OTAY WATER DISTRICT - TRANSMITTAL

2554 Sweetwater Springs Blvd
Spring Valley, CA 91978

To	Hale Engineering 7910 Convoy Ct. San Diego, CA 92111	**Date**	1/10/2022
		Subject	Signed Mylars
Attention	Jill Gravely	**Project Name**	OR V8 W - Main St. East PRS
Courier Via	Customer Pick-up	**OWD Project No.**	D1044-090422

Transmittal Type: Civil - Approved Plan to Customer

The following items are enclosed

☑ Enclosed	☐ Requested	☐ Sent Separately
☐ Approved Plans	☐ Engineer's Estimate	☐ Signed Construction Change
☐ Bond Docs	☐ Plan Check	☑ Signed Mylars
☐ Cost Estimate	☐ Report	☐ Specification
☐ Easement Docs		
☐ Other		

QTY	DESCRIPTION
1	Signed Myalrs for OR V8 W- Main St. East PRS

⊕ Add new row

Submitted For

☑ For Your Action	☐ For Your Approval	☑ For Your Files
☐ For Your Information	☐ Per Your Request	☐ For Your Review

Instructions

PLEASE SUBMIT:
1. TWO SETS OF 24X36 BOND PRINTS
2. ONE CD OR USB DRIVE OF THE FULL SUBMITTAL

- TIFF/PDF FORMAT, *IMAGES MUST BE IN NUMERICAL ORDER, MUST BE ABLE TO OPEN AS ONE FILE, AS WELL AS FACING RIGHT SIDE UP*
- DWG FORMAT, AS PER WATER AGENCY STANDARDS WWW.SDWAS.ORG
- LINE WORK FOR PARCEL/FINAL MAPS ASSOCIATED WITH THE IMPROVEMENTS

DESIGN GUIDELINES 1.0 GENERAL
- o 1.2 AUTOCAD GUIDELINES
- o EXHIBIT 1.2-A: AUTOCAD PLOT STYLE (MONO & COLOR - FULL.CTB) (04-15-2004)
- o EXHIBIT 1.2-B: LINETYPES (04-15-2004)

Additional Instructions

Sincerely,

Raisa Arias
Permit Technician
619-670-2701
Raisa.Arias@otaywater.gov

Hale Engineering to Otay Water District

MYLARS FOR:

D1044-090418 ✓

Otay Ranch Village 8 West DEV-19-011

D1044-090422 ✓

Dev-19-013

Jill Gravely Project Manager

jgravely@haleengineering.com

858-715-1420

OTAY WATER DISTRICT
RECEIVED
2017 JAN -6 PM 12:54

AKC

IMPROVEMENT PLANS FOR:
OTAY RANCH-VILLAGE 8 WEST
MAIN STREET EAST
980/711 ZONE AND 815/680 ZONE
PRESSURE REDUCING STATIONS

GENERAL NOTES

1. ALL UNDERGROUND UTILITIES AND LATERALS TO BE INSTALLED BEFORE CONSTRUCTION OF CURB, SIDEWALK, OR SURFACING OF STREETS.
2. SIDEWALK IS TO BE SIX INCHES THICK THROUGH ALL DRIVEWAYS.
3. ALL WORK SHALL BE COMPLETED PER THESE PLANS AND APPROVED REVISIONS. ALL CHANGES OR REVISIONS THERETO, MUST BE APPROVED BY THE CITY ENGINEER, IN WRITING, PRIOR TO ANY REQUEST FOR INSPECTION.
4. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITY PIPES AND STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS, TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN HEREON, HOWEVER, THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT ANY EXISTING UTILITIES OR STRUCTURES LOCATED AT THE WORK SITE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE UNDERGROUND SERVICE ALERT (PHONE 1-800-422-4133) TWO (2) WORKING DAYS IN ADVANCE OF ANY EXCAVATION OF COMMENCEMENT OF WORK. FOR ANY QUESTIONS REGARDING THE MARK OUT OF UNDERGROUND UTILITIES, THE CONTRACTOR SHOULD CONTACT THE RESPECTIVE UTILITY COMPANY:

A.	STREET LIGHT OR SIGNAL LIGHT CONDUIT	
	CITY OF CHULA VISTA	(619) 397-6166
B.	SEWER OR STORM DRAIN CITY OF CHULA VISTA	
	VERIFICATION	(619) 397-6000
	NOTIFICATION	(619) 397-6000
C.	GAS AND ELECTRIC	
	SAN DIEGO GAS & ELECTRIC	(619) 230-7800
D.	WATER	
	OTAY WATER DISTRICT	(619) 670-2222
	SAN DIEGO COUNTY WATER AUTHORITY	(858) 522-6900
E.	TELEPHONE	
	PACIFIC BELL	(619) 266-4683
F.	TELEVISION	
	COX CABLE OF SAN DIEGO	(619) 263-9251
	ULTRONICS	(619) 476-0177

5. CITY OF CHULA VISTA INSPECTION NOTICE:
   A. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM THE CITY ENGINEER 2 WORKING DAYS IN ADVANCE OF COMMENCEMENT OF WORK. PHONE: (619)397-6128.
   B. THE CONTRACTOR SHALL GIVE 24 HOURS NOTICE (ONE WORKING NOTICE ON ALL CALLS FOR INSPECTION, PHONE: (619)397-6128.
   C. ANY WORK PERFORMED WITHOUT BENEFIT OF INSPECTION SHALL BE SUBJECT TO REJECTION AND REMOVAL AT CONTRACTOR'S EXPENSE.
   D. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE LOCATION AND ELEVATION OF EXISTING UNDERGROUND WORK PRIOR TO THE EXCAVATION FOR INSTALLATION OF NEW UNDERGROUND WORK.
6. NEITHER THE OWNER NOR THE ENGINEER OF WORK WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS DURING CONSTRUCTION OPERATIONS.
7. LOCATION AND TYPE OF STREET TREES FOR EACH LOT TO BE DETERMINED BY THE GENERAL SERVICES AND PUBLIC WORKS OPERATIONS DEPARTMENTS - STREET OPERATIONS.PLOT
8. MAXIMUM DISTANCE BETWEEN PULL BOXES IS 190 FEET.
9. ALL UTILITIES SHALL HAVE A MINIMUM OF 90% RELATIVE COMPACTION IN ALL TRENCH BACKFILL.
10. AS-BUILT DRAWINGS: A SET OF BLUELINE PRINTS AND A SET OF SPECIFICATIONS SHALL BE KEPT AT ALL TIMES ON WHICH ALL CHANGES OR VARIATIONS IN THE WORK, INCLUDING ALL UTILITIES, ARE TO BE RECORDED.
11. CONTRACTOR SHALL FURNISH TO THE ENGINEER OF WORK AS-BUILT PLANS FOR ALL NEW IMPROVEMENTS SHOWN ON THESE PLANS FOR SUBMITTAL TO THE CITY ENGINEER FOR APPROVAL.
12. THE OWNER MUST OBTAIN AN EXCAVATION PERMIT FROM THE DIVISION OF OCCUPATIONAL SAFETY AND HEALTH (D.O.S.H.) PRIOR TO THE START OF CONSTRUCTION.
13. ALL STORM DRAIN PIPE SHALL BE 1500 D-LOAD UNLESS OTHERWISE SHOWN ON THESE PLANS.
14. DUST GENERATED BY CONSTRUCTION ACTIVITIES SHALL COMPLY WITH THE LOCAL DUST CONTROL AND UNIFORM BUILDING CODE (UBC) REQUIREMENTS WHICH INCLUDE DUST CONTROL MEASURES FOR CONSTRUCTION SITES. DUST REDUCING MEASURES SHALL INCLUDE REGULAR WATERING OF GRADED SURFACES AND RESTRICTION OF ALL CONSTRUCTION VEHICLES AND EQUIPMENT TO TRAVEL ALONG ESTABLISHED AND REGULARLY WATERED ROADWAYS.

"DIG ALERT NOTICE"

SECTION 4216/4217 OF THE GOVERNMENT CODE REQUIRES THAT DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT TOLL FREE 1-800-422-4133 AT LEAST TWO WORKING DAYS BEFORE YOU DIG.

UNDERGROUND SERVICE ALERT

CALL: TOLL FREE
1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

"CAUTION": REMEMBER THAT THE USA CENTER NOTIFIES ONLY THOSE UTILITIES BELONGING TO THE CENTER. THERE COULD BE OTHER UTILITIES PRESENT AT THE WORK SITE. THE CENTER WILL INFORM YOU OF WHOM THEY WILL NOTIFY.

SPECIAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE TO INSURE THAT ALL SLOPES, STREETS, UTILITIES, AND STORM DRAINS ARE BUILT IN ACCORDANCE WITH THESE PLANS. IF THERE IS ANY QUESTION REGARDING THESE PLANS OR FIELD STAKES, THE CONTRACTOR SHALL REQUEST AN INTERPRETATION BEFORE DOING ANY WORK BY CALLING THE ENGINEER OF WORK AT (858)558- 4500 AND THE CITY INSPECTOR. CONTRACTOR SHALL ALSO TAKE THE NECESSARY STEPS TO PROTECT THE PROJECT AND ADJACENT PROPERTY FROM ANY EROSION AND SILTATION THAT RESULT FROM CONTRACTOR'S OPERATIONS BY APPROPRIATE MEANS (SAND BAGS, HAY BALES, TEMPORARY DESILTING BASINS, SILT FENCES, DIKES, SHORING, ETC.) UNTIL SUCH TIME THAT THE TOTAL PROJECT IS COMPLETED AND ACCEPTED FOR MAINTENANCE BY WHATEVER OWNER, AGENCY OR ASSOCIATION IS TO BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE.
2. CONTRACTOR WILL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING UNDERGROUND UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY BECAUSE OF ACTUAL LOCATION OF EXISTING FACILITIES.
3. LOCATION AND ELEVATIONS OF IMPROVEMENTS TO BE MET (OR AVOIDED) BY WORK TO BE DONE SHALL BE CONFIRMED BY FIELD MEASUREMENTS PRIOR TO CONSTRUCTION OF NEW WORK. CONTRACTOR SHALL REPORT TO THE ENGINEER OR CITY INSPECTOR ANY DISCREPANCIES BETWEEN FIELD MEASUREMENTS AND THE PLANS.
4. BEFORE EXCAVATING FOR THIS CONTRACT, THE CONTRACTOR SHALL FIELD VERIFY LOCATION OF UNDERGROUND UTILITIES. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO OTHER EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS.
5. CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER EXISTING LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
6. CONTRACTOR AGREES: TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER, THE ENGINEER AND THE CITY OF CHULA VISTA HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING THEREFROM LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER OR THE CITY OF CHULA VISTA.
7. CONTRACTOR IS RESPONSIBLE FOR HAVING TRAFFIC CONTROL PLANS APPROVED BY THE CITY ENGINEER PRIOR TO COMMENCING ANY WORK IN THE PUBLIC RIGHT OF WAY.
8. CONTRACTOR SHALL REPAIR ALL DESTROYED OR DAMAGED EXISTING SURFACE IMPROVEMENTS WITH IMPROVEMENTS EQUAL OR SUPERIOR.
9. ALL DEMOLISHED MATERIAL SHALL BE REMOVED FROM THE JOB SITE TO AN APPROVED DISPOSAL SITE.
10. THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL PROPOSED CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS AND THE CITY ENGINEER.
11. STOP SIGN AND STREET NAME SIGN POLES SHALL BE CONSTRUCTED CONCURRENT WITH SIDEWALK CONSTRUCTION IN ACCORDANCE WITH GVDS-TR05 & TR06A

PUBLIC IMPROVEMENT AND GRADING PLAN MONUMENTATION NOTE

THE DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LAND SURVEYOR MUST FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS PRIOR TO ANY EARTHWORK OR PROPOSED IMPROVEMENTS; AND IF DESTROYED, A LAND SURVEYOR, OR A CIVIL ENGINEER AUTHORIZED TO PRACTICE LAND SURVEYING HALL REPLACE SUCH MONUMENTS WITH THE APPROPRIATE MONUMENTS. A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE SHALL BE FILED AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT. IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE CITY OF CHULA VISTA FIELD SURVEY SECTION MUST BE NOTIFIED, IN WRITING, AT LEAST THREE (3) DAYS PRIOR TO THE CONSTRUCTION. THE DEVELOPER/CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPLACING ANY VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.

PRECONSTRUCTION CONFERENCE

THE CONTRACTOR SHALL NOT BEGIN ANY WORK ON THIS PROJECT UNTIL A PRECONSTRUCTION CONFERENCE IS HELD WITH THE ENGINEER OF WORK, THE SOILS ENGINEER, DEVELOPER, CONTRACTOR, OTAY WATER DISTRICT INSPECTOR AND CITY ENGINEER.

BASIS OF COORDINATES

BASIS OF COORDINATES IS THE CALIFORNIA COORDINATE SYSTEM NORTH AMERICAN DATUM 1993 (NAD83) PER THE CITY OF CHULA VISTA SURVEY CONTROL NETWORK.

OWNER'S CERTIFICATE

IT IS AGREED THAT FIELD CONDITIONS MAY REQUIRE CHANGES TO THESE PLANS. IT IS FURTHER AGREED THAT THE OWNER (DEVELOPER) SHALL HAVE THE ENGINEER OF WORK MAKE SUCH CHANGES, ALTERATIONS OR ADDITIONS TO THESE PLANS WHICH THE ENGINEER OF WORK DETERMINES ARE NECESSARY AND DESIRABLE FOR THE PROPER COMPLETION OF THE IMPROVEMENTS. ALL PLAN CHANGES SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION.

I FURTHER AGREE TO COMMENCE WORK ON ANY IMPROVEMENTS SHOWN ON THESE PLANS WITHIN EXISTING CITY RIGHT-OF-WAY WITHIN 60 DAYS AFTER ISSUANCE OF THE CONSTRUCTION PERMIT AND TO PURSUE SUCH WORK ACTIVELY ON EVERY NORMAL WORKING DAY UNTIL COMPLETED, IRRESPECTIVE AND INDEPENDENT OF ANY OTHER WORK ASSOCIATED WITH THIS PROJECT OR UNDER MY CONTROL.

NAME: HOMEFED VILLAGE 8, LLC
ADDRESS: 1903 WRIGHT PLACE, SUITE 200 PHONE: (760) 918-8200
CARLSBAD, CA 92008 DATE: 1-6-22
BY:

SOILS ENGINEERING CERTIFICATE:

I JOHN J. DONOVAN, A REGISTERED CIVIL ENGINEER OF THE STATE OF CALIFORNIA, PRINCIPALLY DOING BUSINESS IN THE FIELD OF APPLIED SOILS MECHANICS, HEREBY VERIFY THAT A SAMPLING AND STUDY OF SOILS CONDITIONS PREVALENT WITHIN THE SITE WAS MADE BY ME OR UNDER MY DIRECTION BETWEEN THE DATES OF 10/22/10 AND 6/1/18. ONE COMPLETE COPY OF THE SOILS REPORT COMPLIED FROM THIS STUDY, WITH MY RECOMMENDATIONS, HAS BEEN SUBMITTED TO THE OFFICE OF THE CITY ENGINEER.

THESE IMPROVEMENTS PLANS HAVE BEEN REVIEWED BY ME OR UNDER MY DIRECTION AND CONFORM TO THE RECOMMENDATIONS MADE IN THE SOILS REPORT MENTIONED ABOVE.

SIGNED: DATE: 1/04/22
DISCIPLINE: GEOTECHNICAL, GE 2790 EXPIRATION DATE: 06-30-23

ENGINEER OF WORK

I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE IMPROVEMENTS SHOWN ON THIS SET OF PLANS (SHEET 1 THROUGH SHEET 34) HAVE BEEN INSTALLED AND CONSTRUCTED IN SUBSTANTIAL CONFORMANCE WITH SAID PLANS, APPROPRIATE STANDARDS AND ANY DISCRETIONARY APPROVAL (S) FOR THE PROJECT.

SIGNED:
PRINTED NAME: DEXTER S. WILSON
DISCIPLINE: CIVIL
DATE: 01-04-22
P.E. NO. 33692
REGISTRATION EXPIRES: 6-30-22

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE 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 THE PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF CHULA VISTA AND OTAY WATER DISTRICT IS CONFINED TO REVIEW ONLY AND DOES NOT RELIEVE ME AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR THE PROJECT DESIGN.

DEXTER WILSON ENGINEERING INC.
22234 FARADAY AVENUE
CARLSBAD, CA 92008

BY:
DEXTER S. WILSON, RCE No. 33692
DATE 01-04-22

OWNER/APPLICANT

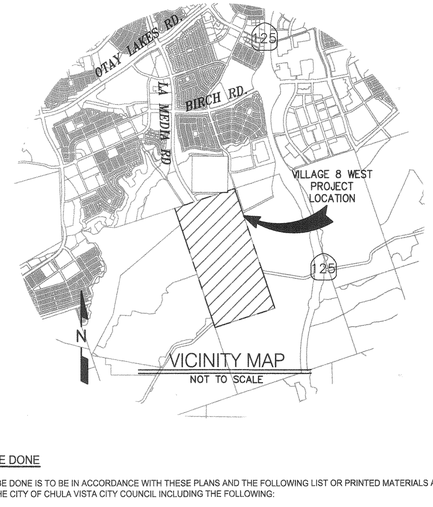
HOMEFED VILLAGE 8, LLC.
1903 WRIGHT PLACE, SUITE 220
CARLSBAD, CA. 92008
(760) 918-8200

LEGAL DESCRIPTION

BEING PORTIONS OF LOTS 27 AND 28 OF OTAY RANCH, IN THE COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, ACCORDING TO MAP THERE OF NO. 962, FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY, FEBRUARY 7,1900.

ASSESSOR'S PARCEL

APN 644-070-12, 14
APN 644-070-13 (NOT A PART, CITY OF SAN DIEGO RESERVOIR)



WORK TO BE DONE

THE WORK TO BE DONE IS TO BE IN ACCORDANCE WITH THESE PLANS AND THE FOLLOWING LIST OR PRINTED MATERIALS AS CURRENTLY ADOPTED BY THE CITY OF CHULA VISTA CITY COUNCIL INCLUDING THE FOLLOWING:

1. STANDARDS SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION ("GREENBOOK") AND REGIONAL SUPPLEMENT AMENDMENTS (TO THE GREENBOOK), LATEST EDITIONS.
2. 2012 SAN DIEGO AREA REGIONAL STANDARDS DRAWINGS.
3. CITY OF CHULA VISTA STANDARDS SPECIAL PROVISIONS (TO THE GREENBOOK), LATEST EDITION.
4. DESIGN AND CONSTRUCTION STANDARDS OF CITY OF CHULA VISTA, LATEST EDITION.
5. WATER AGENCIES STANDARDS SPECIFICATIONS FOR WATER, RECYCLED WATER AND SEWER FACILITIES LATEST EDITION.

SHEET INDEX

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DEXTER WILSON ENGINEERING, INC.
CONSULTING ENGINEERS
2234 FARADAY AVENUE
CARLSBAD, CA 92008
(760) 438-4422

UTILITY NOTE

ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.

CITY "AS-BUILT"

(SIGNATURE) DATE
(PRINTED NAME) P.E. NO.:
MY REGISTRATION EXPIRES: DISCIPLINE

O.W.D. "AS-BUILT"

(SIGNATURE) DATE
(PRINTED NAME) P.E. NO.:
MY REGISTRATION EXPIRES: DISCIPLINE

OTAY WATER DISTRICT

PROJECT#: D1044-090422
PERMIT#: DEV-19-013
P.Z.: W980, W711 R815, R680
MICHAEL LONG RCE 62216, EXP. 09/30/22 DATE: 1/7/2022
John Thayer [Digitally signed by John Thayer Date: 2021.12.27 17:12:36-08'00']
REVIEWED BY: DATE:

REGISTERED PROFESSIONAL ENGINEER DEXTER S. WILSON No. 33692 EXP. 6/30/22 CIVIL STATE OF CALIFORNIA

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd
Contractor					
Inspector					
Date Completed					

BENCH MARK
DESCRIPTION : BRASS DISK MKD. "SD CITY ENGR." IN 3/4" IRON PIPE 0.5 MI S'LY OF INTX LA MEDIA RD & BIRCH RD SO SIDE OF GRAVEL RD 225'+/- W OF GATE TO A.V.R.TRACKING STA 15'+/- E OF METAL GATE.(PT # 1344 PER R.O.S. 14841)
ELEVATION = 520.425 (NAVD '88)

SCALE
Horizontal N/A
Vertical N/A

Designed By DSW | Drawn By DLW | Checked By DSW

Plans Prepared Under Supervision Of
DEXTER S. WILSON
Date 01-04-22
R.C.E. No. 33692

Submitted
By
Planning | Land Arch

Approved
By
Principal Civil Engineer

CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT
IMPROVEMENT PLANS FOR: MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS
TITLE SHEET

Drawing No. 20041-01
W.O. No. OR6571

O.W.D. NO. D1044-090422
DEV-19-013

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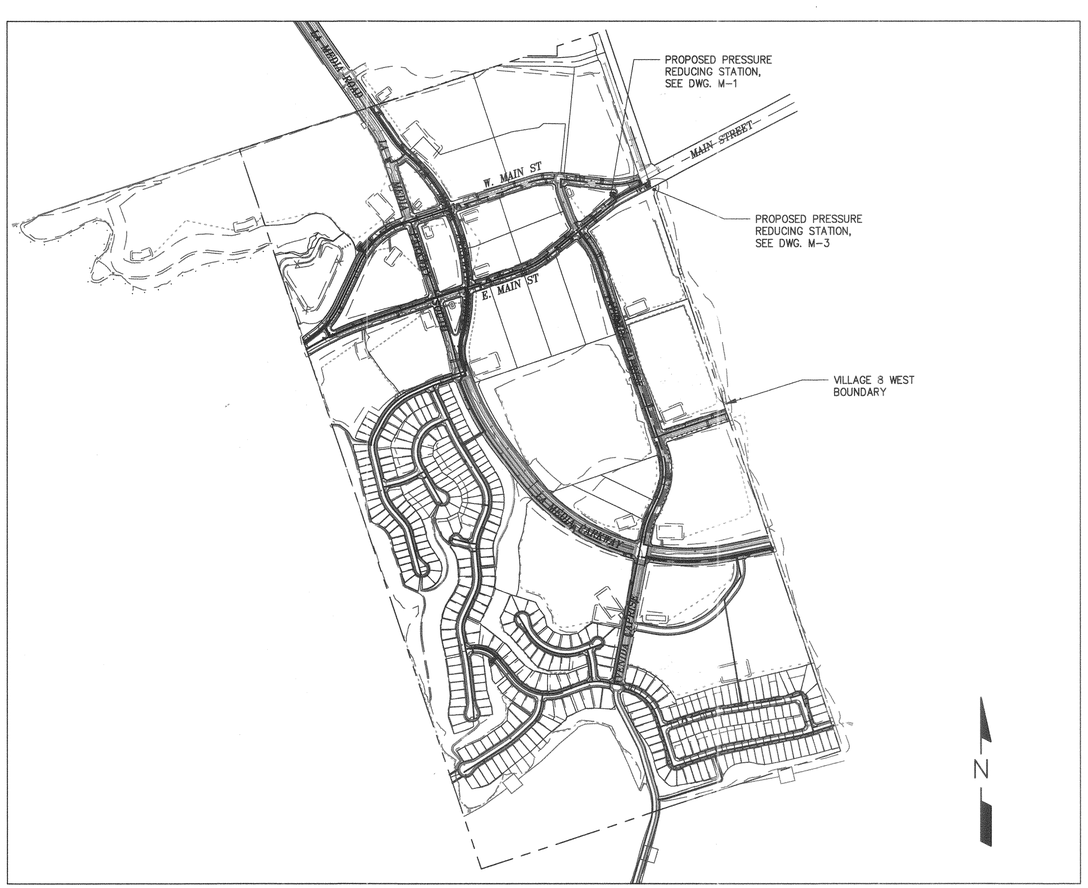
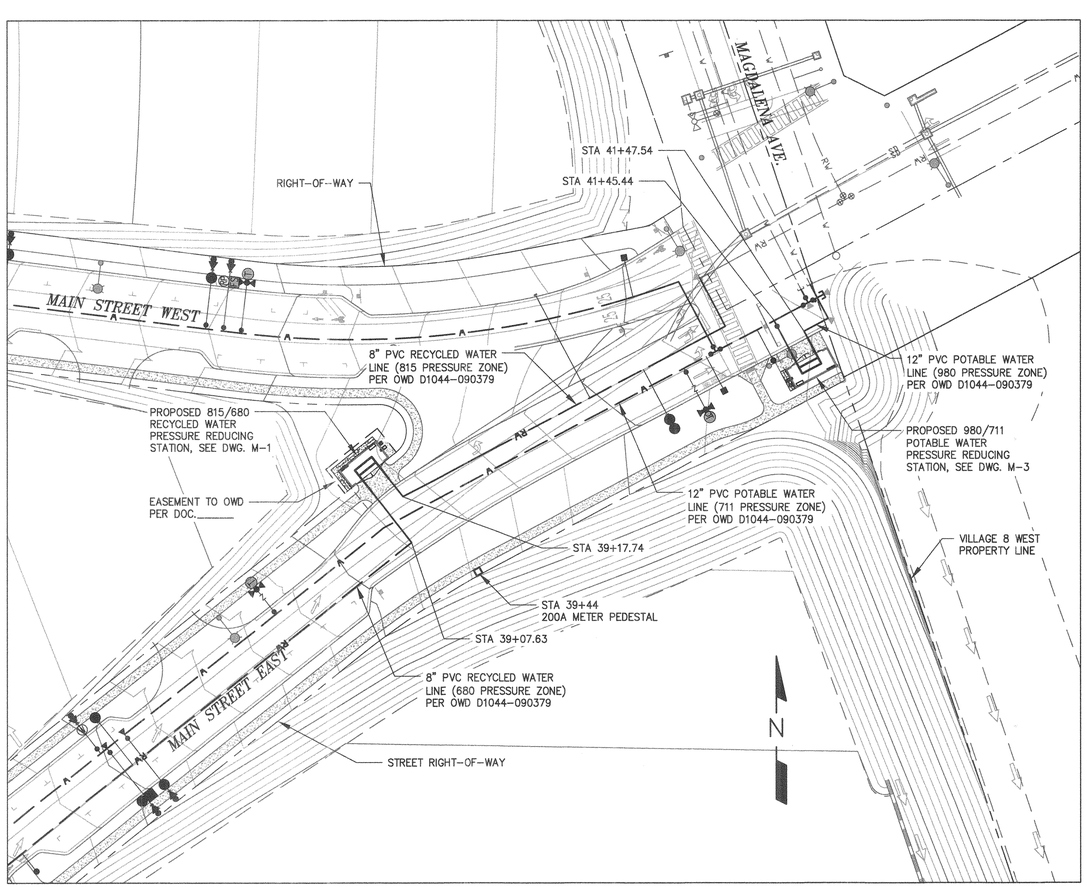
OTAY VILLAGE 8 WEST
MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS



LOCATION MAP

SCALE: 1" = 20'

THOMAS BROS MAP PAGE 1311, GRID E3



SITE PIPING MAP

SCALE: 1" = 10'

OTAY VILLAGE 8 WEST
MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS

UTILITY NOTE

ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.

CITY "AS-BUILT"

(SIGNATURE) DATE

(PRINTED NAME) P.E. NO.:

MY REGISTRATION EXPIRES: DISCIPLINE

O.W.D. "AS-BUILT"

(SIGNATURE) DATE

(PRINTED NAME) P.E. NO.:

MY REGISTRATION EXPIRES: DISCIPLINE

OTAY WATER DISTRICT

PROJECT#: D1044-090422 W980, W711

PERMIT#: DEV-19-013 P.Z.: R815, R680

John Thayer Digitally signed by John Thayer Date: 2021.12.27 17:13:02-08'00'

REVIEWED BY: DATE:

REGISTERED PROFESSIONAL ENGINEER DEXTER S. WILSON No. 33692 CIVIL STATE OF CALIFORNIA

G-2

DEXTER WILSON ENGINEERING, INC.
CONSULTING ENGINEERS
2234 FARADAY AVENUE
CARLSBAD, CA 92008
(760) 438-4422

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd
Contractor					
Inspector					
Date Completed					

BENCH MARK

DESCRIPTION : BRASS DISK MKD. "SD CITY ENGR." IN 3/4" IRON PIPE 0.5 MI S'LY OF INTX LA MEDIA RD & BIRCH RD SO SIDE OF GRAVEL RD 225'+- W OF GATE TO A.V.R.TRACKING STA 15'+- E OF METAL GATE.(PT # 13-4 PER R.O.S. 14841) ELEVATION = 520.425 (NAVD '88)

SCALE	
Horizontal	N/A
Vertical	N/A

Designed By	Drawn By	Checked By
DSW	DLW	DSW

Plans Prepared Under Supervision Of

DEXTER S. WILSON Date 01-04-22 R.C.E. No. 33692

Submitted By

Planning | Land Arch

Approved By

Principal Civil Engineer

CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT

IMPROVEMENT PLANS FOR: MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS

LOCATION AND SITE PIPING MAP

Drawing No. 20041-02

W.O. No. OR6571

O.W.D. NO. D1044-090422
DEV-19-013

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OTAY WATER DISTRICT NOTES

1. WATER MAINS AND APPURTENANCES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS AND THE CURRENT APPROVED WATER AGENCIES' STANDARDS.

2. OTAY DISTRICT INSPECTION SHALL RECEIVE THE CONSTRUCTION SCHEDULE AT LEAST FIVE (5) WORKING DAYS IN ADVANCE OF THE START OF CONSTRUCTION. WORK DONE WITHOUT BENEFIT OF INSPECTION SHALL BE SUBJECT TO REMOVAL AT THE CONTRACTOR'S EXPENSE. THE TELEPHONE NUMBER OF OTAY WATER DISTRICT INSPECTION IS (619) 670-2244.

3. CONSTRUCTION SHALL NOT START UNTIL THE SUBDIVISION AGREEMENT HAS BEEN EXECUTED BETWEEN THE OTAY WATER DISTRICT AND THE DEVELOPER AND A PRE-CONSTRUCTION MEETING HAS BEEN HELD WITH THE OTAY WATER DISTRICT'S INSPECTION DEPARTMENT.

4. THE CONTRACTOR SHALL POTHOLE ALL TIE-IN LOCATIONS BEFORE PIPE INSTALLATION TO DETERMINE PIPE SIZE AND MATERIAL, ELEVATION, AND IF TIE-IN CAN BE MADE AT THE LOCATION INDICATED. THE CONTRACTOR SHALL ALSO POTHOLE ALL EXISTING UTILITIES THAT MAY INTERFERE WITH THE TIE-IN LOCATION AND EXPOSE PIPE A MINIMUM OF 3-FEET ON EACH SIDE OF THE CONNECTION POINT TO ASSURE THAT NO COLLARS ARE IN THE TAP AREA. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OTAY WATER DISTRICT'S ENGINEERING DEPARTMENT, PUBLIC SERVICES PRIOR TO PROCEEDING.

5. WATER PRESSURE REGULATORS WILL BE REQUIRED. THE INSTALLATION AND MAINTENANCE OF REGULATORS SHALL BE THE RESPONSIBILITY OF THE DEVELOPER.

6. APPROVAL OF THE PLANS BY THE OTAY WATER DISTRICT DOES NOT CONSTITUTE RESPONSIBILITY FOR ACCURACY OF INFORMATION NOR LOCATIONS OF EXISTING FACILITIES.

7. DEVELOPER/CUSTOMER AGREES THAT IF IT, ITS EMPLOYEES, AGENTS, OR ANY INDEPENDENT CONTRACTORS OR SUBCONTRACTORS SHOULD MAKE AN UNAUTHORIZED CONNECTION TO THE DISTRICT WATER SYSTEM, CUSTOMER IS SUBJECT TO THE FINES SET FORTH IN SECTION 72 OF THE DISTRICT'S CODE OF ORDINANCES INCLUDING, BUT NOT LIMITED TO, SECTION 72.03, "CERTAIN SPECIFIC OPERATIONAL VIOLATIONS". CUSTOMER ACKNOWLEDGES AND AGREES THAT PAYMENT OF FINES MAY BE DEDUCTED FROM ANY DEPOSIT CUSTOMER HAS WITH THE DISTRICT.

8. NO PERSON, OTHER THAN AN EMPLOYEE OR AGENT OF THE DISTRICT, SHALL HAVE ANY RIGHT TO OPERATE ANY PART OF A DISTRICT WATER DISTRIBUTION SYSTEM. ANY PERSON WHO TAMPERS OR INTERFERES WITH ANY PART OR COMPONENT OF SAID SYSTEM, OR CAUSES OR PERMITS ANY ACT OF TAMPERING OR INTERFERING WITH THE SYSTEM, SHALL BE LIABLE FOR ANY INJURY OR DAMAGE CAUSED THEREBY OR RESULTING THEREFROM. IN ADDITION, THE FINES SET FORTH IN SECTION 72 OF THE DISTRICT'S CODE OF ORDINANCES INCLUDING, BUT NOT LIMITED TO, SECTION 72.03, "CERTAIN SPECIFIC OPERATIONAL VIOLATIONS", WILL BE IMPOSED ON ANY PERSON OR COMPANY WHO OPERATES ANY PART OF THE DISTRICT WATER SYSTEM WITHOUT PROPER AUTHORIZATION.

9. NO MORE THAN 70 EQUIVALENT DWELLING UNITS CAN BE ON AN UNLOOPED SYSTEM.

10. NO MORE THAN 1,320 FEET OF MAIN SHALL BE IN USE WITHOUT LOOPING TO A SECOND SOURCE. THE WATER MAIN SHALL BE DESIGNED AND INSTALLED SO THAT IT TERMINATES AT A LOT LINE AND NOT WITHIN A LOT OR OTHERWISE APPROVED BY THE OTAY WATER DISTRICT.

11. THRUST BLOCK SIZING ASSUMES A SOIL BEARING CAPACITY OF 1,500 PSF. SHOULD FIELD CONDITIONS INDICATE A LESSER SOIL BEARING CAPACITY, NOTIFY THE OTAY WATER DISTRICT'S ENGINEERING DEPARTMENT, PUBLIC SERVICES.

12. THE TOP OF POTABLE WATER MAINS 12-INCHES IN DIAMETER AND SMALLER MUST BE 3.5 FEET BELOW FINISHED GRADE. THE TOP OF RECYCLED WATER MAINS 12- INCHES IN DIAMETER AND SMALLER MUST BE AT LEAST 4.5 FEET BELOW FINISHED GRADE. ALL WATER MAINS 16-INCHES IN DIAMETER AND LARGER MUST HAVE AN ADDITIONAL 1-FOOT OF COVER. THE TOP OF PIPE ELEVATIONS SHALL BE PROVIDED ON THE PROFILE EVERY 100 FEET. PIPELINES MUST BE THE CLASS AS SHOWN AND CONSTRUCTED ACCORDING TO THE APPROVED PLANS WITH A HORIZONTAL TOLERANCE OF 0.15 FEET AND A VERTICAL TOLERANCE OF 0.10 FEET.

13. EVERY RESIDENTIAL LOT MUST BE SERVED BY A 1-INCH COPPER SERVICE (WAS DWG WS-01). ALL OTHER LOTS MUST BE SERVED WITH A MINIMUM 2-INCH COPPER SERVICE (WAS DWG WS-02). CATHODIC PROTECTION WILL BE REQUIRED ON ALL NEW COPPER SERVICES AND COPPER APPURTENANCES PER WAS DWG WC-17. ALL SACRIFICIAL ANODES SHALL BE CONNECTED TO THE COPPER APPURTENANCES AT THE TIME OF INSTALLATION. ANODES SHALL BE TESTED FOR OPERATION WITH A REPORT ISSUED BY THE DEVELOPER'S CORROSION ENGINEER. STATING THE ACCEPTABILITY OF THE INSTALLATIONS AND STATING THAT THE ANODES ARE PROVIDING ADEQUATE PROTECTION. SERVICE SADDLES SHALL BE A MINIMUM 2.0 FEET AWAY FROM OTHER SADDLES AND OR JOINTS. MULTIPLE SADDLES ON THE SAME PIPE LENGTH SHALL BE ALTERNATELY STAGGERED 10 TO 30 DEGREES TO PREVENT A WEAK PLANE IN THE PIPE.

14. FOR CONNECTIONS TO EXISTING WATER MAINS, ALL WET TAP CONNECTIONS TO EXISTING PIPELINES, WHETHER FOR MAINLINE EXTENSION OR SERVICE LATERALS, SHALL BE PERFORMED BY THE DISTRICT. THE CONTRACTOR SHALL FURNISH THE TAPPING SLEEVE OR TEE, VALVES AND ALL OTHER MATERIALS AS CALLED FOR IN THE WATER AGENCIES' STANDARDS, HTTP://WWW.SDWAS.ORG. STANDARD SPECIFICATIONS SECTION, IN ACCORDANCE WITH THE APPROVED MATERIALS LIST. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, LABOR AND TRAFFIC CONTROL REQUIRED FOR THE EXCAVATION AND INSTALLATION OF THE CONNECTION INCLUDING BUT NOT LIMITED TO EXCAVATION BY HAND OR MACHINE, POURING OF THRUST AND ANCHOR BLOCKS, INSTALLATION OF GATE CASING, PAINTING AND WRAPPING OF FITTINGS, BACKFILL AND COMPACTION OF TRENCH AREA AND PAVEMENT REPLACEMENT.

