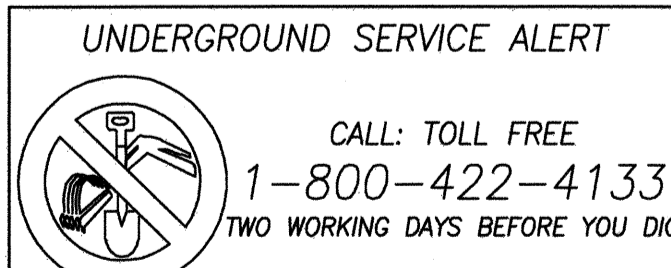


A. GENERAL NOTES

- 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.

B. "DIG ALERT NOTICE"

SECTION 4215/4217 OF THE GOVERNMENT CODE REQUIRES THAT A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. PER YOUR DIG ALERT I.D. NUMBER CALL UNDERGROUND SERVICE ALERT TOLL FREE 1-800-422-4133 TWO WORKING DAYS BEFORE YOU DIG.



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

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.

ENGINEER AS-BUILT CERTIFICATE

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

(SIGNATURE) DATE ALISA S. VIALPANDO P.E. NO.: 47945
MY REGISTRATION EXPIRES: DISCIPLINE CIVIL

BENCHMARK NOTE:

SUBTRACT 2.13' FROM THE NAVD 88 ELEVATIONS SHOWN HEREON TO REACH [INGVD 29] ELEVATIONS.

O.W.D. "AS-BUILT"

(SIGNATURE) DATE ALISA S. VIALPANDO P.E. NO.: 47945
MY REGISTRATION EXPIRES: DISCIPLINE CIVIL

PUBLIC IMPROVEMENT PLANS FOR: MAIN STREET (EAST OF HERITAGE ROAD) CHULA VISTA, CA. TRACT NO. 16-02

C. 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.
2. CONTRACTOR WILL MAKE EXPLORATORY 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.

D. 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 SHALL 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. THE DEVELOPER/CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPLACING ANY VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.

E. PRECONSTRUCTION CONFERENCE

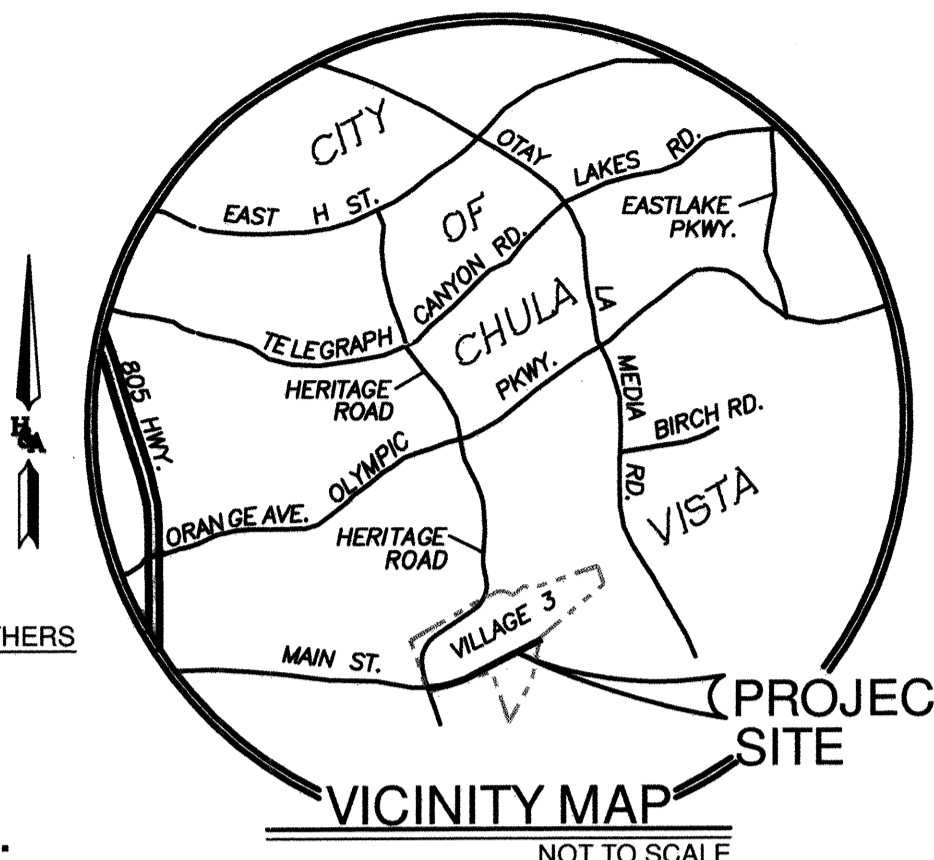
THE CONTRACTOR SHALL NOT BEGIN WORK ON THIS PROJECT UNTIL A PRE-CONSTRUCTION CONFERENCE IS HELD AMONG THE ENGINEER OF WORK, SOILS ENGINEER, DEVELOPER, CONTRACTOR, AND CITY INSPECTOR.

F. SHEET INDEX

Table with 2 columns: SHT. and TITLE SHEET & NOTES. Includes SHT. 01, 02, 03, 04-17, 18, 19, 20-21, 22-31.

G. INSPECTION AND APPROVAL

Table with 3 columns: DESIGN, APPROVAL, INSPECTION. Includes PUBLIC WATER (POTABLE), PUBLIC RECYCLED WATER, PUBLIC STORM DRAIN, PAVING, PUBLIC SEWER.



H. 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 80 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.

HOMEFED VILLAGE 3 MASTER, LLC 1903 WRIGHT PLACE, SUITE 220 CARLSBAD, CA 92008 (760) 918-8200

BY: CHRIS FOULGER DATE: 11/10/22

I. APPLICANT

HOMEFED VILLAGE 3 MASTER, LLC 1903 WRIGHT PLACE, SUITE 220 CARLSBAD, CA 92008 (760) 918-8200

J. SOILS ENGINEER'S CERTIFICATE

I, SHAWN WEEDON, A CERTIFIED ENGINEERING GEOLOGIST OF THE STATE OF CALIFORNIA, PRINCIPALLY DOING BUSINESS IN THE FIELD OF APPLIED SOIL MECHANICS, HEREBY VERIFY THAT A SAMPLING AND STUDY OF THE SOIL CONDITIONS PREVALENT WITHIN THIS SITE WAS MADE BY ME OR UNDER MY DIRECTION BETWEEN THE DATES OF SEPTEMBER 2017 AND DECEMBER 2017. ONE COMPLETE COPY OF THE SOILS REPORT COMPILED FROM THIS STUDY, WITH MY RECOMMENDATIONS, HAS BEEN SUBMITTED TO THE OFFICE OF THE CITY ENGINEER.

SIGNED: [Signature] DATE: 11/14/2022
DISCIPLINE: CIVIL GEOTECHNICAL EXPIRATION DATE: 6/30/23



K. 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.

HUNSAKER & ASSOCIATES SAN DIEGO, INC. 9707 WAPLES STREET SAN DIEGO, CA 92121

BY: ALISA S. VIALPANDO DATE: 11/10/22
ALISA S. VIALPANDO, P.E. NO. 47945

L. LEGAL DESCRIPTION

MAIN STREET RIGHT-OF-WAY DEDICATED ON MAP NO. 16160, IN THE CITY OF CHULA VISTA, COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, ACCORDING TO MAP THEREOF FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY DECEMBER 21, 2016, OFFICIAL RECORDS.

M. ASSESSOR'S PARCEL NOS.

N/A

N. CALIFORNIA COORDINATES

1797-6331

APPROVED FOR SEWER ONLY

Approved 11/21/2022
By: [Signature] Principal City Engineer

Table with 3 columns: NO., OTAY WATER DISTRICT REVISIONS, App'd Date.



PLANNING 9707 Waples Street San Diego, CA 92121
ENGINEERING San Diego, CA 92121
SURVEYING PH: (619) 558-4500 FAX: (619) 558-4144
ACCELA NO. = IP22-0003
TOTAL NUMBER OF SHEETS: 31

CONSTRUCTION RECORD table with columns: CONTRACTOR, INSPECTOR, DATE COMPLETED, REFERENCES, BY, REVISIONS, DATE, APP'D, DATED, SCALE, DESIGNED BY, DRAWN BY, CHECKED BY, SUBMITTED, BY, APPROVED, CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT, DRAWING NO. 22001-01

R:\1327P\Eng\Improvement Plans\Main Street\1327P01.dwg [Nov-10-2022:12:19]

MAIN STREET EAST OF HERITAGE ROAD PUBLIC IMPROVEMENT PLAN

S. OTAY WATER DISTRICT NOTES

- WATER MAINS AND APPURTENANCES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS AND THE CURRENT APPROVED WATER AGENCIES' STANDARDS.
- 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.
- 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.
- 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.
- WATER PRESSURE REGULATORS WILL BE REQUIRED. THE INSTALLATION AND MAINTENANCE OF REGULATORS SHALL BE THE RESPONSIBILITY OF THE DEVELOPER.
- APPROVAL OF THE PLANS BY THE OTAY WATER DISTRICT DOES NOT CONSTITUTE RESPONSIBILITY FOR ACCURACY OF INFORMATION NOR LOCATIONS OF EXISTING FACILITIES.
- 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.
- 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.
- NO MORE THAN 70 EQUIVALENT DWELLING UNITS CAN BE ON AN UNLOOPED SYSTEM.
- 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.
- 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.
- 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.
- 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 STANDARD DRAWING 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.
- 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.com/>, 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.
- A MINIMUM OF 24-INCHES OF PERMANENT BACKFILL SHALL BE INSTALLED OVER THE WATER MAIN PRIOR TO ANY TESTING.
- ALL NEW GATE AND BUTTERFLY VALVES SHALL HAVE FLANGED ENDS UNLESS OTHERWISE APPROVED BY THE DISTRICT ENGINEER.

T. PAVEMENT NOTE

THE OFFICE OF THE CITY ENGINEER SHALL DESIGN ALL STRUCTURAL STREET SECTIONS BASED ON THE "R" VALUE METHOD SPECIFIED BY THE CITY ENGINEER. THE SOIL TEST SHALL BE PERFORMED BY A REGISTERED CIVIL ENGINEER WHOSE PRIMARY PROFESSIONAL ACTIVITY IS PERFORMING SUCH TESTS. TEST RESULTS SHALL BE PROVIDED TO THE CITY BY THE SUBDIVIDER IN THE NUMBER AND AT SUCH LOCATIONS AND TIMES AS DETERMINED BY THE CITY ENGINEER. WHERE HEAVY GRADING IS PROPOSED, GATHERING OF SAMPLES SHALL BE DELAYED UNTIL ROUGH SUBGRADE IS MADE. MINIMUM BASE THICKNESS ON ALL STREET CLASSIFICATIONS SHALL BE PER SECTION 3-405.3 OF THE SUBDIVISION MANUAL. BASE MATERIAL SHALL CONFORM TO CRUSHED AGGREGATE BASE, 3/4 INCH MAXIMUM, OR APPROVED ALTERNATIVE, AS SET FORTH IN THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, SECTION 200-2.2 LATEST EDITION. ALL ASPHALT CONCRETE SURFACES SHALL BE SEAL COATED IN ACCORDANCE WITH SECTION 302-5.10 OF THE CITY OF CHULA VISTA STANDARD SPECIAL PROVISIONS.

U. SPECIAL STREET LIGHT NOTE

STREET LIGHT CONSTRUCTION SHALL NOT PROCEED UNTIL SERVICE POINTS ARE KNOWN AND STREET LIGHTING CONDUIT, PULL BOXES, AND WIRE SIZES ARE SHOWN ON THESE PLANS TO THE SATISFACTION OF THE CITY ENGINEER. STREET LIGHT WIRING AND SERVICE POINTS SHALL BE ADDED TO THESE PLANS BY A CONSTRUCTION CHANGE APPROVED BY THE CITY ENGINEER.

V. TRAFFIC CONTROL

TRAFFIC CONTROL PLANS SHALL BE REQUIRED FOR ALL WORK PERMITTED WITHIN THE CITY RIGHT-OF-WAY THAT MAKES IT NECESSARY FOR MOTORISTS TO DEVIATE FROM THE NORMAL COURSE OF TRAVEL. SAID TRAFFIC CONTROL PLANS SHALL CONFORM TO THE LATEST STANDARDS SET FORTH IN PART 8 OF THE MUTCD MANUAL WITH THE CALIFORNIA SUPPLEMENT OR THE LATEST VERSION OF THE SAN DIEGO REGIONAL STANDARDS. THE CITY OF CHULA VISTA TRAFFIC ENGINEERING SECTION PRIOR TO THE ISSUANCE OF PERMITS SHALL APPROVE THESE PLANS FOR ANY SUCH WORK.

IF THE NEED FOR TRAFFIC CONTROL BECOMES APPARENT AFTER THE ISSUANCE OF A PERMIT OR START OF WORK, THE INSPECTION SECTION MAY REQUIRE THE PREPARATION OF SUCH A PLAN. IF SUCH A DETERMINATION IS MADE BY THE INSPECTION SECTION, UPON NOTIFICATION OF THE SUPERINTENDENT OF THE JOB IN QUESTION, WORK IN THE RIGHTS OF WAY SHALL CEASE UNTIL SUCH TIME AS TRAFFIC CONTROL PLANS HAVE BEEN APPROVED BY TRAFFIC ENGINEERING.

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 SHALL 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.

W. TRAFFIC STRIPES, PAVEMENT MARKING AND PAVEMENT MARKERS

- ALL DETAILS AND DIMENSIONS FOR TRAFFIC STRIPES AND MARKINGS SHALL CONFORM TO THE CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) TRAFFIC MANUAL AND MAINTENANCE MANUAL, THE LATEST VERSION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AND CALIFORNIA SUPPLEMENTS. PAVEMENT STRIPES SHALL CONFORM TO SECTION 310-5.6 OF THE STANDARD SPECIFICATIONS AND THESE SPECIAL PROVISIONS.
- TRAFFIC LINE PAINT SHALL BE RAPID DRY CONFORMING TO SECTION 210-1.6.3 AND SHALL CONTAIN REFLECTIVE MATERIAL CONFORMING TO SECTION 210-1.6.5 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL FURNISH THE NECESSARY CONTROL POINTS FOR ALL STRIPING AND MARKINGS, AND SHALL BE RESPONSIBLE FOR THE COMPLETENESS AND ACCURACY THEREOF TO THE SATISFACTION OF THE ENGINEER.
- REFLECTORIZED PAVEMENT MARKERS SHALL BE INSTALLED ON ALL LANE LINES AND CENTERLINE STRIPING PER APPROPRIATE CALTRANS "DETAIL NUMBER." BLUE REFLECTORIZED PAVEMENT MARKER FOR FIRE HYDRANT LOCATION TO BE INSTALLED PER CALTRANS TRAFFIC MANUAL, FIG. 6-48. PAVEMENT MARKERS SHALL CONFORM TO SECTION 85, "PAVEMENT MARKERS" OF THE CALTRANS STANDARD SPECIFICATIONS AND THESE SPECIAL PROVISIONS. PAVEMENT MARKER HEIGHT SHALL BE 0.70-INCH MINIMUMS. "LOW PROFILE" TYPE MARKERS WILL NOT BE ACCEPTABLE.
- NOTHING IN THESE SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM HIS/HER RESPONSIBILITIES AS PROVIDED IN SECTION 7-1.09, "PUBLIC SAFETY," OF THE CALTRANS STANDARD SPECIFICATIONS, SECTION 7-10 OF THE GREEN BOOK.
- USE HOT APPLIED "THERMOPLASTIC" MATERIALS FOR CROSSWALKS AND LIMIT LINES. SEE SECTION 84-2 OF CALTRANS STANDARD SPECIFICATIONS (JULY 1999).
- PAINTING TRAFFIC STRIPES (TRAFFIC LINES) & PAVEMENT MARKINGS SHALL CONFORM TO SECTION 84-1, "GENERAL", & 84-3, "PAINTED TRAFFIC STRIPES & PAVEMENT MARKINGS", OF THE CALTRANS STANDARD SPECIFICATIONS.
- CONTROL OF ALIGNMENT AND LAYOUT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUBJECT TO APPROVAL BY THE ENGINEER.
- SECTION 84-3.02, "MATERIALS", OF THE STANDARD SPECIFICATIONS IS AMENDED TO READ:

PAINT FOR TRAFFIC STRIPES AND PAVEMENT ARROWS SHALL CONFORM TO THE FOLLOWING STATE SPECIFICATIONS:

PAINT STATE SPECIFICATION NO.
RAPID DRY WATER-BORNE, # PTWB-01
WHITE, YELLOW, AND BLACK, DECEMBER 2003
- GLASS BEADS SHALL CONFORM TO STATE SPEC. NO. 8010-51J-22 (TYPE III)
- COPIES OF STATE SPECIFICATIONS FOR TRAFFIC PAINT AND GLASS BEADS MAY BE OBTAINED FROM THE TRANSPORTATION LABORATORY, P.O. BOX 19128, SACRAMENTO, CA 95819, TEL. (916) 739-2400 OR @ HTTP://WWW.DOT.CA.GOV/HQ/ESC/TSSB/CHEMICAL/SPECPTWB-01 (DEC03).PDF.
- THINNING OF PAINT WILL NOT BE ALLOWED.
- PAINT SHALL BE TESTED PRIOR TO USE, OR THE MANUFACTURER SHALL PROVIDE THE CITY ENGINEER WITH A CERTIFICATE OF COMPLIANCE IN ACCORDANCE WITH SECTION 6.1.07, "CERTIFICATE OF COMPLIANCE", OF THE STANDARD SPECIFICATIONS. SAID CERTIFICATE SHALL CERTIFY THAT THE PAINT COMPLIES WITH THE SPECIFICATIONS AND THAT PAINT MANUFACTURED TO THE SAME FORMULATION AND PROCESS HAS PREVIOUSLY PASSED STATE TESTING. A LIST OF MANUFACTURERS THAT HAVE PRODUCED PAINT MEETING STATE SPECIFICATION IS AVAILABLE FROM THE STATE'S TRANSPORTATION LABORATORY. (MATERIAL SUPPLIED BY MANUFACTURERS OTHER THAN THOSE THAT HAVE MANUFACTURED APPROVED PAINT WILL REQUIRE COMPLETE TESTING.)

14. THE SECOND PARAGRAPH IN SECTION 84-3.03, "MIXING", OF THE STANDARD SPECIFICATIONS IS DELETED.

15. ON NEW SURFACING, THE FIRST COAT OF PAINT FOR TRAFFIC STRIPING SHALL BE APPLIED NO LATER THAN 24 HOURS FOLLOWING COMPLETION OF ROLLING. THE SECOND COAT SHALL BE COMPLETED NO LATER THAN 4:00 P.M. OF THE FOLLOWING WORKDAY.

16. THE CONTRACTOR SHALL BE REQUIRED TO PAINT TRAFFIC STRIPES AND PAVEMENT MARKINGS AND INSTALL RAISED PAVEMENT MARKERS PER CALTRANS STANDARD PLANS.

17. ALL NEW SANDBLASTING OF REDUNDANT STRIPING SHALL BE COMPLETED WITHIN 48 HOURS OF THE CHANGES.

18. INSIDE DIMENSION OF ALL CROSSWALKS TO BE 10 FEET. (TRF-01)PAVEMENT STRIPING REMOVAL, RE-STRIPING, AND MARKING

19. EXISTING TRAFFIC STRIPES AND MARKINGS THAT DO NOT CONFORM TO THE PLANS SHALL BE REMOVED BY SAND BLASTING AS SHOWN ON PLANS. CONTRACTOR IS RESPONSIBLE TO VERIFY THE LINEAL FOOTAGE OF STRIPING TO BE REMOVED.

20. SPOTTING SHALL BE COMPLETED PRIOR TO THE REMOVAL OF ANY EXISTING STRIPES. EXISTING STRIPES AND MARKINGS SHALL BE REMOVED PRIOR TO PAINTING NEW ONES, BUT IN NO CASE SHALL ANY SECTION OF STREET BE LEFT WITHOUT PROPER STRIPING FOR MORE THAN 24 HOURS, OR OVER WEEKENDS OR HOLIDAYS.

21. CONTRACTOR SHALL REMOVE PAVEMENT LEGENDS/MARKINGS, TRAFFIC STRIPING, AND ASSOCIATED RAISED PAVEMENT MARKERS AS SHOWN ON THE PLANS.

22. EXISTING RAISED PAVEMENT MARKERS, WHEN ADJACENT TO A PAINT STRIPE, WHICH IS TO BE REMOVED, SHALL BE REMOVED AND DISPOSED OF.

23. IF, FOR ANY REASON, THERE WILL BE A PERIOD OF TIME AFTER REMOVAL OF EXISTING STRIPING AND PAINTING OF NEW STRIPING, DURING WHICH PUBLIC TRAFFIC WILL USE ALL OR A PORTION OF ANY ROADWAY IN THE PROJECT AREA, THE CONTRACTOR SHALL PROVIDE TEMPORARY DELINEATION WITH "CHIP SEAL MARKERS"; WHITE (ONE WAY), TYPE W, AND YELLOW (TWO-WAY), TYPE Y, TEMPORARY PAVEMENT MARKERS, BOTH TYPES WITH REFLECTIVE STRIPS; OR APPROVED EQUAL). THESE MARKERS SHALL BE EITHER WHITE OR YELLOW, AS DIRECTED BY THE PUBLIC WORKS INSPECTOR, AND SHALL BE AT MAXIMUM 24-FOOT CENTERS. THE MARKER WILL BE PLACED EITHER ON THE OLD LINES, WHICH WERE JUST REMOVED, OR ON NEW LINES LAID OUT BY THE CONTRACTOR, AS DIRECTED BY THE CITY ENGINEER. THE FURNISHING AND INSTALLING OF THESE MARKERS SHALL BE IN ADDITION TO ANY OTHER DELINEATION (CONES, SIGNS, BARRICADES, ETC.), WHICH ARE REQUIRED FOR PUBLIC SAFETY. AFTER CONTRACTOR HAS PAINTED THE NEW STRIPING, CONTRACTOR SHALL REMOVE AND DISPOSE OF THESE TEMPORARY PAVEMENT MARKERS.

24. ALL SIGNS REMOVED AND SALVAGED SHALL BE DELIVERED TO THE CITY CORPORATION YARD, 1800 MAXWELL ROAD. ATTENTION: DAVID SAVAGE, SIGNS AND STRIPING SUPERVISOR AT (619) 397-6207.

X. SIGNS

- THE CONTRACTOR SHALL FURNISH NEW VANDAL PROOF NUTS, BOLTS, WASHERS, FRAMEWORK AND OTHER MOUNTING HARDWARE.
- ALL NEW SIGNS SHALL BE ALUMINUM WITH ASTM TYPE 11 REFLECTIVE SHEETING OR APPROVED EQUAL.
- ALL SIGNS REMOVED AND SALVAGED SHALL BE DELIVERED TO THE CITY CORPORATION YARD, 1800 MAXWELL ROAD; ATTENTION DAVID SAVAGE, SIGNS AND STRIPING SUPER AT (619) 397-6207.

Y. SEWER NOTES

- SEWER SHOWN ON THESE PLANS IS P.V.C. SEWER PIPE PER ASTM D-3034 TYPE PSM SDR-35, UNLESS OTHERWISE NOTED, WITH MINIMUM PIPE STIFFNESS OF 48 WHEN TESTED AT FIVE PERCENT DEFLECTION. GRAVITY P.V.C. SEWER SHALL HAVE A 3/4 INCH MAXIMUM CRUSHED ROCK BACKFILL TO ONE FOOT ABOVE THE PIPE.
- AS AN ALTERNATE TO P.V.C. AN A.B.S. COMPOSITE SEWER PIPE CONFORMING TO ASTM D-2680 WITH TYPE S.C. COUPLERS MAY BE USED IN SIZES EIGHT INCHES AND ABOVE. FOUR INCHES OR SIX INCHES SHALL BE A.B.S. SOLID WALL WITH F/DY NOT LESS THAN 150 PSI PER ASTM D- 2751.
- SEWER CONTRACTOR SHALL MAKE CERTAIN THAT ALL MANHOLES ARE CONSTRUCTED IN EXACT LOCATION SHOWN, AND WITH THE OFFSET CONE POSITIONED AWAY FROM SURVEY MONUMENT LOCATION ADJACENT THERETO.
- THE PIPE BEDDING SHALL BE IN ACCORDANCE WITH REGIONAL STANDARD DRAWING NO. SP-02.
- THE P.V.C. AND A.B.S. PIPE CONNECTIONS TO MANHOLES SHALL HAVE MANHOLE WATER STOP GASKETS AT EACH CONNECTION TO MANHOLES. THESE WATER STOP GASKETS SHALL BE CONSIDERED TO BE INCLUDED IN THE UNIT PRICE BID FOR MANHOLES.
- RIM ELEVATIONS SHOWN ARE FOR INFORMATION ONLY. ALL MANHOLES SHALL BE ADJUSTED TO FINISHED GRADE, FINAL PAVING ELEVATIONS AND CROSS SLOPES ACCORDING TO CHULA VISTA STANDARDS AND SPECIAL PROVISIONS.
- EACH UNIT SHALL RECEIVE ONE SEWER LATERAL WHICH WILL BE SHOWN ON AS-BUILT PLANS.
- PIPE CONNECTION SHALL RECEIVE ONE SEWER LATERAL WHICH WILL BE SHOWN ON AS-BUILT PLANS.
- AN "S" MUST BE STAMPED ON CURB AT ALL SEWER LATERAL LOCATIONS.
- PIPE CONNECTION TO MANHOLE (MH) SHALL COMPLY WITH REGIONAL STANDARDS.
- EACH SEWER LATERAL SHALL RECEIVE ONE (1) CLEANOUT INSTALLED AT PROPERTY LINE.

Z. FIRE NOTES

- COMMERCIAL FIRE HYDRANTS SHALL HAVE ONE (1) 1 1/4-INCH OUTLET AND TWO (2) 2 1/2-INCH OUTLETS. RESIDENTIAL FIRE HYDRANTS SHALL HAVE ONE (1) FOUR INCH OUTLET AND TWO (2) 1 1/2-INCH OUTLETS. INSTALLATION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
- FIRE HYDRANT SPACING:
• 300 FEET FOR COMMERCIAL BUILDINGS, APARTMENTS & CONDOMINIUMS.
• 500 FEET FOR RESIDENTIAL
• 1,000 FEET ON PARKWAYS-ALTERNATING SIDES OF STREET.
- PROTECTION OF FIRE HYDRANTS TO BE PROVIDED AND MAINTAINED AT ALL TIMES.
- WATER SUPPLY SHALL BE INSTALLED AND OPERABLE PRIOR TO DELIVERY OF COMBUSTIBLE MATERIALS TO THE SITE.
- WATER SUPPLY WILL CONSIST OF FIRE HYDRANTS AS APPROVED AND INDICATED BY THE FIRE DEPARTMENT DURING PLAN CHECK. A TEMPORARY SUPPLY MAY BE ALLOWED AND WILL INCLUDE ABOVE GROUND PIPING (HIGH LINE) CONNECTED TO AN UNDERGROUND SUPPLY. ANY TEMPORARY WATER SUPPLY SOURCE IS SUBJECT TO PRIOR APPROVAL FROM THE FIRE MARSHAL.
- PROVIDE AND MAINTAIN AN APPROVED FIRE DEPARTMENT ACCESS ROAD (MINIMUM 20' WIDE AND 13'-6" VERTICAL CLEAR) PRIOR TO ANY COMUSTIBLES BEING BROUGHT ON THE SITE. THE FIRE DEPARTMENT ACCESS ROAD SHALL BE PROVIDED TO WITHIN 150' OF THE MOST REMOTE POIN OF THE UNFINISHED BUILDING MATERIAL OR COMBUSTIBLE CONSTRUCTION MATERIAL COMPLY WITH THE REQUIREMENTS SET FORTH IN CHULA VISTA FIRE DEPARTMENT STANDARD OPERATIONAL GUIDELINES, NO. OS2916.00.
- ACCESS TO FIRE HYDRANTS TO BE PROVIDED AND MAINTAINED AT ALL TIMES. HYDRANTS SHALL NOT BE OBSTRUCTED IN ANY MANNER. CURBS SHALL BE PAINTED RED A MINIMUM OF 15 FEET ON EACH SIDE OF HYDRANT. FIRE LANE SHALL BE IDENTIFIED PER THE CHULA VISTA FIRE DEPARTMENT FIRE LANE IDENTIFICATION STANDARDS.
- THE FIRE FLOWS SHALL BE DETERMINED BY THE FIRE MARSHAL.
- TEMPORARY STREET NAME SIGNS SHALL BE PROVIDED BEFORE CONSTRUCTION BEGINS AND SHALL BE THE SOLE RESPONSIBILITY OF THE DEVELOPER.

AA. CONSTRUCTION NOTES

- NEW CONSTRUCTION IS SHOWN IN BOLD LINES AND EXISTING IMPROVEMENTS ARE SHOWN IN LIGHT LINES. USE ALL NEW EQUIPMENT AND HARDWARE EXCEPT WHEN NOTED IN THE PLAN, SCHEDULE OR SPECIFICATION. ALL OTHER EQUIPMENT SHALL REMAIN IN PLACE.
- REMOVE AND SALVAGE STREET NAME SIGNS, STOP SIGNS, AND POSTS. REMOVE ABANDONED FOUNDATIONS TO A DEPTH OF 6' BELOW EXISTING SURFACE GRADE OR 30" BELOW GRADE IN DIRT AREAS. SALVAGED EQUIPMENT SHALL BE DELIVERED TO THE CITY CORPORATION YARD LOCATED AT 1800 MAXWELL ROAD. ALL OTHER REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
- SANDBLAST EXISTING STOP LEGENDS, LANE LINES, AND CONFLICTING STRIPING AS SHOWN ON PLAN. ALL SANDBLASTED AREAS SHALL BE REPAVED BY APPLYING A SEAL COAT OR OTHER APPROVED METHODS IN ORDER TO RESTORE THE PAVEMENT'S EXISTING CONDITION.
- CROSSWALK, LIMIT LINES, TURN ARROWS, AND LEGEND SHALL BE INSTALLED IN THERMOPLASTIC.
- TRAFFIC SIGNAL STANDARDS AND EQUIPMENTS SHALL BE INSTALLED TO ALLOW FOR A FOUR FEET (4') A.D.A. CLEARANCE. INSTALL CONDUIT AWAY FROM AN EXISTING AND OR PROPOSED LOCATION OF PEDESTRIAN RAMP.
- SECTION 4216/4217 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NO., CALL UNDERGROUND SERVICE ALERT TOLL FREE 1-800-422-4133 TWO WORKING DAYS BEFORE E YOU DIG.

BB. RCP STORM DRAIN BEVELING NOTES:

- WHERE RADIUS CURVE=90 FEET TO 45 FEET, USE 8-FOOT LENGTH OF PIPE BEVELED ONE END.
- WHERE RADIUS CURVE=45 FEET TO 22 1/2 FEET, USE 8-FOOT LENGTH OF PIPE BEVELED BOTH ENDS.
- WHERE RADIUS CURVE=22 1/2 FEET, USE 4-FOOT LENGTH OF PIPE BEVELED BOTH ENDS.
- CONTRACTOR SHALL PROVIDE LAYOUT SHEET OF BEVELED PIPE PRIOR TO BEGINNING INSTALLATION.

BENCHMARK NOTE:
SUBTRACT 2.13' FROM THE NAVD 88 ELEVATIONS SHOWN HEREON TO REACH [NGVD 29] ELEVATIONS.

APPROVED FOR SEWER ONLY

Approved 11/21/2023
By [Signature]
Principal City Engineer

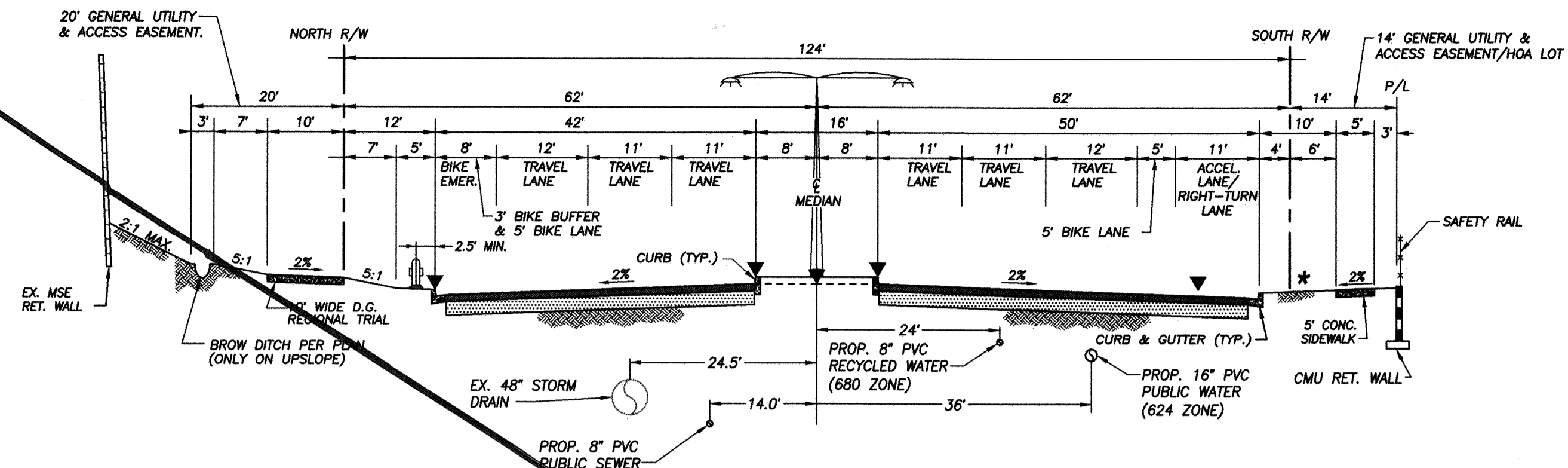
NO.	OTAY WATER DISTRICT REVISIONS	App'd	Date



PLANNING 9707 Wagon Street
ENGINEERING San Diego, CA 92121
SURVEYING PH:(619)558-6500 FX:(619)558-1414

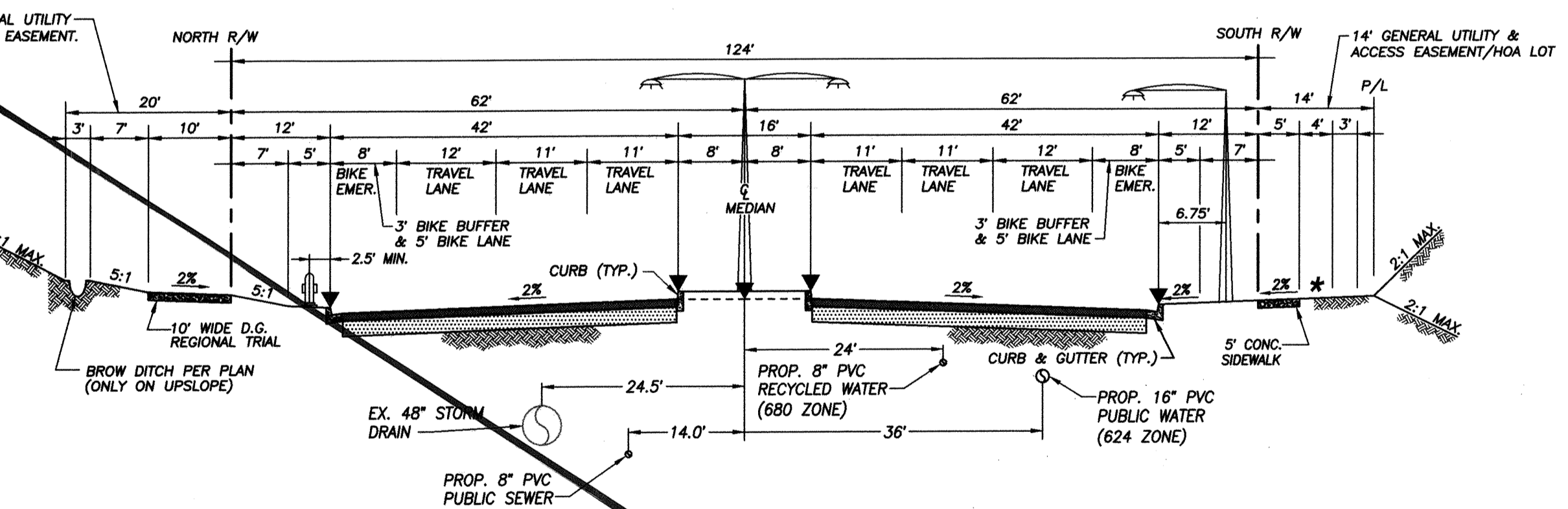
UTILITY NOTE				CITY "AS-BUILT"				O.W.D. "AS-BUILT"				OTAY WATER DISTRICT			
ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.				DATE	DATE	DATE	DATE	PROJECT#:	D.L.	Drawn By	Checked By	Submitted: <u>11/20/2023</u>			
				(SIGNATURE) ALISA S. VIALPANDO (PRINTED NAME)	P.E. NO.: 47945	(SIGNATURE) ALISA S. VIALPANDO	P.E. NO.: 47945	PERMIT#:	D.L./G.D.	Y.C./A.V.	By: <u>[Signature]</u>				Approved: <u>11/21/2023</u>
MY REGISTRATION EXPIRES:	DISCIPLINE	CIVIL	MY REGISTRATION EXPIRES:	DISCIPLINE	CIVIL	REVIEWED BY:	DATE:	Planning:	Landscape:	Approved: <u>11/21/2023</u> By: <u>[Signature]</u> Principal Civil Engineer					
CONSTRUCTION RECORD				REFERENCES				DATUM				Scale			
Contractor:	C.C.V. DWG. 16026	BY	REVISIONS	Date	App'd	DESCRIPTION: BRASS DISK MARKED "SD CITY ENGR." IN 3/4" IRON PIPE, 15 MILES EAST OF INTERSECTION OF MAIN ST. & HERITAGE RD. 10' HIGH BOLLARD, 15' SOUTHERLY OF WATER STORAGE FACILITY. (PT. #1359 PER R.O.S. 14841) ELEV. 628.319 DATUM: NAVD 88 (NAVD 29)				Horizontal					
Inspector:	C.C.V. DWG. 14032					Vertical				Planned Under Supervision Of Date <u>11/18/23</u> ALISA S. VIALPANDO R.C.E. No. 47945					
Date Completed:	C.C.V. DWG. 21045									Submitted: <u>11/20/2023</u> By: <u>[Signature]</u> Approved: <u>11/21/2023</u> By: <u>[Signature]</u> Principal Civil Engineer					
	C.C.V. DWG. 20024									Planning: N/A Landscape:					

R:\13271&Eng\Improvement Plans\Main Street Imp\13271P02.dwg\Nov-17-2022-16:27



6-LANE PRIME ARTERIAL/55 MPH DESIGN SPEED
 TRAFFIC INDEX (TI): 9.5 (5' AC/12" CLASS II BASE)
 STRUCTURAL SECTION PER GEOTECHNICAL REPORT. FINAL SECTION TO BE DETERMINED ON FIELD R-VALUE TESTING.
 NOTE: UTILITY VAULTS WITHIN PARKWAYS SHALL MATCH PROPOSED PARKWAY SLOPE.

MAIN STREET (STA. 53+13.28 TO STA. 63+88.00)
 6-LANE PRIME NOT TO SCALE



6-LANE PRIME ARTERIAL/55 MPH DESIGN SPEED
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MAIN STREET (FROM HERITAGE RD. TO STA 53+13.28 AND STA 63+88.00 TO STA. 66+50.39)
 6-LANE PRIME NOT TO SCALE

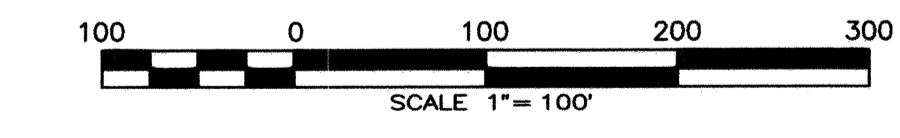
LEGEND:

SYMBOL	SYMBOL
MAP LOT NO.	13
NEIGHBORHOOD DESIGNATION	R-13
SHEET NUMBER	11
SUBDIVISION BOUNDARY	---
LOT LINE	---
SEWER MAIN	—S—
WATER MAIN	—W—
FIRE MAIN	—F—
RECYCLED WATER MAIN	—RW—
FIRE HYDRANT	⊕
EX. STORM DRAIN	---
STREET LIGHT	⊙
TRAFFIC SIGNAL	⊕
DIRECTION OF FLOW	→
SURVEY MONUMENT	⊕

HERITAGE ROAD
 C.C.V. DWG. 14032

MAIN STREET
 C.C.V. DWG. 02025
 & 94-107

KEY MAP
 SCALE: 1"=100'



APPROVED FOR SEWER ONLY

Approved: 11/21/2022
 By: [Signature]
 Principal City Engineer

HUNSAKER & ASSOCIATES
 SAN DIEGO, INC.

REGISTERED PROFESSIONAL ENGINEER
 ALISA S. VIALPANDO
 C 47945
 CIVIL
 STATE OF CALIFORNIA

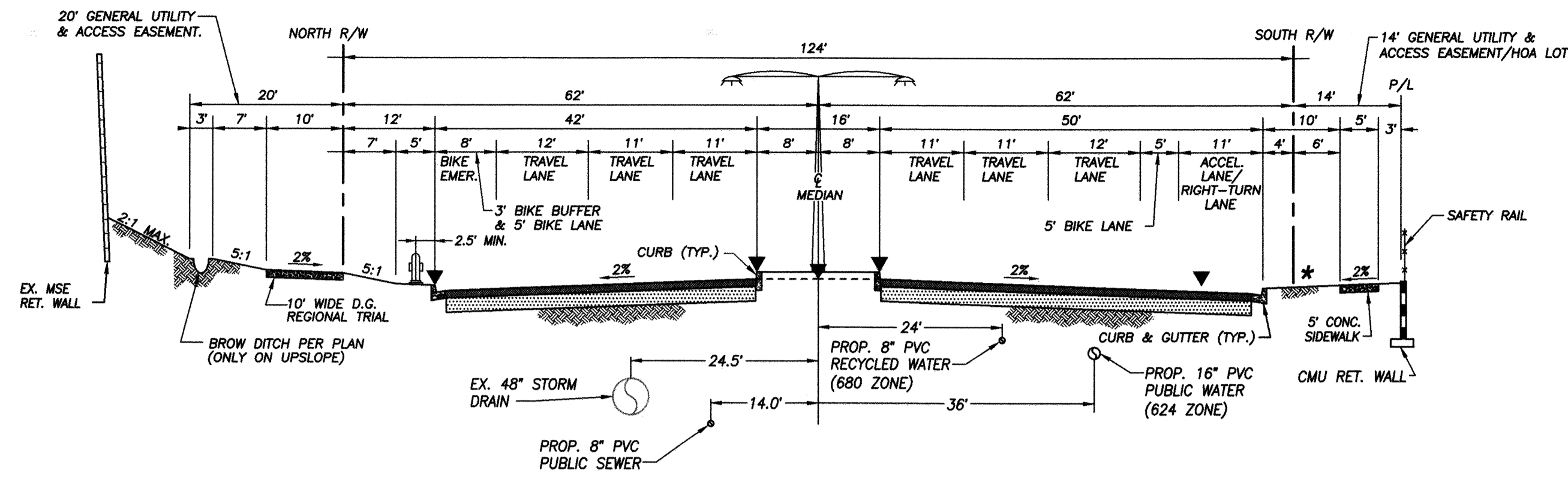
PLANNING 9707 Waples Street
 ENGINEERING San Diego, Ca. 92121
 SURVEYING PH: (619) 558-4500 FX: (619) 558-1414

UTILITY NOTE		CITY "AS-BUILT"		O.W.D. "AS-BUILT"		OTAY WATER DISTRICT		BENCHMARK 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.		(SIGNATURE) ALISA S. VIALPANDO P.E. NO.: 47945 (PRINTED NAME)		(SIGNATURE) ALISA S. VIALPANDO P.E. NO.: 47945 (PRINTED NAME)		PROJECT#: D1019-090533 PERMIT#: DEV-22-001 P.Z.: W624 & RW680		SUBTRACT 2.13' FROM THE NAVD 88 ELEVATIONS HEREON TO REACH (NGVD 29) ELEVATIONS.	
MY REGISTRATION EXPIRES: _____ DISCIPLINE: CIVIL		MY REGISTRATION EXPIRES: _____ DISCIPLINE: CIVIL		REVIEWED BY: _____ DATE: _____		NO. OTAY WATER DISTRICT REVISIONS		App'd Date	
CONSTRUCTION RECORD		REFERENCES		DATE		SCALE		Submitted: _____	
Contractor: _____		C.C.V. DWG. 16026		App'd		Horizontal		By: _____	
Inspector: _____		C.C.V. DWG. 14032		Date		Vertical		Approved: _____	
Date Completed: _____		C.C.V. DWG. 21045		Date		N/A		By: _____	
		C.C.V. DWG. 20024		Date				Principal City Engineer	
				DESCRIPTION: BRASS DISK MARKED "SD CITY ENGR." IN 3/4" IRON PIPE, 1.5 MILES EAST OF INTERSECTION OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROMINENT 10' HIGH BOULDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT. #1359 PER R.O.S. 14841) ELEV. 628.319 DATUM: NAVD '88 (NAVD 29)		Designed By		CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT	
				DRAWN BY		Checked By		DRAWING NO.	
				ALISA S. VIALPANDO		Y.C./A.V.		22001_03	
				Date		R.C.E. No.		W.O. No. IP220003	
				11/18/22		47945		O.W.D. D1019-090533 DEV-22-001	

VOID

MAIN STREET EAST OF HERITAGE ROAD
 PUBLIC IMPROVEMENT PLAN

W.O. NO. 2395-0012



6-LANE PRIME ARTERIAL/55 MPH DESIGN SPEED
 TRAFFIC INDEX (TI): 9.5 (5' AC/12" CLASS II BASE)
 STRUCTURAL SECTION PER GEOTECHNICAL REPORT. FINAL SECTION TO BE DETERMINED ON FIELD R-VALUE TESTING.
 NOTE: UTILITY VAULTS WITHIN PARKWAYS SHALL MATCH PROPOSED PARKWAY SLOPE.

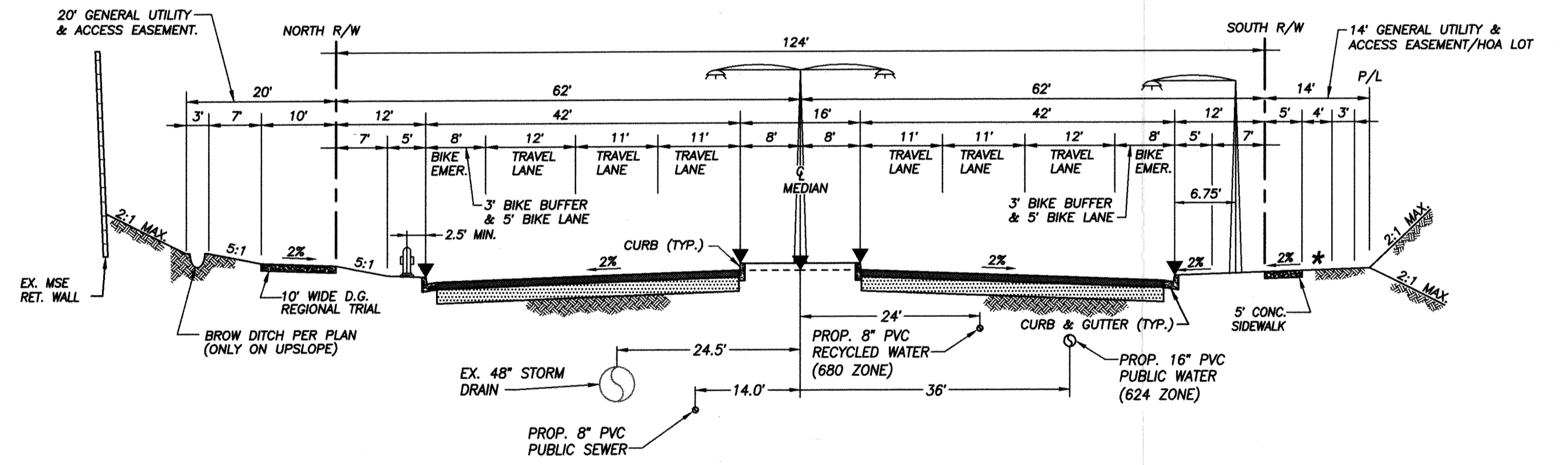
MAIN STREET (STA. 53+13.28 TO STA. 63+88.00)

6-LANE PRIME NOT TO SCALE

OTAY RANCH VILLAGE 3

EXISTING CAMINO CANTERA
 C.C.V. DWGS. 16055

LEGEND:	SYMBOL
MAP LOT NO.	13
NEIGHBORHOOD DESIGNATION	R-13
SHEET NUMBER	11
SUBDIVISION BOUNDARY	---
LOT LINE	---
SEWER MAIN	S
WATER MAIN	W
FIRE MAIN	F
RECYCLED WATER MAIN	RW
FIRE HYDRANT	⊕
EX. STORM DRAIN	---
STREET LIGHT	⊙
TRAFFIC SIGNAL	⊕
DIRECTION OF FLOW	→
SURVEY MONUMENT	⊕



6-LANE PRIME ARTERIAL/55 MPH DESIGN SPEED
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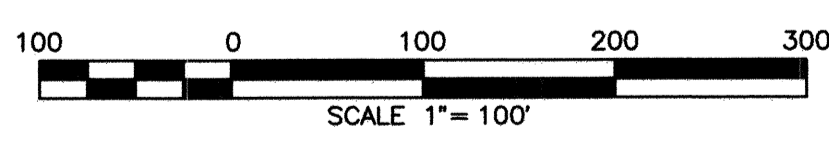
MAIN STREET (FROM HERITAGE RD. TO STA 53+13.28 AND STA 63+88.00 TO STA. 66+50.39)

6-LANE PRIME NOT TO SCALE

HERITAGE ROAD
 C.C.V. DWG. 14032

MAIN STREET
 & 94-107
 C.C.V. DWG. 02025

KEY MAP
 SCALE: 1"=100'



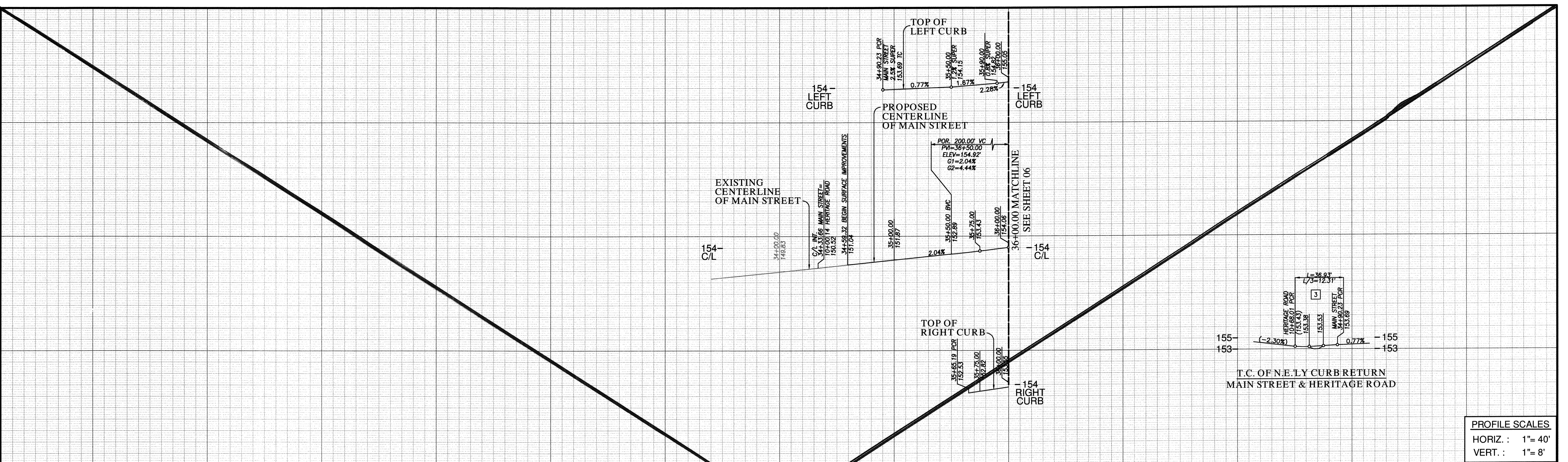
UTILITY NOTE		CITY "AS-BUILT"		O.W.D. "AS-BUILT"		OTAY WATER DISTRICT		BENCHMARK NOTE:		NO. OTAY WATER DISTRICT REVISIONS		CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT	
ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES 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 ALISA S. VIALPANDO P.E. NO.: 47945		(SIGNATURE) DATE ALISA S. VIALPANDO P.E. NO.: 47945		PROJECT#: D1019-090533 PERMIT#: DEV-22-001 P.Z.: W624 & RW680 DESIGNED BY: <i>Alisa S. Vialpando</i> DRAWN BY: <i>Y.C./A.V.</i> CHECKED BY: <i>Y.C./A.V.</i> REVIEWED BY: <i>Alisa S. Vialpando</i> DATE: 02.24.2023		SUBTRACT 2.13' FROM THE NAVD 88 ELEVATIONS SHOWN HEREON TO REACH (INGVD 29) ELEVATIONS.		App'd Date		PLANNING 9707 Waples Street ENGINEERING San Diego, Ca 92121 SURVEYING PH0808558-4500 FX0858558-1414	
CONSTRUCTION RECORD		REFERENCES		DATE		SCALE		Submitted: 4/20/2023		Approved: 4/21/2023		DRAWING NO.	
Contractor: _____		C.C.V. DWG. 16026		Date		Horizontal		By: _____		By: _____		22001-03	
Inspector: _____		C.C.V. DWG. 14032		Date		Vertical		Planning: _____		Principal Civil Engineer		CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT	
Date Completed: _____		C.C.V. DWG. 21045		Date		N/A		Landscape: _____		Principal Civil Engineer		MAIN STREET (EAST OF HERITAGE ROAD) CHULA VISTA TRACT NO. 16-02	
C.C.V. DWG. 20024		C.C.V. DWG. 20024		Date		DESCRIPTION: BRASS DISK MARKED "SD CITY ENGR." IN 3/4" IRON PIPE, 1.5 MILES EAST OF INTERSECTION OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERN OF PROMONT 10' HIGH BOULDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT. #1359 PER R.O.S. 14841) ELEV. 628.319 DATUM: NAVD 88 (NAVD 29)		Submitted: 4/20/2023		Approved: 4/21/2023		22001-03	

REPLACEMENT SHEET

O.W.D. D1019-090533
 DEV-22-001

MAIN STREET EAST OF HERITAGE ROAD
 PUBLIC IMPROVEMENT PLAN
 V.O. NO. 2395-0012

MAIN STREET EAST OF HERITAGE ROAD
PUBLIC IMPROVEMENT PLAN



PROFILE SCALES
HORIZ. : 1" = 40'
VERT. : 1" = 8'

FOR EXISTING STORM DRAIN
INFO SEE C.C.V. 16026

SEE SHEET 19 FOR CURB
RETURN DETAILS

FOR EXISTING UTILITIES IN
INTERSECTION SEE
C.C.V. DWG. 14032 &
O.W.D. #D0954-090246

SEE SHEET 05 FOR
UTILITY PROFILES

CENTERLINE DATA

BEARING/Delta	RADIUS	LENGTH	REMARKS
1 N 89°09'09" W		75.53'	

CURB DATA

BEARING/Delta	RADIUS	LENGTH	REMARKS
1 N 89°09'09" W	109.77'	6" TYPE 'G' C&G*	
2 N 89°09'09" W	36.93'	6" TYPE 'G' C&G*	
3 70°31'30"	30.00'	6" TYPE 'G' C&G/**	
4 N 11°37'38" W	13.91'	6" AC BERM	
5 104°05'44"	75.00'	6" AC BERM	

*GLITTER TO MATCH STREET SUPERELEVATION
**SEE CURB RETURN DETAIL SHEET 19

WATER DATA

BEARING/Delta	RADIUS	LENGTH	REMARKS
1 N 89°09'09" W		39.81'	16" CMLCSP 624PZ

RECYCLED WATER DATA

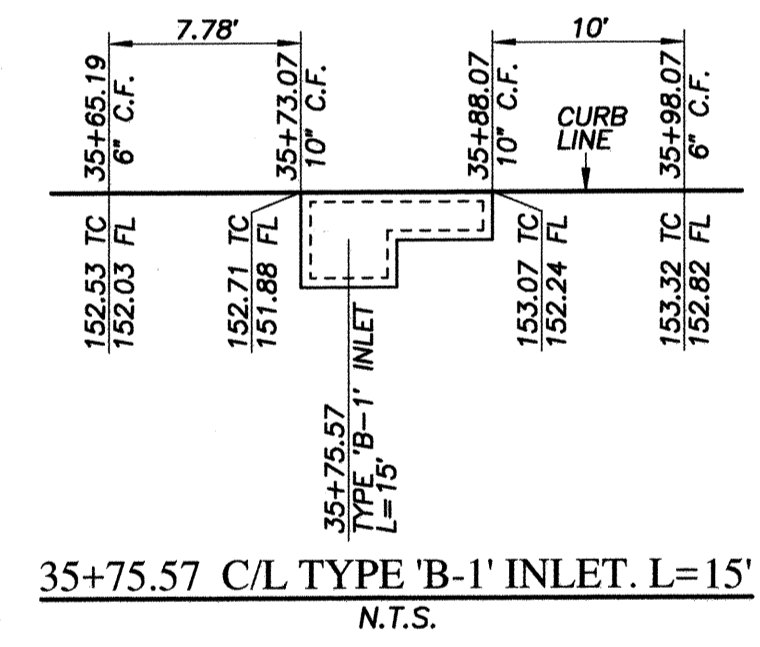
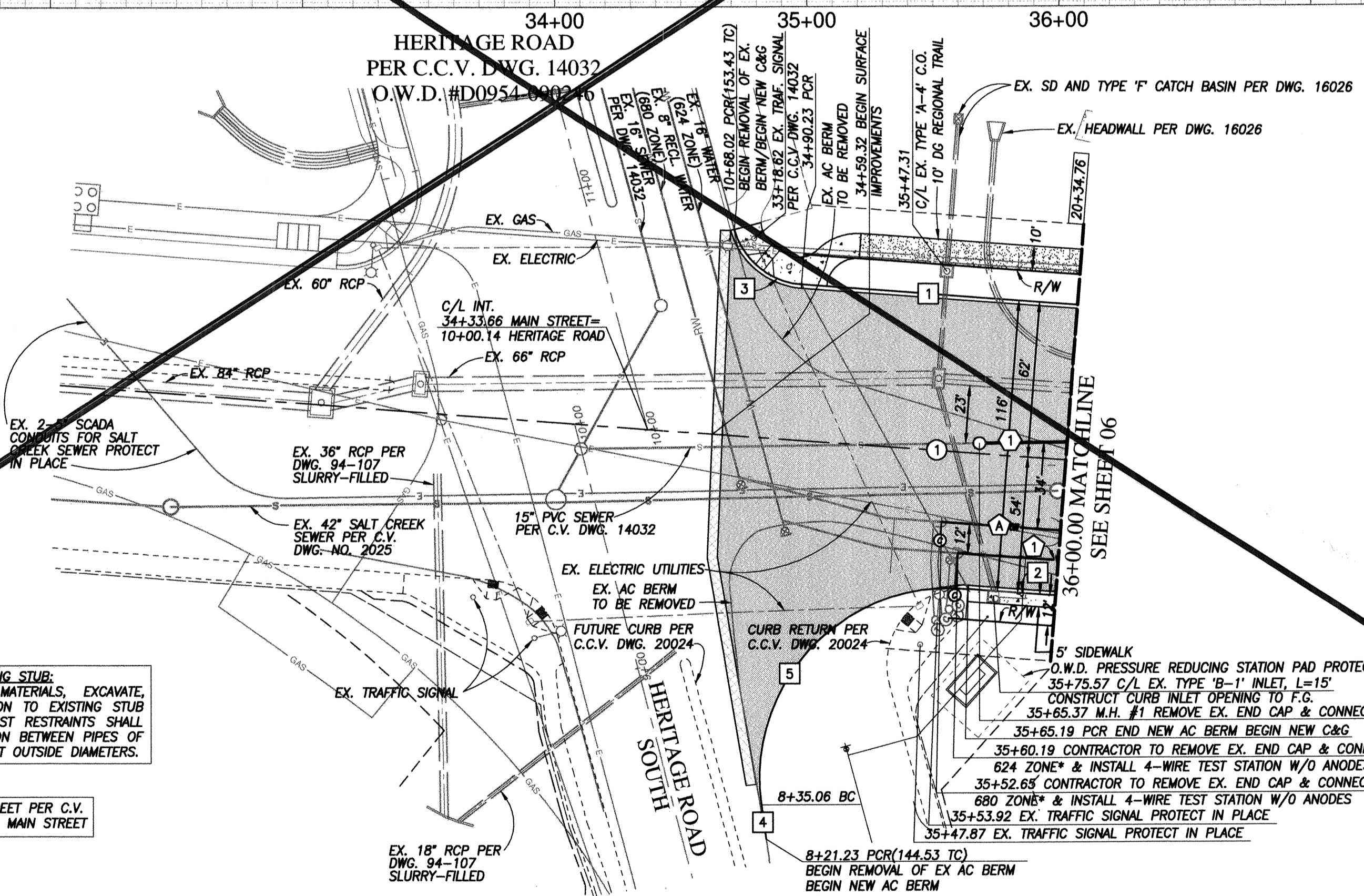
BEARING/Delta	RADIUS	LENGTH	REMARKS
A N 89°09'09" W		47.35'	8" CMLCSP 680PZ

SEWER DATA

BEARING/Delta	RADIUS	LENGTH	REMARKS
1 N 85°52'32" E		34.76'	8" PVC SDR-26

* CONNECTION NOTE - TO AN EXISTING STUB:
CONTRACTOR TO PROVIDE ALL MATERIALS, EXCAVATE,
REMOVE ENDCAP, MAKE CONNECTION TO EXISTING STUB
AND BACKFILL. APPROPRIATE THRUST RESTRAINTS SHALL
BE INSTALLED ON EACH CONNECTION BETWEEN PIPES OF
DIFFERENT MATERIALS, OR DIFFERENT OUTSIDE DIAMETERS.

