROTECTED. THE CONTRACTOR SHALL STORE THE MATERIALS AS TO MINIMIZE THE RISK OF STORM WATER POLLUTION, GROUND WATER POLLUTION, SOIL CONTAMINATION, AND INJURY TO WORKERS AND VISITORS.
20. EQUIPMENT TO BE STORED, FUELED AND MAINTAINED ON SITE SHALL BE KEPT AWAY FROM ANY DRAINAGE COURSES. CONTRACTOR SHALL USE A DRAINAGE PAN OR DROP CLOTH TO CATCH ANY LEAKS OR SPILLS AT A MINIMUM.
21. MATERIAL OR DEBRIS RESULTING FROM CONSTRUCTION ACTIVITIES (I.E. SAW CUTTING, CONCRETE/ASPHALT GRINDING, ETC.) SHALL BE RECLAIMED AND DISPOSED OF APPROPRIATELY.
22. THE TOPS OF ALL SLOPES SHALL BE DIKED OR TRENCHED TO PREVENT WATER FROM FLOWING OVER THE CREST SLOPES.
23. ALL EXCESS CUT MUST BE TRANSPORTED OFFSITE TO AN APPROPRIATE DISPOSAL AREA.
24. ALL CONSTRUCTION WORK SHALL BE IN COMPLIANCE WITH REGULATIONS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORM WATER GENERAL PERMIT.
25. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 21 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. TRAPPED SEDIMENT AND THE DISTRUBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.
26. SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, TEMPORARY SILT CHECK DAMS, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND–DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTRUBANCE TAKES PLACE.



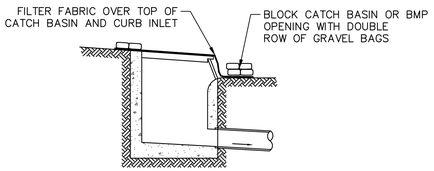
A FILTREXX® COMPOST FILTER SOXX™ (OR APPROVED EQUAL) CHECK DAM DETAIL
NOT TO SCALE



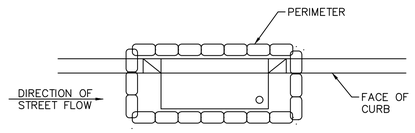
PLAN VIEW

CONTRACTOR MAY PROVIDE A DELINEATOR OR TRAFFIC CONE NEAR THE CHECK DAMS WITHIN THE ROADWAY TO PREVENT DAMAGE FROM VEHICLES.

B GRAVEL BAG VELOCITY CHECK DAMS - STREET AREAS
NOT TO SCALE



PROFILE - CURB INLET OR BIOFILTRATION

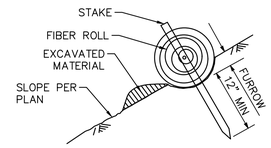


PLAN VIEW - CURB INLET OR BIOFILTRATION

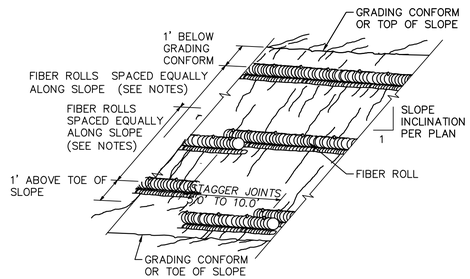
C INLET PROTECTION
NOT TO SCALE

STOCKPILES ARE REQUIRED TO BE COVERED FOR RAIN EVENTS AND AT ALL TIMES IF THE STOCKPILE IS INACTIVE (NOT DISTURBED FOR A PERIOD OF 14 DAYS OR MORE)

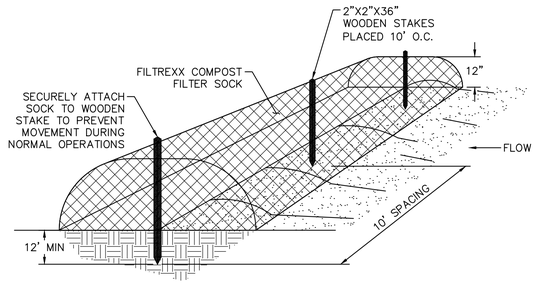
D TYPICAL STOCKPILE PROTECTION
NOT TO SCALE



SECTION



PERSPECTIVE



NOTES:
1. FIBER ROLL SPACING VARIES DEPENDING UPON SLOPE INCLINATION.
2. INSTALLATIONS SHOWN IN THE PERSPECTIVE VIEW ARE FOR SLOPE INCLINATION OF 10:1 AND STEEPER.
3. GRAVEL BAGS CAN BE USED TO HOLD DOWN FIBER ROLLS ON HARDSCAPE SURFACES.
4. INSTALL FIBER ROLL ALONG A LEVEL CONTOUR.