15. A MINIMUM OF 24-INCHES OF PERMANENT BACKFILL SHALL BE INSTALLED OVER THE WATER MAIN PRIOR TO ANY TESTING.

16. ALL NEW GATE OR BUTTERFLY VALVES SHALL FLANGED ENDS UNLESS OTHERWISE APPROVED BY THE DISTRICT ENGINEER.

ABBREVIATION	TERMS
A	AMPERE/AREA
AA	ALUMINUM ASSOCIATION
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
AB	ANCHOR BOLT/AGGREGATE BASE
ABAN	ABANDONED
ABC	ASPHALT BASE COURSE
AC	ACRE/ASPHALT CONCRETE/ALTERNATING CURRENT
ACI	AMERICAN CONCRETE INSTITUTE
ACP	ASBESTOS-CEMENT PIPE
ACU	ACCESS DOOR
AE	ARCHITECT-ENGINEER
AFF	ABOVE FINISHED FLOOR
AGG	AGGREGATE
AI	THE ASPHALT INSTITUTE
AIA	AMERICAN INSTITUTE OF ARCHITECTS
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC.
AISI	AMERICAN IRON AND STEEL INSTITUTE
AL	ALUMINUM
AMB	AMBIENT
AMP	AMPERE
ANG	ANGLE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APA	AMERICAN PLYWOOD ASSOCIATION
API	AMERICAN PETROLEUM INSTITUTE
APWA	AMERICAN PUBLIC WORKS ASSOCIATION
ARCH	ARCHITECTURE/ARCHITECTURAL
ARV	AIR-RELEASE VALVE
ARVV	AIR-RELEASE AND VACUUM VALVE
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR-CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASPH	ASPHALT
ASSY	ASSEMBLY
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
ATS	AUTOMATIC TRANSFER SWITCH
AVE	AVENUE
AVG	AVERAGE
AWG	AMERICAN WIRE GAGE
AWS	AMERICAN WELDING SOCIETY
AWWA	AMERICAN WATER WORKS ASSOCIATION
BB	BACK-TO-BACK
BC	BEGINNING OF CURVE/BACK OF CURB/BARE COPPER
BEG	BEGIN
BETW	BETWEEN
BF	BLIND FLANGE
BFV	BUTTERFLY VALVE
BHP	BRAKE HORSEPOWER
BK	BACK/BRAKE
BKR	BREAKER
BL	BUILDING
BLK	BLOCK
BLVD	BOULEVARD
BM	BENCH MARK/BEAM
BO	BLOWOFF
BOP	BOTTOM OF PIPE
BOT	BOTTOM
BP	BASEPLATE
BRG	BEARING
BRNZ	BRONZE
BTN	BUTTON
BTU	BRITISH THERMAL UNIT
BUR CBL	BURIED CABLE
BVC	BEGIN VERTICAL CURVE
BW	BLOCK WALL
C	CONDUIT/CELSIUS/CIVIL DRAWINGS/COPPER
CAB	CRUSHED AGGREGATE BASE
CAP	CAPACITY
CB	CATCH BASIN/CIRCUIT BREAKER
CC	COOLING COIL
C-C	CENTER-TO-CENTER
CCB	CONCRETE BLOCK
CD	CROSS DRAIN/CONDENSATE DRAIN/CEILING DIFFUSER
CEM	CEMENT
CF	CUBIC FEET/CURB FACE
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CG	CONSTRUCTION GRADE
C&G	CURB AND GUTTER
CHG	CHANGE
CHKD PL	CHECKERED PLATE
CI	CAST-IRON
CIP	CAST-IN-PLACE/CAST-IRON PIPE
CISP	CAST-IRON SOIL PIPE
CISPI	CAST-IRON SOIL PIPE INSTITUTE
CJ	CONSTRUCTION JOINT
CL	CENTERLINE/CLASS/CLEARANCE/CHLORINE
CLR	CLEAR
CMLCSP	CEMENT-MORTAR LINED & COATED STEEL PIPE
CMLSP	CEMENT-MORTAR LINED STEEL PIPE
CMP	CORRUGATED METAL PIPE
CMPA	CORRUGATED METAL PIPE ARCH
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT/CONDUIT ONLY
COL	COLUMN
COMM	COMMUNICATION
COMP	COMPOSITE
COMPL	COMPLETE
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCT OR CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE/COORDINATED
COP	COPPER
COR	CORNER
CORP	CORPORATION
CP	CATHODIC PROTECTION
CPLG	COUPLING
CRSI	CONCRETE REINFORCING STEEL INSTITUTE
CS	COMMERCIAL STANDARD, US DEPARTMENT OF COMMERCE
CT	CENTER TOP/CURRENT TRANSFORMER
CTG	COATING
CTR	CENTER
CULV	CULVERT
CU YD, CY	CUBIC YARD
CYL	CYLINDER
D	DEGREE OF CURVATURE
DB	DIRECT BURIED/DECIBEL
DBL	DOUBLE
DC	DIRECT CURRENT
DEPT	DEPARTMENT
DET	DETAIL/DETOUR
DG	DECOMPOSED GRANITE
DI	DROP INLET
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIMJ	DUCTILE-IRON MECHANICAL JOINT
DIP	DUCTILE-IRON PIPE
DIPRA	DUCTILE-IRON PIPE RESEARCH ASSOCIATION
DISCH	DISCHARGE
DIST	DISTANCE
DMH	DROP MANHOLE
DN	DOWN
DR	DRAIN/DOOR
DSL	DIESEL
DWG	DRAWING
DWY	DRIVEWAY
E	EAST/ELECTRICAL DRAWINGS
EA	EACH
EC	END OF CURVE
ECC	ECCENTRIC
ED	EXTERNAL DISTANCE
EE	EACH END
EF	EACH FACE/EXHAUST FAN
EFF	EFFICIENCY
EFL	EFFLUENT
EGL	ENERGY GRADE LINE
EL	ELEVATION/EACH LAYER
EL	EASEMENT LINE
ELEC	ELECTRIC
ELP	ELLIPTICAL
ENC	ENCASEMENT OR ENCASED
ENCL	ENCLOSURE
ENG	ENGINE
ENGR	ENGINEER
EOS	EQUIVALENT OPENING SIZE
EP	EDGE OF PAVEMENT/EXPLOSION PROOF
EPA	ENVIRONMENTAL PROTECTION AGENCY (FEDERAL)
EQ	EQUATION
EQL	EQUAL
ESMT	EASEMENT
EST	ESTIMATE OR ESTIMATED
ETC	AND SO FORTH
EVC	END VERTICAL CURVE
EW	EACH WAY
EXC	EXCAVATE OR EXCAVATION
EXP	EXPANSION
EXST	EXISTING
EXT	EXTERIOR/EXTENSION
F	FAHRENHEIT/FLOOR
FAB	FABRICATE
FERBD	FIBERBOARD
FC	FOOT-CANDLE
FCO	FLOOR CLEANOUT
FCV	FLOW CONTROL VALVE
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FLANGED END/FENCE
FED SPEC	FEDERAL SPECIFICATION
FF	FINISHED FLOOR/FLAT FACE
FG	FINISHED GRADE
FH	FIRE HYDRANT
F&I	FURNISH AND INSTALL
FIG	FIGURE
FIP	FEMALE IRON PIPE THREAD
FIT	FITTING
FL	FLOOR/FLOW LINE
FLG	FLANGE
FM	FORCE MAIN/FACTORY MUTUAL
FMH	FLEXIBLE METAL HOSE
FNSH	FINISH
FOC	FACE OF CONCRETE
FPC	FLEXIBLE PIPE COUPLING
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FINISHED SURFACE/FLOOR SINK/FEDERAL SPECIFICATIONS
FSTNR	FASTENER
FT	FEET
FTG	FOOTING
FUT	FUTURE
G	GAS/GENERAL DRAWINGS/GRAM
GA	GAGE
GAL	GALLON
GALV	GALVANIZED
GB	GRADE BREAK
GDR	GUARD RAIL
GE	GROOVED-END
GENL	GENERAL
GFI	GROUND FAULT INTERRUPTER
GM	GAS MAIN
GND	GROUND
GPD	GALLONS PER DAY
GPM	GALLONS PER MINUTE
GR	GRADE
GSKT	GASKET
GUT	GUTTER
GV	GATE VALVE
H	HUMIDISTAT/HORIZONTAL
HARN	HARNESS
HB	HOSE BIB
HD	HEAVY DUTY
HDPE	HIGH-DENSITY POLYETHYLENE PIPE
HGL	HYDRAULIC GRADE LINE
HGT	HEIGHT
HMWPE	HIGH-MOLECULAR WEIGHT POLYETHYLENE
HORIZ	HORIZONTAL
HP	HORSEPOWER/HIGH PRESSURE
HPT	HIGH POINT
HR	HOUR/HANDRAIL
HS	HIGH STRENGTH
HV	HOSE VALVE
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
HW	HEADWALL/HOT WATER
HWD	HELIX WATER DISTRICT
HWL	HIGH WATER LEVEL
HWY	HIGHWAY
HYDR	HYDRAULIC
HZ	HERTZ (CYCLES PER SECOND)
I	INTERSECTION ANGLE/INSTRUMENTATION
ICBO	INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCHES
INCL	INCLUDE
INL	INLET
INSUL	INSULATING
INSTL	INSTALL OR INSTALLATION
INT	INTERIOR
INTR	INTERSECTION
INV	INVERT
I/O	INLET/OUTLET
IP	IRON PIPE
IPS	IRON PIPE SIZE
IPT	IRON PIPE THREAD
IRR	IRRIGATION
JB	JUNCTION BOX
JCT	JUNCTION
JN	JOIN
JT	JOINT
KG	KILOGRAM
KIPS	THOUSANDS OF POUNDS
KM	KILOMETER
KPA	KILOPASCAL
KV	KILOVOLT
KW	KILOWATT
KWH	KILOWATT-HOUR
KWHM	KILOWATT-HOUR METER
L	LENGTH OF CURVE/LONG/LANDSCAPING
LATL	LATERAL
LB	POUND
LCL	LOCAL
LF	LINEAR FOOT
LNDSCP	LANDSCAPING
LOCN	LOCATION
LP	LIGHT POLE
LPT	LOW POINT
LR	LONG RADIUS
LS	LIFT STATION
LT	LEFT/LIGHT
LWC	LIGHTWEIGHT CONCRETE
LWIC	LIGHTWEIGHT INSULATING CONCRETE
LWD	LAKESIDE WATER DISTRICT
LWL	LOW WATER LEVEL
M	MECHANICAL DRAWINGS/METER
MATL	MATERIAL
MAX	MAXIMUM
MB	MACHINE BOLT/MEGABYTE/MILLIBARS
MC	METAL CHANNEL
MCM	THOUSAND CIRCULAR MILS
ME	MACHINED END
MECH	MECHANICAL
MFR	MANUFACTURER
MG	MILLION GALLONS/MILLIGRAM
MGD	MILLION GALLONS PER DAY
MH	MANHOLE
MHZ	MEGAHERTZ
MI	MALLEABLE IRON/MILE
MIL	MILITARY SPECIFICATIONS
MIL-	MILITARY SPECIFICATION (LEADING SYMBOL)
MIN	MINIMUM
MIP	MALE IRON PIPE THREAD
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
MM	MILLIMETER
MO	MOTOR OPERATOR/MOTOR OPERATED/MASONRY OPENING
MOD	MODIFICATION
MON	MONUMENT
MOT	MOTOR
MOV	MOTOR OPERATED VALVE
MSDS	MATERIAL SAFETY DATA SHEET
MSL	MEAN SEA LEVEL
MTD	MOUNTED
N	NORTH/NEUTRAL/NITROGEN
NA	NOT APPLICABLE
NACE	NATIONAL ASSOCIATION OF CORROSION ENGINEERS
NBS	NATIONAL BUREAU OF STANDARDS
N & C	NAIL AND CAP
NC	NORMALLY CLOSED
NCV	NORMALLY CLOSED VALVE
NE	NORTHEAST
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFC	NATIONAL FIRE CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NIP	NIPPLE
NO	NUMBER/NORMALLY OPEN
NOM	NOMINAL
NPT	NATIONAL PIPE TAPER
NRS	NON-RISING STEM
NSF	NATIONAL SANITATION FOUNDATION
NTS	NOT TO SCALE
NTU	NEPHELOMETRIC TURBIDITY UNITS
NW	NORTHWEST
NWL	NORMAL WATER LEVEL
OA	OVERALL/OUTSIDE AIR
OC	ON CENTER/OVERCURRENT
OD	OUTSIDE DIAMETER
OE	OR EQUAL
OF	OUTSIDE FACE
OFCI	OWNER-FURNISHED CONTRACTOR-INSTALLED
OFCR	OWNER-FURNISHED CONTRACTOR-RELOCATED
OPER	OPERATOR
OPNG	OPENING
OPP	OPPOSITE
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
O TO O	OUT TO OUT
OUTL	OUTLET
OVFL	OVERFLOW
OVHD	OVERHEAD
OWD	OTAY WATER DISTRICT
P	POLE
PARA	PARAGRAPH
PB	PUSH BUTTON/PULL BOX
PC	POINT OF CURVATURE/PROGRAMMABLE CONTROLLER
PCA	PORTLAND CEMENT ASSOCIATION
PCC	POINT OF COMPOUND CURVATURE/PORTLAND CEMENT CONCRETE
PDMWD	PADRE DAM MUNICIPAL WATER DISTRICT
PE	PLAIN END/POLYETHYLENE/PROFESSIONAL ENGINEER
PEN	PENETRATION
PG	PRESSURE GAGE
PI	POINT OF INTERSECTION
PJTN	PROJECTION
PKWY	PARKWAY
PL	PLATE/PROPERTY LINE
PLATF	PLATFORM
PLF	POUNDS PER LINEAL FOOT
PM	PARCEL MAP
PNL	PANEL
PO	PUSH-ON
POB	POINT OF BEGINNING
POC	POINT OF CONNECTION
POR	PORTION
PP	POWER POLE/POLYPROPYLENE
PPB	PARTS PER BILLION
PPM	PARTS PER MILLION
PR	PAIR
PRC	POINT OF REVERSE CURVE
PRESS	PRESSURE
PRL	PARALLEL
PRPSD	PROPOSED
PRVC	POINT OF REVERSE VERTICAL CURVE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAGE
PSF	POUNDS PER SQUARE FOOT
PT	POINT OF TANGENCY
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE/POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECT
PVMT	PAVEMENT
PWR	POWER
Q	FLOW RATE
QTY	QUANTITY
R	RIGHT/RADIUS
RAF	RETURN AIR FAN
RC	REINFORCED CONCRETE
RCP	REINFORCED CONCRETE PIPE
RCPA	REINFORCED CONCRETE PIPE ARCH
RD	ROAD
RDC	REDUCE
RDCR	REDUCER
RDWY	ROADWAY
REF	REFERENCE
REINF	REINFORCE OR REINFORCED
RELOC	RELOCATE
REQD	REQUIRED
RES	RESERVOIR
REV	REVISE/REVISION
RF	RAISED FACE
RH	RELATIVE HUMIDITY
RJ	RESTRAINED JOINT
RND	ROUND
RM	RECORD MAP
RMWD	RAMONA MUNICIPAL WATER DISTRICT
ROS	RECORD OF SURVEY
RPM	REVOLUTIONS PER MINUTE
RS	ROAD SURVEY
RSD	REGIONAL STANDARD DRAWINGS
RST	REINFORCING STEEL
RT	RIGHT
R/W	RIGHT-OF-WAY
RWGV	RESILIENT-WEDGE GATE VALVE
S	SOUTH
SA	SWEETWATER AUTHORITY
SAE	SOCIETY OF AUTOMOTIVE ENGINEERS
SAN	SANITARY
SC	SEAL COAT
SCADA	SUPERVISORY CONTROL AND DATA ACQUISITION
SCFM	STANDARD CUBIC FEET PER MINUTE
SCHED	SCHEDULE
SCRN	SCREEN
SD	STORM DRAIN
SD CO	SAN DIEGO COUNTY
SDG	SIDING
SDWD	SAN DIEGUITO WATER DISTRICT
SE	SOUTHEAST
SECT	SECTION
SF	SQUARE FEET
SFID	SANTA FE IRRIGATION DISTRICT
SGL	SINGLE
SH	SHEET/SHEETING/SHIELDED
SHT	SHEET
SIM	SIMILAR
SKWK	SIDEWALK
SLP	SLOPE
SLV	SLEEVE
SM	SHEET METAL
SOL	SOLENOID
SOV	SOLENOID-OPERATED VALVE
SP	SPACE/STEEL PIPE/STATIC PRESSURE/SPARE/STAND PIPE
SPCG	SPACING
SPEC	SPECIFICATION
SPLC	SPLICE
SPRT	SUPPORT
SQ	SQUARE
SS	SANITARY SEWER/STAINLESS STEEL
SSPC	STEEL STRUCTURES PAINTING COUNCIL
SSPWC	STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION
ST	STREET
STA	STATION
STBY	STANDBY
STD	STANDARD
STK	STAKE
STL	STEEL
STR	STRAIGHT
STRL	STRUCTURAL
STRUCT	STRUCTURE
STS	STORM SEWER
SURF	SURFACE
SW	SOUTHWEST
SWG	SWING
SYMM	SYMMETRICAL
SYS	SYSTEM
T	TON/TANGENT LENGTH OF CURVE
TAN	TANGENT
T/B	TOP OF BEAM
TB	TOP OF BANK/TERMINAL BOARD
T&B	TOP AND BOTTOM
TBG	TUBING
TBM	TEMPORARY BENCH MARK
TC	TOP OF CURB
TDH	TOTAL DYNAMIC HEAD
TDS	TOTAL DISSOLVED SOLIDS
TEL	TELEPHONE
TEMP	TEMPERATURE/TEMPORARY
THB	THRUST BLOCK
THD	THREAD OR THREADED
THH	THRUST HARNESS
THK	THICK
TO	TURNOUT
T/O	TOP OF
TOC	TOP OF CONCRETE/TOP OF CURB
TOP	TOP OF PIPE
TOS	TOP OF SLAB
TOT	TOTAL
TP	TELEPHONE POLE
TRA	TIE ROD ASSEMBLY
TRD	THREAD
TS	TUBE SHEET
TYP	TYPICAL
UBC	UNIFORM BUILDING CODE
UD	UNDERDRAIN
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORIES, INC.
ULT	ULTIMATE
UON	UNLESS OTHERWISE NOTED
UPC	UNIFORM PLUMBING CODE
UTC	UNDERGROUND TELEPHONE CABLE
UTIL	UTILITIES
V	VENT/VALVE/VOLT/VERTICAL
VAC	VACUUM/VOLTS, ALTERNATING CURRENT
VC	VERTICAL CURVE
VEL	VELOCITY
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VOL	VOLUME
VPC	VERTICAL POINT OF CURVE
VPI	VERTICAL POINT OF INTERSECTION
VPT	VERTICAL POINT OF TANGENCY
W	WEST/WATT/WIDE/WATER/WIRE
W/	WITH
WADG	WATER AGENCIES' DESIGN GUIDE
WAS	WATER AGENCIES' STANDARDS
WASC	WATER AGENCIES' STANDARDS COMMITTEE
WE	WELD END
WG	WATER GAGE
WL	WATERLINE
WLD	WELDED
WM	WATER METER
W/O	WITHOUT
WP	WATERPROOF/WORKING POINT
WSE	WATER SURFACE ELEVATION
WSP	WATER STOP
WT	WEIGHT
WTR	WATER
WWF	WELDED WIRE FABRIC
WWM	WOVEN WIRE MESH
WWR	WELDED WIRE REINFORCEMENT
YCO	YARD CLEANOUT
YD	YARD
YP	YIELD POINT
YR	YEAR
YS	YIELD STRENGTH

OTAY VILLAGE 8 WEST
MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS

\\ARTIC\DWG\646381\PRS\P2_980-711\VBMP2_03_G-3_NOTES.DWG 11-16-21 17:06:41 LAYOUT: 24X36

UTILITY NOTE

ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.

CITY "AS-BUILT"

(SIGNATURE) DATE

(PRINTED NAME) P.E. NO.:

MY REGISTRATION EXPIRES: DISCIPLINE

O.W.D. "AS-BUILT"

(SIGNATURE) DATE

(PRINTED NAME) P.E. NO.:

MY REGISTRATION EXPIRES: DISCIPLINE

OTAY WATER DISTRICT

PROJECT#: D1044-090422
PERMIT#: DEV-19-013
John Thayer — Digitally signed by John Thayer, Date: 2021.12.27 17:13:24-08'00'
P.Z.: W980, W711, R815, R680
REVIEWED BY: DATE:

REGISTERED PROFESSIONAL ENGINEER — KEVIN S. WILSON — No. 33692 — Exp. 6/30/23 — CIVIL — STATE OF CALIFORNIA

G-3

DEXTER WILSON ENGINEERING, INC.
CONSULTING ENGINEERS
2234 FARADAY AVENUE
CARLSBAD, CA 92008
(760) 438-4422

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd
Contractor					
Inspector					
Date Completed					

BENCH MARK

DESCRIPTION : BRASS DISK MKD. "SD CITY ENGR." IN 3/4" IRON PIPE; 0.5 MI S'LY OF INTX LA MEDIA RD & BIRCH RD SO SIDE OF GRAVEL RD 225'+/- W OF GATE TO A.V.R.TRACKING STA 15'+/- E OF METAL GATE.(PT # 1344 PER R.O.S. 14841) ELEVATION = 520.425 (NAVD '88)

SCALE
Horizontal N/A
Vertical N/A

Designed By	Drawn By	Checked By
DSW	DLW	DSW

Plan Prepared Under Supervision Of
DEXTER S. WILSON
Date 01-04-22
R.C.E. No. 33692

Submitted _____ By _____ Planning | Land Arch

Approved _____ By _____ Principal Civil Engineer

CITY OF CHULA VISTA — DEVELOPMENT SERVICES DEPARTMENT

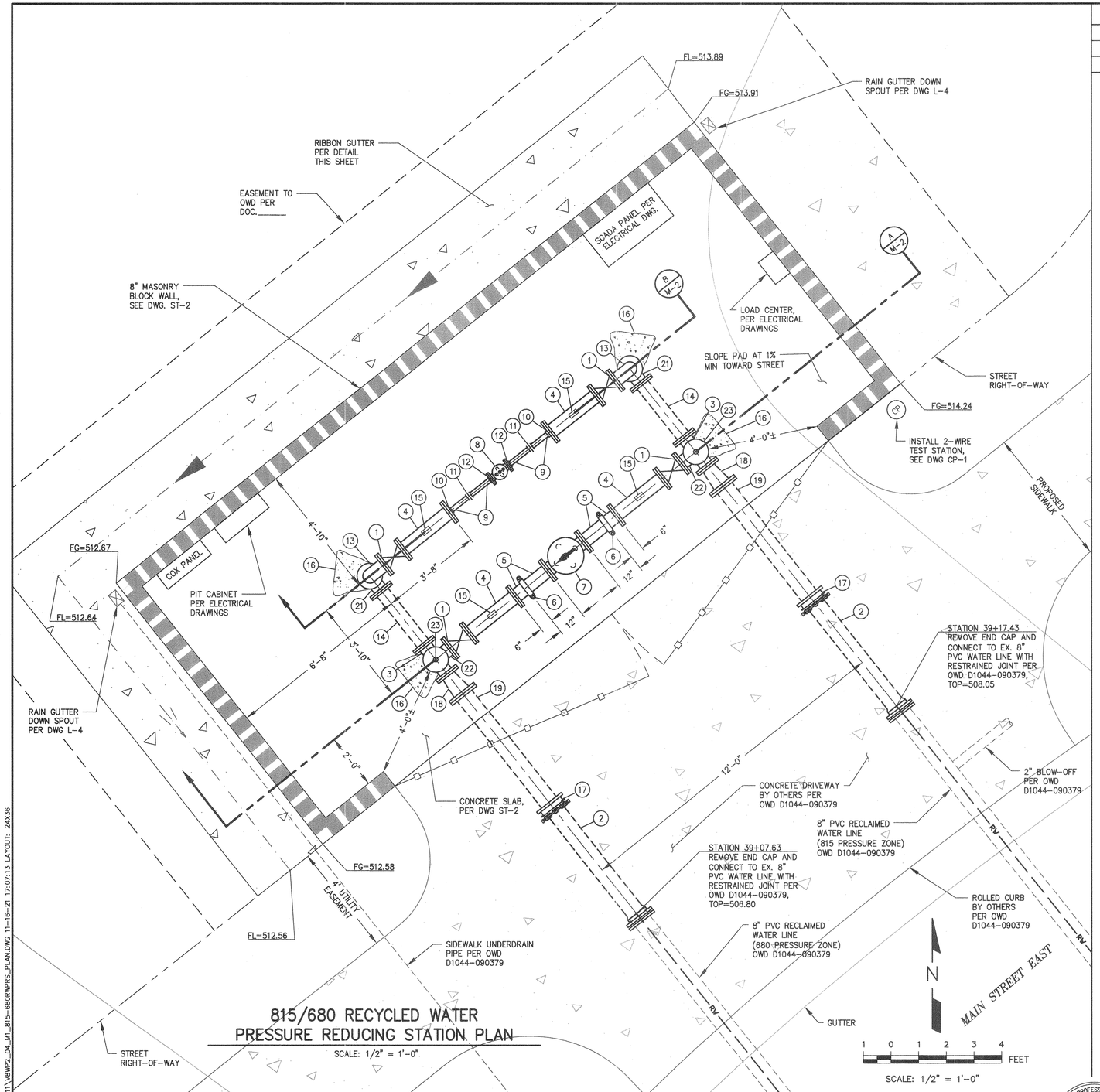
IMPROVEMENT PLANS FOR: MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS

NOTES AND ABBREVIATIONS

Drawing No. 20041-03

W.O. No. OR6571

O.W.D. NO. D1044-090422
DEV-19-013



815/680 RECYCLED WATER PRESSURE REDUCING STATION PLAN

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

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

THRUST BLOCK TABLE

DESCRIPTION	TYPE OF BLOCK	TYPE OF APPURTENANCE	TEST PRESSURE	TOTAL THRUST	ASSUMED SOIL CAPACITY	AREA OF BLOCK
UPSTREAM / DOWNSTREAM OF 6" PRV	THRUST	6" x 6" x 6" TEE	250 PSI	9,348 LB	1,500 PSF	9.3 SF
UPSTREAM / DOWNSTREAM OF 2" PRV	THRUST	6" 90° BEND	250 PSI	13,220 LB	1,500 PSF	13.2 SF

MATERIAL LIST

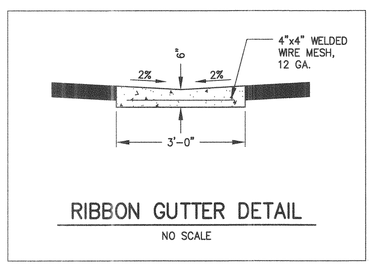
ITEM	QTY	DESCRIPTION
1	4	6" FLG. RESILIENT SEAT AWWA 509 GATE VALVE WITH 12" HANDWHEEL
2	2	8" SPOOL, PVC C900, DR14
3	2	6" TEE, FLANGED STEEL (SEE NOTE 1), 0.25" WALL
4	4	6" FLG SPOOL (LENGTH AS REQUIRED), EPOXY LINED AND COATED STEEL, MIN. 0.25" WALL
5	4	6" FLG. x SHOULDERED SPOOL (LENGTH AS REQUIRED), EPOXY LINED AND COATED STEEL, 0.25" WALL
6	2	6" STYLE 77 VICTAULIC COUPLING
7	1	6" FLG. GLOBE PATTERN PRESSURE REDUCING SUSTAINING 92 G-01 VALVE WITH X105L2W VALVE POSITION SWITCHES (CLOSED POSITION INDICATION ONLY), AND INSERTION FLOW METER WITH LOCAL DISPLAY. PROVIDE ISOLATION VALVE BETWEEN PILOT TUBING AND MAIN VALVE BODY.
8	1	2" FLG. GLOBE PATTERN PRESSURE REDUCING SUSTAINING 92 G-01 VALVE WITH X105L2W VALVE POSITION SWITCHES (CLOSED POSITION INDICATION ONLY), AND INSERTION FLOW METER WITH LOCAL DISPLAY. PROVIDE ISOLATION VALVE BETWEEN PILOT TUBING AND MAIN VALVE BODY.
9	6	2" 316 SS PIPE SPOOL, THREADED ENDS
10	2	2" x 6" THREADED COMPANION FLANGE, EPOXY LINED AND COATED STEEL
11	2	2" UNION COUPLING, 316 SS
12	2	2" COMPANION FLANGE, 316 SS
13	2	6" FLG. 90° BEND, EPOXY LINED AND COATED STEEL, 0.25" WALL
14	2	6" STEEL SPOOL (LENGTH AS REQUIRED), FLANGED (SEE NOTE 1), 0.25" WALL
15	4	PRESSURE GAUGE (4) WITH 2 TRANSMITTER CONNECTIONS PER DETAIL "A" ON DWG. M-5, PROVIDE PRESSURE GAUGES AT ALL FOUR LOCATIONS AND PRESSURE TRANSMITTERS AT TWO LOCATIONS ON THE 6-INCH LINE.
16	4	THRUST BLOCKS (SEE TABLE THIS SHEET)
17	2	8" RESTRAINED EBAA IRON SERIES 2000PV MEGALUG
18	2	8" x 6" FLG. ECCENTRIC REDUCER (FLAT ON TOP), FLANGED STEEL (SEE NOTE 1), 0.25" WALL
19	2	8" FLG. x FLG. SPOOL WITH FLG. x MJ. ADAPTER (LENGTH AS REQUIRED), FLANGED STEEL (SEE NOTE 1), 0.25" WALL
20	4	GALVANIZED ADJUSTABLE PIPE SUPPORT PER DETAIL B ON DWG M-5.
21	2	6" 90° BEND, FLANGED STEEL (SEE NOTE 1), 0.25" WALL
22	2	6" FLG. TEE, EPOXY LINED AND COATED STEEL, 0.25" WALL
23	2	6" BLIND FLANGE, CLASS E, WITH 2" THREADED OUTLET, EPOXY LINED AND COATED STEEL
24	2	6" FLG. x FLG. (LENGTH AS REQUIRED), FLANGED STEEL (SEE NOTE 1), 0.25" WALL
25	2	2" THREADED BALL VALVE, STAINLESS STEEL WITH STAINLESS STEEL THREADED NIPPLES, APOLLO BALL VALVE, OR EQUAL
26	2	2" AUTOMATIC COMBINATION AIR RELEASE AND AIR/VACUUM VALVE
27	2	2" PVC SCH 80 CLOSE NIPPLE AND 2" STREET ELLS AND SUCTION SCREEN
28	4	ABOVE GRADE FLANGE ISOLATION. SEE DETAIL 4 SHEET CP-3.

STEEL PIPE NOTES:

1. ALL BURIED STEEL PIPE SHALL HAVE 0.25" WALL THICKNESS AND SHALL BE TAPE WRAPPED AND MORTAR LINED AND COATED PER DISTRICT STANDARD SPECIFICATIONS 15061 AND 09810. EXPOSED PIPE SHALL BE EPOXY LINED AND EPOXY COATED. EPOXY LINING AND COATING SHALL BE 16 MILS MINIMUM AND BE HOLIDAY FREE PER NACE SP0188. BURIED PIPE AND FITTINGS SHALL BE CEMENT MORTAR LINED AND COATED WITH TAPE WRAP.
2. ALL STEEL PIPING WORK SHALL BE EXECUTED IN CONFORMANCE WITH WATER AGENCY STANDARDS.
3. ACCESSORY PIPING, TUBING, CONDUIT, AND OTHER COMPONENTS SHALL BE PROVIDED WITH SUITABLE MOUNTING CLIPS OR BRACKETS WITH ANCHOR BOLTS OF 316 STAINLESS STEEL.
4. BOND ALL BURIED STEEL MECHANICAL JOINTS PER DETAIL 3 ON DWG CP-2.
5. ALL EPOXY PAINT IN CONTACT WITH WATER SHALL BE NSF 61 CERTIFIED.
6. CLOSE ALL PIPE CHASES IN WALL WITH 3,000 PSI NON-SHRINK GROUT. ALL WALL SERVICES SHALL BE FINISHED SMOOTH AND EVEN.

PRESSURE REDUCING VALVE SET POINTS

VALVE SIZE	OUTLET PRESSURE	OUTLET HGL
2"	75 PSI	680 FT.
6"	70 PSI	669 FT.



RIBBON GUTTER DETAIL

NO SCALE

UTILITY NOTE

ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.

CITY "AS-BUILT"

(SIGNATURE) DATE

(PRINTED NAME) P.E. NO.:

MY REGISTRATION EXPIRES: DISCIPLINE

O.W.D. "AS-BUILT"

(SIGNATURE) DATE

(PRINTED NAME) P.E. NO.:

MY REGISTRATION EXPIRES: DISCIPLINE

OTAY WATER DISTRICT

PROJECT#: D1044-090422 W980, W711

PERMIT#: DEV-19-013 P.Z.: R815, R680

John Thayer Digitally signed by John Thayer Date: 2021.12.27 17:13:44 -08'00'

REVIEWED BY: DATE:

REGISTERED PROFESSIONAL ENGINEER DEXTER S. WILSON No. 33692 Exp. 6/30/2023 CIVIL STATE OF CALIFORNIA

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd
Contractor					
Inspector					
Date Completed					

BENCH MARK

DESCRIPTION : BRASS DISK MKD. "SD CITY ENGR." IN 3/4" IRON PIPE: 0.5 MI S'LY OF INTX LA MEDIA RD & BIRCH RD S/O SIDE OF GRAVEL RD 225'+/- W OF GATE TO A.V.R. TRACKING STA 15'+/- E OF METAL GATE.(PT # 13-4 PER R.O.S. 14841) ELEVATION = 520.425 (NAVD '88)

SCALE	
Horizontal	N/A
Vertical	N/A

Designed By	Drawn By	Checked By
DSW	DLW	DSW

Plans Prepared Under Supervision Of

Date 01-04-22

DEXTER S. WILSON R.C.E. No. 33692

Submitted By

Planning Land Arch

Approved By

Principal Civil Engineer

CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT

IMPROVEMENT PLANS FOR: MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS

815/680 RECYCLED WATER PRS MECHANICAL PLAN

Drawing No. 20041-04

W.O. No. OR6571

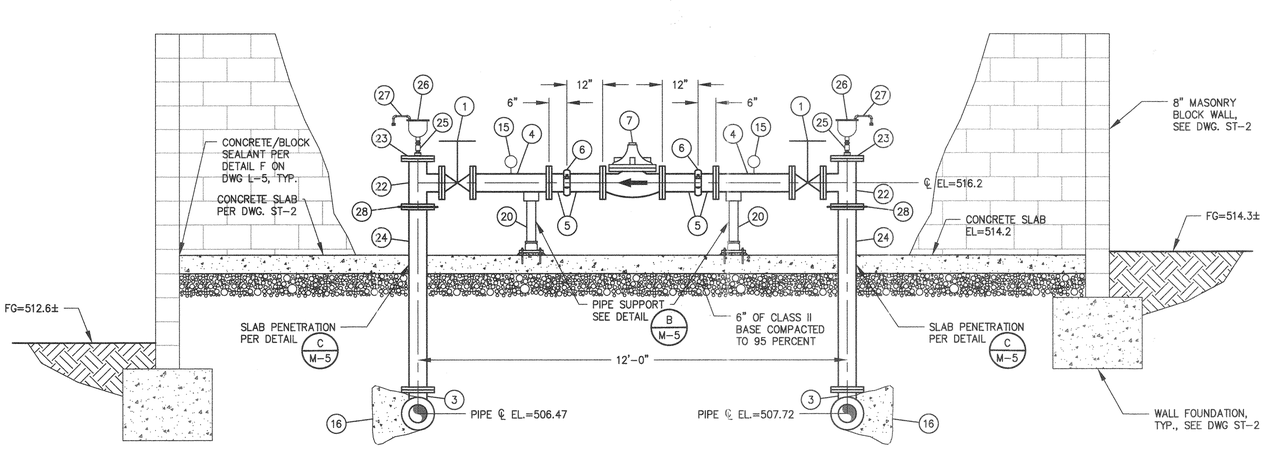
M-1

DEXTER WILSON ENGINEERING, INC.
CONSULTING ENGINEERS
2234 FARADAY AVENUE
CARLSBAD, CA 92008
(760) 438-4422

O.W.D. NO. D1044-090422
DEV-19-013

OTAY VILLAGE 8 WEST
MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS

\\ARTIC\DWG\6463B1\PRS\P2_980-711\V8WP2_04_MI_815-680RWPRS_PLAN.DWG 11-16-21 17:07:13 LAYOUT: 24X36



815/680 RECYCLED WATER PRESSURE REDUCING STATION SECTION

SCALE: 1/2" = 1'-0" (A M-1)

THRUST BLOCK TABLE

DESCRIPTION	TYPE OF BLOCK	TYPE OF APPURTENANCE	TEST PRESSURE	TOTAL THRUST	ASSUMED SOIL CAPACITY	AREA OF BLOCK
UPSTREAM / DOWNSTREAM OF 6" PRV	THRUST	6" x 6" x 6" TEE	250 PSI	9,348 LB	1,500 PSF	9.3 SF
UPSTREAM / DOWNSTREAM OF 2" PRV	THRUST	6" 90° BEND	250 PSI	13,220 LB	1,500 PSF	13.2 SF

MATERIAL LIST

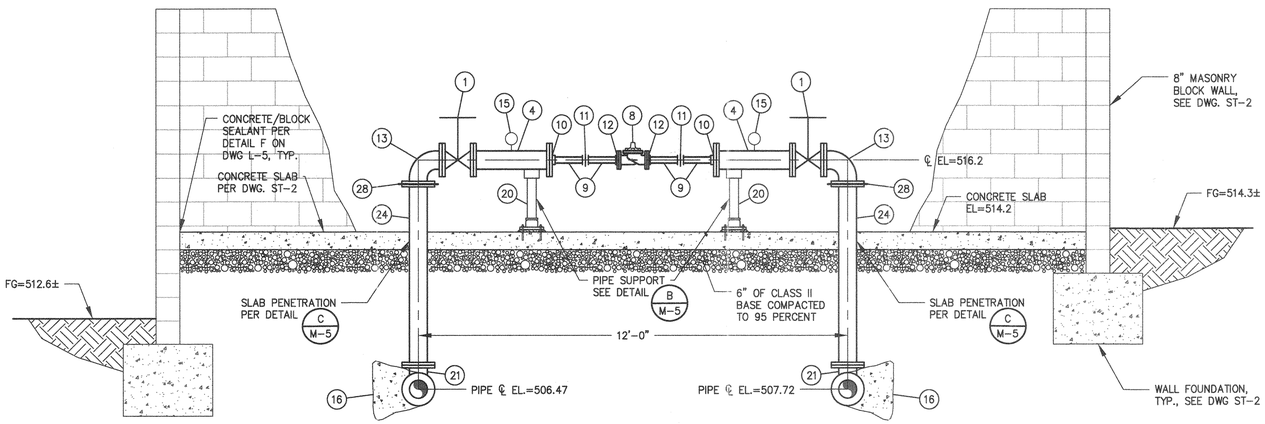
ITEM	QTY	DESCRIPTION
1	4	6" FLG. RESILIENT SEAT AWWA 509 GATE VALVE WITH 12" HANDWHEEL
2	2	8" SPOOL, PVC C900, DR14
3	2	6" TEE, FLANGED STEEL (SEE NOTE 1), 0.25" WALL
4	4	6" FLG SPOOL (LENGTH AS REQUIRED), EPOXY LINED AND COATED STEEL, MIN. 0.25" WALL
5	4	6" FLG. x SHOULDERED SPOOL (LENGTH AS REQUIRED), EPOXY LINED AND COATED STEEL, MIN. 0.25" WALL
6	2	6" STYLE 77 VICTAULIC COUPLING
7	1	6" FLG. GLOBE PATTERN PRESSURE REDUCING SUSTAINING 92 G-01 VALVE WITH X105L2W VALVE POSITION SWITCHES (CLOSED POSITION INDICATION ONLY), AND INSERTION FLOW METER WITH LOCAL DISPLAY. PROVIDE ISOLATION VALVE BETWEEN PILOT TUBING AND MAIN VALVE BODY.
8	1	2" FLG. GLOBE PATTERN PRESSURE REDUCING SUSTAINING 92 G-01 VALVE WITH X105L2W VALVE POSITION SWITCHES (CLOSED POSITION INDICATION ONLY), AND INSERTION FLOW METER WITH LOCAL DISPLAY. PROVIDE ISOLATION VALVE BETWEEN PILOT TUBING AND MAIN VALVE BODY.
9	6	2" 316 SS PIPE SPOOL, THREADED ENDS
10	2	2" x 6" THREADED COMPANION FLANGE, EPOXY LINED AND COATED STEEL
11	2	2" UNION COUPLING, 316 SS
12	2	2" COMPANION FLANGE, 316 SS
13	2	6" FLG. 90° BEND, EPOXY LINED AND COATED STEEL, 0.25" WALL
14	2	6" STEEL SPOOL (LENGTH AS REQUIRED), FLANGED (SEE NOTE 1), 0.25" WALL
15	4	PRESSURE GAUGE (4) WITH 2 TRANSMITTER CONNECTIONS PER DETAIL "A" ON DWG. M-5, PROVIDE PRESSURE GAUGES AT ALL FOUR LOCATIONS AND PRESSURE TRANSMITTERS AT TWO LOCATIONS ON THE 6-INCH LINE.
16	4	THRUST BLOCKS (SEE TABLE THIS SHEET)
17	2	8" RESTRAINED EBAA IRON SERIES 2000PV MEGALUG
18	2	8" x 6" FLG. ECCENTRIC REDUCER (FLAT ON TOP), FLANGED STEEL (SEE NOTE 1), 0.25" WALL
19	2	8" FLG. x FLG. SPOOL WITH FLG. x MJ. ADAPTER (LENGTH AS REQUIRED), FLANGED STEEL (SEE NOTE 1), 0.25" WALL
20	4	GALVANIZED ADJUSTABLE PIPE SUPPORT PER DETAIL B ON DWG M-5.
21	2	6" 90° BEND, FLANGED STEEL (SEE NOTE 1), 0.25" WALL
22	2	6" FLG. TEE, EPOXY LINED AND COATED STEEL, 0.25" WALL
23	2	6" BLIND FLANGE, CLASS E, WITH 2" THREADED OUTLET, EPOXY LINED AND COATED STEEL
24	2	6" FLG. x FLG. (LENGTH AS REQUIRED), FLANGED STEEL (SEE NOTE 1), 0.25" WALL
25	2	2" THREADED BALL VALVE, STAINLESS STEEL WITH STAINLESS STEEL THREADED NIPPLES, APOLLO BALL VALVE, OR EQUAL
26	2	2" AUTOMATIC COMBINATION AIR RELEASE AND AIR/VACUUM VALVE
27	2	2" PVC SCH 80 CLOSE NIPPLE AND 2" STREET ELLS AND SUCTION SCREEN
28	4	ABOVE GRADE FLANGE ISOLATION. SEE DETAIL 4 SHEET CP-3.

STEEL PIPE NOTES:

1. ALL BURIED STEEL PIPE SHALL HAVE 0.25" WALL THICKNESS AND SHALL BE TAPE WRAPPED AND MORTAR LINED AND COATED PER DISTRICT STANDARD SPECIFICATIONS 15061 AND 09810. EXPOSED PIPE SHALL BE EPOXY LINED AND EPOXY COATED. EPOXY LINING AND COATING SHALL BE 16 MILS MINIMUM AND BE HOLIDAY FREE PER NACE SP0188. BURIED PIPE AND FITTINGS SHALL BE CEMENT MORTAR LINED AND COATED WITH TAPE WRAP.
2. ALL STEEL PIPING WORK SHALL BE EXECUTED IN CONFORMANCE WITH WATER AGENCY STANDARDS.
3. ACCESSORY PIPING, TUBING, CONDUIT, AND OTHER COMPONENTS SHALL BE PROVIDED WITH SUITABLE MOUNTING CLIPS OR BRACKETS WITH ANCHOR BOLTS OF 316 STAINLESS STEEL.
4. BOND ALL BURIED STEEL MECHANICAL JOINTS PER DETAIL 3 ON DWG CP-2.
5. ALL EPOXY PAINT IN CONTACT WITH WATER SHALL BE NSF 61 CERTIFIED.
6. CLOSE ALL PIPE CHASES IN WALL WITH 3,000 PSI NON-SHRINK GROUT. ALL WALL SERVICES SHALL BE FINISHED SMOOTH AND EVEN.

PRESSURE REDUCING VALVE SET POINTS

VALVE SIZE	OUTLET PRESSURE	OUTLET HGL
2"	75 PSI	680 FT.
6"	70 PSI	669 FT.



815/680 RECYCLED WATER PRESSURE REDUCING STATION SECTION

SCALE: 1/2" = 1'-0" (B M-1)

UTILITY NOTE

ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.

CITY "AS-BUILT"

(SIGNATURE) DATE

(PRINTED NAME) P.E. NO.:

MY REGISTRATION EXPIRES: DISCIPLINE

O.W.D. "AS-BUILT"

(SIGNATURE) DATE

(PRINTED NAME) P.E. NO.:

MY REGISTRATION EXPIRES: DISCIPLINE

OTAY WATER DISTRICT

PROJECT#: D1044-090422 W980, W711

PERMIT#: DEV-19-013 P.Z.: R815, R680

John Thayer Digitally signed by John Thayer Date: 2021.12.27 17:14:00-08'00'

REVIEWED BY: DATE:

REGISTERED PROFESSIONAL ENGINEER DEXTER S. WILSON No. 33692 Exp. 6/30/2022 CIVIL STATE OF CALIFORNIA

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd
Contractor					
Inspector					
Date Completed					

BENCH MARK

DESCRIPTION : BRASS DISK MKD. "SD CITY ENGR." IN 3/4" IRON PIPE 0.5 MI S'LY OF INTX LA MEDIA RD & BIRCH RD S'D SIDE OF GRAVEL RD 225'+/- W OF GATE TO A.V.R.'RACKING STA 15'+/- E OF METAL GATE.(PT # 13-4 PER R.O.S. 14841) ELEVATION = 520.425 (NAVD '88)

SCALE: Horizontal N/A; Vertical N/A

Designed By	Drawn By	Checked By
DSW	DLW	DSW

Plans Prepared Under Supervision Of

DEXTER S. WILSON Date 01-04-22 R.C.E. No. 33692

Submitted By

Planning Land Arch

Approved By

Principal Civil Engineer

CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT

IMPROVEMENT PLANS FOR: MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS

815/680 RECYCLED WATER PRS MECHANICAL SECTION

Drawing No. 20041-05

W.O. No. OR6571

O.W.D. NO. D1044-090422
DEV-19-013

M-2

DEXTER WILSON ENGINEERING, INC.
CONSULTING ENGINEERS
2234 FARADAY AVENUE
CARLSBAD, CA 92008
(760) 438-4422

OTAY VILLAGE 8 WEST
MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS

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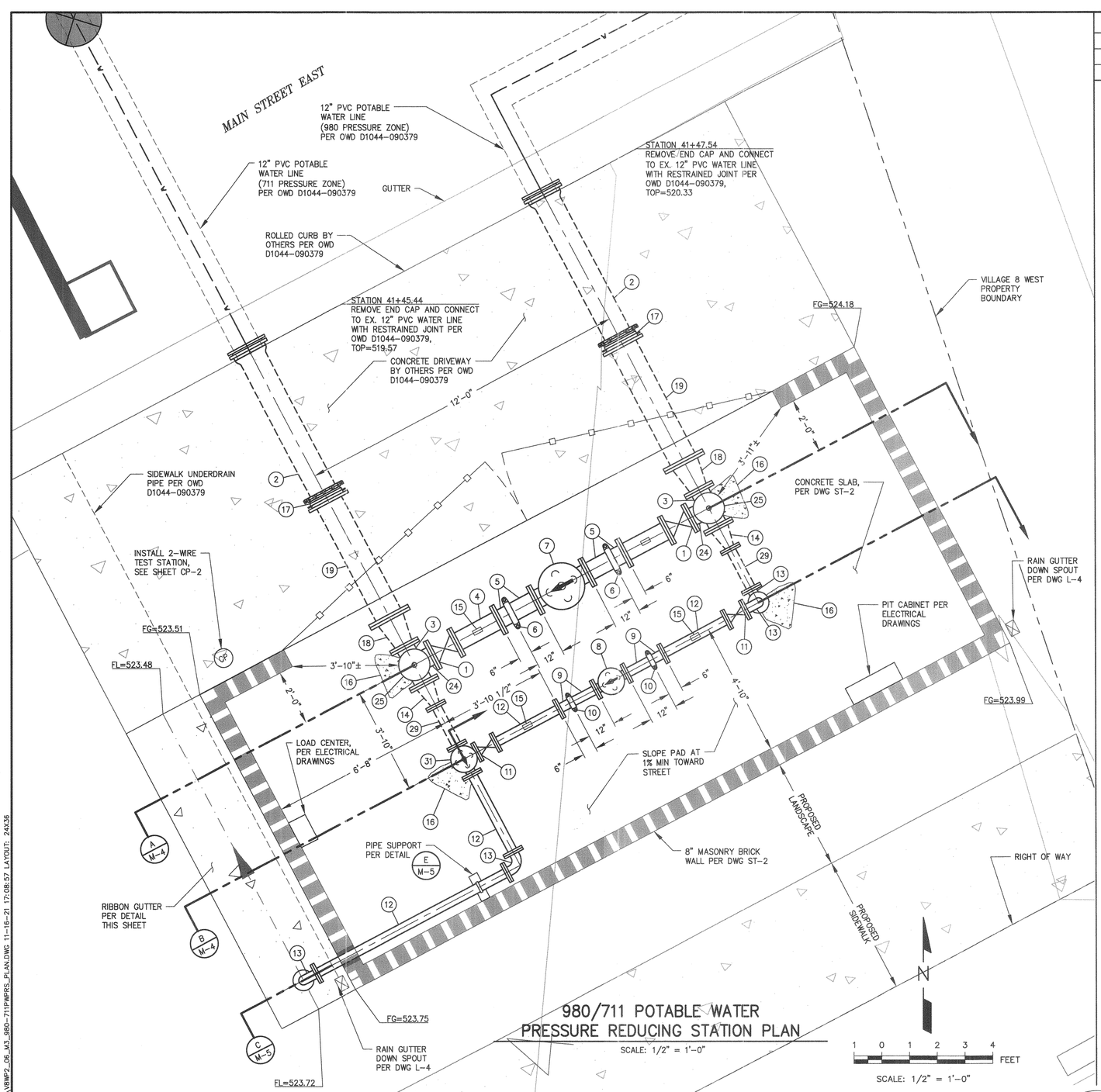


980/711 POTABLE WATER PRESSURE REDUCING STATION PLAN

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

THRUST BLOCK TABLE

DESCRIPTION	TYPE OF BLOCK	TYPE OF APPURTENANCE	TEST PRESSURE	TOTAL THRUST	ASSUMED SOIL CAPACITY	AREA OF BLOCK
UPSTREAM / DOWNSTREAM OF 8" PRV	THRUST	8" x 8" x 8" TEE	250 PSI	16,082 LB	1,500 PSF	16.1 SF
UPSTREAM / DOWNSTREAM OF 4" PRV	THRUST	4" 90° BEND	250 PSI	6,398 LB	1,500 PSF	6.4 SF

MATERIAL LIST

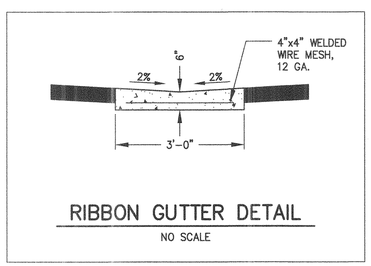
ITEM	QTY	DESCRIPTION
1	2	8" FLG. AWWA C509 RESILIENT SEAT GATE VALVE WITH 12" HANDWHEEL
2	2	12" SPOOL, PVC C900, DR14
3	2	8" x 8" x 8" TEE, FLANGED STEEL (SEE NOTE 1), 0.25" WALL
4	2	8" FLG. SPOOL (LENGTH AS REQUIRED), EPOXY LINED AND COATED STEEL, 0.25" WALL
5	4	8" FLG. x SHOULDERED SPOOL (LENGTH AS REQUIRED), EPOXY LINED AND COATED STEEL, MIN. 0.25" WALL
6	2	8" STYLE 77 VICTAULIC COUPLING
7	1	8" FLG. GLOBE PATTERN PRESSURE REDUCING/SUSTAINING 92 G-01 VALVE CAST STEEL SLEEVE CLASS 150 (285 PSI RATED WORKING PRESSURE) WITH X105L2W VALVE POSITION SWITCHES (CLOSED POSITION INDICATION ONLY), INSERTION FLOW METER WITH LOCAL DISPLAY, VALVE POSITION INDICATOR, AND ISOLATION VALVES BETWEEN MAIN VALVE BODY AND PILOT TUBING.
8	1	4" FLG. GLOBE PATTERN PRESSURE REDUCING/SUSTAINING 92 G-01 VALVE CAST STEEL SLEEVE CLASS 150 (285 PSI RATED WORKING PRESSURE) WITH X105L2W VALVE POSITION SWITCHES (CLOSED POSITION INDICATION ONLY), INSERTION FLOW METER WITH LOCAL DISPLAY, VALVE POSITION INDICATOR, AND ISOLATION VALVES BETWEEN MAIN VALVE BODY AND PILOT TUBING.
9	4	4" FLG. x SHOULDERED SPOOL (LENGTH AS REQUIRED), EPOXY LINED AND COATED STEEL, MIN. 0.25" WALL
10	2	4" STYLE 77 VICTAULIC COUPLING
11	3	4" FLG. AWWA C509 RESILIENT SEAT GATE VALVE WITH 12" HANDWHEEL
12	3	4" FLG. SPOOL (LENGTH AS REQUIRED), EPOXY LINED AND COATED STEEL, 0.25" WALL
13	2	4" FLG. 90° BEND, EPOXY LINED AND COATED STEEL, 0.25" WALL
14	2	8" x 4" ECCENTRIC REDUCER (FLAT ON TOP), FLANGED STEEL (SEE NOTE 1), 0.25" WALL
15	4	PRESSURE GAUGE (4) WITH 2 TRANSMITTER CONNECTIONS PER DETAIL A ON DWG. M-5, PROVIDE PRESSURE GAUGES AT ALL FOUR LOCATIONS AND PRESSURE TRANSMITTERS AT TWO LOCATIONS ON THE 8-INCH LINE.
16	4	THRUST BLOCKS (SEE TABLE THIS SHEET)
17	2	12" RESTRAINED EBAA IRON SERIES 2000PV MEGALUG
18	2	12" x 8" ECCENTRIC REDUCER (FLAT ON TOP), FLANGED STEEL (SEE NOTE 1), 0.25" WALL
19	2	12" FLG. x PLAIN END SPOOL WITH FLG. x MJ. ADAPTER (LENGTH AS REQUIRED), FLANGED STEEL (SEE NOTE 1), 0.25" WALL
20	4	GALVANIZED ADJUSTABLE PIPE SUPPORT, PER DETAIL B ON DWG. M-5
21	2	4" 90° BEND, FLANGED STEEL (SEE NOTE 1), 0.25" WALL
22	2	8" FLG. x FLG. SPOOL (LENGTH AS REQUIRED), FLANGED STEEL (SEE NOTE 1), 0.25" WALL
23	2	4" FLG. x FLG. SPOOL (LENGTH AS REQUIRED), FLANGED STEEL (SEE NOTE 1), 0.25" WALL
24	2	8" FLG. TEE, EPOXY LINED AND COATED STEEL, 0.25" WALL
25	2	8" BLIND FLANGE, CLASS E, WITH 2" THREADED OUTLET, EPOXY LINED AND COATED STEEL
26	2	2" THREADED BALL VALVE, STAINLESS STEEL WITH STAINLESS STEEL THREADED NIPPLES, APOLLO BALL VALVE, OR EQUAL
27	2	2" AUTOMATIC COMBINATION AIR RELEASE AND AIR/VACUUM VALVE
28	2	2" PVC SCH 80 CLOSE NIPPLE AND 2" STREET ELLS AND SUCTION SCREEN
29	2	4" SPOOL (LENGTH AS REQUIRED), FLANGED STEEL (SEE NOTE 1), 0.25" WALL
30	4	ABOVE GRADE FLANGE ISOLATION. SEE DETAIL 4 SHEET CP-3.
31	1	4" FLG. ANGLE PATTERN PRESSURE RELIEF 50 G-01 VALVE WITH X105L2W VALVE POSITION SWITCHES (CLOSED POSITION INDICATION ONLY)
32	1	4" FLG. TEE, EPOXY LINED AND COATED STEEL, 0.25" WALL
33	1	4" FLG. x FLG. SPOOL (LENGTH AS REQUIRED), EPOXY LINED AND COATED STEEL, 0.25" WALL
34	1	4" FLANGED DUCKBILL CHECK VALVE, CLA-VAL RF-DBF

STEEL PIPE NOTES:

1. ALL BURIED STEEL PIPE SHALL HAVE 0.25" WALL THICKNESS AND SHALL BE TAPE WRAPPED AND MORTAR LINED AND COATED PER DISTRICT STANDARD SPECIFICATIONS 15061 AND 09810. EXPOSED PIPE SHALL BE EPOXY LINED AND EPOXY COATED. EPOXY LINING AND COATING SHALL BE 16 MILS MINIMUM AND BE HOLIDAY FREE PER NACE SP0188. BURIED PIPE AND FITTINGS SHALL BE CEMENT MORTAR LINED AND COATED WITH TAPE WRAP.
2. ALL STEEL PIPING WORK SHALL BE EXECUTED IN CONFORMANCE WITH WATER AGENCY STANDARDS.
3. ACCESSORY PIPING, TUBING, CONDUIT, AND OTHER COMPONENTS SHALL BE PROVIDED WITH SUITABLE MOUNTING CLIPS OR BRACKETS WITH ANCHOR BOLTS OF 316 STAINLESS STEEL.
4. BOND ALL BURIED STEEL MECHANICAL JOINTS PER DETAIL 3 ON DWG CP-2.
5. ALL EPOXY PAINT IN CONTACT WITH WATER SHALL BE NSF 61 CERTIFIED.
6. CLOSE ALL PIPE CHASES IN WALL WITH 3,000 PSI NON-SHRINK GROUT. ALL WALL SERVICES SHALL BE FINISHED SMOOTH AND EVEN.