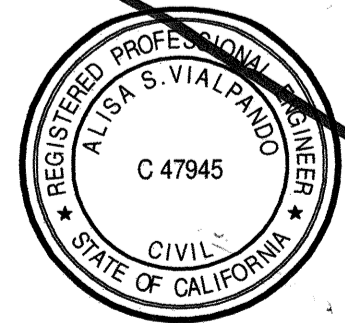
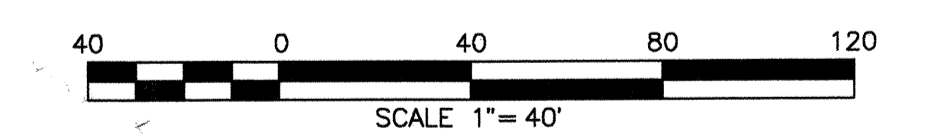
STA 134+33.73 MAIN STREET PER C.V.
DWG. 20024 = 34+33.66 MAIN STREET



MAIN STREET & HERITAGE ROAD INTERSECTION

35+24.47 TO 36+00.00

APPROVED FOR SEWER ONLY
Approved: 11/21/2022
By: [Signature]
Principal City Engineer



HUNSAKER & ASSOCIATES
SAN DIEGO, INC.
PLANNING 9707 Waples Street
ENGINEERING San Diego, Ca. 92121
SURVEYING PH6585558-4500 FX(658)558-1414

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 ALISA S. VIALPANDO P.E. NO.: 47945	(SIGNATURE) DATE ALISA S. VIALPANDO P.E. NO.: 47945	PROJECT#: D10119-090533 PERMIT#: DEV-22-001 P.Z.: W624 & RW680 REVIEWED BY: DATE:
CONSTRUCTION RECORD	REFERENCES	DISCIPLINE	DATUM
Contractor: C.C.V. DWG. 16026	BY: REVISIONS Date App'd	MY REGISTRATION EXPIRES: DISCIPLINE CIVIL	DESCRIPTION: BRASS DISK MARKED "SD CITY ENGR." IN 1/4" IRON PIPE 1.5 MILES EAST OF INTERSECTION OF MAIN ST & HERITAGE RD. ON ROCK MOUNTAIN 100' SOUTHERLY OF PROMINENT TO HIGH BOULDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT. #1359 PER R.O.S. 18441) ELEV. 628.319 DATUM: NAVD '88 INVD '28'
Inspector: C.C.V. DWG. 14032			SCALE Horizontal 1"=40' Vertical 1"=8'
Date Completed: C.C.V. DWG. 21045			Designed By: <u>[Signature]</u> Drawn By: <u>[Signature]</u> Checked By: <u>[Signature]</u> D.L./G.D./Y.C./A.V. Plans Prepared Under Supervision Of ALISA S. VIALPANDO Date: <u>11/21/22</u> R.C.E. No. 47945
			Submitted: _____ Approved: _____ By: _____ By: _____ Principal Civil Engineer
			CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT PUBLIC IMPROVEMENT PLANS FOR: MAIN STREET (EAST OF HERITAGE ROAD) CHULA VISTA TRACT NO. 16-02

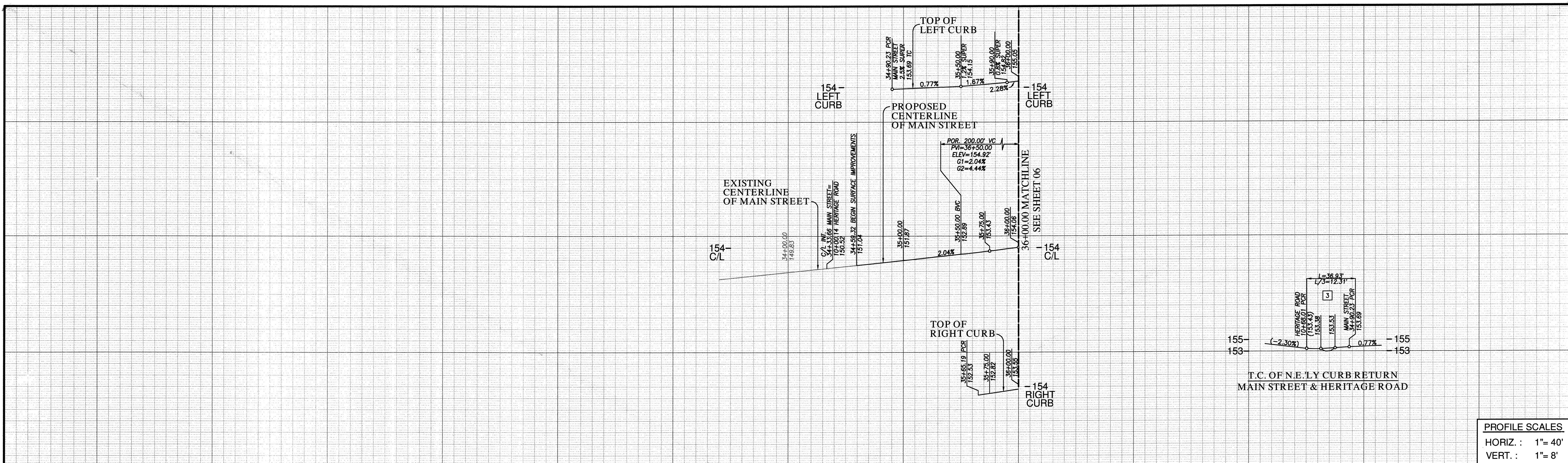
VOID

O.W.D. D10119-090533
DEV-22-001

R:\1327\Eng\Improvement Plans\Main Street Imp\1327P04.dwg\Nov-17-2022:18:06

W.O. NO. 2395-0012

DRAWING NO. **22001-04**
W.O. No. IP220003



PROFILE SCALES
 HORIZ. : 1"= 40'
 VERT. : 1"= 8'

CENTERLINE DATA

BEARING/Delta	RADIUS	LENGTH	REMARKS
1 N 89°09'09" W		75.53'	

CURB DATA

BEARING/Delta	RADIUS	LENGTH	REMARKS
1 N 89°09'09" W	109.77'	6" TYPE 'G' C&G*	
2 N 89°09'09" W	36.93'	6" TYPE 'G' C&G	
3 70°31'30"	30.00'	6" TYPE 'G' C&G/**	
4 N 11°37'38" W	13.91'	6" AC BERM	
5 104°05'44"	75.00'	6" AC BERM	

*CUTTER TO MATCH STREET SUPERELEVATION
 **SEE CURB RETURN DETAIL SHEET 19

WATER DATA

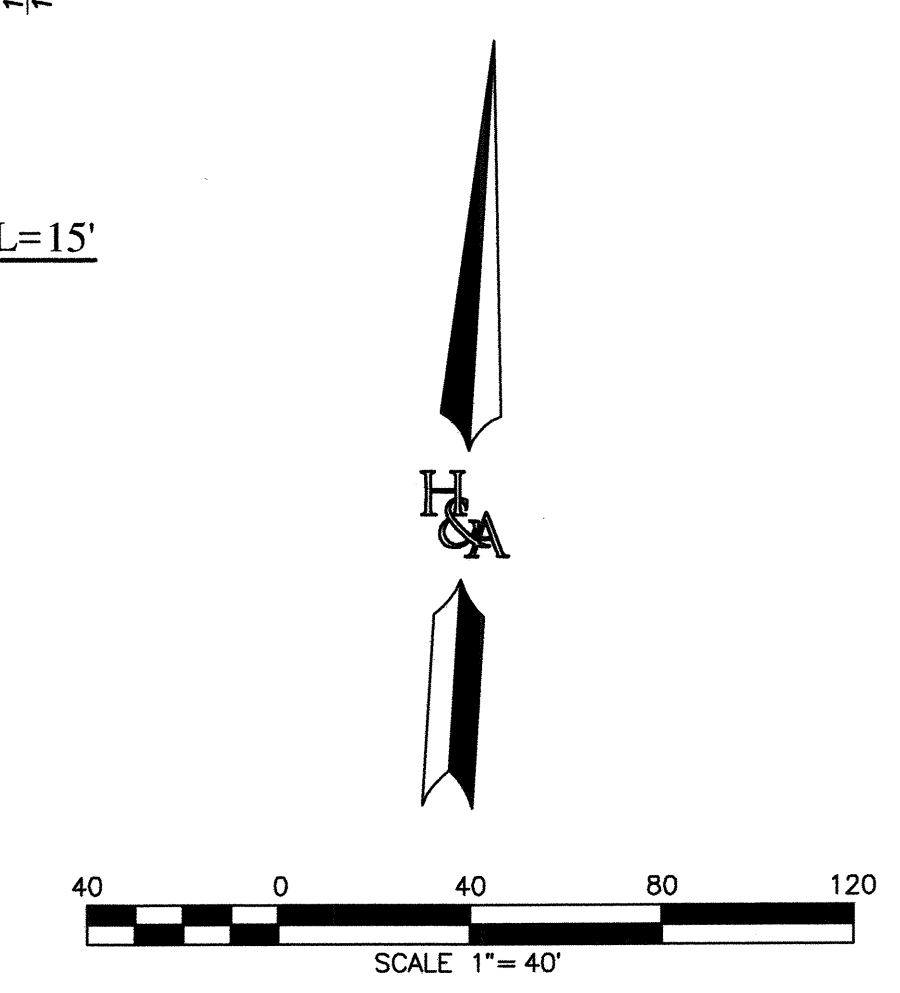
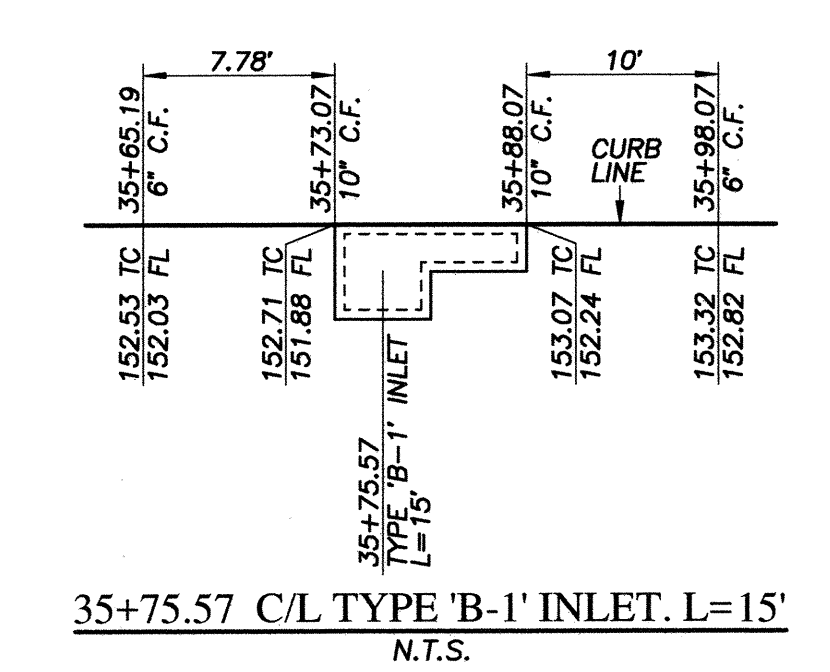
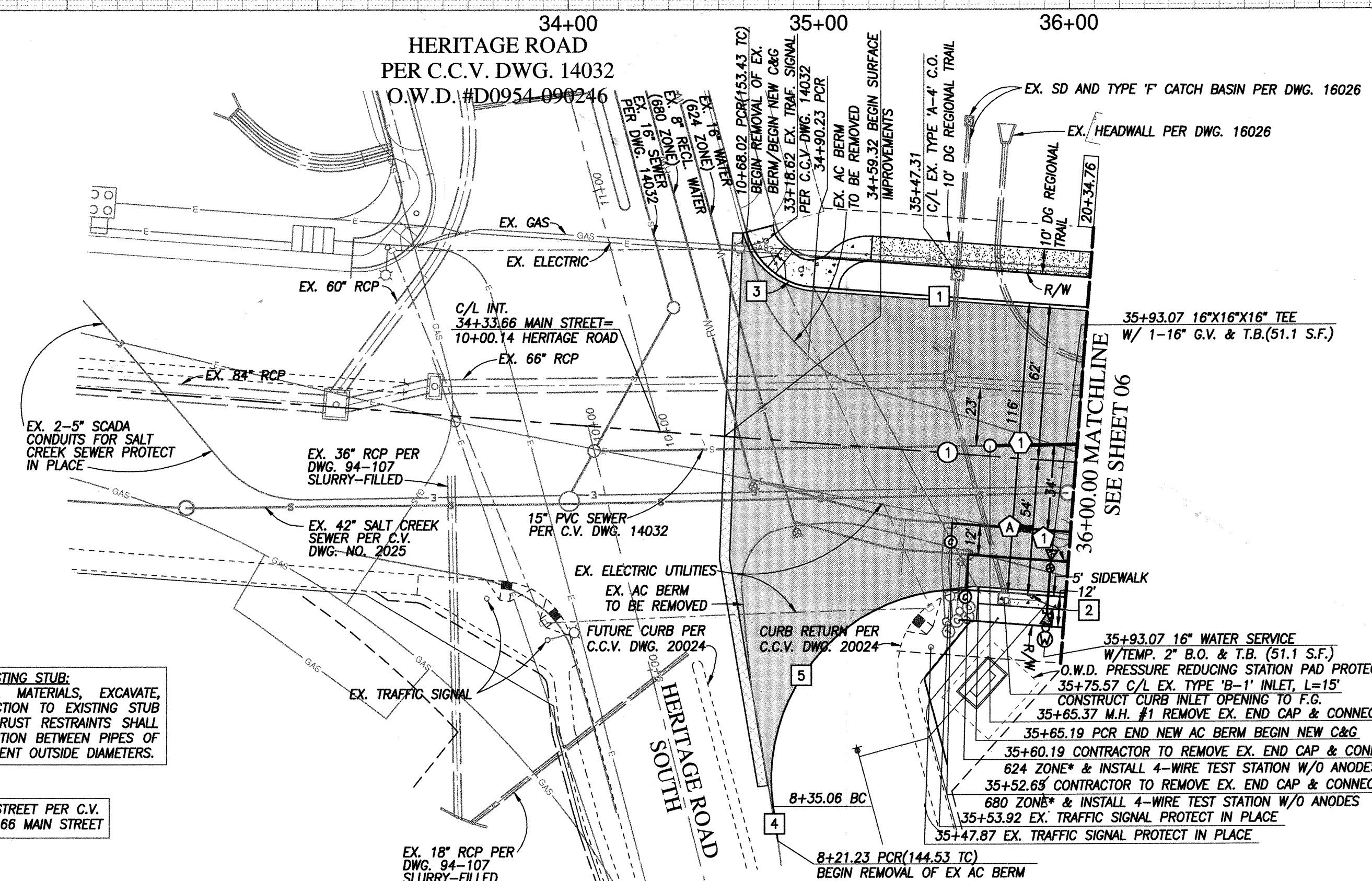
BEARING/Delta	RADIUS	LENGTH	REMARKS
1 N 89°09'09" W		39.81'	16" CMLCSP 624PZ

RECYCLED WATER DATA

BEARING/Delta	RADIUS	LENGTH	REMARKS
A N 89°09'09" W		47.35'	8" CMLCSP 680PZ

SEWER DATA

BEARING/Delta	RADIUS	LENGTH	REMARKS
1 N 85°52'32" E		34.76'	8" PVC SDR-26



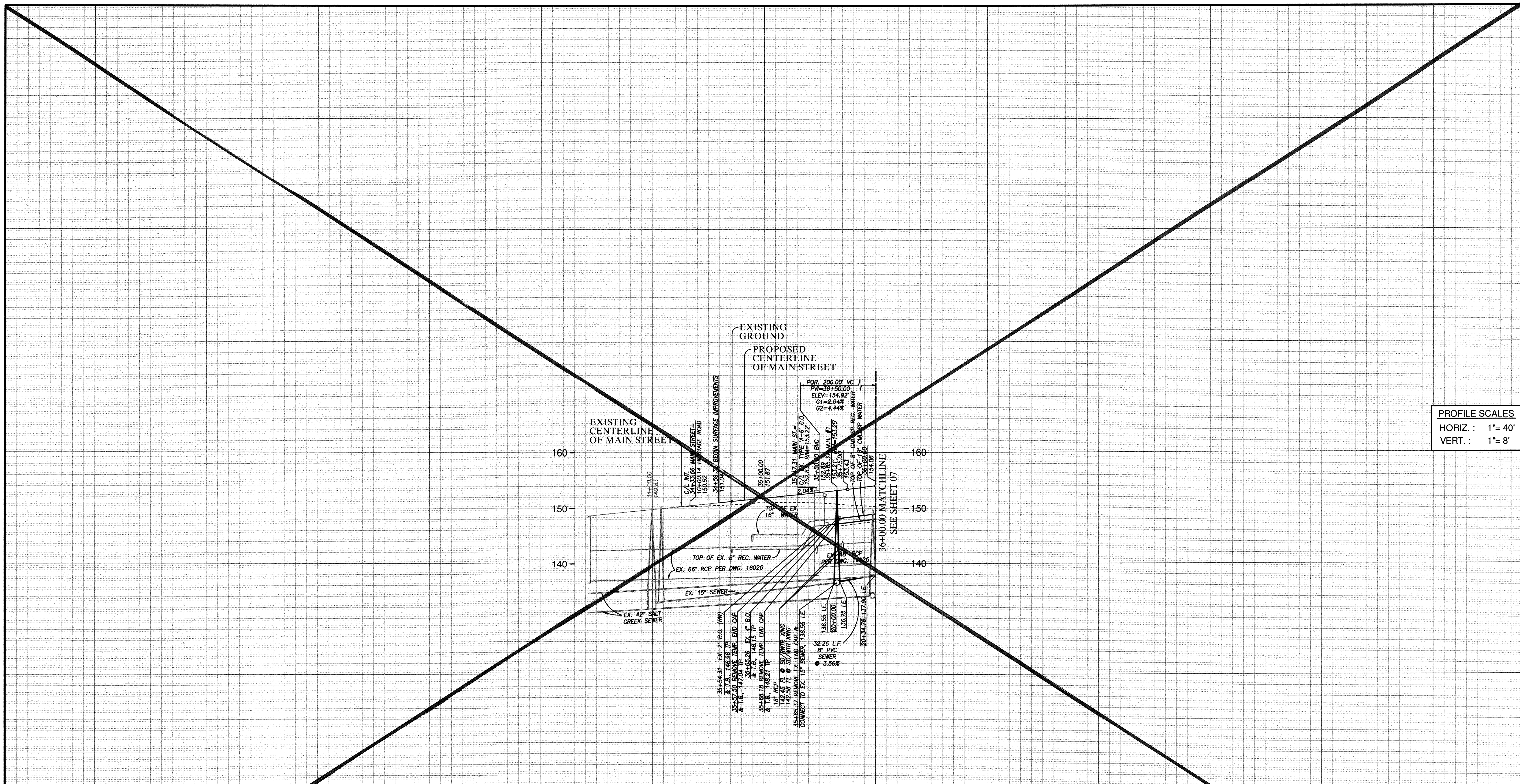
* CONNECTION NOTE - TO AN EXISTING STUB:
 CONTRACTOR TO PROVIDE ALL MATERIALS, EXCAVATE, REMOVE ENDCAP, MAKE CONNECTION TO EXISTING STUB AND BACKFILL. APPROPRIATE THRUST RESTRAINTS SHALL BE INSTALLED ON EACH CONNECTION BETWEEN PIPES OF DIFFERENT MATERIALS, OR DIFFERENT OUTSIDE DIAMETERS.

STA 134+33.73 MAIN STREET PER C.V. DWG. 20024 = 34+33.66 MAIN STREET

MAIN STREET & HERITAGE ROAD INTERSECTION

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 ALISA S. VIALPANDO P.E. NO.: 47945		(SIGNATURE) DATE ALISA S. VIALPANDO P.E. NO.: 47945		PROJECT# D1019-090533 PERMIT#: DEV-22-001 P.Z.: W624 & RW680 REVIEWED BY: <i>Alisa S. Vialpando</i> DATE: 02.24.2023	
CONSTRUCTION RECORD		REFERENCES		BY		DATE	
Contractor: _____		C.C.V. DWG. 16026		BY _____		DATE: 1/20/2023	
Inspector: _____		C.C.V. DWG. 14032		BY _____		DATE: 4/21/2023	
Date Completed: _____		C.C.V. DWG. 21045		BY _____		DATE: 2/1/23	
		C.C.V. DWG. 20024		BY _____		DATE: 4/21/2023	
DESCRIPTION: BRASS DISK MARKED "SD CITY ENGR." IN 3/4" IRON PIPE, 1.2 MILES EAST OF INTERSECTION OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN TRAIL, EASTERLY OF PROMINENT 10' HIGH BOULDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT. #1359 PER B.O.S. 1484) ELEV. 628.319 DATUM: NAVD '88 (NAVD '28)		SCALE		Designed By		Drawn By	
		Horizontal 1"=40'		ALISA S. VIALPANDO		D.L.G.D.	
		Vertical 1"=8'		Plans Prepared Under Supervision Of		Checked By	
				ALISA S. VIALPANDO		Y.C./A.V.	
				Date 2/1/23		Submitted: 1/20/2023	
				R.C.E. No. 47945		By: <i>Alisa S. Vialpando</i>	
						Approved: 4/21/2023	
						By: <i>Alisa S. Vialpando</i>	
						Principal Civil Engineer	
						CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT	
						DRAWING NO. 22001-04	
						W.O. No. IP220003	

REPLACEMENT SHEET



PROFILE SCALES
HORIZ. : 1"= 40'
VERT. : 1"= 8'

MAIN STREET & HERITAGE ROAD INTERSECTION PUBLIC UTILITY PROFILE

35+24.4 TO 36+00.00

FOR EXISTING STORM DRAIN
INFO SEE C.C.V. 16026

APPROVED FOR SEWER ONLY
Approved: 11/21/2022
By: *[Signature]*
Principal City Engineer



HUNSAKER & ASSOCIATES
SAN DIEGO, INC.
PLANNING 5707 Waples Street
ENGINEERING San Diego, Ca. 92121
SURVEYING 446585558-4500 FAX 619-558-1414

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 ALISA S. VIALPANDO P.E. NO.: 47945	(SIGNATURE) DATE ALISA S. VIALPANDO P.E. NO.: 47945	PROJECT#: D1019-090533 PERMIT#: DEV-22-001 P.Z.: W624 & RW680
CONSTRUCTION RECORD	MY REGISTRATION EXPIRES: DISCIPLINE CIVIL	MY REGISTRATION EXPIRES: DISCIPLINE CIVIL	REVIEWED BY: DATE:
REFERENCES C.C.V. DWG. 16026 C.C.V. DWG. 14032 C.C.V. DWG. 21045 C.C.V. DWG. 20024	REVISIONS	DATUM	Designed By: <i>[Signature]</i> Drawn By: D.L./G.D. Checked By: Y.C./A.V.
DESCRIPTION: BRASS DISK MARKED "SD CITY ENGR." IN 3/4" IRON PIPE, 1.5 MILES EAST OF INTERSECTION OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROMINENT 10' HIGH BOULDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT. #1359 PER R.O.S. 14841) ELEV. 628.319 DATUM: NAD 88 (NAD 29)	SCALE Horizontal 1"=40' Vertical 1"=8'	PLANNING <i>[Signature]</i> ALISA S. VIALPANDO	Submitted: _____ By: _____ Principal Civil Engineer Planning: _____ Landscape: _____

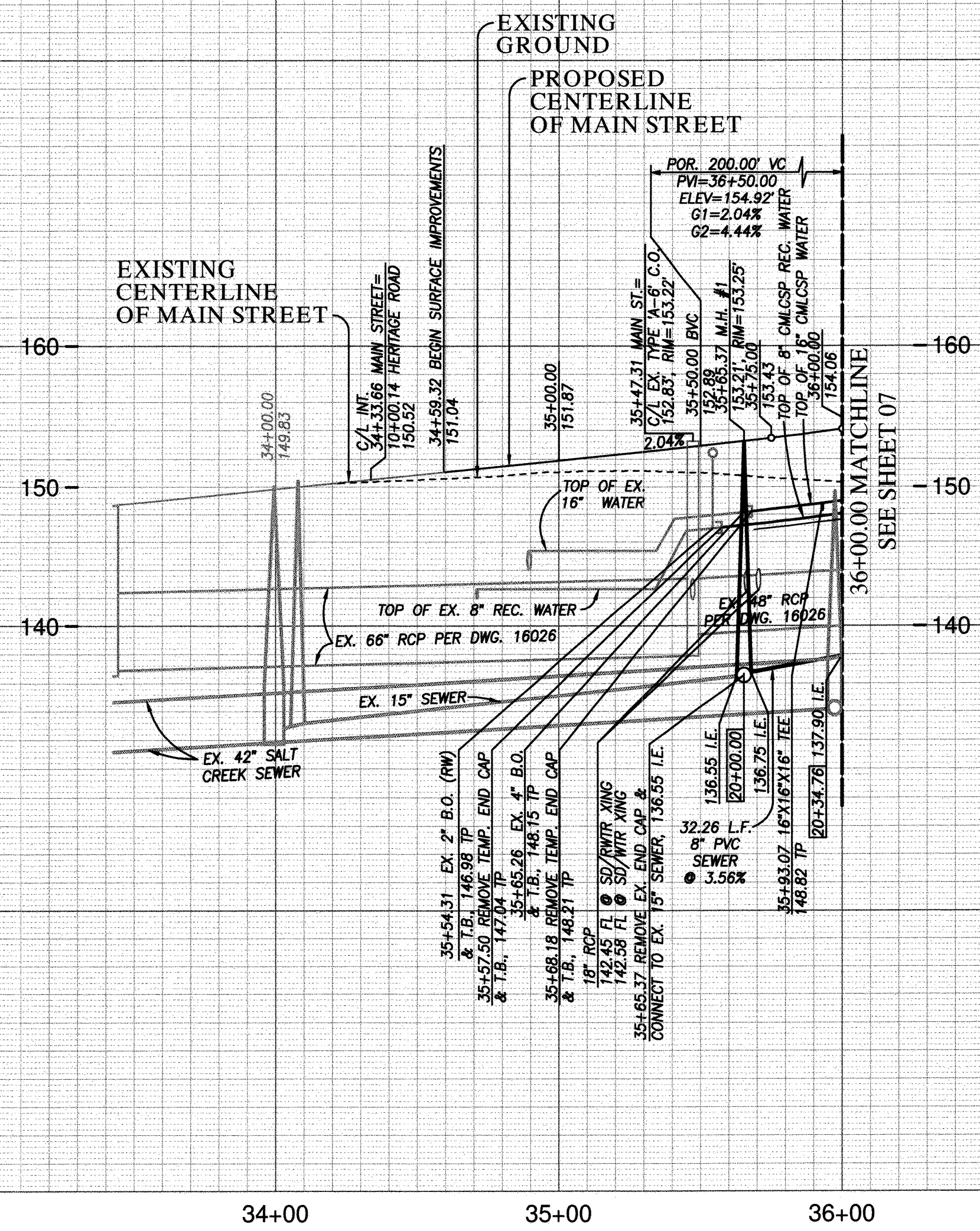
NO.	OTAY WATER DISTRICT REVISIONS	App'd	Date

CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT
PUBLIC IMPROVEMENT PLANS FOR:
MAIN STREET (EAST OF HERITAGE ROAD)
CHULA VISTA TRACT NO. 16-02

DRAWING NO. **22001-05**
W.O. No. IP220003

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VOID



PROFILE SCALES	
HORIZ. :	1" = 40'
VERT. :	1" = 8'

MAIN STREET & HERITAGE ROAD INTERSECTION PUBLIC UTILITY PROFILE

35+24.4 TO 36+00.00

FOR EXISTING STORM DRAIN
INFO SEE C.C.V. 16026

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 _____ ALISA S. VIALPANDO P.E. NO.: 47945 (PRINTED NAME) MY REGISTRATION EXPIRES: _____ DISCIPLINE CIVIL		O.W.D. "AS-BUILT" (SIGNATURE) _____ DATE _____ ALISA S. VIALPANDO P.E. NO.: 47945 (PRINTED NAME) MY REGISTRATION EXPIRES: _____ DISCIPLINE CIVIL		OTAY WATER DISTRICT PROJECT#: D1019-090533 PERMIT#: DEV-22-001 P.Z.: W624 & RW680 Reviewed By: <i>Alisa S. Vialpando</i> DATE: 02.24.2023		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>NO.</th> <th>OTAY WATER DISTRICT REVISIONS</th> <th>App'd</th> <th>Date</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>		NO.	OTAY WATER DISTRICT REVISIONS	App'd	Date								
		NO.	OTAY WATER DISTRICT REVISIONS	App'd	Date																
CONSTRUCTION RECORD Contractor: _____ Inspector: _____ Date Completed: _____		REFERENCES C.C.V. DWG. 16026 C.C.V. DWG. 14032 C.C.V. DWG. 21045 C.C.V. DWG. 20024		REVISIONS BY _____ DATE _____ REVISIONS _____		DATUM DESCRIPTION: BRASS DISK MARKED "SD CITY ENGR." IN 3/4" IRON PIPE, 1.5 MILES EAST OF INTERSECTION OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN TOE EASTERLY OF PROMINENT 10' HIGH BOLDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT. #1359 PER R.O.S. 14841) ELEV. 628.319 DATUM: NAVD '88 (NAVD '28)		SCALE Horizontal 1"=40' Vertical 1"=8' Designed By: <i>Alisa S. Vialpando</i> Drawn By: _____ Checked By: _____ Submitted: 4/20/2023 Approved: 4/21/2023 Principal Civil Engineer													

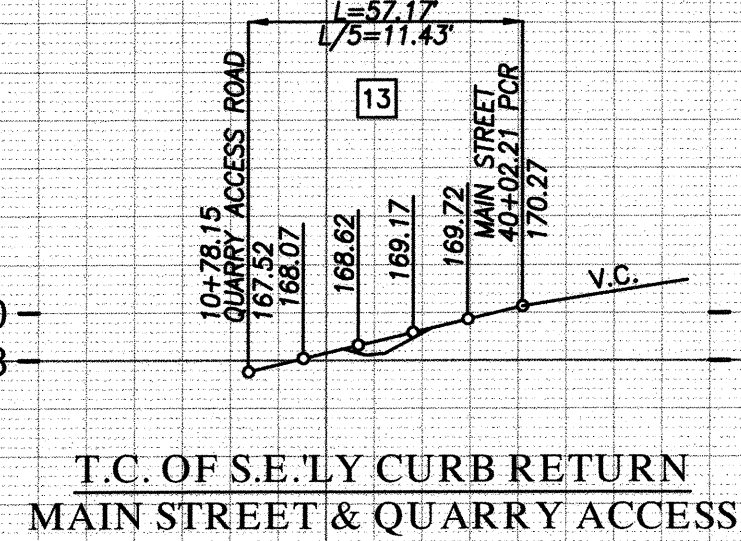
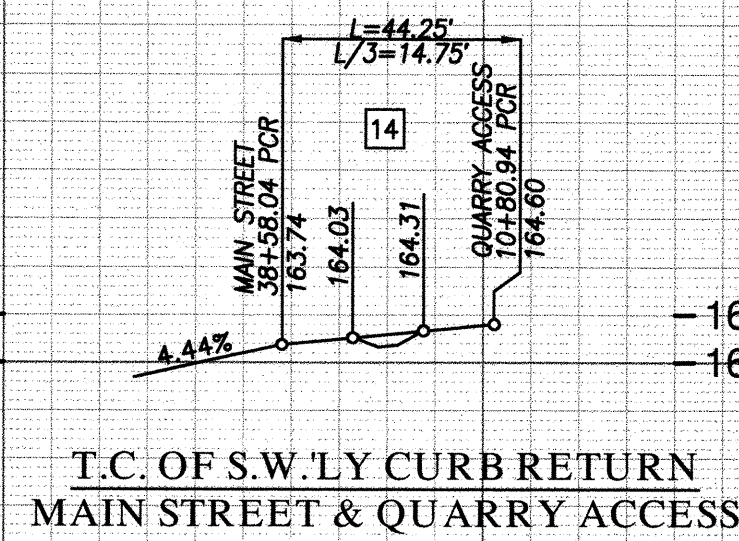
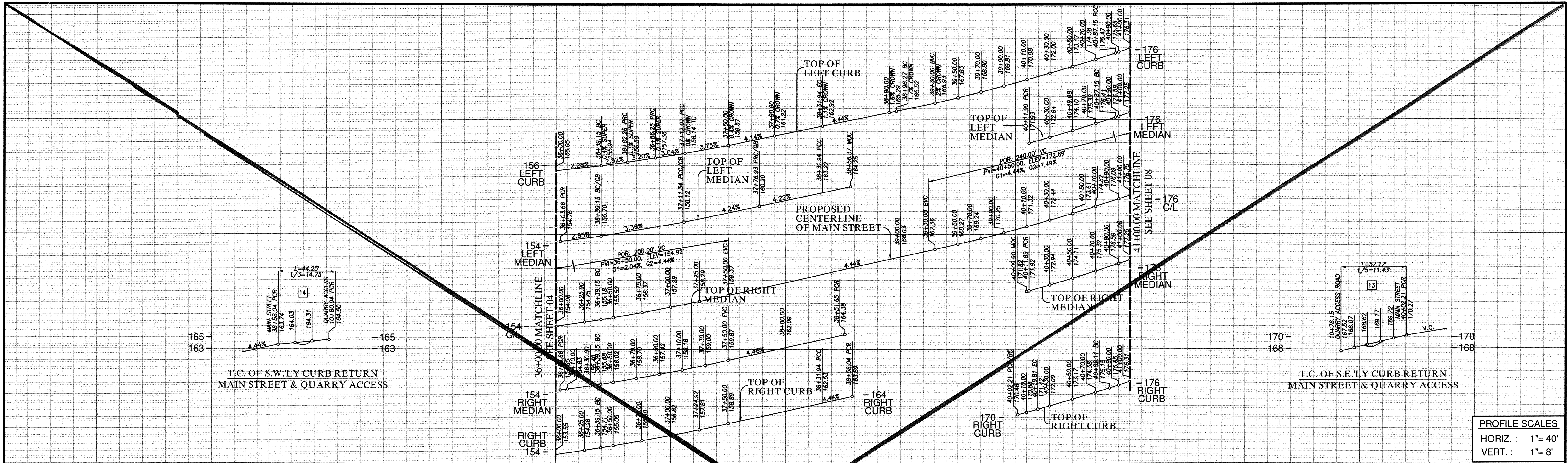
HUNSAKER & ASSOCIATES
SAN DIEGO, INC.

PLANNING 5707 Waples Street
 ENGINEERING San Diego, Ca. 92121
 SURVEYING PH(619)558-4500 FX(619)558-1414

CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT PUBLIC IMPROVEMENT PLANS FOR: MAIN STREET (EAST OF HERITAGE ROAD) CHULA VISTA TRACT NO. 16-02		DRAWING NO. 22001-05 W.O. No. IP220003
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R:\1327&Eng\Improvement Plans\Main Street\1327IP05.dwg|Feb-22-2023:14:25

REPLACEMENT SHEET



PROFILE SCALES
 HORIZ : 1" = 40'
 VERT. : 1" = 8'

CENTERLINE DATA

BEARING/DELTA	RADIUS	LENGTH	REMARKS
N 89°09'09" W		23.94'	
N 89°09'09" W	2000.00'	15.21'	
N 13°12'09" W		460.85'	

CURB DATA

BEARING/DELTA	RADIUS	LENGTH	REMARKS
N 89°09'09" W		39.15'	6" TYPE 'G' C&G*
0°39'43"	1938.00'	22.39'	6" TYPE 'G' C&G*
18°05'47"	75.00'	23.69'	6" TYPE 'G' C&G*
15°42'11"	75.00'	20.56'	6" TYPE 'G' C&G*
3°49'14"	75.00'	5.00'	TRANSITION
3°26'03"	1946.00'	116.64'	6" TYPE 'G' C&G
N 85°19'28" E		62.61'	6" TYPE 'G' C&G
7°18'40"	1458.00'	186.04'	6" TYPE 'G' C&G
0°22'05"	1950.00'	12.53'	6" TYPE 'G' C&G
0°30'45"	2050.00'	18.34'	6" TYPE 'G' C&G
N 78°09'28" E		63.87'	6" TYPE 'G' C&G
0°40'16"	1542.00'	18.06'	6" TYPE 'G' C&G
54°33'35"	60.00'	57.17'	6" TYPE 'G' CURB
84°30'30"	30.00'	44.25'	6" TYPE 'G' C&G
0°59'46"	1542.00'	26.80'	6" TYPE 'G' C&G
6°53'12"	2054.00'	198.00'	6" TYPE 'G' C&G
N 89°09'09" W		39.15'	6" TYPE 'B-1' CURB
180°00'02"	2.00'	6.28'	6" TYPE 'B-1' CURB
N 89°09'09" W		35.49'	6" TYPE 'B-1' CURB
6°05'15"	2012.00'	213.77'	6" TYPE 'B-1' CURB
109°59'59"	5.04'	9.67'	6" TYPE 'B-1' CURB
69°45'10"	26.16'	31.85'	6" TYPE 'B-1' CURB
17°16'23"	185.00'	55.77'	6" TYPE 'B-1' CURB
20°43'41"	185.00'	66.93'	6" TYPE 'B-1' CURB
2°04'05"	2008.00'	72.48'	6" TYPE 'B-1' CURB
N 89°09'09" W		35.49'	6" TYPE 'B-1' CURB
180°00'00"	2.00'	6.28'	6" TYPE 'B-1' CURB
N 78°10'14" E		70.52'	6" TYPE 'B-1' CURB
0°30'45"	2008.00'	17.96'	6" TYPE 'B-1' CURB
0°22'05"	2004.00'	12.88'	6" TYPE 'B-1' CURB
N 78°09'46" E		75.43'	6" TYPE 'B-1' CURB

WATER DATA

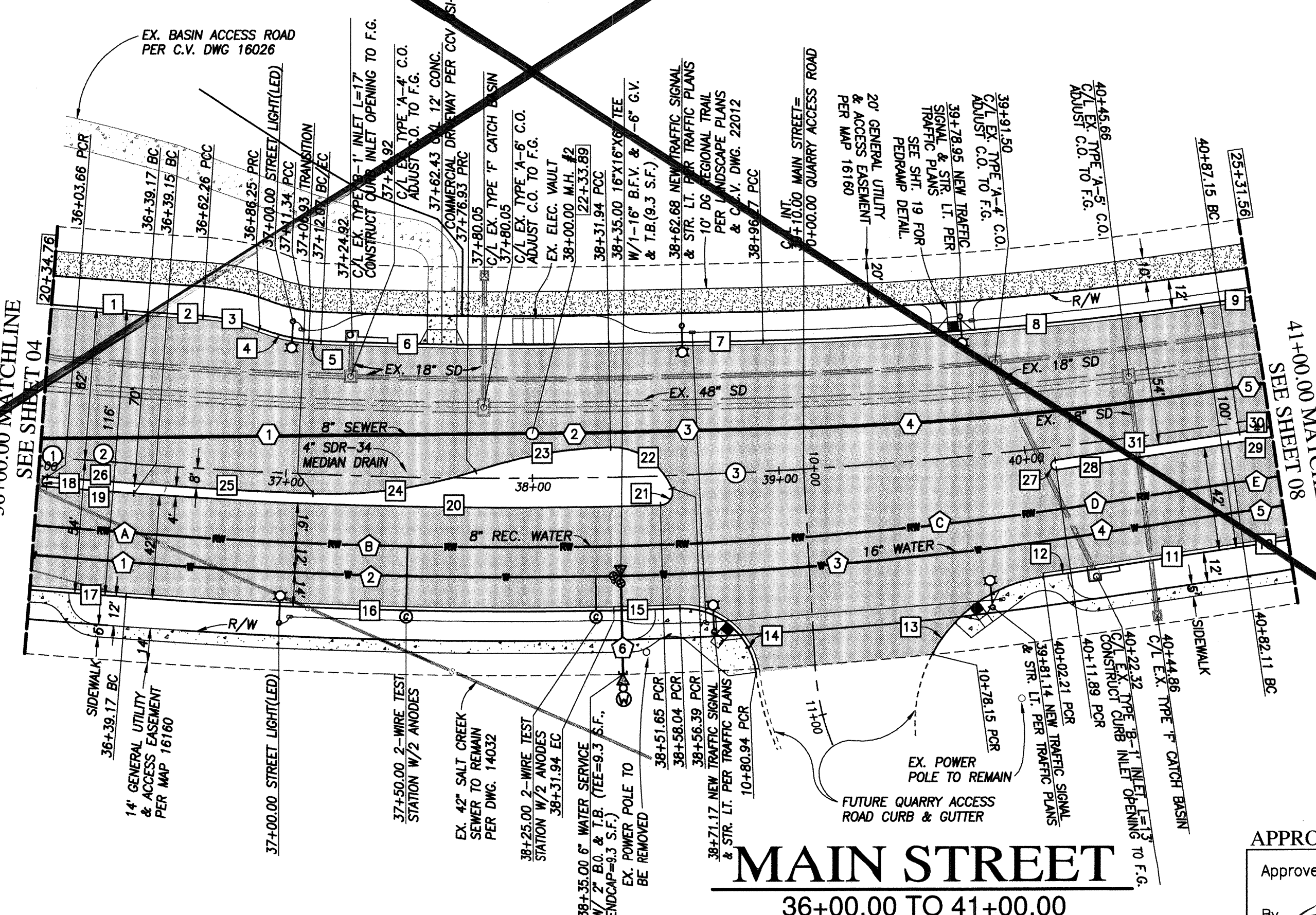
BEARING/DELTA	RADIUS	LENGTH	REMARKS
N 89°09'09" W		39.15'	16" CMLCSP 624PZ
5°31'11"	*2040.00'	196.53'	16" CMLCSP 624PZ
7°10'00"	*1528.00'	191.12'	16" CMLCSP 624PZ
N 78°09'28" E		63.87'	16" CMLCSP 624PZ
0°30'45"	*2036.00'	18.21'	16" CMLCSP 624PZ
N 4°47'06" W		40.00'	6" PVC 624PZ

RECYCLED WATER DATA

BEARING/DELTA	RADIUS	LENGTH	REMARKS
N 89°09'09" W		39.15'	8" CMLCSP 680PZ
5°31'11"	**2028.00'	195.37'	8" CMLCSP 680PZ
7°10'00"	**1516.00'	189.62'	8" CMLCSP 680PZ
N 78°09'28" E		63.87'	8" CMLCSP 680PZ
0°30'45"	**2024.00'	18.11'	8" CMLCSP 680PZ

SEWER DATA

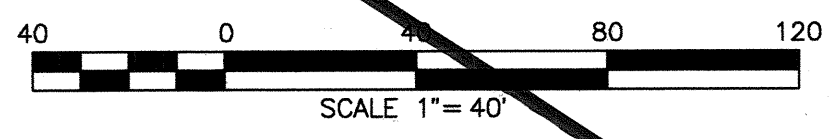
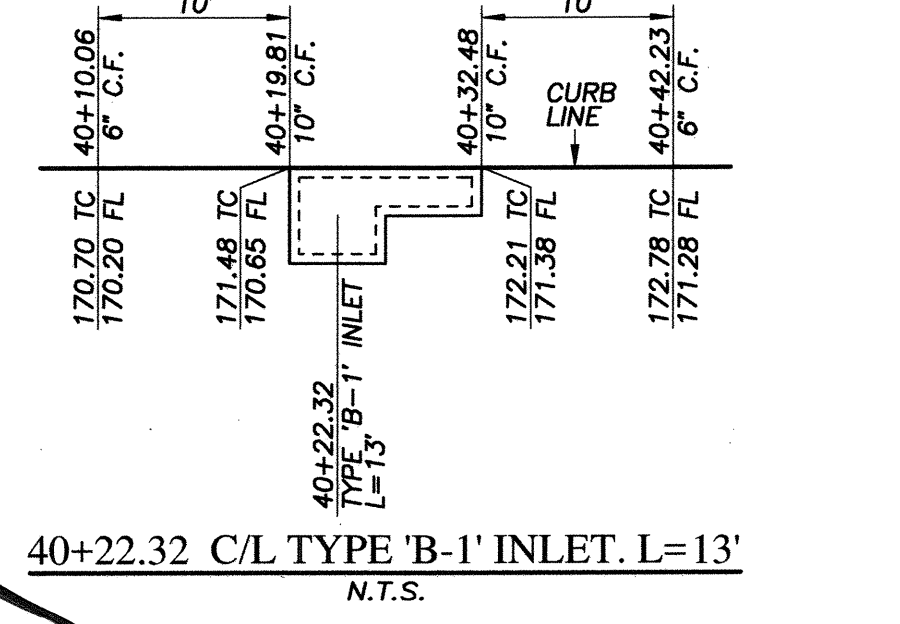
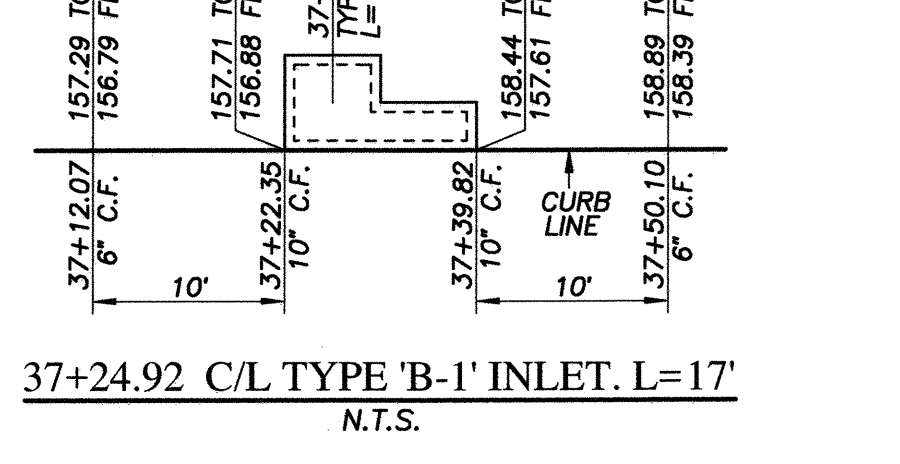
BEARING/DELTA	RADIUS	LENGTH	REMARKS
N 85°52'32" E		199.13'	8" PVC SDR-26
0°50'34"	1982.00'	31.68'	8" PVC SDR-26
N 85°19'28" E		62.61'	8" PVC SDR-26
7°18'40"	1494.00'	190.64'	PVC SDR-26
0°22'05"	1986.00'	12.78'	8" PVC SDR-26



FOR EXISTING STORM DRAIN INFO SEE C.C.V. 16026

SEE SHEET 19 FOR CURB RETURN DETAILS

SEE SHEET 07 FOR UTILITY PROFILES



MAIN STREET
 36+00.00 TO 41+00.00

APPROVED FOR SEWER ONLY
 Approved: 11/21/2022
 By: *Alisa S. Vialpando*
 Principal City Engineer

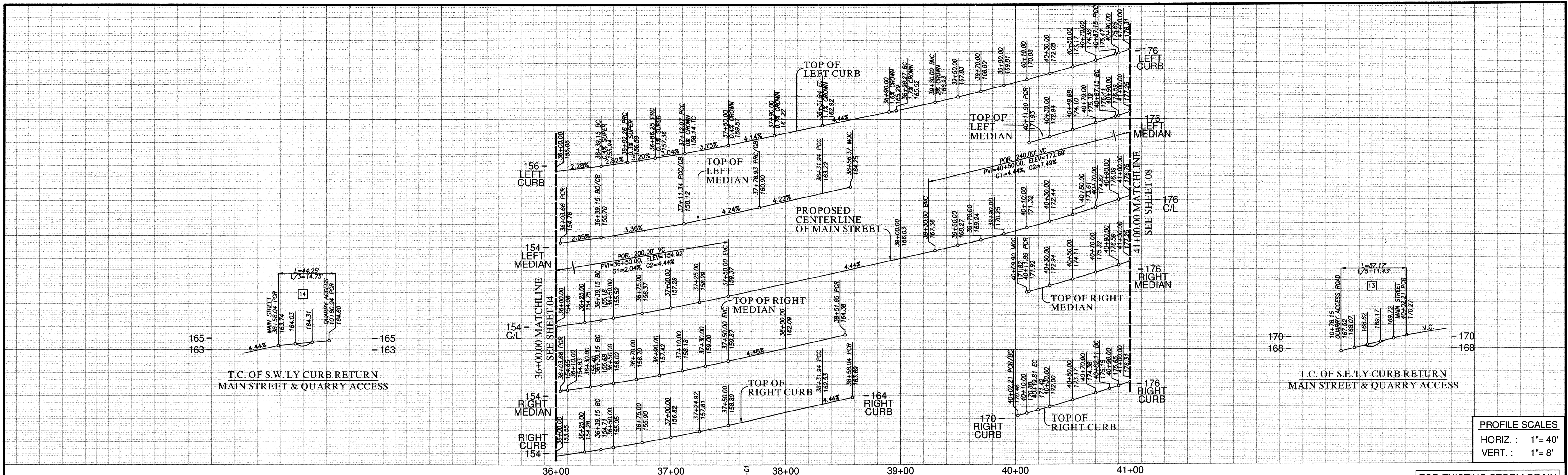
UTILITY NOTE	CITY "AS-BUILT"	O.W.D. "AS-BUILT"	OTAY WATER DISTRICT
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CONSTRUCTION RECORD	REFERENCES	REVISIONS	DATUM
Contractor: C.C.V. DWG. 16026 Inspector: C.C.V. DWG. 14032 Date Completed: C.C.V. DWG. 21045 C.C.V. DWG. 20024	BY: _____ REVISIONS: _____ Date: _____ App'd: _____	DATE: _____ App'd: _____	SCALE: Horizontal 1" = 40' Vertical 1" = 8' Designed By: D.L./G.D. Drawn By: D.L./G.D. Checked By: Y.C./A.V. Submitted: _____ By: _____ Approved: 11/21/2022 Principal City Engineer
DESCRIPTION: BRASS DISK MARKED "SD CITY ENGR." IN 3/4" IRON PIPE, 1.5 MILES EAST OF INTERSECTION OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTLY OF PROMINENT 10' HIGH BOULDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (P. #1359 PER R.O.S. 14841) ELEV. 628.319 DATUM: NAVD 88 INVD. 281			CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT PUBLIC IMPROVEMENT PLANS FOR: MAIN STREET (EAST OF HERITAGE ROAD) CHULA VISTA TRACT NO. 16-02 DRAWING NO. 22001-06 W.G. NO. IP220003