E TEMPORARY FIBER ROLL / FILTREXX COMPOST FILTER SOCK PERIMETER PROTECTION
NOT TO SCALE

REGISTERED PROFESSIONAL ENGINEER
MARK N. ARAUJO
NO. 85614
CIVIL
STATE OF CALIFORNIA

Kimley»Horn Kimley-Horn and Associates, Inc. ©2021
401 B Street, Suite 600, San Diego, California 92101
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AS–BUILT

(SIGNATURE) DATE

(PRINTED NAME) 85614 LICENSE NO.

INSPECTED AND RECOMMENDED FOR ACCEPTANCE

Public Works Inspector Date

CIP# PK006

SAN MARCOS FIRE DEPARTMENT	VALLECITOS WATER DISTRICT	ENGINEER OF WORK	CITY APPROVED CHANGES	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK
By: JASON NAILON, FIRE MARSHALL Date	By: JAMES H. GUMPEL, P.E. Date	By: MARK N. ARAUJO	No. Description App'd By Date	By: Brian Banzuelo, Associate Civil Engineer	By: Isaac Etchamendy, City Engineer	Description: City of San Marcos Control Station CP–025
Approved Fire Hydrant Flow 1000 *(gpm) Gallons Per Minute	DISTRICT ENGINEER	R.C.E.: 85614 exp: 12/31/2022		R.C.E.: 83315 exp.: 3/31/2023	R.C.E.: 81294 exp.: 9/30/2023	Location: N. 1,988,054.81 , E. 6,281,531.41
* VWD is not responsible for maintenance, repair or replacement of fire hydrants unless specified under separate agreement with the San Marcos fire Department.	R.C.E. NO. C60160 exp: 6/22	Date: 1/18/2022		Date:	Date:	Record From: NV5 LS6310 CP–025 Datum: WGS84 (York, MEAN SEA LEVEL) Elev.: 770.99' [768.69'] (York, USING VERTICAL DATUM NGVD 29)

WATER POLLUTION CONTROL PLAN FOR:

CITY OF SAN MARCOS

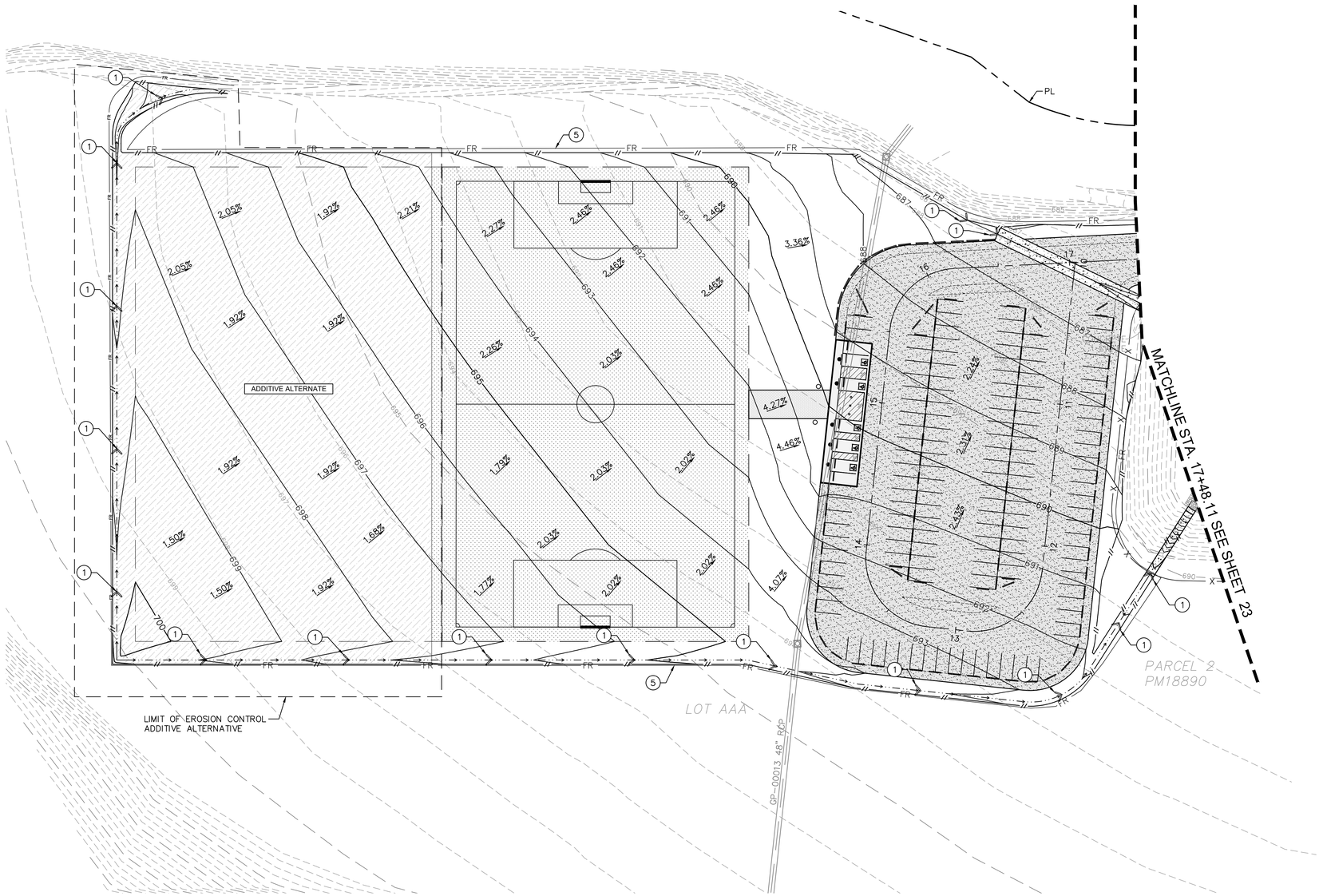
RANCHO CORONADO PARK IMPROVEMENTS

City Drawing No. IP21-00011

Sheet 21 of 23

VWD WO#–250092

Drawing name: K:\SND_M\NV\095824104 – Rancho Coronado\Design\Plan Sheets\824104–SWI.dwg SWI Jan 18, 2022 8:52am by: Madeline David



LEGEND

- FR — FIBER ROLL / FILTREXX COMPOST FILTER SOX
- GRAVEL BAG VELOCITY CHECK DAM
- INLET PROTECTION
- FILTREXX COMPOST FILTER SOX
- ADDITIVE ALTERNATE

WATER POLLUTION CONTROL NOTES

(1) FURNISH AND INSTALL FILTREXX COMPOST FILTER SOX (OR APPROVED EQUAL) PER DETAIL A ON SHEET 20.

(5) FURNISH AND INSTALL FIBER ROLL PER DETAIL E ON SHEET 20.

NORTH

GRAPHIC SCALE IN FEET
0 20 40 80

REGISTERED PROFESSIONAL ENGINEER
MARK N. ARAUJO
NO. 85614
CIVIL
STATE OF CALIFORNIA

Kimley»Horn Kimley-Horn and Associates, Inc. ©2021
401 B Street, Suite 600, San Diego, California 92101
Phone: 619.234.9411 / www.kimley-horn.com

AS-BUILT

(SIGNATURE) DATE

(PRINTED NAME) 85614 LICENSE NO.