PRESSURE REDUCING VALVE SET POINTS

VALVE SIZE	OUTLET PRESSURE	OUTLET HGL
4"	82 PSI	711 FT.
8"	72 PSI	700 FT.



RIBBON GUTTER DETAIL

NO SCALE

UTILITY NOTE

ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.

CITY "AS-BUILT"

(SIGNATURE) DATE

(PRINTED NAME) P.E. NO.:

MY REGISTRATION EXPIRES: DISCIPLINE

O.W.D. "AS-BUILT"

(SIGNATURE) DATE

(PRINTED NAME) P.E. NO.:

MY REGISTRATION EXPIRES: DISCIPLINE

OTAY WATER DISTRICT

PROJECT#: D1044-090422 W980, W711

PERMIT#: DEV-19-013 P.Z.: R815, R680

John Thayer Digitally signed by John Thayer Date: 2021.12.27 17:14:29-08'00'

REVIEWED BY: DATE:

REGISTERED PROFESSIONAL ENGINEER DEXTER S. WILSON No. 33692 CIVIL STATE OF CALIFORNIA

M-3

DEXTER WILSON ENGINEERING, INC.
CONSULTING ENGINEERS
2234 FARADAY AVENUE
CARLSBAD, CA 92008
(760) 438-4422

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd
Contractor					
Inspector					
Date Completed					

BENCH MARK

DESCRIPTION: BRASS DISK MKD. "SD CITY ENGR." IN 3/4" IRON PIPE 0.5 MI S'LY OF INTX LA MEDIA RD & BIRCH RD S'LY SIDE OF GRAVEL RD 225'+- W OF GATE TO A.V.R.T.RANCHING STA 15'+- E OF METAL GATE.(PT # 1344 PER R.O.S. 14841) ELEVATION = 520.425 (NAVD '88)

SCALE	Designed By	Drawn By	Checked By
Horizontal N/A	DSW	DLW	DSW
Vertical N/A	Plans Prepared Under Supervision Of DEXTER S. WILSON	Date 01-04-22	R.C.E. No. 33692

Submitted By Planning Land Arch

Approved By Principal Civil Engineer

CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT

IMPROVEMENT PLANS FOR: MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS

980/711 POTABLE WATER PRS MECHANICAL PLAN

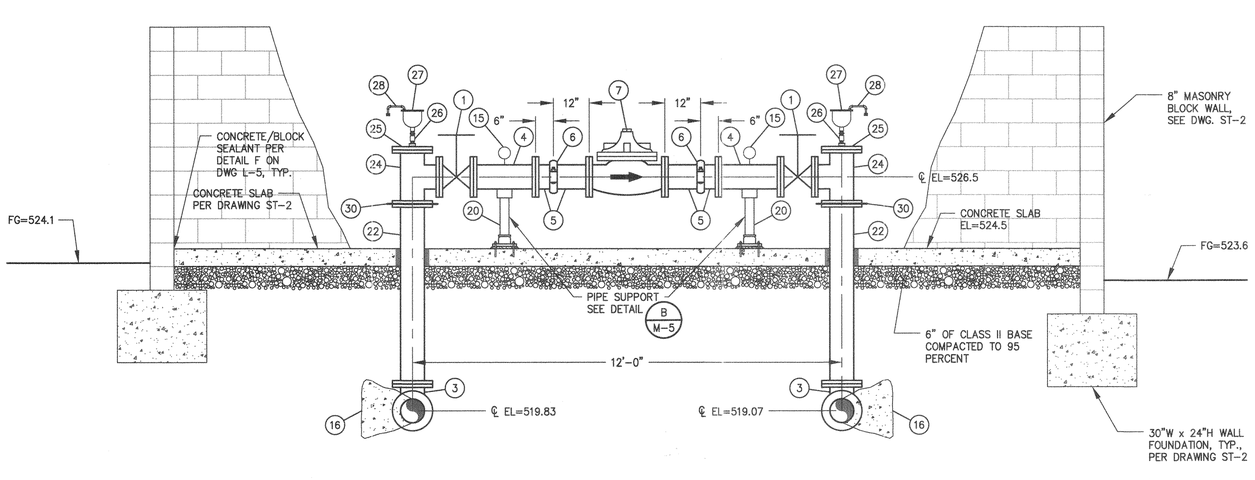
Drawing No. 20041-06

W.O. No. OR6571

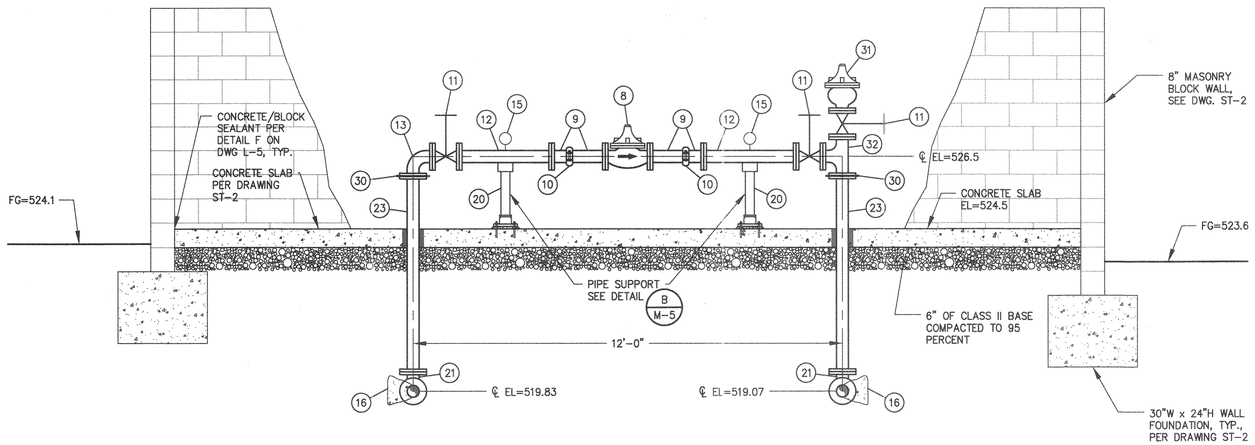
O.W.D. NO. D1044-090422
DEV-19-013

OTAY VILLAGE 8 WEST
MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS

\\ARTIC\DWG\646381\PRS\P2_980-711\VBWP2_06_M3_980-711PWPRS_PLAN.DWG 11-16-21 17:08:57 LAYOUT: 24X36



980/711 POTABLE WATER
PRESSURE REDUCING STATION SECTION (A / M-3)
SCALE: 1/2" = 1'-0"



980/711 POTABLE WATER
PRESSURE REDUCING STATION SECTION (B / M-3)
SCALE: 1/2" = 1'-0"

THRUST BLOCK TABLE

DESCRIPTION	TYPE OF BLOCK	TYPE OF APPURTENANCE	TEST PRESSURE	TOTAL THRUST	ASSUMED SOIL CAPACITY	AREA OF BLOCK
UPSTREAM / DOWNSTREAM OF 8" PRV	THRUST	8" x 8" x 8" TEE	250 PSI	16,082 LB	1,500 PSF	16.1 SF
UPSTREAM / DOWNSTREAM OF 4" PRV	THRUST	4" 90° BEND	250 PSI	6,398 LB	1,500 PSF	6.4 SF

MATERIAL LIST

ITEM	QTY	DESCRIPTION
1	2	8" FLG. AWWA C509 RESILIENT SEAT GATE VALVE WITH 12" HANDWHEEL
2	2	12" SPOOL, PVC C900, DR14
3	2	8" x 8" x 8" TEE, FLANGED STEEL (SEE NOTE 1), 0.25" WALL
4	2	8" FLG. SPOOL (LENGTH AS REQUIRED), EPOXY LINED AND COATED STEEL, 0.25" WALL
5	4	8" FLG. x SHOULDERED SPOOL (LENGTH AS REQUIRED), EPOXY LINED AND COATED STEEL, MIN. 0.25" WALL
6	2	8" STYLE 77 VICTAULIC COUPLING
7	1	8" FLG. GLOBE PATTERN PRESSURE REDUCING/SUSTAINING 92 G-01 VALVE CAST STEEL SLEEVE CLASS 150 (285 PSI RATED WORKING PRESSURE) WITH X105L2W VALVE POSITION SWITCHES (CLOSED POSITION INDICATION ONLY), INSERTION FLOW METER WITH LOCAL DISPLAY, VALVE POSITION INDICATOR, AND ISOLATION VALVES BETWEEN MAIN VALVE BODY AND PILOT TUBING.
8	1	4" FLG. GLOBE PATTERN PRESSURE REDUCING/SUSTAINING 92 G-01 VALVE CAST STEEL SLEEVE CLASS 150 (285 PSI RATED WORKING PRESSURE) WITH X105L2W VALVE POSITION SWITCHES (CLOSED POSITION INDICATION ONLY), INSERTION FLOW METER WITH LOCAL DISPLAY, VALVE POSITION INDICATOR, AND ISOLATION VALVES BETWEEN MAIN VALVE BODY AND PILOT TUBING.
9	4	4" FLG. x SHOULDERED SPOOL (LENGTH AS REQUIRED), EPOXY LINED AND COATED STEEL, MIN. 0.25" WALL
10	2	4" STYLE 77 VICTAULIC COUPLING
11	3	4" FLG. AWWA C509 RESILIENT SEAT GATE VALVE WITH 12" HANDWHEEL
12	3	4" FLG. SPOOL (LENGTH AS REQUIRED), EPOXY LINED AND COATED STEEL, 0.25" WALL
13	2	4" FLG. 90° BEND, EPOXY LINED AND COATED STEEL, 0.25" WALL
14	2	8" x 4" ECCENTRIC REDUCER (FLAT ON TOP), FLANGED STEEL (SEE NOTE 1), 0.25" WALL
15	4	PRESSURE GAUGE (4) WITH 2 TRANSMITTER CONNECTIONS PER DETAIL A ON DWG. M-5, PROVIDE PRESSURE GAUGES AT ALL FOUR LOCATIONS AND PRESSURE TRANSMITTERS AT TWO LOCATIONS ON THE 8-INCH LINE.
16	4	THRUST BLOCKS (SEE TABLE THIS SHEET)
17	2	12" RESTRAINED EBAA IRON SERIES 2000PV MEGALUG
18	2	12" x 8" ECCENTRIC REDUCER (FLAT ON TOP), FLANGED STEEL (SEE NOTE 1), 0.25" WALL
19	2	12" FLG. x PLAIN END SPOOL WITH FLG. x MJ. ADAPTER (LENGTH AS REQUIRED), FLANGED STEEL (SEE NOTE 1), 0.25" WALL
20	4	GALVANIZED ADJUSTABLE PIPE SUPPORT, PER DETAIL B ON DWG. M-5
21	2	4" 90° BEND, FLANGED STEEL (SEE NOTE 1), 0.25" WALL
22	2	8" FLG. x FLG. SPOOL (LENGTH AS REQUIRED), FLANGED STEEL (SEE NOTE 1), 0.25" WALL
23	2	4" FLG. x FLG. SPOOL (LENGTH AS REQUIRED), FLANGED STEEL (SEE NOTE 1), 0.25" WALL
24	2	8" FLG. TEE, EPOXY LINED AND COATED STEEL, 0.25" WALL
25	2	8" BLIND FLANGE, CLASS E, WITH 2" THREADED OUTLET, EPOXY LINED AND COATED STEEL
26	2	2" THREADED BALL VALVE, STAINLESS STEEL WITH STAINLESS STEEL THREADED NIPPLES, APOLLO BALL VALVE, OR EQUAL
27	2	2" AUTOMATIC COMBINATION AIR RELEASE AND AIR/VACUUM VALVE
28	2	2" PVC SCH 80 CLOSE NIPPLE AND 2" STREET ELLS AND SUCTION SCREEN
29	2	4" SPOOL (LENGTH AS REQUIRED), FLANGED STEEL (SEE NOTE 1), 0.25" WALL
30	4	ABOVE GRADE FLANGE ISOLATION. SEE DETAIL 4 SHEET CP-3.
31	1	4" FLG. ANGLE PATTERN PRESSURE RELIEF 50 G-01 VALVE WITH X105L2W VALVE POSITION SWITCHES (CLOSED POSITION INDICATION ONLY)
32	1	4" FLG. TEE, EPOXY LINED AND COATED STEEL, 0.25" WALL
33	1	4" FLG. x FLG. SPOOL (LENGTH AS REQUIRED), EPOXY LINED AND COATED STEEL, 0.25" WALL
34	1	4" FLANGED DUCKBILL CHECK VALVE, CLA-VAL RF-DBF

STEEL PIPE NOTES:

1. ALL BURIED STEEL PIPE SHALL HAVE 0.25" WALL THICKNESS AND SHALL BE TAPE WRAPPED AND MORTAR LINED AND COATED PER DISTRICT STANDARD SPECIFICATIONS 15061 AND 09810. EXPOSED PIPE SHALL BE EPOXY LINED AND EPOXY COATED. EPOXY LINING AND COATING SHALL BE 16 MILS MINIMUM AND BE HOLIDAY FREE PER NACE SP0188. BURIED PIPE AND FITTINGS SHALL BE CEMENT MORTAR LINED AND COATED WITH TAPE WRAP.
2. ALL STEEL PIPING WORK SHALL BE EXECUTED IN CONFORMANCE WITH WATER AGENCY STANDARDS.
3. ACCESSORY PIPING, TUBING, CONDUIT, AND OTHER COMPONENTS SHALL BE PROVIDED WITH SUITABLE MOUNTING CLIPS OR BRACKETS WITH ANCHOR BOLTS OF 316 STAINLESS STEEL.
4. BOND ALL BURIED STEEL MECHANICAL JOINTS PER DETAIL 3 ON DWG CP-2.
5. ALL EPOXY PAINT IN CONTACT WITH WATER SHALL BE NSF 61 CERTIFIED.
6. CLOSE ALL PIPE CHASES IN WALL WITH 3,000 PSI NON-SHRINK GROUT. ALL WALL SERVICES SHALL BE FINISHED SMOOTH AND EVEN.

PRESSURE REDUCING VALVE SET POINTS

VALVE SIZE	OUTLET PRESSURE	OUTLET HGL
4"	82 PSI	711 FT.
8"	72 PSI	700 FT.

OTAY VILLAGE 8 WEST
MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS

M-4

UTILITY NOTE

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CITY "AS-BUILT"

(SIGNATURE) DATE
(PRINTED NAME) P.E. NO.:
MY REGISTRATION EXPIRES: DISCIPLINE

O.W.D. "AS-BUILT"

(SIGNATURE) DATE
(PRINTED NAME) P.E. NO.:
MY REGISTRATION EXPIRES: DISCIPLINE

OTAY WATER DISTRICT

PROJECT#: D1044-090422
PERMIT#: DEV-19-013 P.Z.: W980, W711 R815, R680
John Thayer Digitally signed by John Thayer Date: 2021.12.27 17:14:37-08'00'
REVIEWED BY: DATE:

REGISTERED PROFESSIONAL ENGINEER DEXTER S. WILSON No. 33692 CIVIL STATE OF CALIFORNIA EXP. 6-30-2022

DEXTER WILSON ENGINEERING, INC.
CONSULTING ENGINEERS
2234 FARADAY AVENUE
CARLSBAD, CA 92008
(760) 438-4422

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd
Contractor					
Inspector					
Date Completed					

BENCH MARK
DESCRIPTION : BRASS DISK MKD. "SD CITY ENGR." IN 3/4" IRON PIPE, 0.5 MI S'LY OF INTX LA MEDIA RD & BIRCH RD S/O SIDE OF GRAVEL RD 225'+- W OF GATE TO A.V.R. TRACKING STA 15'+- E OF METAL GATE.(PT # 13+4 PER R.O.S. 14841) ELEVATION = 520.425 (NAVD '88)

SCALE
Horizontal N/A
Vertical N/A

Designed By DSW | Drawn By DLW | Checked By DSW
Plans Prepared Under Supervision Of
DEXTER S. WILSON Date 01-04-22 R.C.E. No. 33692

Submitted By
Planning | Land Arch

Approved By
Principal Civil Engineer

CITY OF CHULA VISTA — DEVELOPMENT SERVICES DEPARTMENT
IMPROVEMENT PLANS FOR: MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS
980/711 POTABLE WATER PRS MECHANICAL SECTION

Drawing No. 20041-07
W.O. No. OR657I

O.W.D. NO. D1044-090422
DEV-19-013

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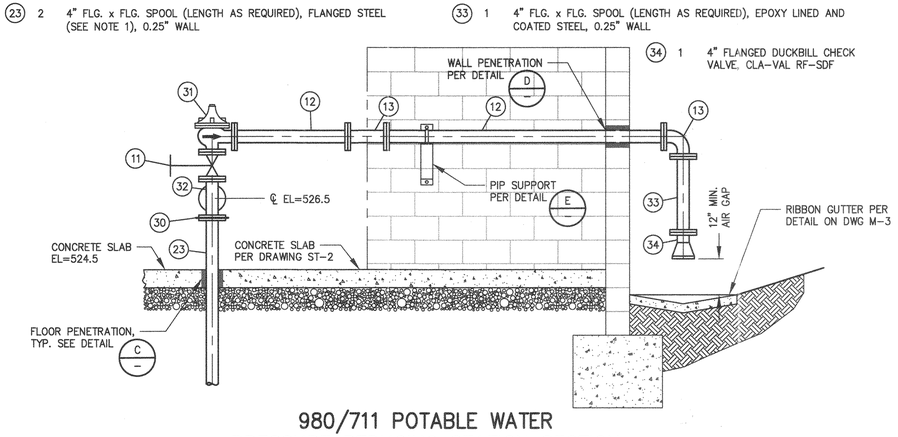
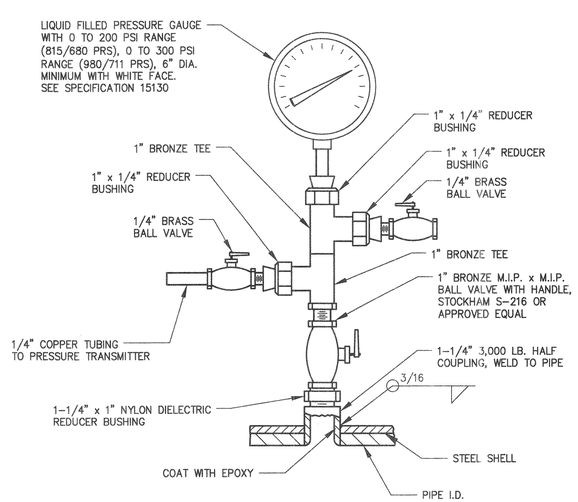
MATERIAL LIST

ITEM	QTY	DESCRIPTION
(11)	3	4" FLG. AWWA C509 RESILIENT SEAT GATE VALVE WITH 12" HANDWHEEL
(12)	3	4" FLG. SPOOL (LENGTH AS REQUIRED), EPOXY LINED AND COATED STEEL, 0.25" WALL
(13)	2	4" FLG. 90° BEND, EPOXY LINED AND COATED STEEL, 0.25" WALL
(23)	2	4" FLG. x FLG. SPOOL (LENGTH AS REQUIRED), FLANGED STEEL (SEE NOTE 1), 0.25" WALL
(30)	4	ABOVE GRADE FLANGE ISOLATION. SEE DETAIL 4 SHEET CP-3.
(31)	1	4" FLG. ANGLE PATTERN PRESSURE RELIEF VALVE CLA-VAL 50A-01BPKCX D/S WITH X105L2W VALVE POSITION SWITCHES (CLOSED POSITION INDICATION ONLY)
(32)	1	4" FLG. TEE, EPOXY LINED AND COATED STEEL, 0.25" WALL
(33)	1	4" FLG. x FLG. SPOOL (LENGTH AS REQUIRED), EPOXY LINED AND COATED STEEL, 0.25" WALL
(34)	1	4" FLANGED DUCKBILL CHECK VALVE, CLA-VAL RF-SDF

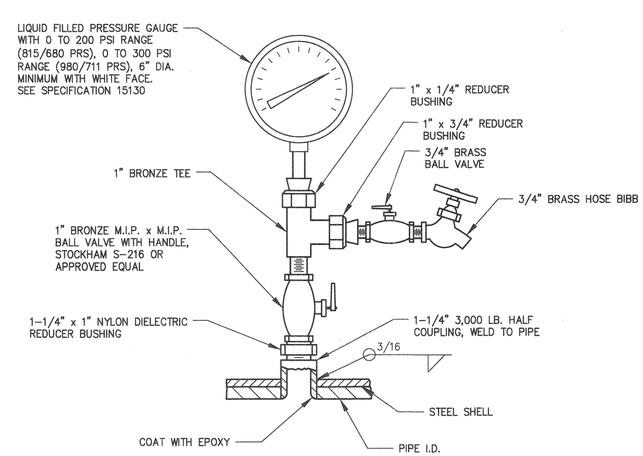


980/711 POTABLE WATER PRESSURE REDUCING STATION SECTION (C / M-3)

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



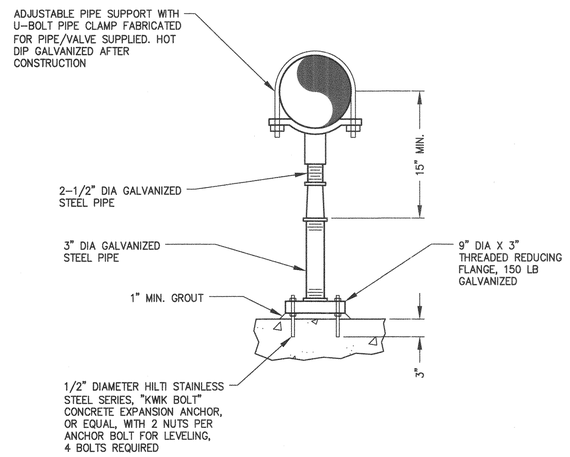
GAUGES WITH PRESSURE TRANSMITTER



GAUGES WITHOUT PRESSURE TRANSMITTER

PRESSURE GAUGE DETAILS (A / VAR)

NO SCALE



PIPE SUPPORT DETAIL (B / VAR)

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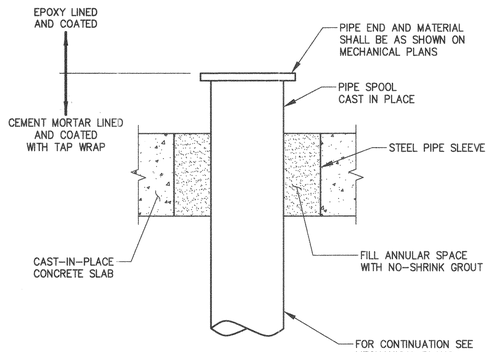
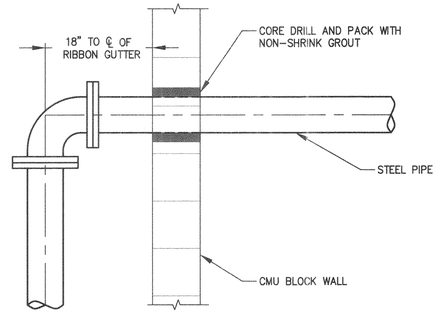


FLOOR PENETRATION DETAIL (C / VAR)

NO SCALE



WALL PENETRATION DETAIL (D / -)

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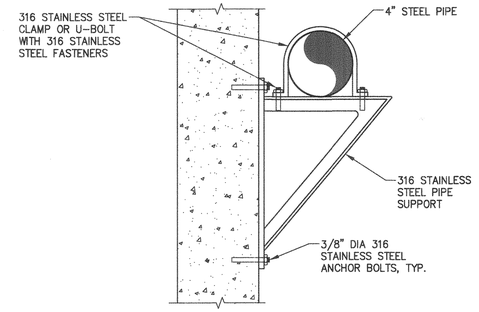

PIPE SUPPORT DETAIL (E / -)

NO SCALE

M-5

UTILITY NOTE

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(SIGNATURE) DATE

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O.W.D. "AS-BUILT"

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OTAY WATER DISTRICT

PROJECT#: D1044-090422

PERMIT#: DEV-19-013 P.Z.: W980, W711 R815, R680

John Thayer Digitally signed by John Thayer Date: 2021.12.27 17:14:55-08'00'

REVIEWED BY: DATE:

REGISTERED PROFESSIONAL ENGINEER DEXTER S. WILSON No. 33692 Exp. 6/30/22 CIVIL STATE OF CALIFORNIA

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(760) 438-4422

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SCALE: Horizontal N/A; Vertical N/A

Designed By	Drawn By	Checked By
DSW	DLW	DSW

Plans Prepared Under Supervision Of Date 01-04-22

DEXTER S. WILSON R.C.E. No. 33692

Submitted By

Planning | Land Arch

Approved By

Principal Civil Engineer

CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT

IMPROVEMENT PLANS FOR: MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS

MECHANICAL DETAILS

Drawing No. 20041-08

W.O. No. OR6571

O.W.D. NO. D1044-090422
DEV-19-013

OTAY VILLAGE 8 WEST
MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS

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CONDUIT PLAN	SINGLE LINE DIAGRAM	SCHEMATIC DIAGRAM	DESCRIPTION
	50A 3P		CIRCUIT BREAKER. UPPER NUMBER IS TRIP RATING. LOWER NUMBER IS NUMBER OF POLES
■			THREE POSITION SWITCH. MAINTAINED CONTACT FUNCTION MAY VARY AS NOTED ON DIAGRAMS. CENTER POSITION IS OFF
■			TWO POSITION SWITCH. MAINTAINED CONTACT FUNCTION MAY VARY AS NOTED ON DIAGRAMS
■			MOMENTARY CONTACT PUSHBUTTON. FUNCTION MAY VARY AS NOTED ON DIAGRAMS
■ LOS		LOS	MOMENTARY CONTACT PUSHBUTTON WITH PROVISION FOR LOCKOUT.
□			LOCKABLE DISCONNECT SWITCH. RATING AND DETAILS AS NOTED ON DRAWINGS.
■ ZS			LIMIT SWITCH. NORMALLY OPEN
■ ZS			LIMIT SWITCH. NORMALLY CLOSED
		NOTO	TIME DELAY RELAY CONTACT. OFF DELAY, NORMALLY OPEN, TIME OPEN
		NCTC	TIME DELAY RELAY CONTACT. OFF DELAY, NORMALLY CLOSED, TIME CLOSED
		NOTC	TIME DELAY RELAY CONTACT. ON DELAY, NORMALLY OPEN, TIME CLOSED
		NCTO	TIME DELAY RELAY CONTACT. ON DELAY, NORMALLY CLOSED, TIME OPEN
■ SOV			SOLENOID OPERATED VALVE
			MOTOR CONTROL CENTER DRAWOUT STABS
⊠	2		MOTOR STARTER WITH THERMAL OVERLOADS. NUMBER INDICATES NEMA SIZE
		OL	MOTOR OVERLOAD CONTACT
(2)	(2)	(2)	MOTOR, NUMBER INDICATES HORSEPOWER
			INDICATING LIGHT, PUSH-TO-TEST. LETTER INDICATES COLOR. R=RED B=BLUE G=GREEN A=AMBER W=WHITE
		(M)	CONTACTOR OR RELAY COIL. LETTER OR NUMBER IS DESIGNATION
		M	NORMALLY CLOSED CONTACT. LETTER OR NUMBER IS DESIGNATION
		M	NORMALLY OPEN CONTACT. LETTER OR NUMBER IS DESIGNATION
		(RTM)	RUNNING TIME METER, NON-RESETTABLE
	20A	5A	FUSE, NUMBER INDICATES RATING
			CONTROL TRANSFORMER. RATING AS NOTED ON DRAWINGS OR AS REQUIRED BASED ON LOAD SERVED.
	(KW)		KILOWATT METER
■ PS			PRESSURE SWITCH. CONTACT ACTION AS NOTED ON DRAWINGS

CONDUIT PLAN	SINGLE LINE DIAGRAM	SCHEMATIC DIAGRAM	DESCRIPTION
T			POWER TRANSFORMER. RATINGS AS NOTED ON DRAWINGS
			DUPLEX RECEPTACLE. 20A, SPEC GRADE GROUNDING TYPE. UNLESS OTHERWISE NOTED ON DRAWINGS.
			TELEPHONE OUTLET
(J)			JUNCTION BOX OR CONDUIT FITTING AS NOTED OR REQUIRED. (SHOWN WITH CONDUIT TURNING UP)
■ LS			LEVEL SWITCH, CONTACT ACTION AS NOTED ON DRAWINGS
			CONTROL PANEL OR EQUIPMENT AS NOTED
■ FS			FLOW SWITCH, CONTACT ACTION AS NOTED ON DRAWINGS
$			FLUSH TOGGLE SWITCH, SINGLE POLE, SINGLE THROW
$3			FLUSH TOGGLE SWITCH, THREE WAY
			FLUORESCENT FIXTURE. SEE LIGHTING SCHEDULE.
			LIGHTING FIXTURE, WALL MOUNTED SEE LIGHTING SCHEDULE
PB			MH-MANHOLE PB-PULLBOX HH-HANDHOLE OR AS NOTED ON DRAWINGS
—T—			TELEPHONE CONDUIT. SIZE AS NOTED
—G—			GROUNDING GRID OR GROUNDING CONDUCTOR SIZE AS REQUIRED OR AS NOTED ON DRAWINGS
—G—			GROUND PIGTAIL. SIZE AS NOTED ON DRAWINGS
—G—			EXOTHERMIC GROUND CONNECTION
—G—			BOLTED GROUND CONNECTION
			CONDUIT BENDING UP
			CONDUIT BENDING DOWN
— —			UNDERGROUND OR CONCEALED CONDUIT, 1" MINIMUM
			EXPOSED CONDUIT, 3/4" MINIMUM.
PB1 1,3,5			HOMERUN CONDUIT WITH 3 CONDUCTORS, NEUTRAL AND GROUND, CIRCUITS 1,3,5 PANEL PB1, NO HASHMARKS INDICATE 2 CONDUCTORS AND GROUND
			DRIVEN GROUND ROD/TEST WELL 3/4" X 10' Cu CLAD STEEL
			PANELBOARD OR AS NOTED ON DRAWING
			LIQUIDTIGHT FLEXIBLE CONDUIT
XXX	XXX		CONDUIT NUMBER 'XXX', REFER TO CONDUIT SCHEDULE FOR DESCRIPTION

CONDUIT PLAN	SINGLE LINE DIAGRAM	SCHEMATIC DIAGRAM	DESCRIPTION
$M			MANUAL MOTOR STARTER
			GROUND
			HEATER, RATING AS NOTED ON DRAWING
			HORN OR AUDIBLE SIGNAL
Ø	Ø	Ø	PHASE
		□	TERMINAL, INTERNAL WIRING
		■	TERMINAL, FIELD WIRING
■ DS			DOOR SWITCH
— —⊐			CONDUIT STUB OUT
F XX	/XX		DISCONNECT SWITCH, F = FUSED NF = NON-FUSED XX = AMP RATING
		T	TELEMETRY INPUT POINT
		P	PLC INPUT POINT AT RTU

GENERAL NOTES:

1. ALL 90° BENDS SHALL BE PVC COATED RIGID STEEL CONDUIT.
2. ALL CONDUIT WITHIN 6" FROM GRADE SHALL BE PVC COATED RIGID STEEL. ALL OTHER ABOVE GRADE CONDUIT SHALL BE RIGID GALVANIZED STEEL WITH WEATHERPROOF HUBS.
3. WIRE SHALL BE SIZED TO ALLOW FOR VOLTAGE DROP.
4. ALL COUPLINGS, "T" FITTINGS, LB'S, CONNECTORS, ETC. SHALL BE APPLETON OR EQUIVALENT.
5. CONDUIT INSTALLED IN TRENCHES SHALL BE SUPPORTED EVERY 5' BY CONDUIT CHAIRS.
6. CONDUIT SHALL BE ENCASED IN CONCRETE WILL BE COLORED WITH RED DYE SLURRY.
7. ALL INSTALLATIONS SHALL COMPLY WITH THE 2014 NATIONAL ELECTRIC CODE.
8. THE PRODUCTS AND INSTALLATION ON THIS PROJECT MUST FOLLOW THE NFPA 70E REQUIREMENTS.
9. ALL CONDUITS MUST BE GROUNDED AND BONDED PER NEC.
10. ALL CONTROL PANEL ENCLOSURES SHALL BE RATED NEMA 4X UNLESS OTHERWISE SHOWN ON THE DRAWINGS.