VOID

MAIN STREET EAST OF HERITAGE ROAD PUBLIC IMPROVEMENT PLAN

R11327&Eng\Improvement Plans\Main Street Imp\1327IP06.dwg\Nov-18-2022:13:31

O.W.D. D1019-090533
 DEV-22-001



CENTERLINE DATA

BEARING/DELTA	RADIUS	LENGTH	REMARKS
N 89°09'09" W		23.94'	
N 89°09'09" W		15.21'	
N 13°12'09" W	2000.00'	460.85'	

CURB DATA

BEARING/DELTA	RADIUS	LENGTH	REMARKS
N 89°09'09" W		39.15'	6" TYPE 'G' C&G*
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1°18'05" E	75.00'	23.69'	6" TYPE 'G' C&G*
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3°49'14"	75.00'	5.00'	TRANSITION
3°26'03"	1946.00'	116.64'	6" TYPE 'G' C&G
N 85°19'28" E	62.61'	6" TYPE 'G' C&G	
7°18'40"	1458.00'	186.04'	6" TYPE 'G' C&G
0°22'05"	1950.00'	12.53'	6" TYPE 'G' C&G
0°30'45"	2050.00'	18.34'	6" TYPE 'G' C&G
N 78°09'28" E	63.87'	6" TYPE 'G' C&G	
0°40'16"	1542.00'	18.06'	6" TYPE 'G' C&G
54°35'35"	60.00'	57.17'	6" TYPE 'G' CURB
84°30'30"	30.00'	44.25'	6" TYPE 'G' C&G
0°59'46"	1542.00'	26.80'	6" TYPE 'G' C&G
16°51'23"	2054.00'	198.00'	6" TYPE 'G' C&G
N 89°09'09" W	39.15'	6" TYPE 'G' C&G	
180°00'00"	2.00'	6.28'	6" TYPE 'B-1' CURB
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17°16'23"	185.00'	55.77'	6" TYPE 'B-1' CURB
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2°04'05"	2008.00'	72.48'	6" TYPE 'B-1' CURB
N 89°09'09" W	35.49'	6" TYPE 'B-1' CURB	
180°00'00"	2.00'	6.28'	6" TYPE 'B-1' CURB
N 78°10'14" E	70.52'	6" TYPE 'B-1' CURB	
0°30'45"	2008.00'	17.96'	6" TYPE 'B-1' CURB
0°22'05"	2004.00'	12.88'	6" TYPE 'B-1' CURB
N 78°09'46" E	75.43'	6" TYPE 'B-1' CURB	

*GUTTER TO MATCH STREET SUPERELEVATION

WATER DATA

BEARING/DELTA	RADIUS	LENGTH	REMARKS
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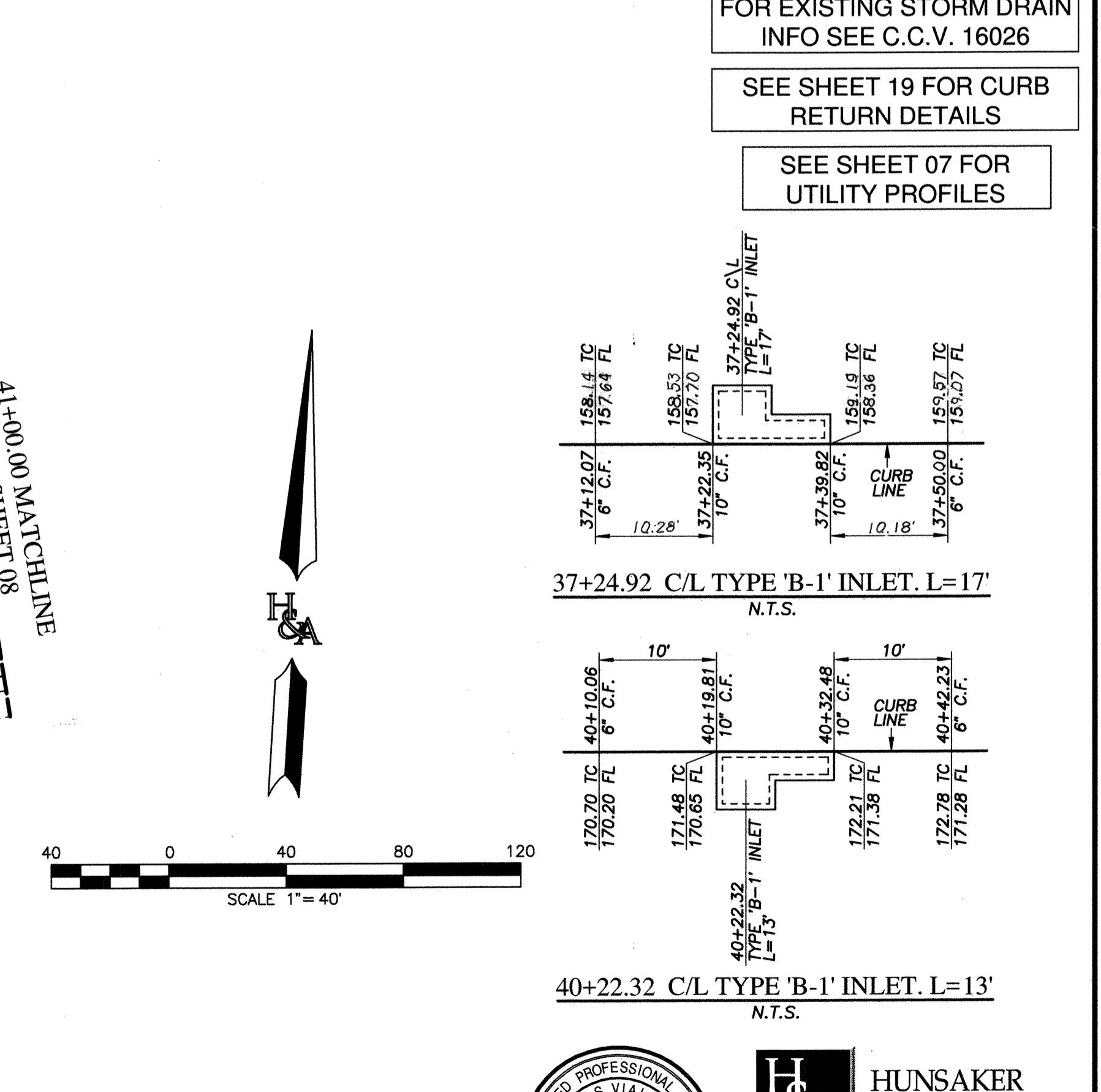
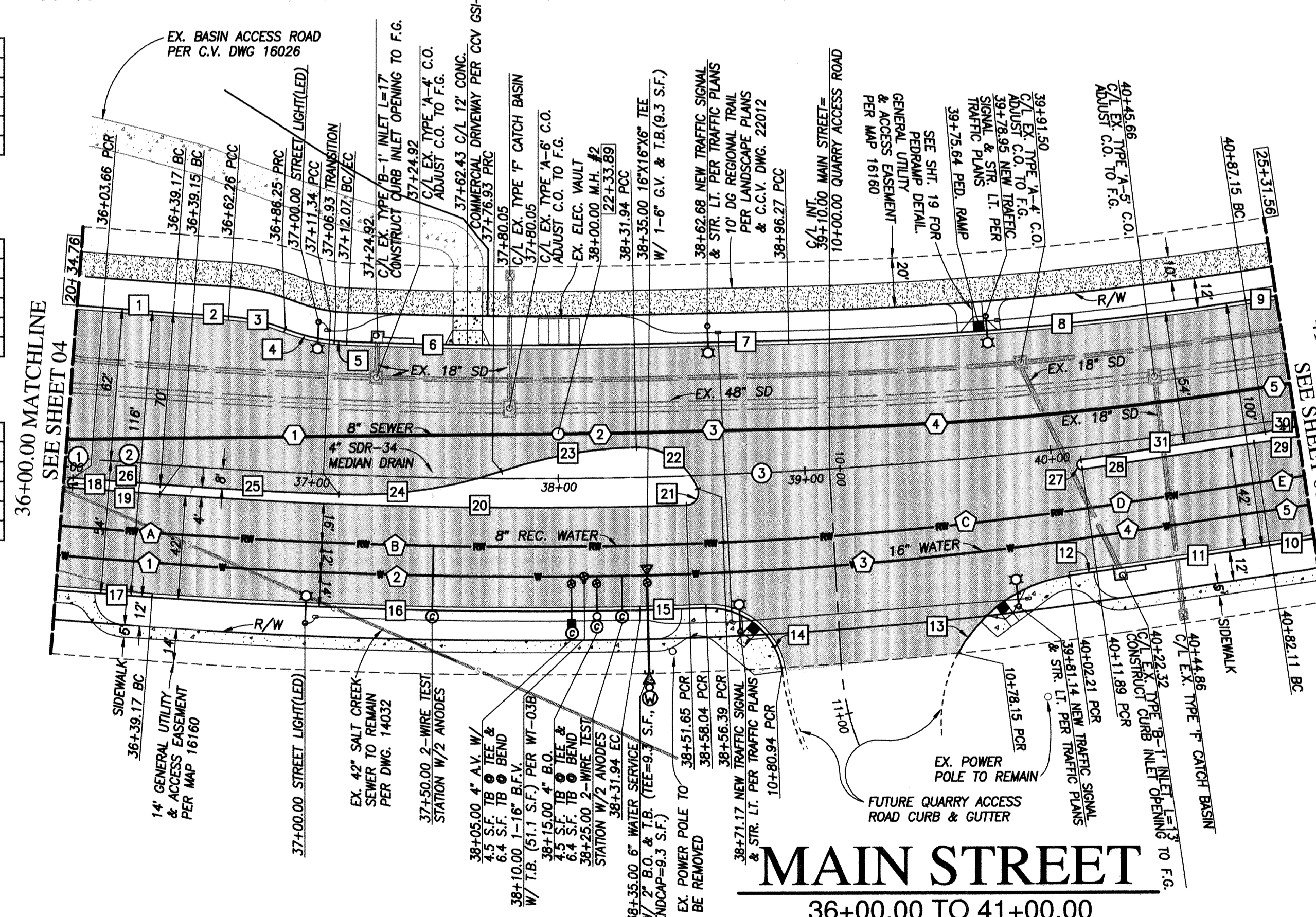
RECYCLED WATER DATA

BEARING/DELTA	RADIUS	LENGTH	REMARKS
N 89°09'09" W		39.15'	8" CMLCSP 680PZ
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7°10'00"	**1516.00'	189.62'	8" CMLCSP 680PZ
N 78°09'28" E		63.87'	8" CMLCSP 680PZ
0°30'45"	**2024.00'	18.11'	8" CMLCSP 680PZ

SEWER DATA

BEARING/DELTA	RADIUS	LENGTH	REMARKS
N 85°52'32" E		199.13'	8" PVC SDR-26
0°50'34"	1882.00'	31.66'	8" PVC SDR-26
N 85°19'28" E		62.61'	8" PVC SDR-26
7°18'40"	1494.00'	190.64'	8" PVC SDR-26
0°22'05"	1986.00'	12.76'	8" PVC SDR-26

NOTE:
 1. SUPPORT BLOCKS ARE REQUIRED FOR ALL TEES, CROSSES, GATE VALVES AND BUTTERFLY GATE VALVES.



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
 ALISA S. VIALPANDO P.E. NO.: 47945

O.W.D. "AS-BUILT"
 (SIGNATURE) DATE
 ALISA S. VIALPANDO P.E. NO.: 47945

OTAY WATER DISTRICT
 PROJECT# D1019-090533
 PERMIT#: DEV-22-001 P.Z.: W624 & RW680
 DRAWN BY: [Signature] DATE: 02.24.2023
 CHECKED BY: [Signature]
 REVISIONS: [Table with columns for NO., OTAY WATER DISTRICT REVISIONS, App'd, Date]

CONSTRUCTION RECORD
 CONTRACTOR: [Blank]
 INSPECTOR: [Blank]
 DATE COMPLETED: [Blank]

REFERENCES
 C.C.V. DWG. 16026
 C.C.V. DWG. 14032
 C.C.V. DWG. 21045
 C.C.V. DWG. 20024

BY
 REVISIONS [Table with columns for DISCIPLINE, CIVIL, DATE, App'd]

DATUM
 DESCRIPTION: BRASS DISK MARKED "SD CITY ENGR." IN 3/4" IRON PIPE 1.5 MILES EAST OF INTERSECTION OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROMINENT TO HIGH BOULDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT. #1359 PER R.O.S. 1484) ELEV. 628.319
 DATUM: NAVD '88 (NAVD '29)

SCALE
 Horizontal 1"=40'
 Vertical 1"=8'

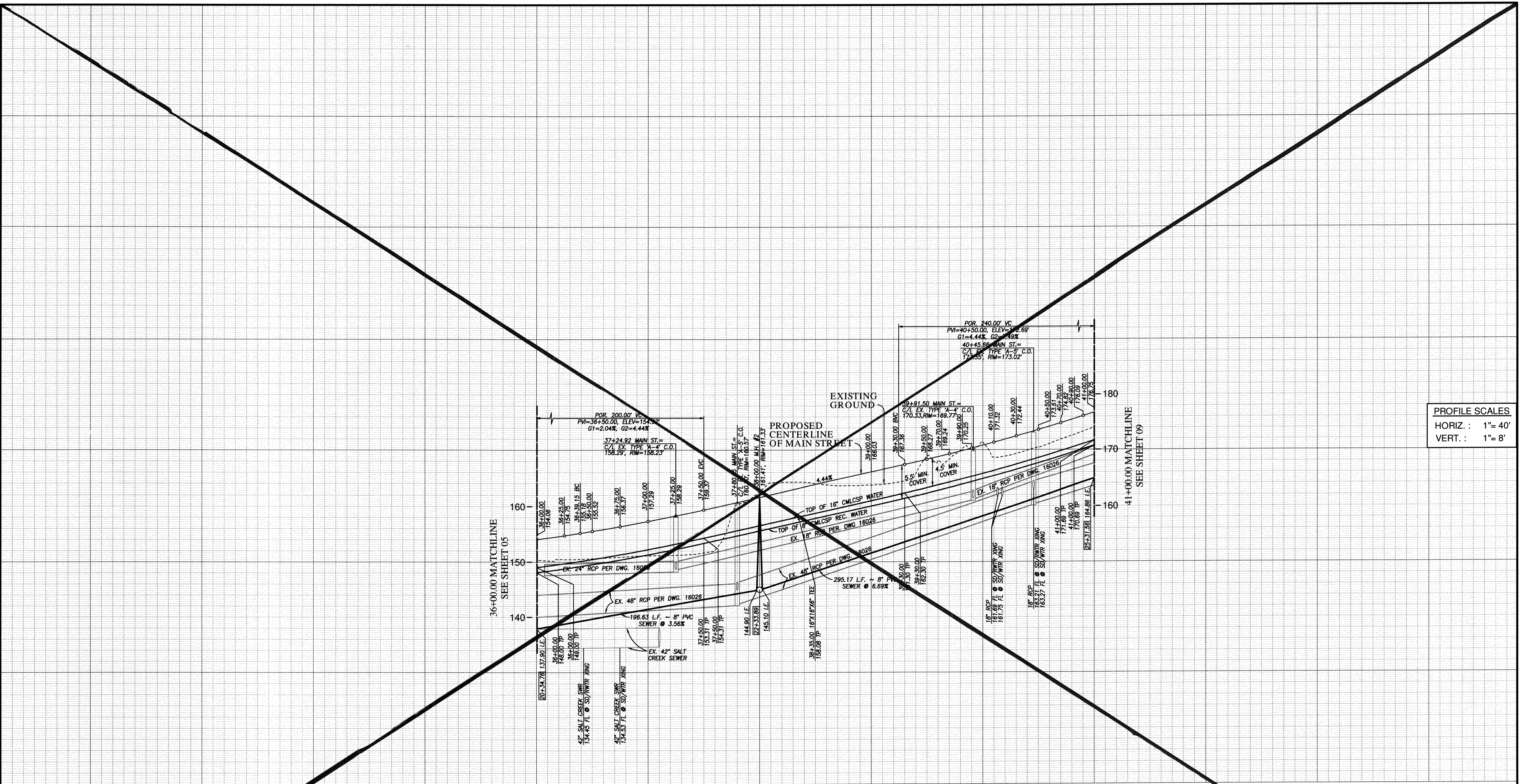
DESIGNED BY
 D.L. [Signature]
 PLANS PREPARED UNDER SUPERVISION OF ALISA S. VIALPANDO R.C.E. No. 47945

DATE
 02.24.2023

Submitted
 4/20/2023
 Approved: 4/21/2023
 Principal Civil Engineer

CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT
 MAIN STREET (EAST OF HERITAGE ROAD)
 CHULA VISTA TRACT NO. 16-02

DRAWING NO.
 22001-06
 W.O. NO. IP22003



PROFILE SCALES
HORIZ. : 1" = 40'
VERT. : 1" = 8'

MAIN STREET PUBLIC UTILITY PROFILE

36+00.00 TO 41+00.00

FOR EXISTING STORM DRAIN
INFO SEE C.C.V. 16026

APPROVED FOR SEWER ONLY
Approved: 11/21/2022
By: [Signature]
Principal City Engineer



HUNSAKER & ASSOCIATES
SAN DIEGO, INC.
ENGINEERING: 9707 Waples Street, San Diego, Ca. 92121
SURVEYING: PH: 619-595-4500 FX: 619-595-1414

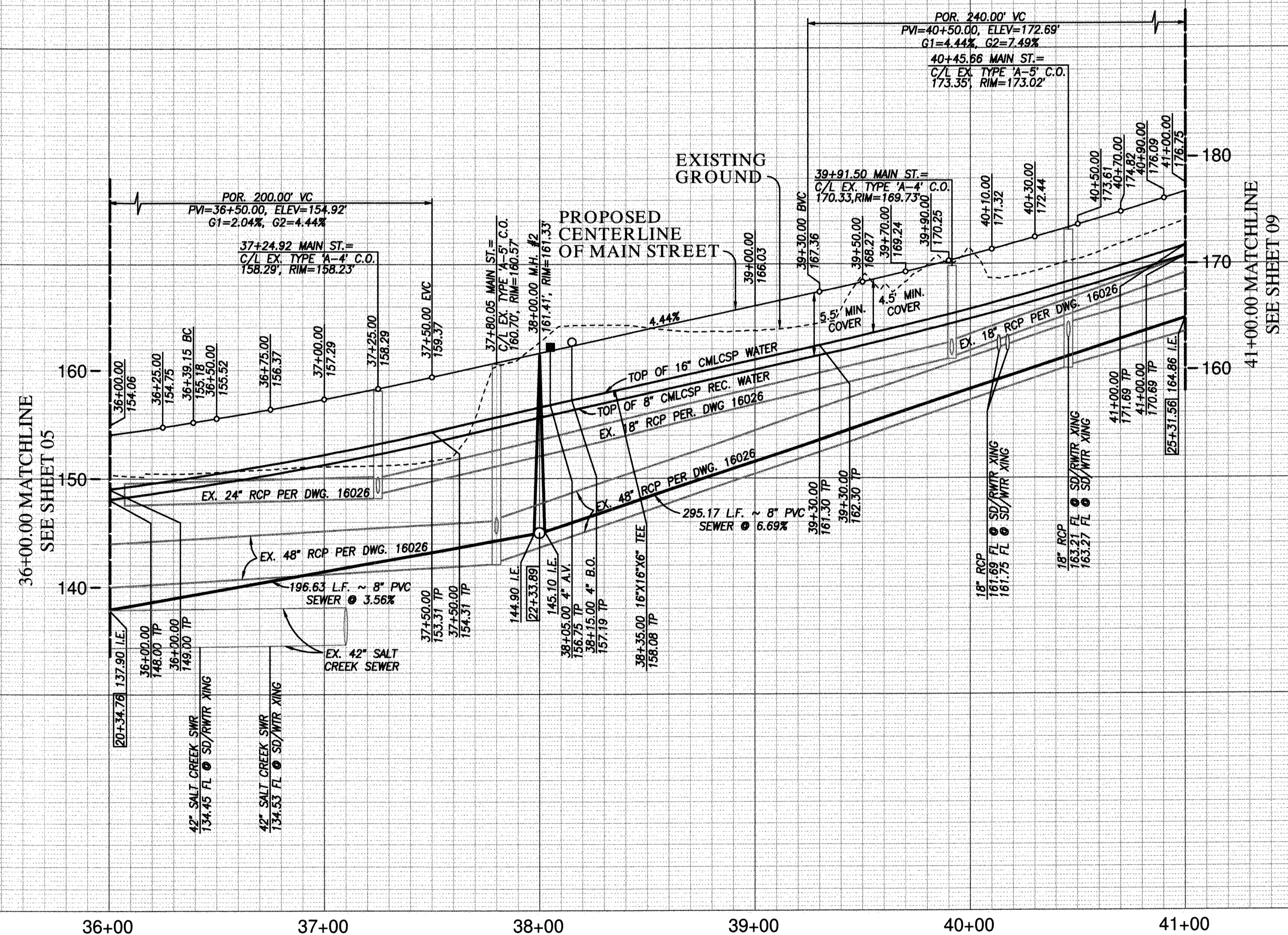
UTILITY NOTE	CITY "AS-BUILT"	O.W.D. "AS-BUILT"	OTAY WATER DISTRICT
ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	DATE: _____ (SIGNATURE) ALISA S. VIALPANDO P.E. NO.: 47945 MY REGISTRATION EXPIRES: _____ DISCIPLINE: CIVIL	DATE: _____ (SIGNATURE) ALISA S. VIALPANDO P.E. NO.: 47945 MY REGISTRATION EXPIRES: _____ DISCIPLINE: CIVIL	PROJECT#: D1019-090533 PERMIT#: DEV-22-001 P.Z.: W624 & RW680 REVIEWED BY: _____ DATE: _____

NO.	OTAY WATER DISTRICT REVISIONS	App'd	Date

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	D.A.T.U.M.	SCALE	Designed By	Drawn By	Checked By	Submitted:	Approved:	CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT	DRAWING NO.	
Contractor: _____ Inspector: _____ Date Completed: _____	C.C.V. DWG. 16026 C.C.V. DWG. 14032 C.C.V. DWG. 21045 C.C.V. DWG. 20024					DESCRIPTION: BRASS DISK MARKED "SD CITY ENGR." IN 3/4" IRON PIPE, 1.5 MILES EAST OF INTERSECTION OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROMINENT 10' HIGH BOULDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT. #1359 PER R.O.S. 14841) ELEV. 628.319 DATE: NAVD 88 (NAVD 28)	Horizontal 1"=40' Vertical 1"=8'	ALISA S. VIALPANDO	ALISA S. VIALPANDO	ALISA S. VIALPANDO		By: _____ Principal Civil Engineer	By: _____ Principal Civil Engineer	PUBLIC IMPROVEMENT PLANS FOR: MAIN STREET (EAST OF HERITAGE ROAD) CHULA VISTA TRACT NO. 16-02	22001-07 W.O. No. IP220003

VOID

R:\1327&E\Improvement Plans\Main Street Imp\1327IP07.dwg\Nov-18-2022:13:34



PROFILE SCALES
 HORIZ. : 1" = 40'
 VERT. : 1" = 8'

MAIN STREET PUBLIC UTILITY PROFILE

36+00.00 TO 41+00.00

FOR EXISTING STORM DRAIN
 INFO SEE C.C.V. 16026

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 ALISA S. VIALPANDO P.E. NO.: 47945 MY REGISTRATION EXPIRES: _____	(SIGNATURE) DATE ALISA S. VIALPANDO P.E. NO.: 47945 MY REGISTRATION EXPIRES: _____	PROJECT#: D1019-090533 PERMIT#: DEV-22-001 P.Z.: W624 & RW680 REVIEWED BY: <i>Jim M. Boyd</i> DATE: 02.24.2023	NO.	OTAY WATER DISTRICT REVISIONS
CONSTRUCTION RECORD	REFERENCES	REVISIONS	DATUM	App'd	Date
Contractor: _____	C.C.V. DWG. 16026		DESCRIPTION: BRASS DISK MARKED "SD CITY ENGR" IN 3/4" IRON PIPE, 1.5 MILES EAST OF INTERSECTION OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTLY OF PROMINENT 10' HIGH BOULDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT. #1359 PER R.O.S. 14841) ELEV. 628.319 DATUM: NAVD 88 (NAVD 28)		
Inspector: _____	C.C.V. DWG. 14032		SCALE	Submitted: 4/20/2023	Approved: 4/21/2023
Date Completed: _____	C.C.V. DWG. 21045		Horizontal 1"=40' Vertical 1"=8'	By: <i>[Signature]</i>	By: <i>[Signature]</i> Principal Civil Engineer
	C.C.V. DWG. 20024		Designed By: ALISA S. VIALPANDO	Planning: _____	Landscaping: _____
			Drawn By: _____		
			Checked By: _____		



CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT
 PUBLIC IMPROVEMENT PLANS FOR:
MAIN STREET (EAST OF HERITAGE ROAD)
 CHULA VISTA TRACT NO. 16-02

DRAWING NO. **22001-07**
 W.O. No. IP220003

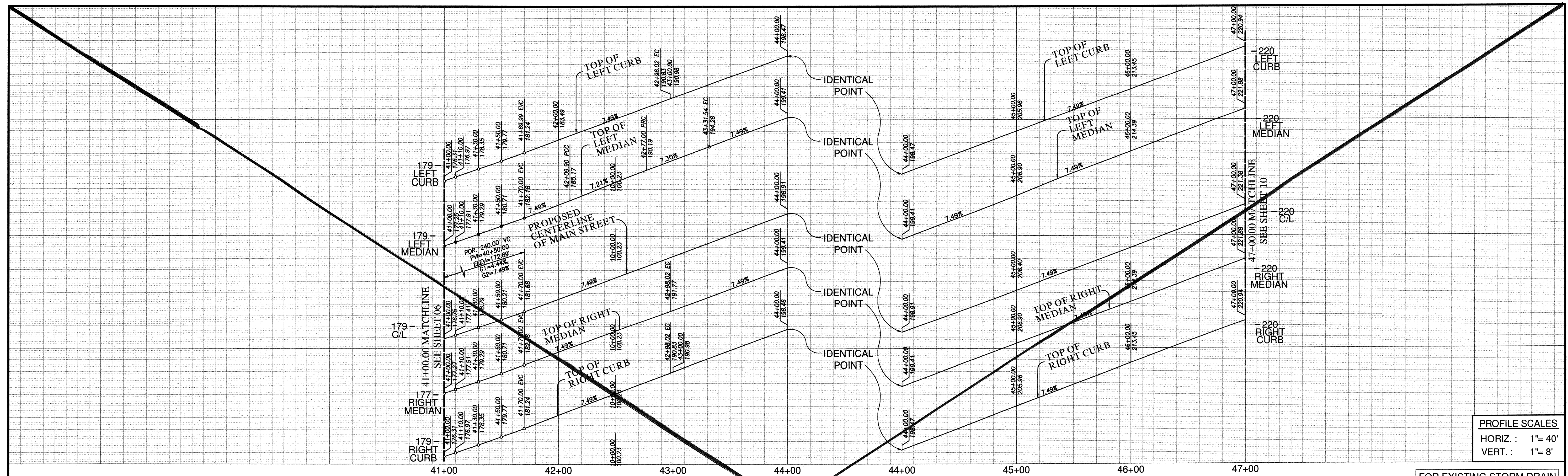
REPLACEMENT SHEET

MAIN STREET EAST OF HERITAGE ROAD
 PUBLIC IMPROVEMENT PLAN

W.O. NO. 2395-0012

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O.W.D. D1019-090533
 DEV-22-001



PROFILE SCALES
HORIZ. : 1" = 40'
VERT. : 1" = 8'

FOR EXISTING STORM DRAIN
INFO SEE C.C.V. 16026

SEE SHEET 09 FOR
UTILITY PROFILES

CENTERLINE DATA

BEARING/Delta	RADIUS	LENGTH	REMARKS
1 5°40'22"	2000.00'	198.02'	
2 N 71°58'20" E		401.98'	

CURB DATA

BEARING/Delta	RADIUS	LENGTH	REMARKS
1 5°40'22"	1950.00'	193.07'	6" TYPE 'G' C&G
2 N 71°58'20" E		401.98'	6" TYPE 'G' C&G
3 5°40'22"	2050.00'	202.97'	6" TYPE 'G' C&G
4 N 71°58'20" E		401.98'	6" TYPE 'G' C&G
5 3°08'54"	2004.00'	110.12'	6" TYPE 'B-1' CURB
6 13°21'28"	290.00'	67.61'	6" TYPE 'B-1' CURB
7 10°50'00"	290.00'	54.83'	6" TYPE 'B-1' CURB
8 N 71°58'20" E		368.46'	6" TYPE 'B-1' CURB
9 5°40'22"	2008.00'	198.81'	6" TYPE 'B-1' CURB
10 N 71°58'20" E		401.98'	6" TYPE 'B-1' CURB

WATER DATA

BEARING/Delta	RADIUS	LENGTH	REMARKS
1 5°40'22"	*2036.00'	201.58'	16" CMLCSP 624PZ
2 N 71°58'20" E		401.98'	16" CMLCSP 624PZ

*ALL CURVES, HORIZONTAL AND VERTICAL SHALL USE HIGH DEFLECTION COUPLINGS PER W.A.S. STANDARD SPECIFICATION 15061

RECYCLED WATER DATA

BEARING/Delta	RADIUS	LENGTH	REMARKS
A 5°40'22"	*2024.00'	200.39'	8" CMLCSP 680PZ
B N 71°58'20" E		401.98'	8" CMLCSP 680PZ

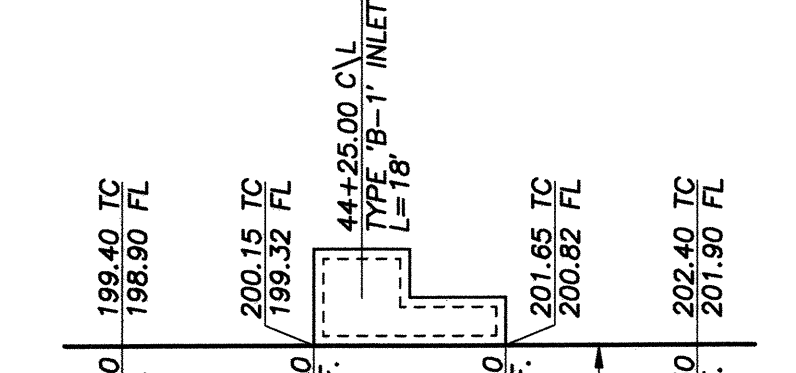
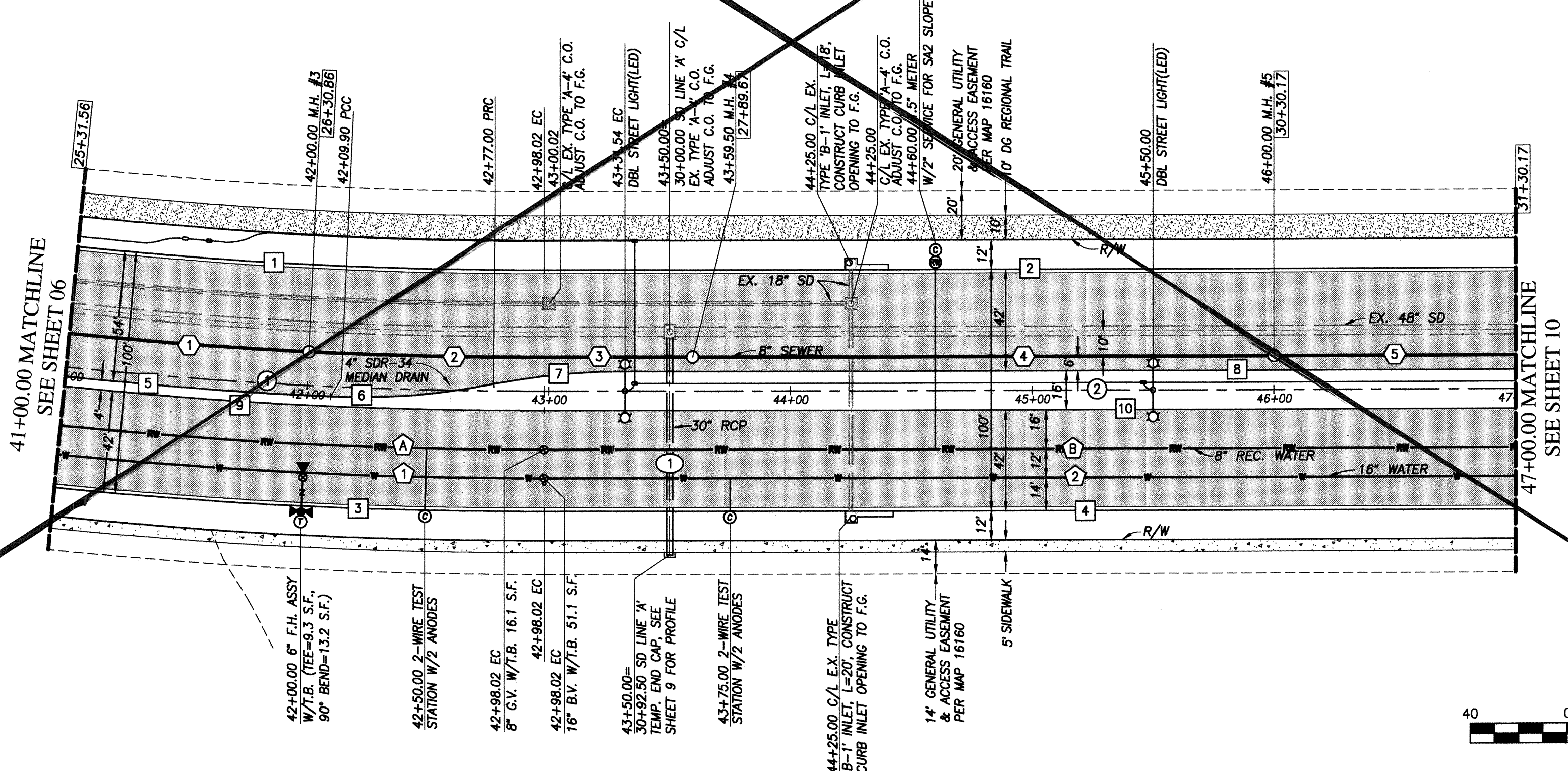
*ALL CURVES, HORIZONTAL AND VERTICAL SHALL USE HIGH DEFLECTION COUPLINGS PER W.A.S. STANDARD SPECIFICATION 15061

SEWER DATA

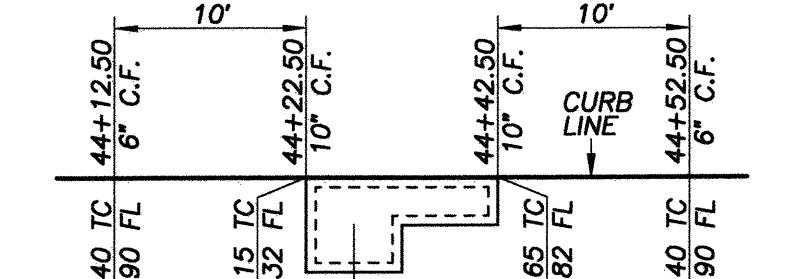
BEARING/Delta	RADIUS	LENGTH	REMARKS
1 2°51'53"	1986.00'	99.30'	8" PVC SDR-26
2 2°48'29"	1986.00'	97.33'	8" PVC
3 N 71°58'20" E		61.48'	8" PVC
4 N 71°58'20" E		240.50'	8" PVC
5 N 71°58'20" E		100.00'	8" PVC

STORM DRAIN DATA

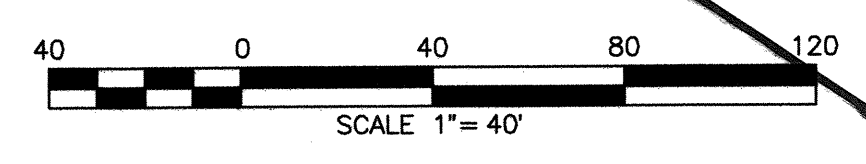
BEARING/Delta	RADIUS	LENGTH	REMARKS
1 N 18°01'40" W		90.00'	30" RCP (30000)



44+25.00 C/L TYPE 'B-1' INLET. L=18'
N.T.S.



44+25.00 C/L TYPE 'B-1' INLET. L=20'
N.T.S.



MAIN STREET
41+00.00 TO 47+00.00

APPROVED FOR SEWER ONLY

Approved 11/21/2022
By Alisa S. Vialpando
Principal City Engineer

NO.	OTAY WATER DISTRICT REVISIONS	App'd	Date



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
ALISA S. VIALPANDO	P.E. NO.: 47945

MY REGISTRATION EXPIRES: DISCIPLINE CIVIL

O.W.D. "AS-BUILT"

(SIGNATURE)	DATE
ALISA S. VIALPANDO	P.E. NO.: 47945

MY REGISTRATION EXPIRES: DISCIPLINE CIVIL

OTAY WATER DISTRICT

PROJECT#: D1019-090533
PERMIT#: DEV-22-001
P.Z.: W624 & RW680

REVIEWED BY: DATE:

CONSTRUCTION RECORD

CONTRACTOR	REFERENCES	BY	REVISIONS	Date	App'd
	C.C.V. DWG. 16026				
	C.C.V. DWG. 14032				
	C.C.V. DWG. 21045				
	C.C.V. DWG. 20024				

DATUM

DESCRIPTION: BRASS DISK MARKED "SD CITY ENGR." IN 3/4" IRON PIPE, 1.5 MILES EAST OF INTERSECTION OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROMINENT 10' HIGH BOULDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT. #1359 PER R.O.S. 14841) ELEV. 628.319
DATUM: NAVD 88 (NAVD 29)

SCALE

Horizontal 1"=40'
Vertical 1"=8'

Designed By: Alisa S. Vialpando
D.L./G.D.

Drawn By: Alisa S. Vialpando
D.L./G.D.

Checked By: Alisa S. Vialpando
Y.C./A.V.

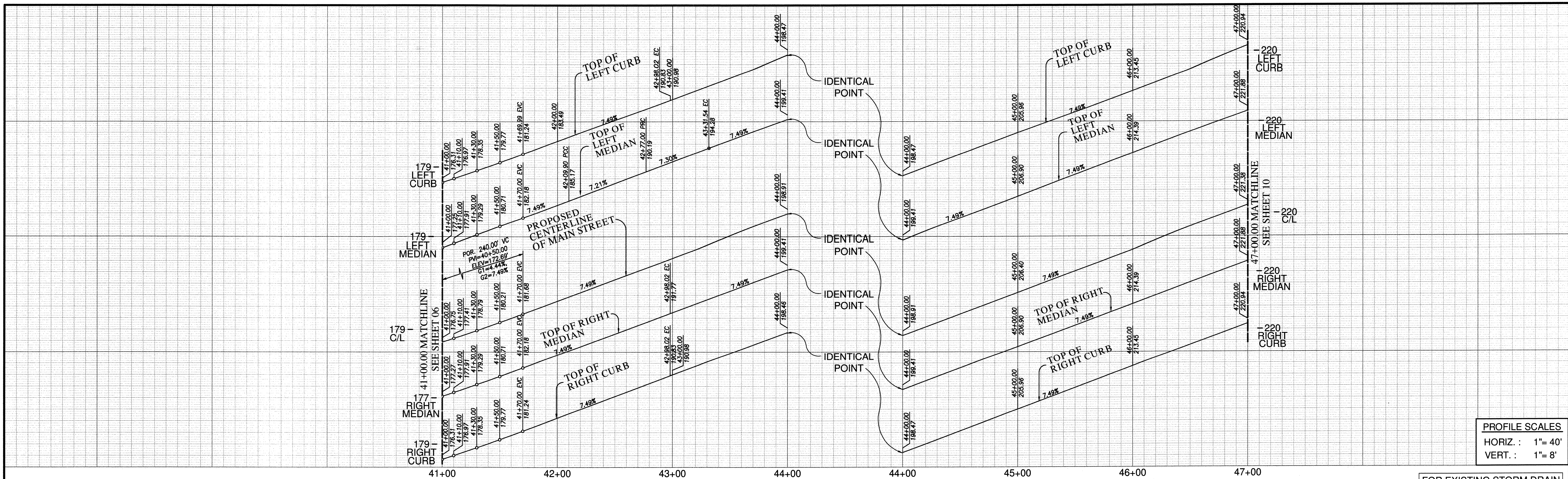
Submitted: 11/21/22
By: Alisa S. Vialpando
Principal Civil Engineer

Planning: Alisa S. Vialpando
Landscape: Alisa S. Vialpando

VOID

CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT
PUBLIC IMPROVEMENT PLANS FOR:
MAIN STREET (EAST OF HERITAGE ROAD)
CHULA VISTA TRACT NO. 16-02

DRAWING NO. **22001-08**
W.O. No. IP220003



PROFILE SCALES
 HORIZ : 1"=40'
 VERT : 1"=8'

FOR EXISTING STORM DRAIN
 INFO SEE C.C.V. 16026

SEE SHEET 09 FOR
 UTILITY PROFILES

CENTERLINE DATA

BEARING/DELTA	RADIUS	LENGTH	REMARKS
1 5°40'22"	2000.00'	198.02'	
2 N 71°58'20" E		401.98'	

CURB DATA

BEARING/DELTA	RADIUS	LENGTH	REMARKS
1 5°40'22"	1950.00'	193.07'	6" TYPE 'C' C&G
2 N 71°58'20" E		401.98'	6" TYPE 'C' C&G
3 5°40'22"	2050.00'	202.97'	6" TYPE 'C' C&G
4 N 71°58'20" E		401.98'	6" TYPE 'C' C&G
5 3°08'54"	2004.00'	110.12'	6" TYPE 'B-1' CURB
6 13°21'28"	290.00'	67.61'	6" TYPE 'B-1' CURB
7 10°50'00"	290.00'	54.83'	6" TYPE 'B-1' CURB
8 N 71°58'20" E		368.46'	6" TYPE 'B-1' CURB
9 5°40'22"	2008.00'	198.81'	6" TYPE 'B-1' CURB
10 N 71°58'20" E		401.98'	6" TYPE 'B-1' CURB

WATER DATA

BEARING/DELTA	RADIUS	LENGTH	REMARKS
1 5°40'22"	*2036.00'	201.58'	16" CMLCSP 624PZ
2 N 71°58'20" E		401.98'	16" CMLCSP 624PZ

*ALL CURVES, HORIZONTAL AND VERTICAL SHALL USE HIGH DEFLECTION COUPLINGS PER W.A.S. STANDARD SPECIFICATION 15061

RECYCLED WATER DATA

BEARING/DELTA	RADIUS	LENGTH	REMARKS
A 5°40'22"	*2024.00'	200.39'	8" CMLCSP 680PZ
B N 71°58'20" E		401.98'	8" CMLCSP 680PZ

*ALL CURVES, HORIZONTAL AND VERTICAL SHALL USE HIGH DEFLECTION COUPLINGS PER W.A.S. STANDARD SPECIFICATION 15061

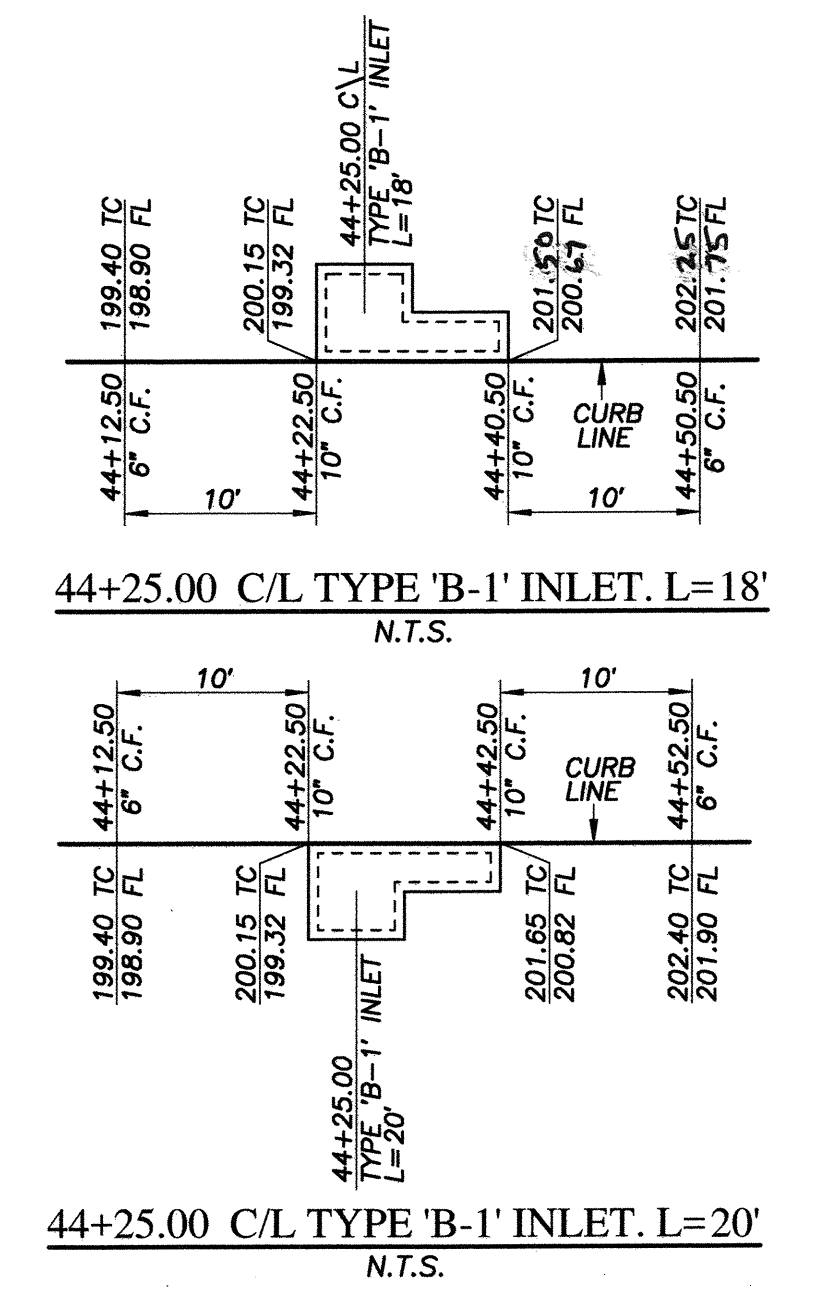
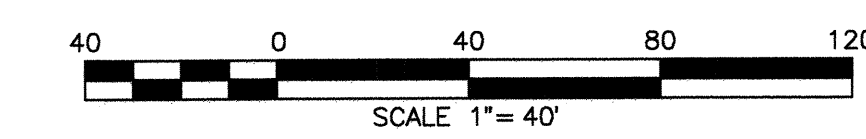
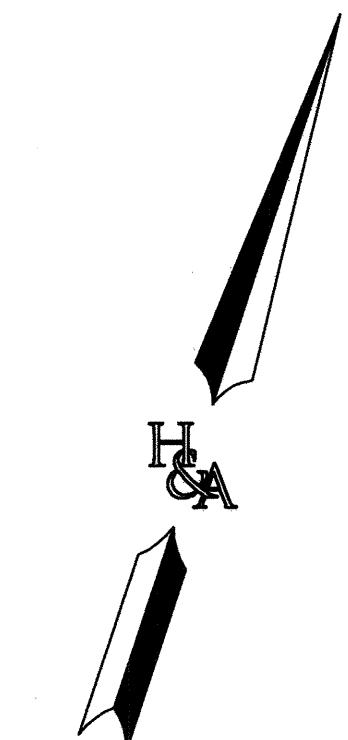
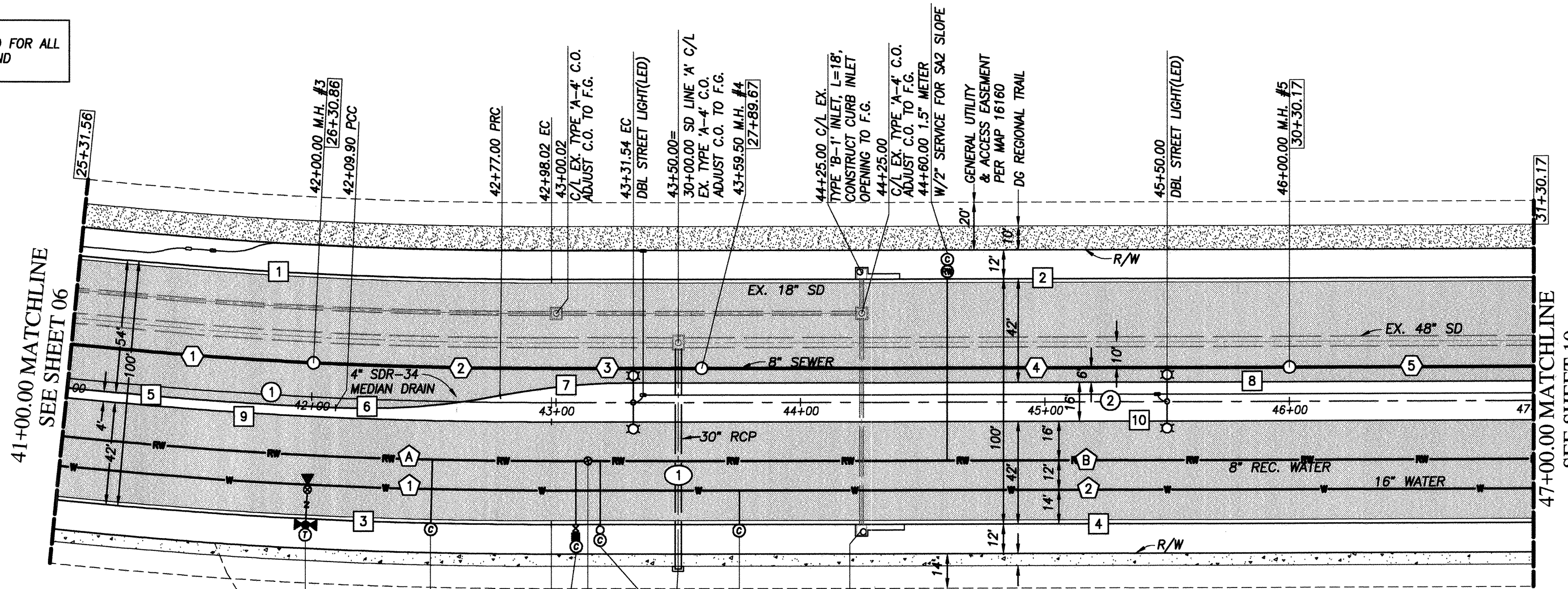
SEWER DATA

BEARING/DELTA	RADIUS	LENGTH	REMARKS
1 2°51'53"	1986.00'	99.30'	8" PVC SDR-26
2 2°48'29"	1986.00'	97.33'	8" PVC
3 N 71°58'20" E		61.48'	8" PVC
4 N 71°58'20" E		240.50'	8" PVC
5 N 71°58'20" E		100.00'	8" PVC

STORM DRAIN DATA

BEARING/DELTA	RADIUS	LENGTH	REMARKS
1 N 18°01'40" W		90.00'	30" RCP (15000)

NOTE:
 1. SUPPORT BLOCKS ARE REQUIRED FOR ALL TEES, CROSSES, GATE VALVES AND BUTTERFLY GATE VALVES.