INSPECTED AND RECOMMENDED FOR ACCEPTANCE

Public Works Inspector Date

SAN MARCOS FIRE DEPARTMENT	VALLECITOS WATER DISTRICT	ENGINEER OF WORK	CITY APPROVED CHANGES	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK
By: JASON NAILON, FIRE MARSHALL Date	By: JAMES H. GUMPEL, P.E. Date	By: MARK N. ARAUJO	No. Description App'd By Date	By: Brian Banzuelo, Associate Civil Engineer	By: Isaac Etchamendy, City Engineer	Description: City of San Marcos Control Station CP-025
Approved Fire Hydrant Flow 1000 *(gpm) Gallons Per Minute	DISTRICT ENGINEER	R.C.E.: 85614 exp: 12/31/2022		R.C.E.: 83315 exp.: 3/31/2023	R.C.E.: 81294 exp.: 9/30/2023	Location: N. 1,988,054.81 , E. 6,281,531.41
VWD is not responsible for maintenance, repair or replacement of fire hydrants unless specified under separate agreement with the San Marcos fire Department.	R.C.E. NO. C60160 exp: 6/22	Date: 1/18/2022		Date:	Date:	Record From: NV5 TS6310 CP-025 Elev.: 770.99' [768.69'] Datum: NAVD88 (FEMA, NGVD 29) (CONV. USING VERTCON, DATUM NGVD 29)

CITY OF SAN MARCOS

WATER POLLUTION CONTROL PLAN FOR:

RANCHO CORONADO PARK IMPROVEMENTS

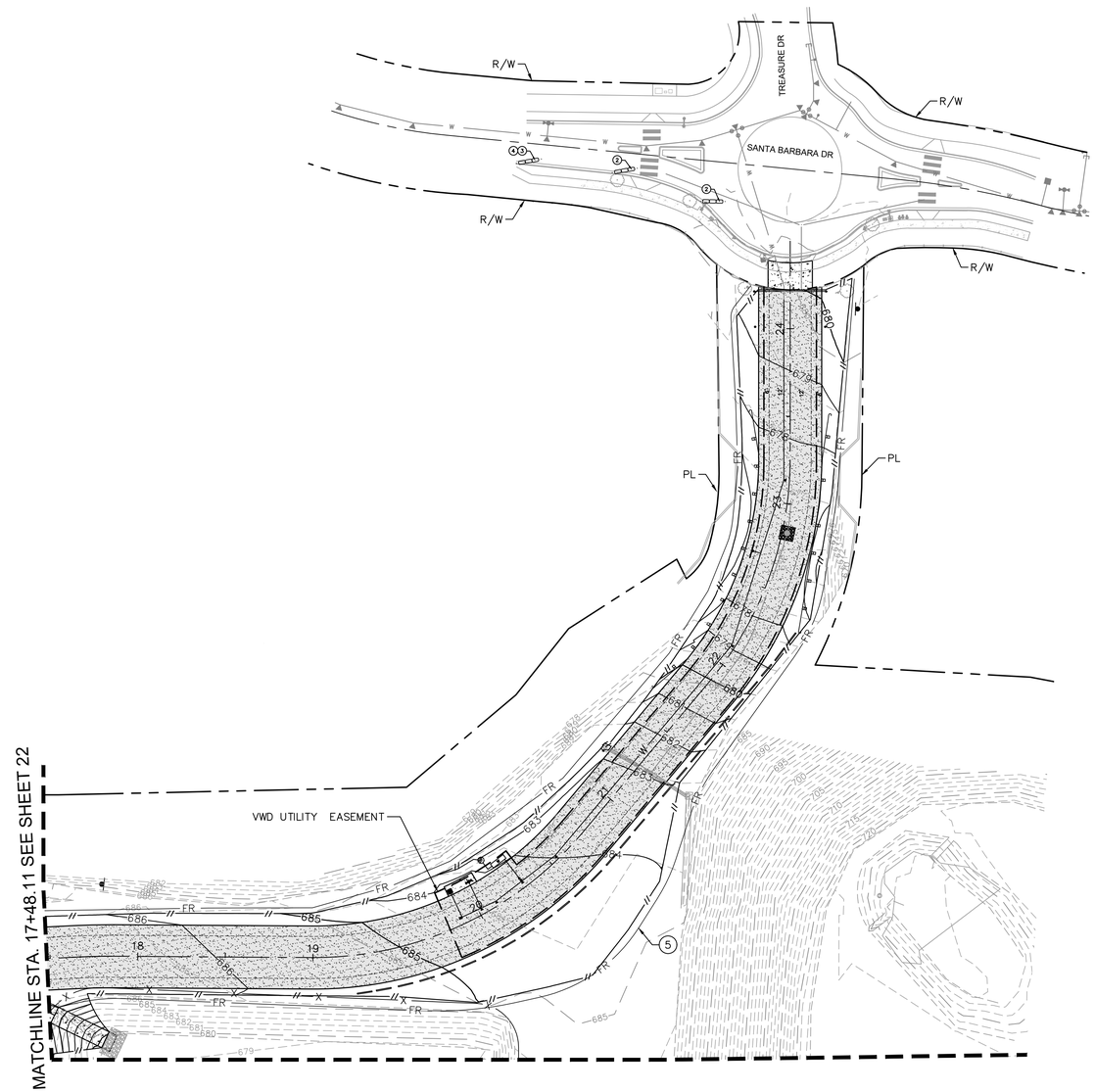
CIP# PK006

City Drawing No. IP21-00011

Sheet 22 of 23

VWD WO#-250092

Drawing name: K:\SND_MEM\109524104 - Rancho Coronado\Design\Plan Sheets\524104-SW1.dwg SW2 Jan 18, 2022 8:52am by: Madeline David



LEGEND

— FR — FIBER ROLL / FILTREXX COMPOST FILTER SOX

GRAVEL BAG VELOCITY CHECK DAM

INLET PROTECTION

FILTREXX COMPOST FILTER SOX

WATER POLLUTION CONTROL NOTES

(2) FURNISH AND INSTALL GRAVEL BAG VELOCITY CHECK DAM PER DETAIL B ON SHEET 20.

(3) CONTINUE INSTALLATION OF CHECK DAMS, TO BE LOCATED ALONG EXISTING ROADWAY TO THE NEAREST DOWNSTREAM INLET BEYOND THE PROJECT LIMITS.

(4) FURNISH AND INSTALL INLET PROTECTION AT THE NEAREST DOWNSTREAM INLET PER DETAIL C ON SHEET 20.

(5) FURNISH AND INSTALL FIBER ROLL PER DETAIL E ON SHEET 20.

NORTH

GRAPHIC SCALE IN FEET
0 20 40 80

REGISTERED PROFESSIONAL ENGINEER
MARK N. ARAUJO
NO. 85614
CIVIL
STATE OF CALIFORNIA

Kimley»Horn Kimley-Horn and Associates, Inc. ©2021
401 B Street, Suite 600, San Diego, California 92101
Phone: 619.234.9411 / www.kimley-horn.com

AS-BUILT

(SIGNATURE) DATE

(PRINTED NAME) 85614 LICENSE NO.

INSPECTED AND RECOMMENDED FOR ACCEPTANCE

Public Works Inspector Date

SAN MARCOS FIRE DEPARTMENT	VALLECITOS WATER DISTRICT	ENGINEER OF WORK
By: JASON NAILON, FIRE MARSHALL Date	By: JAMES H. GUMPEL, P.E. Date	By: MARK N. ARAUJO
Approved Fire Hydrant Flow 1000 *(gpm) Gallons Per Minute	DISTRICT ENGINEER	R.C.E.: 85614 exp: 12/31/2022
VWD is not responsible for maintenance, repair or replacement of fire hydrants unless specified under separate agreement with the San Marcos fire Department	R.C.E. NO. C60160 exp: 6/22	Date: 1/18/2022

CITY APPROVED CHANGES			
No.	Description	App'd By	Date

RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION
By: Brian Banzuelo, Associate Civil Engineer	By: Isaac Etchamendy, City Engineer
R.C.E.: 83315 exp.: 3/31/2023	R.C.E.: 81294 exp.: 9/30/2023
Date:	Date:

BENCH MARK

Description: City of San Marcos Control Station CP-025

Location: N. 1,988,054.81 , E. 6,281,531.41

Record From: NVS LS6310 CP-025

Elev.: 770.99' [768.69'] Datum: NAVD88 [NGVD 1929 CONVERSION: VERTICAL DATUM ADJUSTMENT]

WATER POLLUTION CONTROL PLAN FOR:

CITY OF SAN MARCOS

RANCHO CORONADO PARK IMPROVEMENTS

CIP# PK006

City Drawing No. IP21-00011

Sheet 23 of 23

VWD WO#-250092

Drawing name: K:\SND_MUNI\095824104 - Rancho Coronado\Design\Plan Sheets\824104-SM1.dwg SM3 Jan 18, 2022 8:52am by: Madeline David