STANDARD ABBREVIATIONS

A	AMPERES
AC	ALTERNATING CURRENT
AF	AMPERE FRAME
AFC	ABOVE FINISHED CONCRETE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
AUTO	AUTOMATIC
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
BD	BOARD
BKR	BREAKER
C	CONDUIT
CAB	CABINET
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CLG	CEILING
C.O.	CONDUIT ONLY
COMPT	COMPARTMENT
COND	CONDUCTOR
CONT	CONTROL
CONTD	CONTINUED
CPT	CONTROL POWER TRANSFORMER
CP	CONTROL PANEL
CT	CURRENT TRANSFORMER
CU	COPPER
CR	CONTROL RELAY
DC	DIRECT CURRENT
DISC	DISCONNECT
DISC SW	DISCONNECT SWITCH
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
DWG	DRAWING
DS	DOOR SWITCH
EL,ELEV	ELEVATION
EMT	ELECTRICAL METALLIC TUBING
EO	ELECTRICALLY OPERATED
EXIST	EXISTING
FBO	FURNISHED BY OWNER
FDR	FEEDER
FIN	FINISHED
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FM	FLOW METER
FS	FLOW SWITCH
FT OR '	FEET OR FOOT
FT	FLOW TRANSMITTER
FUT	FUTURE
FVNR	FULL VOLTAGE NON REVERSING
GALV	GALVANIZED
GD	GAS DETECTORS
GFI	GROUND FAULT INTERRUPTER
GFP	GROUND FAULT PROTECTION
GND OR G	GROUND
HH	HANDHOLE
HOA	HAND/OFF/AUTO
HTR	HEATER
IC	INTERRUPTING CURRENT
IN OR "	INCHES OR INCH
IND	INDICATING
INST	INSTANTANEOUS
INSTR	INSTRUMENT
INTLK	INTERLOCK
JB OR J	JUNCTION BOX, CONDULET OR FITTING AS REQUIRED BY NEC. UNLESS OTHERWISE NOTED
KW	KILOWATTS
LCL	LONG CONTINUOUS LOAD
LCP	LOCAL CONTROL PANEL
LEV	LEVEL
LIM	LIMIT
LR	LOCAL/REMOTE
LOS	LOCKOUT STOP STATION
LS	LEVEL OR LIMIT SWITCH
LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS AND GROUND FAULT ADJUSTMENTS
LT	LIGHT
LTG	LIGHTING
LV	LOW VOLTAGE
MA	MILLIAMPERE
MAINT	MAINTAINED
MAN	MANUAL
MAX	MAXIMUM
MC	MAINTAINED CONTACT
MCC	MOTOR CONTROL CENTER
MCM	THOUSAND CIRCULAR MILS
MCP	MOTOR CIRCUIT PROTECTOR
MH	MANHOLE
MIN	MINIMUM OR MINUTE
MLO	MAIN LUGS ONLY
MOV	MOTOR OPERATED VALVE ACTUATOR
MTG	MOUNTING
MTR	MOTOR
N	NEUTRAL
NA	NON-AUTOMATIC
NC	NORMALLY CLOSED
NCIO	NORMALLY CLOSED, INSTANTANEOUS OPEN
NCTC	NORMALLY CLOSED, TIME CLOSE
NCTO	NORMALLY CLOSE, TIME OPEN
NEC	NATIONAL ELECTRIC CODE
NIC	NOT IN CONTRACT
No	NUMBER
NO	NORMALLY OPEN
NOIC	NORMALLY OPEN, INSTANTANEOUS CLOSE
NOTC	NORMALLY OPEN, TIME CLOSE
NOTO	NORMALLY OPEN, TIME OPEN
NP	NAMEPLATE
NTS	NOT TO SCALE
OL	OVERLOAD
OTT	OVERTEMP SWITCH
PB	PUSHBUTTON
PB	PULLBOX
PC	PHOTOCELL
PCV	PUMP CONTROL VALVE
PMR	POWER MONITOR RELAY
PNL	PANEL
POS	POSITION
PR	PAIR
PRI	PRIMARY
PS	PRESSURE SWITCH
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
PVC/RGS	PVC JACKETED RIGID GALVANIZED STEEL CONDUIT
PW	PART WINDING
RECEP	RECEPTACLE
RCP	REMOTE CONTROL PANEL
RGS	RIGID GALVANIZED STEEL CONDUIT
RTU	REMOTE TERMINAL UNIT
RVAT	REDUCED VOLTAGE AUTO TRANSFORMER
RVYD	REDUCED VOLTAGE WYE DELTA
SCE	SOUTHERN CALIFORNIA EDISON
SEC	SECONDARY
SEL	SELECTOR
SP	SPARE
SPEC	SPECIFICATION
SS	STAINLESS STEEL
SSRV	SOLID STATE REDUCED VOLTAGE STARTER
SPDT	SINGLE POLE DOUBLE THROW
SPST	SINGLE POLE SINGLE THROW
ST	SHUNT TRIP
STA	STATION
STL	STEEL
STP	SHIELDED TWISTED PAIR
STR	STARTER
STT	SHIELDED TWISTED TRIPLET
SV	SOLENOID VALVE
SW	SWITCH
SWBD	SWITCHBOARD
TB	TERMINAL BOX
TEL	TELEPHONE
TEMP	TEMPERATURE
TERM	TERMINAL
TM	TELEMETRY
TS	TEMPERATURE SWITCH
TS2W	TWO SPEED TWO WINDING
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TW/SH	TWISTED SHIELDED
TYP	TYPICAL
UG	UNDERGROUND
UGPS	UNDERGROUND PULL SECTION
UON	UNLESS OTHERWISE NOTED
V	VOLTS
W	WATTS
W/	WITH
W/O	WITHOUT
WP	WEATHERPROOF
XFMR	TRANSFORMER
XP	EXPLOSION PROOF
ZS	POSITION SWITCH OR LIMIT SWITCH
3W	THREE WIRE
4W	FOUR WIRE

UTILITY NOTE

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CITY "AS-BUILT"

(SIGNATURE) DATE
(PRINTED NAME) P.E. NO.:
MY REGISTRATION EXPIRES: DISCIPLINE

O.W.D. "AS-BUILT"

(SIGNATURE) DATE
(PRINTED NAME) P.E. NO.:
MY REGISTRATION EXPIRES: DISCIPLINE

OTAY WATER DISTRICT

PROJECT#: D1044-090422 W980, W711
PERMIT#: DEV-19-013 P.Z.: R815, R680
John Thayer Digitally signed by John Thayer Date: 2021.12.27 17:15:13-08'00'
REVIEWED BY: DATE:

REGISTERED PROFESSIONAL ENGINEER JOSEPH MORAES No. E11023 Exp. 6/30/23 ELECTRICAL STATE OF CALIFORNIA

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd
Contractor					
Inspector					
Date Completed					

BENCH MARK

DESCRIPTION : BRASS DISK MKD. "SD CITY ENGR." IN 3/4" IRON PIPE 0.5 MI S'LY OF INTX LA MEDIA RD & BIRCH RD S/O SIDE OF GRAVEL RD 225'+- W OF GATE TO A.V.R.TRACKING STA 15'+- E OF METAL GATE.(PT # 1344 PER R.O.S. 14841) ELEVATION = 520.425 (NAVD '88)

SCALE
Horizontal N/A
Vertical N/A

Designed By	Drawn By	Checked By
SDN	CAD	JMM

Plans Prepared Under Supervision Of
JOE M. MORAES Date 01.04.22 R.C.E. No. E11023

Submitted By
Planning Land Arch

Approved By
Principal Civil Engineer

CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT

IMPROVEMENT PLANS FOR: MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS

ELECTRICAL SYMBOLS AND ABBREVIATIONS

Drawing No. 20041-09
W.O. No. OR6571

O.W.D. NO. D1044-090422
DEV-19-013

E-1

MORAES / PHAM & ASSOCIATES
2131 Palomar Airport Rd. #120
Carlsbad, CA 92011

OTAY VILLAGE 8 WEST
MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS

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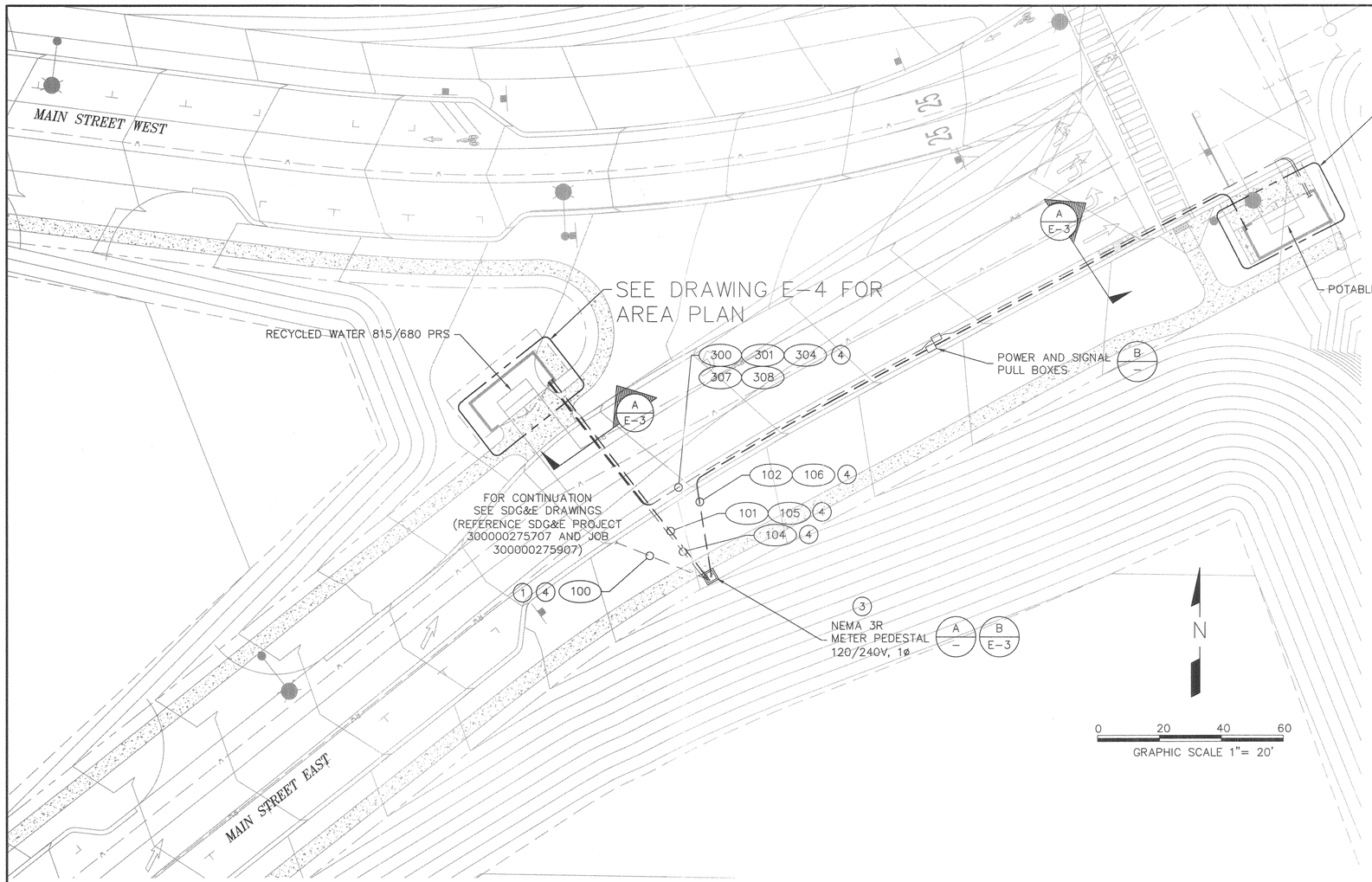
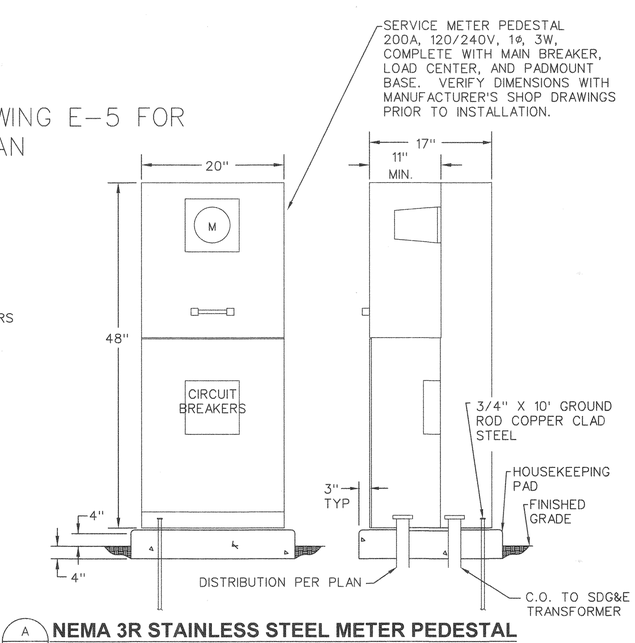


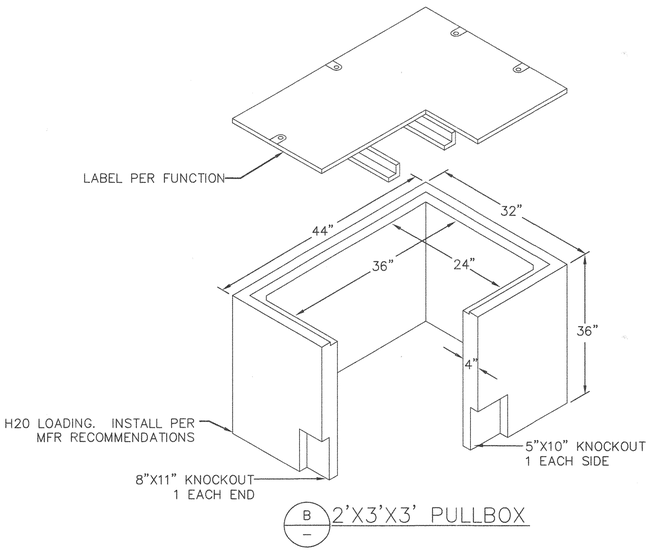
ELECTRICAL SITE PLAN

SCALE: 1" = 20'



A / – **NEMA 3R STAINLESS STEEL METER PEDESTAL**
NOT TO SCALE

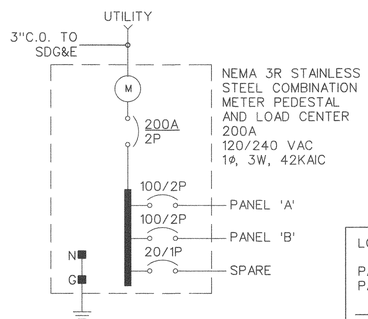
1. PROVIDE CLEARANCES PER SDG&E SERVICE GUIDE REQUIREMENTS.



B / – 2'X3'X3' PULLBOX

NOTES

1. REFER TO SDG&E INSTALLATION STANDARDS.
2. CONDUIT AND HOME RUNS ARE DIAGRAMMATIC.
3. CONTRACTOR SHALL COORDINATE WITH DISTRICT FOR APPLICATION OF CABLE AND ELECTRIC SERVICE FROM COX COMMUNICATIONS AND SAN DIEGO GAS AND ELECTRIC (SDG&E). THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES AND COST FOR THE COORDINATION AND INSTALLATION EFFORT.
4. REPAIR EXISTING ASPHALT PAVEMENT AND CONCRETE. REPAIRS SHALL BE FROM EXPANSION JOINT TO EXPANSION JOINT.



SINGLE LINE DIAGRAM

LOAD CALCULATION	
PANEL 'A'	0.75A
PANEL 'B'	0.75A
TOTAL LOAD	1.5A @240V, 1ø

UTILITY NOTE

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CITY "AS-BUILT"

(SIGNATURE) DATE

(PRINTED NAME) P.E. NO.:

MY REGISTRATION EXPIRES: DISCIPLINE

O.W.D. "AS-BUILT"

(SIGNATURE) DATE

(PRINTED NAME) P.E. NO.:

MY REGISTRATION EXPIRES: DISCIPLINE

OTAY WATER DISTRICT

PROJECT#: D1044-090422 W980, W711

PERMIT#: DEV-19-013 P.Z.: R815, R680

John Thayer Digitally signed by John Thayer Date: 2022.10.27 17:15:31-08'00'

REVIEWED BY: DATE:

REGISTERED PROFESSIONAL ENGINEER JOSEPH MORAES No. E11023 Exp. 6/30/23 ELECTRICAL STATE OF CALIFORNIA

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd
Contractor					
Inspector					
Date Completed					

BENCH MARK

DESCRIPTION :- BRASS DISK MKD. "SD CITY ENGR." IN 3/4" IRON PIPE 0.5 MI S'LY OF INTX LA MEDIA RD & BIRCH RD S/O SIDE OF GRAVEL RD 225'+- W OF GATE TO A.V.R.T.RACKING STA 15'+- E OF METAL GATE.(PT # 1344 PER R.O.S. 14841) ELEVATION = 520.425 (NAVD '88)

SCALE	
Horizontal	N/A
Vertical	N/A

Designed By	Drawn By	Checked By
SDN	CAD	JMM

Plans Prepared Under Supervision Of

JOE M. MORAES Date 09.04.22

R.C.E. No. E11023

Submitted By Planning | Land Arch

Approved By Principal Civil Engineer

CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT

IMPROVEMENT PLANS FOR: MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS

ELECTRICAL SITE PLAN AND SINGLE LINE DIAGRAM

Drawing No. 20041-10

W.O. No. OR657I

O.W.D. NO. D1044-090422
DEV-19-013

E-2

MORAES / PHAM & ASSOCIATES
2131 Palomar Airport Rd. #120
Carlsbad, CA 92011

OTAY VILLAGE 8 WEST
MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS

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CONDUIT NO.	CONDUIT SIZE	FROM	TO	CABLE QTY.	CABLE SIZE	CABLE GND.*	VOLTAGE		REMARKS
SERVICE									
100	3"	EXISTING SDG&E PAD MOUNT XFMR	METER PEDESTAL	–	–	–	–	–	C.O. PER SDG&E REQUIREMENTS
101	2"	METER PEDESTAL	815/680 PRS PANEL "A"	3	#1	#8	120/240V	POWER	
102	2"	METER PEDESTAL	980/711 PRS PANEL "B"	3	#1	#8	120/240V	POWER	
103	2"	815/680 PRS COX COMM CABINET	COX POC	–	–	–	–	–	C.O.
104	1-1/2"	METER PEDESTAL	815/680 PRS SCADA PANEL	–	–	–	–	–	C.O.
105	1-1/2"	METER PEDESTAL	NEAR 815/680 PRS PANEL "A"	–	–	–	–	–	C.O.
106	1-1/2"	METER PEDESTAL	NEAR 980/711 PRS PANEL "B"	–	–	–	–	–	C.O.
815/680 PRS STATION									
200	1"	815/680 PRS SCADA PANEL	815/680 PRS COX COMM CABINET	1	CAT6	–	–	DATA	
201	1"	815/680 PRS SCADA PANEL	815/680 PIT CABINET	2	#16STP	–	24V	SIGNAL	PIT-815, PIT-680
202	1"	815/680 PRS SCADA PANEL	815/680 PIT CABINET	2	#14	#14	120V	CONTROL	INTRUSION
203	2"	815/680 PIT CABINET	815/680 PRV	–	–	–	–	–	C.O. FOR PRESSURE SENSING LINE
204	2"	815/680 PIT CABINET	815/680 PRV	–	–	–	–	–	C.O. FOR PRESSURE SENSING LINE
205	1-1/2"	815/680 PRS SCADA PANEL	ZSC-103 AND ZSC-104	4	#14	–	24V	CONTROL	
206	1"	815/680 PRS PANEL "A"	815/680 PRS SCADA PANEL	2	#12	#12	120V	POWER	A-1
207	1"	815/680 PRS PANEL "A"	815/680 PRS COX COMM CABINET	2	#12	#12	120V	POWER	A-3
208	1"	815/680 PRS PANEL "A"	RECEPTACLE	2	#12	#12	120V	POWER	A-4
209	1"	815/680 PRS PANEL "A"	LIGHT FIXTURE	2	#12	#12	120V	POWER	A-2
210	1-1/2"	815/680 PRS SCADA PANEL	815/680 PIT CABINET	–	–	–	–	–	C.O.
211	1-1/2"	815/680 PRS SCADA PANEL	CELLULAR ANTENNA	2	COAX	–	–	DATA	
212	1"	815/680 PRS SCADA PANEL	FIT-103 AND FIT-104	2	#16STP	–	24V	SIGNAL	FIT-103, FIT-104
				4	#14	#14	24V	POWER	
980/711 PRS STATION									
300	1"	815/680 PRS SCADA PANEL	980/711 PIT CABINET	2	#16STP	–	24V	SIGNAL	PIT-890, PIT-711
301	1"	815/680 PRS SCADA PANEL	980/711 PIT CABINET	2	#14	#14	120V	CONTROL	INTRUSION
302	2"	980/711 PIT CABINET	980/711 PRV	–	–	–	–	–	C.O. FOR PRESSURE SENSING LINE
303	2"	980/711 PIT CABINET	980/711 PRV	–	–	–	–	–	C.O. FOR PRESSURE SENSING LINE
304	1-1/2"	815/680 PRS SCADA PANEL	J-BOX @ ZSC-204	6	#14	–	24V	CONTROL	ZSC-203, ZSC-204, ZSC-207
305	1"	980/711 PRS PANEL "B"	LIGHT FIXTURE	2	#12	#12	120V	POWER	B-2
306	1"	980/711 PRS PANEL "B"	RECEPTACLE	2	#12	#12	120V	POWER	B-4
307	(2)1-1/2"	NEAR 815/680 PRS SCADA PANEL	NEAR 980/711 PIT CABINET	–	–	–	–	–	C.O.
308	1"	815/680 PRS SCADA PANEL	FIT-203 AND FIT-204	2	#16STP	–	24V	SIGNAL	FIT-203, FIT-204
				4	#14	#14	24V	POWER	
309	1"	ZSC-207	J-BOX @ ZSC-204	2	#14	#14	120V	CONTROL	

*ONE GROUND CONDUCTOR PER CONDUIT

MOUNTING SURFACE (NEMA 3R) — PANEL A — 10,000 A.I.C. SYM.
120/240 VOLT 1 PHASE 3 WIRE — MAIN 70 A MCB — BUS 100A CU.

LOCATION	WATTAGE øA	WATTAGE øB	REC	LTG	POLE	BKR	CKT NO.	øA øB	CKT NO.	BKR	POLE	LTG	REC	WATTAGE øA	WATTAGE øB	LOCATION
SCADA PANEL	250				1	20	1		2	20	1	1		47		EXTERIOR LIGHT
COX PANEL		250			1	20	3		4	20	1		1		180	GFI RECEPTACLE
SPARE					1	20	5		6	20	1					SPARE
SPARE					1	20	7		8							SPACE
SPACE							9		10							SPACE
SPACE							11		12							SPACE
	250	250	WATTS/LINE											47	180	

øA=297 — øB=430
TOTAL WATTS= 727 — AMPS/LINE= 3.0 — LCL AMPS= 2

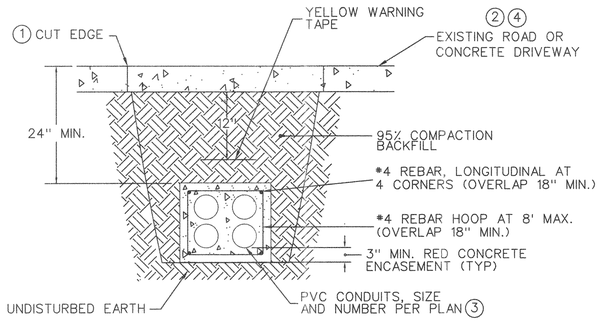
MOUNTING SURFACE (NEMA 3R) — PANEL B — 10,000 A.I.C. SYM.
120/240 VOLT 1 PHASE 3 WIRE — MAIN 70 A MCB — BUS 100A CU.

LOCATION	WATTAGE øA	WATTAGE øB	REC	LTG	POLE	BKR	CKT NO.	øA øB	CKT NO.	BKR	POLE	LTG	REC	WATTAGE øA	WATTAGE øB	LOCATION
SPARE					1	20	1		2	20	1	1		47		EXTERIOR LIGHT
SPARE					1	20	3		4	20	1		1		180	GFI RECEPTACLE
SPARE					1	20	5		6	20	1					SPARE
SPARE					1	20	7		8							SPACE
SPACE							9		10							SPACE
SPACE							11		12							SPACE
	0	0	WATTS/LINE											47	180	

øA=47 — øB=180
TOTAL WATTS= 227 — AMPS/LINE= 1.0 — LCL AMPS= Ø

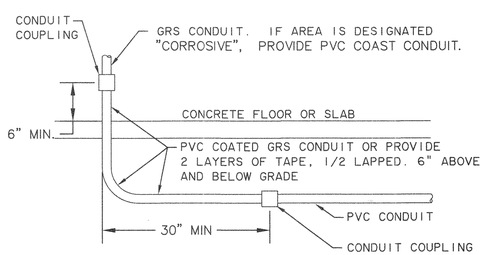
LIGHTING FIXTURE SCHEDULE

SYMBOL	TAG	DESCRIPTION	FIXTURE WATTS / VOLTAGE	LAMP TYPE NO. OF LAMPS / WATTS	MOUNTING	MANUFACTURER CATALOG NO.
▭	(A)	4' LED FIXTURE WITH LED DRIVER AND SURGE PROTECTION. REINFORCED FIBERGLASS HOUSING. IMPACT RESISTANT, UV RESISTANT ACRYLIC DIFFUSER, FULLY GASKETED. UL WET LOCATION LISTED.	47W 120VAC	LED (1 SET LEDS) 47W	CEILING	COLUMBIA LIGHTING LXEM4-40LW-RFA-EU-SSL-WH



A / E-3 CONCRETE ENCASED CONDUIT
NOT TO SCALE

1. TO BE STRAIGHT AND FULL DEPTH.
2. TACK COAT TO CUT EDGE. CUT TO BE 1" BEYOND EDGE OF PIT
3. REFER TO SPECIFICATIONS FOR CONDUIT REQUIREMENTS.
4. REPAIR EXISTING ASPHALT PAVEMENT AND CEMENT CONCRETE. CEMENT CONCRETE REPAIRS TO BE FROM EXPANSION JOINT TO EXPANSION JOINT.



B / E-3 CONDUIT STUB UP TRANSITION TO UNDERGROUND
NOT TO SCALE

UTILITY NOTE

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CITY "AS-BUILT"

(SIGNATURE) DATE
(PRINTED NAME) P.E. NO.:
MY REGISTRATION EXPIRES: DISCIPLINE

O.W.D. "AS-BUILT"

(SIGNATURE) DATE
(PRINTED NAME) P.E. NO.:
MY REGISTRATION EXPIRES: DISCIPLINE

OTAY WATER DISTRICT

PROJECT#: D1044-090422
PERMIT#: DEV-19-013 P.Z.: W980, W711 R815, R680
John Thayer Digitally signed by John Thayer Date: 2021.12.27 17:15:57-08'00'
REVIEWED BY: DATE:

REGISTERED PROFESSIONAL ENGINEER — JOSEPH M. MORAES — No. E11023 — Exp. 6/30/23 — ELECTRICAL — STATE OF CALIFORNIA

E-3

MORAES / PHAM & ASSOCIATES
2131 Palomar Airport Rd. #120
Carlsbad, CA 92011

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd
Contractor					
Inspector					
Date Completed					

BENCH MARK
DESCRIPTION : BRASS DISK MKD. "SD CITY ENGR." IN 3/4" IRON PIPE 0.5 MI S'LY OF INTX LA MEDIA RD & BIRCH RD SLI SIDE OF GRAVEL RD 225'+- W OF GATE TO A.V.P.T/RACKING STA 15'+- E OF METAL GATE.(PT # 1344 PER R.O.S. 14841) ELEVATION = 520.425 (NAVD '88)

SCALE: Horizontal N/A; Vertical N/A

Designed By SDN | Drawn By CAD | Checked By JMM
Plan Prepared Under Supervision Of JOE M. MORAES
Date 01.04.22
R.C.E. No. E11023
Planning | Land Arch

Submitted By
Approved By Principal Civil Engineer

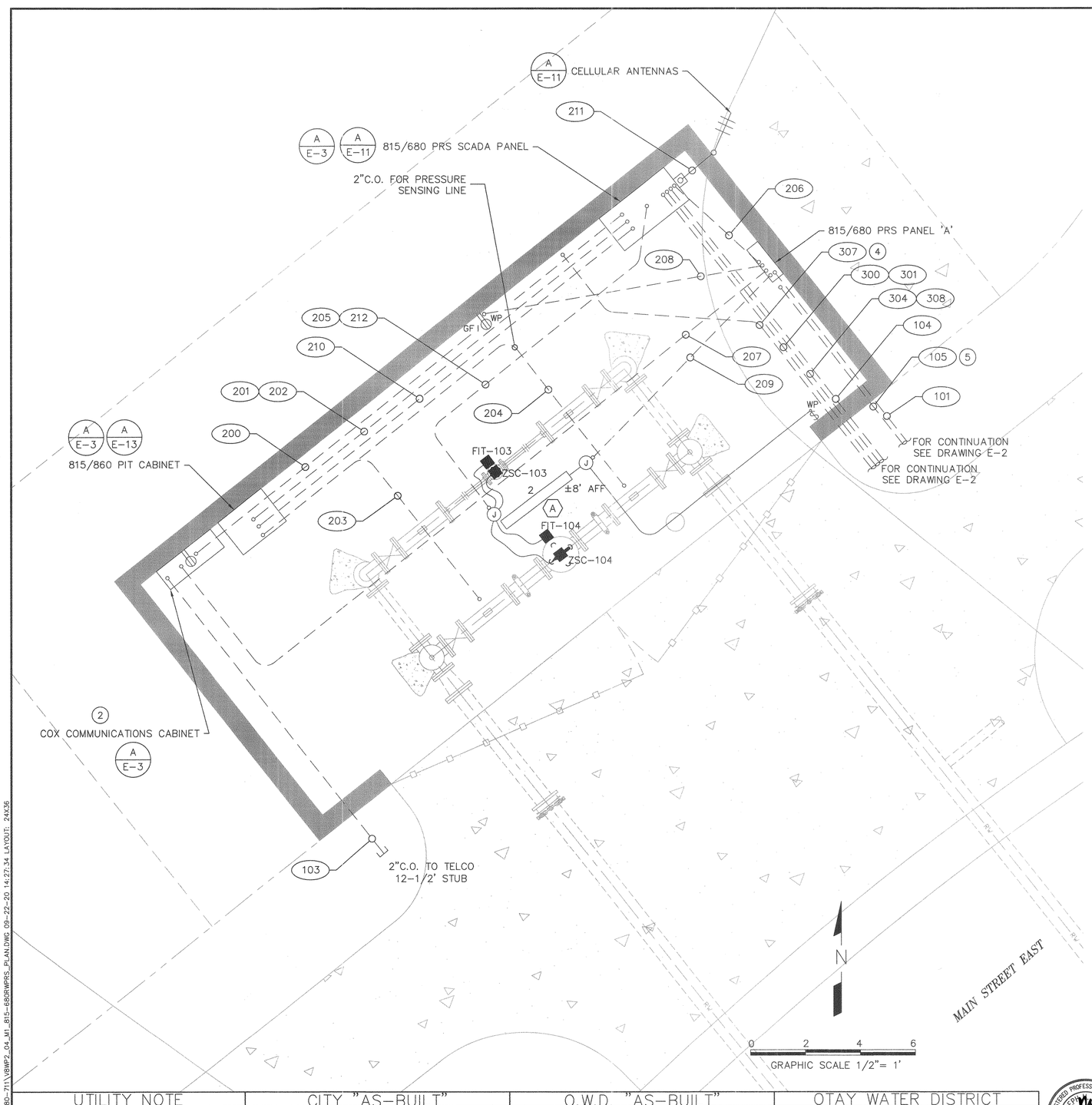
CITY OF CHULA VISTA — DEVELOPMENT SERVICES DEPARTMENT
IMPROVEMENT PLANS FOR: MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS
ELECTRICAL SCHEDULES AND DETAILS

Drawing No. 20041-11
W.O. No. OR6571

O.W.D. NO. D1044-090422
DEV-19-013

MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS
OTAY VILLAGE 8 WEST

\\ARTIO\DWG\646391\PRS\P2_980-711\V8\MP2_02_G-2_MAPS.DWG 09-22-20 14:26:14 LAYOUT: 24X36



NOTES

1. UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 40. ABOVE GROUND CONDUIT TO BE PVC COATED RIGID GALVANIZED STEEL. TRANSITIONS TO TAKE PLACE BELOW GRADE.
2. NEMA 4 ENCLOSURE (36" X 30" X 12") TO BE SUPPLIED BY THE CONTRACTOR. PROVIDE HOFFMAN MODEL A36H30DLP ENCLOSURE WITH WOOD BACKBOARD AND DUPLEX RECEPTACLE. THE DISTRICT WILL SUPPLY THE UPS, NETWORK SWITCHES, AND OTHER HARDWARE.
3. CONDUIT AND HOME RUNS ARE DIAGRAMMATIC.
4. STUP UP CONDUIT 307 NEXT TO THE 815/680 PRS SCADA PANEL 18 INCHES ABOVE FINISHED GRADE.
5. STUP UP CONDUIT 105 NEXT TO THE 815/680 PRS PANEL 'A' 18 INCHES ABOVE FINISHED GRADE.

OTAY VILLAGE 8 WEST
MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS

\\ARTIC\DWG\646391\PRSV\P2_980-711_V8WP2_04_MI_815-680RWPRS_PLAN.DWG 09-22-20 14:27:34 LAYOUT: 24X36

UTILITY NOTE

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CITY "AS-BUILT"

_____ DATE _____
(SIGNATURE)
_____ P.E. NO.: _____
(PRINTED NAME)
MY REGISTRATION EXPIRES: _____ DISCIPLINE _____

O.W.D. "AS-BUILT"

_____ DATE _____
(SIGNATURE)
_____ P.E. NO.: _____
(PRINTED NAME)
MY REGISTRATION EXPIRES: _____ DISCIPLINE _____

OTAY WATER DISTRICT

PROJECT#: D1044-090422
PERMIT#: DEV-19-013
P.Z.: W980, W711 R815, R680
John Thayer
Digitally signed by John Thayer
Date: 2021.12.27 17:16:14-08'00'
REVIEWED BY: _____ DATE: _____

REGISTERED PROFESSIONAL ENGINEER JOSEPH M. MORAES No. E11023 Exp. 6/30/23 ELECTRICAL STATE OF CALIFORNIA

E-4

MORAES / PHAM & ASSOCIATES
2131 Palomar Airport Rd. #120
Carlsbad, CA 92011

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd
Contractor _____					
Inspector _____					
Date Completed _____					

BENCH MARK
DESCRIPTION : BRASS DISK MKD. "SD CITY ENGR." IN 3/4" IRON PIPE, 0.5 MI S'LY OF INTX LA MEDIA RD & BIRCH RD S'D SIDE OF DRAVEL RD 225'+— W OF GATE TO A.V.R.TRACKING STA 15'+— E OF METAL GATE.(PT # 13-4 PER R.O.S. 14841) ELEVATION = 520.425 (NAVD '88)

SCALE
Horizontal N/A
Vertical N/A

Designed By	Drawn By	Checked By
SDN	CAD	JMM

Plans Prepared Under Supervision Of
JOE M. MORAES
Date 01.04.22
R.C.E. No. E11023

Submitted _____ By _____ Planning | Land Arch

Approved _____ By _____ Principal Civil Engineer

CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT

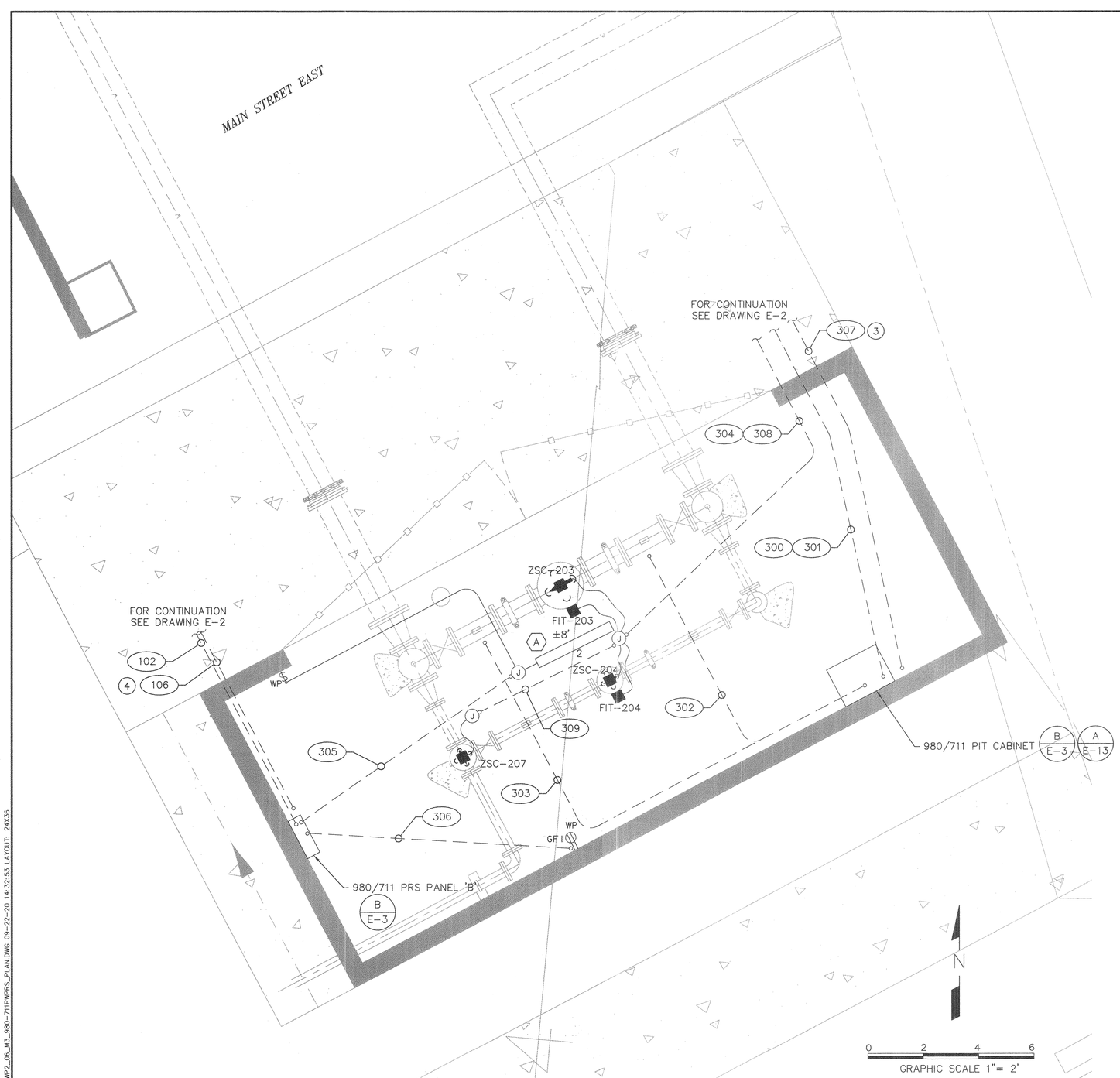
IMPROVEMENT PLANS FOR: MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS

815/680 RECYCLED WATER PRS ELECTRICAL PLAN

Drawing No. 20041-12

W.O. No. OR657I

O.W.D. NO. D1044-090422
DEV-19-013



NOTES

1. UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 40. ABOVE GROUND CONDUIT TO BE PVC COATED RIGID GALVANIZED STEEL. TRANSITIONS TO TAKE PLACE BELOW GRADE.
2. CONDUIT AND HOME RUNS ARE DIAGRAMMATIC.
3. STUP UP CONDUIT 307 NEXT TO THE 980/711 PIT PANEL 18 INCHES ABOVE FINISHED GRADE.
4. STUP UP CONDUIT 106 NEXT TO THE 980/711 PRS PANEL 'A' 18 INCHES ABOVE FINISHED GRADE.

OTAY VILLAGE 8 WEST
MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS

\ARTIC\DWG\646381\PRS\P2_980-711\WP2_06_M3_980-711PWPRS_PLAN.DWG 09-22-20 14:32:53 LAYOUT: 24X36

UTILITY NOTE

ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.

CITY "AS-BUILT"

(SIGNATURE) DATE

(PRINTED NAME) P.E. NO.:

MY REGISTRATION EXPIRES: DISCIPLINE

O.W.D. "AS-BUILT"

(SIGNATURE) DATE

(PRINTED NAME) P.E. NO.:

MY REGISTRATION EXPIRES: DISCIPLINE

OTAY WATER DISTRICT

PROJECT#: D1044-090422

PERMIT#: DEV-19-013 P.Z.: W980, W711 R815, R680

John Thayer Digitally signed by John Thayer Date: 2021.12.27 17:16:28 -08'00'

REVIEWED BY: DATE:

REGISTERED PROFESSIONAL ENGINEER JOSEPH M. MORAES No. E11023 Exp. 6/30/23 ELECTRICAL STATE OF CALIFORNIA

E-5

MORAES / PHAM & ASSOCIATES
2131 Palomar Airport Rd. #120
Carlsbad, CA 92011

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd
Contractor					
Inspector					
Date Completed					

BENCH MARK

DESCRIPTION : BRASS DISK MKD. "SD CITY ENGR." IN 3/4" IRON PIPE, 0.5 MI S'LY OF INTX LA MEDIA RD & BIRCH RD S'D SIDE OF GRAVEL RD 225'+- W OF GATE TO A.V.R.TRACKING STA 15'+- E OF METAL GATE.(PT # 1344 PER R.O.S. 14841) ELEVATION = 520.425 (NAVD '88)

SCALE	
Horizontal	N/A
Vertical	N/A

Designed By	Drawn By	Checked By
SDN	CAD	JMM

Plans Prepared Under Supervision Of
JOE M. MORAES
Date 01.04.22
R.C.E. No. E11023

Submitted ____ By ____ Planning ____ Land Arch ____

Approved ____ By ____ Principal Civil Engineer

CITY OF CHULA VISTA — DEVELOPMENT SERVICES DEPARTMENT

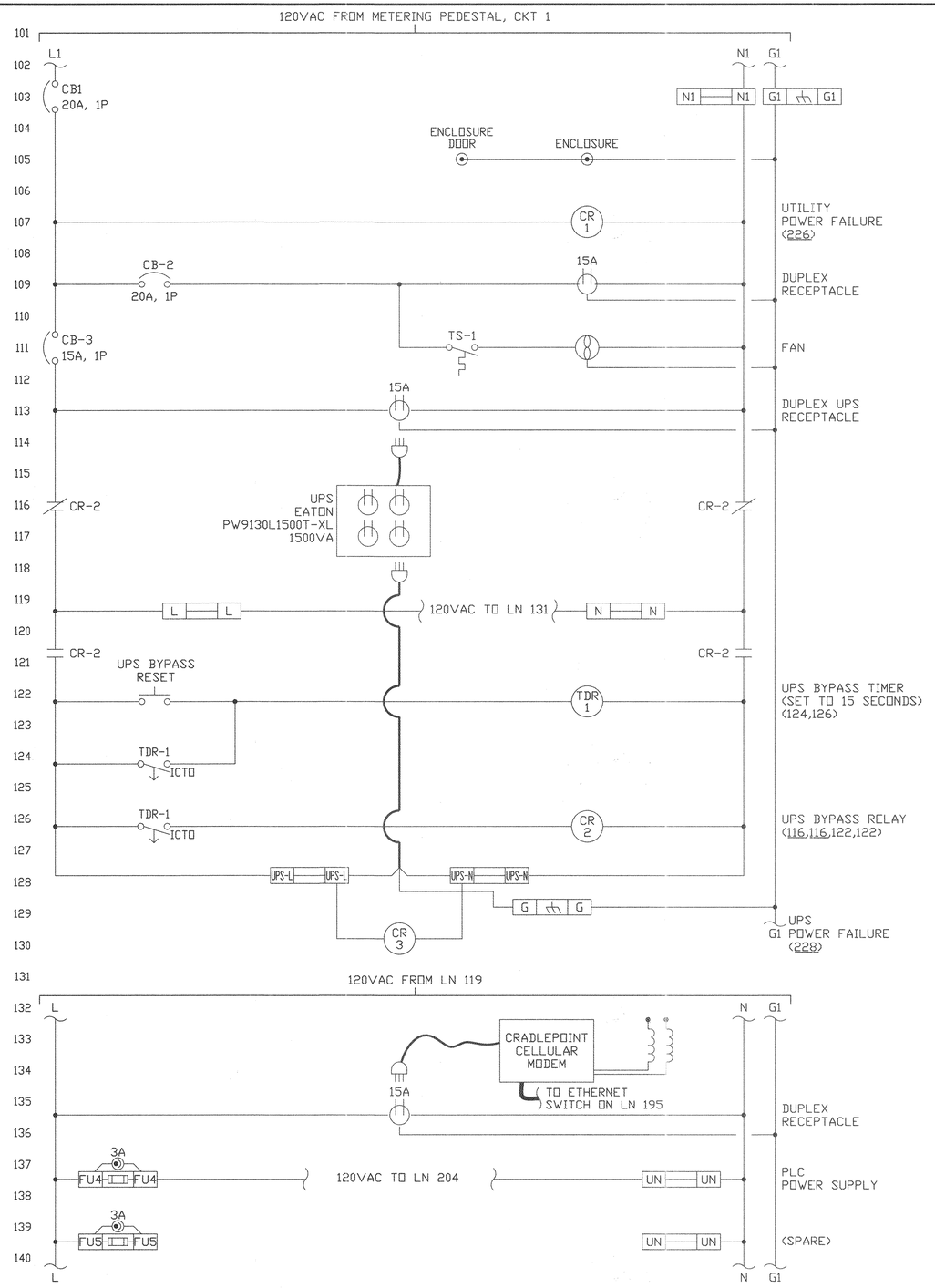
IMPROVEMENT PLANS FOR: MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS

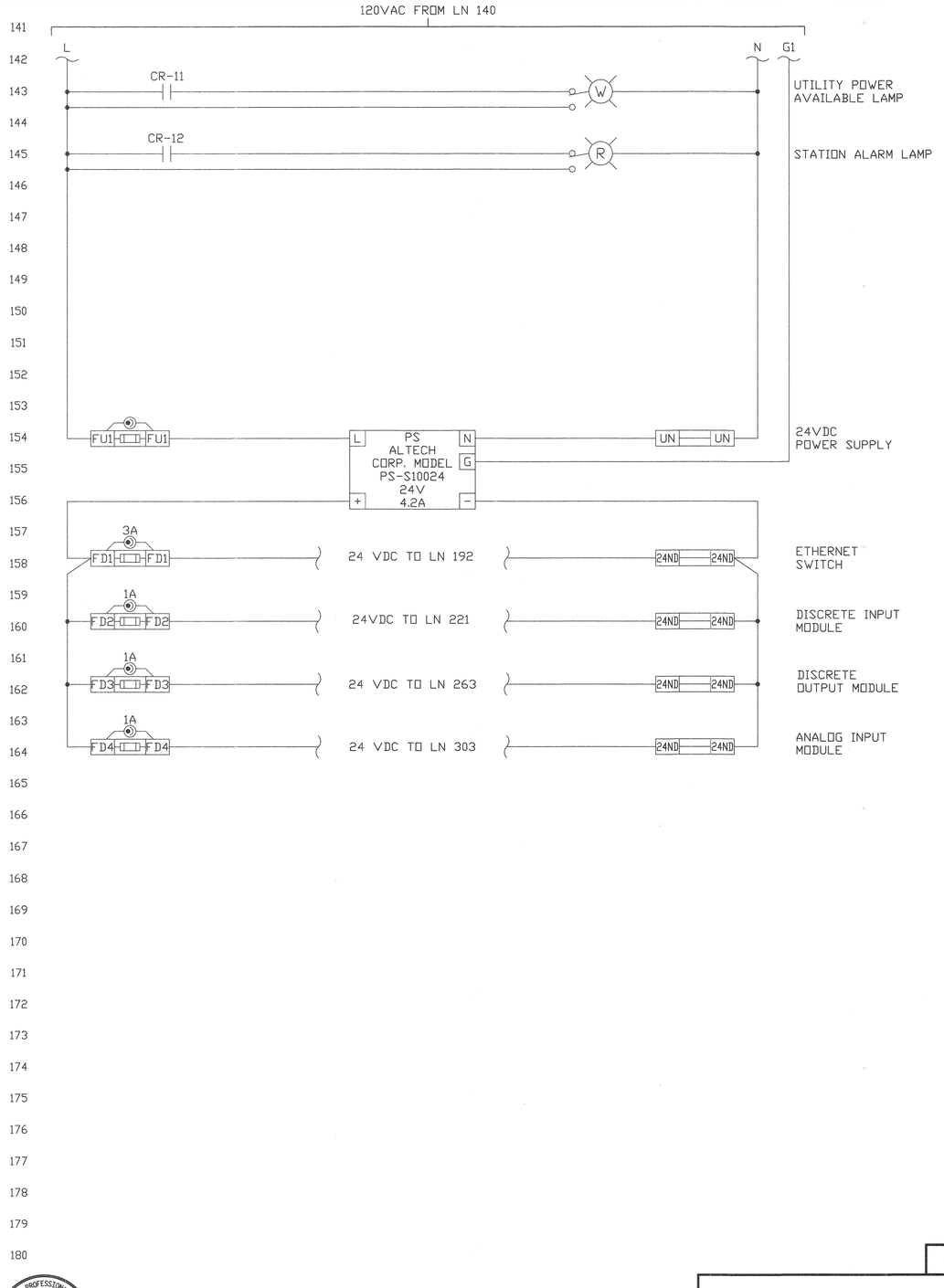
980/711 POTABLE WATER PRS ELECTRICAL PLAN

Drawing No. 20041-13

W.O. No. OR6571

O.W.D. NO. D1044-090422
DEV-19-013





OTAY VILLAGE 8 WEST
MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS

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E-6

UTILITY NOTE

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CITY "AS-BUILT"

(SIGNATURE) DATE

(PRINTED NAME) P.E. NO.:

MY REGISTRATION EXPIRES: DISCIPLINE

O.W.D. "AS-BUILT"

(SIGNATURE) DATE

(PRINTED NAME) P.E. NO.:

MY REGISTRATION EXPIRES: DISCIPLINE

OTAY WATER DISTRICT

PROJECT#: D1044-090422 W980, W711

PERMIT#: DEV-19-013 P.Z.: R815, R680

John Thayer Digitally signed by John Thayer Date: 2021.12.27 17:16:43-08'00'

REVIEWED BY: DATE:

REGISTERED PROFESSIONAL ENGINEER JOSEPH M. MORAES No. E11023 Exp. 6/30/23 ELECTRICAL STATE OF CALIFORNIA

M A
MORAES / PHAM & ASSOCIATES
2131 Palomar Airport Rd. #120
Carlsbad, CA 92011

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd
Contractor					
Inspector					
Date Completed					

BENCH MARK

DESCRIPTION : BRASS DISK MKD. "SD CITY ENGR." IN 3/4" IRON PIPE 0.5 MI S'LY OF INTX LA MEDIA RD & BIRCH RD S'LY SIDE OF GRAVEL RD 225'+/- W OF GATE TO A.V.R.TRACKING STA 15'+/- E OF METAL GATE.(PT # 1344 PER R.O.S. 14841) ELEVATION = 520.425 (NAVD '88)