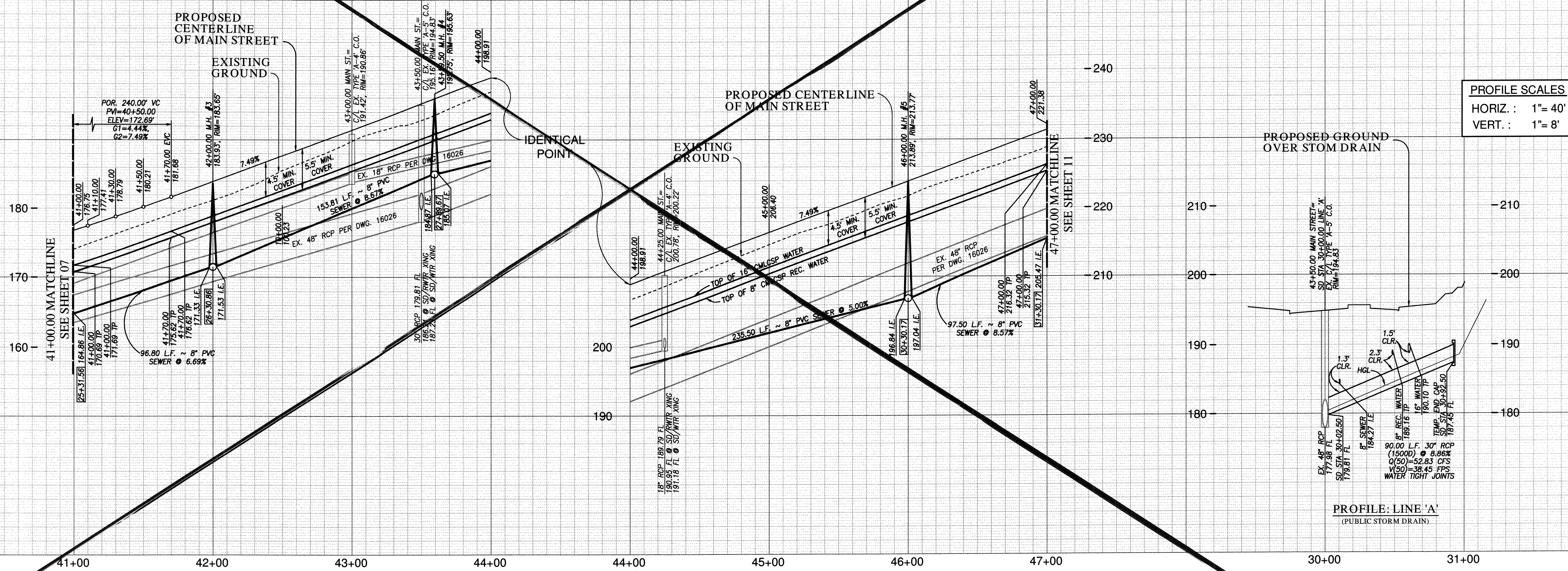
MAIN STREET
 41+00.00 TO 47+00.00

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 ALISA S. WALPANDO P.E. NO.: 47945		(SIGNATURE) DATE ALISA S. WALPANDO P.E. NO.: 47945		PROJECT# D1019-090533 PERMIT# DEV-22-001 P.Z.: W624 & RW680 REVIEWED BY: <i>Alisa S. Walpando</i> DATE: 02.24.2023	
CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	DATUM	SCALE
Contractor: _____	C.C.V. DWG. 16026					DESCRIPTION: BRASS DISK MARKED "SD CITY ENGR." IN 3/4" IRON PIPE 1.5 MILES EAST OF INTERSECTION OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 10' EASTERN SIDE OF PROMONTORY HIGH ROADWAY & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT. #1359 PER B.O.S. 1484) ELEV. 628.319	Horizontal 1"=40' Vertical 1"=8'
Inspector: _____	C.C.V. DWG. 14032					DATE: NAVD '88 (NAVD '23)	Designed By: <i>Alisa S. Walpando</i> Drawn By: <i>R.C.E. No. 47945</i> Checked By: _____
Date Completed: _____	C.C.V. DWG. 21045						Submitted: 4/20/2023 By: _____ Approved: 4/21/2023 By: _____ Principal Civil Engineer
	C.C.V. DWG. 20024						Submitted: _____ By: _____ Approved: _____ Principal Civil Engineer
CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT						DRAWING NO.	
PUBLIC IMPROVEMENT PLANS FOR:						22001-08	
MAIN STREET (EAST OF HERITAGE ROAD)						W.O. NO. IP220003	
CHULA VISTA TRACT NO. 16-02							

REPLACEMENT SHEET

MAIN STREET EAST OF HERITAGE ROAD
 PUBLIC IMPROVEMENT PLAN

W.O. NO. 2395-0012



MAIN STREET PUBLIC UTILITY PROFILE

41+00.00 TO 47+00.00

FOR EXISTING STORM DRAIN
INFO SEE C.C.V. 16026

APPROVED FOR SEWER ONLY
 Approved: 11/21/2022
 By: Alisa S. Vialpando
 Principal City Engineer

NO.	OTAY WATER DISTRICT REVISIONS	App'd	Date



CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd
Contractor:	C.C.V. DWG. 16026				
Inspect:	C.C.V. DWG. 14032				
Date Completed:	C.C.V. DWG. 21045				
	C.C.V. DWG. 20024				

CITY "AS-BUILT"		O.W.D. "AS-BUILT"	
(SIGNATURE)	DATE	(SIGNATURE)	DATE
ALISA S. VIALPANDO (PRINTED NAME)	P.E. NO.: 47945	ALISA S. VIALPANDO	P.E. NO.: 47945
MY REGISTRATION EXPIRES:	DISCIPLINE CIVIL	MY REGISTRATION EXPIRES:	DISCIPLINE CIVIL

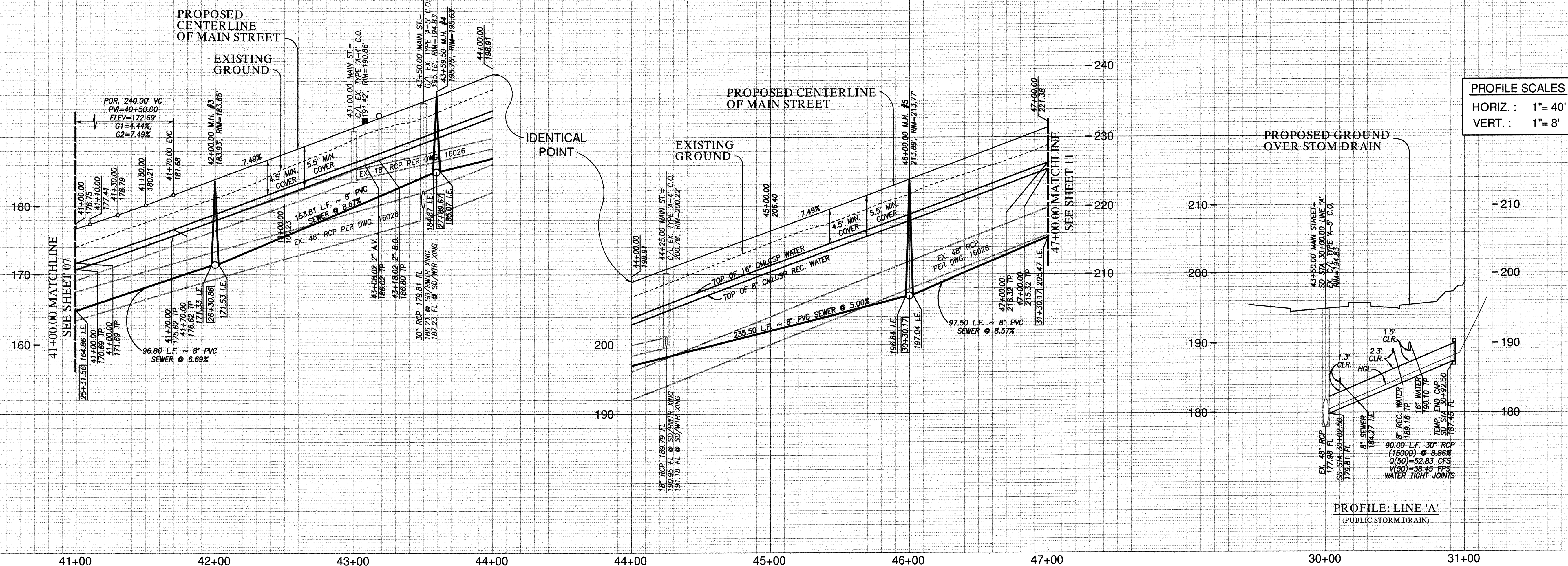
OTAY WATER DISTRICT	
PROJECT#: D1019-090533	P.Z.: W624 & RW680
PERMIT#: DEV-22-001	
REVIEWED BY:	DATE:

SCALE	Designed By	Drawn By	Checked By
Horizontal 1"=40'			
Vertical 1"=8'			

Submitted:	Approved:
By:	By:
	Principal Civil Engineer

CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT		DRAWING NO.
PUBLIC IMPROVEMENT PLANS FOR: MAIN STREET (EAST OF HERITAGE ROAD) CHULA VISTA TRACT NO. 16-02		22001-09
		O.W.D. D1019-090533 DEV-22-001

VOID



MAIN STREET PUBLIC UTILITY PROFILE

41+00.00 TO 47+00.00

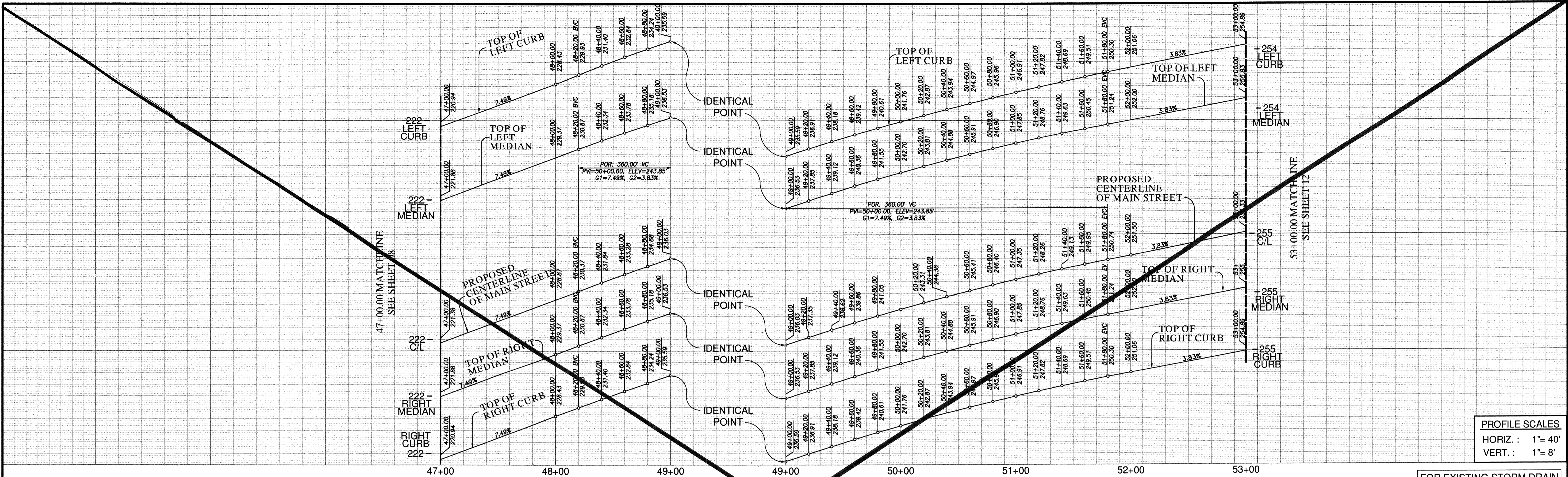
FOR EXISTING STORM DRAIN
INFO SEE C.C.V. 16026

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 _____ ALISA S. VIALPANDO P.E. NO.: 47945		(SIGNATURE) _____ DATE _____ ALISA S. VIALPANDO P.E. NO.: 47945		PROJECT# D1019-090533 PERMIT# DEV-22-001 P.Z.: W624 & RW680		Submitted: 4/20/2023 By: <i>[Signature]</i>		Approved: 4/21/2023 By: <i>[Signature]</i> Principal Civil Engineer	
		MY REGISTRATION EXPIRES: _____ DISCIPLINE: CIVIL		MY REGISTRATION EXPIRES: _____ DISCIPLINE: CIVIL		REVIEWED BY: <i>[Signature]</i> DATE: 02.24.2023		Planning: _____ Landscape: _____		CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT PUBLIC IMPROVEMENT PLANS FOR: MAIN STREET (EAST OF HERITAGE ROAD) CHULA VISTA TRACT NO. 16-02	
CONSTRUCTION RECORD		REFERENCES		BY		REVISIONS		Date		App'd	
Contractor: _____ Inspector: _____ Date Completed: _____		C.C.V. DWG. 16026 C.C.V. DWG. 14032 C.C.V. DWG. 21045 C.C.V. DWG. 20024									
						DESCRIPTION: BRASS DISK MARKED "SD CITY ENGR." IN 3/4" IRON PIPE, 1.2 MILES EAST OF INTERSECTION OF MAIN ST & HERITAGE RD ON ROCK MOUNTAIN 100' EASTERLY OF PROMINENT 10' HIGH BOULDER AT 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT. #1359 PER B.C.S. 1484.) ELEV. 628.319 DATUM: NAVD '88 (NAVD '23)		SCALE Horizontal 1"=40' Vertical 1"=8'		Designed By: _____ Drawn By: _____ Checked By: _____ Submitted: 4/20/2023 By: <i>[Signature]</i> Planning: _____ Landscape: _____	

REPLACEMENT SHEET

O.W.D. D1019-090533
DEV-22-001

R:\1327&Eng\Improvement Plans\Main Street Imp\1327IP09.dwg\Feb-22-2023-13:48



PROFILE SCALES
HORIZ. : 1" = 40'
VERT. : 1" = 8'

FOR EXISTING STORM DRAIN
INFO SEE C.C.V. 16026

SEE SHEET 11 FOR
UTILITY PROFILES

CENTERLINE DATA

BEARING/Delta	RADIUS	LENGTH	REMARKS
1 N 71°58'20" E	800.00'	800.00'	

CURB DATA

BEARING/Delta	RADIUS	LENGTH	REMARKS
1 N 71°58'20" E	800.00'	800.00'	6" TYPE 'G' C&G
2 N 71°58'20" E	800.00'	800.00'	6" TYPE 'G' C&G
3 N 71°58'20" E	800.00'	800.00'	6" TYPE 'B-1' CURB
4 N 71°58'20" E	800.00'	800.00'	6" TYPE 'B-1' CURB

WATER DATA

BEARING/Delta	RADIUS	LENGTH	REMARKS
1 N 71°58'20" E	130.00'	130.00'	16" CMLCSP 624PZ
2 N 71°58'20" E	470.00'	470.00'	16" PVC 624PZ*
3 N 18°01'40" W	26.00'	26.00'	6" PVC 624PZ**
4 N 18°01'40" W	32.00'	32.00'	8" PVC 624PZ**

*CL 235, C905, DR-18
**CL 305, C900, DR-14

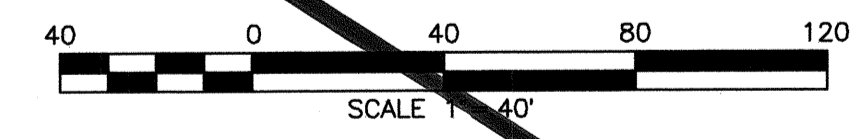
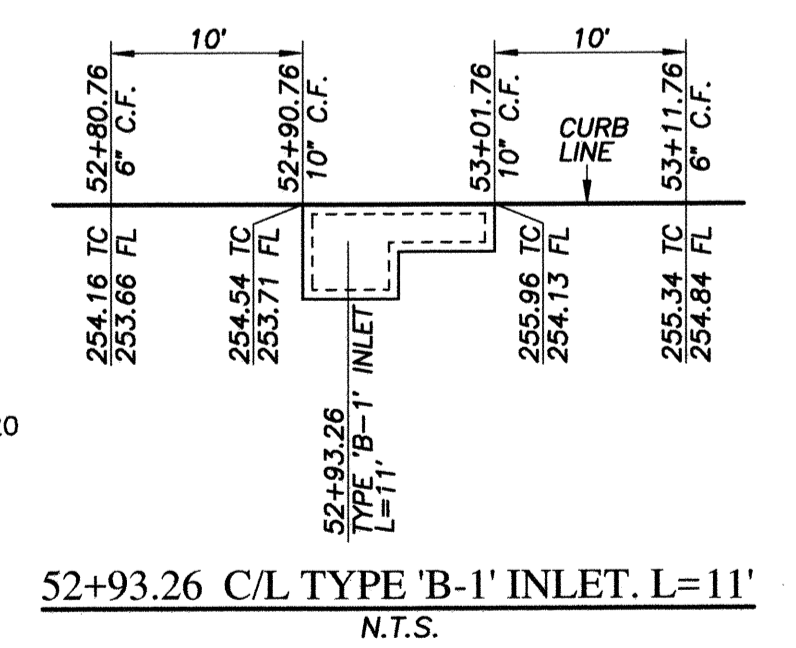
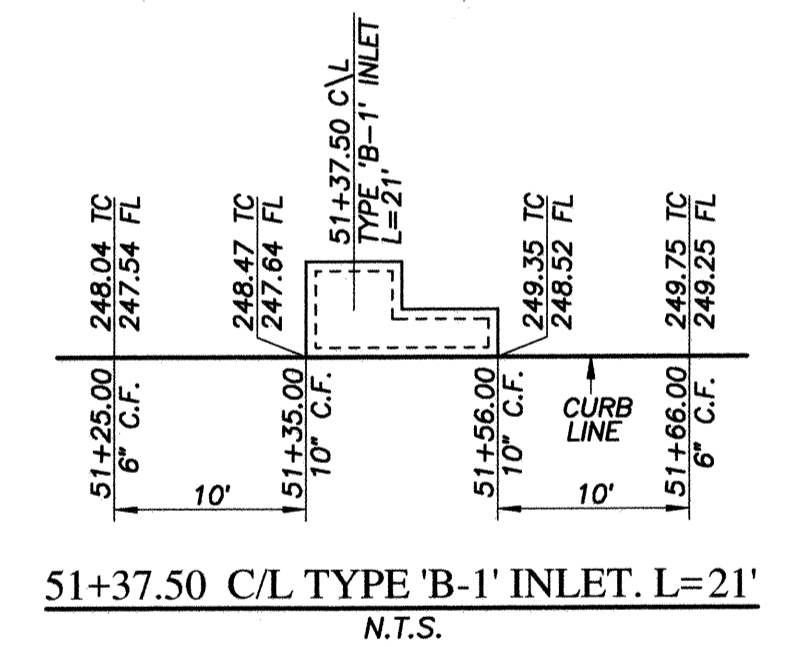
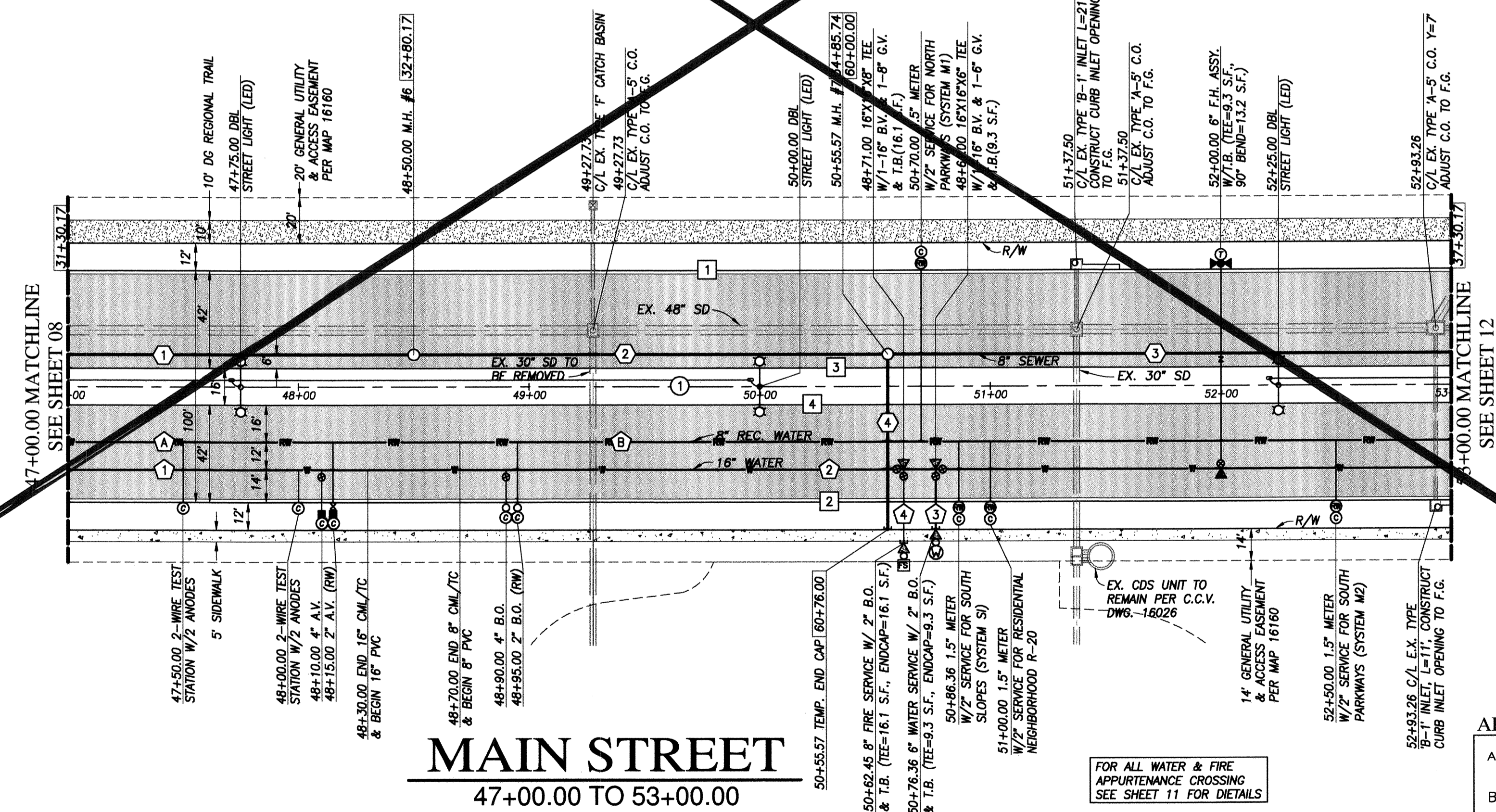
RECYCLED WATER DATA

BEARING/Delta	RADIUS	LENGTH	REMARKS
A N 71°58'20" E	170.00'	170.00'	8" CMLCSP 680PZ
B N 71°58'20" E	430.00'	430.00'	8" PVC 680PZ*

*CL 305, C900, DR-14

SEWER DATA

BEARING/Delta	RADIUS	LENGTH	REMARKS
1 N 71°58'20" E	150.00'	150.00'	8" PVC
2 N 71°58'20" E	205.57'	205.57'	8" PVC
3 N 71°58'20" E	244.43'	244.43'	8" PVC
4 N 18°01'40" W	76.00'	76.00'	8" PVC



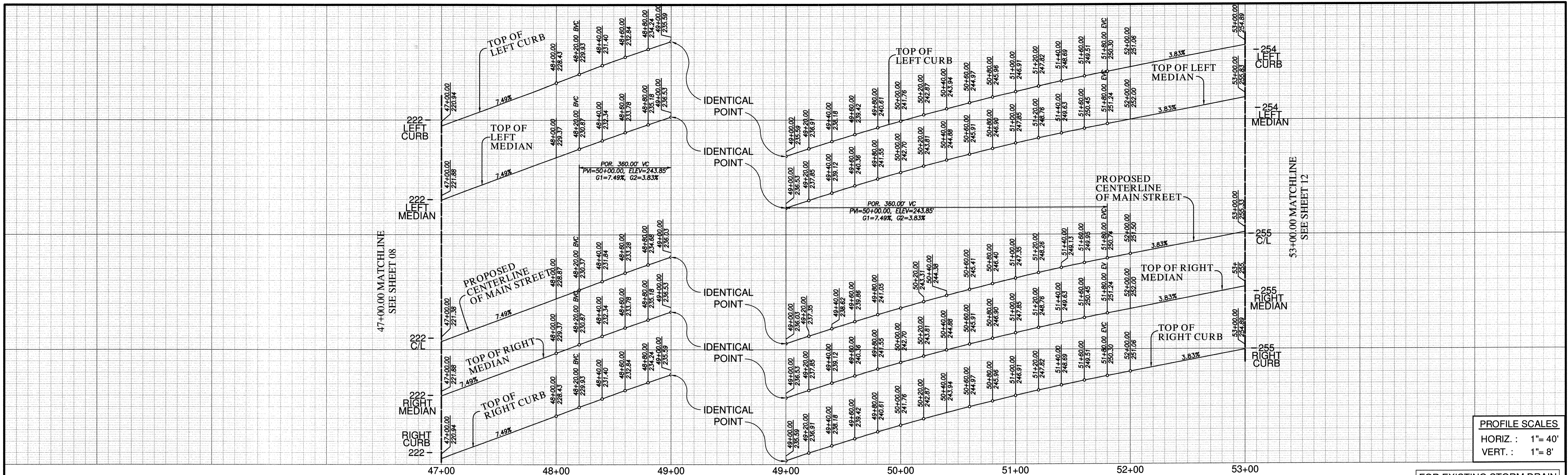
APPROVED FOR SEWER ONLY

Approved 11/21/2022
By *[Signature]*
Principal City Engineer

FOR ALL WATER & FIRE
APPURTENANCE CROSSING
SEE SHEET 11 FOR DETAILS

<p>UTILITY NOTE</p> <p>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.</p>		<p>CITY "AS-BUILT"</p> <p>(SIGNATURE) DATE ALISA S. VIALPANDO P.E. NO.: 47945</p>		<p>O.W.D. "AS-BUILT"</p> <p>(SIGNATURE) DATE ALISA S. VIALPANDO P.E. NO.: 47945</p>		<p>OTAY WATER DISTRICT</p> <p>PROJECT#: D1019-090533 PERMIT#: DEV-22-001 P.Z.: W624 & RW680</p>		<p>NO. OTAY WATER DISTRICT REVISIONS App'd Date</p>			
<p>CONSTRUCTION RECORD</p> <p>Contractor: C.C.V. DWG. 16026 Inspector: C.C.V. DWG. 14032 Date Completed: C.C.V. DWG. 21045 C.C.V. DWG. 20024</p>		<p>REFERENCES</p> <p>BY REVISIONS Date App'd</p>		<p>DATUM</p> <p>DESCRIPTION: BRASS DISK MARKED "SD CITY ENGR." IN 3/4" IRON PIPE 1.5 MILES EAST OF INTERSECTION OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROMINENT 10' HIGH BOULDER & 1700' SOUTHWESTLY OF WATER STORAGE FACILITY. (PT. #1359 PER R.O.S. 14841) ELEV. 828.319 DATUM: NAD 88 (NAVD 79)</p>		<p>SCALE</p> <p>Horizontal 1"=40' Vertical 1"=8'</p>		<p>Designed By: <i>[Signature]</i> D.L./G.D. Checked By: Y.C./A.V. Date: 11/18/22 R.C.E. No.: 47945</p>		<p>Submitted: _____ By: _____ Approved: _____ By: _____ Principal Civil Engineer</p>	
<p>CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT PUBLIC IMPROVEMENT PLANS FOR: MAIN STREET (EAST OF HERITAGE ROAD) CHULA VISTA TRACT NO. 16-02</p>											
<p>DRAWING NO. 2200-10</p>									<p>O.W.D. D1019-090533 DEV-22-001</p>		

VOID



PROFILE SCALES
 HORIZ : 1" = 40'
 VERT : 1" = 8'

FOR EXISTING STORM DRAIN
 INFO SEE C.C.V. 16026

SEE SHEET 11 FOR
 UTILITY PROFILES

CENTERLINE DATA

BEARING/Delta	RADIUS	LENGTH	REMARKS
1 N 71°58'20" E	600.00'	600.00'	

CURB DATA

BEARING/Delta	RADIUS	LENGTH	REMARKS
1 N 71°58'20" E	600.00'	600.00'	6" TYPE 'C' C&G
2 N 71°58'20" E	600.00'	600.00'	6" TYPE 'C' C&G
3 N 71°58'20" E	600.00'	600.00'	6" TYPE 'B-1' CURB
4 N 71°58'20" E	600.00'	600.00'	6" TYPE 'B-1' CURB

WATER DATA

BEARING/Delta	RADIUS	LENGTH	REMARKS
1 N 71°58'20" E	130.00'	130.00'	16" CMLCSP 624PZ
2 N 71°58'20" E	470.00'	470.00'	16" PVC 624PZ*
3 N 18°01'40" W	26.00'	26.00'	6" PVC 624PZ**
4 N 18°01'40" W	32.00'	32.00'	8" PVC 624PZ**

*CL 235, C905, DR-18
 **CL 305, C900, DR-14

RECYCLED WATER DATA

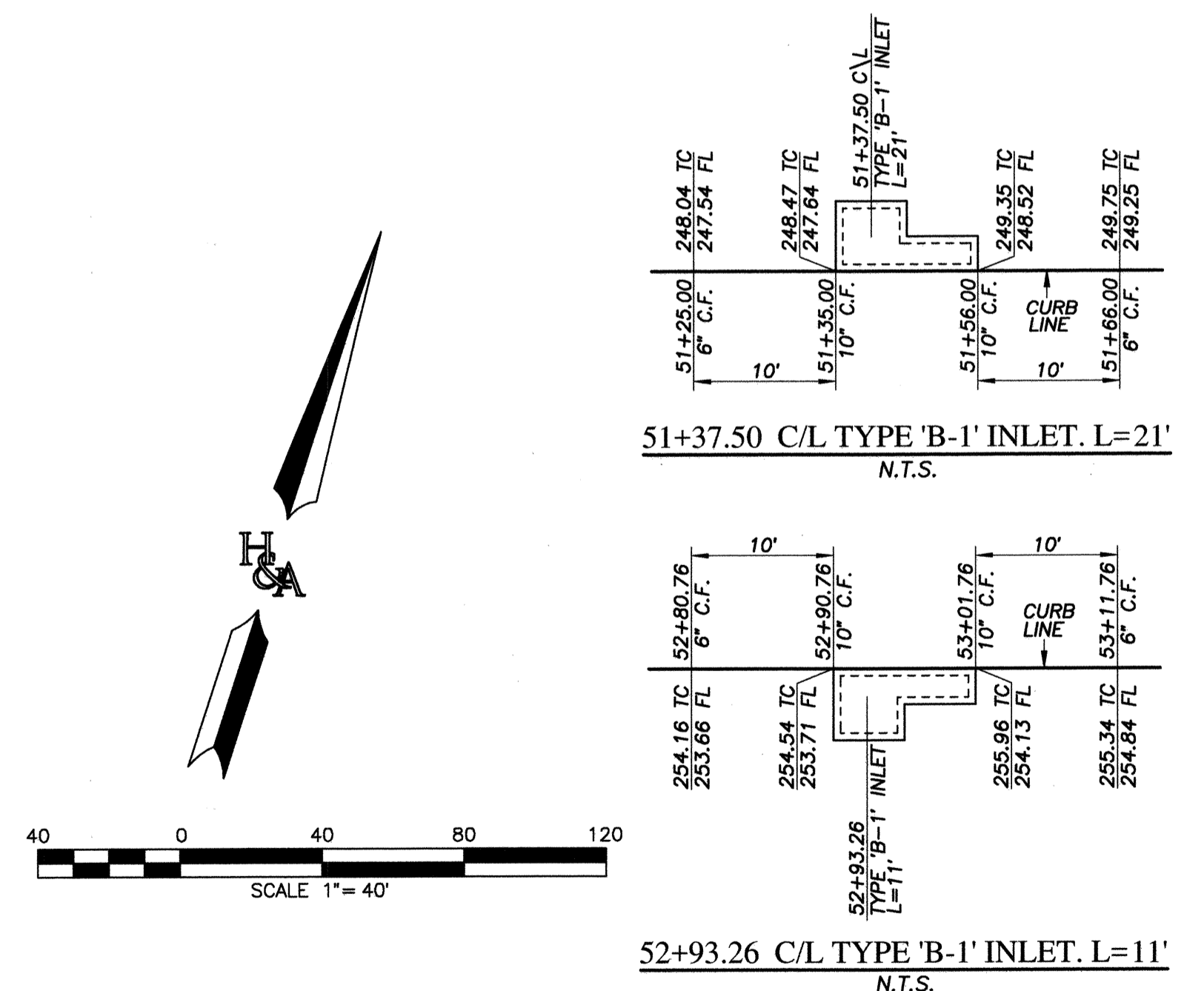
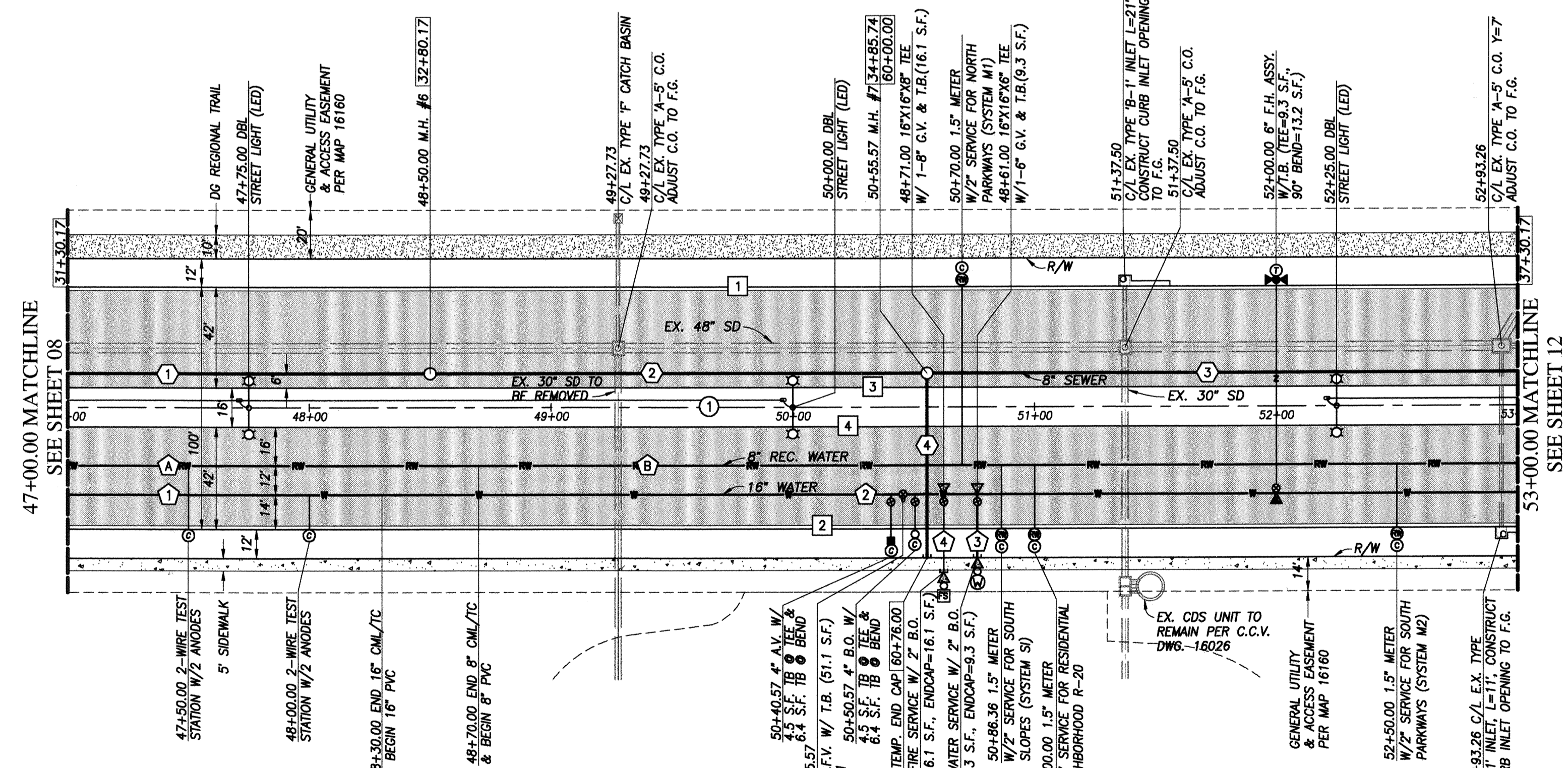
BEARING/Delta	RADIUS	LENGTH	REMARKS
A N 71°58'20" E	170.00'	170.00'	8" CMLCSP 680PZ
B N 71°58'20" E	430.00'	430.00'	8" PVC 680PZ*

*CL 305, C900, DR-14

SEWER DATA

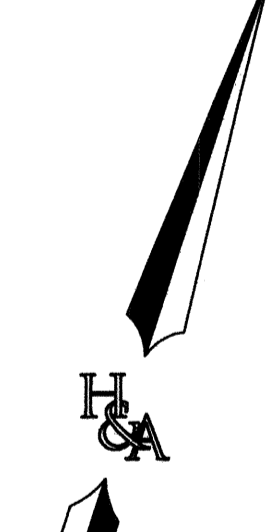
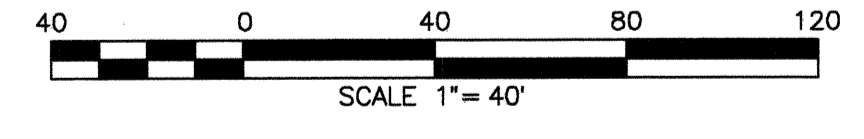
BEARING/Delta	RADIUS	LENGTH	REMARKS
1 N 71°58'20" E	150.00'	150.00'	8" PVC
2 N 71°58'20" E	205.57'	205.57'	8" PVC
3 N 71°58'20" E	244.43'	244.43'	8" PVC
4 N 18°01'40" W	76.00'	76.00'	8" PVC

NOTE:
 1. SUPPORT BLOCKS ARE REQUIRED FOR ALL TEES, CROSSES, GATE VALVES AND BUTTERFLY GATE VALVES.



MAIN STREET
 47+00.00 TO 53+00.00

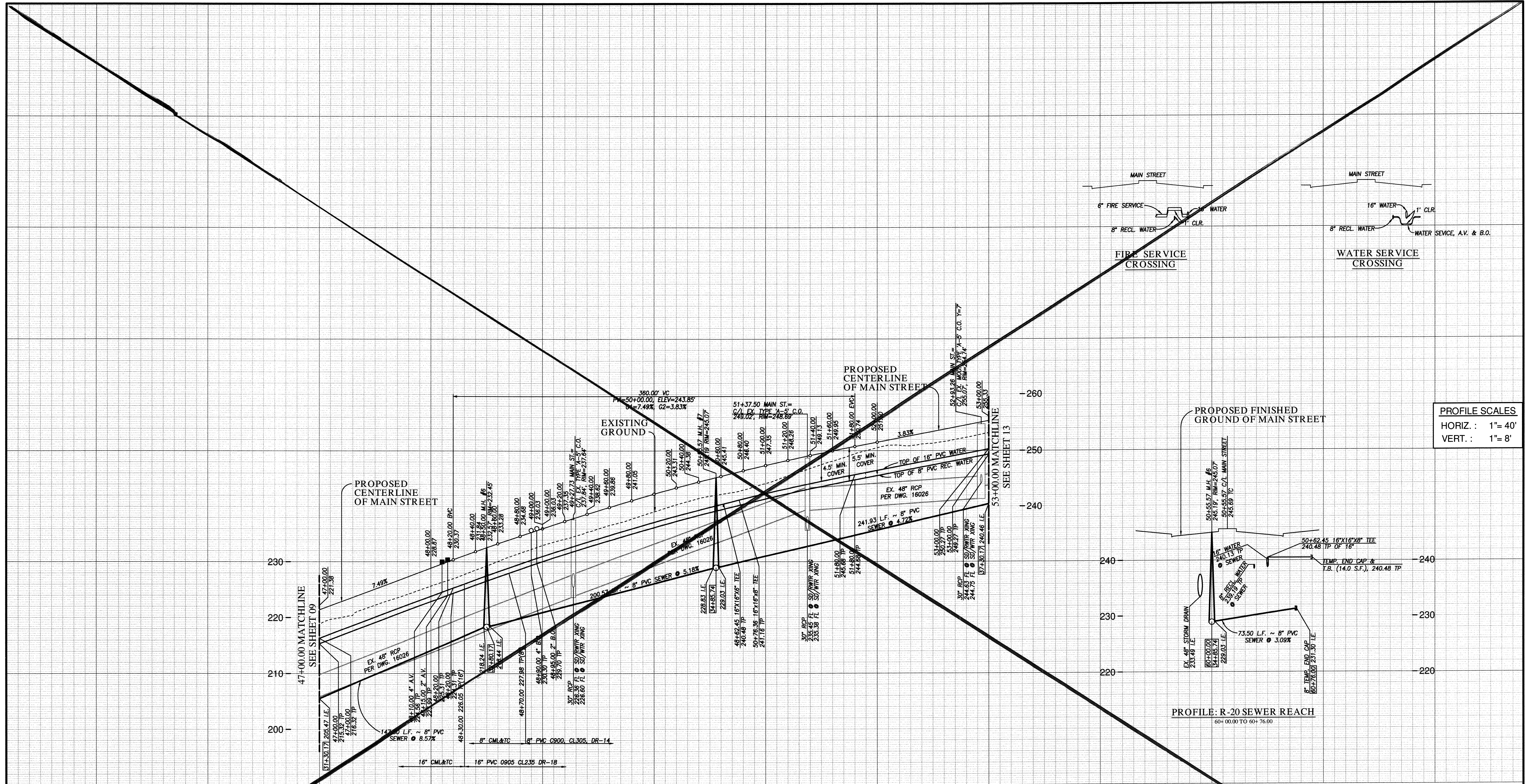
FOR ALL WATER & FIRE
 APPURTENANCE CROSSING
 SEE SHEET 11 FOR DETAILS



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 ALISA S. VIALPANDO P.E. NO.: 47945		(SIGNATURE) DATE ALISA S. VIALPANDO P.E. NO.: 47945		PROJECT#: D1019-090533 PERMIT#: DEV-22-001 P.Z.: W624 & RW680 REVIEWED BY: <i>Car M. Magand</i> DATE: 02.24.2023	
CONSTRUCTION RECORD		REFERENCES		BY		DATE	
Contractor:		C.C.V. DWG. 16026		BY		DATE	
Inspector:		C.C.V. DWG. 14032		BY		DATE	
Date Completed:		C.C.V. DWG. 21045		BY		DATE	
		C.C.V. DWG. 20024		BY		DATE	
DESCRIPTION: BRASS DISK MARKED "SD CITY ENGR." IN 1/4" IRON PIPE, 1.5 MILES EAST OF INTERSECTION OF MAIN ST & HERITAGE RD TO HIGH MOUNTAIN 100' EASTERLY & PROMINENT TO HIGH BOLLINGER, 4,700' SOUTHERLY OF WATER STORAGE FACILITY. (PT. #1359 PER E.O.S. 1484) ELEV. 628.319 DATUM: NAVD '88 (NAVD '28)		SCALE		Designed By		Drawn By	
		Horizontal 1"=40'		ALISA S. VIALPANDO		D.L./G.D.	
		Vertical 1"=8'		Plans Prepared Under Supervision Of		Checked By	
				ALISA S. VIALPANDO		Y.C./A.V.	
				R.C.E. No. 47945		Submitted: 4/20/2023	
						Approved: 4/21/2023	
						By: <i>[Signature]</i>	
						Principal Civil Engineer	
						CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT	
						PUBLIC IMPROVEMENT PLANS FOR:	
						MAIN STREET (EAST OF HERITAGE ROAD)	
						CHULA VISTA TRACT NO. 16-02	
						DRAWING NO. 22001-10	
						W.O. NO. IP220003	

REPLACEMENT SHEET

O.W.D. D1019-090533
 DEV-22-001



MAIN STREET PUBLIC UTILITY PROFILE

47+00.00 TO 53+00.00

FOR EXISTING STORM DRAIN
INFO SEE C.C.V. 16026

APPROVED FOR SEWER ONLY

Approved: 11/21/2022
By: [Signature]
Principal City Engineer



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 IN RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	

CITY "AS-BUILT"	
(SIGNATURE)	DATE
ALISA S. VIALPANDO	P.E. NO.: 47945
MY REGISTRATION EXPIRES:	DISCIPLINE CIVIL

O.W.D. "AS-BUILT"	
(SIGNATURE)	DATE
ALISA S. VIALPANDO	P.E. NO.: 47945
MY REGISTRATION EXPIRES:	DISCIPLINE CIVIL

OTAY WATER DISTRICT	
PROJECT#: D1019-090533	P.Z.: W624 & RW680
PERMIT#: DEV-22-001	
REVIEWED BY:	DATE:

NO.	OTAY WATER DISTRICT REVISIONS	App'd	Date

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	DATUM
Contractor:	C.C.V. DWG. 16026					DESCRIPTION: BRASS DISK MARKED "SD CITY ENGR." IN 3/4" IRON PIPE, 1.5 MILES EAST OF INTERSECTION OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 105' EASTERLY OF PROMONT 10' HIGH BOULDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT. #1359 PER R.O.S. 14841) ELEV. 628.319' DATUM: NAVD '88 [NAVD '29]
Inspector:	C.C.V. DWG. 14032					
Date Completed:	C.C.V. DWG. 21045					
	C.C.V. DWG. 20024					

SCALE	Designed By	Drawn By	Checked By
Horizontal 1"=40'	D.L.	D.L./G.D.	Y.C./A.V.
Vertical 1"=8'	Planned Under Supervision Of ALISA S. VIALPANDO	Date 11/21/22	R.C.E. No. 47945

Submitted:	By:	Approved:
		Principal Civil Engineer

CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT	
PUBLIC IMPROVEMENT PLANS FOR: MAIN STREET (EAST OF HERITAGE ROAD) CHULA VISTA TRACT NO. 16-02	

DRAWING NO.
22001-11

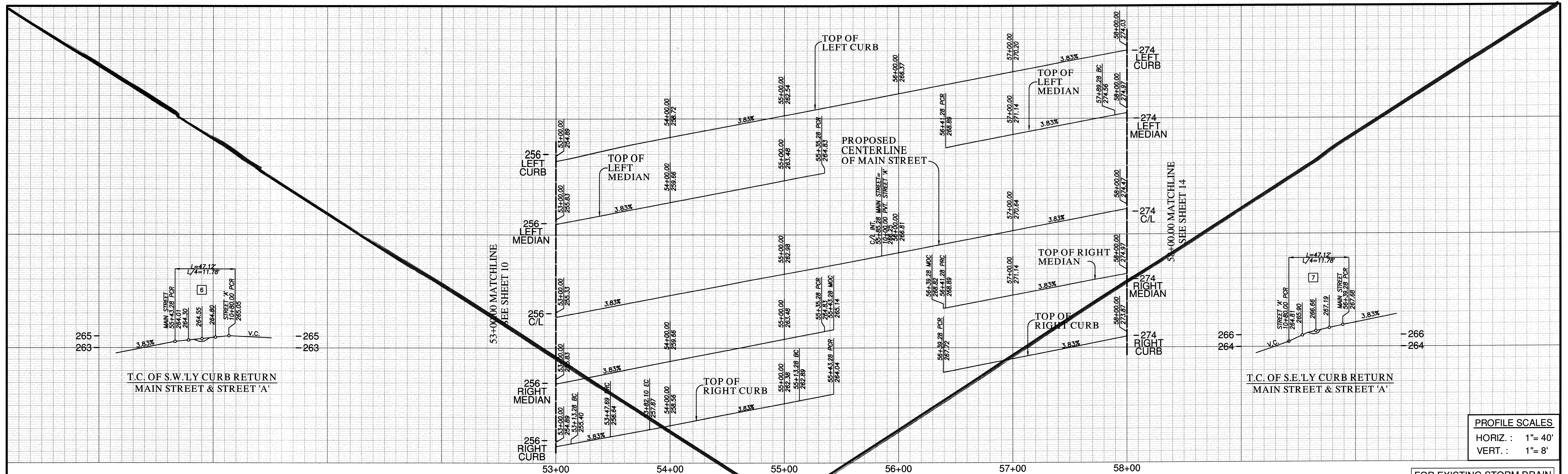
VOID

R113271&Eng/Improvement Plans/Main Street Imp/1327IP11.dwg/Nov-17-2022-23:36

O.W.D. D1019-090533
DEV-22-001

MAIN STREET EAST OF HERITAGE ROAD
PUBLIC IMPROVEMENT PLAN

W.O. NO. 22995-0012



CENTERLINE DATA

BEARING/DELTA	RADIUS	LENGTH	REMARKS
1 N 71°58'20" E		285.28'	
2 N 71°58'20" E		214.72'	

CURB DATA

BEARING/DELTA	RADIUS	LENGTH	REMARKS
1 N 71°58'20" E	500.00'	6" TYPE 'G' C&G	
2 N 71°58'20" E	13.28'	6" TYPE 'G' C&G	
3 13°15'41"	150.00'	6" TYPE 'G' C&G	
4 13°15'41"	150.00'	6" TYPE 'G' C&G	
5 N 71°58'20" E	161.18'	6" TYPE 'G' C&G	
6 90°00'00"	30.00'	6" TYPE 'G' C&G	
7 90°00'00"	30.00'	6" TYPE 'G' C&G	
8 N 71°58'20" E	160.72'	6" TYPE 'G' C&G	
9 N 71°58'20" E	235.28'	6" TYPE 'B-1' CURB	
10 180°00'00"	8.00'	6" TYPE 'B-1' CURB	
11 N 71°58'20" E	235.28'	6" TYPE 'B-1' CURB	
12 2°02'49"	300.00'	6" TYPE 'B-1' CURB	
13 N 71°58'20" E	148.60'	6" TYPE 'B-1' CURB	
14 180°00'00"	2.00'	6" TYPE 'B-1' CURB	
15 N 71°58'20" E	158.72'	6" TYPE 'B-1' CURB	

WATER DATA

BEARING/DELTA	RADIUS	LENGTH	REMARKS
1 N 71°58'20" E	500.00'	16" PVC 624P22	*CL 235, C905, DR-18

RECYCLED WATER DATA

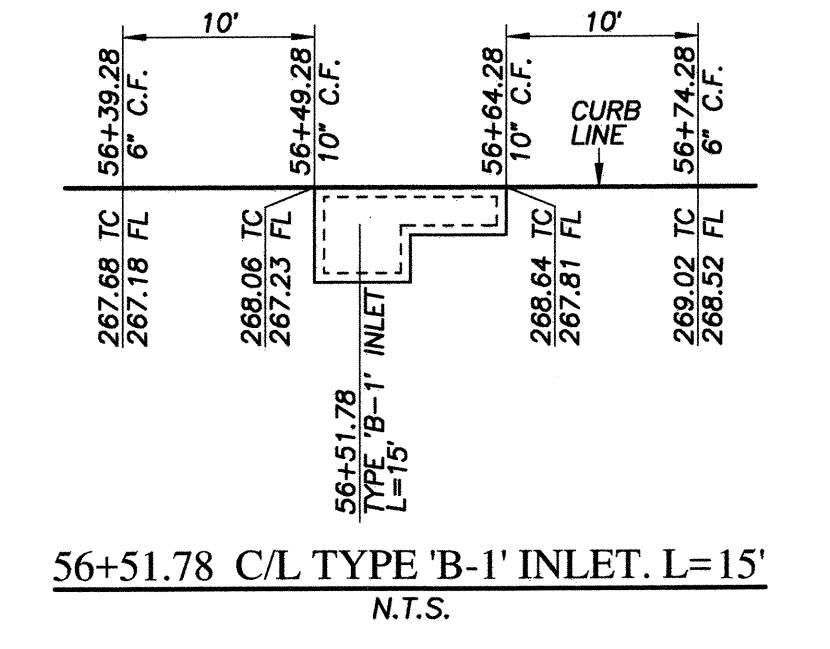
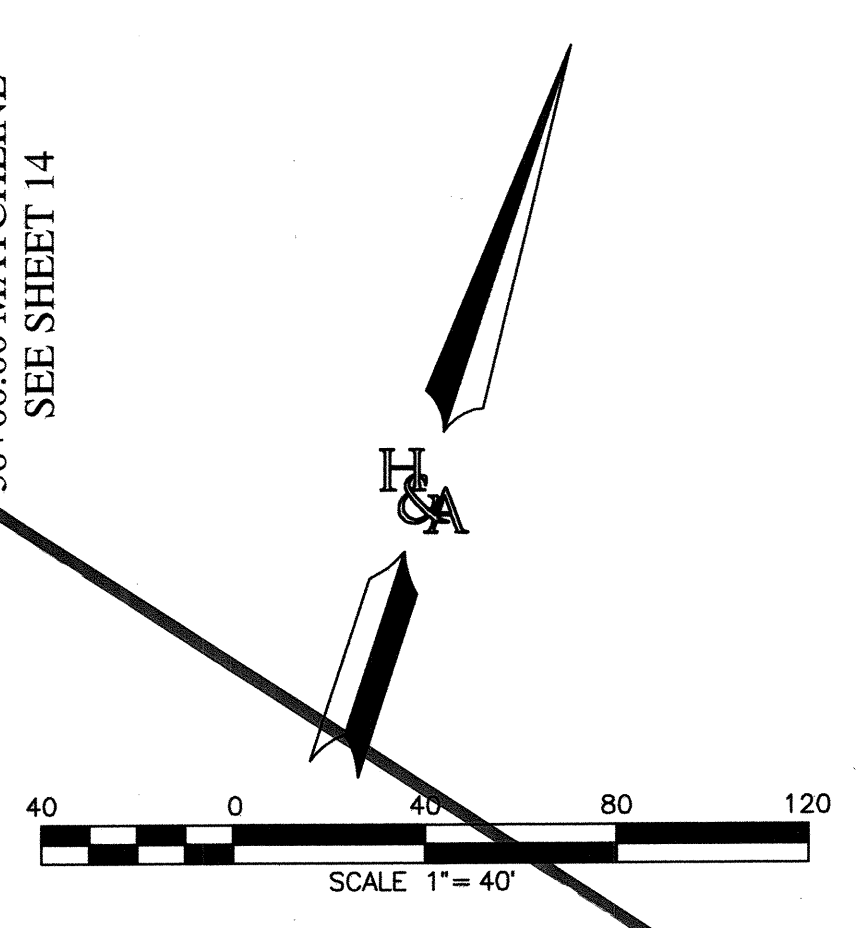
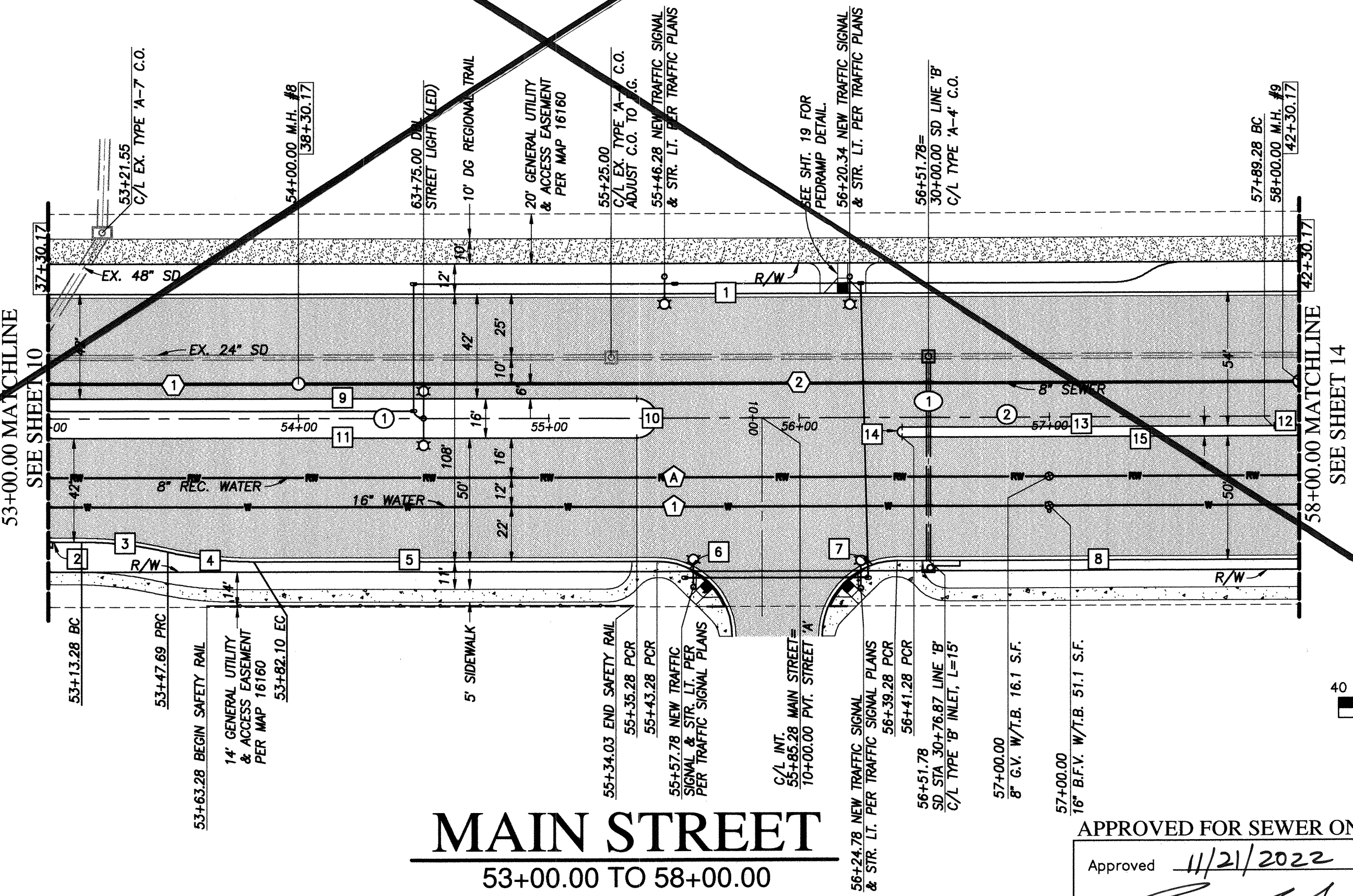
BEARING/DELTA	RADIUS	LENGTH	REMARKS
A N 71°58'20" E	500.00'	8" PVC 680P24	*CL 305, C900, DR-14

SEWER DATA

BEARING/DELTA	RADIUS	LENGTH	REMARKS
1 N 71°58'20" E	100.00'	8" PVC	
2 N 71°58'20" E	400.00'	8" PVC	

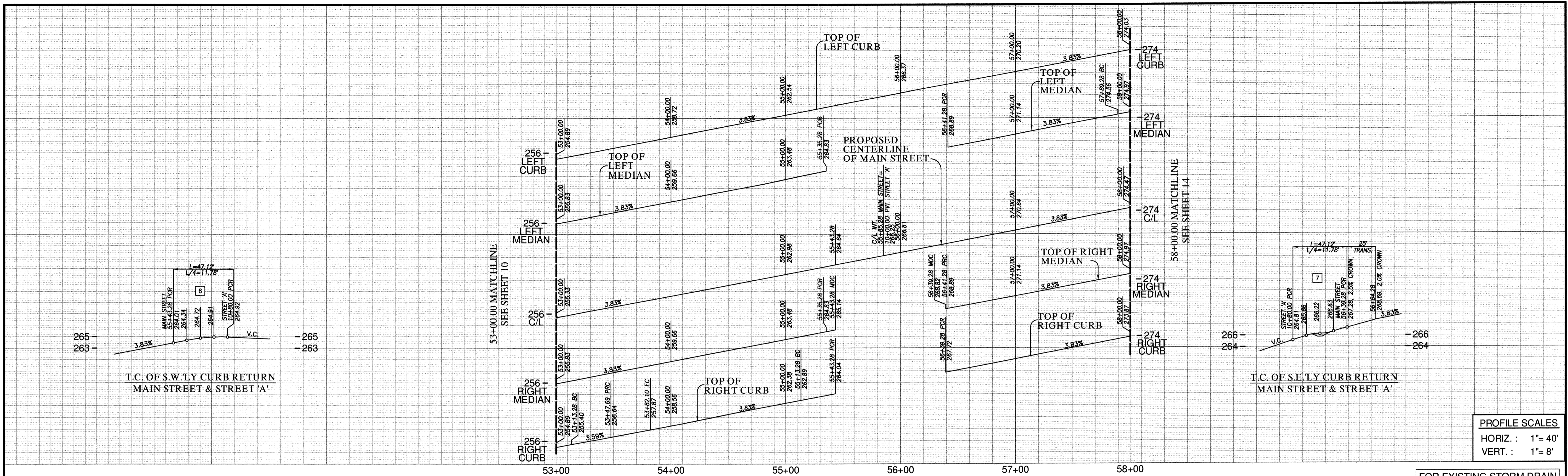
STORM DRAIN DATA

BEARING/DELTA	RADIUS	LENGTH	REMARKS
1 N 71°58'20" W	80.75'	18" RCP (15000)	



UTILITY NOTE	CITY "AS-BUILT"	O.W.D. "AS-BUILT"	OTAY WATER DISTRICT
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CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS
Contractor: C.C.V. DWG. 16026			
Inspector: C.C.V. DWG. 14032			
Drawn: C.C.V. DWG. 21045			
Completed: C.C.V. DWG. 20024			
DESCRIPTION: BRASS DISK MARKED "SD CITY ENGR." IN 3/4" IRON PIPE 1.5 MILES EAST OF INTERSECTION OF MAIN ST. & HERITAGE RD. ON ROAD MOUNTAIN 100' EASTERLY OF PROMINENT 10' HIGH BOULDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT. #1359 PER R.O.S. 14841) ELEV. 628.319 DATUM: NAVD 88 (NAVD 29)			
SCALE Horizontal 1" = 40' Vertical 1" = 8'		Designed By: <i>[Signature]</i> Drawn By: <i>[Signature]</i> Checked By: <i>[Signature]</i> D.L./G.D. Y.C./A.V. Plans Prepared Under Supervision Of ALISA S. VIALPANDO R.C.E. No. 47945	
Submitted: _____ By: _____ Planning: _____ Landscape: _____		Approved: _____ By: _____ Principal Civil Engineer	
CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT PUBLIC IMPROVEMENT PLANS FOR: MAIN STREET (EAST OF HERITAGE ROAD) CHULA VISTA TRACT NO. 16-02			
DRAWING NO. 22001-12			CITY OF CALIFORNIA CIVIL ENGINEER
C.O.W.D. D1019-090533 DEV-22-001			W.I. NO. 2395-0012

VOID



CENTERLINE DATA

BEARING/DELTA	RADIUS	LENGTH	REMARKS
1 N 71°58'20" E		285.28'	
2 N 71°58'20" E		214.72'	

CURB DATA

BEARING/DELTA	RADIUS	LENGTH	REMARKS
1 N 71°58'20" E	500.00'	6.00'	6" TYPE 'G' C&G
2 N 71°58'20" E	13.28'	6.00'	6" TYPE 'G' C&G
3 13°15'41"	150.00'	34.72'	6" TYPE 'G' C&G
4 13°15'41"	150.00'	34.72'	6" TYPE 'G' C&G
5 N 71°58'20" E	161.18'	6.00'	6" TYPE 'G' C&G
6 90°00'00"	30.00'	47.12'	6" TYPE 'G' C&G
7 90°00'00"	30.00'	47.12'	6" TYPE 'G' C&G
8 N 71°58'20" E	160.72'	6.00'	6" TYPE 'G' C&G
9 N 71°58'20" E	235.28'	6.00'	6" TYPE 'B-1' CURB
10 180°00'00"	8.00'	25.13'	6" TYPE 'B-1' CURB
11 N 71°58'20" E	235.28'	6.00'	6" TYPE 'B-1' CURB
12 2°02'49"	300.00'	10.72'	6" TYPE 'B-1' CURB
13 N 71°58'20" E	148.60'	6.00'	6" TYPE 'B-1' CURB
14 180°00'00"	2.00'	6.28'	6" TYPE 'B-1' CURB
15 N 71°58'20" E	158.72'	6.00'	6" TYPE 'B-1' CURB

WATER DATA

BEARING/DELTA	RADIUS	LENGTH	REMARKS
1 N 71°58'20" E	500.00'	16"	PVC 624P2*

RECYCLED WATER DATA

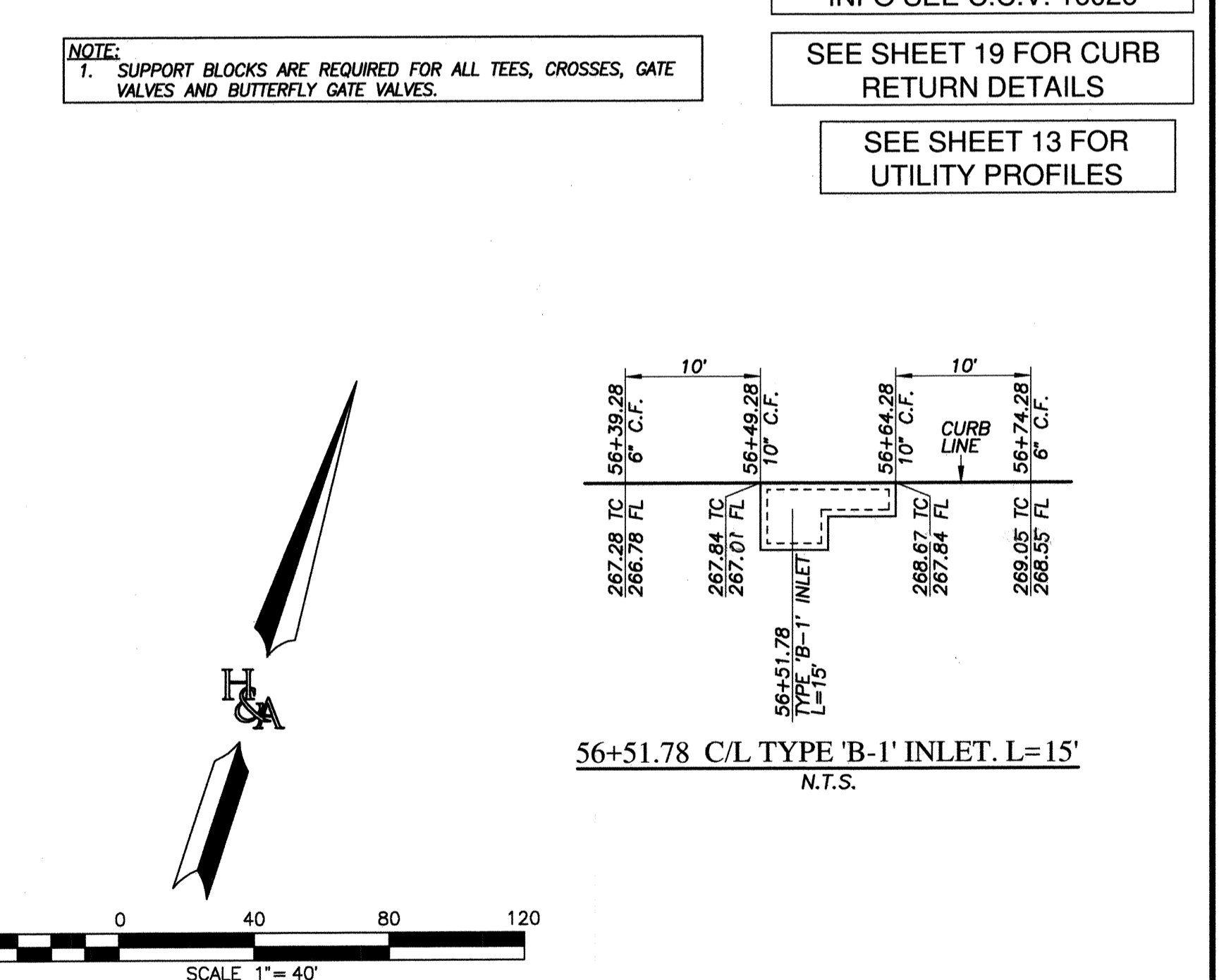
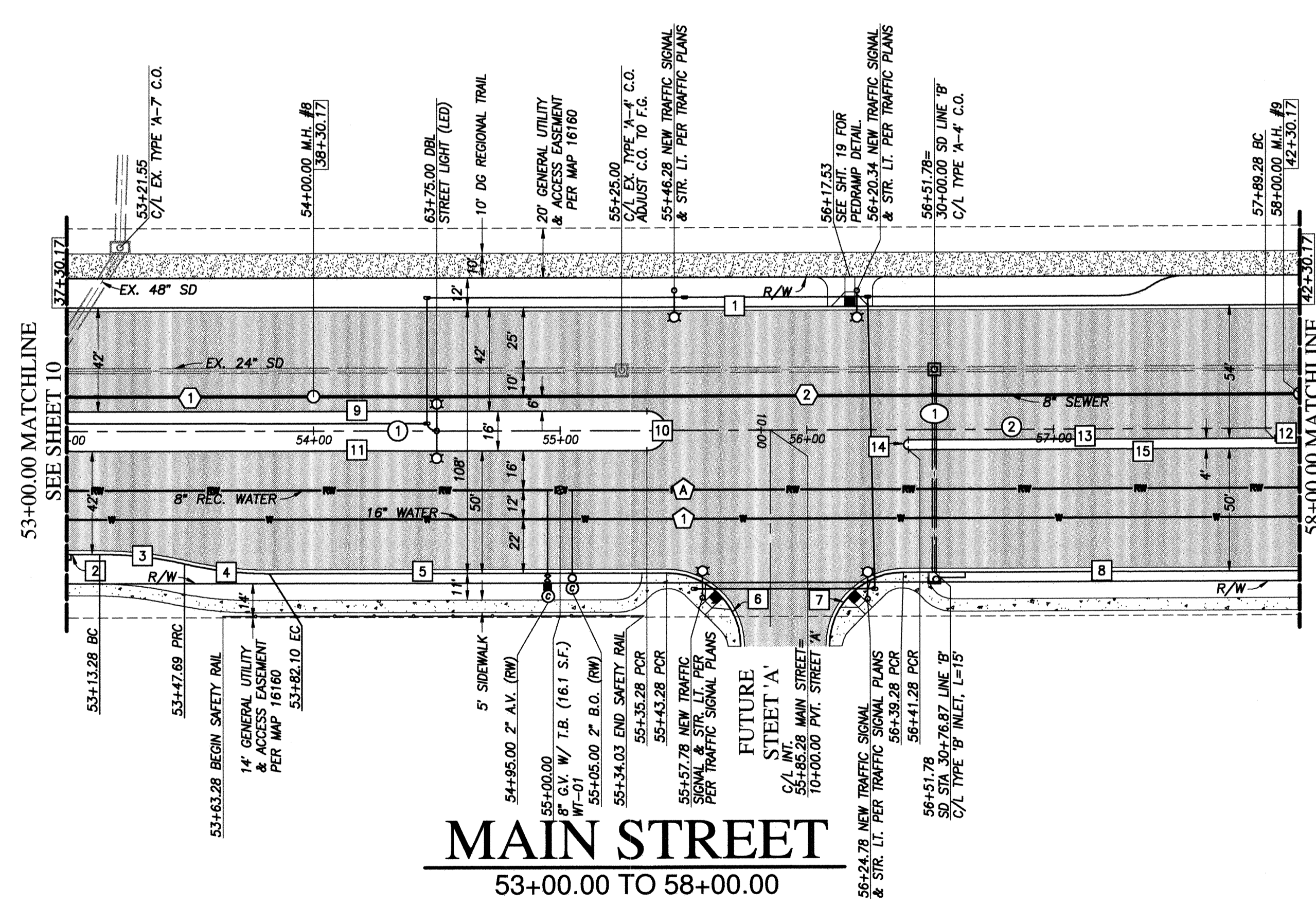
BEARING/DELTA	RADIUS	LENGTH	REMARKS
1 N 71°58'20" E	500.00'	8"	PVC 680P2*

SEWER DATA

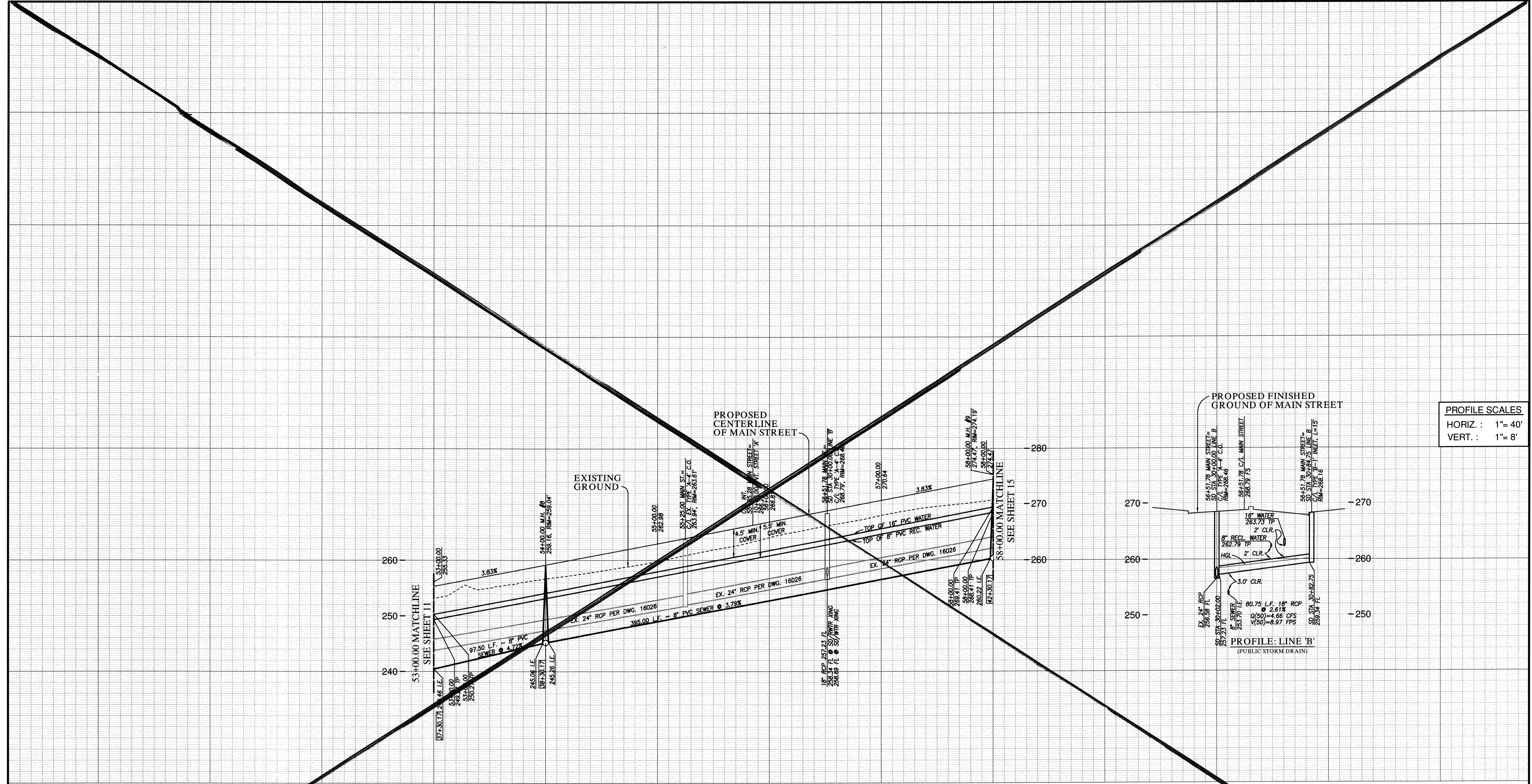
BEARING/DELTA	RADIUS	LENGTH	REMARKS
1 N 71°58'20" E	100.00'	8"	PVC
2 N 71°58'20" E	400.00'	8"	PVC

STORM DRAIN DATA

BEARING/DELTA	RADIUS	LENGTH	REMARKS
1 N 18°01'40" W	80.75'	18"	RCP (1500D)



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" DATE: _____ (SIGNATURE) ALISA S. WALPANDO P.E. NO.: 47945	O.W.D. "AS-BUILT" DATE: _____ (SIGNATURE) ALISA S. WALPANDO P.E. NO.: 47945	OTAY WATER DISTRICT PROJECT#: D1019-090533 PERMIT#: DEV-22-001 P.Z.: W624 & RW680 DATE: 02.24.2023 REVIEWED BY: <i>Alisa S. Walpando</i>	NO. OTAY WATER DISTRICT REVISIONS App'd Date	CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT PUBLIC IMPROVEMENT PLANS FOR: MAIN STREET (EAST OF HERITAGE ROAD) CHULA VISTA TRACT NO. 16-02	DRAWING NO. 22001-12 W.O. No. IP220003
--	---	---	--	---	---	---



PROFILE SCALES
 HORIZ : 1" = 40'
 VERT : 1" = 8'

MAIN STREET PUBLIC UTILITY PROFILE
 53+00.00 TO 58+00.00

FOR EXISTING STORM DRAIN
 INFO SEE C.C.V. 16026

APPROVED FOR SEWER ONLY

Approved 11/21/2022
 By [Signature]
 Principal City Engineer

NO.	OTAY WATER DISTRICT REVISIONS	App'd	Date



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
 ALISA S. VIALPANDO P.E. NO.: 47945
 MY REGISTRATION EXPIRES: DISCIPLINE CIVIL

O.W.D. "AS-BUILT"
 (SIGNATURE) DATE
 ALISA S. VIALPANDO P.E. NO.: 47945
 MY REGISTRATION EXPIRES: DISCIPLINE CIVIL

OTAY WATER DISTRICT
 PROJECT#: D1019-090533
 PERMIT#: DEV-22-001 P.Z.: W624 & RW680
 REVIEWED BY: DATE:

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd
Contractor:	C.C.V. DWG. 16026				
Inspector:	C.C.V. DWG. 14032				
Drawn Completed:	C.C.V. DWG. 21045				
	C.C.V. DWG. 20024				

DATUM	SCALE	Designed By	Drawn By	Checked By
DESCRIPTION: BRASS DISK MARKED "SD CITY ENGR." IN 3/4" IRON PIPE 1.5 MILES EAST OF INTERSECTION OF MAIN ST. & HERITAGE RD. ROCK MOUNTAIN 100' EASTERLY OF PROMINENT HIGH BOULDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT. #1359 PER D.O.S. 1484) ELEV. 628.319 DATUM: NAVD '88 (NAVD '28)	Horizontal 1"=40' Vertical 1"=8'	ALISA S. VIALPANDO	ALISA S. VIALPANDO	ALISA S. VIALPANDO

Submitted: _____
 By: _____
 Approved: _____
 By: Principal Civil Engineer

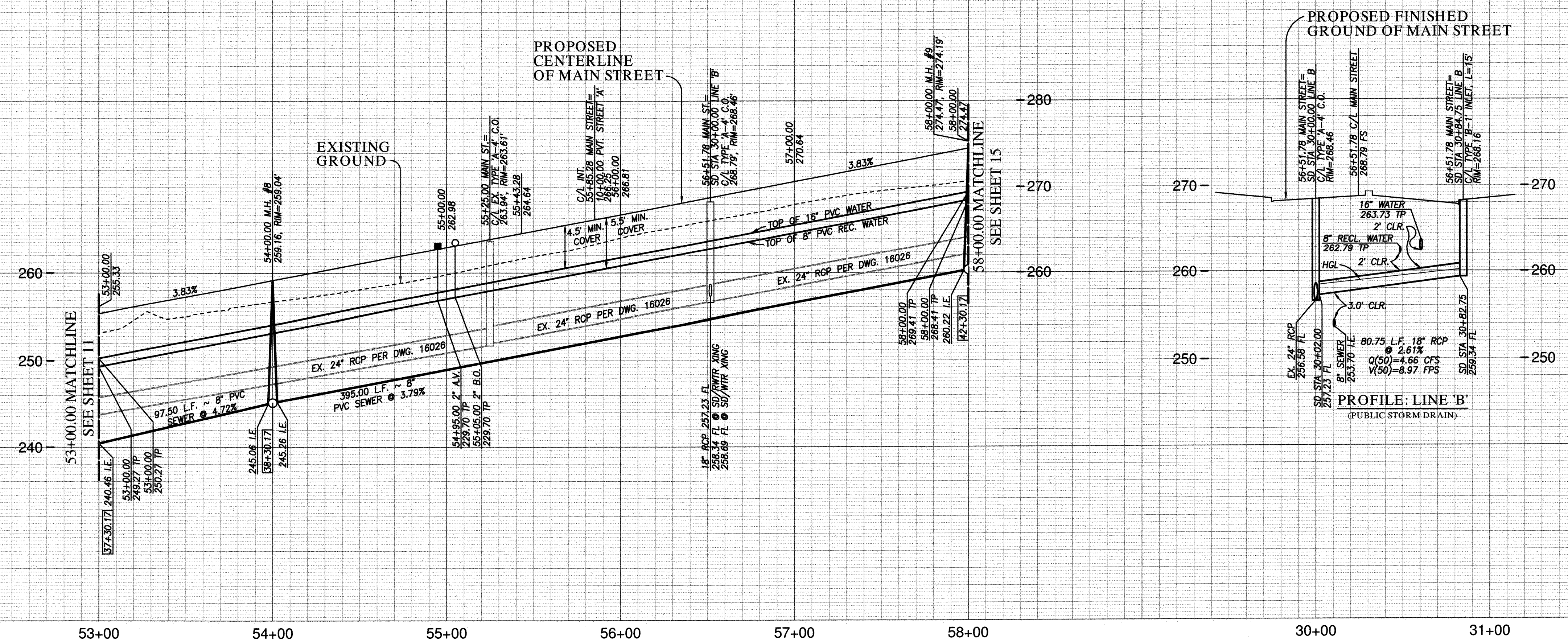
Submitted: _____
 By: _____
 Approved: _____
 By: Principal Civil Engineer

VOID

CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT
 PUBLIC IMPROVEMENT PLANS FOR:
MAIN STREET (EAST OF HERITAGE ROAD)
 CHULA VISTA TRACT NO. 16-02

DRAWING NO.
2200113
 O.W.D. D1019-090533
 DEV-22-001

R:\1327&Eng\Improvement Plans\Main Street Inp\1327IP13.dwg\Nov-18-2022-13:18



PROFILE SCALES
 HORIZ : 1" = 40'
 VERT : 1" = 8'

MAIN STREET PUBLIC UTILITY PROFILE
 53+00.00 TO 58+00.00

FOR EXISTING STORM DRAIN
 INFO SEE C.C.V. 16026

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
 ALISA S. VIALPANDO P.E. NO.: 47945
 MY REGISTRATION EXPIRES: DISCIPLINE CIVIL

O.W.D. "AS-BUILT"
 (SIGNATURE) DATE
 ALISA S. VIALPANDO P.E. NO.: 47945
 MY REGISTRATION EXPIRES: DISCIPLINE CIVIL

OTAY WATER DISTRICT
 PROJECT#: D1019-090533
 PERMIT#: DEV-22-001 P.Z.: W624 & RW680
 REVIEWED BY: *Alisa S. Vialpando* DATE: 02.24.2023

NO.	OTAY WATER DISTRICT REVISIONS	App'd	Date

CONSTRUCTION RECORD

CONTRACTOR	REFERENCES	BY	REVISIONS	Date	App'd	DATUM
	C.C.V. DWG. 16026					
	C.C.V. DWG. 14032					
	C.C.V. DWG. 21045					
	C.C.V. DWG. 20024					

DESCRIPTION: BRASS DISK MARKED "SD CITY ENGR." IN 3/4" IRON PIPE 1.5 MILES EAST OF INTERSECTION OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROMINENT 10' HIGH BOULDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT. #1359 PER R.O.S. 14841) ELEV. 628.319
 DATUM: NAVD '88 INVD '20

SCALE
 Horizontal 1"=40'
 Vertical 1"=8'

Designed By: *Alisa S. Vialpando*
 Drawn By: *Y.C./A.V.*
 Checked By: *Y.C./A.V.*
 Submitted: 4/20/2023
 Approved: 4/21/2023
 By: *Alisa S. Vialpando*
 Planning: *Alisa S. Vialpando* R.C.E. No. 47945

Submitted: 4/20/2023
 Approved: 4/21/2023
 By: *Alisa S. Vialpando*
 Planning: *Alisa S. Vialpando* R.C.E. No. 47945

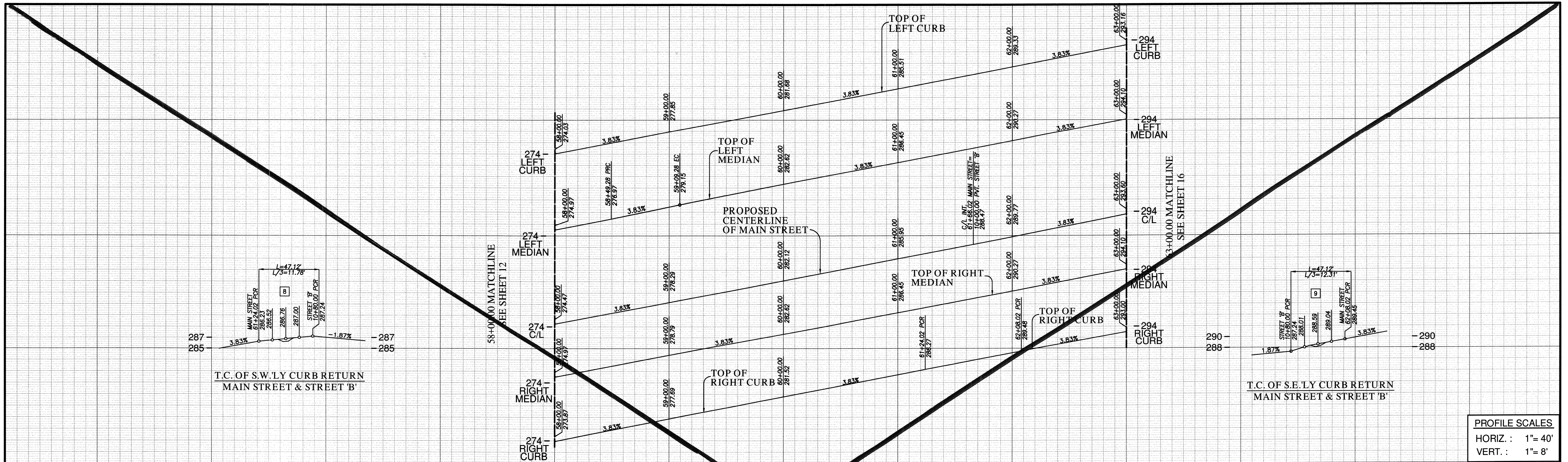
CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT
 PUBLIC IMPROVEMENT PLANS FOR:
MAIN STREET (EAST OF HERITAGE ROAD)
 CHULA VISTA TRACT NO. 16-02

DRAWING NO.
22001-13
 W.O. No. IP220003



REPLACEMENT SHEET

O.W.D. D1019-090533
 DEV-22-001



PROFILE SCALES
 HORIZ. : 1" = 40'
 VERT. : 1" = 8'

CENTERLINE DATA

BEARING/DELTA	RADIUS	LENGTH	REMARKS
1 N 71°58'20" E		500.00'	

CURB DATA

BEARING/DELTA	RADIUS	LENGTH	REMARKS
1 N 71°58'20" E		500.00'	6" TYPE 'G' C&G
2 N 71°58'20" E		91.98'	6" TYPE 'G' C&G
3 N 71°58'20" E		324.02'	6" TYPE 'G' C&G
4 N 71°58'20" E		500.00'	6" TYPE 'B-1' CURB
5 9°29'20"	300.00'	49.68'	6" TYPE 'B-1' CURB
6 11°32'09"	300.00'	60.40'	6" TYPE 'B-1' CURB
7 N 71°58'20" E		390.72'	6" TYPE 'B-1' CURB
8 90°00'00"	30.00'	47.12'	6" TYPE 'G' C&G
9 90°00'00"	30.00'	47.12'	6" TYPE 'G' C&G

WATER DATA

BEARING/DELTA	RADIUS	LENGTH	REMARKS
1 N 71°58'20" E		500.00'	16" PVC 624P2*

*CL 235, C905, DR-18

RECYCLED WATER DATA

BEARING/DELTA	RADIUS	LENGTH	REMARKS
A N 71°58'20" E		500.00'	8" PVC 680P2*

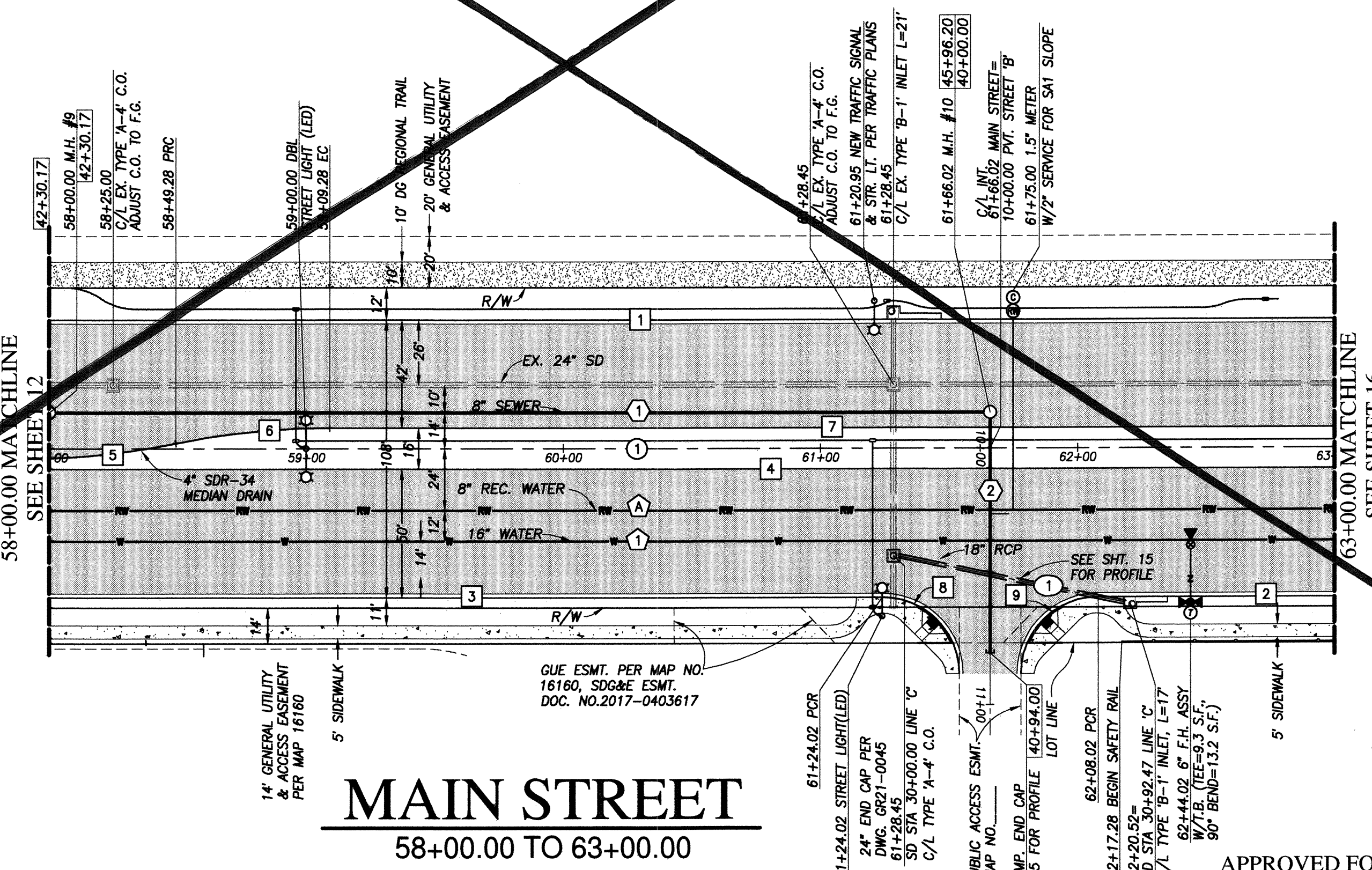
*CL 305, C900, DR-14

SEWER DATA

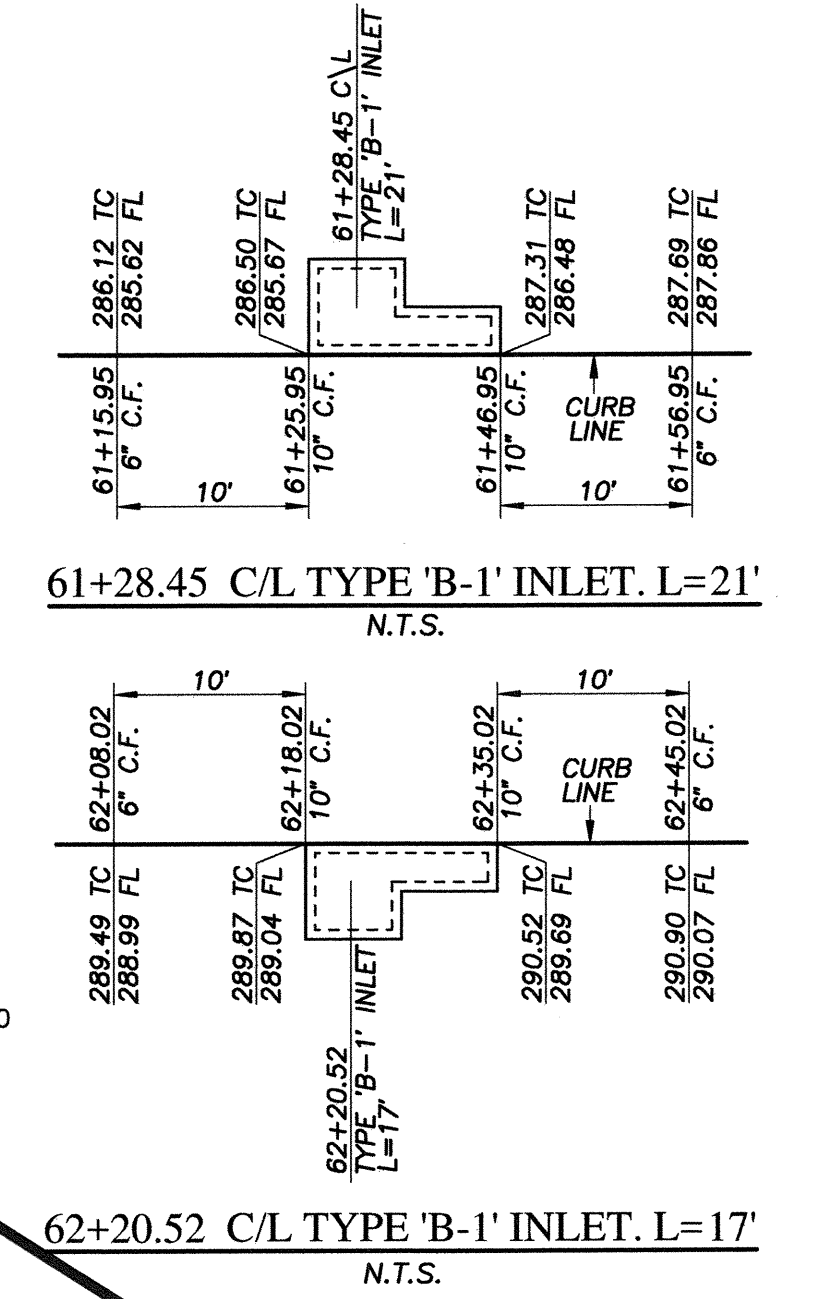
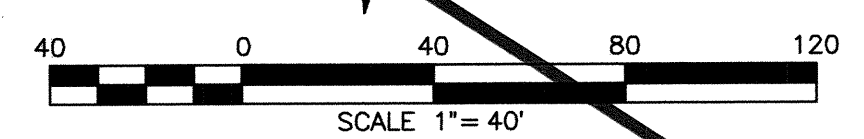
BEARING/DELTA	RADIUS	LENGTH	REMARKS
1 N 71°58'20" E		366.02'	8" PVC
2 N 18°01'40" W		94.00'	8" PVC

STORM DRAIN DATA

BEARING/DELTA	RADIUS	LENGTH	REMARKS
1 N 83°40'42" E		80.00'	18" RCP (15000)



MAIN STREET
 58+00.00 TO 63+00.00



APPROVED FOR SEWER ONLY

Approved: 11/21/2022
 By: *[Signature]*
 Principal City Engineer

NO.	OTAY WATER DISTRICT REVISIONS	App'd	Date

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 ALISA S. VALPANDO P.E. NO.: 47945	(SIGNATURE) DATE ALISA S. VALPANDO P.E. NO.: 47945	PROJECT#: D1019-090533 PERMIT#: DEV-22-001 P.Z.: W624 & RW680
CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS
Contractor: C.C.V. DWG. 16026			
Inspector: C.C.V. DWG. 14032			
D. Completed: C.C.V. DWG. 21045			
	C.C.V. DWG. 20024		

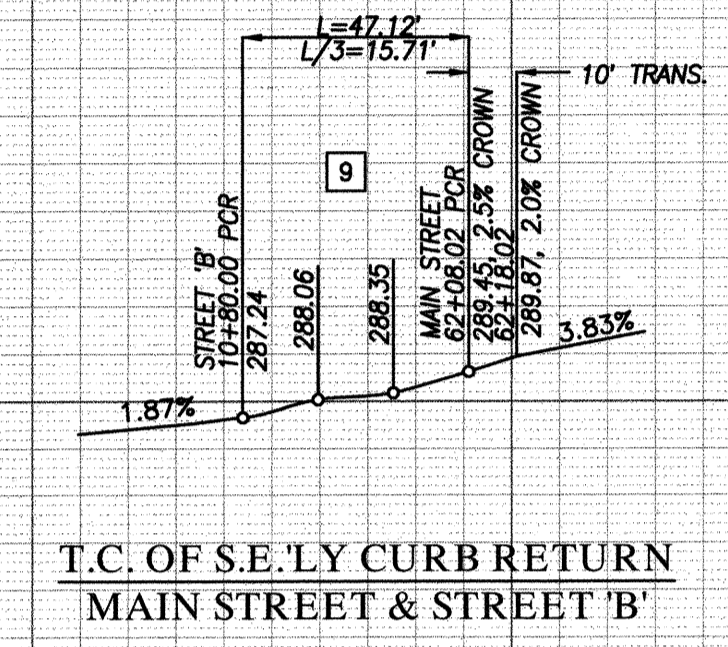
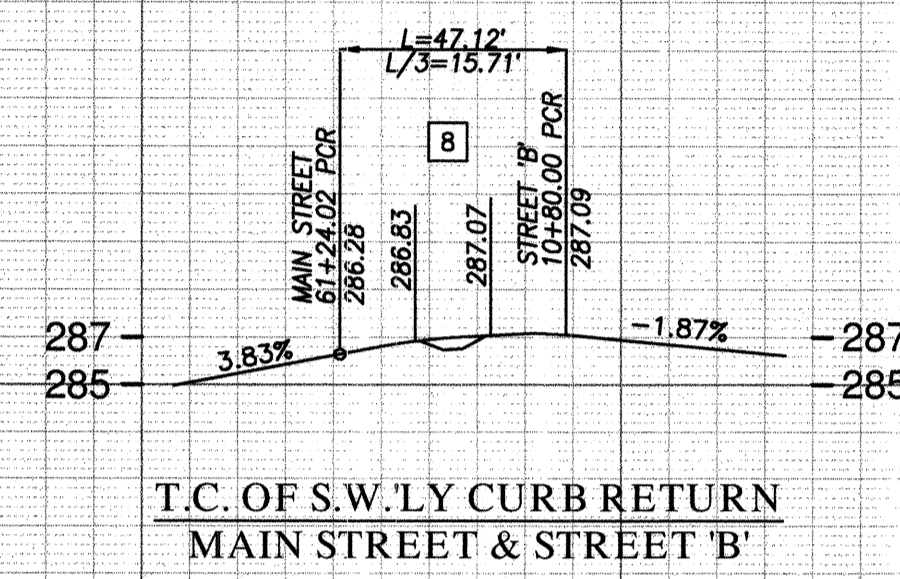
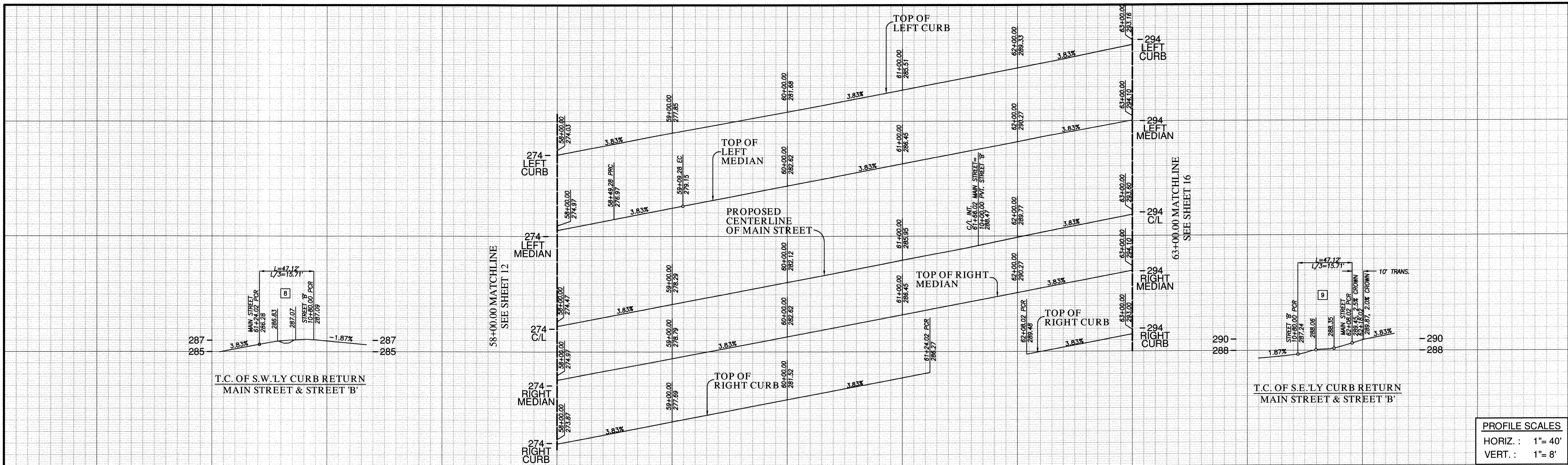
SCALE	Designed By	Drawn By	Checked By	Submitted:	Approved:	CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT	DRAWING NO.
Horizontal 1"=40' Vertical 1"=8'	Alisa S. Valpando	Plaps Prepared Under Supervision Of Date 11/18/22 ALISA S. VALPANDO R.C.E. No. 47945			By: <i>[Signature]</i> Principal Civil Engineer	PUBLIC IMPROVEMENT PLANS FOR: MAIN STREET (EAST OF HERITAGE ROAD) CHULA VISTA TRACT NO. 16-02	22001-14

VOID

R11327&Eng/Improvement Plans/Main Street Imp/1327IP14.dwg/Nov-18-2022-13:50

W.O. NO. 2395-0012

O.W.D. D1019-090533
DEV-22-001



PROFILE SCALES
 HORIZ : 1"= 40'
 VERT : 1"= 8'

CENTERLINE DATA			
BEARING/Delta	RADIUS	LENGTH	REMARKS
1 N 71°58'20" E	500.00'	500.00'	

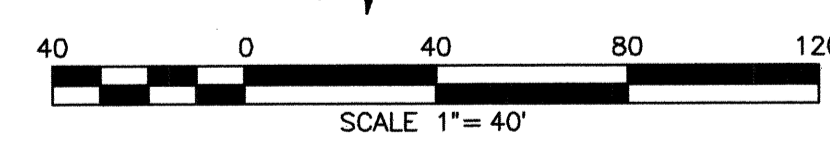
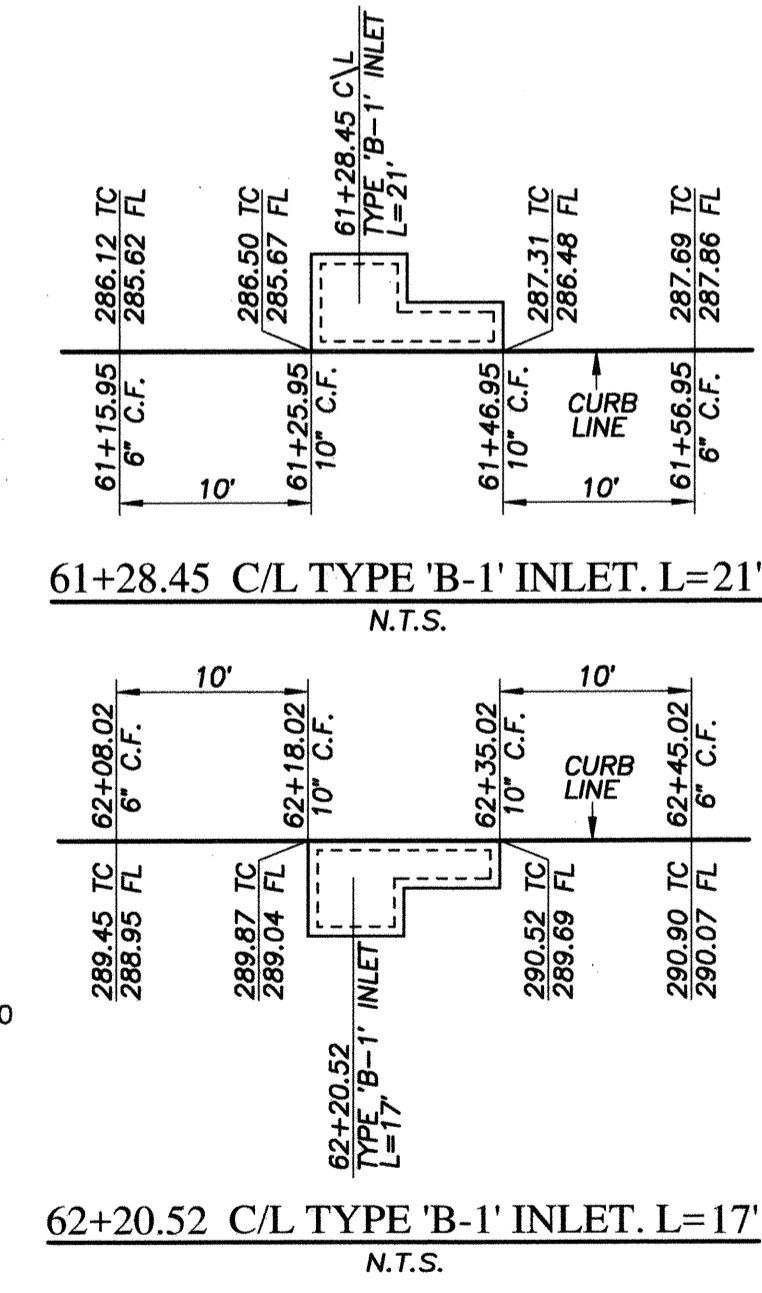
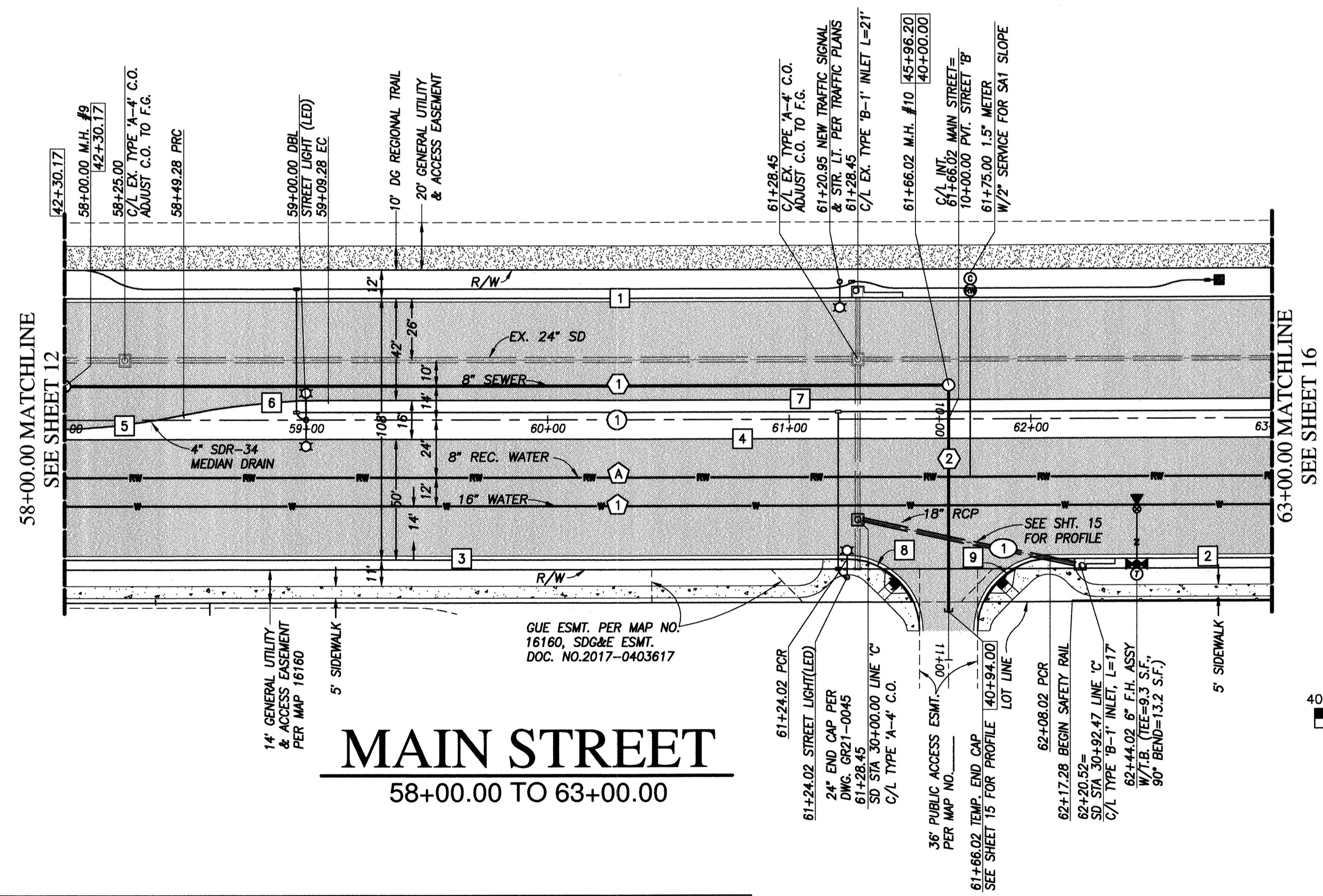
CURB DATA			
BEARING/Delta	RADIUS	LENGTH	REMARKS
1 N 71°58'20" E	500.00'	500.00'	6" TYPE 'G' C&G
2 N 71°58'20" E	91.98'	91.98'	6" TYPE 'G' C&G
3 N 71°58'20" E	324.02'	324.02'	6" TYPE 'G' C&G
4 N 71°58'20" E	500.00'	500.00'	6" TYPE 'B-1' CURB
5 9°29'20"	300.00'	49.68'	6" TYPE 'B-1' CURB
6 11°32'09"	300.00'	60.40'	6" TYPE 'B-1' CURB
7 N 71°58'20" E	60.40'	390.72'	6" TYPE 'B-1' CURB
8 90°00'00"	30.00'	47.12'	6" TYPE 'G' C&G
9 90°00'00"	30.00'	47.12'	6" TYPE 'G' C&G

WATER DATA			
BEARING/Delta	RADIUS	LENGTH	REMARKS
1 N 71°58'20" E	500.00'	500.00'	16" PVC 624P2* *CL 235, C905, DR-18

RECYCLED WATER DATA			
BEARING/Delta	RADIUS	LENGTH	REMARKS
A N 71°58'20" E	500.00'	500.00'	8" PVC 680P2* *CL 305, C900, DR-14

SEWER DATA			
BEARING/Delta	RADIUS	LENGTH	REMARKS
1 N 71°58'20" E	366.02'	366.02'	8" PVC
2 N 18°01'40" W	94.00'	94.00'	8" PVC

STORM DRAIN DATA			
BEARING/Delta	RADIUS	LENGTH	REMARKS
1 N 83°40'42" E	89.95'	89.95'	18" RCP (15000)