SCALE
Horizontal N/A
Vertical N/A

Designed By	Drawn By	Checked By
SDN	CAD	JMM

Prepared Under Supervision Of

JOE M. MORAES Date 01-04-22 R.C.E. No. E11023

Submitted By

Planning | Land Arch

Approved By

Principal Civil Engineer

CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT

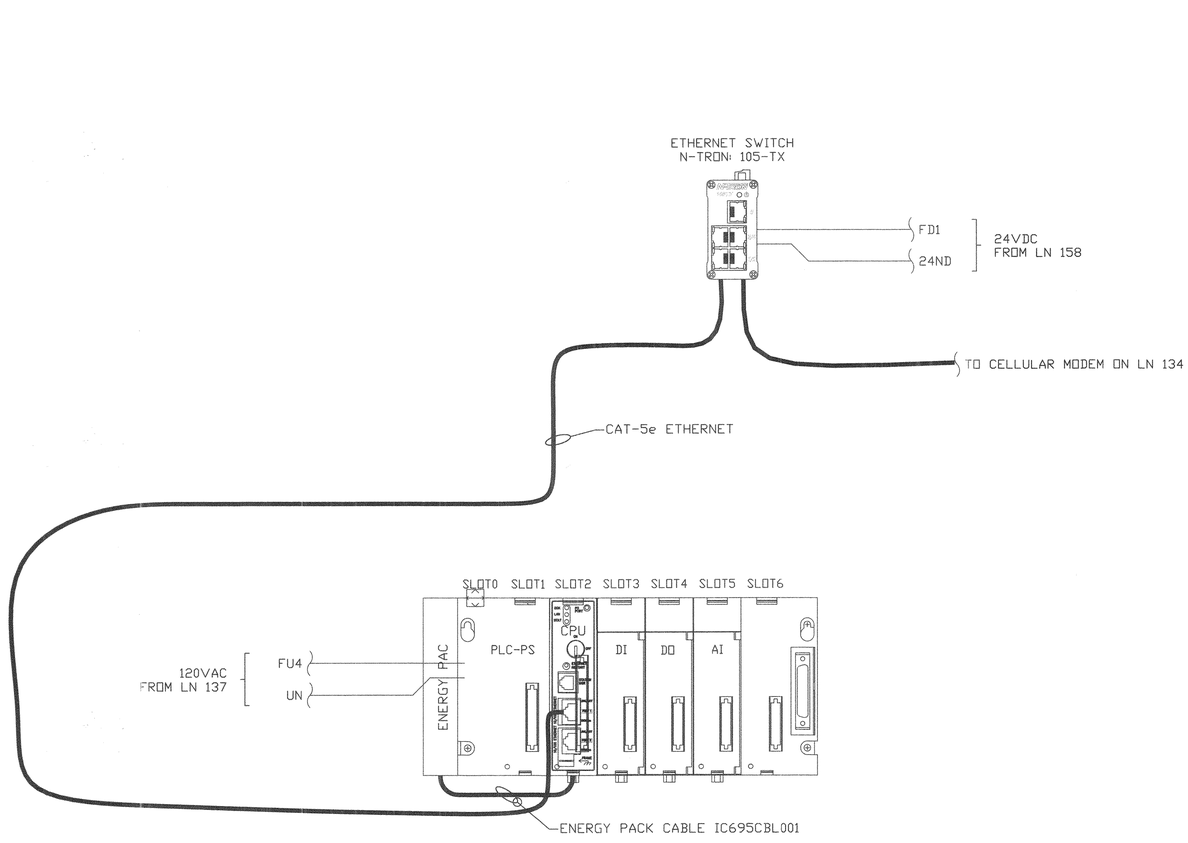
IMPROVEMENT PLANS FOR: MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS

SCADA PANEL CONTROL DIAGRAM 1

Drawing No. 20041-14

W.O. No. OR657I

O.W.D. NO. D1044-090422
DEV-19-013



UTILITY NOTE	CITY "AS-BUILT"	O.W.D. "AS-BUILT"	OTAY WATER DISTRICT
ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	(SIGNATURE) DATE (PRINTED NAME) P.E. NO.: MY REGISTRATION EXPIRES: DISCIPLINE	(SIGNATURE) DATE (PRINTED NAME) P.E. NO.: MY REGISTRATION EXPIRES: DISCIPLINE	PROJECT#: D1044-090422 PERMIT#: DEV-19-013 P.Z.: W980, W711 R815, R680 John Thayer Digitally signed by John Thayer Date: 2021.12.27 17:16:58-08'00' REVIEWED BY: DATE:

REGISTERED PROFESSIONAL ENGINEER JOSEPH MORAES No. E11023 Exp. 6/30/23 ELECTRICAL STATE OF CALIFORNIA

E-7

MDA
MORAES / PHAM & ASSOCIATES
2131 Palomar Airport Rd. #320
Carlsbad, CA 92011

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd
Contractor					
Inspector					
Date Completed					

BENCH MARK
DESCRIPTION : BRASS DISK MKD. "SD CITY ENGR." IN 3/4" IRON PIPE 0.5 MI S'LY OF INTX LA MEDIA RD & BIRCH RD S'LY SIDE OF GRAVEL RD 225'+- W OF GATE TO A.V.P.TRACKING STA 15'+- E OF METAL GATE./PT # 1344 PER R.O.S. 14841) ELEVATION = 520.425 (NAVD '88)

SCALE: Horizontal N/A; Vertical N/A

Designed By	Drawn By	Checked By
SDN	CAD	JMM

Plans Prepared Under Supervision Of
JOE M. MORAES
Date 01.04.22
R.C.E. No. E11023

Submitted By
Planning | Land Arch

Approved By
Principal Civil Engineer

CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT

IMPROVEMENT PLANS FOR: MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE
PRESSURE REDUCING STATIONS
SCADA PANEL CONTROL DIAGRAM 2

Drawing No. 20041-15
W.O. No. 0R6571

O.W.D. NO. D1044-090422
DEV-19-013

OTAY VILLAGE 8 WEST
MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS

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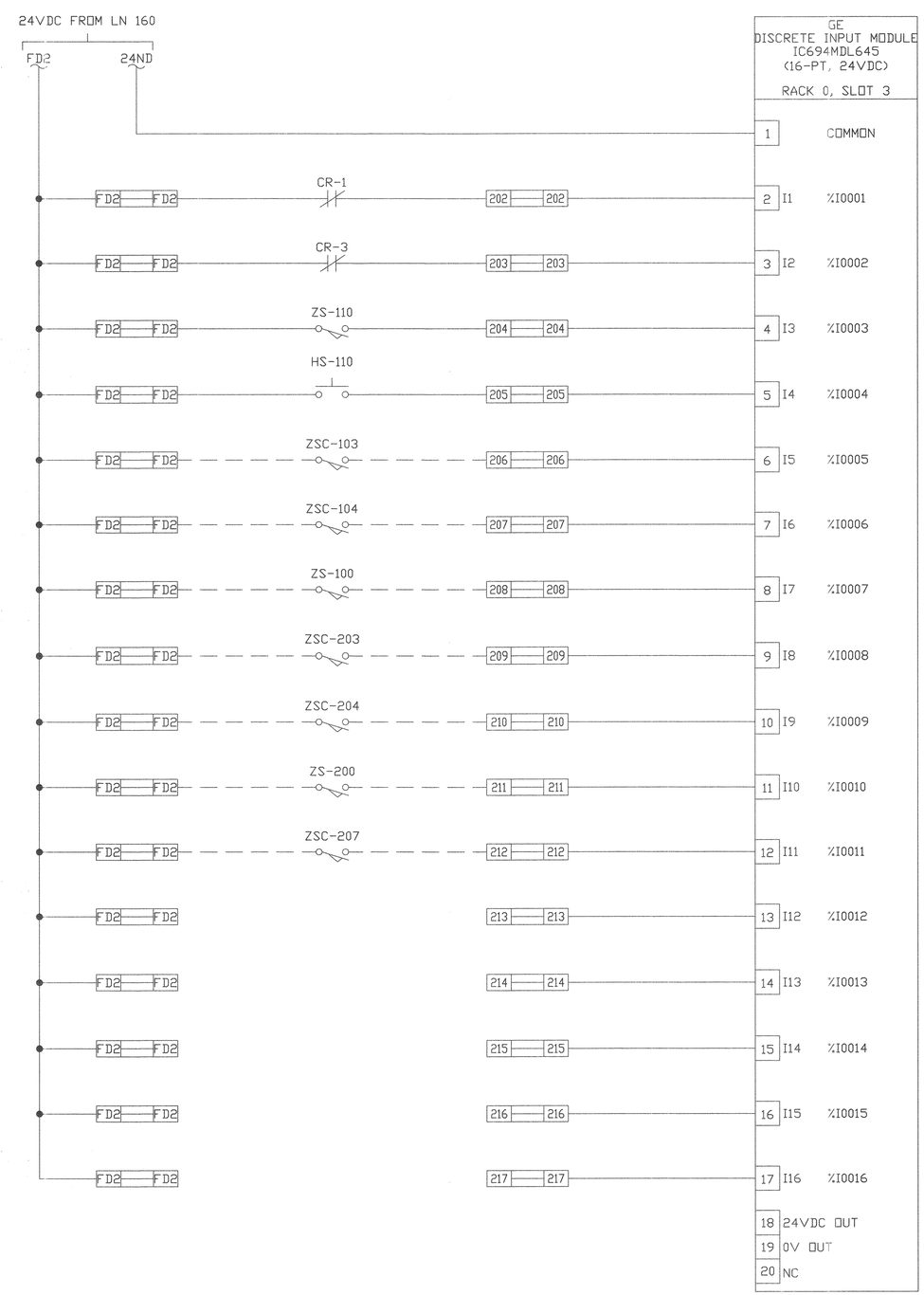

E-8

UTILITY NOTE

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CITY "AS-BUILT"

(SIGNATURE) DATE

(PRINTED NAME) P.E. NO.:

MY REGISTRATION EXPIRES: DISCIPLINE

O.W.D. "AS-BUILT"

(SIGNATURE) DATE

(PRINTED NAME) P.E. NO.:

MY REGISTRATION EXPIRES: DISCIPLINE

OTAY WATER DISTRICT

PROJECT#: D1044-090422 W980, W711

PERMIT#: DEV-19-013 P.Z.: R815, R680

John Thayer Digitally signed by John Thayer Date: 2021.12.27 11:17:16 -08'00'

REVIEWED BY: DATE:

REGISTERED PROFESSIONAL ENGINEER JOSEPH M. MORAES No. E11023 Exp. 6/30/23 ELECTRICAL STATE OF CALIFORNIA

MORAES / PHAM & ASSOCIATES
2131 Palomar Airport Rd. #120
Carlsbad, CA 92011

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd
Contractor					
Inspector					
Date Completed					

BENCH MARK

DESCRIPTION :- BRASS DISK MKD. "SD CITY ENGR." IN 3/4" IRON PIPE, 0.5 MI S'LY OF INTX LA MEDIA RD & BIRCH RD S/O SIDE OF GRAVEL RD 225'+- W OF GATE TO A.V.R.TRACKING STA 15'+- E OF METAL GATE.(PT # 1344 PER R.O.S. 14841) ELEVATION = 520.425 (NAVD '88)

SCALE
Horizontal N/A
Vertical N/A

Designed By	Drawn By	Checked By
SDN	CAD	JMM

Plans Prepared Under Supervision Of

JOE M. MORAES Date 01.04.22

R.C.E. No. E11023

Submitted By

Planning | Land Arch

Approved By

Principal Civil Engineer

CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT

IMPROVEMENT PLANS FOR: MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS

SCADA PANEL CONTROL DIAGRAM 3

Drawing No. 20041-16

W.O. No. OR657I

O.W.D. NO. D1044-090422
DEV-19-013

OTAY VILLAGE 8 WEST
MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS

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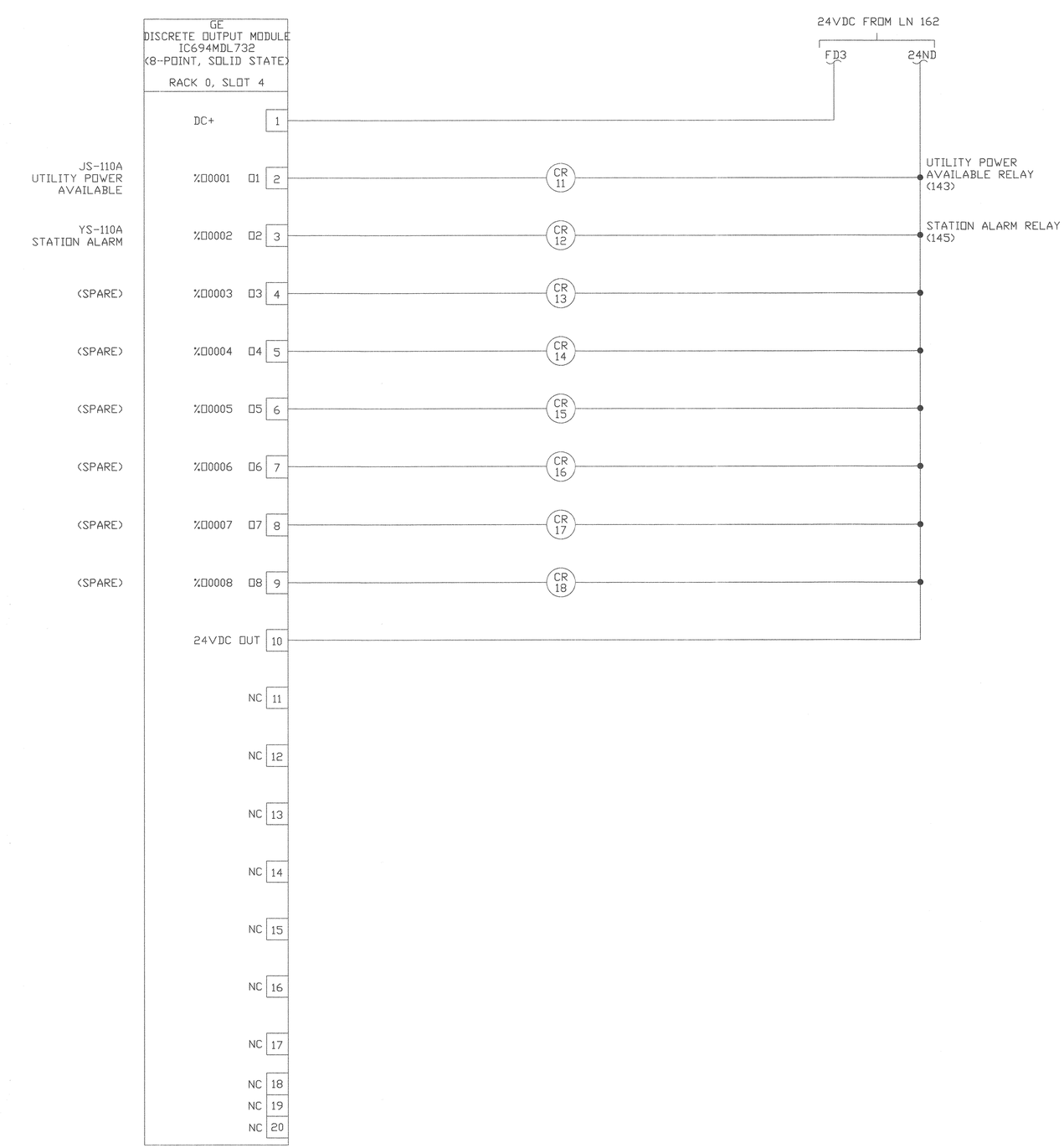

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OTAY VILLAGE 8 WEST
MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS

UTILITY NOTE

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CITY "AS-BUILT"

(SIGNATURE) DATE

(PRINTED NAME) P.E. NO.:

MY REGISTRATION EXPIRES: DISCIPLINE

O.W.D. "AS-BUILT"

(SIGNATURE) DATE

(PRINTED NAME) P.E. NO.:

MY REGISTRATION EXPIRES: DISCIPLINE

OTAY WATER DISTRICT

PROJECT#: D1044-090422

PERMIT#: DEV-19-013 P.Z.: W980, W711 R815, R680

John Thayer Digitally signed by John Thayer Date: 2021.12.27 17:17:35-08'00'

REVIEWED BY: DATE:

REGISTERED PROFESSIONAL ENGINEER JOSEPH M. MORAES No. E11023 Exp. 6/30/23 ELECTRICAL STATE OF CALIFORNIA

E-9

MORAES / PHAM & ASSOCIATES
2131 Palomar Airport Rd. #120
Carlsbad, CA 92011

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd
Contractor					
Inspector					
Date Completed					

BENCH MARK

DESCRIPTION : BRASS DISK MKD. "SD CITY ENGR." IN 3/4" IRON PIPE 0.5 MI S'LY OF INTX LA MEDIA RD & BIRCH RD S/O SIDE OF GRAVEL RD 225'+- W OF GATE TO A.V.R.TRACKING STA 15'+- E OF METAL GATE.(PT # 1344 PER R.O.S. 14841) ELEVATION = 520.425 (NAVD '88)

SCALE
Horizontal N/A
Vertical N/A

Designed By	Drawn By	Checked By
SDN	CAD	JMM

Plans Prepared Under Supervision Of
JOE M. MORAES Date 01-04-22
R.C.E. No. E11023

Submitted By
Planning Land Arch

Approved By
Principal Civil Engineer

CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT

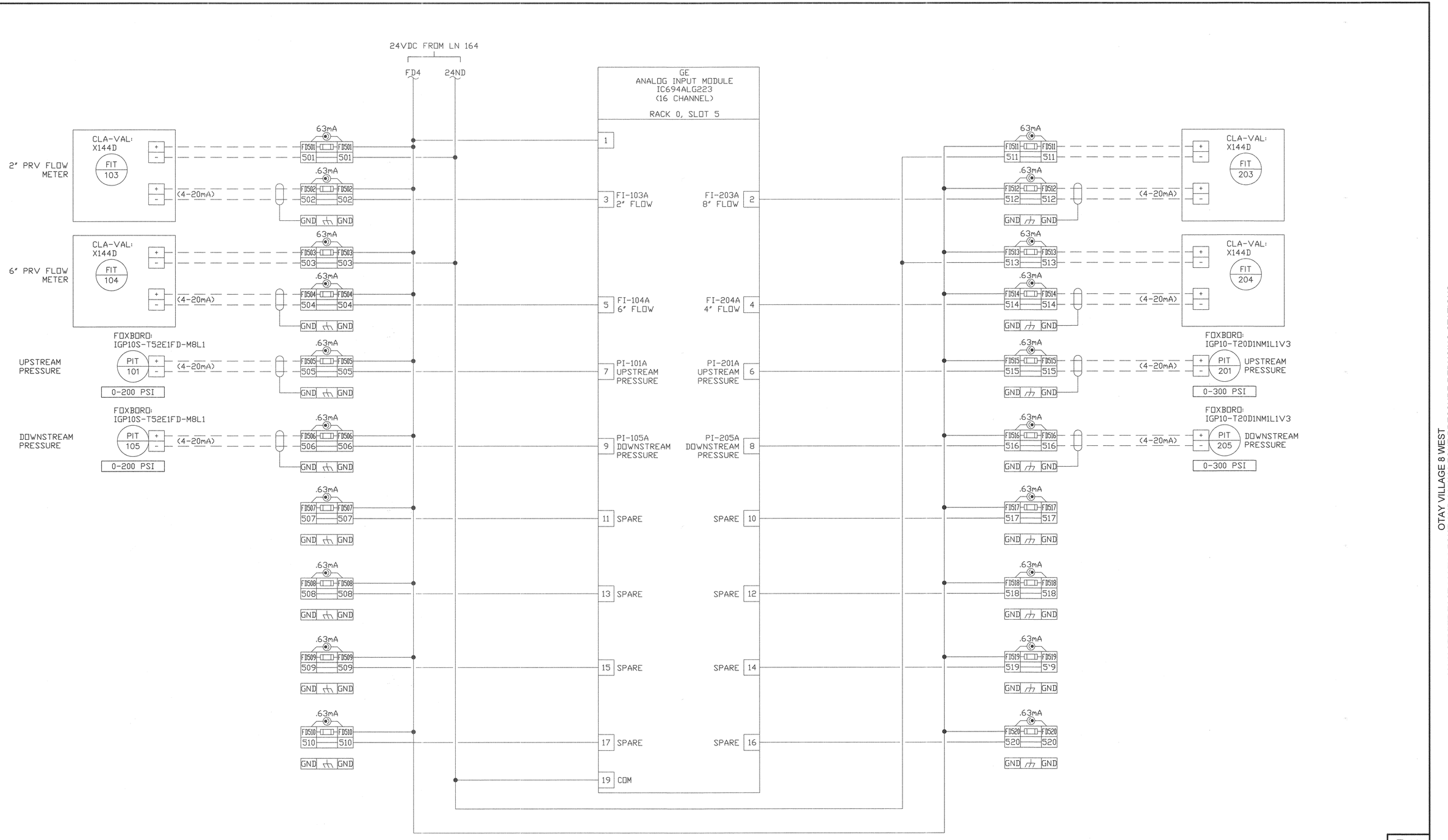
IMPROVEMENT PLANS FOR: MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS

SCADA PANEL CONTROL DIAGRAM 4

Drawing No. 20041-17

W.O. No. OR6571

O.W.D. NO. D1044-090422
DEV-19-013



E-10

MORAES / PHAM & ASSOCIATES
2131 Palomar Airport Rd. #120
Carlsbad, CA 92011

UTILITY NOTE	CITY "AS-BUILT"	O.W.D. "AS-BUILT"	OTAY WATER DISTRICT
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REGISTERED PROFESSIONAL ENGINEER — JOSEPH MICHAEL MORAES — No. E11023 Exp. 6/30/23 — ELECTRICAL — STATE OF CALIFORNIA

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd
Contractor					
Inspector					
Date Completed					

BENCH MARK
DESCRIPTION : BRASS DISK MKD. "SD CITY ENGR." IN 3/4" IRON PIPE 0.5 MI S'LY OF INTX LA MEDIA RD & BIRCH RD S'LY SIDE OF GRAVEL RD 225'+- W OF GATE TO A.V.R.T.RACKING STA 15'+- E OF METAL GATE.(PT # 134-4 PER R.O.S. 14841) ELEVATION = 520.425 (NAVD '88)

SCALE: Horizontal N/A; Vertical N/A

Designed By	Drawn By	Checked By
SDN	CAD	JMM

Plans Prepared Under Supervision Of: JOE M. MORAES — Date 01.04.22 — R.C.E. No. E11023

Submitted ____ By ____ Planning ____ Land Arch ____

Approved ____ By ____ Principal Civil Engineer

CITY OF CHULA VISTA — DEVELOPMENT SERVICES DEPARTMENT

IMPROVEMENT PLANS FOR: MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS

SCADA PANEL CONTROL DIAGRAM 5

Drawing No. 20041-18

W.O. No. OR6571

O.W.D. NO. D1044-090422
DEV-19-013

OTAY VILLAGE 8 WEST
MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS

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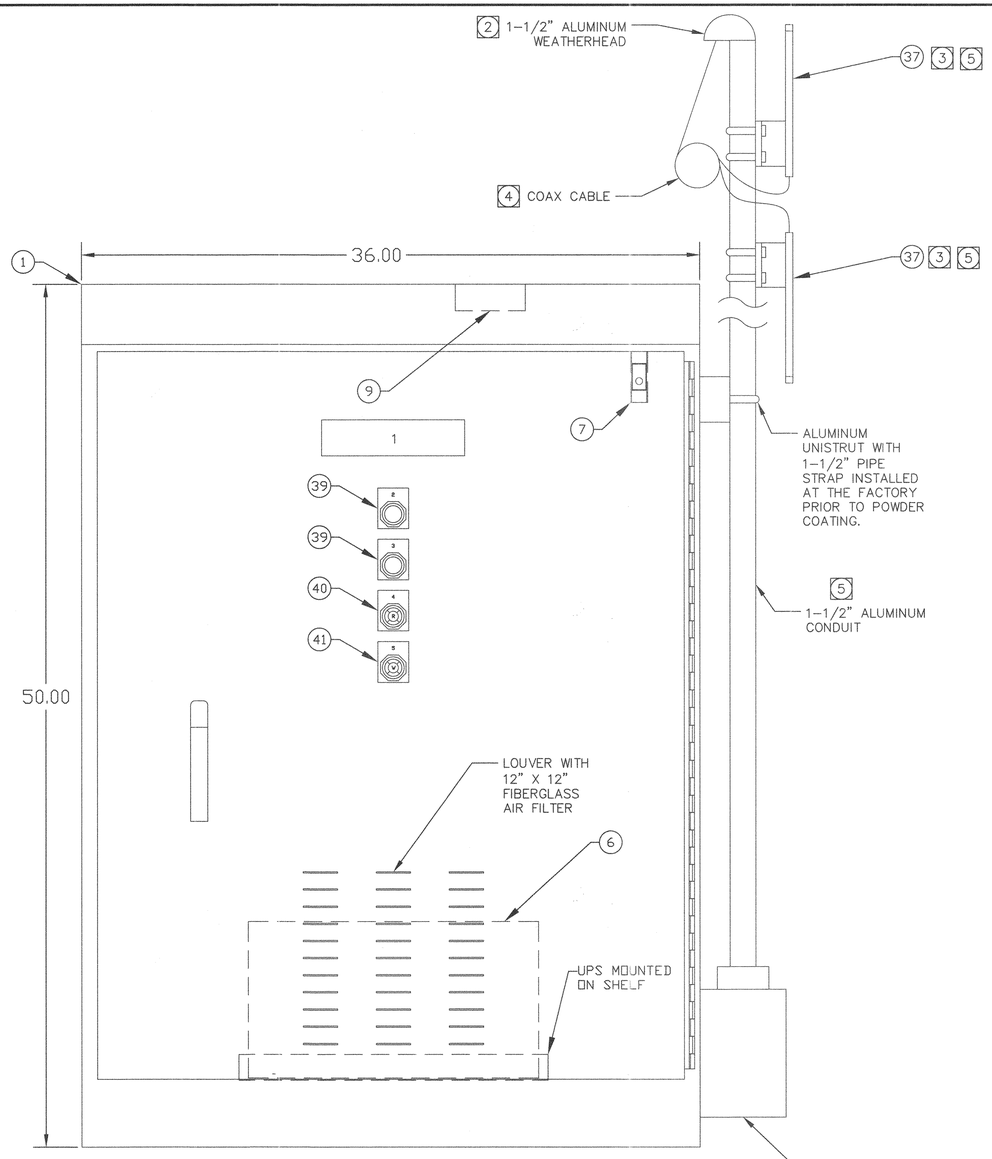
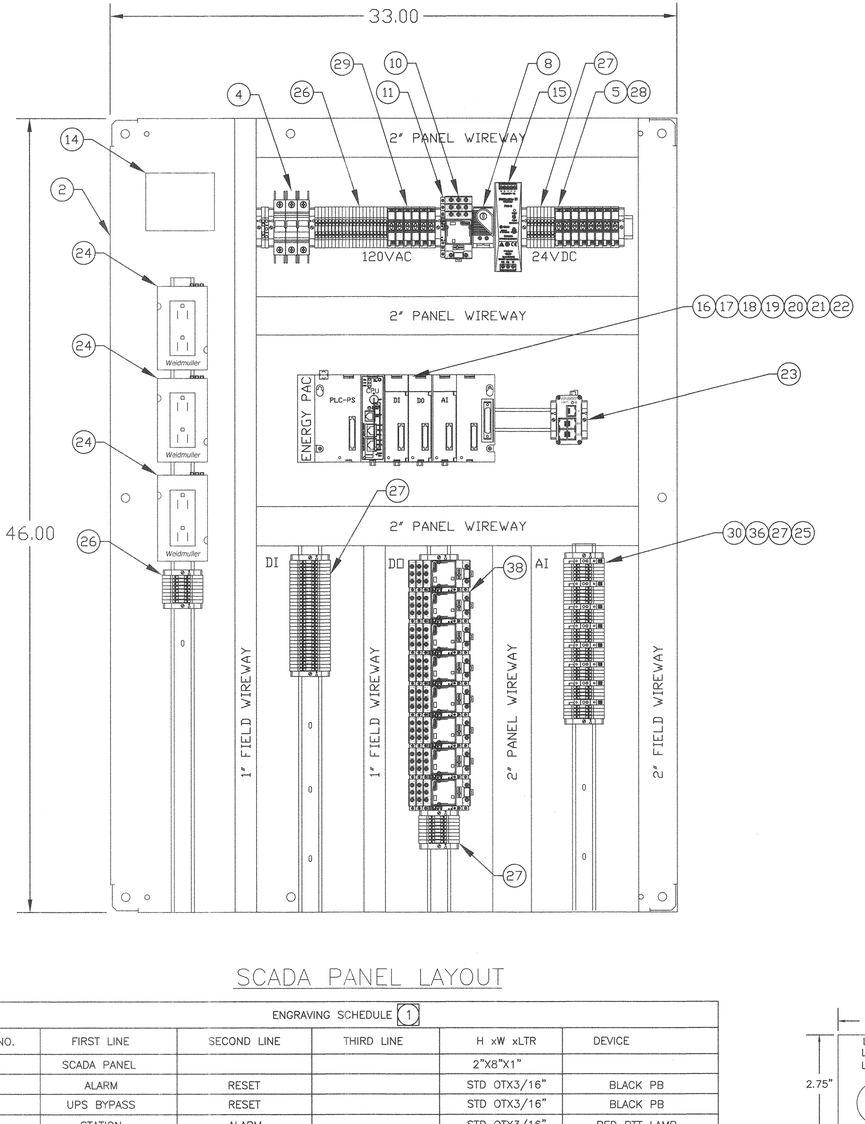


A / E-11 SCADA PANEL FRONT VIEW

NEMA 3R ENCLOSURE
(50"H X 36"W X 16.5"D)
5052 H-32 ALUMINUM WITH LIGHT TAN POWDER COATED FINISH



SCADA PANEL LAYOUT

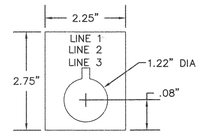
NOTES:

1. ALL ENGRAVINGS SHALL BE BLACK WITH WHITE LETTERING.
2. PROVIDE WEATHERHEAD, DRIP LOOP, AND VAPOR WRAP FOR EXPOSED CONNECTORS.
3. PROVIDE AT LEAST 12 INCHES SEPARATON BETWEEN THE TWO ANTENNAS.
4. COAX CABLE SHALL BE JEFA TECH LL400 WITH N MALE AND SMA MALE CONNECTORS; OR APPROVED EQUAL.
5. CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANTENNA MAST AND CONDUIT. MOUNT ANTENNAS AT LEAST 30 INCHES ABOVE THE ROOF LINE.

ENGRAVING SCHEDULE (1)					
NAMEPLATE NO.	FIRST LINE	SECOND LINE	THIRD LINE	H xW xLTR	DEVICE
1	SCADA PANEL			2"X8"X1"	
2	ALARM	RESET		STD OTX3/16"	BLACK PB
3	UPS BYPASS	RESET		STD OTX3/16"	BLACK PB
4	STATION	ALARM		STD OTX3/16"	RED PTT LAMP
5	POWER	AVAILABLE		STD OTX3/16"	WHITE PTT LAMP

NOTE:

(1) ALL ENGRAVINGS SHALL BE BLACK WITH WHITE LETTERING.



DETAIL STD OT

E-11

UTILITY NOTE

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CITY "AS-BUILT"

(SIGNATURE) DATE

(PRINTED NAME) P.E. NO.:

MY REGISTRATION EXPIRES: DISCIPLINE

O.W.D. "AS-BUILT"

(SIGNATURE) DATE

(PRINTED NAME) P.E. NO.:

MY REGISTRATION EXPIRES: DISCIPLINE

OTAY WATER DISTRICT

PROJECT#: D1044-090422

PERMIT#: DEV-19-013 P.Z.: W980, W711 R815, R680

John Thayer Digitally signed by John Thayer Date: 2021.12.27 17:18:06-08'00'

REVIEWED BY: DATE:

REGISTERED PROFESSIONAL ENGINEER JOSEPH M. MORAES No. E11023 Exp. 6/30/23 ELECTRICAL STATE OF CALIFORNIA

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd
Contractor					
Inspector					
Date Completed					

BENCH MARK

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SCALE
Horizontal N/A
Vertical N/A

Designed By	Drawn By	Checked By
SDN	CAD	JMM

Plans Prepared Under Supervision Of

JOE M. MORAES Date 01.04.22

R.C.E. No. E11023

Submitted By

Planning | Land Arch

Approved By

Principal Civil Engineer

CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT

IMPROVEMENT PLANS FOR: MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS

SCADA PANEL LAYOUT

Drawing No. 20041-19

W.O. No. OR6571

O.W.D. NO. D1044-090422
DEV-19-013

MORAES / PHAM & ASSOCIATES
2133 Palomar Airport Rd. #120
Carlsbad, CA 92011

MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS
OTAY VILLAGE 8 WEST

\\ARTIC\DWG\V46381\PRS\P2_980-711\VSHP2_02_6-2_MAPS.DWG 09-22-20 14:26:14 LAYOUT: 24X36

SCADA PANEL BILL OF MATERIALS

ITEM	MANUFACTURER	MODEL NO.	DESCRIPTION
1	SOUTHERN MANUFACTURING	CE3RAL1-8T5036165BMBPPTD	NEMA 3R ALUMINUM ENCLOSURE, 50"H X 36"W X 16.5"D, WITH LIGHT TAN POWDER COATED FINISH
2	SOUTHERN MANUFACTURING	CUSTOM - W/ENCLOSURE	ALUMINUM BACK PANEL
3	NOT USED	-	-
4	EATON	WMZT1C20	CIRCUIT BREAKER, UL489, RAIL MOUNT, 1P, 20A
5	EATON	WMZT1C15	CIRCUIT BREAKER, UL489, RAIL MOUNT, 1P, 15A
6	EATON	PW9130L1500T-XL	UPS SYSTEM, 1500VA, 120VAC OUT
7	HOFFMAN	ALFSWD	PANEL DOOR INTRUSION SWITCH
8	HOFFMAN	ATEMNO	THERMOSTAT, CLOSE ON HIGH TEMPERATURE
9	HOFFMAN	A4AXFN	PANEL VENTILATION FAN, 4", 120VAC
10	IDEC	RH4B-UL-AC120V	POWER RELAY, 120VAC, 4-POLE, WITH INDICATOR, 10A CONTACTS
11	IDEC	RH2B-UL-AC120V	POWER RELAY, 120VAC, 2-POLE, WITH INDICATOR, 10A CONTACTS
12	IDEC	GT3A-3AF20	TIMER, ON DELAY, 120VAC
13	IDEC	GT3F-2AF20	TIMER, OFF DELAY, 120VAC
14	CRADLEPOINT	IBR650LPE-VZ	CELLULAR MODEM
15	ALTEC CORP.	PS-S10024	24VDC POWER SUPPLY, 4.2A, 96W
16	EMERSON PACSYSTEMS	IC695PSA140	RX3i PLC POWER SUPPLY, 120VAC INPUT, 40W
17	EMERSON PACSYSTEMS	IC695CHS007	RX3i 7-SLOT CPU RACK
18	EMERSON PACSYSTEMS	IC695CPE305	RX3i CPU MODULE, ETHERNET
19	EMERSON PACSYSTEMS	IC694MDL645	RX3i DISCRETE INPUT MODULE, 16-PT, 24VDC SINKING
20	EMERSON PACSYSTEMS	IC694MDL732	RX3i DISCRETE OUTPUT MODULE, 8-PT, 24VDC SOURCING
21	EMERSON PACSYSTEMS	IC694ALG223	RX3i ANALOG INPUT MODULE, 16-PT, SINGLE ENDED CURRENT INPUT
22	EMERSON PACSYSTEMS	IC695ACC400	ENERGY PACK
23	N-TRON	105-TX	ETHERNET SWITCH, 5-PORT, 10/100 BASE TX RJ-45, 24VDC
24	WEIDMULLER	6720005421	RECEPTACLE, DIN MOUNT, DUPLEX 15A
25	WEIDMULLER	1010000000	TERMINAL BLOCKS, FEED THROUGH, GROUNDING
26	WEIDMULLER	1020000000	TERMINAL BLOCKS, FEED THROUGH, BEIGE
27	WEIDMULLER	1020080000	TERMINAL BLOCKS, FEED THROUGH, BLUE
28	WEIDMULLER	1014100000	TERMINAL BLOCK, FUSED W/BFI, 24V, BEIGE, 1/4"X1-1/4"
29	WEIDMULLER	1014300000	TERMINAL BLOCK, FUSED W/BFI, 120V, BEIGE, 1/4"X1-1/4"
30	WEIDMULLER	1011300000	TERMINAL BLOCK, FUSED W/BFI, 24V, BEIGE, 5X20MM
31	BUSSMAN	MDL-2	FUSE, 120VAC, SLOW BLOW, 1/4"X1-1/4", 2 AMP
32	BUSSMAN	MDL-5	FUSE, 120VAC, SLOW BLOW, 1/4"X1-1/4", 5 AMP
33	BUSSMAN	MDL-3	FUSE, 120VAC, SLOW BLOW, 1/4"X1-1/4", 3 AMP
34	BUSSMAN	AGC-3	FUSE, 24VDC, FAST ACTING, 1/4"X1-1/4", 3 AMP
35	BUSSMAN	AGC-1	FUSE, 24VDC, FAST ACTING, 1/4"X1-1/4", 1 AMP
36	BUSSMAN	GMA-63mA	FUSE, ANALOG DISCONNECT, FAST ACTING, 5X20MM, 63mA
37	CRADLEPOINT	170668-000	OMNIDIRECTIONAL ANTENNA
38	IDEC	RH2B-UL-DC24V	POWER RELAY, 24VDC, 2-POLE, WITH INDICATOR, 10A CONTACTS
39	ALLEN BRADLEY	800HC-AR2A	PUSHBUTTON, NEMA 4X, BLACK, 1-NO/1-NC
40	ALLEN BRADLEY	800HC-QRTH10R	PUSH-TO-TEST PILOT LIGHT, 120VAC, RED, NEMA 4X
41	ALLEN BRADLEY	800HC-QRTH10W	PUSH-TO-TEST PILOT LIGHT, 120VAC, WHITE, NEMA 4X

NOTE: THE CONTRACTOR SHALL DETERMINE MATERIAL QUANTITIES.

OTAY VILLAGE 8 WEST
MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS

E-12

OTAY WATER DISTRICT

PROJECT#: D1044-090422 W980, W711

PERMIT#: DEV-19-013 P.Z.: R815, R680

John Thayer Digitally signed by John Thayer Date: 2021.12.27 17:18:23-08'00'

REVIEWED BY: DATE:

REGISTERED PROFESSIONAL ENGINEER JOSEPH M. MORAES No. E11023 Exp. 6/30/23 ELECTRICAL STATE OF CALIFORNIA

MORAES / PHAM & ASSOCIATES
2131 Palomar Airport Rd. #120
Carlsbad, CA 92011

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd
Contractor					
Inspector					
Date Completed					

BENCH MARK

DESCRIPTION : BRASS DISK MKD. "SD CITY ENGR." IN 3/4" IRON PIPE 0.5 MI S'LY OF INTX LA MEDIA RD & BIRCH RD SO SIDE OF GRAVEL RD 225'+- W OF GATE TO A.V.R.TRACKING STA 15'+- E OF METAL GATE.(PT # 13-44 PER R.O.S. 14841) ELEVATION = 520.425 (NAVD '88)

SCALE

Horizontal N/A

Vertical N/A

Designed By SDN | Drawn By CAD | Checked By JMM

Plans Prepared Under Supervision Of JOE M. MORAES Date 01.04.22 R.C.E. No. E11023

Submitted By Planning | Land Arch

Approved By Principal Civil Engineer

CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT

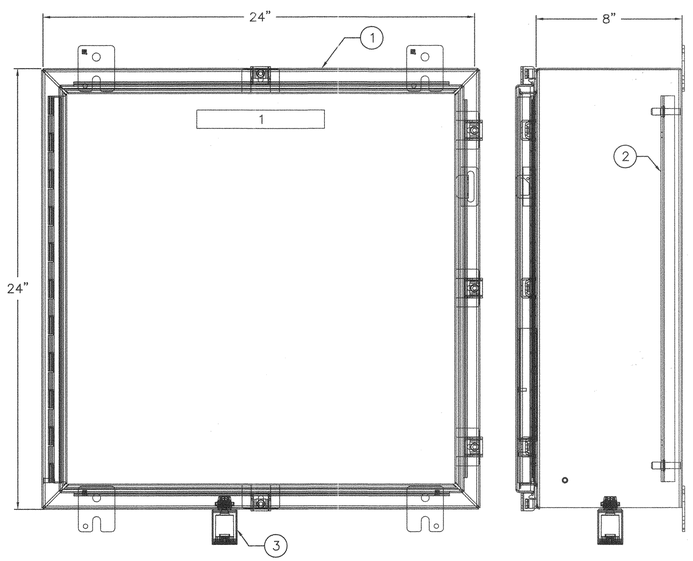
IMPROVEMENT PLANS FOR: MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS

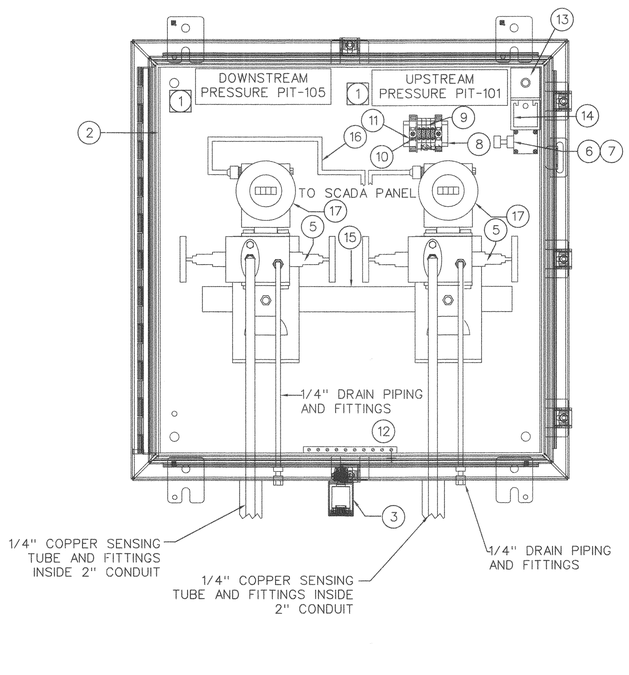
SCADA PANEL BILL OF MATERIALS

Drawing No. 20041-20

W.O. No. OR657I

O.W.D. NO. D1044-090422
DEV-19-013





BILL OF MATERIALS

ITEM	MANUFACTURER	MODEL NO.	DESCRIPTION
1	HOFFMAN	A-24H2408ALLP	ALUMINUM NEMA 4X ENCLOSURE, 24"H X 24"W X 8"D
2	HOFFMAN	A-36P30	21" X 21" STEEL BACK PANEL
3	HOFFMAN	AVDR4NM	VENT DRAIN
4	NOT USED	-	-
5	FOXBORO	D0197MJ	316 SS 2-VALVE MANIFOLD
6	ALLEN BRADLEY	802T-AP	PLUG-IN STYLE OILTIGHT LIMIT SWITCH SPRING RETURN
7	ALLEN BRADLEY	802T-W17	ADJUSTABLE OPERATING LEVER FOR LIMIT SWITCH
8	ALLEN BRADLEY	199-DR1	SYMMETRICAL RAIL 35 MM X 7.5 MM X 3.28' LONG
9	PHOENIX CONTACT	3004362	UK 5 N FEED THROUGH MODULAR TERMINAL BLOCK
10	PHOENIX CONTACT	3003020	D-UK 4/10 TERMINAL BLOCK END COVER SINGLE LEVEL
11	PHOENIX CONTACT	0800886	E/NS 35 N TERMINAL BLOCK END CLAMP
12	GE	TGK12	12 HOLE EQUIPMENT GROUND BAR
13	UNISTRUT	P1723(EG)	1-5/8" X 1-5/8" UNISTRUT 90
14	UNISTRUT	P1000T(EG)	1-5/8" GALVANIZED UNISTRUT
15	UNISTRUT	P3300T(EG)	7/8" GALVANIZED UNISTRUT
16	BELDEN	3090A	16/2 TWISTED SHIELDED PAIR
17	FOXBORO	SEE SECTION 17430	PRESSURE TRANSMITTERS WITH MOUNTING BRACKETS

NOTE: THE CONTRACTOR SHALL DETERMINE MATERIAL QUANTITIES.

(A) E-10 PIT CABINET ELEVATION

NEMA 4X ENCLOSURE
(24"H X 24"W X 8"D)
5052 H-32 ALUMINUM WITH LIGHT TAN POWDER COATED FINISH

PIT CABINET SIDE VIEW

PIT CABINET BACKPAN

NOTES:

(1) PRESSURE TRANSMITTERS SHOWN FOR 815/681 ZONE PR STATION. TYPICAL FOR 980/711 ZONE PR STATION. SEE TABLE A FOR MORE INFORMATION.

TABLE A

	PRESSURE TRANSMITTER
DOWNSTREAM 815/680 ZONE PR STATION	PIT-105
UPSTREAM 815/680 ZONE PR STATION	PIT-101
DOWNSTREAM 980/711 ZONE PR STATION	PIT-205
UPSTREAM 980/711 ZONE PR STATION	PIT-201

NAME PLATE SCHEDULE

TAG #	QTY	TYPE	SIZE	INSCRIPTION
1	1	PLATE	1" X 8"	PIT CABINET

OTAY VILLAGE 8 WEST
MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS

\\ARTIC\DWG\646381\PRS\P2_980-711\GWP2_02_G-2_MAPS.DWG 09-22-20 14:26:14 LAYOUT: 24X36

UTILITY NOTE

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PROJECT#: D1044-090422
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REVIEWED BY: DATE:

REGISTERED PROFESSIONAL ENGINEER JOSEPH M. MORAES No. E11023 Exp. 6/30/23 ELECTRICAL STATE OF CALIFORNIA

E-13

MORAES / PHAM & ASSOCIATES
2131 Palomar Airport Rd. #120
Carlsbad, CA 92011

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd
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SCALE
Horizontal N/A
Vertical N/A

Designed By SDN | Drawn By CAD | Checked By JMM
Plans Prepared Under Supervision Of
JOE M. MORAES Date 01.04.22
R.C.E. No. E11023

Submitted ____ By ____ Planning | Land Arch
Approved ____ By ____ Principal Civil Engineer

CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT

IMPROVEMENT PLANS FOR: MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS

TYPICAL PIT CABINET LAYOUT

Drawing No. 20041-21
W.O. No. OR6571

O.W.D. NO. D1044-090422
DEV-19-013

INSTRUMENT SYMBOL IDENTIFIERS

J-3 J-4, J-5 J-1 J-2 J-6

J-1: IDENTIFICATION LETTERS (SEE TABLE BELOW)
J-2: LOOP NUMBER
J-3: VENDOR DESIGNATOR (NOTE 3)
J-4: FUNCTION BLOCK (SEE TABLE BELOW)
J-5: PANEL NUMBER
J-6: HANDSWITCH DESIGNATOR (SEE BELOW)

	FIRST LETTER		SUCCEEDING LETTERS		
	MEASURED OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
A	ANALYSIS		ALARM		
B	BURNER, COMBUSTION		USER'S CHOICE	USER'S CHOICE	USER'S CHOICE
C	USER'S CHOICE			CONTROL	CLOSED
D	DENSITY	DIFFERENTIAL	DAMPER		
E	VOLTAGE		SENSOR (PRIMARY ELEMENT)		
F	FLOW RATE	RATIO (FRACTION)			
G	USER'S CHOICE		GLASS, VIEWING DEVICE		
H	HAND				HIGH
I	CURRENT (ELECTRICAL)		INDICATE		
J	POWER	SCAN			
K	TIME, TIME SCHEDULE	TIME RATE OF CHANGE		CONTROL STATION	
L	LEVEL		LIGHT		LOW
M	MOISTURE	MOMENTARY			MIDDLE, INTERMEDIATE
N	USER'S CHOICE		USER'S CHOICE	USER'S CHOICE	USER'S CHOICE
O	USER'S CHOICE		ORIFICE, RESTRICTION		OPEN
P	PRESSURE, VACUUM		POINT (TEST) CONNECTION		
Q	QUANTITY	INTEGRATE, TOTALIZE			
R	RADIATION		RECORD		
S	SPEED, FREQUENCY	SAFETY	SWITCH		
T	TEMPERATURE			TRANSMIT	
U	MULTI VARIABLE		MULTIFUNCTION	MULTIFUNCTION	MULTIFUNCTION
V	VIBRATION, MECHANICAL ANALYSIS			VALVE, DAMPER, OR LOUVER	
W	WEIGHT, FORCE		WELL		
X	UNCLASSIFIED	X AXIS	UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED
Y	EVENT, STATE, PRESENCE	Y AXIS		RELAY, COMPUTE, CONVERT	
Z	POSITION, DIMENSION	Z AXIS		DRIVER, ACTUATOR, UNCLASSIFIED FINAL CONTROL ELEMENT	

GENERAL INSTRUMENT OR FUNCTION SYMBOLS	FIELD MOUNTED	PRIMARY LOCATION ACCESSIBLE TO OPERATOR	AUXILIARY LOCATION ACCESSIBLE TO OPERATOR	NORMALLY INACCESSIBLE OR BEHIND THE PANEL
DISCRETE INSTRUMENTS				
SHARED DISPLAY, SHARED CONTROL				
COMPUTER FUNCTION				
PROGRAMMABLE LOGIC CONTROL				

J-4 FUNCTION BLOCK DESIGNATORS

- Σ SUMMING
- Δ DIFFERENCE
- Σ/n AVERAGING
- d/dt DERIVATIVE
- X MULTIPLYING
- ÷ DIVIDING
- %/% CONVERT:
- √ ROOT EXTRACTION
- √ SQUARE ROOT
- x^n EXPONENTIAL
- > HIGH SELECTING
- < LOW SELECTING
- P PROPORTIONAL
- 1:1 RATIO

*E – VOLTAGE, I – CURRENT, P – PNEUMATIC, A – ANALOG, B – BINARY, H – HYDRAULIC, O – ELECTROMAGNETIC, SONIC, R – RESISTANCE (ELECT), D – DIGITAL

J-6 HANDSWITCH DESIGNATORS

HOA	HAND–OFF–AUTO	LR	LOCAL–REMOTE
HOR	HAND–OFF–REMOTE	OC	OPEN–CLOSE
F–R	FORWARD–REVERSE	OCA	OPEN–CLOSE–AUTO
1–0	ON–OFF	AM	AUTO/MANUAL

INSTRUMENT SERVICES

- AS – INSTRUMENT AIR SUPPLY (NOTE 4)
- ES – 120 VAC ELECTRICAL SERVICE (DIFFERENT VOLTAGES ARE SPECIFICALLY NOTED)

PLC INPUT/OUTPUT

- △ DISCRETE INPUT
- ▲ ANALOG INPUT
- ▽ DISCRETE OUTPUT
- ▼ ANALOG OUTPUT

ABBREVIATIONS

- HMI – HUMAN MACHINE INTERFACE
- OIT – OPERATOR INTERFACE TERMINAL

FLOW PRIMARY ELEMENTS

- ORIFICE PLATE
- SINGLE PORT PITOT TUBE OR PITOT–VENTURI TUBE
- VENTURI TUBE
- AVERAGING PITOT TUBE
- FLUME
- WEIR
- TURBINE OR PROPELLER–TYPE PRIMARY ELEMENT
- THERMAL MASS FLOWMETER
- POSITIVE DISPLACEMENT TYPE FLOW TOTALIZING INDICATOR
- VORTEX SENSOR
- TARGET TYPE SENSOR
- FLOW NOZZLE
- MAGNETIC FLOWMETER (M)
- SONIC FLOWMETER
- ROTAMETER
- ROTAMETER WITH INTEGRAL VALVE

LINES

- MAIN PROCESS
- SECONDARY PROCESS
- X N–1 — CONTINUED ON DWG N–___ AT A SIMILAR ARROW WITH LETTER X.
- VAR. — CONTINUED ON MULTIPLE SHEETS
- PROCESS INTERFACE CONNECTION POINT NOT SHOWN IN DRAWINGS
- 24" BW — PIPE SYSTEM, PIPE SIZE IN INCHES
- ELECTRICAL SIGNAL
- SOFTWARE OR DATALINK
- PNEUMATIC
- HYDRAULIC
- CAPILLARY TUBE
- ELECTROMAGNETIC OR SONIC (GUIDED)
- MECHANICAL OR — CONNECTED
- ELECTRICAL — CONNECTED
- NOT CONNECTED

VALVES

- GATE VALVE
- KNIFE GATE VALVE
- ROTARY VALVE
- PLUG VALVE
- CHECK VALVE
- BALL CHECK VALVE
- PINCH VALVE
- DIAPHRAGM VALVE
- BUTTERFLY VALVE
- BALL VALVE
- NEEDLE VALVE
- PLUG (COCK)
- PRESSURE REDUCING REGULATING VALVE, SELF–CONTAINED
- BACK PRESSURE REGULATING VALVE, SELF–CONTAINED
- PRESSURE REDUCING REGULATOR WITH EXTERNAL PRESSURE TAP
- 3–WAY VALVE
- 4–WAY VALVE
- ANGLE VALVE
- PRESSURE RELIEF VALVE
- *FC = FAIL CLOSED LC = LOCKED CLOSED FO = FAIL OPEN LO = LOCKED OPEN
- CLOSED DURING NORMAL OPERATION
- SHADING INDICATES PORT TO BE CLOSED DURING NORMAL OPERATION. DOT INDICATES PORT TO BE CLOSED DURING ALTERNATE OPERATION.

VALVE OPERATORS

- DIAPHRAGM
- CYLINDER OPERATOR
- DIAPHRAGM PRESSURE BALANCED
- SOLENOID
- (M) MOTOR
- (SV) SOLENOID VALVE

TYPICAL CONNECTION

- IN–LINE DEVICE
- DIRECT CONNECTION TO PROCESS
- TEMPERATURE ELEMENT WITH WELL
- RADIATION OR SONIC SENSING
- FILLED SYSTEM, DIAPHRAGM SEAL CONNECTION

MISCELLANEOUS

- FLANGE
- UNION
- Y STRAINER
- FLOW STRAIGHTENING VANE
- TEE
- SCREWED CAP
- WELDED CAP
- BLIND FLANGE
- REDUCER
- HB HOSE BIBB CONNECTION
- DIAPHRAGM SEAL
- RUPTURE DISK, PRESSURE
- RUPTURE DISK, VACUUM
- P PURGE
- DRAIN
- THERMOMETER WELL
- 1 / I 3 INTERLOCK. NUMBER IS THE CROSS REFERENCE TO A SPECIFIC ELEMENTARY DIAGRAM OR TO A SPECIFIC CONTROL STRATEGY DESCRIBED IN THE SPECS
- EXPANSION JOINT
- FLEXIBLE COUPLING
- FLANGED COUPLING ADAPTER
- SLUICE GATE OR SLIDE GATE
- *AV – AIR VALVE, F – FILTER, T – TRAP, FH – FIRE HYDRANT
- WATER LINE
- GRAVITY FLOW
- AIR RELIEF VALVE
- AIR RELEASE
- LEVEL PROBE
- CHEMICAL DIFFUSER
- STATIC MIXER
- CALIBRATION CYLINDER
- PULSATION DAMPER
- ULTRASONIC LEVEL INSTRUMENT
- LEVEL FLOAT SWITCH

EQUIPMENT

- MIXER
- VERTICAL PUMP
- SUBMERSIBLE PUMP
- CENTRIFUGAL PUMP, BLOWER, OR FAN
- FLUID PUMP
- METERING PUMP
- PUMP PROGRESSIVE CAVITY
- ROTARY GEAR PUMP
- PRS PUMP
- CHEMICAL INJECTION QUILL

NOTES:

1. THIS IS A GENERALIZED LEGEND SHEET. THIS CONTRACT MAY NOT USE ALL INFORMATION SHOWN.
2. INFORMATION SHOWN MAY NOT BE ALL INCLUSIVE. SEE ALSO ISA S5.1, S5.3 AND S7.3.
3. INSTRUMENTS MARKED WITH AN ASTERISK ARE FURNISHED WITH THE EQUIPMENT.
4. REFER TO ISA RP7.7 FOR INSTRUMENT AIR QUALITY STANDARDS.

OTAY VILLAGE 8 WEST
MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS

I-1

UTILITY NOTE

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CITY "AS–BUILT"

(SIGNATURE) DATE
(PRINTED NAME) P.E. NO.:
MY REGISTRATION EXPIRES: DISCIPLINE

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OTAY WATER DISTRICT

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John Thayer — Digitally signed by John Thayer, Date: 2021.12.27 17:18:56-08'00'
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REGISTERED PROFESSIONAL ENGINEER — JOSEPH M. MORAES — No. E11023 — Exp. 6/30/23 — ELECTRICAL — STATE OF CALIFORNIA

MORAES / PHAM & ASSOCIATES
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SCALE: Horizontal N/A; Vertical N/A

Designed By	Drawn By	Checked By
SDN	CAD	JMM

Plans Prepared Under Supervision Of
JOE M. MORAES — Date 01.04.22 — R.C.E. No. E11023

Submitted By
Planning | Land Arch

Approved By
Principal Civil Engineer

CITY OF CHULA VISTA — DEVELOPMENT SERVICES DEPARTMENT

IMPROVEMENT PLANS FOR: MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS

INSTRUMENTATION SYMBOLS AND LEGEND

Drawing No. 20041-22
W.O. No. OR6571

O.W.D. NO. D1044–090422
DEV–19–013

\\ARTIC\DWG\646381\PRS\P2_980-711\DWP2_02_0-2_MAPS.DWG 09-22-20 14:26:14 LAYOUT: 24X36

CENTRAL HMI/SCADA

PLC

SCADA PANEL

INTRUSION YA 100B

HIGH PRESS. S.P. PAH 101 PK 101A

HIGH HIGH PRESS. S.P. PAHH 101 PK 101B

UPSTREAM PRESSURE PI 101B

LOW PRESS. S.P. PK 101C PAL 101

LOW LOW PRESS. S.P. PK 101D PALL 101

FLOW FI 103B ZLC 103B

FLOW FI 104B ZLC 104B

HIGH PRESS. S.P. PAH 105 PK 105A

HIGH HIGH PRESS. S.P. PAHH 105 PK 105B

DOWNSTREAM PRESSURE PI 105B

LOW PRESS. S.P. PK 105C PAL 105

LOW LOW PRESS. S.P. PK 105D PALL 105

PSH 101 PSHH 101 PSL 101 PSLL 101

PSH 105 PSHH 105 PSL 105 PSLL 105

INTRUSION A I-3

OR

UTILITY POWER FAIL JA 110B

INTRUSION YA 110B

ALARM RESET YL 110B

UPS FAIL EA 110B

YA 100A

PI 101A

FI ZLC 103A

FI ZLC 104A

PI 105A

YS 110A JS 110A JA 110A YA 110A YL 110A EA 110A

YL 110 JL 110 JS 110 ZS 110 HS 110 FS 110

ZS 100

PIT 101

PIT CABINET

PIT 105

PI 100

PI 101

FIT 103 ZSC 103

FIT 104 ZSC 104

PI 105

PI 106

FROM PRESSURE ZONE 815 DISTRIBUTION SYSTEM

8"

2"

6"

2"

6"

8"

TO PRESSURE ZONE 680 DISTRIBUTION SYSTEM

815/680 RECYCLED WATER PRESSURE REDUCING STATION

OTAY VILLAGE 8 WEST
MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS

I-2

\\ARTIC\DWG\646381\PRS\P2_980-711\WBWP2_02_G-2_MAPS.DWG 09-22-20 14:26:14 LAYOUT: 24X36

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Date Completed					

BENCH MARK

DESCRIPTION : BRASS DISK MKD. "SD CITY ENGR." IN 3/4" IRON PIPE 0.5 MI S'LY OF INTX LA MEDIA RD & BIRCH RD S'D SIDE OF GRAVEL RD 225'+/- W OF GATE TO A.V.R.TRACKING STA 15'+/- E OF METAL GATE.(PT # 134 PER R.O.S. 14841) ELEVATION = 520.425 (NAVD '88)

SCALE
Horizontal N/A
Vertical N/A

Designed By	Drawn By	Checked By
SDN	CAD	JMM

Plans Prepared Under Supervision Of

JOE M. MORAES Date 01-04-22 R.C.E. No. E11023

Submitted By

Planning Land Arch

Approved By

Principal Civil Engineer

CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT

IMPROVEMENT PLANS FOR: MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS

PRESSURE REDUCING STATION P&ID 1

Drawing No. 20041-23

W.O. No. OR6571

O.W.D. NO. D1044-090422
DEV-19-013

MORAES/PHAM & ASSOCIATES
2131 Palomar Airport Rd. #120
Carlsbad, CA 92011

CENTRAL HMI/SCADA

PLC

SCADA PANEL

INTRUSION

INTRUSION I–2 A

YA 200B

HIGH PRESS. S.P. PAH 201 PK 201A

HIGH HIGH PRESS. S.P. PAHH 201 PK 201B

UPSTREAM PRESSURE PI 201B

LOW PRESS. S.P. PK 201C PAL 201

LOW LOW PRESS. S.P. PK 201D PALL 201

FLOW FI 203B ZLC 203B

FLOW FI 204B ZLC 204B

HIGH PRESS. S.P. PAH 205 PK 205A

HIGH HIGH PRESS. S.P. PAHH 205 PK 205B

DOWNSTREAM PRESSURE PI 205B

LOW PRESS. S.P. PK 205C PAL 205

LOW LOW PRESS. S.P. PK 205D PALL 205

CLOSED OPEN STATUS ALARM ZLC 207B YA 207

PSH 201

PSHH 201

PSL 201

PSLL 201

PSH 205

PSHH 205

PSL 205

PSLL 205

ZSO 207

YA 200A

PI 201A

FI 203A ZLC 203A

FI 204A ZLC 204A

PI 205A

ZLC 207A

ZS 200

PIT 201

PIT CABINET

PIT 205

PI 201

PI 205

FIT 203 ZSC 203

FIT 204 ZSC 204

FROM PRESSURE ZONE 980 DISTRIBUTION SYSTEM

12"

8"

4"

PI 200

PI 206

ZSC 207

8"

12"

4"

TO PRESSURE ZONE 711 DISTRIBUTION SYSTEM

TO DRAIN

980/711 POTABLE WATER PRESSURE REDUCING STATION

OTAY VILLAGE 8 WEST
MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS

I-3

UTILITY NOTE	CITY "AS-BUILT"	O.W.D. "AS-BUILT"	OTAY WATER DISTRICT
ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	(SIGNATURE) DATE (PRINTED NAME) P.E. NO.: MY REGISTRATION EXPIRES: DISCIPLINE	(SIGNATURE) DATE (PRINTED NAME) P.E. NO.: MY REGISTRATION EXPIRES: DISCIPLINE	PROJECT#: D1044-090422 W980, W711 PERMIT#: DEV-19-013 P.Z.: R815, R680 John Thayer Digitally signed by John Thayer Date: 2021.12.27 17:19:30-08'00' REVIEWED BY: DATE:

REGISTERED PROFESSIONAL ENGINEER JOSEPH M. MORAES No. E11023 Exp. 6/30/23 ELECTRICAL STATE OF CALIFORNIA

MORAES/PHAM & ASSOCIATES
2131 Palomar Airport Rd. #120
Carlsbad, CA 92011

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd
Contractor					
Inspector					
Date Completed					

BENCH MARK
DESCRIPTION : BRASS DISK MKD. "SD CITY ENGR." IN 3/4" IRON PIPE 0.5 MI S'LY OF INTX LA MEDIA RD & BIRCH RD S'LY SIDE OF GRAVEL RD 225'+– W OF GATE TO A.V.R.T.RACKING STA 15'+– E OF METAL GATE.(PT # 13-4 PER R.O.S. 14841) ELEVATION = 520.425 (NAVD '88)

SCALE: Horizontal N/A; Vertical N/A

Designed By	Drawn By	Checked By
SDN	CAD	JMM

Plans Prepared Under Supervision Of
JOE M. MORAES
Date 01.04.22
R.C.E. No. E11023

Submitted ____ By ____ Planning ____ Land Arch ____

Approved ____ By ____ Principal Civil Engineer

CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT

IMPROVEMENT PLANS FOR: MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS

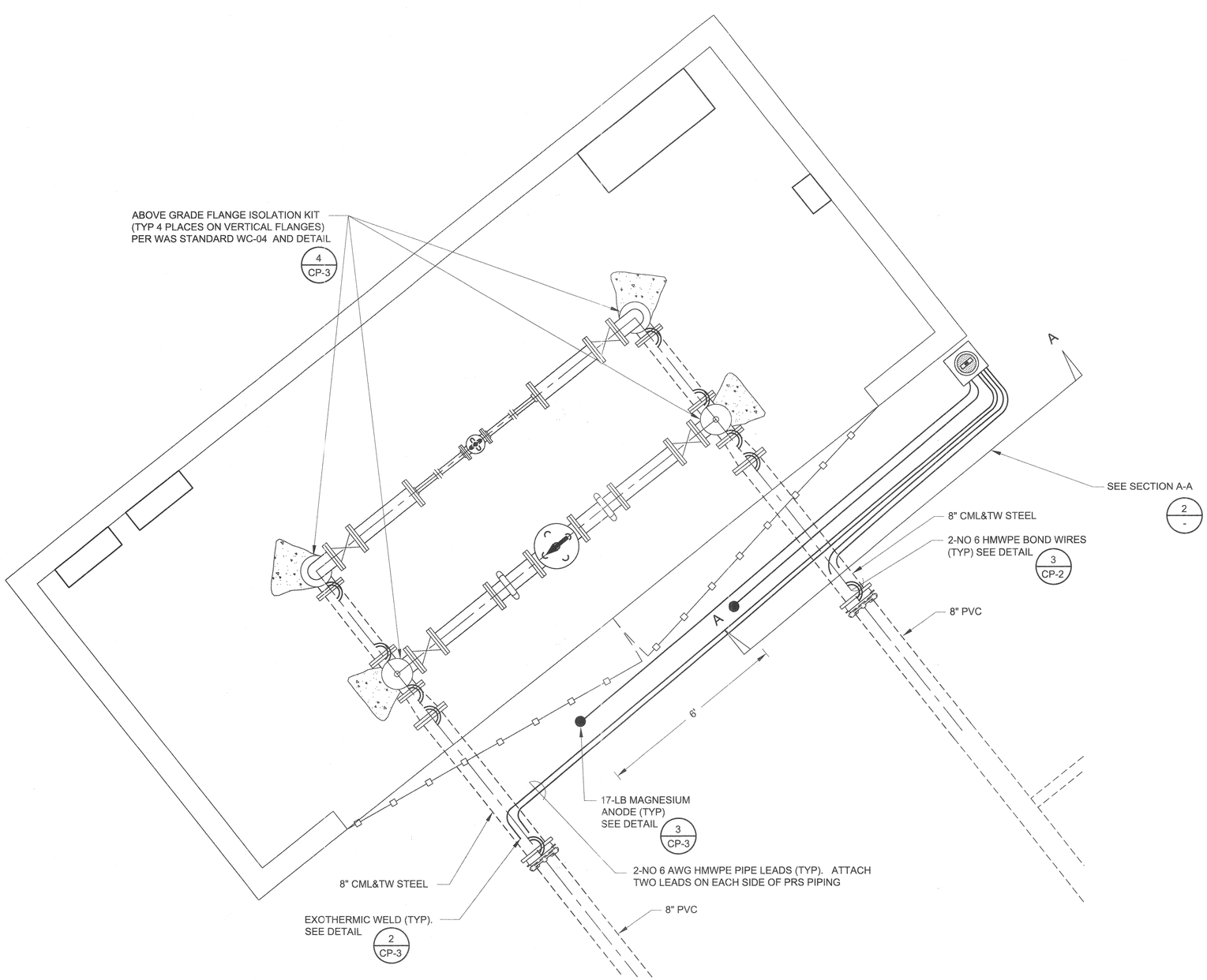
PRESSURE REDUCING STATION P&ID 2

Drawing No. 20041-24

W.O. No. OR6571

O.W.D. NO. D1044-090422
DEV-19-013

\\ARTIC\DWG\646381\PRS\P2_980-711\WSWP2_02_G-2_MAPS.DWG 09-22-20 14:26:14 LAYOUT: 24X36

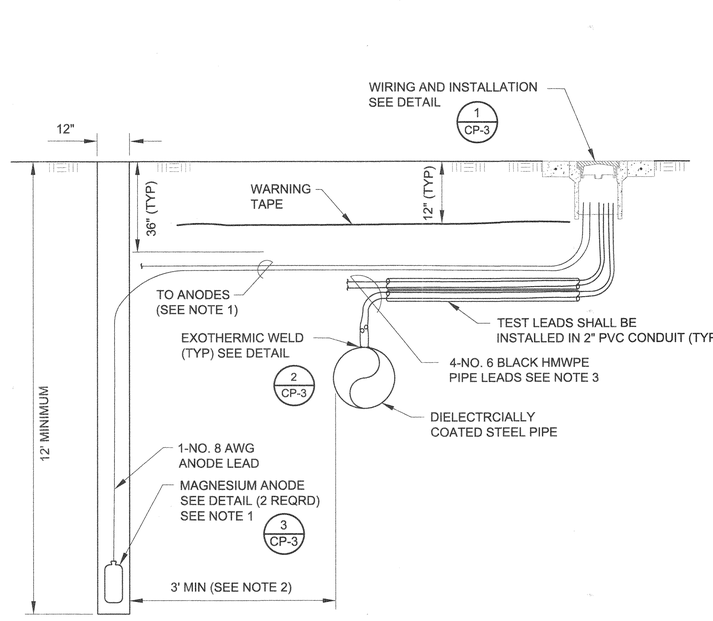


815/680 PRS CATHODIC PROTECTION SITE PLAN (1 / M-1)

NOT TO SCALE

GENERAL CATHODIC PROTECTION NOTES

1. ALL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THESE DRAWINGS AND THE WAS STANDARD SPECIFICATIONS.
2. .. UNLESS OTHERWISE NOTED DRAWINGS ARE NOT SHOWN TO SCALE.
3. ALL TEST STATIONS SHALL BE CIRCULAR, CONCRETE, TRAFFIC RATED, AT-GRADE TYPE WITH A METAL LID.
   - A. PROVIDE 18" OF SLACK WIRE AT WELD TO PIPE CONNECTIONS AND ALSO INSIDE OF TEST BOX.
   - B. THE BOTTOM OF THE TEST BOX SHALL BE NATIVE SOIL.
   - C. A REINFORCED CONCRETE PAD (24" SQUARE X 6" THICK) IS REQUIRED AROUND TEST BOXES LOCATED IN UNPAVED AREAS.
   - D. PLACE TEST BOX AS SHOWN IN DESIGN DETAILS. DO NOT PLACE IN STREET, GUTTER, OR MEDIAN.
   - E. TOP OF TEST BOX SHALL BE 1-INCH ABOVE FINISHED GRADE IF INSTALLED IN LANDSCAPED OR UNIMPORVED AREAS AND SHALL HAVE A 2% SLOPE TO PREVENT PONDING.
4. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ADJACENT STRUCTURES AND UTILITIES AND FOR AVOIDING DAMAGE TO, AND CONFLICT, WITH THESE STRUCTURES OR UTILITIES.
5. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 7 DAYS PRIOR TO ANY INSTALLATIONS OR TRENCHING AND SHALL COMPLY WITH INSPECTION REQUIREMENTS AS INDICATED IN THE SPECIFICATIONS. THE INSTALLATION OF ANODES AND INSULATORS BED MUST BE IN THE PRESENCE OF THE ENGINEER OR DESIGNATED REPRESENTATIVE.
6. THE CONTRACTOR SHALL DOCUMENT ALL CHANGES FROM THESE DRAWINGS AND SUBMIT 'AS-BUILT' DRAWINGS TO THE ENGINEER PRIOR TO COMPLETION OF THE WORK.
7. NO WIRE OR CABLE SPLICES ARE PERMITTED.
8. BOND ALL NON-WELDED JOINTS, WHICH ARE NOT DESIGNATED AS INSULATING JOINTS, PER DETAIL 3, SHEET CP-2.
9. THE CONTRACTOR TO REPLACE LANDSCAPING IN KIND.
10. ALL FLANGE ISOLATION KITS SHALL BE INSPECTED AND TESTED BY THE OWNER PRIOR TO BEING ACCEPTED.
11. ALL NON-COATED BURIED STEEL PIPE SHALL BE WAX TAPE COATED PER AWWA C217 WITH PLASTIC OUTER-WRAP.
12. CONTRACTOR SHALL RECORD LENGTH OF INSTALLED BOND WIRES TO FACILITATE ELECTRICAL CONTINUITY TESTING.
13. ALL WIRES SHALL BE LABELED PER WAS STD WC-09.



NOTES:

1. ONE ANODE SHOWN IN SECTION A-A, 2 ARE REQUIRED. ANODES TO BE INSTALLED PARALLEL TO THE PIPE, 6 FEET APART IN AUGERED HOLES 12' DEEP. ANODE LEADS TO BE TRENCHED TO CTS AT A DEPTH OF 36".
2. INSTALL ANODES INSIDE RIGHT OF WAY AND AT AN 3' MINIMUM DISTANCE FROM PIPE.
3. CONTRACTOR TO MAINTAIN WIRE IDENTIFICATION DURING AND AFTER BACKFILL
4. PLACE TEST BOX AS SHOWN IN CP SITE PLAN ON SHEET CP-1.

SECTION A-A TEST STATION WITH ANODES (2 / -)

NOT TO SCALE

OTAY VILLAGE 8 WEST
MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS

CP-1

UTILITY NOTE	CITY "AS-BUILT"	O.W.D. "AS-BUILT"	OTAY WATER DISTRICT
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REGISTERED PROFESSIONAL ENGINEER (QUARD F. TEAGER) NO. 70686 CIVIL STATE OF CALIFORNIA

R F Yeager ENGINEERING
CORROSION ENGINEERING CONSULTANTS
1016 BROADWAY, SUITE A PHONE: 619.312.0195
EL CAJON, CA 92021 FAX: 619.312.0197

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd
Contractor					
Inspector					
Date Completed					

BENCH MARK: DESCRIPTION = BRASS DISK, MKD. "SD CITY ENGR." IN 3/4" IRON PIPE 0.5 MI S'LY OF INTX LA MEDIA RD & BIRCH RD SO SIDE OF GRAVEL RD 225'+/- W OF GATE TO A.V.U.TRACKING STA 15'+/- E OF METAL GATE.(PT # 1344 PER R.O.S. 14841) ELEVATION = 520.425 (NAVD '88)

SCALE: Horizontal N/A; Vertical N/A

Designed By	Drawn By	Checked By
RFYJ	GPM	RJG

Plans Prepared Under Supervision Of
RICHARD F. YEAGER JR. Date 01.06.22 R.C.E. No. 70686

Submitted By ____ Planning ____ Land Arch

Approved By ____ Principal Civil Engineer

CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT

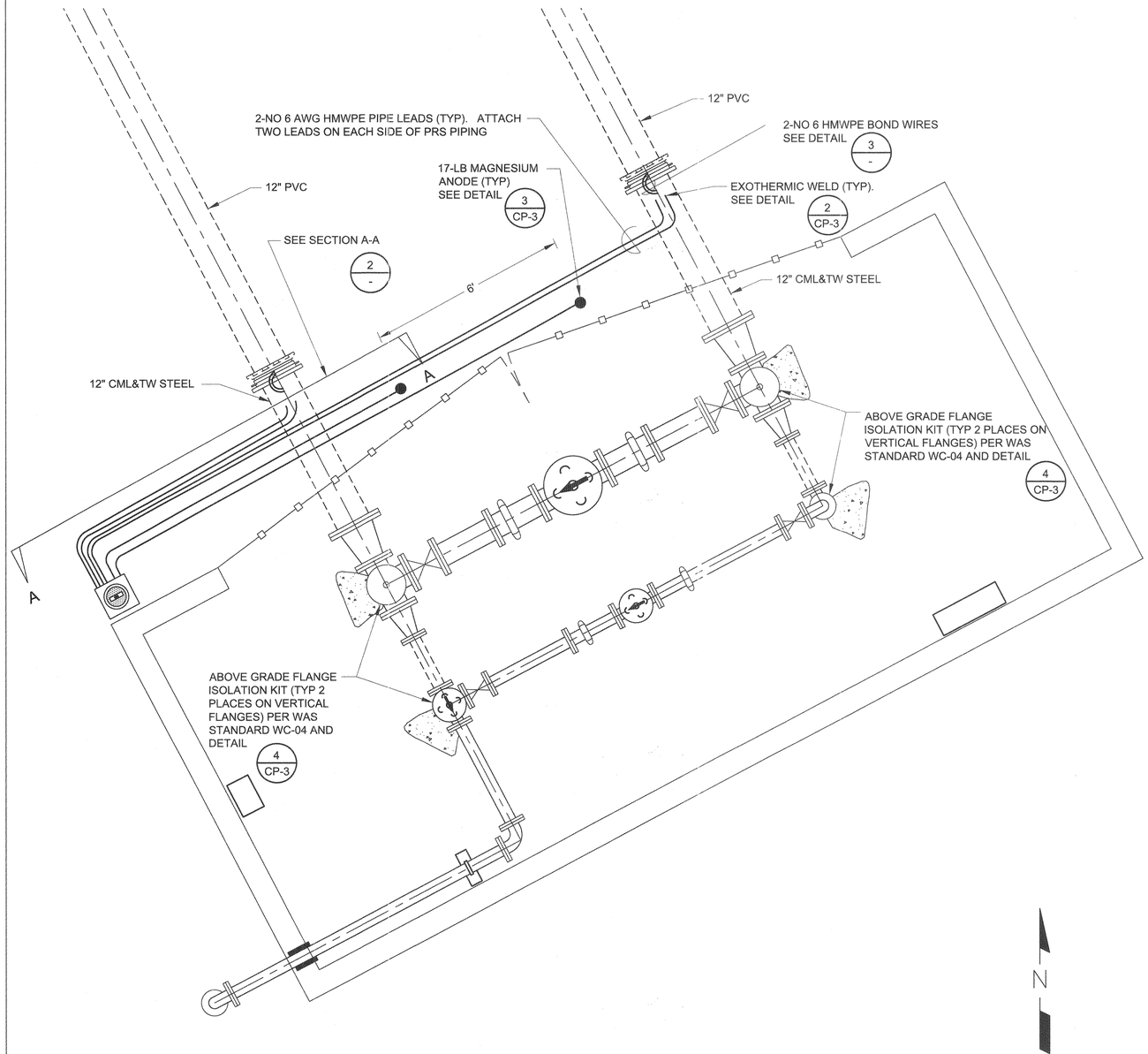
IMPROVEMENT PLANS FOR: MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS

CATHODIC PROTECTION PLAN AND DETAILS

Drawing No. 20041-25

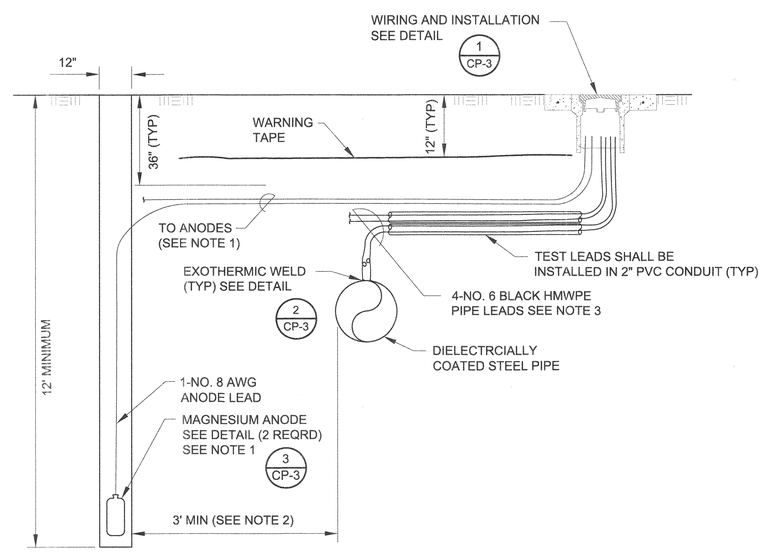
W.O. No. OR6571

O.W.D. NO. D1044-090422
DEV-19-013



980/711 PRS CATHODIC PROTECTION SITE PLAN (1/M-3)

NOT TO SCALE

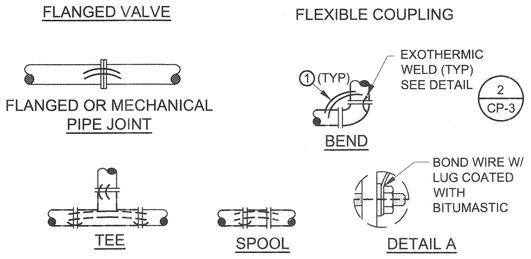


NOTES:

1. ONE ANODE SHOWN IN SECTION A-A, 2 ARE REQUIRED. ANODES TO BE INSTALLED PARALLEL TO THE PIPE, 6 FEET APART IN AUGERED HOLES 12' DEEP. ANODE LEADS TO BE TRENCHED TO CTS AT A DEPTH OF 36".
2. INSTALL ANODES INSIDE RIGHT OF WAY AND AT AN 3' MINIMUM DISTANCE FROM PIPE.
3. CONTRACTOR TO MAINTAIN WIRE IDENTIFICATION DURING AND AFTER BACKFILL
4. PLACE TEST BOX AS SHOWN IN CP SITE PLAN ON SHEET CP-1.

SECTION A-A TEST STATION WITH ANODES (2/-)

NOT TO SCALE



MATERIALS:

(1) BOND CABLE: AWG #6 COPPER ASTM B3 STRANDED ASTM B8 INSULATED ASTM D1248 TYPE 1, CLASS C GRADE 5.

NOTES:

1. ALL BOND CABLE SHALL BE INSTALLED AT MINIMUM LENGTH.
2. BOND CABLES SHALL NOT BE INSTALLED ACROSS INSULATING JOINTS.

JOINT BOND (3/VAR)

NOT TO SCALE

OTAY VILLAGE 8 WEST
MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS

CP-2

UTILITY NOTE	CITY "AS-BUILT"	O.W.D. "AS-BUILT"	OTAY WATER DISTRICT
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REGISTERED PROFESSIONAL ENGINEER RICHARD F. YEAGER No. 70686 CIVIL STATE OF CALIFORNIA

R F Yeager ENGINEERING
CORROSION ENGINEERING CONSULTANTS
1016 BROADWAY, SUITE A EL CAJON, CA 92021
PHONE: 619.312.0195 FAX: 619.312.0197

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd
Contractor					
Inspector					
Date Completed					

BENCH MARK: DESCRIPTION : BRASS DISK MKD. "SD CITY ENGR." IN 3/4" IRON PIPE 0.5 MI S'LY OF INTX LA MEDIA RD & BIRCH RD SC SIDE OF GRAVEL RD 225'+- W OF GATE TO A.V.E.TRACKING STA 15'+- E OF METAL GATE.(PT # 1344 PER R.O.S. 14841) ELEVATION = 520.425 (NAVD '88)

SCALE: Horizontal N/A; Vertical N/A

Designed By	Drawn By	Checked By
RFYJ	GPM	RJG

Plans Prepared Under Supervision Of
RICHARD F. YEAGER JR. Date 01-06-22 R.C.E. No. 70686

Submitted _____ By _____ Planning | Land Arch

Approved _____ By _____ Principal Civil Engineer

CITY OF CHULA VISTA — DEVELOPMENT SERVICES DEPARTMENT

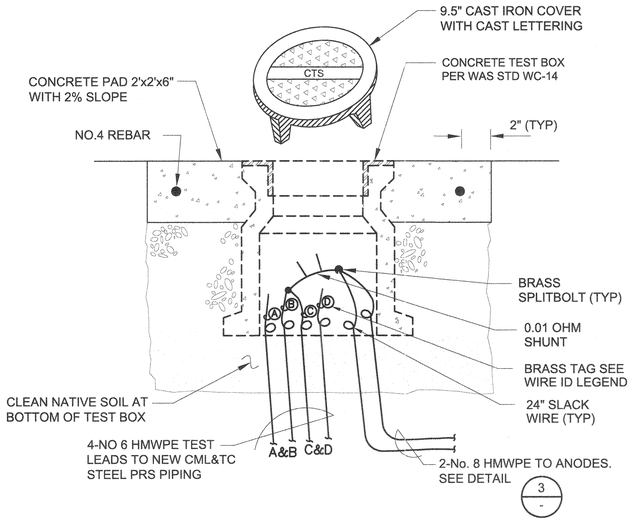
IMPROVEMENT PLANS FOR: MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS

CATHODIC PROTECTION PLAN AND DETAILS

Drawing No. 20041-26

W.O. No. OR6571

O.W.D. NO. D1044-090422
DEV-19-013



NOTES:

1. PLACE TEST BOX AS SHOWN IN CP SITE PLAN ON SHEET CP-1. DO NOT PLACE IN STREET, GUTTER, OR MEDIAN.

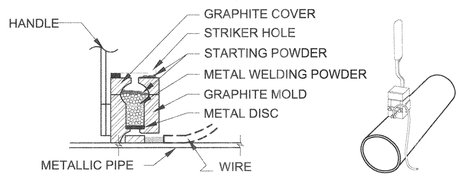
WIRE I.D. LEGEND

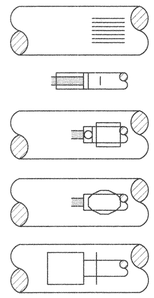
WIRES	BRASS TAG INSCRIPTION
A&B	STL PRS EAST
C&D	STL PRS WEST

2-WIRE TEST STATION WITH 2 ANODES WIRING

NOT TO SCALE

1 / CP-2





STEP 1. FILE STRUCTURE CONNECTION AREA (3 IN. x 3 IN.) TO BARE SHINY METAL AND CLEAN.

STEP 2. STRIP INSULATION FROM WIRE.

STEP 3. HOLD MOLD FIRMLY WITH OPENING AWAY FROM OPERATOR AND IGNITE WITH STRIKER.

STEP 4. REMOVE SLAG FROM CONNECTION AND PEEN WELD FOR SOUNDNESS.

STEP 5. COVER CONNECTION AND EXPOSED STRUCTURE SURFACE WITH A BITUMINOUS COATING COMPOUND. PLACE PLASTIC SHIELD CAP FIRMLY OVER CONNECTION.

EXOTHERMIC WELD NOTES:

1. ONE WELD SHALL BE USED FOR EACH.
2. CLEAN OIL OR GREASE FROM CABLE WITH A RAPID-DRYING SOLVENT. REMOVE ONLY ENOUGH INSULATION FROM THE CABLE TO ALLOW THE EXOTHERMIC WELD CONNECTION TO BE MADE.
3. REMOVE ALL COATING, DIRT, GRIME, AND GREASE FROM THE METAL STRUCTURE AT WELD LOCATIONS BY WIRE BRUSHING AND/OR USE OF SUITABLE SAFE SOLVENTS. CLEAN THE STRUCTURE TO A BRIGHT, SHINY SURFACE. THE AREA OF THE STRUCTURE WHERE THE ATTACHMENT IS TO BE MADE MUST BE DRY.
4. OPEN WELD MOLD AND PLACE METAL DISC INSIDE AT BOTTOM OF MOLD. POUR METAL WELDING POWDER INTO MOLD AND ON TOP OF METAL DISC. STARTING POWDER IS CAKED AT THE BOTTOM OF THE WELD CHARGE CONTAINER. TAP WELD CHARGE CONTAINER AND POUR HALF OF STARTING POWDER INTO WELD MOLD. CLOSE THE TOP OF WELD MOLD AND POUR THE REMAINING STARTING POWDER IN STRIKING HOLE. THE WELD MOLD IS NOW LOADED AND READY FOR USE.
5. THE LEAD WIRE IS TO BE HELD AT AN ANGLE TO THE SURFACE WHEN WELDING. ONLY ONE WIRE SHALL BE ATTACHED WITH EACH WELD. HOLD LOADED WELD MOLD FIRMLY ON PIPE AND WIRE. IGNITE STARTING POWDER IN STRIKING HOLE USING A STRIKER. HOLD WELD MOLD FIRMLY AGAINST PIPE FOR 5 SECONDS TO ALLOW FOR WELD PROCESS.
6. WELDS SHALL BE TESTED BY STRIKING THE WELD NUGGET WITH A TWO POUND HAMMER WHILE PULLING FIRMLY ON THE WIRE. ALL UNSOUND WELDS SHALL BE REMOVED, THE SURFACES RECLEANED, REWELDED, AND RETESTED. WELD SLAG SHALL BE REMOVED.
7. APPLY PRIMER AND ELASTOMERIC WELD CAP TO THE WELD AND APPLY A BITUMASTIC COATING MATERIAL TO ALL EXPOSED AREAS AROUND THE CAP AND WIRES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. THE COATING SHALL OVERLAP THE STRUCTURE COATING A MINIMUM OF 3 INCHES.

EXOTHERMIC WELD

NOT TO SCALE

2 / VAR

CHEMICAL COMPOSITION

STANDARD POT'L MAG ANODE
ASTM B843-93

ELEMENT	CONTENT %
ALUMINUM	5.3-6.7
ZINC	2.5-3.5
MANGANESE	0.15-0.70
SILICONE	0.10 MAX
COPPER	0.02 MAX
NICKEL	0.002 MAX
IRON	0.003 MAX
OTHERS,TOTAL	0.30 MAX
MAGNESIUM	REMAINDER

MAGNESIUM INGOT DIMENSIONS:
3.5" X 3.75" X 25.25" LONG INGOT
WEIGHT: 17 LBS. PKGD WEIGHT:
45 LBS. (APPROX.)