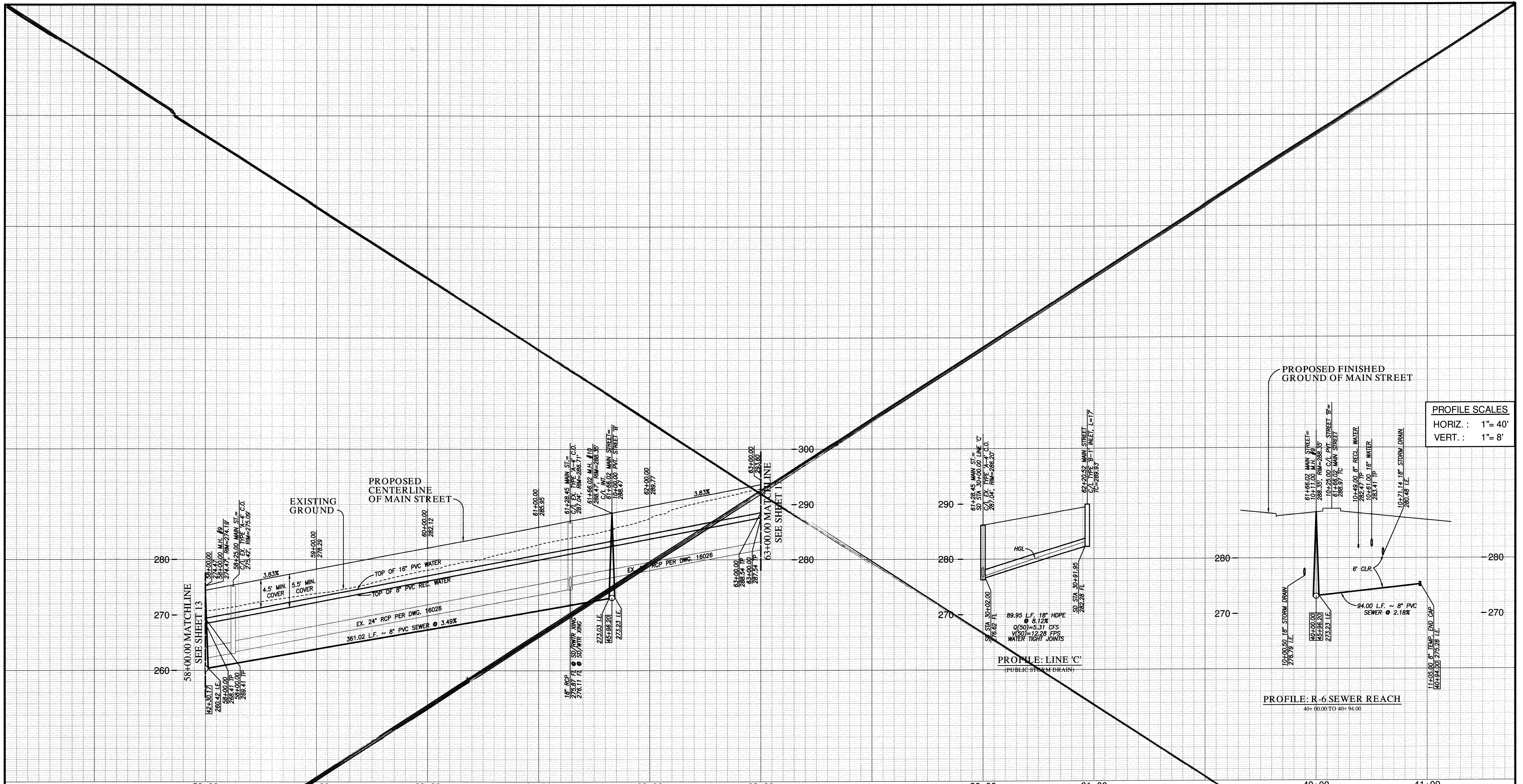
UTILITY NOTE ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.		CITY "AS-BUILT" (SIGNATURE) DATE ALISA S. VALPANDO P.E. NO.: 47945 MY REGISTRATION EXPIRES: DISCIPLINE CIVIL		O.W.D. "AS-BUILT" (SIGNATURE) DATE ALISA S. VALPANDO P.E. NO.: 47945 MY REGISTRATION EXPIRES: DISCIPLINE CIVIL		OTAY WATER DISTRICT PROJECT#: D1019-090533 PERMIT#: DEV-22-001 P.Z.: W624 & RW680 REVIEWED BY: <i>Cam M. Myford</i> DATE: 02.24.2024		NO. OTAY WATER DISTRICT REVISIONS App'd Date 	
CONSTRUCTION RECORD Contractor: C.C.V. DWG. 16026 Inspector: C.C.V. DWG. 14032 Date Completed: C.C.V. DWG. 21045 C.C.V. DWG. 20024		REFERENCES BY REVISIONS Date App'd DATUM DESCRIPTION: BRASS DISK MARKED "SD CITY ENGR" IN 3/4" IRON PIPE, 1/8 MILES EAST OF INTERSECTION OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN TOP, EASTERLY OF PROMINENT 10' HIGH BOULDER & 1700' SOUTHERLY OF PROMINENT 10' HIGH BOULDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT. #1359 PER S.D.S. 1484) ELEV. 628.319 DATUM: NAVD '88 (NAVD '23)		SCALE Horizontal 1"=40' Vertical 1"=8' Designed By: ALISA S. VALPANDO Drawn By: D.L./G.D. Checked By: Y.C./A.V. Plans Prepared Under Supervision Of: ALISA S. VALPANDO Date: 2/21/23 R.C.E. No. 47945		Submitted: 1/20/2023 Approved: 4/21/2023 Principal Civil Engineer		CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT PUBLIC IMPROVEMENT PLANS FOR: MAIN STREET (EAST OF HERITAGE ROAD) CHULA VISTA TRACT NO. 16-02 DRAWING NO. 22001-14 W.O. NO. IP220003	

REPLACEMENT SHEET

O.W.D. D1019-090533
 DEV-22-001

MAIN STREET EAST OF HERITAGE ROAD PUBLIC IMPROVEMENT PLAN

R:\132716\Eng\Improvement Plans\Main Street Imp\132716\14.dwg\Feb-22-2023-1449



MAIN STREET PUBLIC UTILITY PROFILE

58+00.00 TO 63+00.00

PROFILE SCALES
 HORIZ. : 1" = 40'
 VERT. : 1" = 8'

FOR EXISTING STORM DRAIN
 INFO SEE C.C.V. 16026

APPROVED FOR SEWER ONLY

Approved: 11/21/2022
 By: [Signature]
 Principal City Engineer

NO.	OTAY WATER DISTRICT REVISIONS	App'd	Date



HUNSAKER & ASSOCIATES
 SAN DIEGO, INC.
 PLANNING: 9707 Waples Street
 ENGINEERING: San Diego, Ca. 92121
 SURVEYING: PH(619)558-4500 FX(619)558-1414

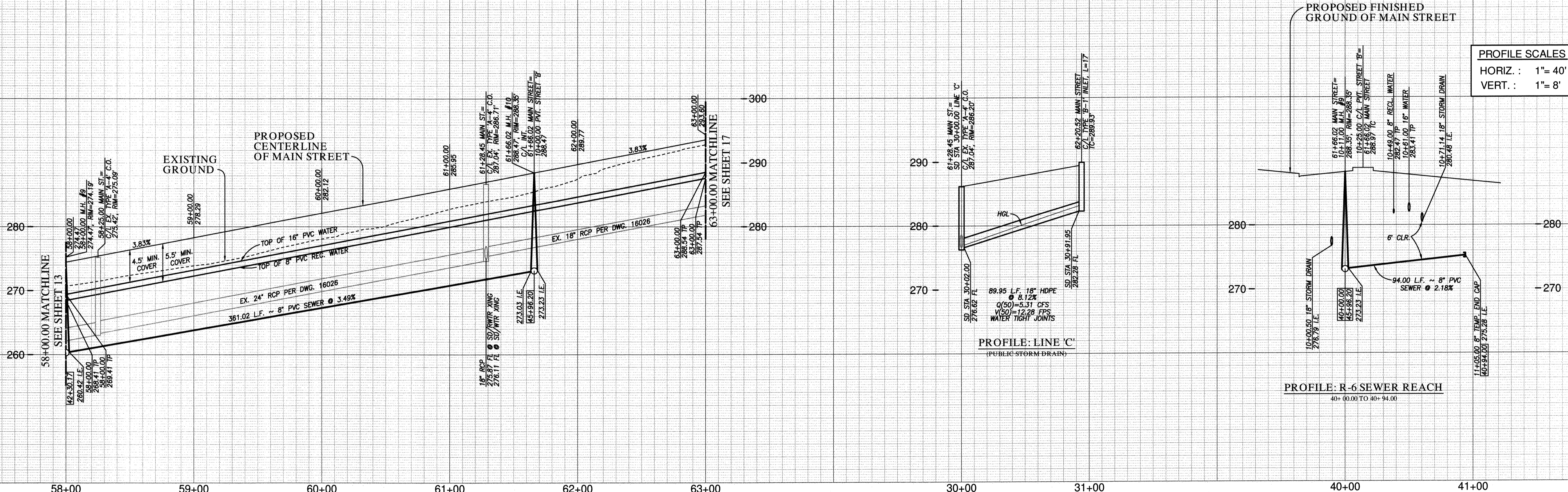
UTILITY NOTE				CITY "AS-BUILT"				O.W.D. "AS-BUILT"				OTAY WATER DISTRICT				
ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.				(SIGNATURE)	DATE	(SIGNATURE)	DATE	PROJECT#:	D.L.	Drawn By	Checked By	Submitted:	CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT			
				ALISA S. VALPANDO	P.E. NO.: 47945	ALISA S. VALPANDO	P.E. NO.: 47945	DEV-22-001	P.Z.: W624 & RW680	By:	By:	By:	By:	By:	PUBLIC IMPROVEMENT PLANS FOR: MAIN STREET (EAST OF HERITAGE ROAD) CHULA VISTA TRACT NO. 16-02	
CONSTRUCTION RECORD				REFERENCES				DATUM				SCALE				
Contractor:	C.C.V. DWG. 16026	BY:	REVISIONS	DATE	App'd	DESCRIPTION: BRASS DISK MARKED "SD CITY ENGR." IN 3/4" IRON PIPE, 1.5 MILES EAST OF INTERSECTION OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERN OF PROMONT TO HIGH BOLLER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT. #1359 PER R.O.S. 1484) ELEV. 828.319 (DATE: MARCH 26, 1967)	Horizontal	Designed By	D.L.	Drawn By	Checked By	Submitted:	DRAWING NO. 22001-15			
Inspector:	C.C.V. DWG. 14032	BY:	REVISIONS	DATE	App'd	Vertical	Plans Prepared Under Supervision Of	1"=40'	ALISA S. VALPANDO	Date	11/21/22	By:	O.W.D. D1019-090533			
Date Completed:	C.C.V. DWG. 21045	BY:	REVISIONS	DATE	App'd	1"=8'	ALISA S. VALPANDO	1"=40'	R.C.E. No.	47945	By:	DEV-22-001				
	C.C.V. DWG. 20024	BY:	REVISIONS	DATE	App'd			1"=8'			By:					

VOID

R11527&EngImprovement Plans/Main Street Imp1327P15.dwg/Nov-17-2022-23:46

MAIN STREET EAST OF HERITAGE ROAD PUBLIC IMPROVEMENT PLAN

W.O. NO. 2395-0012



PROFILE SCALES
HORIZ : 1" = 40'
VERT : 1" = 8'

MAIN STREET PUBLIC UTILITY PROFILE

58+00.00 TO 63+00.00

FOR EXISTING STORM DRAIN
INFO SEE C.C.V. 16026

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) ALISA S. VIALPANDO	(SIGNATURE) ALISA S. VIALPANDO	PROJECT# D1019-090533 PERMIT# DEV-22-001 P.Z.: W624 & RW680	DATE 02/21/23	DATE 02/21/23
	P.E. NO.: 47945	P.E. NO.: 47945	DESIGNED BY ALISA S. VIALPANDO	DATE 02/21/23	DATE 02/21/23
MY REGISTRATION EXPIRES:	DISCIPLINE CIVIL	DISCIPLINE CIVIL	DATE 02/21/23		

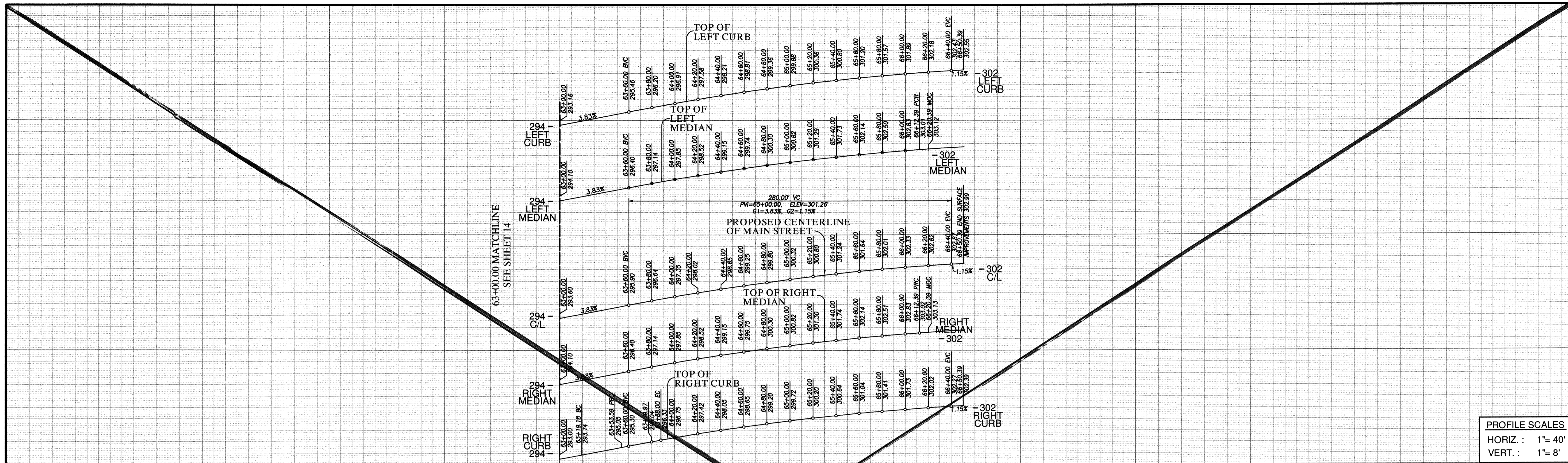
NO.	OTAY WATER DISTRICT REVISIONS	App'd	Date

HUNSAKER & ASSOCIATES
SAN DIEGO, INC.

PLANNING 9707 Waples Street
ENGINEERING San Diego, Ca. 92121
SURVEYING PH: (619) 558-4500 FX: (619) 558-1414

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	DATUM	SCALE	Designed By	Drawn By	Checked By	Submitted	Approved	CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT	DRAWING NO.
Contractor: _____	C.C.V. DWG. 16026					DESCRIPTION: BRASS DISK MARKED "SD CITY ENGR." IN 3/4" IRON PIPE 1.5 MILES EAST OF INTERSECTION OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROMONT TO HIGH BOLLIDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT. #1359 PER S.O.S. 1484) ELEV. 828.319	Horizontal 1"=40' Vertical 1"=8'	ALISA S. VIALPANDO	ALISA S. VIALPANDO	ALISA S. VIALPANDO	4/20/2023	4/21/2023	PLANNING MAIN STREET (EAST OF HERITAGE ROAD) CHULA VISTA TRACT NO. 16-02	22001-15
Inspector: _____	C.C.V. DWG. 14032													
Date Completed: _____	C.C.V. DWG. 21045													
	C.C.V. DWG. 20024													

REPLACEMENT SHEET



PROFILE SCALES
HORIZ. : 1"= 40'
VERT. : 1"= 8'

FOR EXISTING STORM DRAIN
INFO SEE C.C.V. 16026

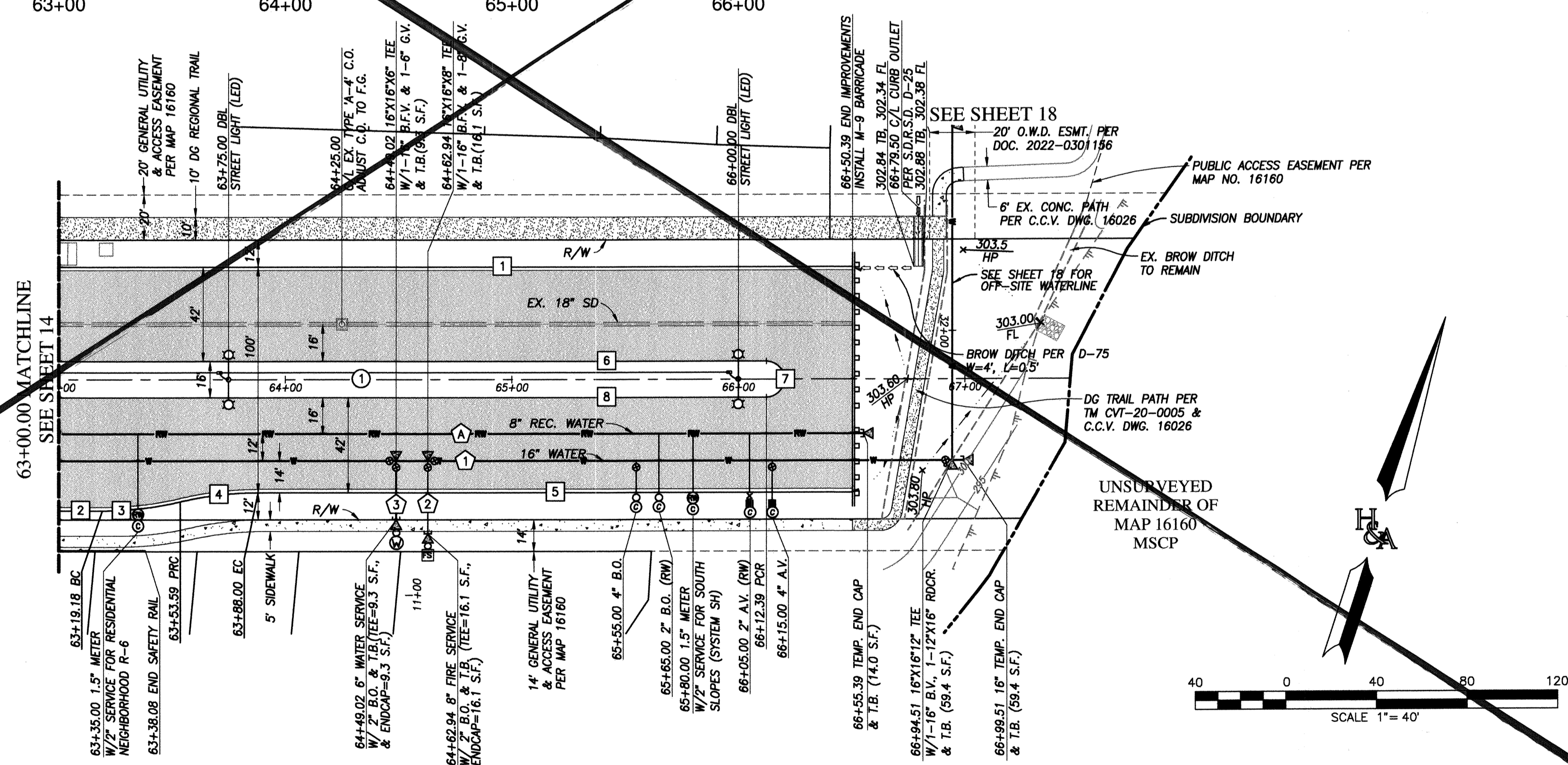
SEE SHEET 17 FOR
UTILITY PROFILES

CENTERLINE DATA				
BEARING/Delta	RADIUS	LENGTH	REMARKS	
1 N 71°58'20" E		350.39'		

CURB DATA				
BEARING/Delta	RADIUS	LENGTH	REMARKS	
1 N 71°58'20" E		350.39'	6" TYPE 'G' C&G	
2 N 71°58'20" E		350.39'	6" TYPE 'G' C&G	
3 13°15'41"	150.00'	19.18'	6" TYPE 'G' C&G	
4 13°15'41"	150.00'	34.72'	6" TYPE 'G' C&G	
5 N 71°58'20" E		262.39'	6" TYPE 'G' C&G	
6 N 71°58'20" E		312.39'	6" TYPE 'B-1' CURB	
7 180°00'00"	8.00'	25.13'	6" TYPE 'B-1' CURB	
8 N 71°58'20" E		312.39'	6" TYPE 'B-1' CURB	

WATER DATA				
BEARING/Delta	RADIUS	LENGTH	REMARKS	
1 N 71°58'20" E		399.51'	16" PVC 624P2*	
2 N 18°01'40" W		32.00'	6" PVC 624P2**	
3 N 18°01'40" W		26.00'	8" PVC 624P2**	

RECYCLED WATER DATA				
BEARING/Delta	RADIUS	LENGTH	REMARKS	
A N 71°58'20" E		355.39'	8" PVC 680P2*	



MAIN STREET
63+00.00 TO 66+82.65

FOR ALL WATER & FIRE
APPURTENANCE CROSSING
SEE SHEET 17 FOR DETAILS

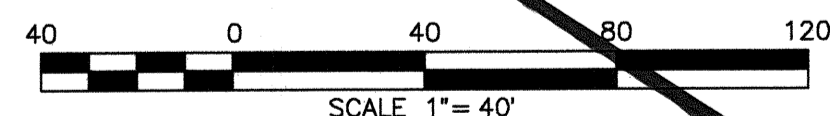
APPROVED FOR SEWER ONLY

Approved: 11/21/2022
By: *Alisa S. Valpando*
Principal City Engineer

NO.	OTAY WATER DISTRICT REVISIONS	App'd	Date

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 ALISA S. VALPANDO P.E. NO.: 47945 MY REGISTRATION EXPIRES: DISCIPLINE CIVIL	(SIGNATURE) DATE ALISA S. VALPANDO P.E. NO.: 47945 MY REGISTRATION EXPIRES: DISCIPLINE CIVIL	PROJECT#: D1019-090533 PERMIT#: DEV-22-001 P.Z.: W624 & RW690 REVIEWED BY: DATE:

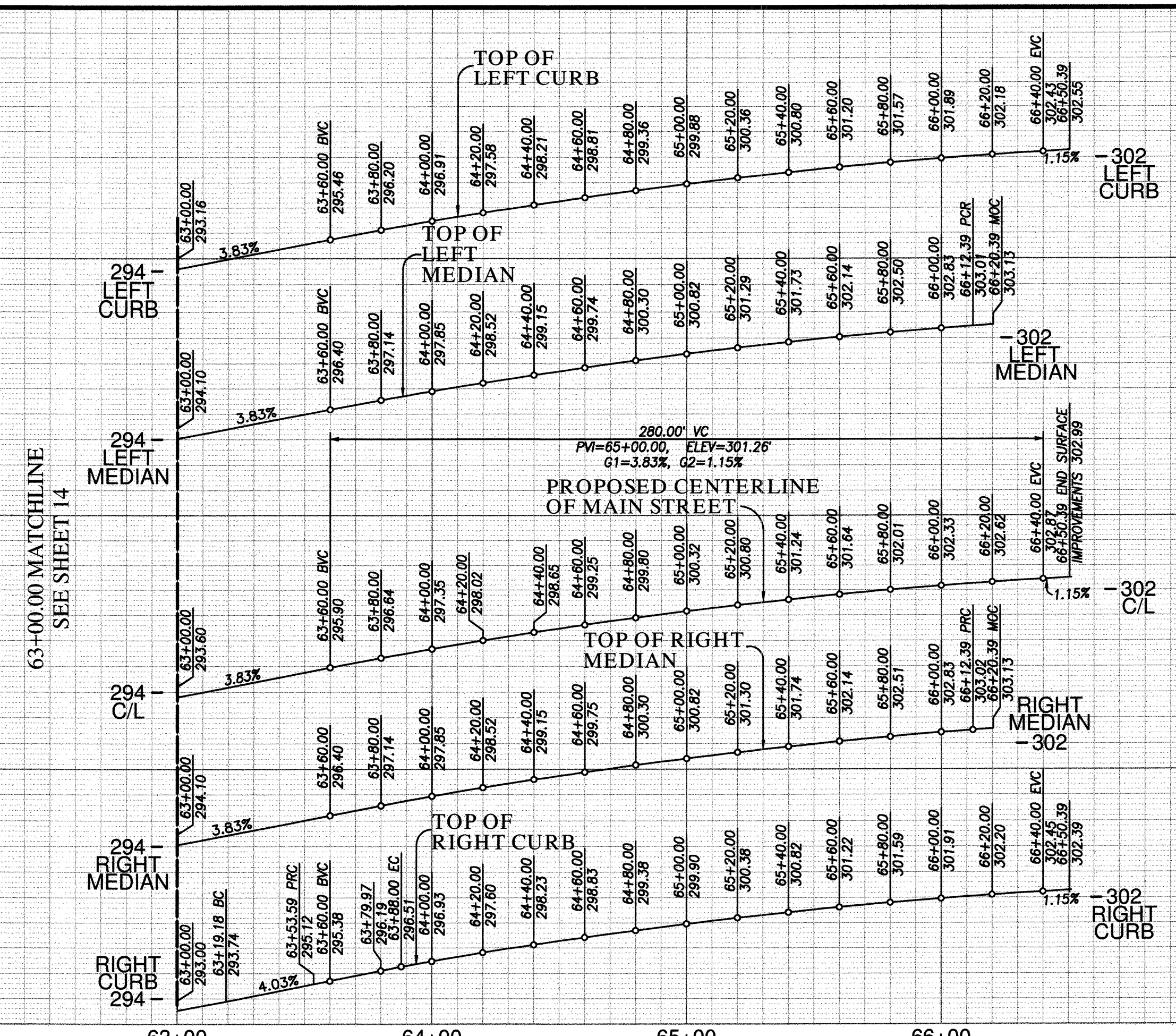
CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	DATUM	SCALE	Designed By	Drawn By	Checked By	Submitted:	Approved:	CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT	DRAWING NO.	
Contractor:	C.C.V. DWG. 16026					DESCRIPTION: BRASS DISK MARKED "SD CITY ENGR." IN 3/4" IRON PIPE, 1.5 MILES EAST OF INTERSECTION OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROMONT 10' HIGH BOLDERS & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT. #1309 PER P.O.S. 14841) ELEV. 828.319 DATUM: NAVD 83 (NAD83)	Horizontal 1"=40' Vertical 1"=8'	Oliver S. Valpando	Alisa S. Valpando	R.C.E. No. 47945	11/18/22	Submitted:	Approved:	MAIN STREET (EAST OF HERITAGE ROAD) CHULA VISTA TRACT NO. 16-02	22001-16



HUNSAKER & ASSOCIATES
SAN DIEGO, CALIFORNIA
REGISTERED PROFESSIONAL ENGINEER
ALISA S. VALPANDO
C 47945
STATE OF CALIFORNIA
CIVIL
ENGINEERING: 9707 Waples Street, San Diego, CA, 92121
SURVEYING: P1(65)0558-4500, FX(65)0558-1414

R11327&EngImprovement Plan/Main Street Imp11327P16.dwg|Nov-18-2022:13:54

VOID



PROFILE SCALES
 HORIZ. : 1"= 40'
 VERT. : 1"= 8'

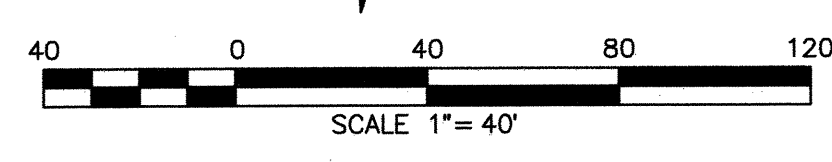
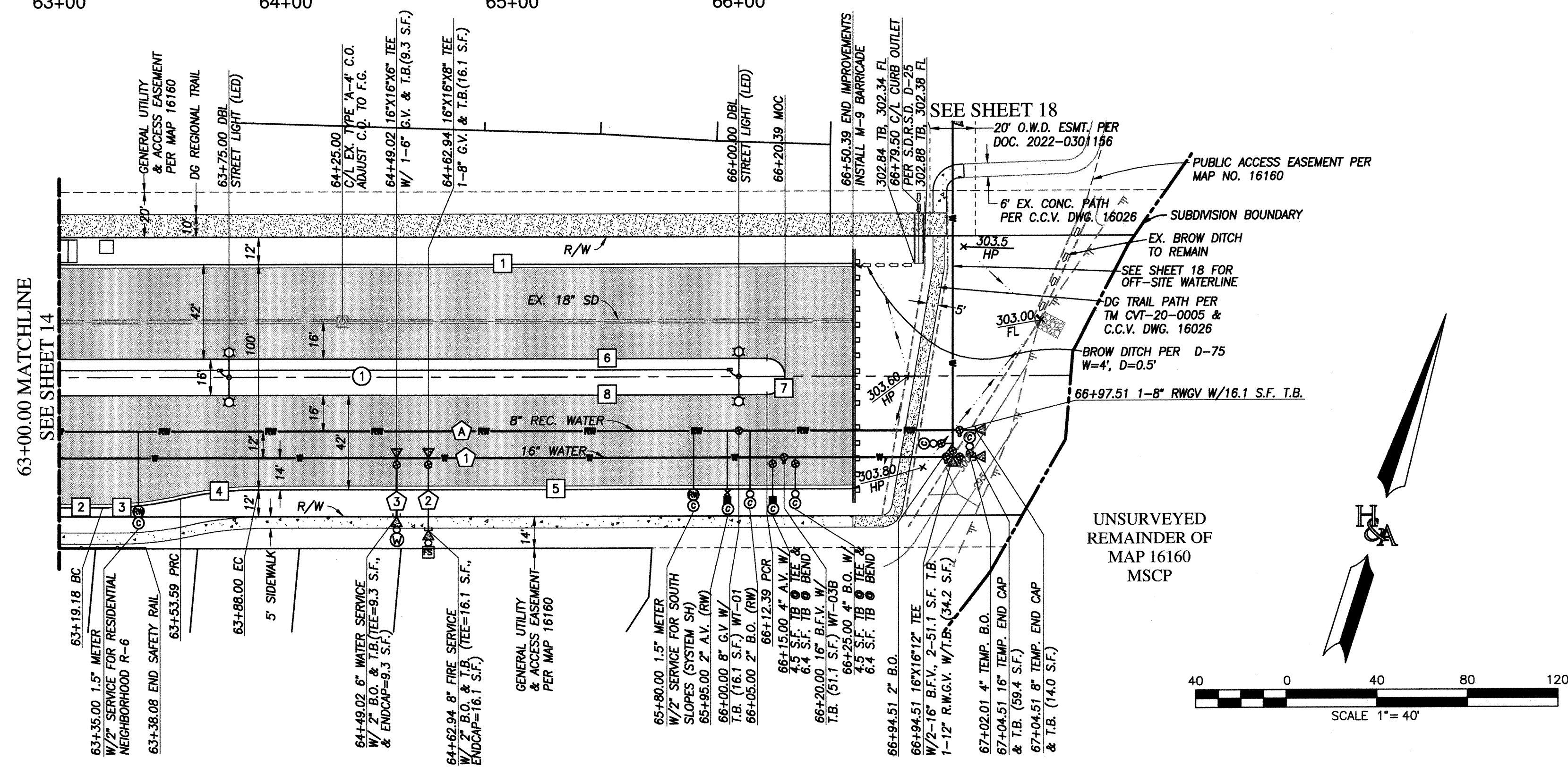
CENTERLINE DATA			
BEARING/Delta	RADIUS	LENGTH	REMARKS
1 N 71°58'20" E		350.39'	

CURB DATA			
BEARING/Delta	RADIUS	LENGTH	REMARKS
1 N 71°58'20" E		350.39'	6" TYPE 'G' C&G
2 N 71°58'20" E		19.18'	6" TYPE 'G' C&G
3 13°15'41"	150.00'	34.72'	6" TYPE 'G' C&G
4 13°15'41"	150.00'	34.72'	6" TYPE 'G' C&G
5 N 71°58'20" E		262.39'	6" TYPE 'G' C&G
6 N 71°58'20" E		312.39'	6" TYPE 'B-1' CURB
7 180°00'00"	8.00'	25.13'	6" TYPE 'B-1' CURB
8 N 71°58'20" E		312.39'	6" TYPE 'B-1' CURB

WATER DATA			
BEARING/Delta	RADIUS	LENGTH	REMARKS
1 N 71°58'20" E		404.51'	16" PVC 624P2*
2 N 18°01'40" W		32.00'	6" PVC 624P2**
3 N 18°01'40" W		26.00'	8" PVC 624P2**

RECYCLED WATER DATA			
BEARING/Delta	RADIUS	LENGTH	REMARKS
A N 71°58'20" E		404.51'	8" PVC 680P2*

NOTE:
 1. SUPPORT BLOCKS ARE REQUIRED FOR ALL TEES, CROSSES, GATE VALVES AND BUTTERFLY GATE VALVES.



MAIN STREET

63+00.00 TO 66+82.65

FOR ALL WATER & FIRE APPURTENANCE CROSSING SEE SHEET 17 FOR DETAILS

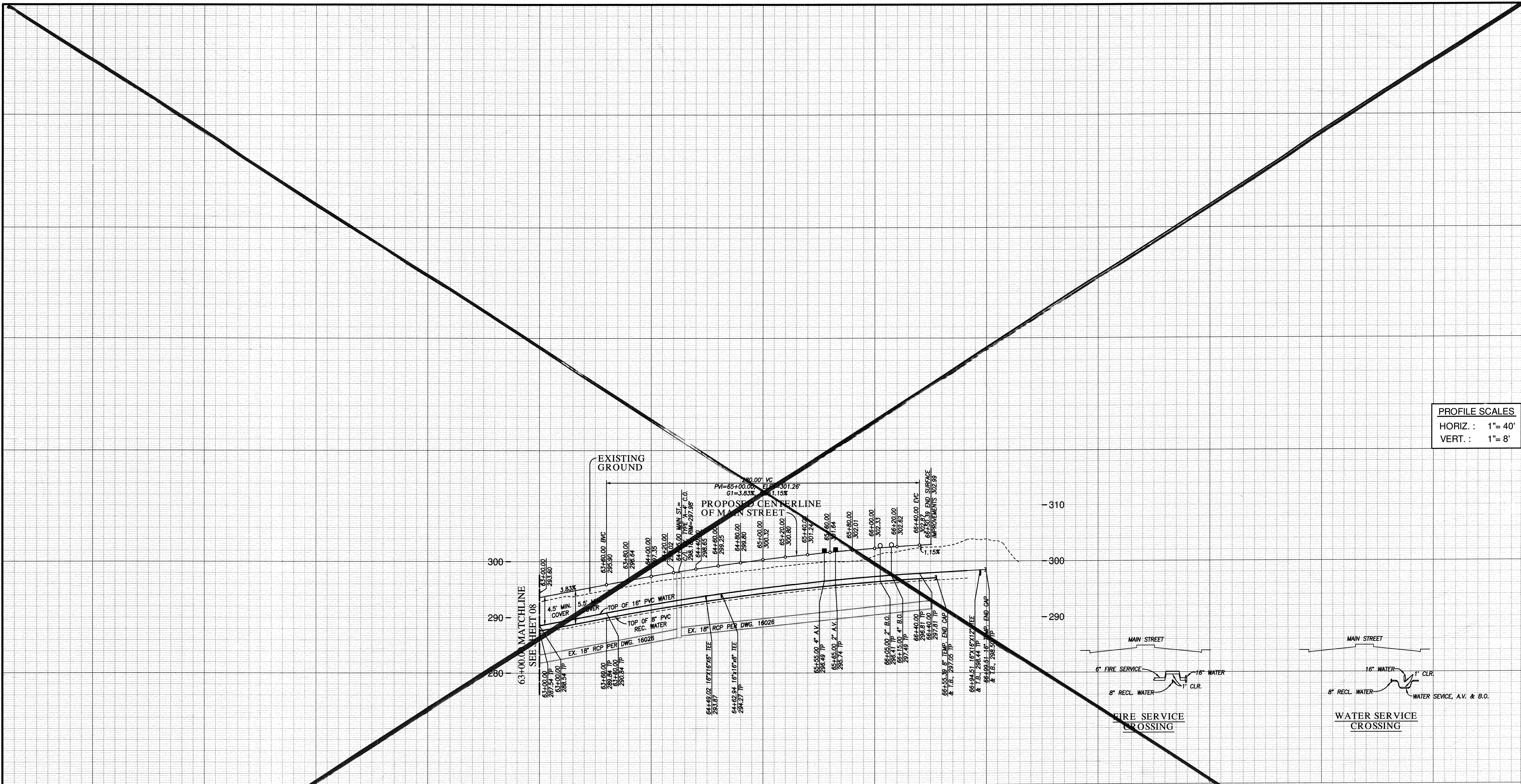
UTILITY NOTE ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.		CITY "AS-BUILT" (SIGNATURE) DATE ALISA S. VIALPANDO P.E. NO.: 47945 MY REGISTRATION EXPIRES: DISCIPLINE CIVIL		O.W.D. "AS-BUILT" (SIGNATURE) DATE ALISA S. VIALPANDO P.E. NO.: 47945 MY REGISTRATION EXPIRES: DISCIPLINE CIVIL		OTAY WATER DISTRICT PROJECT#: D1019-090533 PERMIT#: DEV-22-001 P.Z.: W624 & RW680 REVIEWED BY: <i>Alisa S. Vialpando</i> DATE: 02.24.2023		<table border="1"> <thead> <tr> <th>NO.</th> <th>OTAY WATER DISTRICT REVISIONS</th> <th>App'd</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	OTAY WATER DISTRICT REVISIONS	App'd	Date				
NO.	OTAY WATER DISTRICT REVISIONS	App'd	Date														
CONSTRUCTION RECORD Contractor: C.C.V. DWG. 16026 Inspector: C.C.V. DWG. 14032 Date Completed: C.C.V. DWG. 21045 C.C.V. DWG. 20024		REFERENCES BY REVISIONS Date App'd		DATUM DESCRIPTION: BRASS DISK MARKED "SD CITY ENGR." IN 3/4" IRON PIPE, 1.5 MILES EAST OF INTERSECTION OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 150' EASTERLY OF PROMINENT 10' HIGH BOULDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT. #1359 PER R.O.S. 1484) ELEV. 628.319 DATUM: NAVD '88 (NAVD '29)		SCALE Horizontal 1"=40' Vertical 1"=8' Designed By: <i>Alisa S. Vialpando</i> D.L./G.D. Y.C./A.V. Plans Prepared Under Supervision Of: <i>Alisa S. Vialpando</i> Date: 2/21/23 R.C.E. No.: 47945		Submitted: 4/20/2023 Approved: 4/21/2023 Principal Civil Engineer									
CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT PUBLIC IMPROVEMENT PLANS FOR: MAIN STREET (EAST OF HERITAGE ROAD) CHULA VISTA TRACT NO. 16-02						DRAWING NO. 22001-16 W.O. NO. IP220003											

REPLACEMENT SHEET

O.W.D. D1019-090533
 DEV-22-001

MAIN STREET EAST OF HERITAGE ROAD PUBLIC IMPROVEMENT PLAN

PROFILE SCALES
HORIZ : 1"= 40'
VERT : 1"= 8'

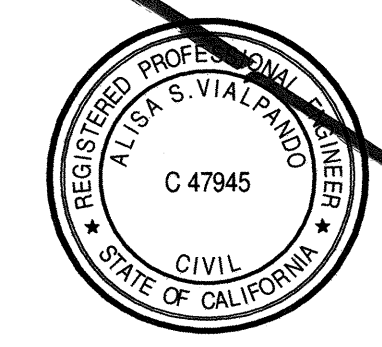


MAIN STREET PUBLIC UTILITY PROFILE
63+00.00 TO 66+50.39

FOR EXISTING STORM DRAIN
INFO SEE C.C.V. 16026

APPROVED FOR SEWER ONLY

Approved 11/21/2022
By Alisa S. Valpando
Principal City Engineer



HUNSAKER & ASSOCIATES
SAN DIEGO, INC.
ENGINEERING 9707 Waples Street
San Diego, Ca. 92121
SURVEYING PH: (619) 598-4500 FX: (619) 598-1414

UTILITY NOTE
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CITY "AS-BUILT"
(SIGNATURE) DATE
ALISA S. VALPANDO P.E. NO.: 47945
MY REGISTRATION EXPIRES: DISCIPLINE CIVIL

O.W.D. "AS-BUILT"
(SIGNATURE) DATE
ALISA S. VALPANDO P.E. NO.: 47945
MY REGISTRATION EXPIRES: DISCIPLINE CIVIL

OTAY WATER DISTRICT
PROJECT#: D1019-090533
PERMIT#: DEV-22-001 P.Z.: W624 & RW680
REVIEWED BY: DATE:

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd
Contractor:	C.C.V. DWG. 16026				
Inspector:	C.C.V. DWG. 14032				
Date Completed:	C.C.V. DWG. 21045				
	C.C.V. DWG. 20024				

DESCRIPTION	DATE	APP'D
DESCRIPTION: BRASS DISK MARKED "SD CITY ENGR." IN 3/4" IRON PIPE, 1.5 MILES EAST OF INTERSECTION OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROMINENT 10' HIGH BOULDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT. #1359 PER R.O.S. 14841) ELEV. 628.319 DATUM: NAVD '88 [NAVD '28]		

SCALE
Horizontal 1"=40'
Vertical 1"=8'

Designed By: Alisa S. Valpando
Drawn By: D.L./G.D.
Checked By: Y.C./A.V.
Planned Under Supervision Of: Alisa S. Valpando
Date: 11/02/22
R.C.E. No.: 47945

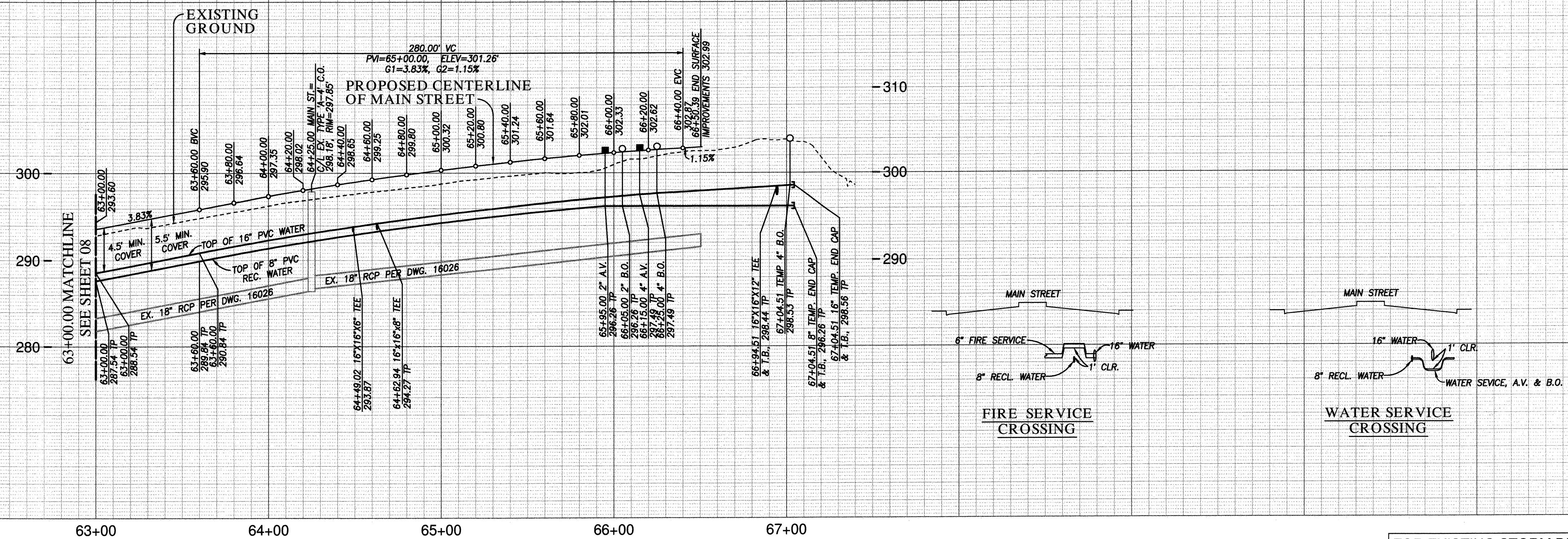
Submitted: _____
By: _____
Planning: _____
Landscape: _____

Approved: _____
By: _____
Principal Civil Engineer

CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT
PUBLIC IMPROVEMENT PLANS FOR:
MAIN STREET (EAST OF HERITAGE ROAD)
CHULA VISTA TRACT NO. 16-02
DRAWING NO. **22001-17**
W.O. No. IP220003

VOID

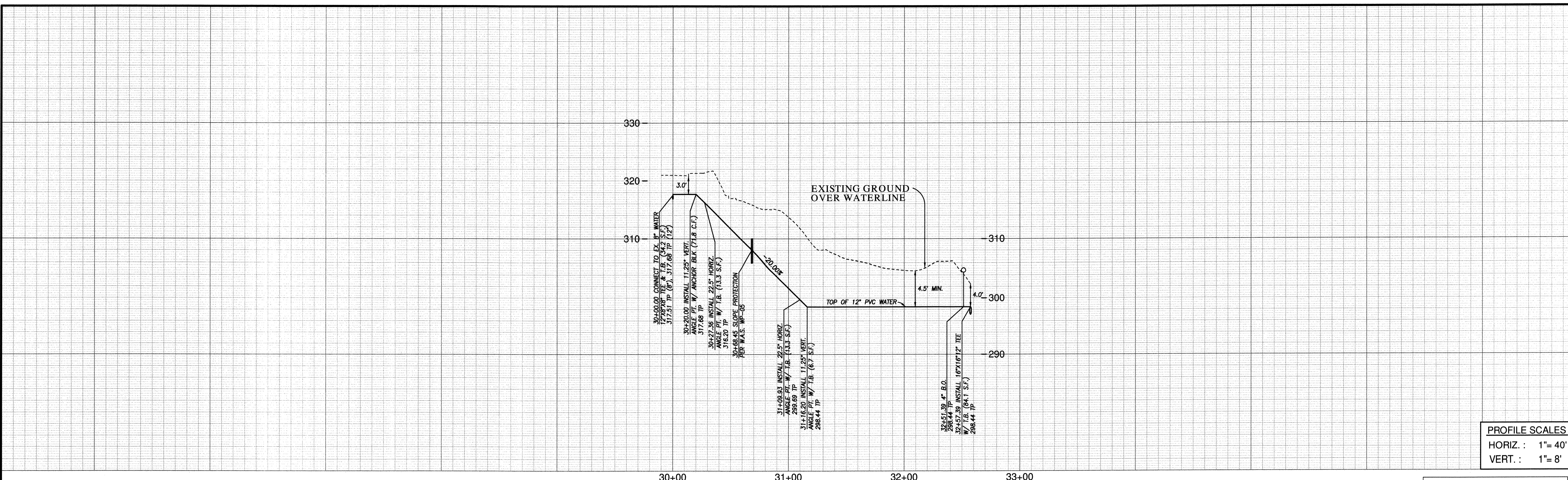
PROFILE SCALES
 HORIZ. : 1"= 40'
 VERT. : 1"= 8'



MAIN STREET PUBLIC UTILITY PROFILE
 63+00.00 TO 66+50.39

FOR EXISTING STORM DRAIN
 INFO SEE C.C.V. 16026

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" DATE: _____ (SIGNATURE) _____ ALISA S. VIALPANDO P.E. NO.: 47945 MY REGISTRATION EXPIRES: _____ DISCIPLINE: CIVIL		O.W.D. "AS-BUILT" DATE: _____ (SIGNATURE) _____ ALISA S. VIALPANDO P.E. NO.: 47945 MY REGISTRATION EXPIRES: _____ DISCIPLINE: CIVIL		OTAY WATER DISTRICT PROJECT#: D1019-090533 PERMIT#: DEV-22-001 P.Z.: W624 & RW680 DESIGNED BY: <i>Alisa S. Vialpando</i> DATE: 02.24.2023 CHECKED BY: _____ SUBMITTED: 4/20/2023 APPROVED: 4/21/2023 BY: <i>Alisa S. Vialpando</i> PLANNING: _____ LANDSCAPE: _____		<table border="1" style="width:100%;"><thead><tr><th>NO.</th><th>OTAY WATER DISTRICT REVISIONS</th><th>App'd</th><th>Date</th></tr></thead><tbody><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></tbody></table>		NO.	OTAY WATER DISTRICT REVISIONS	App'd	Date								
NO.	OTAY WATER DISTRICT REVISIONS	App'd	Date																		
CONSTRUCTION RECORD Contractor: _____ Inspector: _____ Date Completed: _____		REFERENCES C.C.V. DWG. 16026 C.C.V. DWG. 14032 C.C.V. DWG. 21045 C.C.V. DWG. 20024		DATUM DESCRIPTION: BRASS DISK MARKED "SD CITY ENGR." IN 3/4" IRON PIPE, 1.5 MILES EAST OF INTERSECTION OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROMINENT 10' HIGH BOULDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT. #1359 PER R.O.S. 1484) ELEV. 629.319 DATUM: NAVD 88 (NAVD 29)		SCALE Horizontal: 1"=40' Vertical: 1"=8'		Submitted: 4/20/2023 Approved: 4/21/2023 By: <i>Alisa S. Vialpando</i> Principal Civil Engineer													
CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT						DRAWING NO. 22001-17 W.O. No. JP220003															



PROFILE SCALES
HORIZ. : 1"= 40'
VERT. : 1"= 8'

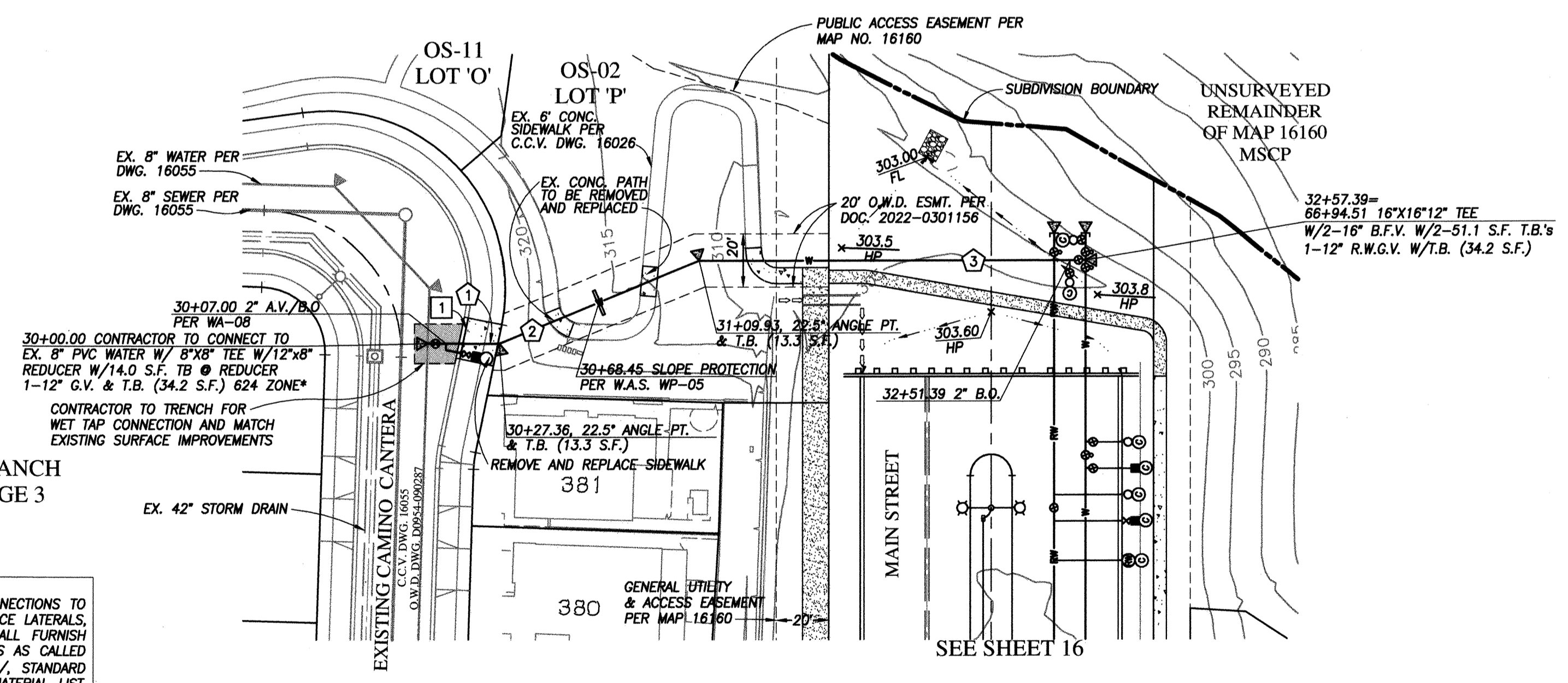
FOR EXISTING STORM DRAIN
INFO SEE C.C.V. 16026

WATER DATA

BEARING/Delta	RADIUS	LENGTH	REMARKS
1 N 18°01'40" W		27.36'	12" PVC CL 305
2 N 40°31'40" W		82.58'	12" PVC CL 305
3 N 18°01'40" W		147.46'	12" PVC CL 305

CURB DATA

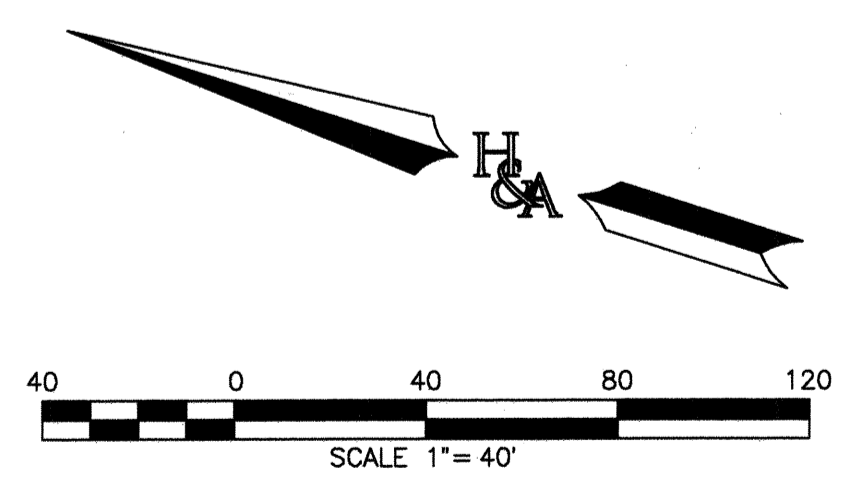
BEARING/Delta	RADIUS	LENGTH	REMARKS
1 N 83°31'49" E		16.00'	6" TYPE 'G' C&G



OTAY RANCH
VILLAGE 3

*** WET TAP CONNECTION NOTE:**
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 MATERIAL 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.