PACKAGED BACKFILL

75% GYPSUM 20%
BENTONITE 5% SODIUM
SULPHATE

MAGNESIUM ANODE

NOT TO SCALE

3 / VAR

NOTES:

1. REFER TO SECTION 13110 OF THE WAS STANDARD SPECIFICATIONS
2. USE HALF WIDTH SLEEVES AT THREADED FLANGE BOLTS (I.E. AT BFV BONNET)
3. INSULATING MATERIALS:
   GASKET: 400mm (16") OR GREATER-TYPE "E" FULLFACED PHENOLIC WITH RECTANGULAR NITRILE OR VITON O-RING SEAL. LESS THAN 400mm (16")-TYPE "E" FULLFACED NEOPRENE FACED PHENOLIC
   SLEEVE: 0.78 (1/32") THICK. FULL LENGTH TUBE, LAMINATED G-10 GLASS SHEET
   WASHER: 3.2mm (1/8") THICK LAMINATED G-10 GLASS SHEET
4. ALIGN FLANGE PROPERLY AND FOLLOW GASKET MANUFACTURER BOLT TIGHTENING SEQUENCE INSTRUCTIONS
5. DO NOT PAINT OUTER SURFACE OF FLANGE WITH METALLIC PIGMENTED OR CONDUCTIVE PAINTS
6. TEST MATED FLANGES WITH GAS ELECTRONICS MODEL 601 INSULATION CHECKER (OR EQUIVALENT) PRIOR TO ACCEPTANCE

ABOVE GRADE INSULATING FLANGE

NOT TO SCALE

4 / VAR

OTAY VILLAGE 8 WEST
MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS

CP-3

UTILITY NOTE	CITY "AS-BUILT"	O.W.D. "AS-BUILT"	OTAY WATER DISTRICT
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REGISTERED PROFESSIONAL ENGINEER — RICHARD F. YEAGER JR. — No. 70686 — CIVIL — STATE OF CALIFORNIA

R F Yeager ENGINEERING
CORROSION ENGINEERING CONSULTANTS
1016 BROADWAY, SUITE A PHONE: 619.312.0195
EL CAJON, CA 92021 FAX: 619.312.0197

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd
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BENCH MARK

DESCRIPTION : BRASS DISK MKD. "SD CITY ENGR." IN 3/4" IRON PIPE 0.5 MI S'LY OF INTX LA MEDIA RD & BIRCH RD SC. SIDE OF GRAVEL RD 225'+/- W OF GATE TO A.V.R.T.RACKING STA 15'+/- E OF METAL GATE.(PT # 1344 PER R.O.S. 14841) ELEVATION = 520.425 (NAVD '88)

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RFYJ	GPM	RJG

Plans Prepared Under Supervision Of
RICHARD F. YEAGER JR. Date 01.06.22 R.C.E. No. 70686

Submitted By ____ Planning | Land Arch

Approved By ____ Principal Civil Engineer

CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT

IMPROVEMENT PLANS FOR: MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS

CATHODIC PROTECTION PLAN AND DETAILS

Drawing No. 20041-27

W.O. No. OR6571

O.W.D. NO. D1044-090422
DEV-19-013

GENERAL NOTES

THE FOLLOWING GENERAL NOTES ARE PROVIDED TO GIVE DIRECTIONS TO THE CONTRACTOR BY THE LANDSCAPE ARCHITECT OF WORK, A CITY OF CHULA VISTA SIGNATURE ON THESE PLANS DOES NOT CONSTITUTE APPROVAL OF ANY OF THESE NOTES AND THE CITY WILL NOT BE RESPONSIBLE FOR THEIR ENFORCEMENT.

1. NOTES ARE DIRECTED TO THE WORK OF THE LANDSCAPE CONTRACTOR UNLESS NOTED ON PLANS.
2. WORK NOT INTENDED TO BE UNDER LANDSCAPE CONTRACTOR'S CONTRACT:
   A. N.I.C. - NOT IN CONTRACT
   B. BY OTHERS
   C. EXISTING
3. CONTRACTOR SHALL VERIFY WITH LANDSCAPE ARCHITECT THAT PLANS ARE CURRENT AND APPROVED.
4. WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF CHULA VISTA LANDSCAPE MANUAL (MOST RECENT EDITION) AND THE SAN DIEGO COUNTY HANDBOOK FOR PUBLIC WORKS CONSTRUCTION.
5. THESE PLANS HAVE BEEN CHECKED ONLY FOR COMPLIANCE WITH THE REQUIREMENTS OF THE GRADING ORDINANCE.
6. THESE PLANS ARE BASED ON GRADING PLANS BY HALE ENGINEERING CITY OF CHULA VISTA W.O. #OR-3001G & W.O. #OR3001I.
7. THE OWNER SHALL PROVIDE A COPY OF THE ENGINEERING SOILS TO THE CONTRACTOR WHO SHALL BECOME FAMILIAR WITH THE REPORTS RECOMMENDATIONS PRIOR TO BEGINNING ANY WORK. THE CONTRACTOR SHALL COMPLY WITH THE REPORTS RECOMMENDATIONS AS THEY RELATE TO HIS WORK.
8. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY AND/OR REQUIRED PERMITS AND PAY ALL RELATED FEES AND/OR TAXES REQUIRED TO INSTALL THE WORK ON THESE PLANS.
9. THE CONTRACTOR SHALL BE APPROPRIATELY LICENSED AS REQUIRED BY THE STATE IN WHICH THE WORK TAKES PLACE.
10. THE CONTRACTOR SHALL SUBMIT A SCHEDULE OF WORK, TO BE APPROVED BY OWNER AND LANDSCAPE ARCHITECT, PRIOR TO BEGINNING THE PROJECT. ALL WORK SHALL BE IN ACCORDANCE WITH SAID SCHEDULE.
11. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT PRIOR TO BEGINNING THE WORK AND SHALL BE RESPONSIBLE FOR COORDINATING WITH THE OWNER, LANDSCAPE ARCHITECT, GOVERNING AGENCIES, AND OTHER TRADES.
12. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT OF ANY ERRORS, OMISSIONS, OR DISCREPANCIES IN EXISTING CONDITIONS OR WITHIN THE PLANS PRIOR TO BEGINNING THE WORK. IMMEDIATE NOTIFICATION WILL BE GIVEN TO THE LANDSCAPE ARCHITECT SHOULD SUCH A CONDITION BE DISCOVERED.
13. ALL MATERIAL SHALL BE NEW UNLESS OTHERWISE SPECIFIED.
14. THE CONTRACTOR SHALL, IMMEDIATELY UPON BEING AWARDED THE CONTRACT, MAKE ANY ARRANGEMENTS NECESSARY TO INSURE THAT ALL MATERIALS, CONNECTIONS, AND SUPPLIES WILL BE AVAILABLE WHEN NEEDED FOR THIS PROJECT.
15. ADDITIONS AND/OR DELETIONS OF MATERIAL AND/OR LABOR SHALL BE MADE AT UNIT PRICES ESTABLISHED WITH THE OWNER PRIOR TO BEGINNING THE WORK.
16. NO ALTERATIONS WILL BE CONSIDERED FOR ITEMS SPECIFICALLY CALLED FOR ON THESE PLANS.
17. DETERMINATION OF "EQUAL" SUBSTITUTIONS SHALL BE MADE ONLY BY THE LANDSCAPE ARCHITECT AND/OR OWNER.
18. LANDSCAPE ARCHITECT SHALL BE NOTIFIED NO LESS THAN 48 HOURS IN ADVANCE OF ANY SITE OBSERVATIONS OR MEETINGS.
19. SITE OBSERVATIONS AND MEETINGS SHALL INCLUDE:

    A. PRE-CONSTRUCTION
    B. LANDSCAPE CONSTRUCTION
    C. PRE-MAINTENANCE
    D. POST-MAINTENANCE (FINAL)

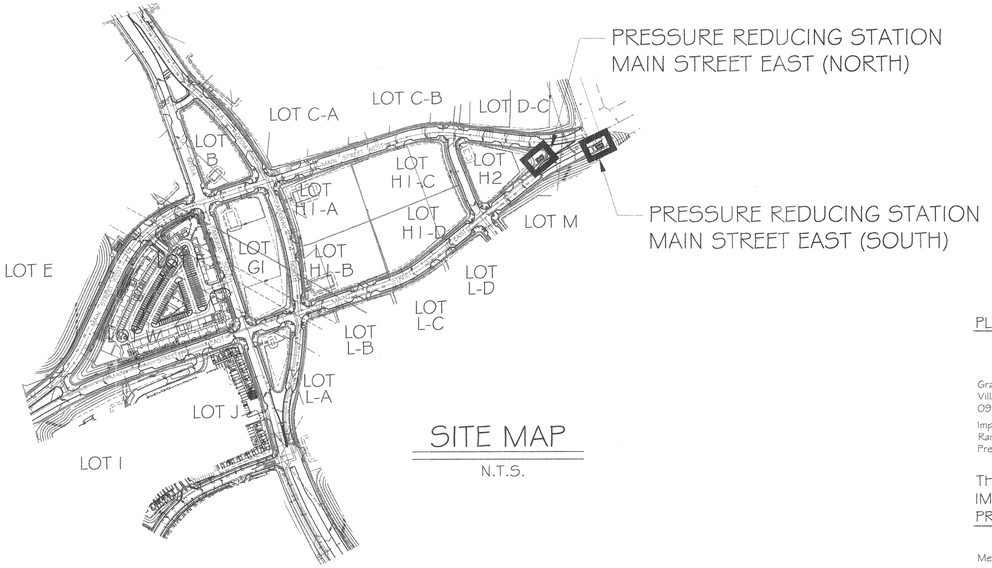
    NOTE: "LANDSCAPE" SHALL REFER TO ALL IMPROVEMENTS WITHIN THIS SET OF DOCUMENTS THAT HAVE BEEN DESIGNED BY THIS OFFICE.

    NOTE: THE CITY OF CHULA VISTA INSPECTOR WILL ISSUE A LIST OF CITY OBSERVATIONS AT THE PRE-CONTRACT MEETING.
20. SITE OBSERVATIONS BY THE LANDSCAPE ARCHITECT DURING ANY PHASE OF THIS PROJECT DOES NOT RELIEVE THE CONTRACTOR OF HIS PRIMARY RESPONSIBILITY TO PERFORM ALL WORK IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS, AND GOVERNING CODES.
21. CONTRACTOR SHALL BE BACK CHARGED FOR LANDSCAPE ARCHITECTS TIME WHEN OBSERVATIONS ARE CALLED FOR AND IT IS FOUND THAT THE WORK IS NOT SIGNIFICANTLY READY UPON OBSERVATION OR APPOINTMENT IS NOT KEPT. TIME WILL BE CHARGED ON AN HOURLY BASIS, PLUS TRANSPORTATION, FOOD, AND LODGING COSTS, IF ANY, AT THE THEN EXISTING HOURLY RATE FOR PERSONNEL PROVIDING THE OBSERVATIONS.
22. THIS FIRM DOES NOT PRACTICE OR CONSULT IN THE FIELD OF SAFETY ENGINEERING. THIS FIRM DOES NOT DIRECT THE CONTRACTOR'S OPERATIONS, AND IS NOT RESPONSIBLE FOR THE SAFETY OF PERSONNEL OTHER THAN OUR OWN ON THE SITE. THE SAFETY OF OTHERS IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHOULD NOTIFY THE OWNER IF HE CONSIDERS ANY OF THE RECOMMENDED ACTIONS PRESENTED HEREIN TO BE UNSAFE.
23. IMPROVEMENTS SHOWN ON THESE PLANS SHALL BE ULTIMATELY MAINTAINED BY A HOMEOWNERS ASSOCIATION. THE DEVELOPER/CONTRACTOR SHALL PROVIDE FULL MAINTENANCE OF ALL WALLS FOR A MINIMUM OF 90 DAYS AFTER INITIAL WRITTEN CLIENT APPROVAL.
24. THIS PROJECT WILL COMPLY WITH 2016 CALIFORNIA BUILDING CODE (BASED ON 2015 IBC), 2016 CALIFORNIA RESIDENTIAL CODE, 2016 CALIFORNIA MECHANICAL CODE (BASED ON 2015 UMC), 2016 CALIFORNIA PLUMBING CODE (BASED ON 2015 UPC), 2016 CALIFORNIA ELECTRICAL CODE (BASED ON 2014 NEC), 2016 CALIFORNIA FIRE CODE (BASED ON 2015 IFC), 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE, AND 2016 CALIFORNIA ENERGY CODE, AS ADOPTED AND AMENDED BY THE STATE OF CALIFORNIA AND THE CITY OF CHULA VISTA.
25. THE PROJECT CONTRACTOR SHALL COMPLETE AND SUBMIT THE FOLLOWING FORMS TO THE CITY OF CHULA VISTA INSPECTION STAFF: THESE FORMS ARE AVAILABLE ON THE CITY OF CHULA VISTA WEB SITE.
   a) SPECIAL INSPECTION / INSPECTION AGENCY / TESTING LABORATORY FINAL REPORT (FORM 4543)
   b) SPECIAL INSPECTOR START WORK NOTIFICATION (FORM 454)
   c) CERTIFICATE OF COMPLIANCE FOR OFF-SITE FABRICATION (FORM 4542)
   d) PROPERTY OWNER'S FINAL REPORT (FORM 4544)

Landscape Construction Plans for:

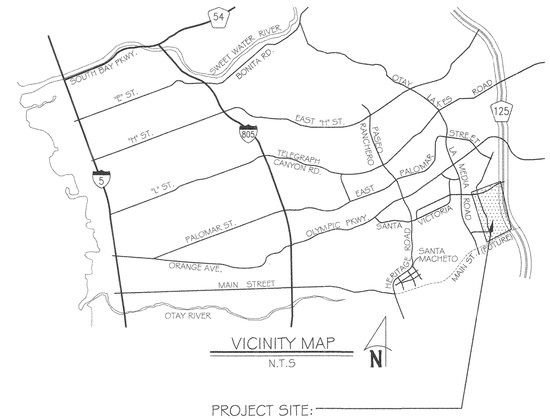
OTAY RANCH - VILLAGE 8 WEST MAIN STREET EAST 980/711 ZONE AND 815/680 ZONE PRESSURE REDUCING STATIONS

A Development of HomeFed Corporation



SITE MAP

N.T.S.



PROJECT SITE:
OTAY RANCH VILLAGE 8 (MAIN STREET EAST)
PRESSURE REDUCING STATION

SHEET INDEX

PLAN REFERENCES

Plans:	Consultant:	Reference No.	Date Approved
Grading Plans For Otay Ranch Village 8 Chula Vista Tract No. 09-04	Hale Engineering	City of Chula Vista W.O. #OR-3001G & W.O. #OR3001I	
Improvement Plans for Otay Ranch - Village 8 Main Street East Pressure Reducing Station	Dexter Wilson Engineering, Inc.	O.W.D. Project # D0954-090302	5/3018

THE FOLLOWING PLANS ARE INCLUDED AS A PART OF THE APPROVED IMPROVEMENT PLANS FOR OTAY RANCH - VILLAGE 8 MAIN STREET EAST PRESSURE REDUCING STATION:

Plans:	Consultant:
Mechanical Plans	Dexter Wilson Engineering, Inc.
Electrical Plans	Moraes / Pham & Associates
Cathodic Protection Plans	RF Yeager Engineering

Declaration of Responsible Charge

I hereby declare that I am the Landscape Architect of work for this project, that I have exercised responsible charge over the design of the 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 Chula Vista, the Otay Water District, and the County of San Diego Department of Environmental Health is confined to a review only and does not relieve me, as Landscape Architect of work, of my responsibilities for project design.

I am familiar with and agree to comply with the requirements for landscape improvement plans as described in Chapter 20.12 of the Municipal Code. I have prepared this plan in compliance with those regulations. I certify that the plan implements the regulations to provide efficient landscape water use.

Tom Picard
Tributary LA, Inc.
2725 Jefferson Street, Suite 14
Carlsbad, CA 92008

R.L.A. NO. 4001 EXP. DATE: 9-30-23
SIGNATURE

1-05-22
DATE

SCOPE OF WORK:
MASONRY WALL, TUBULAR STEEL GATES AND OVERHEAD STRUCTURE FOR PRESSURE REDUCING STATION.

BUILDING CODE DATA LEGEND
OCCUPANCY GROUP: S-2
TYPE OF CONSTRUCTION: V-B
HEIGHT OF BUILDING: 9'-10"
OF STORIES: 1

OWNER
HOMEFED CORPORATION
1903 WRIGHT PLACE, SUITE 220
CARLSBAD, CALIFORNIA 92008
760.798.1765
CONTACT: BRIAN CANARIS

CIVIL ENGINEER
HALE ENGINEERING
7910 CONVOY COURT
SAN DIEGO, CA 92111
858.715.1420
CONTACT: JILL GRAVELY

LANDSCAPE ARCHITECT
TRIBUTARY LA, INC.
2725 JEFFERSON ST. SUITE 14
CARLSBAD, CA 92008
760.434.9300
CONTACT: TOM PICARD

GOVERNING WATER DISTRICT
OTAY WATER DISTRICT
2554 SWEETWATER SPRINGS BLVD.
SPRING VALLEY, CA 91978
619.670.2241

STRUCTURAL ENGINEER
ORIE² ENGINEERING
9759 MIRAMAR RD. SUITE 310
SAN DIEGO, CA 92126
858.335.7643
CONTACT: DONALD ORIE

GEOTECHNICAL CONSULTANT
ADVANCED GEOTECHNICAL SOLUTIONS, INC.
485 CORPORATE DRIVE, SUITE B
ESCONDIDO, CA 92029
619.867.0487
CONTACT: JEFFREY CHANEY

UTILITY NOTE	CITY "AS-BUILT"	O.W.D. "AS-BUILT"	OTAY WATER DISTRICT
ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	(SIGNATURE) DATE (PRINTED NAME) R.L.A. NO.: MY REGISTRATION EXPIRES: DISCIPLINE	(SIGNATURE) DATE (PRINTED NAME) R.L.A. NO.: MY REGISTRATION EXPIRES: DISCIPLINE	PROJECT#:D1044-090422 PERMIT#: DEV-19-013 P.Z.: W711, W624 John Thayer Digitally signed by John Thayer Date: 2021.12.27 17:20:42-08'00' REVIEWED BY: DATE:

REGISTERED LANDSCAPE ARCHITECT — THOMAS A. PICARD — CALIFORNIA — 9/30/23 — 1/5/22

IT'S THE LAW! DIAL BEFORE YOU DIG! CALL AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING 1-800-227-2600 UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

BEFORE EXCAVATING, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING UTILITY UNDERGROUND SERVICE ALERT AT 1-800-227-2600

Proj. 19010 — L-1

Tributary LA, Inc.
Landscape Architecture and Planning
2725 Jefferson Street, Suite 14
Carlsbad, CA 92008
760.434.9300 office 760.434.9303 fax

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd
Contractor					
Inspector					
Date Completed					

BENCH MARK
CITY OF CHULA VISTA BENCH MARK NO.5072
ELEVATION: 446.361 NAVD 88
DESCRIPTION: 3" BRASS (LS4324) WELL MON @ ℄ INT. RUTGERS & OTAY LAKES. PT. NO.5072 PER ROS 14841

SCALE
Horizontal N/A
Vertical N/A

Designed By	Drawn By	Checked By
TAP	CPC	TAP

Plans Prepared Under Supervision Of
THOMAS A. PICARD Date 1/5/22 R.L.A. No. 4001

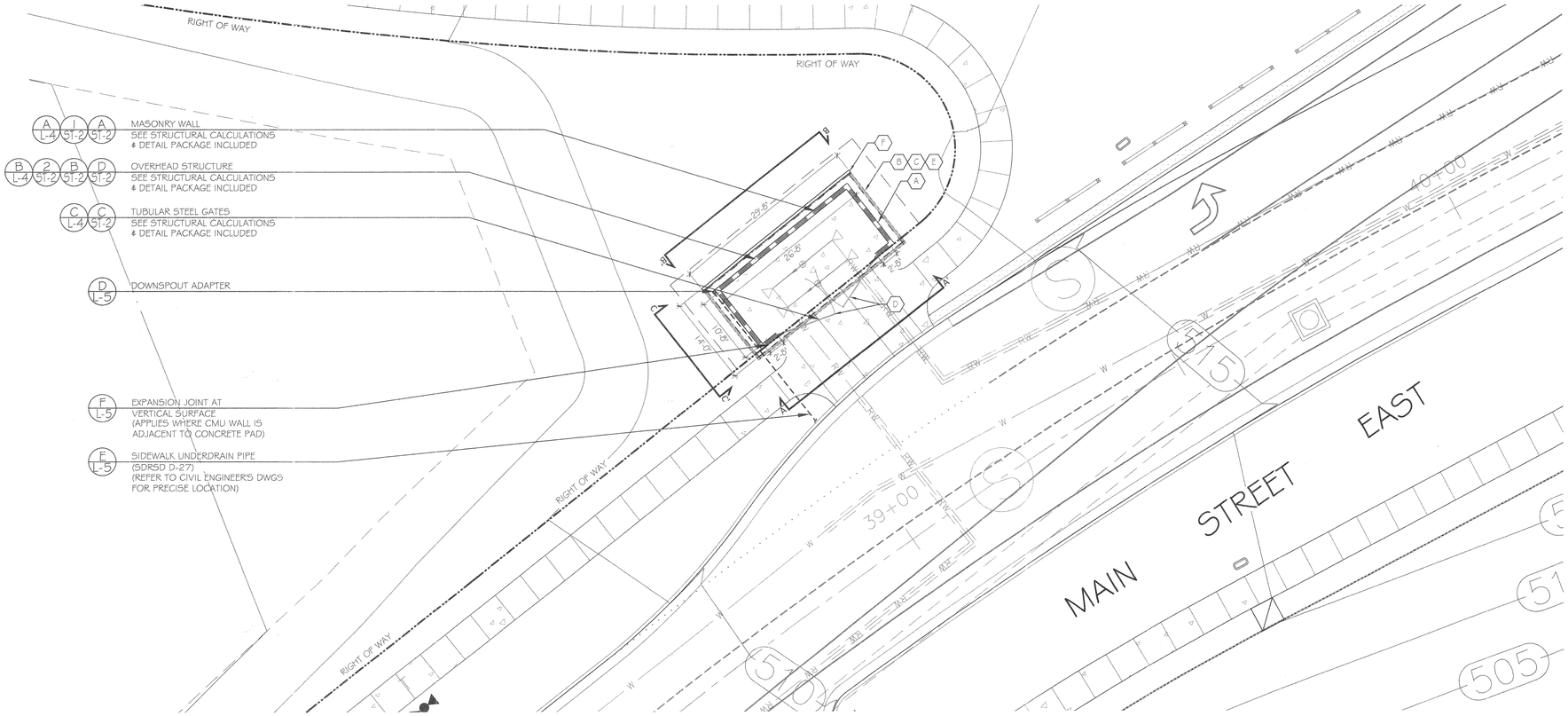
Submitted By
Planning Land Arch

Approved By
Principal Civil Engineer

CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT
IMPROVEMENT PLANS FOR: MAIN STREET EAST 980/711 & 815/680 PRESSURE REDUCING STATION
TITLE SHEET
Drawing No. 20041 - 28
W.O. No. OR6571

O.W.D. D1044-090422
DEV-19-013

OTAY RANCH VILLAGE 8 WEST - MAIN STREET EAST
980/711 & 815/680 PRESSURE REDUCING STATION



UTILITY LEGEND (PER CIVIL PLANS)

- DOMESTIC WATERLINE (PER CIVIL PLANS) — W
- DOMESTIC SEWERLINE (PER CIVIL PLANS) — S
- RECYCLED WATERLINE (PER CIVIL PLANS) — RW
- STORM DRAINS (PER CIVIL PLANS)
- BLOWOFF VALVE
- AIR RELEASE VALVE
- FIRE HYDRANT
- TRACER WIRE ACCESS POINT (PER CIVIL PLANS) — T
- CATHODIC TEST STATION (PER CIVIL PLANS) — C
- STREET LIGHT

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3. FOR CONSTRUCTION DETAILS, SEE SHEET: L-4.
4. FOR CONSTRUCTION SPECIFICATIONS, SEE SHEET: L-5.
5. FOR STRUCTURAL DETAILS, SEE SHEETS ST-1 - ST-2.

FINISH SCHEDULE

SEE MASTER FINISH SCHEDULE, SHEET L-4 FOR DETAILS AND APPLICABLE FINISH

SYMBOL	DESCRIPTION	DETAIL
A	FREESTANDING PERIMETER WALL	A / L-4
B	OVERHEAD STRUCTURE ROOF	B / L-4
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Proj. 19010 — L-2

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CITY "AS-BUILT"

(SIGNATURE) DATE
(PRINTED NAME) R.L.A. NO.:
MY REGISTRATION EXPIRES: DISCIPLINE

O.W.D. "AS-BUILT"

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OTAY WATER DISTRICT

PROJECT#: D1044-090422
PERMIT#: DEV-19-013 P.Z.: W711, W624
John Thayer — Digitally signed by John Thayer Date: 2021.12.27 17:20:59-08'00'
REVIEWED BY: DATE:

REGISTERED LANDSCAPE ARCHITECT — THOMAS A. PICARD — CALIFORNIA — 9/30/23 — 1/5/22

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd
Contractor					
Inspector					
Date Completed					

BENCH MARK
CITY OF CHULA VISTA BENCH MARK NO.5072
ELEVATION: 446.361 NAVD 88
DESCRIPTION: 3" BRASS (LS4324) WELL MON @ ℄ INT. RUTGERS & OTAY LAKES. PT. NO.5072 PER ROS 14841

SCALE	Designed By	Drawn By	Checked By
Horizontal N/A	TAP	CPC	TAP
Vertical N/A	Plans Prepared Under Supervision Of: THOMAS A. PICARD	Date 1/5/22	R.L.A. No. 4001

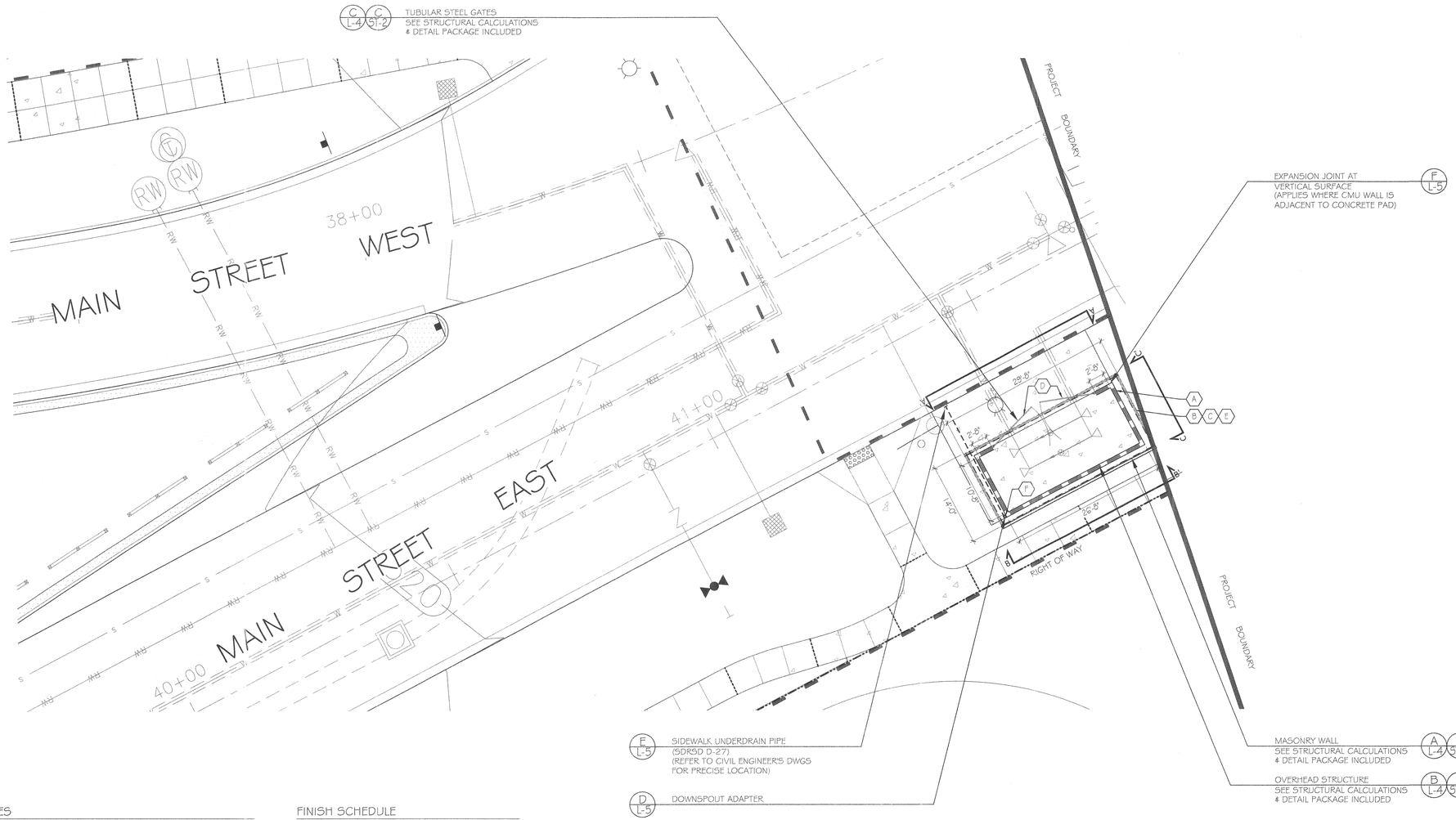
Submitted By — Planning | Land Arch
Approved By — Principal Civil Engineer

CITY OF CHULA VISTA — DEVELOPMENT SERVICES DEPARTMENT
IMPROVEMENT PLANS FOR: MAIN STREET EAST 980/711 & 815/680 PRESSURE REDUCING STATION
CONSTRUCTION PLAN - PRS 815/680

Drawing No. 20041 - 29
W.O. No. OR6571

O.W.D. D1044-090422
DEV-19-013

OTAY RANCH VILLAGE 8 WEST - MAIN STREET EAST
980/711 & 815/680 PRESSURE REDUCING STATION



OTAY RANCH VILLAGE 8 WEST - MAIN STREET EAST
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OTAY WATER DISTRICT

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SCALE
Horizontal N/A
Vertical N/A

Designed By	Drawn By	Checked By
TAP	CPC	TAP

Plans Prepared Under Supervision Of
THOMAS A. PICARD Date 9/30/22 R.L.A. No. 4001

Submitted By
Planning Land Arch

Approved By
Principal Civil Engineer

CITY OF CHULA VISTA — DEVELOPMENT SERVICES DEPARTMENT
IMPROVEMENT PLANS FOR: MAIN STREET EAST 980/711 & 815/680 PRESSURE REDUCING STATION
CONSTRUCTION PLAN - PRS 980/711

Drawing No. 20041 - 30
W.O. No. OR6571

Proj. 19010
L-3

Tributary LA, Inc.
Landscape Architecture and Planning
2725 Jefferson Street, Suite 14
Carlsbad, CA 92008
760.434.9300 office 760.434.9303 fax

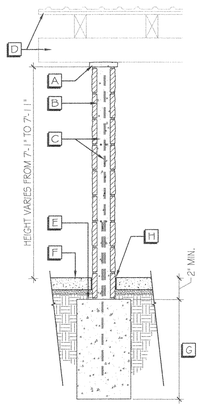
O.W.D. D1044-090422
DEV-19-013

FINISH SCHEDULE

SYMBOL	DESCRIPTION	FINISH & TEXTURE	DETAIL	COMMENTS
A	FREESTANDING PERIMETER WALL	6" X 6" X 16" SLUMPED BLOCK, WITH 6" X 2" X 16" SLUMPED CAP. COLOR TO BE RCP BLOCK "SAND" OR "LIGHT BROWN" (TBD). GROUT TO BE SPEC MIX SM290 "NANTUCKET" OR APPROVED EQUAL.	A / L-4 1, A, C & D / ST-2	
B	OVERHEAD STRUCTURE ROOF	SHEET METAL ROOF (COLOR: SHERWIN WILLIAMS SW6153 PROTEGE BRONZE), REFER TO 'METAL & TUBULAR STEEL NOTES' BELOW FOR APPLICATION	B / L-4 2 / ST-2	
C	OVERHEAD STRUCTURE BEAM & LATTICE	TUBULAR STEEL (COLOR: SHERWIN WILLIAMS SW6153 PROTEGE BRONZE), REFER TO 'METAL & TUBULAR STEEL NOTES' BELOW FOR APPLICATION	B / L-4 B / ST-2	
D	TUBULAR STEEL GATES	TUBULAR STEEL (COLOR: SHERWIN WILLIAMS SW6153 PROTEGE BRONZE), REFER TO 'METAL & TUBULAR STEEL NOTES' BELOW FOR APPLICATION	C / L-4 C / ST-2	
E	PEAK, EAVE, & RAKE METAL		C / L-4 C / ST-2	
F	GUTTER	K-STYLE GUTTER - .027 x 11 3/4" GUTTER COIL .027 X 11 3/4" GUTTER COIL, 5K .027" ALUMINUM GUTTER. AVAILABLE THROUGH SERVICE PARTNERS GUTTER SUPPLY, LLC. (COLOR: 'MUSKET BROWN' RAIN GUTTER SUPPLY - ALUMINUM GUTTER MATERIAL COLORS), REFER TO 'METAL & TUBULAR STEEL NOTES' BELOW FOR APPLICATION	B / L-4 B / ST-2	
G	DOWNSPOUT	.019 x 10 3/4" ALUMINUM DOWNSPOUT COIL, 2" X 3" ALUMINUM DOWNSPOUT. AVAILABLE THROUGH SERVICE PARTNERS GUTTER SUPPLY, LLC. (COLOR: 'MUSKET BROWN' RAIN GUTTER SUPPLY - ALUMINUM GUTTER MATERIAL COLORS), REFER TO 'METAL & TUBULAR STEEL NOTES' BELOW FOR APPLICATION	D / L-5 B / ST-2	

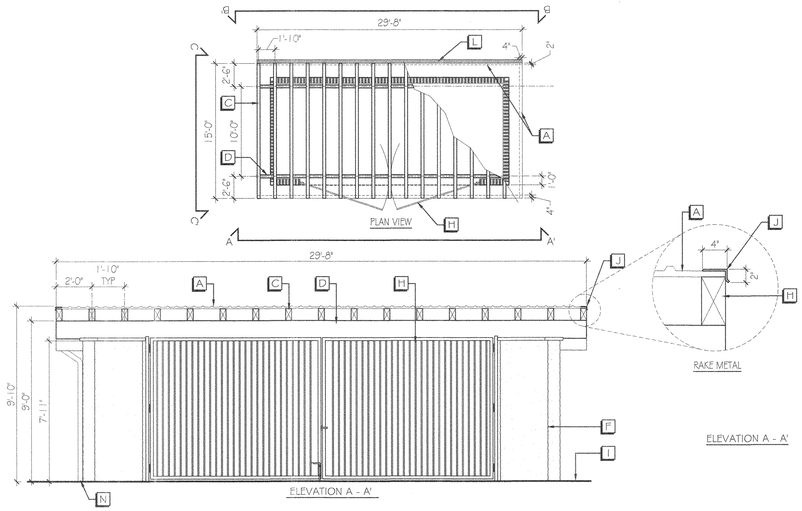
METAL & TUBULAR STEEL NOTES:

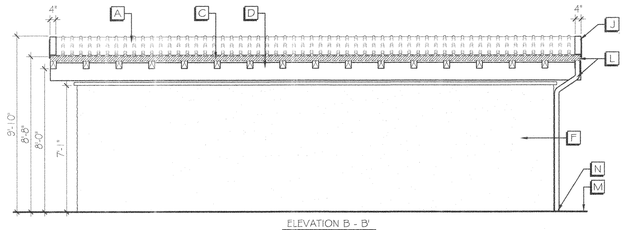
1. All welds shall be continuous and free from irregularities. All exposed cuts and welds shall be ground smooth.
2. Tubular steel gates, hardware, and accessories shall be hot-dipped glavanized after fabrication in compliance with ASTM specifications as applicable.
3. All galvanized slag shall be removed from metal surface prior to application of primer. All metal surfaces shall be cleaned with Anchem Metalprep 79 or equal, by full emersion, followed by immersion in Anchem Galvaprep 5G-3 coating chemical or equal, in strict accordance with the factory procedures and instructions.
4. Primers shall be 'Ameristone' #54 (Red) and 'Ameristone' #56W101 (White). Apply one coat of each to metal as specified by the paint manufacturer. Primer shall be applied to clean and degrease unpainted metal bare metal surfaces. All welds shall be clean and free of slag.
5. All exposed metal surfaces shall receive two coats of primer, as previously specified, and two coats of inustrial oil based paint (see finish schedule for color specifications).
6. Erect plum, straight, true, and accurately fix in place, brace, reinforce, and anchor in place post.
7. After installation, clean off all rust, scale, and oil. Clean field welds, bolts, and abraded areas. Touch up all areas with the same material as used for the shop coat leaving all surfaces ready to receive finish coats.

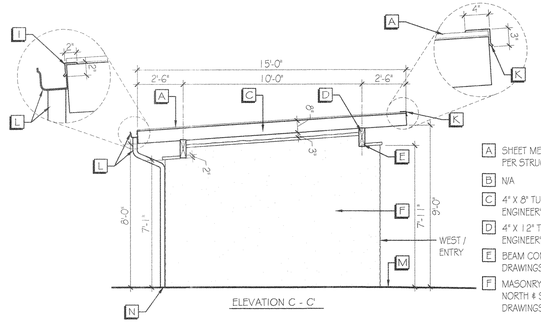


A MASONRY WALL

- A 8" x 2" x 16" SLUMPED CAP, COLOR TO BE RCP "MISSION" OR APPROVED EQUAL - SEE FINISH SCHEDULE
- B 8" x 8" x 16" SLUMPED BLOCK WALL. TOP OF WALL TO BE RAKED ON NORTH & SOUTH SIDES - SEE STRUCTURAL CALCULATIONS & DETAIL PACKAGE INCLUDED (FOR CONSTRUCTION SEE CITY OF CHULA VISTA'S FORM 4604 FOR EXACT DETAILS) - COLOR TO BE RCP "MISSION" OR APPROVED EQUAL W/ DAVIS COLORS 'MC66' MORTAR - SEE FINISH SCHEDULE
- C REINFORCING STEEL - SEE STRUCTURAL CALCULATIONS & DETAIL PACKAGE INCLUDED (FOR CONSTRUCTION SEE CITY OF CHULA VISTA'S FORM 4604 FOR EXACT DETAILS)
- D OVERHEAD STRUCTURE - CONNECTION PER STRUCTURAL DETAIL
- E TOP OF CONCRETE FOOTING - SEE STRUCTURAL CALCULATIONS & DETAIL PACKAGE INCLUDED (FOR CONSTRUCTION SEE CITY OF CHULA VISTA'S FORM 4604 FOR EXACT REQUIREMENTS)
- F FINISH GRADE
- G CONCRETE FOOTING DEPTH - SEE STRUCTURAL CALCULATIONS & DETAIL PACKAGE INCLUDED (FOR CONSTRUCTION SEE CITY OF CHULA VISTA'S FORM 4604 FOR EXACT REQUIREMENTS)
- H EXPANSION JOINT AT VERTICAL SURFACE (REFER TO DETAIL F, SHEET L-5)

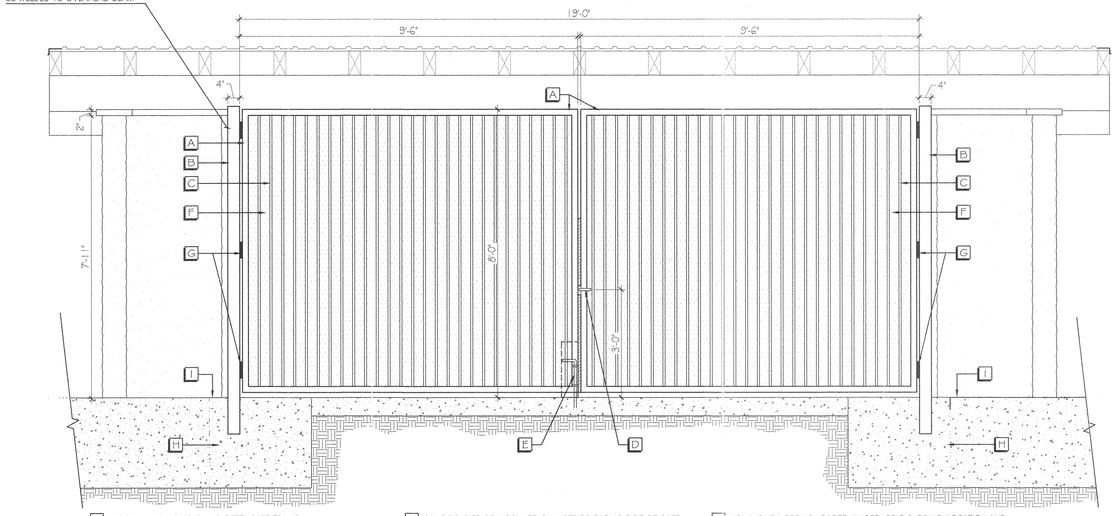






- A SHEET METAL ROOF, WELDED TO JOISTS (ATTACHMENT PER STRUCTURAL ENGINEER'S DRAWINGS)
- B N/A
- C 4" X 8" TUBULAR STEEL JOIST (PER STRUCTURAL ENGINEER'S DRAWINGS. DETAIL, SHEET ST-2)
- D 4" X 12" TUBULAR STEEL BEAM (PER STRUCTURAL ENGINEER'S DRAWINGS, SHEET ST-2)
- E BEAM CONNECTION (PER STRUCTURAL ENGINEER'S DRAWINGS, SHEET ST-2)
- F MASONRY WALL - TOP OF WALL TO BE RAKED ON NORTH & SOUTH SIDES (PER STRUCTURAL ENGINEER'S DRAWINGS, SHEET ST-2)
- G N/A
- H TUBULAR STEEL GATES (DETAIL C, THIS SHEET)
- I EAVE METAL - INSTALL UNDER SHEET METAL, FASTEN WITH SCREW AND WASHER (SEE FINISH SCHEDULE)
- J RAKE METAL - INSTALL ON TOP OF SHEET METAL, FASTEN WITH SCREW AND WASHER (SEE FINISH SCHEDULE)
- K PEAK METAL - INSTALL ON TOP OF SHEET METAL, FASTEN WITH SCREW AND WASHER (SEE FINISH SCHEDULE)
- L GUTTER & DOWN SPOUT (SEE FINISH SCHEDULE)
- M FINISH GRADE
- N DOWNSPOUT ADAPTER & SIDEWALK UNDERDRAIN PIPE (DETAIL D & E, SHEET L-5)

B OVERHEAD STRUCTURE



- A 1" X 2" X 1/4" THICK TUBULAR STEEL GATE FRAME
- B 4" X 1/4" SQ. TUBULAR STEEL POST
- C 5/8" SQ. X 1/4" TUBULAR STEEL PICKETS @ 4" O.C. SPACING. WELD ALL CONNECTIONS.
- D SLIDE BOLT W/ PADLOCK (LOCATION & TYPE BY CONTRACTOR & TO BE APPROVED BY OWNER PRIOR TO INSTALLATION)
- E CANE BOLT TO BE INSTALLED ON INTERIOR FACING SIDE OF GATE (LOCATION & TYPE BY CONTRACTOR & TO BE APPROVED BY OWNER PRIOR TO INSTALLATION) W/ A 4" W X 24" H X 1/4" THICK OVERLAPPING STEEL PLATE ON THE OUTSIDE OF THE GATE, TO ELIMINATE ACCESS TO THE INTERIOR CANE BOLT
- F 18 GAUGE SOLID SHEET METAL PANEL, TO BE WELDED TO THE INSIDE OF THE GATE FRAME
- G HEAVY DUTY, SPRING LOADED HINGES, SELF-CLOSING (LOCATION AND TYPE BY CONTRACTOR & TO BE APPROVED BY OWNER PRIOR TO INSTALLATION)
- H CONCRETE FOOTING (PER STRUCTURAL ENGINEERS DRAWINGS, SHEET ST-2)
- I FINISH SURFACE

C TUBULAR STEEL GATE

UTILITY NOTE

ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.

CITY "AS-BUILT"

(SIGNATURE) DATE

(PRINTED NAME) R.L.A. NO.:

MY REGISTRATION EXPIRES: DISCIPLINE

O.W.D. "AS-BUILT"

(SIGNATURE) DATE

(PRINTED NAME) R.L.A. NO.:

MY REGISTRATION EXPIRES: DISCIPLINE

OTAY WATER DISTRICT

PROJECT#: D1044-090422

PERMIT#: DEV-19-013 P.Z.: W711, W624

John Thayer Digitally signed by John Thayer Date: 2021.12.27 17:21:32-08'00'

REVIEWED BY: DATE:

REGISTERED LANDSCAPE ARCHITECT THOMAS A. PICARD 4001 CALIFORNIA

Exp. 9/30/23

IT'S THE LAW! DIAL BEFORE YOU DIG!