WATERLINE FROM MAIN STREET TO CAMINO CANTERA



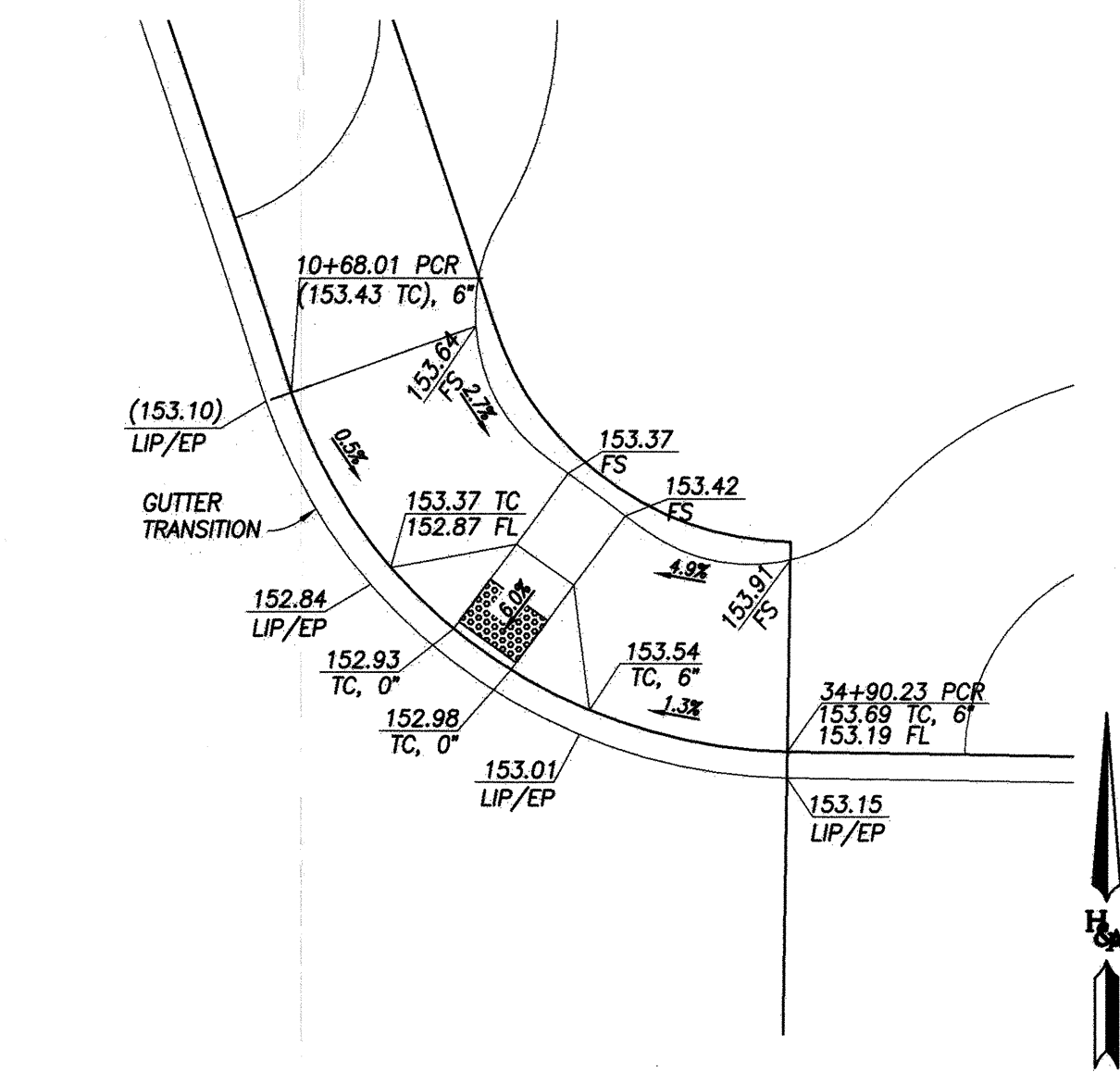
UTILITY NOTE	CITY "AS-BUILT"	O.W.D. "AS-BUILT"	OTAY WATER DISTRICT	REVISIONS	DATE
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CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	App'd	Date
Contractor:	C.C.V. DWG. 16026				
Inspector:	C.C.V. DWG. 14032				
Date Completed:	C.C.V. DWG. 21045				
	C.C.V. DWG. 20024				

REGISTERED PROFESSIONAL ENGINEER
ALISA S. VALPANDO
C 47945
CIVIL
STATE OF CALIFORNIA

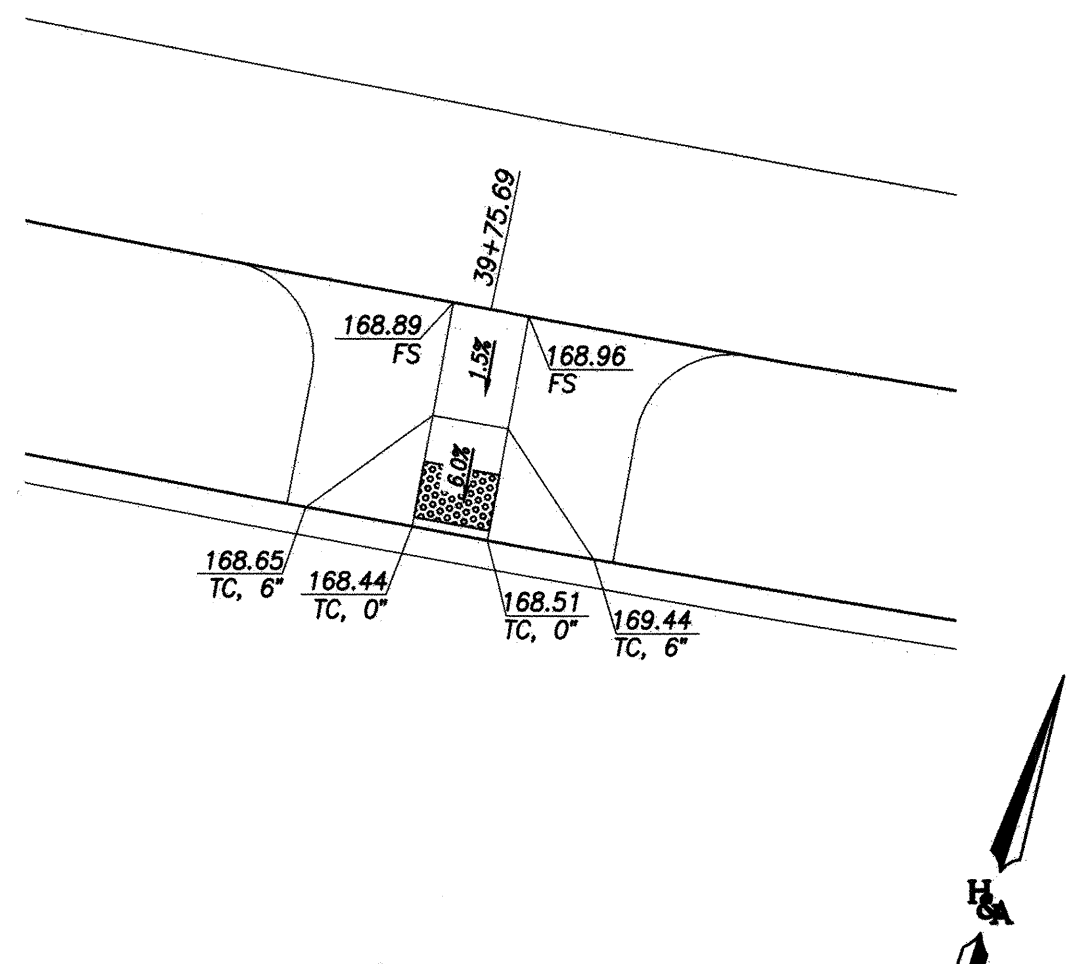
HUNSAKER & ASSOCIATES
SAN DIEGO, INC.

PLANNING 9707 Waples Street
ENGINEERING San Diego, Ca. 92121
SURVEYING PH(650)558-4500 FX(650)558-1414

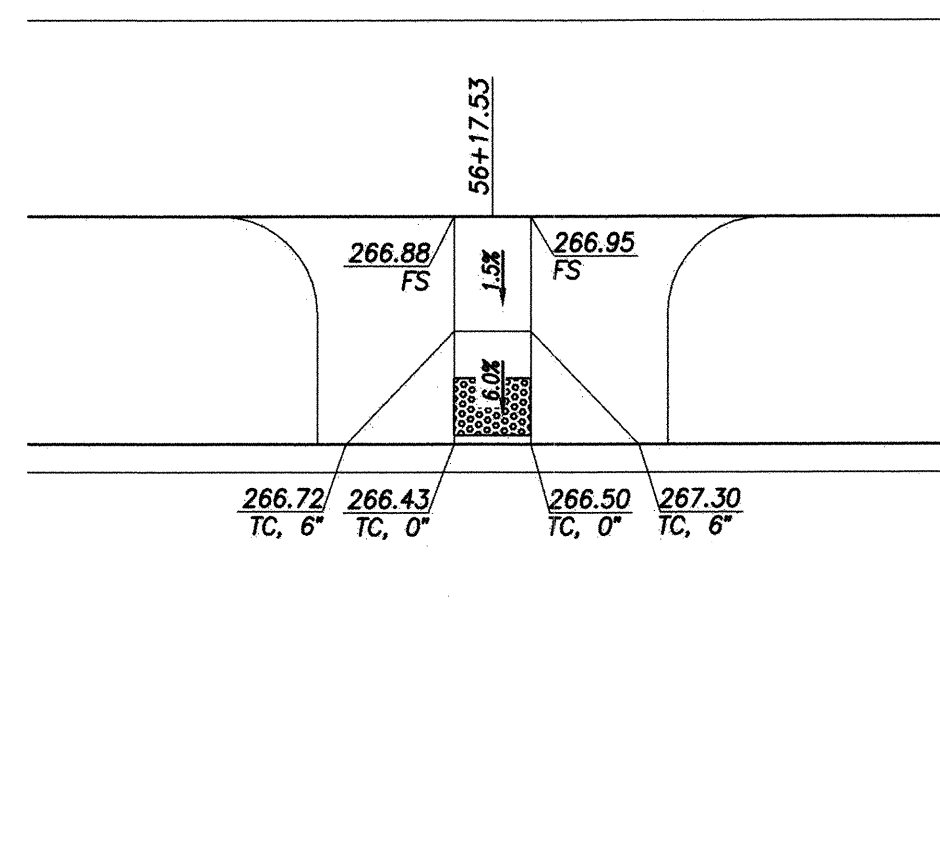
Submitted: 4/20/2023	Approved: 4/21/2023	CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT
By: <i>[Signature]</i>	By: <i>[Signature]</i>	PUBLIC IMPROVEMENT PLANS FOR: MAIN STREET (EAST OF HERITAGE ROAD) CHULA VISTA TRACT NO. 16-02
Planning:	Landscape:	DRAWING NO. 22001-18 W.O. No. IP220003



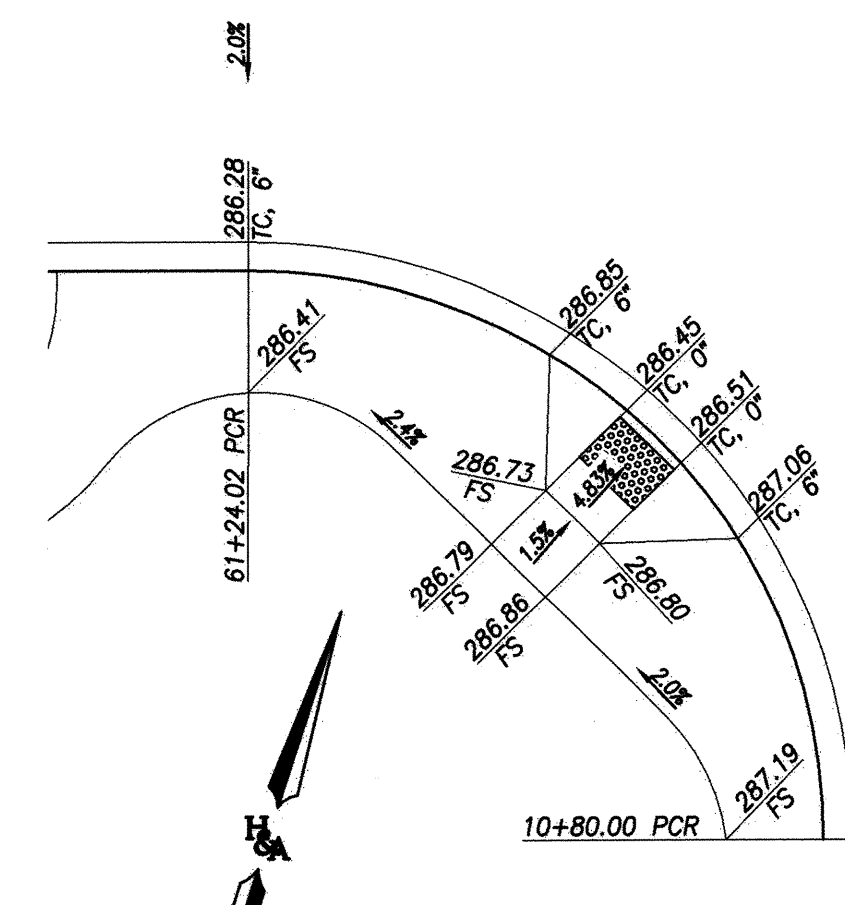
HERITAGE ROAD & MAIN STREET
SEE SHEET 04 FOR CURB RETURN PROFILES



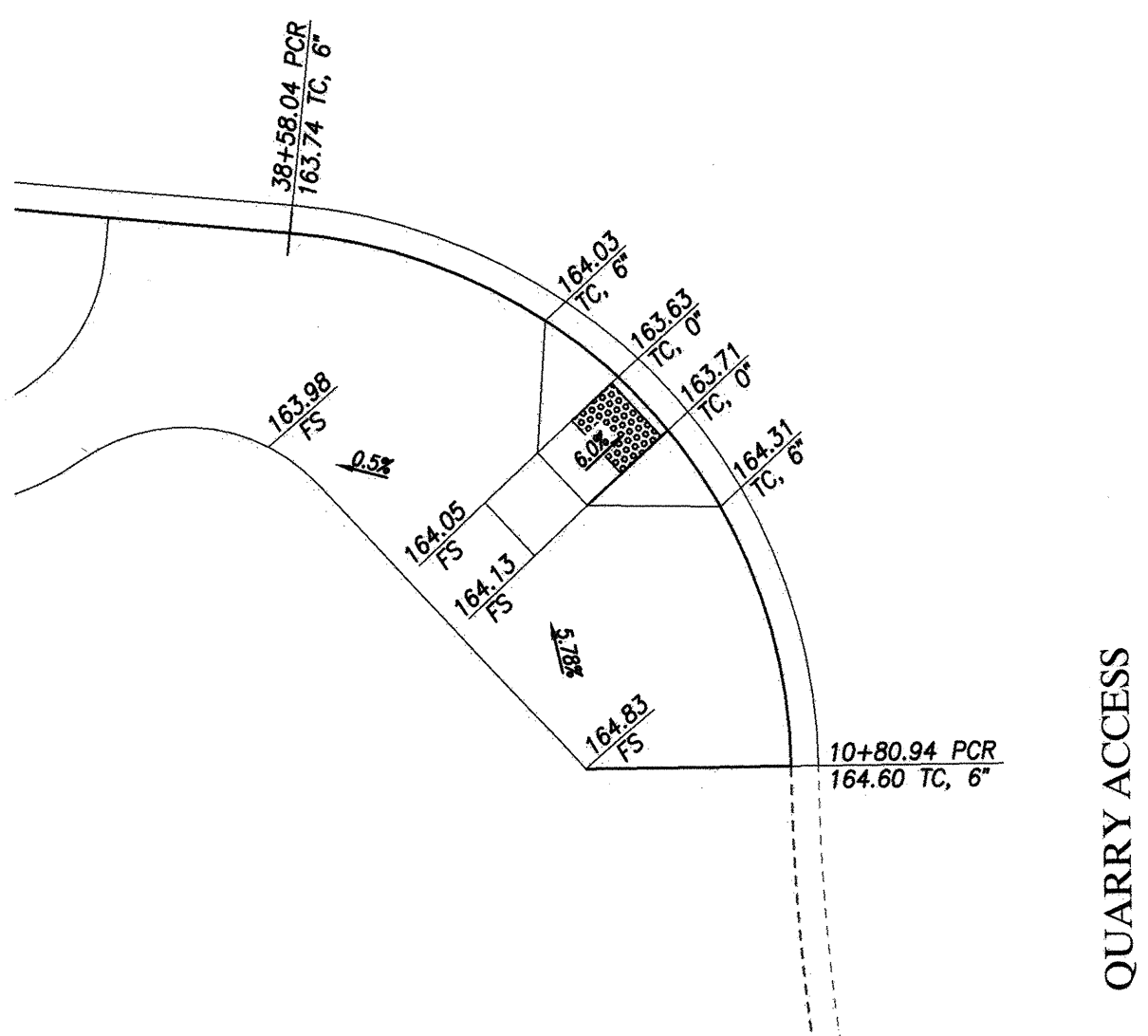
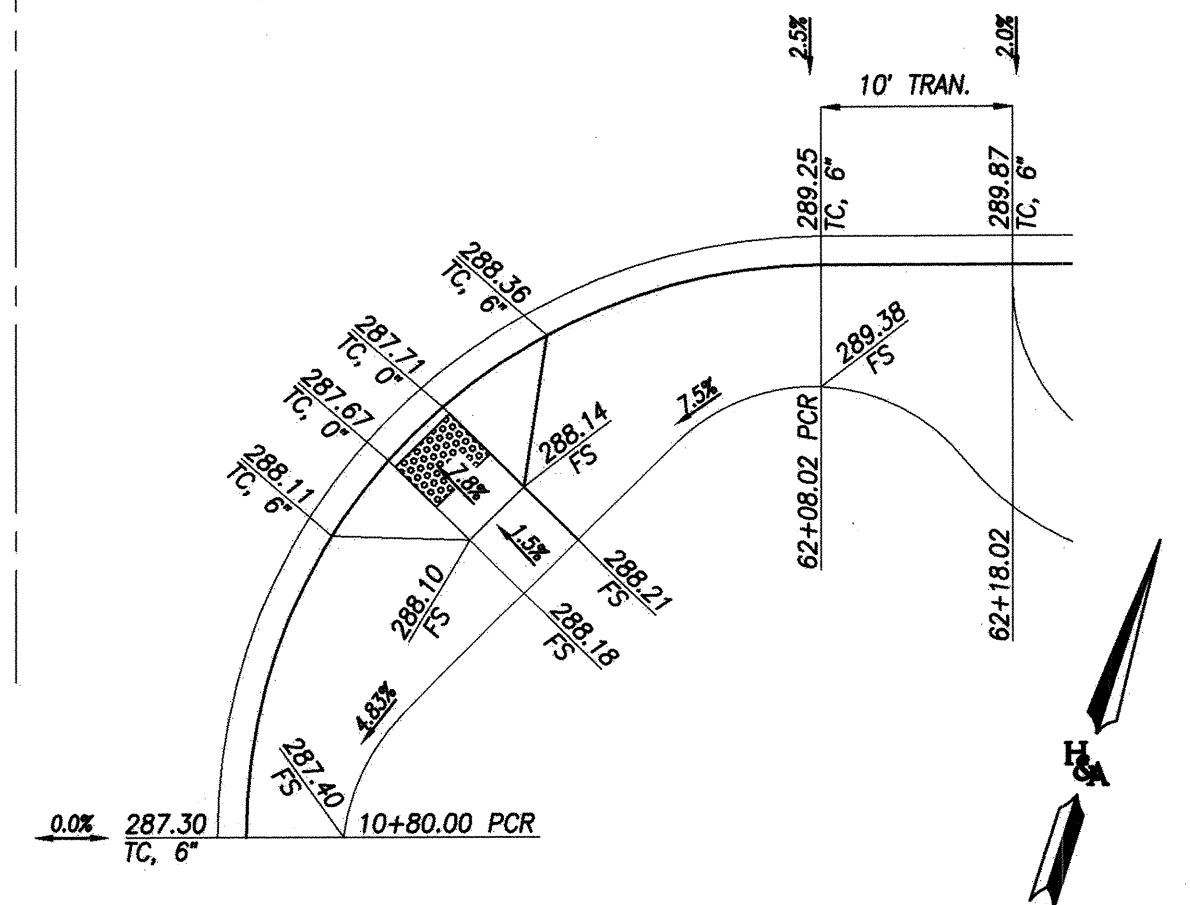
NORTHERN CURB RAMP AT QUARRY ACCESS & MAIN STREET
SEE SHEET 06



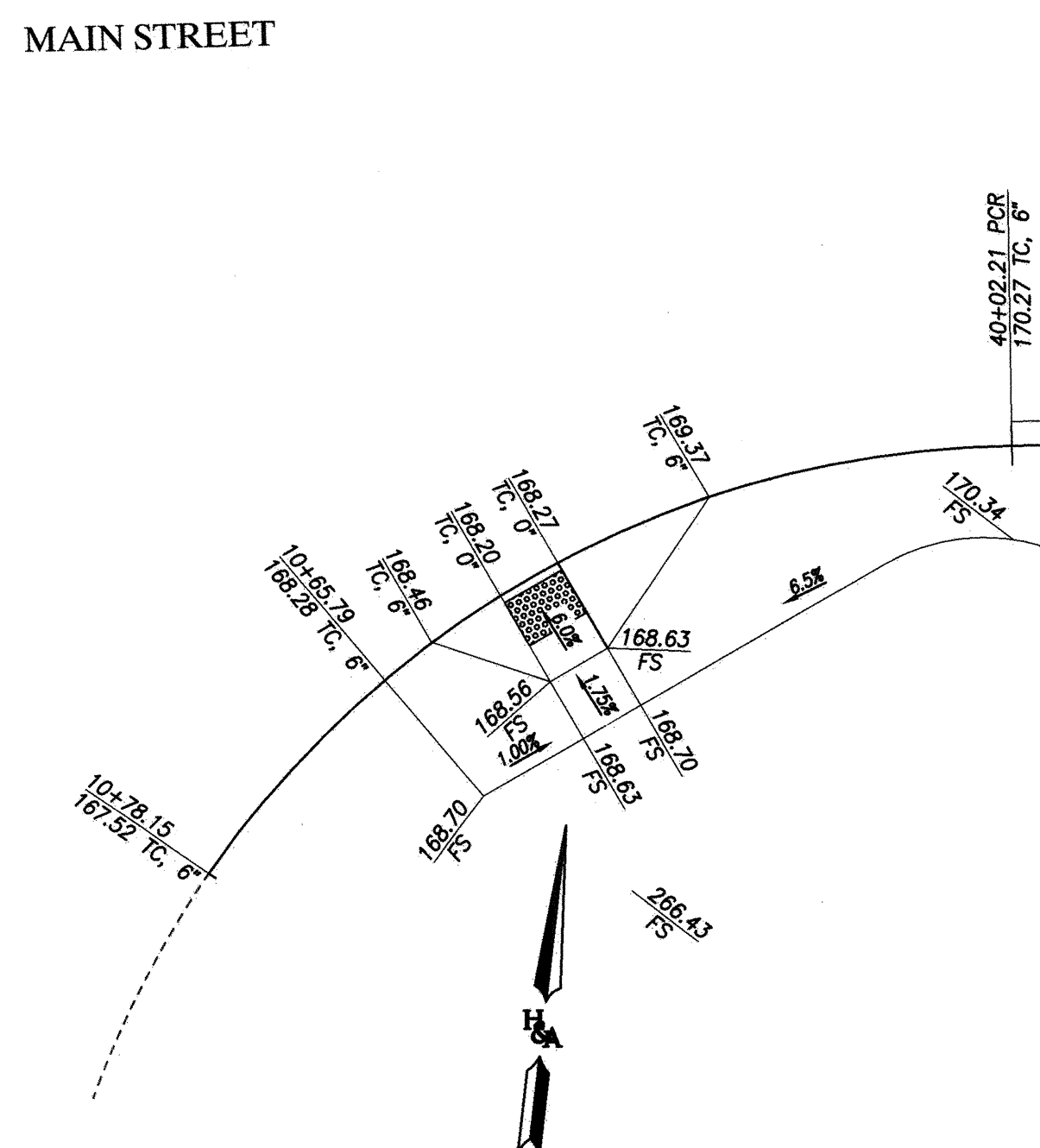
NORTHERN CURB RAMP AT PVT. STREET 'A' & MAIN STREET
SEE SHEET 12



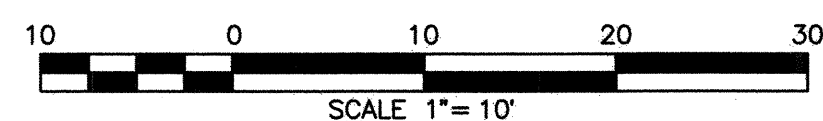
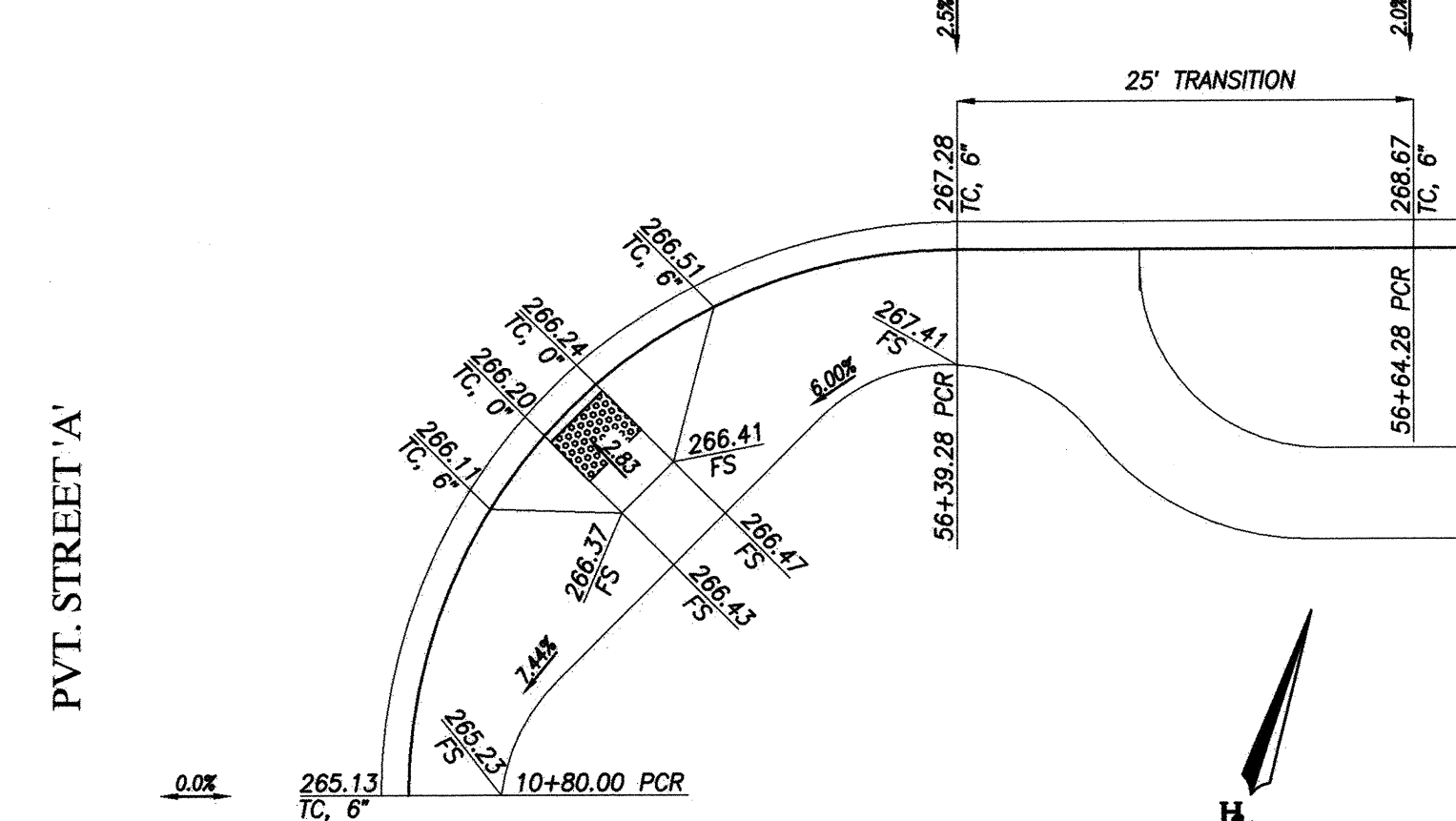
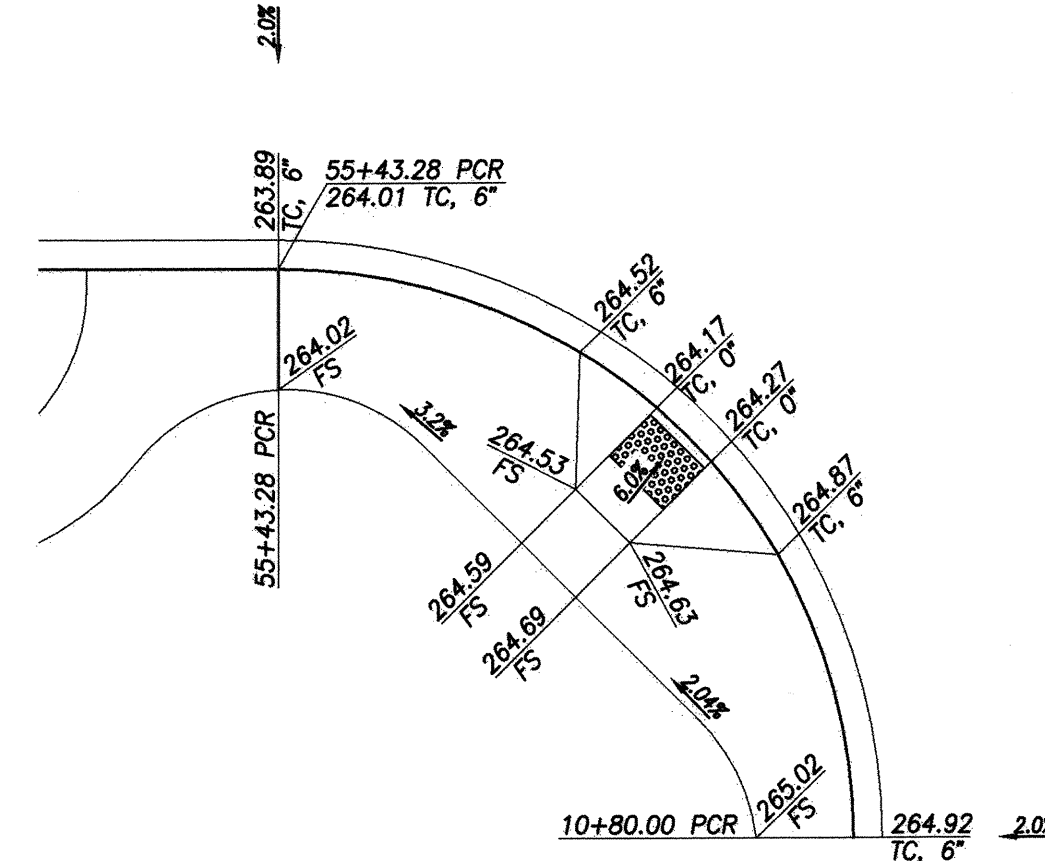
MAIN STREET & PRIVATE STREET 'B'
SEE SHEET 14 FOR CURB RETURN PROFILES



SE QUARRY ACCESS & MAIN STREET
SEE SHEET 06 FOR CURB RETURN PROFILES



MAIN STREET & PRIVATE STREET 'A'
SEE SHEET 12 FOR CURB RETURN PROFILES



BENCHMARK NOTE:
SUBTRACT 2.13' FROM THE NAVD 88 ELEVATIONS SHOWN HEREON TO REACH [NGVD 29] ELEVATIONS.

UTILITY NOTE

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CITY "AS-BUILT"

(SIGNATURE) DATE
ALISA S. VIALPANDO P.E. NO.: 47945
(PRINTED NAME)
MY REGISTRATION EXPIRES: DISCIPLINE CIVIL

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	DATUM	SCALE	Designed By	Drawn By	Checked By	Submitted:	Approved:	CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT	DRAWING NO.
Contractor:	C.C.V. DWG. 16026					DESCRIPTION: BRASS DISK MARKED "SD CITY ENGR." IN 3/4" IRON PIPE 1.5 MILES EAST OF INTERSECTION OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROMINENT 10' HIGH BOULDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT. #1359 PER R.O.S. 1484) ELEV. 628.319 DATUM: NAVD 88 (NAVD 29)	Horizontal 1"=40' Vertical 1"=8'	D.L.	Plans Prepared Under Supervision Of ALISA S. VIALPANDO	Y.C./A.V.	4/20/2023	4/24/2023	PLANNING 9707 Waples Street ENGINEERING San Diego, Ca. 92121 SURVEYING PH8580558-4500 FX8580558-15414	22001-19
Inspector:	C.C.V. DWG. 14032											Principal Civil Engineer		
Date Completed:	C.C.V. DWG. 21045													
	C.C.V. DWG. 20024													



MAIN STREET EAST OF HERITAGE ROAD
PUBLIC IMPROVEMENT PLAN

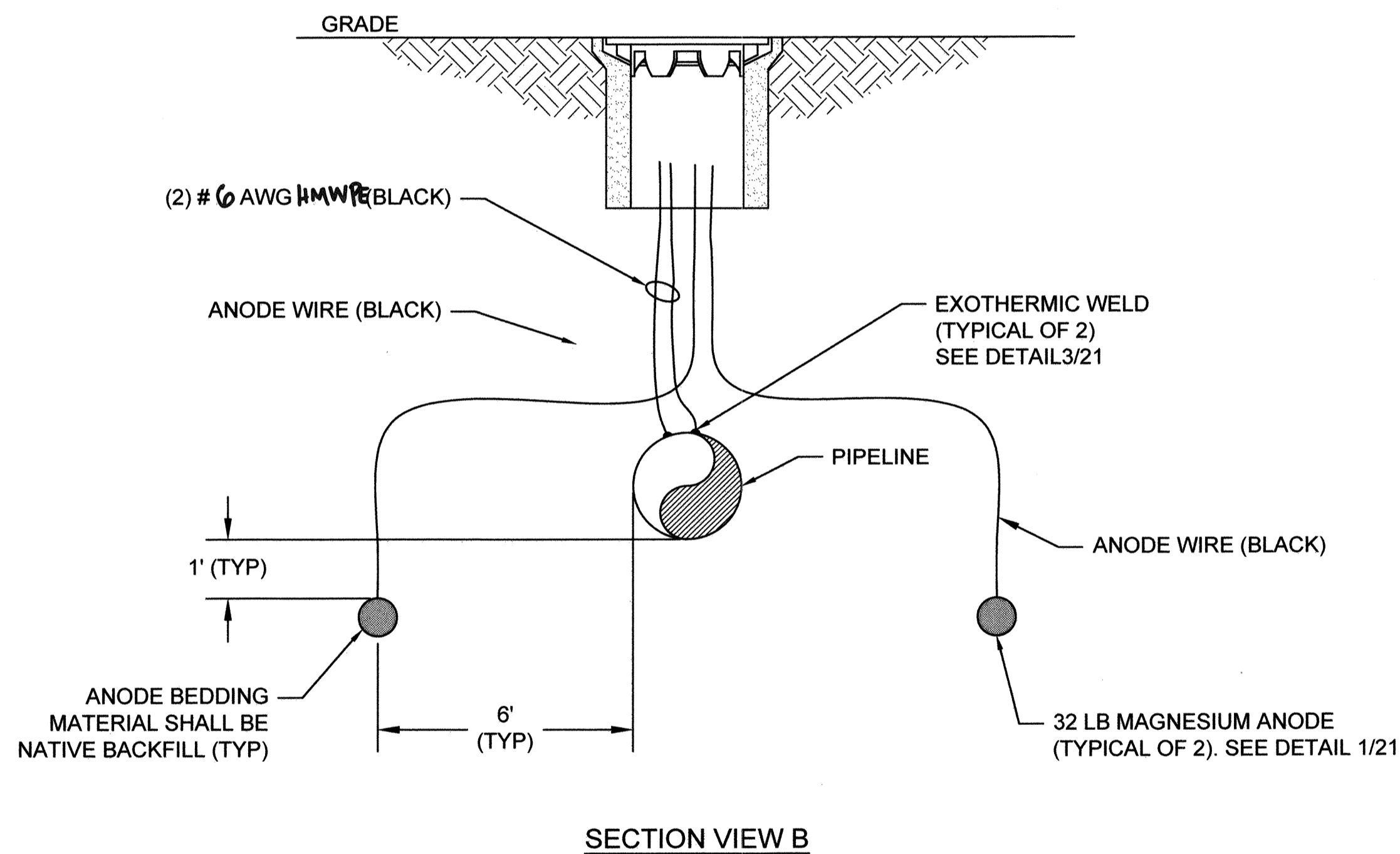
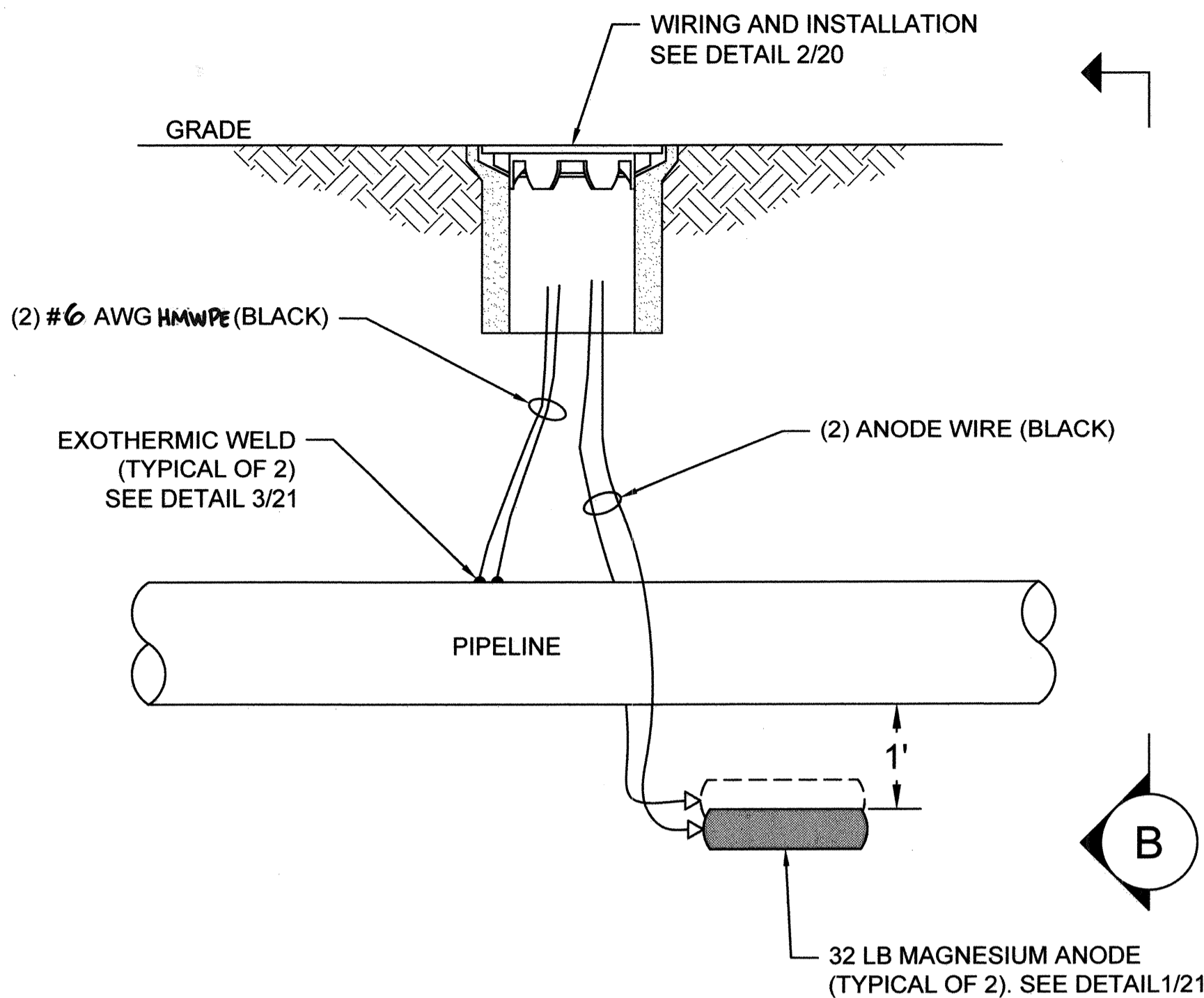
W.O. NO. 2395-0012

MAIN STREET TEST STATION SCHEDULE

POTABLE WATER				
STATION NUMBER	NUMBER OF TEST LEADS	ANODE QTY.	DETAIL REF.	COMMENTS
35+60.19	4	0	3/20	I.F. TIE-IN TO EXISTING PIPE
38+25.00	2	2	1/20	CTS WITH (2) ANODES
43+75.00	2	2	1/20	CTS WITH (2) ANODES
48+00.00	2	2	1/20	CTS WITH (2) ANODES
RECYCLED WATER				
35+62.65	4	0	3/20	I.F. TIE-IN TO EXISTING PIPE
37+50.00	2	2	1/20	CTS WITH (2) ANODES
42+50.00	2	2	1/20	CTS WITH (2) ANODES
47+50.00	2	2	1/20	CTS WITH (2) ANODES

GENERAL CP NOTES:

- ALL MATERIALS AND INSTALLATION MUST BE IN ACCORDANCE WITH THE SPECIFICATIONS.
- UNLESS OTHERWISE INDICATED, DETAILS ARE NOT TO SCALE (NTS).
- ALL TEST STATIONS ARE TO BE CIRCULAR H-20 RATED TRAFFIC BOXES WITH METAL LIDS.
 - CP TEST TO BE ON THE BOX COVER
 - LEAVE 24" SLACK IN WIRES MINIMUM
 - BOTTOM OF BOX MUST BE NATIVE SOIL
 - WIRES MUST BE IDENTIFIED USING 1/2" BRASS TAGS
 - ALL BOXES MUST HAVE A 24" x 24" x 6" CONCRETE PAD
- ALL FLANGES OR INLINE VALVES MUST BE BONDED. THE EXCEPTION IS THE INSULATING FLANGE KIT.
- ANY CHANGES MUST BE APPROVED BY THE "ENGINEER" AND DOCUMENTED ON THE "AS-BUILT" DRAWINGS.
- WIRE SPLICES ARE NOT PERMITTED, UNLESS APPROVED BY THE "ENGINEER".

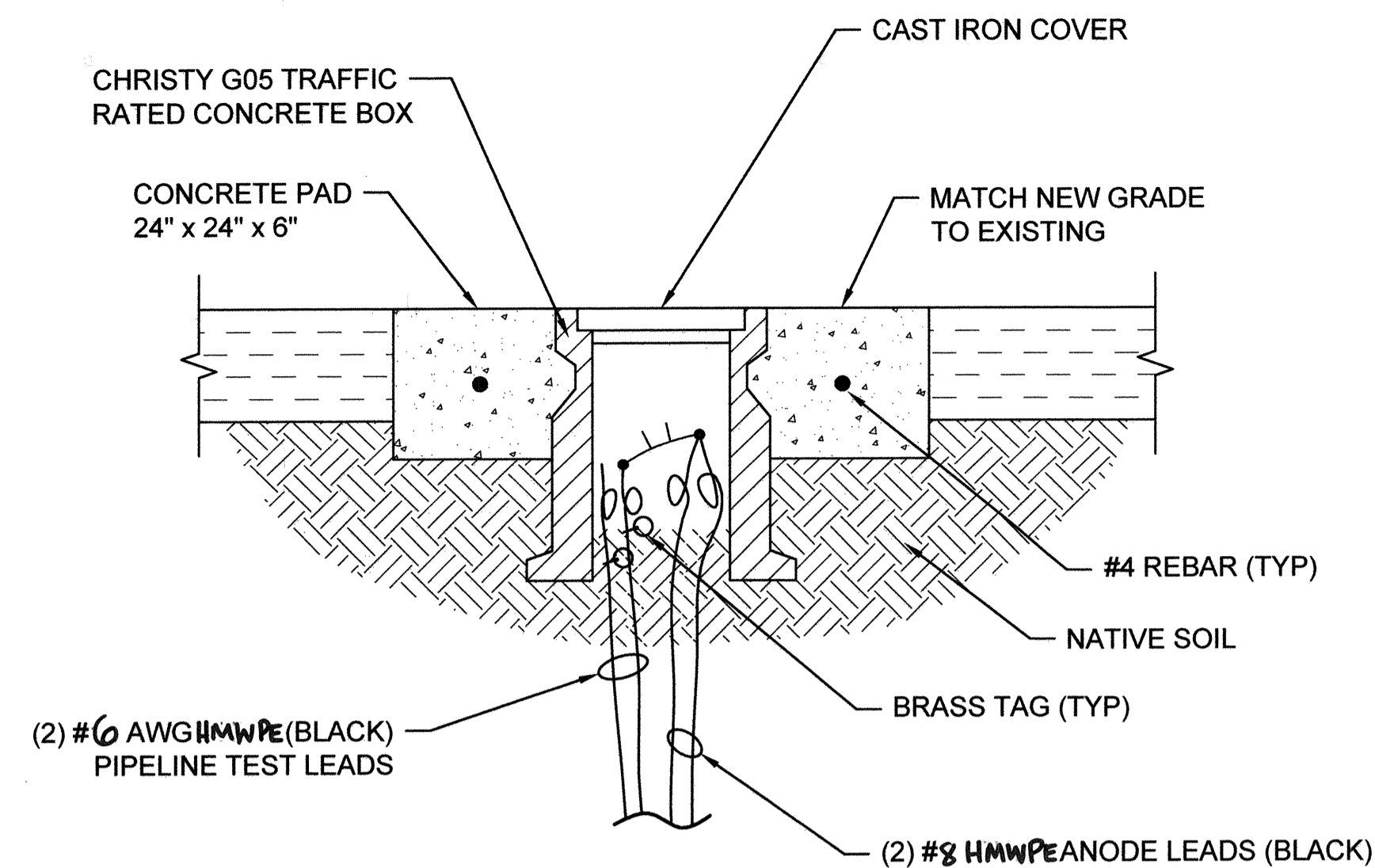


NOTES:

- TEST BOXES SHALL BE INSTALLED DIRECTLY OVER PIPE, UNLESS OTHERWISE DIRECTED BY THE OWNER.
- SUFFICIENT EXCESS WIRE LENGTH TO BE PROVIDED TO REACH 24" ABOVE STREET ELEVATION AT THE TEST STATION.

1 TEST STATION TYPE ANODE

20 SCALE: NTS

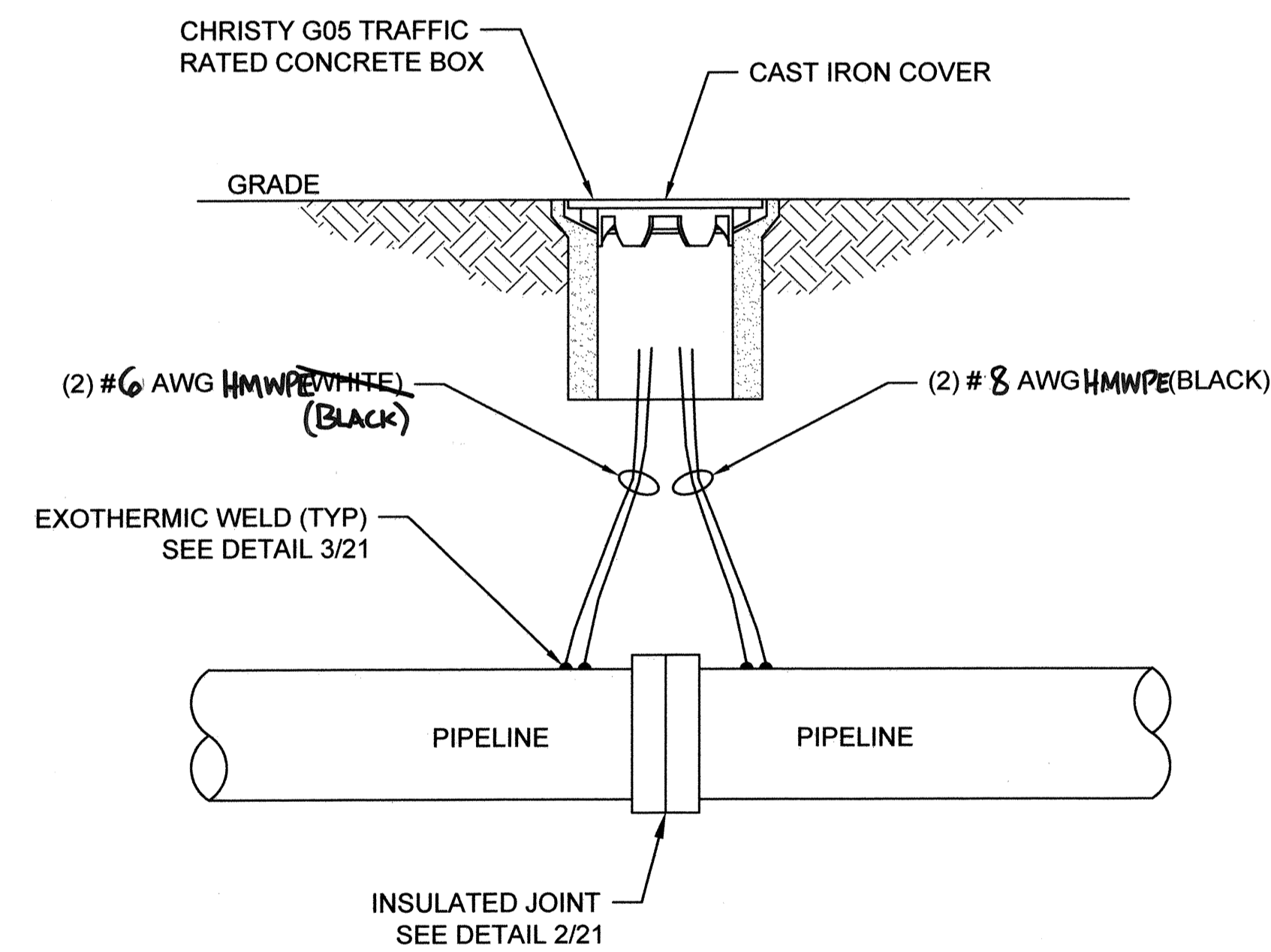


NOTE:

- AT LEAST 24 INCHES OF SLACK SHALL BE PROVIDED FOR EACH WIRE IN TRAFFIC BOX.

2 ANODE TEST BOX WIRING

20 SCALE: NTS



NOTE:

- AT LEAST 24 INCHES OF SLACK SHALL BE PROVIDED FOR EACH WIRE IN TRAFFIC BOX.