CALL AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING 1-800-227-2600 UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

BEFORE EXCAVATING, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING UTILITY UNDERGROUND SERVICE ALERT AT 1-800-227-2600

Proj. 19010 L-4

Tributary LA, Inc.
Landscape Architecture and Planning
2725 Jefferson Street, Suite 14
Carlsbad, CA 92008
760.434.9300 office 760.434.9303 fax

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd
Contractor					
Inspector					
Date Completed					

BENCH MARK

CITY OF CHULA VISTA BENCH MARK NO.5072
ELEVATION: 443.361 NAVD 88
DESCRIPTION: 3" BRASS (LS4324) WELL MON @ ℄ INT. RUTGERS & OTAY LAKES. PT. NO.5072 PER ROS 14841

SCALE: Horizontal N/A; Vertical N/A

Designed By	Drawn By	Checked By
TAP	CPC	TAP

This Prepared Under Supervision Of: THOMAS A. PICARD Date 1/5/22 R.L.A. No. 4001

Submitted By Planning Land Arch

Approved By Principal Civil Engineer

CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT

IMPROVEMENT PLANS FOR: MAIN STREET EAST 980/711 & 815/680 PRESSURE REDUCING STATION

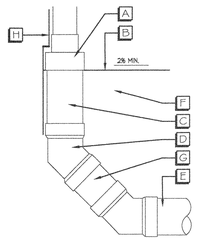
CONSTRUCTION DETAILS

Drawing No. 20041 - 32

W.O. No. OR657I

O.W.D. D1044-090422
DEV-19-013

OTAY RANCH VILLAGE 8 WEST - MAIN STREET EAST
980/711 & 815/680 PRESSURE REDUCING STATION



A NDS, PVC DOWN SPOUT ADAPTER, SIZE AS REQUIRED TO FIT DOWNSPOUT (BOTTOM OF DOWNSPOUT ADAPTER SHALL BE AT THE STRUCTURE SCREED LINE WHERE THE DRAIN GOES THROUGH HARDSCAPE)

B FINISH GRADE - MINIMUM 2% SLOPE TO DRAIN INLET (REFER TO STREET IMPROVEMENT PLANS)

C 3" DIA. PVC RISER - LENGTH AS REQUIRED

D 45 DEG. ELBOW

E 3" RIGID POLY DRAINPIPE MINIMUM 1% FALL TO TERMINATE AT CURB FACE PER DETAIL E, THIS SHEET.

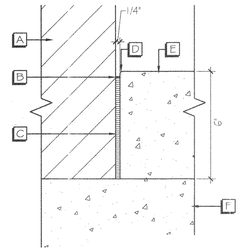
F COMPACTED SUBGRADE PER SOILS REPORT

G 3" RIGID POLY PIPE

H FACE OF BUILDING

NOTE:
DOWNSPOUT TO PIPE CONNECTION MUST BE AS TIGHT TO THE BUILDING AS POSSIBLE.

(D) DOWN SPOUT ADAPTER



A PRS BLOCK WALL

B POLYURETHANE SEALANT (SEE SPECIFICATIONS)

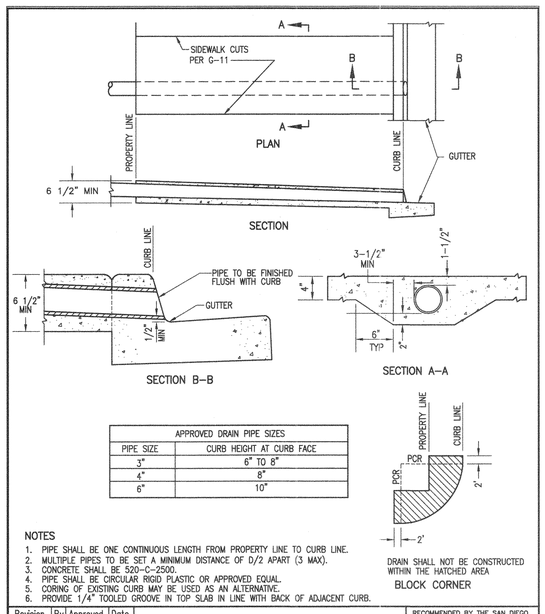
C EXPANSION JOINT (USE "KOLD SEAL ZIPPER STRIP" OR EQUAL)

D 1/8" RADIUS TYPICAL

E CONCRETE (SEE PLAN AND FINISH SCHEDULE FOR COLOR AND FINISH) (DEPTH AND REINFORCEMENT PER SOILS REPORT RECOMMENDATIONS)

F CONCRETE FOOTING (REFER TO DETAIL 1, SHEET ST-2)

(F) EXPANSION JOINT AT VERTICAL SURFACE



APPROVED DRAIN PIPE SIZES	
PIPE SIZE	CURB HEIGHT AT CURB FACE
3"	6" TO 8"
4"	8"
6"	10"

NOTES
1. PIPE SHALL BE ONE CONTINUOUS LENGTH FROM PROPERTY LINE TO CURB LINE.
2. MULTIPLE PIPES TO BE SET A MINIMUM DISTANCE OF D/2 APART (3 MAX).
3. CONCRETE SHALL BE 520-C-2500.
4. PIPE SHALL BE CIRCULAR RIGID PLASTIC OR APPROVED EQUAL.
5. CORING OF EXISTING CURB MAY BE USED AS AN ALTERNATIVE.
6. PROVIDE 1/4" TOOLED GROOVE IN TOP SLAB IN LINE WITH BACK OF ADJACENT CURB.

DRAIN SHALL NOT BE CONSTRUCTED WITHIN THE HATCHED AREA

Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Reformatted		T.Stanton	04/06
Edited	S.S.	T. Regello	03/11
Edited	T.R.	T. Regello	10/15
Edited	M.W.	M. Widelski	10/18

SAN DIEGO REGIONAL STANDARD DRAWING

SIDEWALK UNDERDRAIN PIPE

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

Chairperson R.C.E. 19246 Date 10/25/2018

DRAWING NUMBER D-27

(E)

Landscape Construction Specifications

I. General Conditions

A. Definitions:

1. Governing Water District:	Otay Water District
2. Project Owner:	HomeFed Corporation
3. Civil Engineer:	Hunsaker & Associates
4. Soils Engineer:	Geocon, Inc.
5. Structural Engineer:	Orie2 Engineering
6. Landscape Architect:	Tributary LA, Inc.

B. Scope of Services:
1. The contractor shall provide all necessary materials, labor, equipment, permits, supervision and all other services necessary to complete all construction work, as specified within these landscape construction documents. All work shall be performed and completed to the satisfaction of the owner or authorized representative.
2. Field revisions shall not be executed without prior written approval from the owner or authorized representative. The contractor shall assume the risk of not being compensated, when work is performed without an approved change order.
3. The landscape architect shall have the authority to make minor revisions in the field. Revisions shall be documented on a "punch-list" and circulated to the owner, landscape architect and landscape contractor. The owner, prior to proceeding shall approve all such revisions involving additional cost or significant modifications to the projects appearance.
4. Provisions of the 'General Conditions of the Contract for Construction', A.I.A. Document A201, latest edition, shall apply to the work as if part of this contract. Copies are available at the A.I.A. office, 233 'A' Street, San Diego, California 92101.

C. Code Compliance
1. Local, municipal and state codes, laws, rules and regulations governing or relating to any part of this project are hereby made part of these landscape construction documents.
2. All work shall be performed in compliance with the Uniform Building Code. Uniform Plumbing Code, Uniform Fire Code, American Disabilities Act and all other applicable building documents. It is the contractor's responsibility to notify the owner of any design element that may be in conflict with any applicable codes, laws, rules and regulations, prior to construction.

D. Landscape Contractor's Responsibilities
1. These plans are prepared for the convenience of the contractor. The contractor shall verify all site conditions and dimensions shown on the plans affecting the intended design of the construction work. Any discrepancies shall be reported to the owner immediately.
2. The contractor shall carry all necessary compensation, liability and property damage insurance to cover their employees and installation so as to offer full protection to the owner from any possible damage suit or lien on the owner's property.
3. The contractor shall be coordinate the installations of the construction items with all other trades, to avoid potential conflicts with the street improvements, utilities, grading, drainage, irrigation and plant material.
4. The contractor shall be liable for damage to all existing and/or recently installed utilities, construction features, irrigation and plant material and shall repair or replace all items damaged improvements, in a manner acceptable to the owner's representative.
5. Prior to construction, the contractor shall locate and stake all construction elements as specified within these plans. Prior to initiating any work, the owner's representative must approve staking.
6. All improvements shall be constructed, assembled and installed in an efficient manner to the highest workmanlike standards. Improvements shall be complete in every aspect and shall be left ready for their intended use and/or operations by the owner.
7. The contractor shall apply and pay for all necessary permits and fees, required by the local governing agencies.
8. The contractor shall be responsible for any encroachment onto adjacent properties, right-of-ways, easements, setbacks or any other legal property restriction.
9. The prime landscape contractor shall accept the responsibility for all of their subcontractors and perform all work, coordination and supervision, as required to complete the contract.
10. The contractor shall inform the owner, prior to the initiation of any work, the names of all subcontractors proposed (if any). The owner will retain the right to reject any subcontractor proposed by the prime landscape contractor.
11. There shall be no documentation in the general contract that creates any contractual relationship between he owner and subcontractor.
12. The Contractor shall submit the name and background experience of the proposed foreman/supervisor for this job.
13. The contractor shall provide appropriate supervision for all work performed. When absent from the job site, the job supervisor shall appoint an assistant capable of discussing minor matters with the landscape architect and/or owner.
14. The Contractor shall commence selection and verify the availability of all necessary construction materials upon award of contract.
15. The contractor shall arrange the acquisition of any necessary deposits to set aside materials (either by owner or by contractor), as soon as possible.
16. The Contractor agrees by submitting a bid, that this project will receive a high priority on his work schedule. The only delays considered acceptable are only those, which can be proven to be beyond the control of the Contractor.
17. The Contractor shall secure and pay for all required permits and fees to complete the work.
18. All materials shall be of standard, approved, and first grade quality, and shall be in prime condition upon acceptance.
19. Work shall be performed when weather conditions permit proper and satisfactory results.

E. Contractor's Insurance
1. The contractor shall carry the workman's compensation, general liability and property damage insurance. If an emergency threatens the safety of life, work or adjoining property, the contractor hereby instructed to act at their discretion to prevent such loss or injury and shall maintain the minimum liability insurance coverage during the contract period:
   a. Bodily injury: $250,000.00 per individual occurrence
   b. Property damage: $250,000.00 per individual occurrence
2. The contractor shall not cause their insurance policies to be cancelled or permit them to lapse. Each insurance policy shall include a clause to the effect that the policy shall not (at any time during the construction period), be cancelled or reduced or limited until fifteen days after all additional insurers have received written notice as evidenced by returned receipts of registered or cancelled letters.
3. By accepting this contract the contractor agrees to hold harmless the owner and landscape architect from any claims arising out of his operations or the operations of any of their subcontractors, material suppliers and agents.

F. Landscape Construction Documents
1. The owner shall furnish the contractor with all applicable drawings, details, specifications, revisions (As requested by the landscape architect) and change orders. Recommendations received directly from the landscape architect must be reviewed and approved by the owner's representative prior to its execution.
2. The contractor shall furnish their contract, all shop drawings specified as part of the contract and a work sheet, which notes all of the deviations from the original contract, not otherwise covered.
3. The contractor shall keep at the job site at all times a "Field Set" of drawings, shop drawings and the work sheet indicating updates and deviations as they occur.
4. All construction items shall be located as dimensioned on the plans, unless otherwise indicated in notes, details, legends and specifications.
5. Dimensions shall be taken from the vertical improvements unless otherwise noted on plans.
6. Working dimensions are not permitted to be scaled from plans, elevations, sections or details from these plans.
7. Where no construction detail are shown or noted for any part of the work, the construction shall be consistent with similar work, as shown within these plans.
8. The owner shall establish all lot lines and site restrictions. All other improvements, grades and control shall be established by the contractor and shall verify consistency with dimensions, lines, grades, improvements with those indicated on the drawings.

G. Site Conditions
1. Prior to the initiation of any work, the contractor shall locate all cables, conduits, sewers septic tanks and all other underground utilities that are commonly encountered and shall take the proper precaution not to damage or disturb such improvements. If a conflict exists between such obstacles and the proposed work, the contractor shall promptly notify the owner and landscape architect, who will coordinate the relocation of the specified feature. The contractor shall proceed in the same manner if natural barriers, such as a solid rock sub-base or any other condition prevent the specified features from being installed as specified.
2. Discrepancies between the site conditions and the landscape improvement plans and/or design intent, affecting the successful completion and cost of the project shall be reported to the owner's representative and landscape architect immediately. Any continuation of work prior to the resolution of any discrepancies is at the contractor's risk and expense.

H. Final Conditions & Guarantee
1. Upon completion of all work, the contractor shall request a final review with the owner and landscape architect, at which time the contractor must be present. All modifications and existing conditions shall be noted at time and the contractor shall specify when and how an unacceptable condition will be repaired or replaced. Upon completion of all documented exceptions and the contract area cleaned and cleared of all debris, the job shall be considered complete and the contract executed.
2. The contractor shall unconditionally guarantee that all work performed, materials and equipment furnished under the contract, against defects in materials and workmanship for a period of one year from the date of final acceptance by the Owner of the completed work, except where noted in these specifications.
3. Neither the completion of the job nor the final payment shall relieve the contractor of their responsibility for the guarantees as stated in the contract or of the responsibility for faulty materials or poor craftsmanship. The contractor shall quickly remedy any defect, which occurs during the guarantee period, as specified in the contract. The owner will forward a notice indicating all observed defects to the contractor, for the contractor's review and response. The contractor will return written documentation to the owner, indicating what action was taken to correct the defect.

II. Fencing

A. Metal Fencing:
1. General:
   a. All construction shall conform to the latest edition of the Uniform Building Code.
   b. All fencing, as shown within these plans and details are intended to meet the minimum requirements of the State and Local codes. Any condition that does not conform, shall be brought to the owner's representative's and landscape architect's attention prior to the initiation of any work.
   c. All metal work shall be free of defects, which impair strength, durability and appearance.
   d. Protect all dissimilar metals from galvanic corrosion by pressure tapes, coating or isolators.
   e. All metal surfaces shall be a minimum of for inches away from soil
   f. All fence heights shown on the construction plans (or details) are relative to finish grade of adjacent grade or flatwork.
   g. Concrete footings for all post shall slope a minimum of two percent away from post, a distance of four inches.
2. Ornamental Iron Fences:
   a. All welds shall be continues and free from irregularities. All exposed cuts and welds shall be ground smooth.
   b. Ornamental iron fence, post, hardware and accessories shall be hot-dipped galvanized after fabrication in compliance with ASTM specifications as applicable.
   c. All galvanized slag shall be removed from metal surfaces prior to application of primer. All metal surfaces shall be cleaned with Anchem Metalprep 79 or equal, by full emersion, followed by immersion in Anchem Galvprep SG-3 coating chemical or equal, in strict accordance with the factory procedures and instructions.
   d. Primers shall be 'Ameritone' #54 (Red) and 'Ameritone' #56WE01 (White). Apply one coat of each to metal as specified by the paint manufacturer. Primer shall be applied to clean and degrease unpainted metal bare metal surfaces. All welds shall be clean and free of slag.
   e. All exposed metal surfaces shall receive two coats of primer, as previously specified and two coats of industrial oil based paint, (See finish schedule for specific color).
   f. Erect plumb, straight, true and accurately fix in place, brace, reinforce and anchor in place. Grind all field welds smooth.
   g. After erection clean off all rust, scale and oil. Clean field welds, bolts and abraded areas. Touch up all areas with the same material as used for the shop coat leaving all surfaces ready to receive finish coats.

B. Wood Fencing & Other Carpentry:
1. General:
   a. All construction shall conform to the latest edition of the Uniform Building Code.
   b. All carpentry, as shown within these plans and details are intended to meet the minimum requirements of the State and Local codes. Any condition that does not conform shall be brought to the owner's representative's and landscape architect's attention prior to the initiation of any work.
   c. All lumber shall be as specified within the landscape improvement plans. Lumber shall be grade marked and shall conform to the standard grading and dressing rules of the West Coast Lumber Inspection Bureau or the California Redwood Association.
   d. All non-visible structural lumber shall be straight and true with a minimum amount of knots and other defects, shall be reasonably dry and shall be pressure treated Douglas fir, unless otherwise specified. Visible portions of lumber construction items shall be straight and true, reasonably dry, knot free and shall be rough-sawn-four-sides Douglas fir or redwood, unless otherwise specified.
   e. All structural lumber shall be a minimum of six inches away from soil. Decorative lumber shall be no closer than four inches from soil.
   f. All fence heights shown on the construction plans (or details), are relative to finish grade of adjacent grade or flatwork.
   g. Concrete footings for all post shall slope a minimum of two percent away from post, a distance of four inches.
   h. All nailing shall conform to the Uniform Building Code nailing schedule. Hot-dipped galvanized nails shall be used for all nailing. Finish nails shall be used fo all exposed jointing and mitering corners.
   i. All wood shall be free of hammer marks and bent nails. Mask off wood when installing concrete work or as applicable.
   j. Pre-drill all lag bolts to prevent splitting lumber.
   k. Bolts and washers are to be hot-dipped galvanized unless otherwise noted. Galvanized metal fasteners shall be used at all connections between Post and footings, beams and post and beams/joist and ledgers or as otherwise noted on the landscape improvement plans and details.
   l. Metal fasteners shall be galvanized and painted to match the adjacent lumber. Prior to painting, all galvanized materials shall be treated with "Galva-Wash" or equal, per manufacturer's recommendations.
   m. Do not build overhead structures, until finish grade has been established. Verify finish grade with the landscape improvement plans and civil engineer's plans, as applicable.
2. Painting, Staining and Preservatives:
   a. All painting, staining and preservative applications shall be even, smooth and free of runs, drips and streaking.
   b. Painting:
      - Exposed wood surfaces (specified to be painted), shall receive one coat of primer to cover, and two coats of industrial oil based paint to cover, (See finish schedule for specific color). Contractor shall submit manufacturer's cut-sheets for primer and paint, prior to initiating any work.
      - For overhead structures, the contractor shall paint each piece of lumber prior to construction. Paint hardware and touch-up areas as required after construction is complete.
   c. Staining:
      - All wood surfaces to be designated as being stained shall be uniformly coated to the satisfaction of the owner's representative's with the specific stain or approved equal. The contractor shall only stain exposed surfaces. Semi-transparent stains shall not be applied to the point of being opaque. Wood surfaces to be stain, shall not be primed.
   d. Wood preservatives:
      - Apply "Woodlife" or approved equal, according to the manufacturer's recommendations to all visible redwood, unless otherwise specified.

III. Masonry Walls

A. Construction:
1. All construction shall conform to the latest edition of the Uniform Building Code.
2. All masonry block shall be reinforced grouted masonry units, unless otherwise specified. All cells (below and above grade) are to be grouted solid, with rebar, bolts and tie-ins, with a minimum three-quarters of an inch coverage of grout or as otherwise specified.
3. Provide keyways at least 1-1/2 inches deep in construction joints in walls and slabs and between walls and footings. Accepted bulkheads designed for this purpose may be used for slabs.
4. Wall footing size, shape and reinforcement shall be in accordance with the recommendations of the project's geotechnical engineer and/or the project's structural engineer.
5. Top of walls shall be constructed level unless otherwise specified.
6. Walls shall be installed prior to any flatwork, unless otherwise specified.
7. All retaining walls shall be adequately shored during construction and the backfill operation.
8. The contractor shall be responsible insuring that sub-grade perforated drainage system adequately drains at a minimum of one and one-half percent to outlet.
9. The contractor shall be responsible for backfilling all retaining walls and footings to the finish grades, as indicated on the landscape improvement plans or civil engineer's fine grading plans. Non-expansive soils shall be used for backfill. Finish grade behind walls shall adequately drain at minimum gradient of two percent to outlet
10. Waterproofing on retaining walls shall be as specified on the landscape improvement plans and details.
11. Mortar Joints:
    a. All mortar joints shall be Portland cement - lime mortar Type 'S' and conform to the latest ASTM standards.
    b. Mortar joints shall not exceed one-half inch in width.

B. Wall Finishing:
1. Plaster.
   a. All plaster finishes, textures and colors shall match referenced architecture, unless otherwise noted on plans or directed by the owner's representative.
   b. The contractor shall apply a sample area of finished plaster (approximately four feet by four feet), for review and approval by the owner's representative and landscape architect.
   c. Apply non-yellowing water sealer to all plaster surfaces, as approved by the owner's representative.

IV. Miscellaneous Construction

A. Concrete Headers:
1. Concrete headers shall be 6" x 6" with #4 rebar continuous unless otherwise specified on plans.

V. Guarantee:

A. Guarantee:
1. All construction work shall be guaranteed against all defects of workmanship and materials, including settling of graded areas, for a period of one year from the date of final completion and acceptance by the owner have authorized representative.
2. The contractor shall provide a written guarantee (on company letterhead), at the time of final inspection.

OTAY RANCH VILLAGE 8 WEST - MAIN STREET EAST
980/711 & 815/680 PRESSURE REDUCING STATION

UTILITY NOTE	CITY "AS-BUILT"	O.W.D. "AS-BUILT"	OTAY WATER DISTRICT
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REGISTERED LANDSCAPE ARCHITECT THOMAS A. PICARO CALIFORNIA 9/30/23

IT'S THE LAW! DIAL BEFORE YOU DIG! CALL AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING 1-800-227-2600 UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

BEFORE EXCAVATING, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING UTILITY UNDERGROUND SERVICE ALERT AT 1-800-227-2600

Proj. 19010 L-5

Tributary LA, Inc.
Landscape Architecture and Planning
2725 Jefferson Street, Suite 14
Carlsbad, CA 92008
760.434.9300 office 760.434.9303 fax

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd
Contractor					
Inspector					
Date Completed					

BENCH MARK
CITY OF CHULA VISTA BENCH MARK NO.5072
ELEVATION: 446.361 NAVD 88
DESCRIPTION: 3" BRASS (LS4324) WELL MON @ ℄ INT. RUTGERS & OTAY LAKES.
PT. NO.5072 PER ROS 14841

SCALE: Horizontal N/A; Vertical N/A

Designed By	Drawn By	Checked By
TAP	CPC	TAP

Plans Prepared Under Supervision Of: THOMAS A. PICARO Date 1/5/22 R.L.A. No. 4001

Submitted ____ By ____ Planning | Land Arch

Approved ____ By ____ Principal Civil Engineer

CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT

IMPROVEMENT PLANS FOR: MAIN STREET EAST 980/711 & 815/680 PRESSURE REDUCING STATION

WALL CONSTRUCTION NOTES & SPECIFICATIONS

Drawing No. 20041 -33

W.O. No. OR657I

O.W.D. D1044-090422
DEV-19-013

REQUIRED SPECIAL INSPECTIONS

IN ADDITION TO THE REGULAR INSPECTIONS, THE FOLLOWING CHECKED ITEMS WILL ALSO REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH CHAPTER 17 OF THE CALIFORNIA BUILDING CODE. SPECIAL INSPECTION INDEPENDENT OF CONTRACTOR, ARCHITECT, OR ENGINEER OF RECORD SHALL BE PROVIDED BY OWNER ACCORDING TO THE CALIFORNIA BUILDING CODE CHAPTER 17 (TABLE TABLE 1705.3–CONCRETE, TABLE 1704.5.1 OR 1704.5.3–MASONRY). THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK FOR CONFORMANCE W/ THE CONTRACT DOCUMENTS, NOT THE SHOP DRAWINGS.

ITEM:	TYPE:	REMARKS:
CONCRETE (CBC TABLE 1705.3)	PERIODIC	VERIFYING USE OF REQUIRED DESIGN MIX
	CONTINUOUS	SAMPLING FRESH CONCRETE AND PERFORMING SLUMP AND AIR CONTENT TESTS AND DETERMINING THE TEMPERATURE OF FRESH CONCRETE AT THE TIME OF MAKING SPECIMENS FOR STRENGTH TESTS PER ACI 318
	PERIODIC	INSPECTION FOR MAINTENANCE OF SPECIIED CURING TEMPERATURE AND TECHNIQUES
STRUCTURAL STEEL AND FIELD WELDING (CBC 1705.2 AISC 360)	CONTINUOUS	PER CBC SECTION 1705.2.2, SPECIAL INSPECTION FOR STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360.
MASONRY (ACI 530–11)	PERIODIC AND CONTINUOUS	MASONRY CONSTRUCTION SHALL BE INSPECTED IN ACCORDANCE WITH ACI 530 AND ACI 530.1

SPECIAL INSPECTION NOTES:

1. THE SPECIAL INSPECTOR MUST BE CERTIFIED BY THE CITY OR GOVERNING AGENCY, IN THE CATEGORY OF WORK REQUIRED TO HAVE SPECIAL INSPECTION.
2. A PROPERTY OWNER'S FINAL REPORT FORM FOR WORK REQUIRED TO HAVE SPECIAL INSPECTIONS, TESTING AND STRUCTURAL OBSERVATIONS MUST BE COMPLETED BY THE PROPERTY OWNER, PROPERTY OWNER'S AGENT OF RECORD, ARCHITECT OF RECORD OR, ENGINEER OF RECORD AND SUBMITTED TO THE INSPECTION SERVICES DIVISION.
3. THE SPECIAL INSPECTIONS IDENTIFIED ON PLAN ARE, IN ADDITION TO, AND NOT A SUBSTITUTE FOR, THOSE INSPECTIONS REQUIRED TO BE PERFORMED BY A CITY'S OR GOVERNING AGENCY'S BUILDING INSPECTOR.

DESIGN BASIS:
CODE: 2019 C.B.C. (CALIFORNIA BUILDING CODE TITLE)

VERTICAL LOADS:

1. ROOF DEAD LOAD: 6 PSF
   ROOF LIVE LOAD: 20 PSF

LATERAL LOADS:

1. WIND

BASIC WIND SPEED (3–SECOND GUST)	97 MPH
WIND RISK CATEGORY,	II
WIND EXPOSURE	C
WIND PRESSURE (ULTIMATE):	25 PSF

2. SEISMIC

SEISMIC IMPORTANCE FACTOR, I	1.0
SEISMIC RISK CATEGORY	II
MAPPED SPECTRAL RESPONSE ACCELERATION, SS	0.732g
MAPPED SPECTRAL RESPONSE ACCELERATION, S1	0.269g
SITE CLASS	D
MAPPED SPECTRAL RESPONSE ACCELERATION, SDS	0.589g
MAPPED SPECTRAL RESPONSE ACCELERATION, SD1	0.269g
SEISMIC DESIGN CATEGORY	D
SITE CLASS	C
COMPONENT AMPLIFICATION FACTOR, ap	1.0
COMPONENT RESPONSE FACTORE, Rp	2.5
SEISMIC FORCE, Fp = 0.29 x W (LRFD)	

DESIGN CRITERIA:

1. ALLOWABLE SOIL BEARING PRESSURE = 2000 PSF
2. ALLOWABLE LATERAL PASSIVE PRESSURE = 250 PCF
3. GEOTECH REPORT: PROJECT NO. G2449–52–04 BY: GEOCON, INC. DATED OCTOBER 23, 2020
4. CONCRETE STRENGTH = 3,250 PSI @ 28 DAYS
5. GROUT STRENGTH = 2500 PSI @ 28 DAYS.
6. REINFORCING STEEL : GRADE 40 FOR #4 BARS AND SMALLER & GRADE 60 FOR #5 AND LARGER
7. 1500 PSI MASONRY COMPRESSION STRENGTH. USED – SPECIAL INSPECTION IS REQD. AND SHALL BE IN ACCORDANCE WITH ACI 530 AND ACI 530.1
8. SEE CITY OF CHULA VISTA FORM 4604 FOR TYPICAL REINFORCING, CONCRETE, MASONRY, MORTAR & GROUT SPECIFICATIONS & NOTES.

NOTE:
FOR OTHER INFORMATION NOT SHOWN, SEE LANDSCAPE ARCHITECT DRAWINGS.

CITY OF CHULA VISTA
DEPARTMENT OF PLANNING & BUILDING
BUILDING DIVISION
276 Fourth Avenue Chula Vista CA 91910
619-691-5272 619-585-5681 FAX

FORM 4604

WOOD & MASONRY FENCES

This form outlines the City's requirements for wood and masonry free standing walls and fences. Construction of a wood fence 6 feet or less in height, or a masonry fence 4 feet or less in height and not supporting surcharge, does not require a building permit from the City of Chula Vista Planning and Building Department. However, even though it is exempt from a building permit, the construction must comply with the requirements of the California Building Code as amended by the City of Chula Vista.
Fence heights are also regulated by the City Zoning Laws. For specific information about Zoning Laws, please call 691-5101.

I. FENCE HEIGHT
Fence height is measured from the top of the footing to the top of wall.

II. MASONRY FENCE SPECIFICATIONS
Masonry fences may be constructed using the specifications listed below. (Note that the use of plastic cement is not permitted in masonry fences located in Chula Vista.)

1. Concrete shall attain a compressive strength of f'c = 2,500 psi minimum at 28 days.
   1 part Portland Cement
   2 1/2 parts sand
   3 1/2 parts 3/4 - inch maximum diameter gravel
   7 gallons water maximum per sack or cement

2. Mortar shall attain a compressive strength of 1,800 psi minimum at 28 days, conforming to ASTM C270 or C1142.
   1 part Portland cement
   3 1/2 parts sand
   1/4 part hydrated lime or lime putty
   Note that the use of plastic cement is not permitted (2007 CBC Section 2106.5).

3. Grout shall attain a compressive strength equal to 2,000 psi minimum. One possible mix contains the following proportions by volume:
   1 part Portland cement
   3 parts sand
   1/10 part hydrated lime or lime putty
   1 to 2 parts pea gravel (3/8-inch aggregate)
   Add water until pouring consistency is achieved without segregation of the grout constituents. The use of plastic cement is not permitted (2007 CBC Section 2106.5). All grout shall be consolidated by vibrating immediately. Reconsolidate grout after initial water loss, but before plasticity is lost, to insure adequate consolidation.

4. Concrete block units shall be medium weight units conforming to ASTM C90, TYPE I (Lutest Revision), f'm = 1500 psi. Concrete block units are to be staggered (common bond) and are to have the vertical continuity of the cells unobstructed.

5. All reinforcing steel shall comply with ASTM A615, grade 40 for #4 bars and grade 60 for #5 bars. Vertical steel shall be centered in the concrete block cell in which it is located.

6. Wall joint reinforcing steel shall be DUR-O-WAL WIRE conforming to ASTM A82 and ASTM A641 -CLASS 3 FINISH. Minimum lap splice of joint reinforcement shall be 12 inches.

7. All cells containing reinforcing steel shall be solid grouted.

8. All horizontal wall reinforcing bars shall be placed in bond beam units. All joint reinforcing shall be placed in the mortared bed joint.

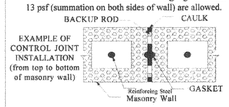
9. Minimum lap splice of reinforcing bars shall be 40 diameters.

10. All footings must extend into firm undisturbed natural soil or soil which has been compacted to at least 90 percent maximum density (the applicant must submit to the City of Chula Vista Building Division a compaction report prepared by a licensed geotechnical engineer prior to obtaining a permit).

11. Walls shall not be constructed on expansive soil (expansion index greater than 20) unless the soil has been specially prepared in accordance with recommendations of a civil or geotechnical engineer. (See Form 4591 "Construction on Expansive Soil".)

12. Provide vertical control joints at 30'-0" on center maximum. (See installation example below.)

13. Fence design includes 1/2" of plaster on each side of the wall. No finishes with a total weight greater than 13 psf (summation on both sides of wall) are allowed.



STEEL:

1. FABRICATION AND ERECTION TO CONFORM TO A.I.S.C. LATEST EDITION "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL BUILDINGS" AND "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" EXCEPT AS OTHERWISE SHOWN OR SPECIFIED.
2. QUALIFIED AND CERTIFIED WELDERS SHALL BE USED FOR ALL WELDING. WELDING TO BE PERFORMED IN THE SHOP OF A STATE LICENSED FABRICATOR. ALL WELDING TO CONFORM TO THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE A.W.S. D1.1.
3. MATERIALS:

STRUCTURAL STEEL SHAPES	A.S.T.M. A992 or A–572 (Fy = 50 K.S.I.)
STRUCTURAL STEEL CHANNEL & ANGLES	A.S.T.M. A–36
STRUCTURAL STEEL PLATES	A.S.T.M. A–36
STRUCTURAL STEEL PIPES	A.S.T.M. A53 TYPE E OR S, GRADE B
WELDING ELECTRODES	A.W.S. A–5.1 OR A–5.5. (E70XX)
ANCHOR BOLTS	A.S.T.M. A–307
TYPICAL STEEL CONNECTION BOLTS	A.S.T.M. A–307
MISCELLANEOUS BOLTS	A.S.T.M. A–307
GALVANIZING	A.S.T.M. A–123
RUST–INHIBITING PRIMER	TT–P–645 A.S.T.M.
HSS–STEEL TUBING	A.S.T.M. A–500, GRADE B (Fy=46 KSI)

4. HOT–DIPPED GALVANIZE AFTER FABRICATION ALL STRUCTURAL STEEL AND CONNECTORS EXPOSED TO WEATHER. TOUCH UP DAMAGED GALVANIZING WITH GALVALLOY AFTER ERECTION IS COMPLETE. PAINT PER LANDSCAPE ARCHITECT OR OWNER. PREPARE GALVANIZED SURFACE WITH DEVPREP 88, OR APPROVED EQUAL PRIOR TO PAINTING.
5. CONNECTED MEMBERS SHALL BEAR ONLY UPON UNTHREADED PORTIONS OF BOLTS.
6. BURNING OF HOLES IS NOT ALLOWED.
7. INSPECTION OF WELDING SHALL CONFORM TO C.B.C. REQUIREMENTS (CHAPTER 17) AND AWS D1.1.
8. THE STRUCTURAL STEEL FABRICATOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
9. BOLT HOLES SHALL BE 1/16" LARGER IN DIAMETER THAN NOMINAL SIZE OF BOLT USED, UNLESS NOTED OTHERWISE.
10. ALL STRUCTURAL STEEL SURFACES TO RECEIVE SPRAY–APPLIED FIREPROOFING OR TO BE ENCASED IN CONCRETE OR MASONRY SHALL BE LEFT UNPAINTED.
11. STRUCTURAL STEEL SHALL BE DELIVERED TO THE JOB SITE FREE OF EXCESSIVE RUST, MILL SCALE, GREASE, ETC.
12. OPENING SHALL NOT BE PLACED IN STEEL MEMBERS UNLESS SPECIFICALLY DETAILED.

(A) STRUCTURAL NOTES
SCALE: N/A

OTAY RANCH VILLAGE 8 WEST - MAIN STREET EAST
980/711 & 815/680 PRESSURE REDUCING STATION

UTILITY NOTE
ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.

CITY "AS–BUILT"
(SIGNATURE) DATE
(PRINTED NAME) R.L.A. NO.:
MY REGISTRATION EXPIRES: DISCIPLINE

O.W.D. "AS–BUILT"
(SIGNATURE) DATE
(PRINTED NAME) R.L.A. NO.:
MY REGISTRATION EXPIRES: DISCIPLINE

OTAY WATER DISTRICT
PROJECT#: D1044–090422
PERMIT#: DEV–19–013 P.Z.: W711, W624
John Thayer Digitally signed by John Thayer Date: 2021.12.27 17:22:08-08'00'
REVIEWED BY: DATE:

REGISTERED PROFESSIONAL ENGINEER DONALD R. ORTE No. 53838 Exp. 12-31-22 STRUCTURAL STATE OF CALIFORNIA

IT'S THE LAW! DIAL BEFORE YOU DIG!
CALL AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING
1–800–227–2600
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA
BEFORE EXCAVATING, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING UTILITY UNDERGROUND SERVICE ALERT AT 1–800–227–2600

Proj. 19010 ST-1
Tributary LA, Inc.
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2725 Jefferson Street, Suite 14
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BENCH MARK
CITY OF CHULA VISTA BENCH MARK NO.5072
ELEVATION: 446.361 NAVD 88
DESCRIPTION: 3" BRASS (LS4324) WELL
MON @ ℄ INT. RUTGERS & OTAY LAKES.
PT. NO.5072 PER ROS 14841

SCALE: Horizontal N/A; Vertical N/A

Designed By	Drawn By	Checked By
TAP	CPC	TAP

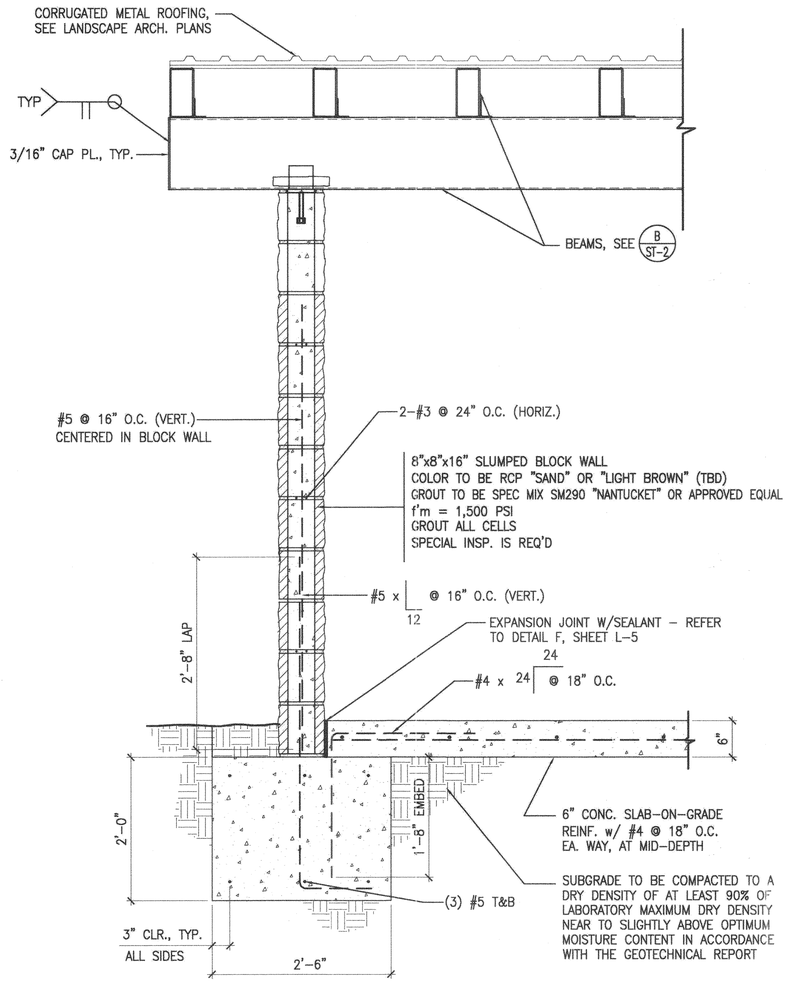
Plans Prepared Under Supervision Of
THOMAS A. PICARD Date 1/5/22 R.L.A. NO. 4001

Submitted By
Planning Land Arch
Approved By
Principal Civil Engineer

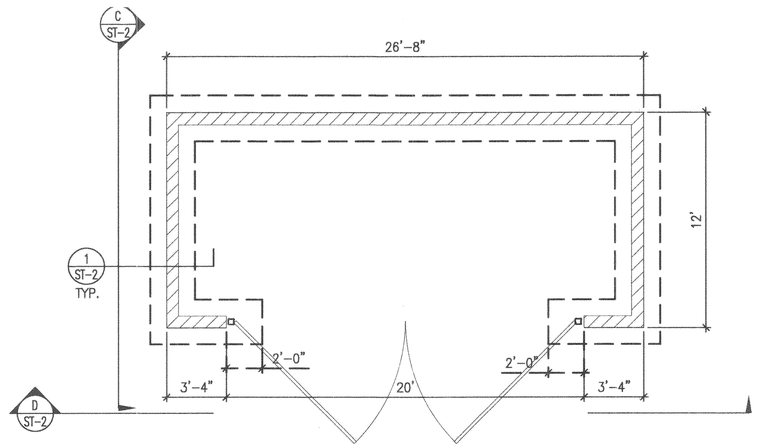
CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT
IMPROVEMENT PLANS FOR: MAIN STREET EAST 980/711 & 815/680 PRESSURE REDUCING STATION
WALL STRUCTURAL NOTES

Drawing No. 20041 - 33
W.O. No. OR6571

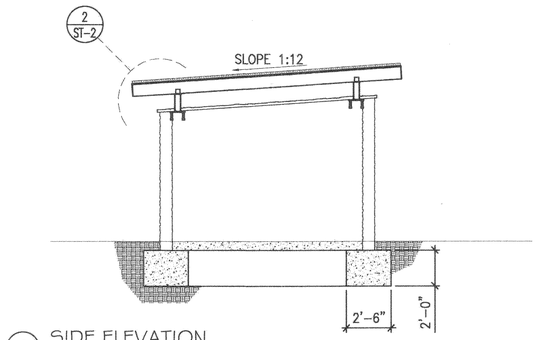
O.W.D. D1044–090422
DEV–19–013



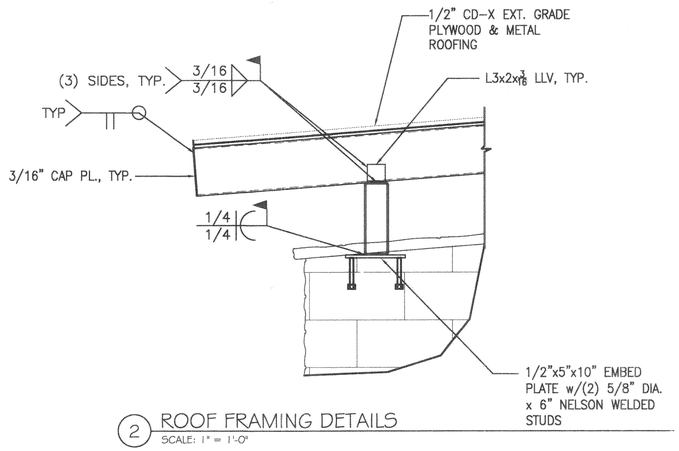
1 WALL SECTION
SCALE: 1" = 1'-0"



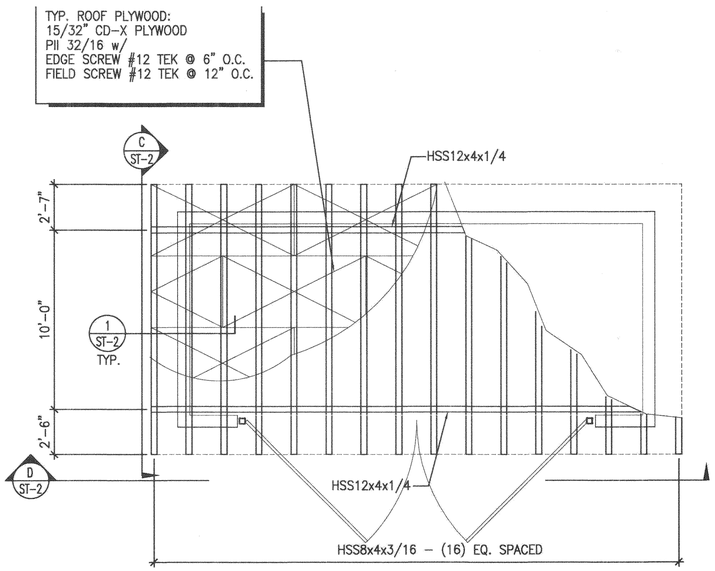
A FOUNDATION PLAN
SCALE: 1/4" = 1'-0"



C SIDE ELEVATION
SCALE: 1/4" = 1'-0"



2 ROOF FRAMING DETAILS
SCALE: 1" = 1'-0"



B ROOF FRAMING PLAN
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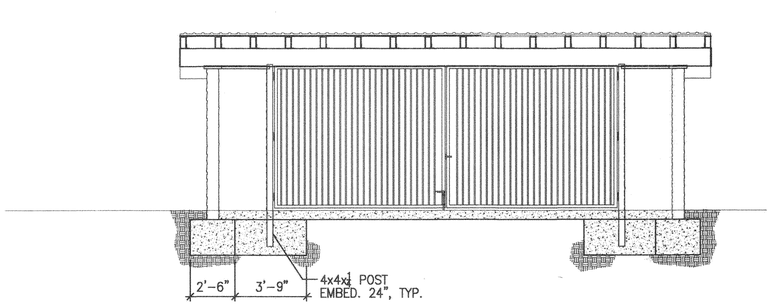

D ENTRY GATE & FRON ELEVATION
SCALE: 1/4" = 1'-0"

OTAY RANCH VILLAGE 8 WEST - MAIN STREET EAST
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Proj. 19010
ST-2

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WALL STRUCTURAL DETAILS

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