3 EXOTHERMIC WELD PROCESS

20 SCALE: NTS

UTILITY NOTE

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O.W.D. "AS-BUILT"	
(SIGNATURE)	DATE
ALISA S. VIALPANDO	P.E. NO.: 47945
MY REGISTRATION EXPIRES:	DISCIPLINE CIVIL



OTAY WATER DISTRICT	
PROJECT#: D1019-090533	P.Z.: W624 & RW680
PERMIT#: DEV-22-001	DATE: 02.23.2023
REVIEWED BY: <i>Ken M. Byrd</i>	

NO.	OTAY WATER DISTRICT REVISIONS	App'd	Date

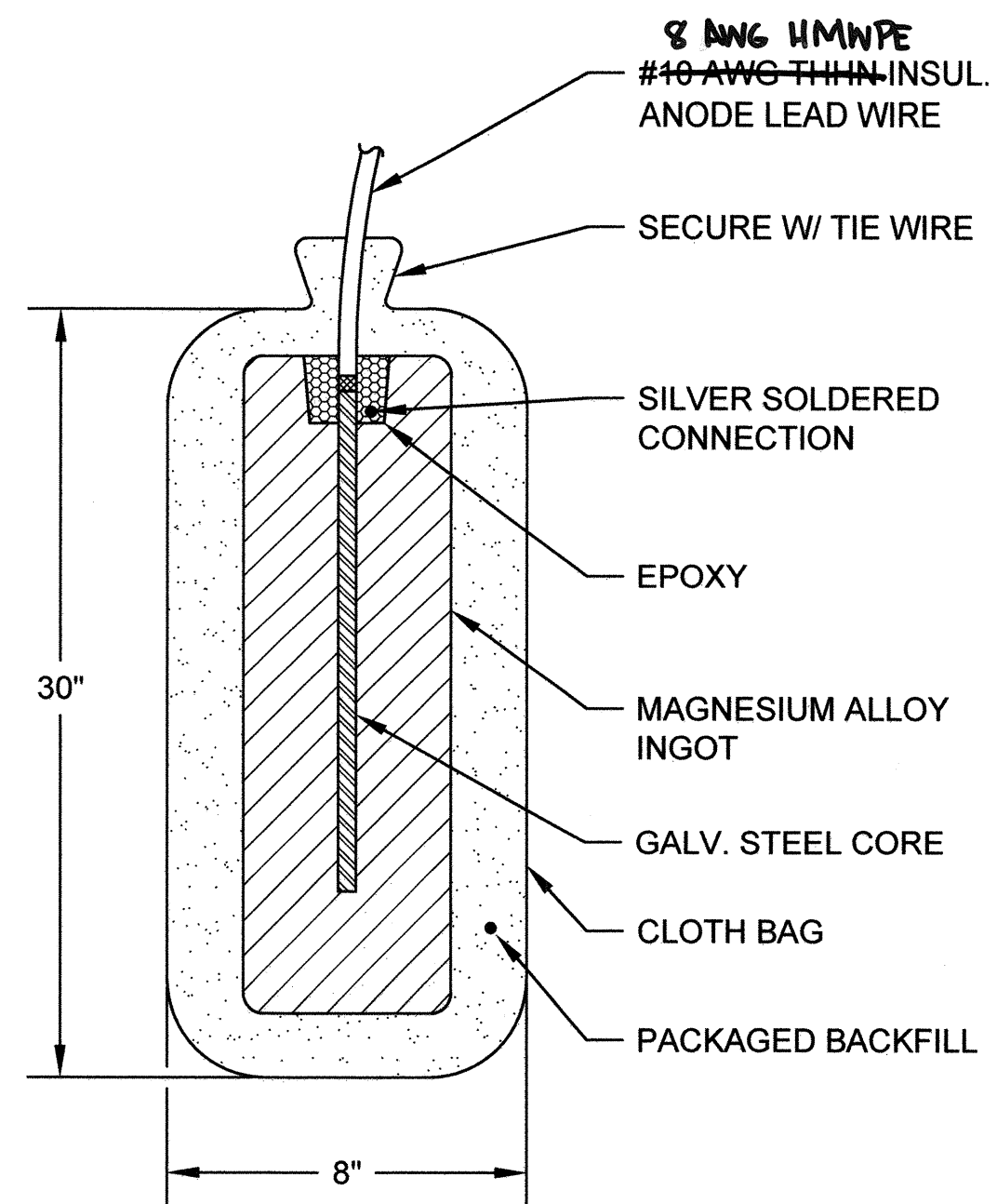
CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	DATUM	SCALE	Designed By	Drawn By	Checked By	Submitted:	Approved:	CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT	DRAWING NO.
Contractor: _____	C.C.V. DWG. 16026					DESCRIPTION: BRASS DISK MARKED "SD CITY ENGR." IN 3/4" IRON PIPE, 1.5 MILES EAST OF INTERSECTION OF MAIN ST. & HERITAGE RD., ON ROCK MOUNTAIN 100' EASTERLY OF PROMINENT 10' HIGH BOULDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT. #1359 PER S.D.S. 1484) ELEV. 626.319 DATUM: NAVD 83 (NAVD) 261	Horizontal	KLAUS J.	ROBIN M.	BROOKS B.	By: N/A	4/21/2023	CATHODIC PROTECTION PLANS FOR: MAIN STREET (EAST OF HERITAGE ROAD) CHULA VISTA TRACT NO. 16-02	22001-20
Inspector: _____	C.C.V. DWG. 14032						Vertical	KLAUS JEPPESEN	Date: 2-22-2023		By: N/A	For the City Engineer		
Date Completed: _____											Planning:	Landscape:		

ELEMENT	CONTENT %
AL	0.010
Mn	0.50 TO 1.30
Cu	0.02 MAX
Ni	0.001 MAX
Fe	0.03 MAX
OTHER	0.05 EACH OR 0.3 MAX TOTAL
Mg	REMAINDER

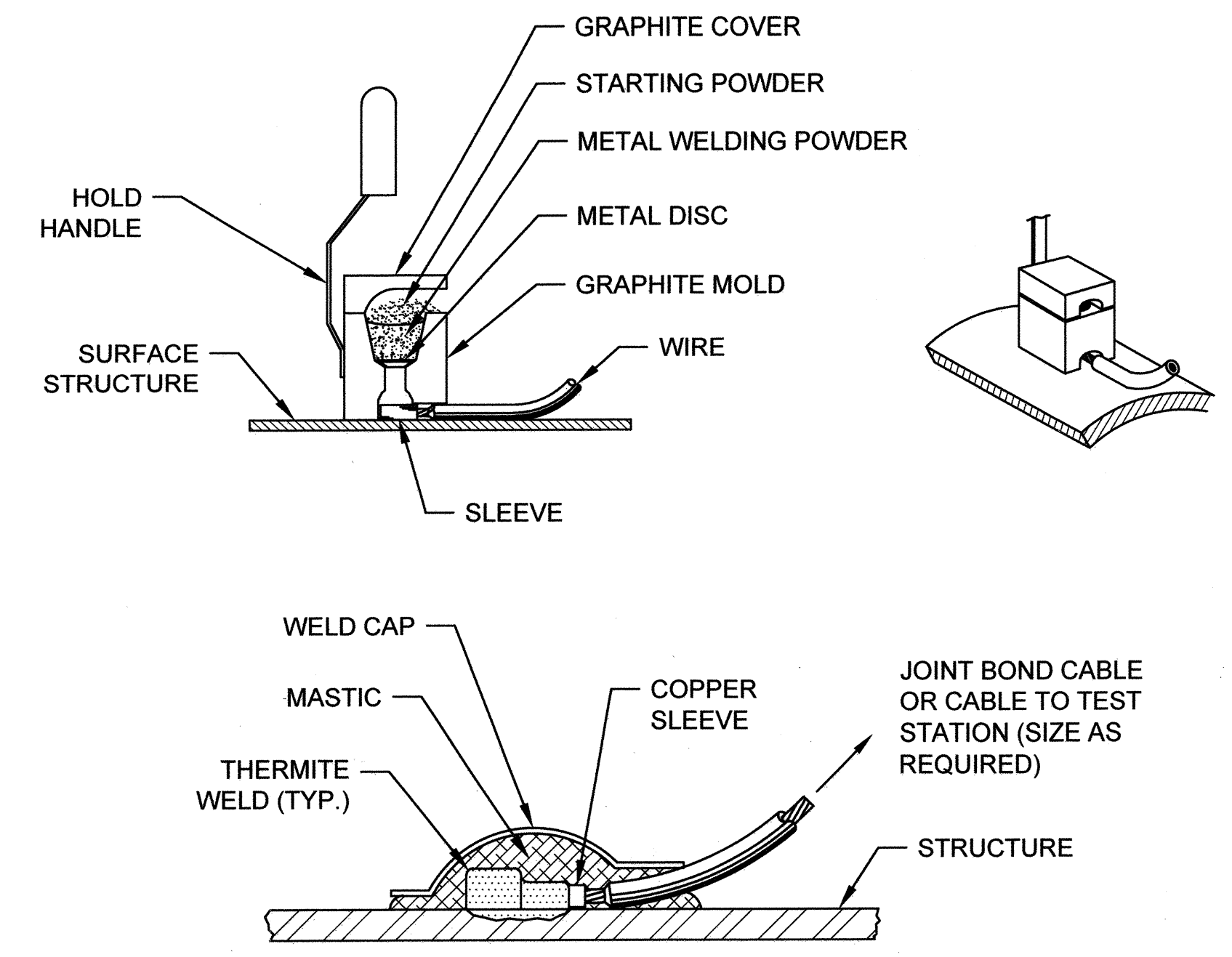
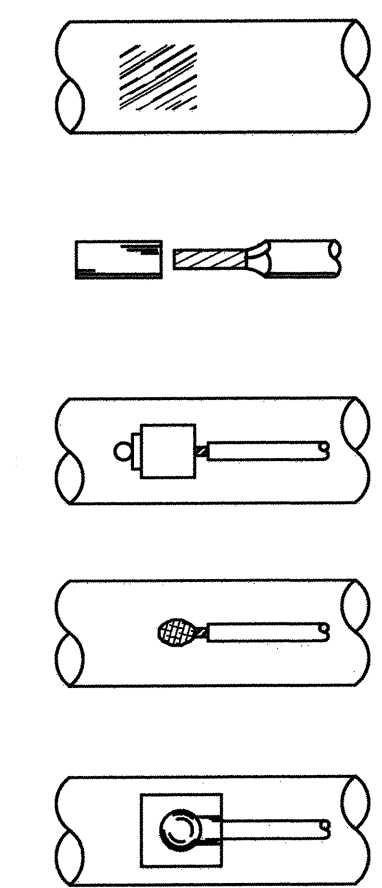
BACKFILL COMPOSITION

75% GYPSUM
20% BENTONITE
5% SODIUM SULPHATE

INGOT WEIGHT: 32 LBS
PACKAGED WEIGHT: ~70 LBS



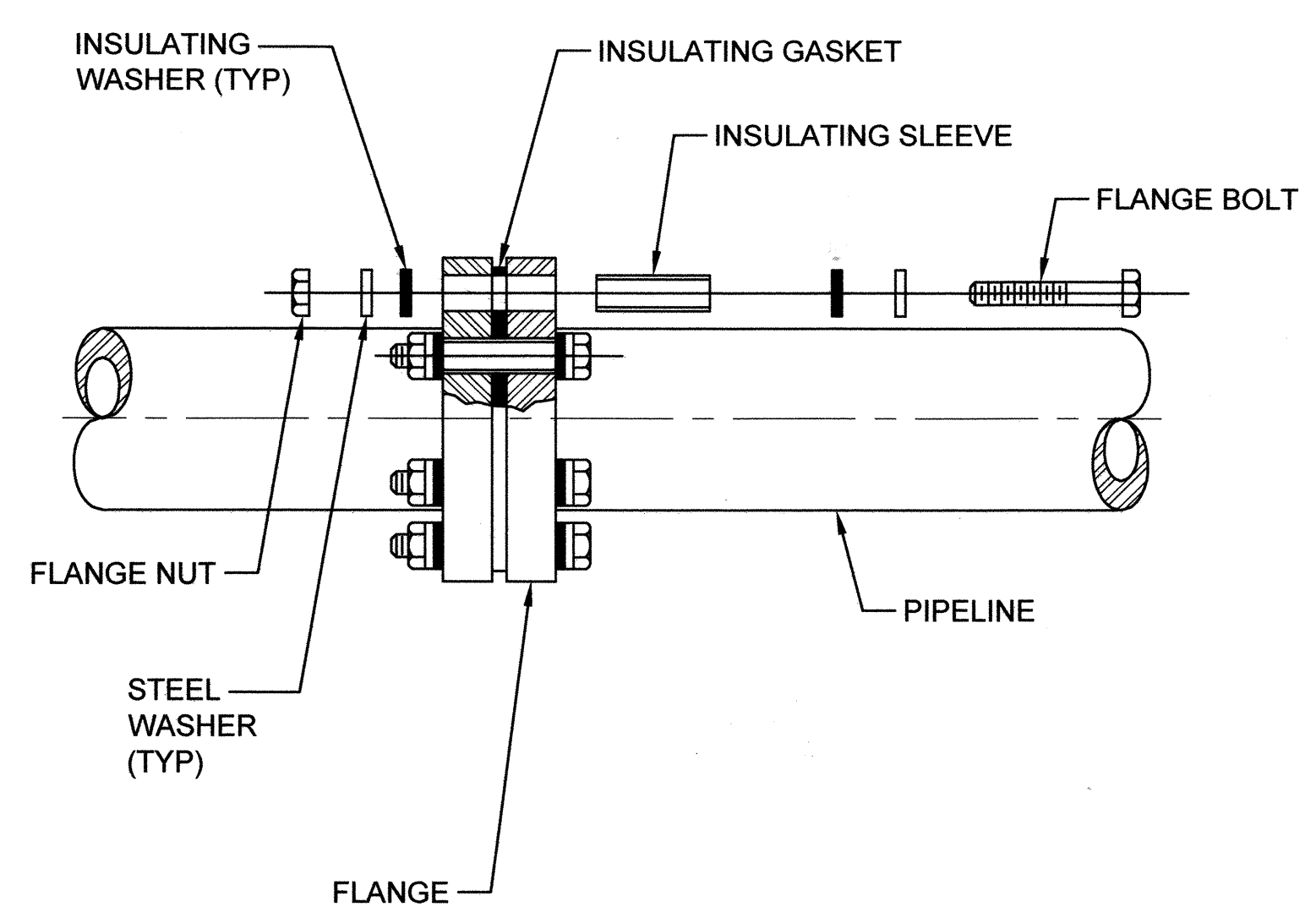
- STEP 1. FILE STRUCTURE CONNECTION AREA (3"x3") TO BARE SHINY METAL AND CLEAN.
- STEP 2. STRIP INSULATION FROM WIRE. ATTACH SLEEVE.
- STEP 3. HOLD MOLD FIRMLY WITH OPENING AWAY FROM OPERATOR AND IGNITE WITH FLINT GUN.
- STEP 4. REMOVE SLAG FROM CONNECTION AND PEEN WELD FOR SOUNDNESS.
- STEP 5. COVER CONNECTION AND EXPOSED STRUCTURE SURFACE WITH A WELD CAP.



NOTE:
1. PROCEDURE SHOWN ABOVE IS ONLY TO BE USED AS A GENERAL GUIDE ONLY. CONSULT MANUFACTURER'S LITERATURE FOR SPECIFIC INSTALLATION INSTRUCTIONS.

1 32LB HIGH-POTENTIAL MAGNESIUM ANODE
21 SCALE: NTS

3 EXOTHERMIC WELD PROCESS
21 SCALE: NTS



2 INSULATING FLANGE JOINT
21 SCALE: NTS

UTILITY NOTE
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O.W.D. "AS-BUILT"
SIGNATURE: ALISA S. WALPANDO
DATE: _____
P.E. NO.: 47945
MY REGISTRATION EXPIRES: _____ DISCIPLINE: CIVIL



OTAY WATER DISTRICT
PROJECT#: D1019-090533
PERMIT#: DEV-22-001
P.Z.: W624 & RW680
REVIEWED BY: [Signature]
DATE: 02.24.2023

NO.	OTAY WATER DISTRICT REVISIONS	App'd	Date

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	DATUM	SCALE	Designed By	Drawn By	Checked By	Submitted:	Approved:	CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT	DRAWING NO.
Contractor: _____	C.C.V. DWG. 16026					DESCRIPTION: BRASS DISK MARKED "30 CITY ENGR." IN 3/4" IRON PIPE. 1.5 MILES EAST OF INTERSECTION OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERNLY OF PROMONTORY OF HIGH BOLLIDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT. #1359 PER S.O.S. 1484) ELEV. 628.319 DATUM: NAD83 88-TMAGS 261	Horizontal	KLAUS J.	ROBIN M.	BROOKS B.	By: N/A	By: N/A	MAIN STREET (EAST OF HERITAGE ROAD) CHULA VISTA TRACT NO. 16-02	22001-21
Inspector: _____	C.C.V. DWG. 14032						Vertical	KLAUS JEPPESEN	ROBIN M.	BROOKS B.	Planning: _____	For the City Engineer		
Date Completed: _____														

MAIN STREET EAST OF HERITAGE ROAD PUBLIC IMPROVEMENT PLAN

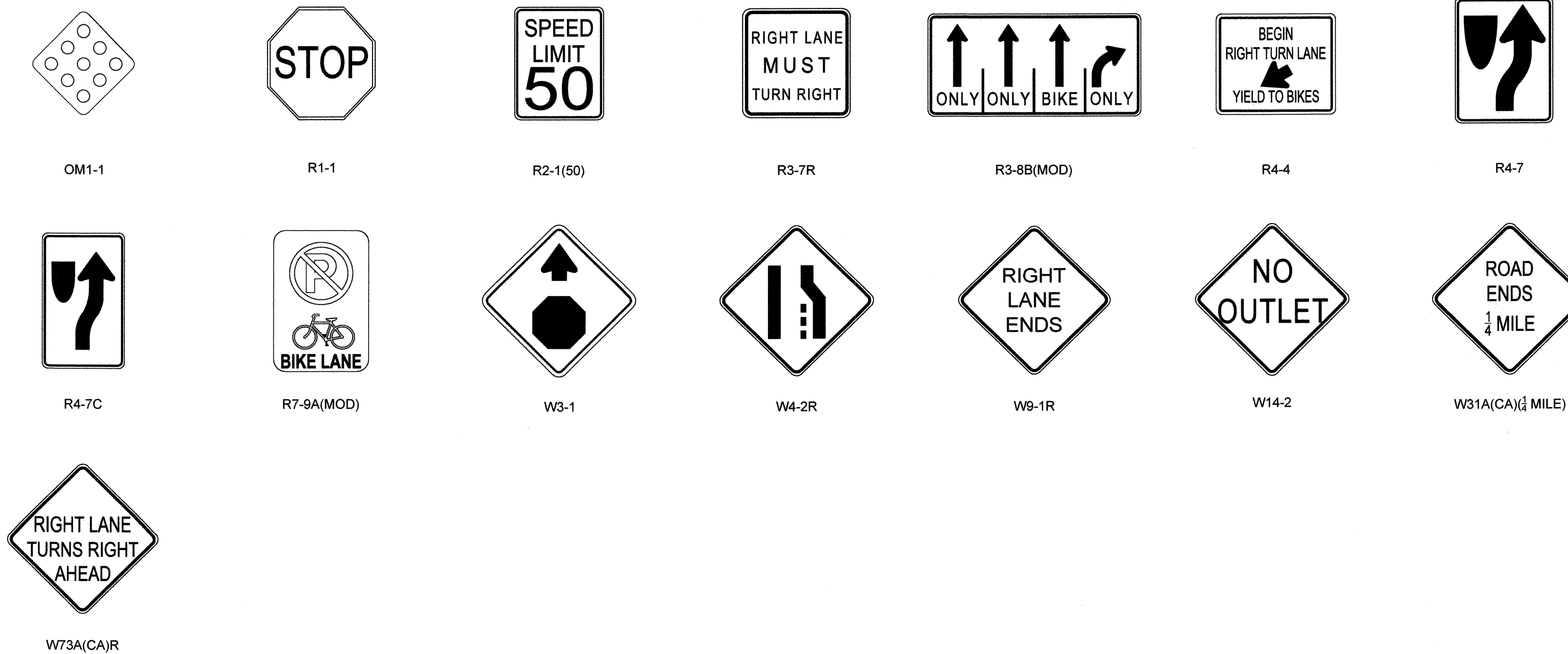
SIGNING AND MARKING GENERAL NOTES:

- ALL DETAILS AND DIMENSIONS FOR TRAFFIC STRIPES AND MARKINGS SHALL CONFORM TO THE CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) TRAFFIC MANUAL AND MAINTENANCE MANUAL, THE LATEST VERSION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AND CALIFORNIA STANDARD PLANS AND SPECIFICATIONS (2015). TRAFFIC STRIPES SHALL CONFORM TO SECTION 310-5.6 OF THE STANDARD SPECIFICATIONS (2012) AND THESE SPECIAL PROVISIONS.
- TRAFFIC LINE PAINT SHALL BE RAPID DRY CONFORMING TO SECTION 210-1.6.3 AND SHALL CONTAIN REFLECTIVE MATERIAL CONFORMING TO SECTION 210-1.6.5 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL FURNISH THE NECESSARY CONTROL POINTS FOR ALL STRIPING AND MARKINGS, AND SHALL BE RESPONSIBLE FOR THE COMPLETENESS AND ACCURACY THEREOF TO THE SATISFACTION OF THE ENGINEER.
- REFLECTORIZED PAVEMENT MARKERS SHALL BE INSTALLED ON ALL LANE LINES AND CENTERLINE STRIPING PER APPROPRIATE CALTRANS "DETAIL NUMBER" PAVEMENT MARKERS SHALL CONFORM TO SECTION 81-3, "PAVEMENT MARKERS" OF THE CALTRANS STANDARD SPECIFICATIONS, AND THESE SPECIAL PROVISIONS. PAVEMENT MARKER HEIGHT SHALL BE 0.70-INCH MINIMUMS. "LOW PROFILE" TYPE MARKERS WILL NOT BE ACCEPTABLE.
- BLUE REFLECTORIZED PAVEMENT MARKER FOR FIRE HYDRANT LOCATION TO BE INSTALLED PER SAN DIEGO REGIONAL STANDARD DRAWING M-19.
- NOTHING IN THESE PLANS SHALL RELIEVE THE CONTRACTOR FROM HIS/HER RESPONSIBILITIES AS PROVIDED IN SECTION 7-1.04, "PUBLIC SAFETY," OF THE CALTRANS STANDARD SPECIFICATIONS, SECTION 7-10 OF THE GREEN BOOK.
- USE HOT APPLIED "THERMOPLASTIC" MATERIALS FOR CROSSWALKS, LIMIT LINES AND PAVEMENT LEGENDS. SEE SECTION 84-2 OF CALTRANS STANDARD SPECIFICATIONS.
- PAINTING TRAFFIC STRIPES (TRAFFIC LINES) & PAVEMENT MARKINGS SHALL CONFORM TO SECTION 84-1, "GENERAL", & 84-2, "TRAFFIC STRIPES & PAVEMENT MARKINGS", OF THE CALTRANS STANDARD SPECIFICATIONS.
- CONTROL OF ALIGNMENT AND LAYOUT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUBJECT TO APPROVAL BY THE ENGINEER.
- SECTION 84-2.02C, "PAINT", OF THE CALTRANS STANDARD SPECIFICATIONS IS AMENDED TO READ:
 PAINT FOR TRAFFIC STRIPES SHALL CONFORM TO THE FOLLOWING STATE SPECIFICATIONS:

PAINT	STATE SPECIFICATION NO.
WATER-BORNE, WHITE, YELLOW, AND BLACK	# PTVB-01R2

 THE COLOR OF PAINTED TRAFFIC STRIPES MUST COMPLY WITH ASTM D6628.
- GLASS BEADS SHALL CONFORM TO STATE SPEC. NO. 8010-004.
- COPIES OF STATE SPECIFICATIONS FOR THERMOPLASTIC MATERIAL AND GLASS BEADS MAY BE OBTAINED FROM THE TRANSPORTATION LABORATORY, P.O. BOX 19128, SACRAMENTO, CA 95819. TEL (916)739-2400
- THINNING OF PAINT WILL NOT BE ALLOWED.
- PAINT SHALL BE TESTED PRIOR TO USE, OR THE MANUFACTURER SHALL PROVIDE THE CITY ENGINEER WITH A CERTIFICATE OF COMPLIANCE IN ACCORDANCE WITH SECTION 6-1.07, "CERTIFICATE OF COMPLIANCE", OF THE STANDARD SPECIFICATIONS. SAID CERTIFICATE SHALL CERTIFY THAT THE PAINT COMPLIES WITH THE SPECIFICATIONS AND THAT PAINT MANUFACTURED TO THE SAME FORMULATION AND PROCESS HAS PREVIOUSLY PASSED STATE TESTING. A LIST OF MANUFACTURERS THAT HAVE PRODUCED PAINT MEETING STATE SPECIFICATION IS AVAILABLE FROM THE STATE'S TRANSPORTATION LABORATORY. MATERIAL SUPPLIED BY MANUFACTURERS OTHER THAN THOSE THAT HAVE MANUFACTURED APPROVED PAINT WILL REQUIRE COMPLETE TESTING.
- ON NEW SURFACING, THE FIRST COAT OF PAINT FOR TRAFFIC STRIPING SHALL BE APPLIED NO LATER THAN 24 HOURS FOLLOWING COMPLETION OF ROLLING. THE SECOND COAT SHALL BE COMPLETED NO LATER THAN 4:00 P.M. OF THE FOLLOWING WORKDAY.
- THE CONTRACTOR SHALL BE REQUIRED TO PAINT TRAFFIC STRIPES AND PAVEMENT MARKINGS AND INSTALL RAISED PAVEMENT MARKERS PER CALTRANS STANDARD PLANS.
- INSIDE DIMENSION OF ALL CROSSWALKS TO BE 10 FEET PER CITY STANDARD DRAWING TRF-11 UNLESS SHOWN OTHERWISE.
- ALL NEW SANDBLASTING OF REDUNDANT STRIPING SHALL BE COMPLETED WITHIN 48 HOURS OF THE CHANGES.
- EXISTING TRAFFIC STRIPES AND MARKINGS THAT DO NOT CONFORM TO THE PLANS SHALL BE REMOVED BY SANDBLASTING. ALL SANDBLASTED AREAS SHALL BE REPAVED BY APPLYING A SEAL COAT OR OTHER APPROVED METHODS IN ORDER TO RESTORE THE PAVEMENT'S EXISTING CONDITION.
- SPOTTING SHALL BE COMPLETED PRIOR TO THE REMOVAL OF ANY EXISTING STRIPES. EXISTING STRIPES AND MARKINGS SHALL BE REMOVED PRIOR TO PAINTING NEW ONES, BUT IN NO CASE SHALL ANY SECTION OF STREET BE LEFT WITHOUT PROPER STRIPING FOR MORE THAN 24 HOURS, OR OVER WEEKENDS OR HOLIDAYS.
- CONTRACTOR SHALL REMOVE PAVEMENT LEGENDS/MARKINGS, TRAFFIC STRIPING, AND ASSOCIATED RAISED PAVEMENT MARKERS WITHIN THE LIMITS OF PROPOSED IMPROVEMENTS.
- IF, FOR ANY REASON, THERE WILL BE A PERIOD OF TIME AFTER REMOVAL OF EXISTING STRIPING AND PAINTING OF NEW STRIPING DURING WHICH PUBLIC TRAFFIC WILL USE ALL OR A PORTION OF ANY ROADWAY IN THE PROJECT AREA, THE CONTRACTOR SHALL PROVIDE TEMPORARY DELINEATION WITH "CHIP SEAL MARKERS," WHITE (ONE WAY), AND YELLOW (TWO-WAY), TEMPORARY PAVEMENT MARKERS, BOTH TYPES WITH REFLECTIVE STRIPS, OR APPROVED EQUAL. THESE MARKERS SHALL BE EITHER WHITE OR YELLOW, AS DIRECTED BY THE PUBLIC WORKS INSPECTOR, AND SHALL BE AT MAXIMUM 24-FOOT CENTERS. THE MARKER WILL BE PLACED EITHER ON THE OLD LINES, WHICH WERE JUST REMOVED, OR ON NEW LINES LAID OUT BY THE CONTRACTOR, AS DIRECTED BY THE CITY ENGINEER. THE FURNISHING AND INSTALLING OF THESE MARKERS SHALL BE IN ADDITION TO ANY OTHER DELINEATION (CONES, SIGNS, BARRICADES, ETC.), WHICH ARE REQUIRED FOR PUBLIC SAFETY. AFTER CONTRACTOR HAS PAINTED THE NEW STRIPING, CONTRACTOR SHALL REMOVE AND DISPOSE OF THESE TEMPORARY PAVEMENT MARKERS.
- ALL SIGNS REMOVED AND SALVAGED SHALL BE DELIVERED TO THE CITY CORPORATION YARD, 1800 MAXWELL ROAD. ATTENTION: DAVID SAVAGE, SIGNS AND STRIPING SUPERVISOR AT (619) 397-6207.
- THE CONTRACTOR SHALL FURNISH NEW VANDAL PROOF NUTS, BOLTS, WASHERS, FRAMEWORK AND OTHER MOUNTING HARDWARE.

SIGN LEGEND

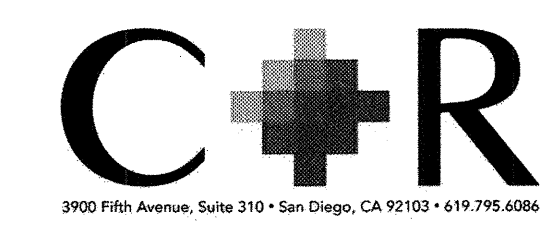
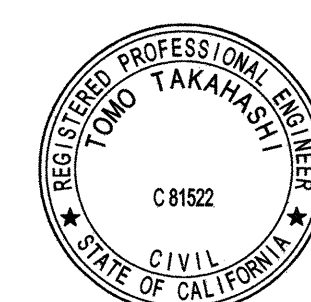


LEGEND

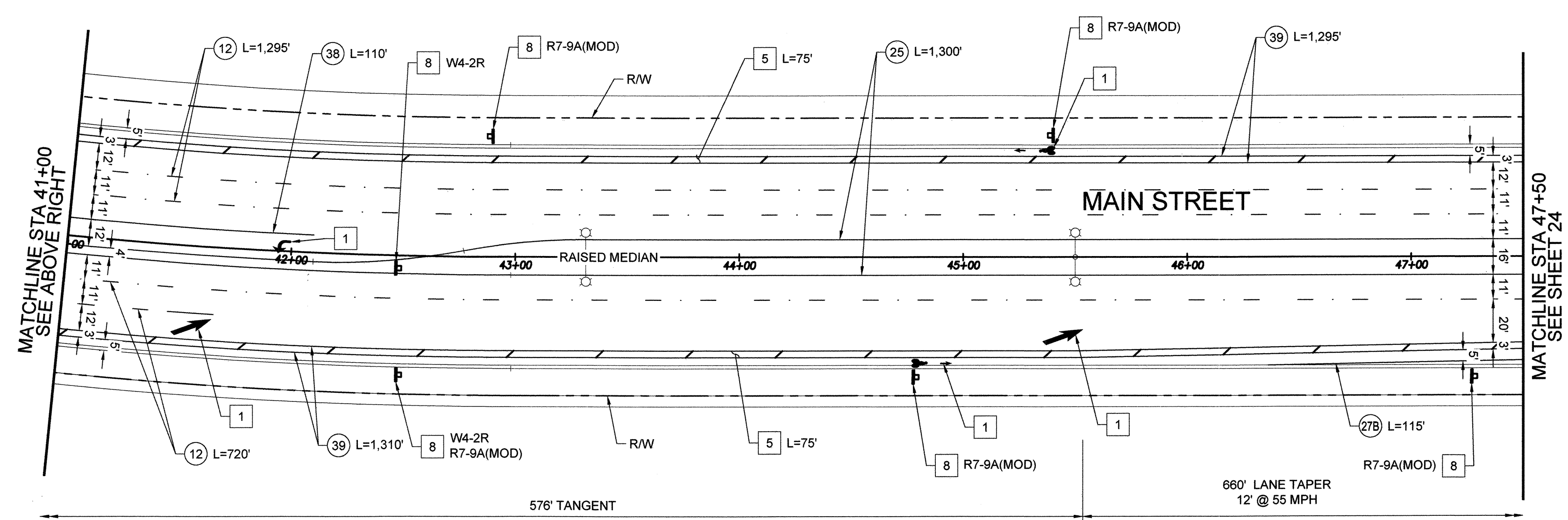
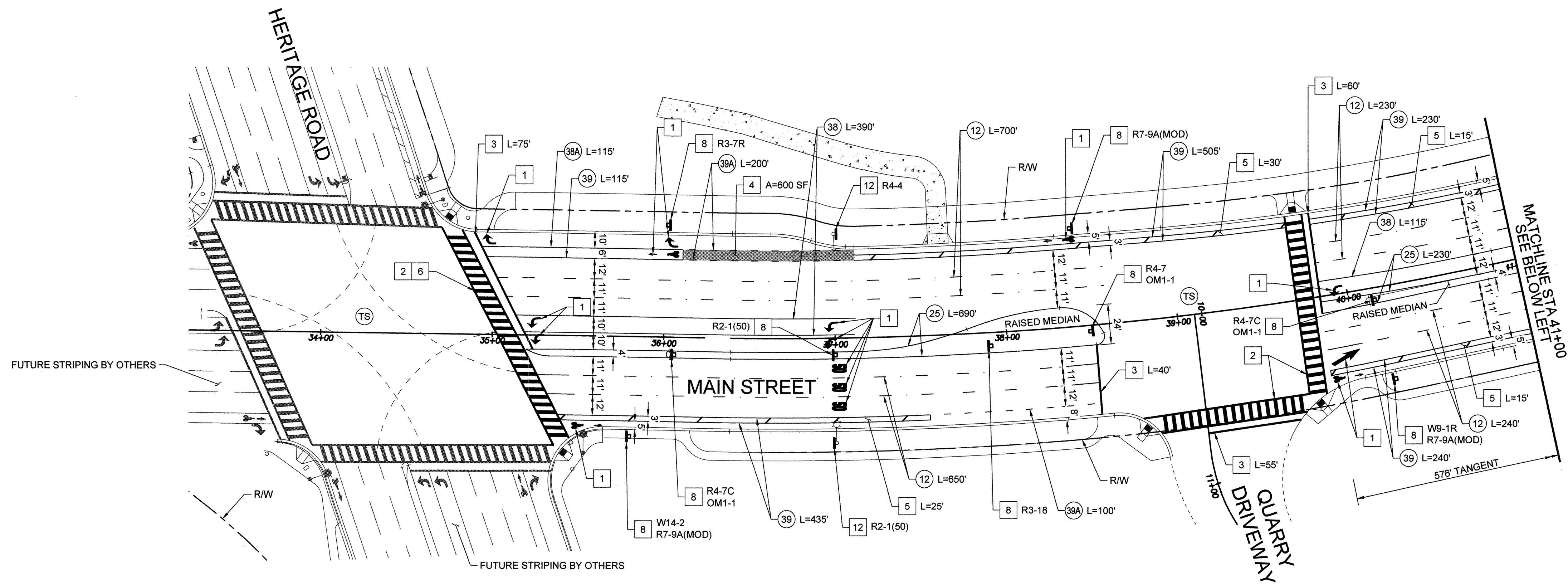
- XX' NEW LANE WIDTH OR LENGTH OF NEW STRIPING
- NEW ONE POST SIGN
- NEW SIGN ON LIGHT POLE
- XX STRIPING DETAIL PER LATEST CALTRANS STANDARD PLANS
- TS TRAFFIC SIGNAL
- BIKE LANE ARROW PER CALTRANS STANDARD PLAN A24A
- BIKE LANE WITH PERSON SYMBOL PAVEMENT MARKING PER CALTRANS STANDARD PLAN A24C
- TYPE IV ARROW PER CALTRANS STANDARD PLAN A24A
- TYPE VI ARROW PER CALTRANS STANDARD PLAN A24A
- TYPE IX ARROW PER CALTRANS STANDARD PLAN A24H
- "STOP" PAVEMENT MARKING PER CALTRANS STANDARD PLAN A24D
- "AHEAD" PAVEMENT MARKING PER CALTRANS STANDARD PLAN A24D
- NUMERAL PAVEMENT MARKING PER CALTRANS STANDARD PLAN A24C

<p>UTILITY NOTE</p> <p>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.</p>	<p>CITY "AS-BUILT"</p> <p>DATE _____</p> <p>(SIGNATURE) _____</p> <p>ALISA S. VIALPANDO P.E. NO.: 47945</p> <p>(PRINTED NAME)</p> <p>MY REGISTRATION EXPIRES: _____ DISCIPLINE: CIVIL</p>
---	--

CONTRACTOR	C.C.V. DWG. 16026	BY	REVISIONS	Date	App'd	DATUM	SCALE	Designed By	Drawn By	Checked By	Submitted: 4/20/2023	Approved: 4/21/2023	CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT	DRAWING NO.
Inspector:	C.C.V. DWG. 14032					DESCRIPTION: BRASS DISK MARKED "SD CITY ENGR." IN 3/4" IRON PIPE, 1.5 MILES EAST OF INTERSECTION OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROMONT 10' HIGH BOULDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT. #1359 PER R.O.S. 1484) ELEV. 628.319 DATUM: NAVD '88 [NAVD '22]	Horizontal	J.W.	J.W.	T.T.	By: [Signature]	By: [Signature]	SIGNING AND MARKING PLANS FOR:	22001-22
Date Completed:	C.C.V. DWG. 21045						Vertical	Plans Prepared Under Supervision Of	Date: 3/6/2023		Traffic: [Signature]	Principal Civil Engineer	MAIN STREET CHULA VISTA TRACT NO. 16-02	W.O. No. IP220003
	C.C.V. DWG. 20024						N/A	TOMO TAKAHASHI	R.C.E. No. 81522					

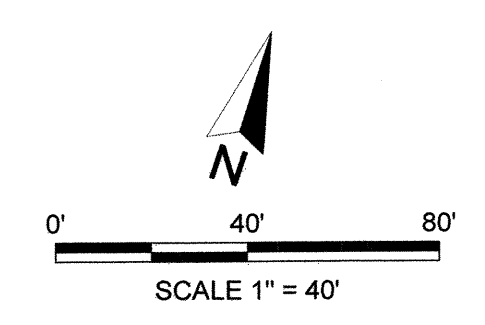


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CONSTRUCTION NOTES

- 1 FURNISH AND INSTALL WHITE THERMOPLASTIC PAVEMENT MARKING PER CALTRANS STD PLAN. SEE LEGEND ON SIGNING AND MARKING TITLE SHEET.
- 2 FURNISH AND INSTALL WHITE THERMOPLASTIC CONTINENTAL CROSSWALK PER CITY OF CHULA VISTA ENGINEERING AND CAPITAL PROJECT STANDARD DRAWING TRF-11.
- 3 FURNISH AND INSTALL 12" WHITE THERMOPLASTIC LIMIT LINE MINIMUM 4' FROM CROSSWALK WHERE SHOWN.
- 4 FURNISH AND INSTALL SOLID GREEN BICYCLE MARKING. THE GREEN MARKING SHALL BE EPOXY-MODIFIED, WATER BASED ACRYLIC COATING OR PREFORMED THERMOPLASTIC AND SHALL PROVIDE GREATER THAN 60 BPN SLIP RESISTANCE PERFORMANCE.
- 5 FURNISH AND INSTALL 6" WHITE BIKE LANE DIAGONAL BUFFER STRIPING AT 45° AND 40' SPACING.
- 6 CONFORM TO EXISTING STRIPING. BEGIN REMOVAL OF CONFLICTING STRIPING.
- 7 EXISTING SIGN TO BE REMOVED AND SALVAGED. DELIVER TO CITY OF CHULA VISTA.
- 8 FURNISH AND INSTALL NEW SIGN PER CITY OF CHULA VISTA ENGINEERING AND CAPITAL PROJECT STANDARD DRAWING TRF-10.
- 9 EXISTING SIGN TO REMAIN.
- 10 EXISTING SIGN TO BE RELOCATED.
- 11 EXISTING SIGN TO BE REMOVED.
- 12 FURNISH AND INSTALL NEW SIGN ON LIGHT POLE.
- 13 FURNISH AND INSTALL 6" WHITE DIAGONAL STRIPING AT 45° AND 50' SPACING.



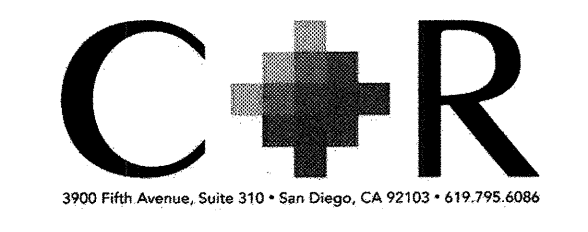
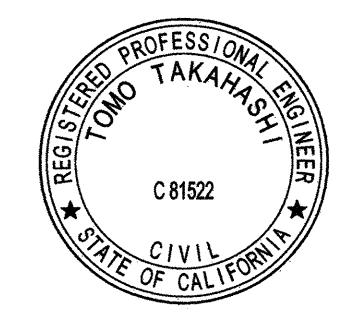
UTILITY NOTE		CITY "AS-BUILT"	
ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.		(SIGNATURE) ALISA S. VIALPANDO	DATE P.E. NO.: 47945
		MY REGISTRATION EXPIRES:	DISCIPLINE CIVIL

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd
Contractor:	C.C.V. DWG. 16026				
Inspector:	C.C.V. DWG. 14032				
Date Completed:	C.C.V. DWG. 21045				
	C.C.V. DWG. 20024				

DESCRIPTION: BRASS DISK MARKED "SD CITY ENGR" IN 3/4" IRON PIPE, 1.5 MILES EAST OF INTERSECTION OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROMONT TO HIGH SLOLIDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT. #1359 PER R.O.S. 1484) ELEV. 628.319 DATUM: NAVD_88 [NAVD_79]	SCALE Horizontal Vertical N/A	Designed By J.W. Plans Prepared Under Supervision Of TOMO TAKAHASHI	Drawn By J.W. Date 3/6/2023	Checked By T.T. R.C.E. No. 81522
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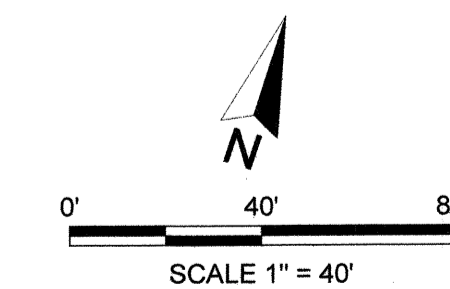
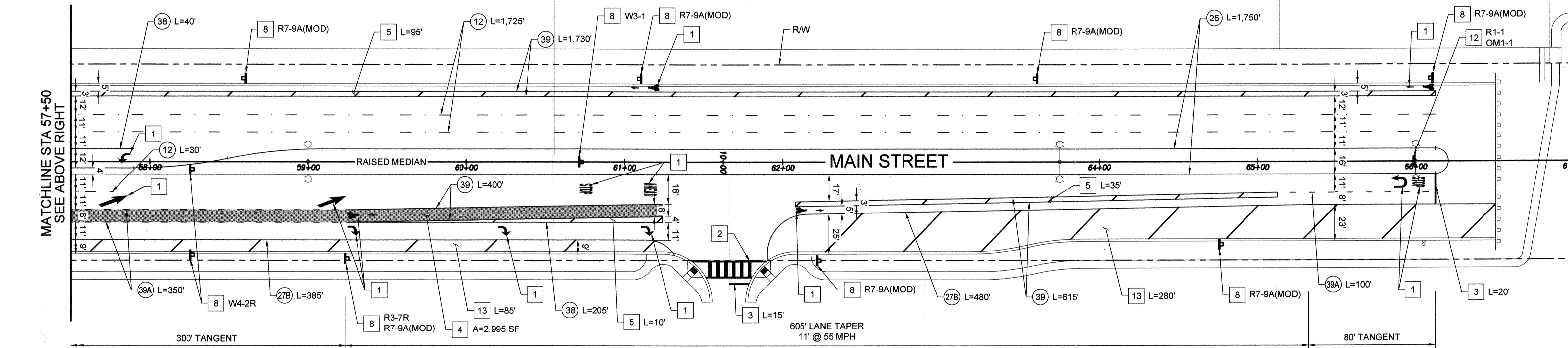
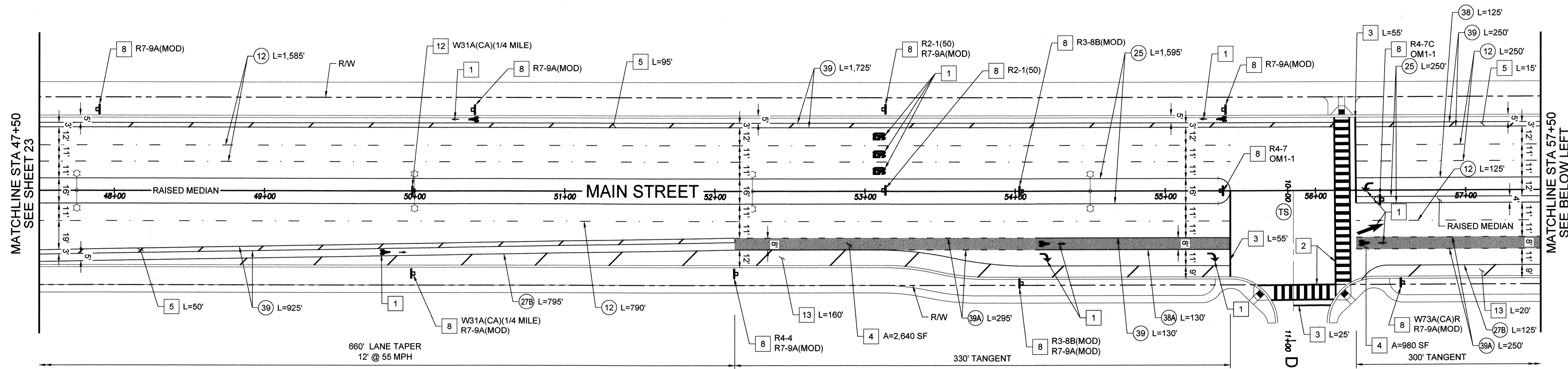
Submitted: 4/20/2023	Approved: 4/21/2023
By: <i>[Signature]</i>	By: <i>[Signature]</i>
Traffic: <i>[Signature]</i>	Principal Civil Engineer

CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT		DRAWING NO.
SIGNING AND MARKING PLANS FOR:		22001-23
MAIN STREET CHULA VISTA TRACT NO. 16-02		W.O. No. IP220063



CONSTRUCTION NOTES

- 1 FURNISH AND INSTALL WHITE THERMOPLASTIC PAVEMENT MARKING PER CALTRANS STD PLAN. SEE LEGEND ON SIGNING AND MARKING TITLE SHEET.
- 2 FURNISH AND INSTALL WHITE THERMOPLASTIC CONTINENTAL CROSSWALK PER CITY OF CHULA VISTA ENGINEERING AND CAPITAL PROJECT STANDARD DRAWING TRF-11.
- 3 FURNISH AND INSTALL 12" WHITE THERMOPLASTIC LIMIT LINE MINIMUM 4' FROM CROSSWALK WHERE SHOWN.
- 4 FURNISH AND INSTALL SOLID GREEN BICYCLE MARKING. THE GREEN MARKING SHALL BE EPOXY-MODIFIED, WATER BASED ACRYLIC COATING OR PREFORMED THERMOPLASTIC AND SHALL PROVIDE GREATER THAN 60 BPN SLIP RESISTANCE PERFORMANCE.
- 5 FURNISH AND INSTALL 6" WHITE BIKE LANE DIAGONAL BUFFER STRIPING AT 45° AND 40° SPACING.
- 6 CONFORM TO EXISTING STRIPING. BEGIN REMOVAL OF CONFLICTING STRIPING.
- 7 EXISTING SIGN TO BE REMOVED AND SALVAGED. DELIVER TO CITY OF CHULA VISTA.
- 8 FURNISH AND INSTALL NEW SIGN PER CITY OF CHULA VISTA ENGINEERING AND CAPITAL PROJECT STANDARD DRAWING TRF-10.
- 9 EXISTING SIGN TO REMAIN.
- 10 EXISTING SIGN TO BE RELOCATED.
- 11 EXISTING SIGN TO BE REMOVED.
- 12 FURNISH AND INSTALL NEW SIGN ON LIGHT POLE.
- 13 FURNISH AND INSTALL 6" WHITE DIAGONAL STRIPING AT 45° AND 50° SPACING.



UTILITY NOTE

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CITY "AS-BUILT"

(SIGNATURE) DATE
 ALISA S. VIALPANDO P.E. NO.: 47945
 (PRINTED NAME)
 MY REGISTRATION EXPIRES: DISCIPLINE CIVIL

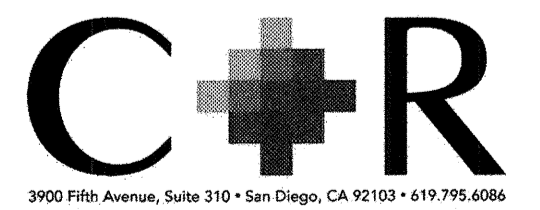
CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	DATUM
Contractor:	C.C.V. DWG. 16026					DESCRIPTION: BRASS DISK MARKED "30 CITY ENGR" IN 3/4" IRON PIPE, 1.5 MILES EAST OF INTERSECTION OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROMONT 10' HIGH SHOULDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT. #1359 PER R.O.S. 14841) ELEV. 628.319 DATUM: NAVD 88 [NAVD 29]
Inspector:	C.C.V. DWG. 14032					
Date Completed:	C.C.V. DWG. 21045					
	C.C.V. DWG. 20024					

SCALE	Designed By	Drawn By	Checked By
Horizontal	J.W.	J.W.	T.T.
Vertical	Plans Prepared Under Supervision Of		
N/A	TOMO TAKAHASHI	Date	3/6/2023
		R.C.E. No.	81522

Submitted:	4/20/2023	Approved:	4/21/2023
By:	<i>[Signature]</i>	By:	<i>[Signature]</i>
Traffic:	<i>[Signature]</i>	Principal Civil Engineer	

CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT
 SIGNING AND MARKING PLANS FOR:
MAIN STREET
 CHULA VISTA TRACT NO. 16-02

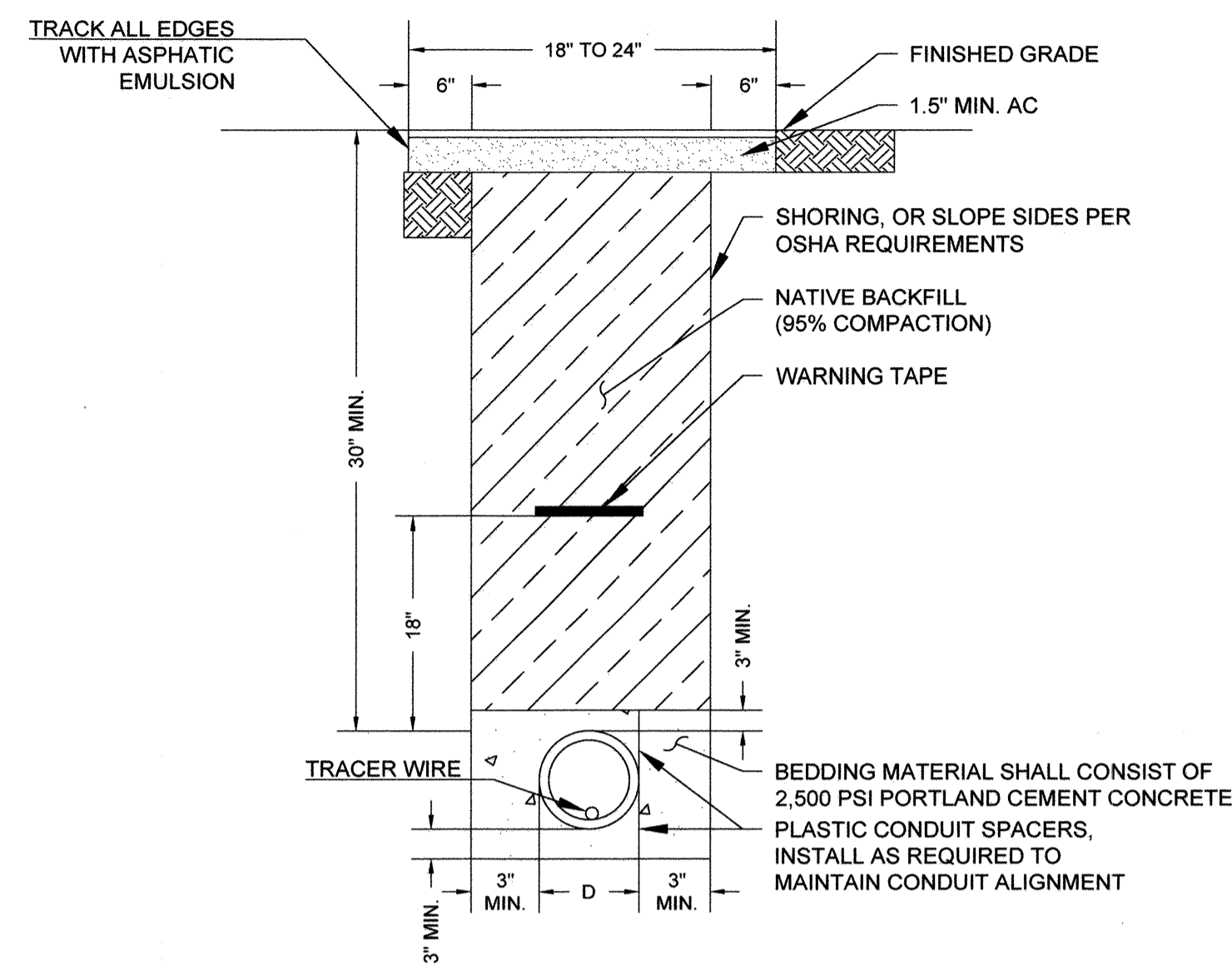
DRAWING NO.
22001-24
 W.O. No. IP220003



TRAFFIC SIGNAL GENERAL NOTES

- ALL TRAFFIC SIGNAL WORK SHALL CONFORM TO THE MOST RECENTLY ADOPTED EDITIONS OF THE CITY OF CHULA VISTA STANDARD SPECIAL PROVISIONS, THE CITY OF CHULA VISTA TRAFFIC SIGNAL EQUIPMENT SPECIFICATIONS, CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (CAMUTCD), CALIFORNIA STANDARD PLANS AND SPECIFICATIONS (2015), AND THESE SPECIAL PROVISIONS.
- EXISTING UTILITIES ARE SHOWN ON THE PLAN IN THEIR APPROXIMATE LOCATION AND EXTENT. UNDERGROUND UTILITIES MAY EXIST WHICH ARE NOT OF RECORD OR WHICH HAVE NOT BEEN REPORTED. THE CONTRACTOR SHALL TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THOSE FACILITIES AND STRUCTURES FOUND AT THE SITE. THE CONTRACTOR SHALL NOTIFY:
 - UNDERGROUND SERVICE ALERT 1-800-422-4133
 - (NOTIFICATION TO BE 48 HOURS PRIOR TO STARTING WORK)
- THE CONTRACTOR SHALL NOTIFY THE OFFICE OF THE CITY ENGINEER AND THE TRAFFIC SIGNAL SHOP 48 HOURS PRIOR TO STARTING WORK. THE CONTRACTOR SHALL GIVE 24 HOUR NOTICE ON ALL CALLS FOR INSPECTION. ANY WORK PERFORMED WITHOUT BENEFIT OF INSPECTION SHALL BE SUBJECT TO REJECTION AND REMOVAL.
 - FOR CONSTRUCTION INSPECTION CALL.....(619) 397-6128
 - TRAFFIC SIGNAL MAINTENANCE SHOP.....(619) 397-6163
- EXACT LOCATION OF SIGNAL STANDARDS, PULL BOXES, CONDUIT RUNS, AND LOOP DETECTORS TO BE DETERMINED IN THE FIELD BY CITY TRAFFIC MAINTENANCE STAFF.
- ALL VEHICULAR SIGNAL HEADS SHALL HAVE ALUMINUM BACKPLATES AND SHALL BE 12" DIAMETER WITH LED AMBER LENSES, LED GREEN LENSES, LED RED LENSES, AND POLYCARBONATE TUNNEL VISORS. LED'S MUST BE GELCORE OR APPROVED EQUAL.
- PULL BOXES SHALL BE NO. 6 UNLESS SHOWN OTHERWISE. MAXIMUM DISTANCE BETWEEN PULL BOXES SHALL BE 190'. PULL BOX LIDS SHALL BE MARKED "TRAFFIC SIGNAL".
- ALL NEW VEHICLE LOOP DETECTORS SHALL BE TYPE "E" WITH 4 TURNS PER CALTRANS STANDARD PLAN ES-5B. LOOPS SHALL BE 6" IN DIAMETER AND SPACED 16" CENTER TO CENTER. BICYCLE LOOP DETECTORS SHALL BE TYPE "Q" PER CALTRANS STANDARD PLAN ES-5B. BICYCLE LOOP DETECTORS SHALL HAVE 3 TURNS WHEN BY ITSELF, OR 5 TURNS WHEN CONNECTED IN SERIES WITH A TYPE "E" LOOP. ALL LOOPS SHALL BE POSITIONED IN THE CENTER OF THE TRAVEL LANE UNLESS OTHERWISE SHOWN.
- LOOP LEAD-IN CABLE SHALL BE TYPE B.
- ALL CONDUITS SHALL BE P.V.C. SCHEDULE 80, 2" MINIMUM. ALL CONDUITS CROSSING STREET SHALL BE SCHEDULE 80, 3" MINIMUM. NO STEEL CONDUITS ARE ALLOWED.
- PEDESTRIAN SIGNAL INDICATIONS SHALL BE POLYCARBONATE L.E.D FILLED FIGURES, COUNTDOWN TYPE. PEDESTRIAN PUSH BUTTONS SHALL BE POLARA APS IN2 OR APPROVED EQUAL AND SHALL CONFORM TO A.D.A. (AMERICAN WITH DISABILITIES ACT) REQUIREMENTS AND SHOULD BE LARGE (2 INCHES IN DIAMETER). THE CONTRACTOR SHALL FURNISH AND INSTALL PEDESTRIAN INDICATIONS AND PUSH BUTTONS PER PLAN AND ONE ADDITIONAL SPARE EACH TO BE DELIVERED TO THE CITY CORPORATION YARD.
- ALL 9"X15" R10-3E PEDESTRIAN PUSH BUTTON SIGNS SHALL CONTAIN THE DOUBLE SIDED FOUR (4) PART PEDESTRIAN INSTRUCTIONS FOR SAFE INTERSECTION CROSSING AND INDICATION ARROWS. ALL MOUNTING HARDWARE MUST BE NON-CORROSIVE METAL, DRILLED AND TAPPED (NO SELF-TAPPING SCREWS).
- REFLECTIVE STREET NAME SIGNS SHALL BE INSTALLED BY THE CONTRACTOR ON SIGNAL MAST ARMS PER CITY STANDARD DRAWING TRF-07. ALL OTHER TRAFFIC SIGNS MOUNTED ON TRAFFIC SIGNALS SHALL COMPLY WITH THE CITY SHEETING AND REFLECTIVITY REQUIREMENTS.
- PROVIDE AND INSTALL DISCRIMINATOR (PHASE SELECTOR) 4-CHANNEL MODEL 764 MODULES (1 BACKUP SPARE).
- FOUNDATION FOR THE MODEL 332L CONTROLLER CABINET SHALL BE PER CALTRANS STANDARD ES-3C.
- SAFETY LIGHTING: USE 145 WATT LED STREET LIGHTS IN CUTOFF LUMINAIRES, MULTI-VOLT TAP.
- TRAFFIC SIGNAL CABLE: USE CABLES WITH THE CORRESPONDING NUMBER OF CONDUCTORS AS SHOWN IN THE CONDUCTOR SCHEDULE. ALL CABLES SHALL BE UNSPLICED AND SHALL TERMINATE AT THE TERMINAL BOARD OF EACH TRAFFIC SIGNAL STANDARD ONLY. EACH STANDARD SHALL HAVE A MINIMUM OF (3) SPARE CONDUCTORS.
- INSTALL SINGLE-CHANNEL OPTICAL DETECTORS PER CITY STANDARD DRAWING TRF-06. CONTRACTOR TO DRILL AND TAP MAST ARM FOR WEATHER-PROOF ELECTRICAL CONNECTION OF THE E.V.P.E. DETECTOR. INCLUDE (1) SPARE 721 DETECTOR.
- EXISTING MONUMENTS OR BENCHMARKS DISTURBED OR DESTROYED BY THE CONTRACTOR'S OPERATIONS WILL BE RE-ESTABLISHED AND REPLACED BY A REGISTERED CIVIL ENGINEER WHO IS ALLOWED TO PRACTICE LAND SURVEYING OR A LICENSED LAND SURVEYOR AT CONTRACTOR'S EXPENSE AND PROPERTY CORNER RECORDS OR RECORD OF SURVEY FIELD AS REQUIRED BY THE LAND SURVEYOR'S ACT.
- CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY OR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PRODUCT, INCLUDING SAFETY OF ALL PERSONAS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE CITY REPRESENTATIVES HARMLESS FROM ANY AND ALL LIABILITY, REAL AND/OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORKING ON THIS PROJECT.
- TRAFFIC SIGNAL CONTROLLER CABINETS SHALL BE MADE OF ANNOZIZED ALUMINUM. CONTRACTOR SHALL PROVIDE ALL NEW TRAFFIC SIGNAL EQUIPMENT PER PLAN. ALL EQUIPMENT FURNISHED BY THE CONTRACTOR SHALL CONFORM TO THE TECHNICAL SPECIFICATION OUTLINED IN THE CITY OF CHULA VISTA "TRAFFIC SIGNAL EQUIPMENT SPECIFICATION". A COPY OF THIS SPECIFICATION CAN BE OBTAINED FROM THE CITY TRAFFIC ENGINEERING DEPARTMENT.
- TESTING OF MATERIAL SHALL BE PER CITY OF CHULA VISTA REQUIREMENTS. PROPER TESTING CERTIFICATION SHALL BE PRESENTED TO THE CITY REPRESENTATIVE FOR APPROVAL PRIOR TO INSTALLATION. ALL TESTING INCLUDING TRANSPORTATION TO AND FROM THE TESTING FACILITY SHALL BE AT THE CONTRACTORS EXPENSE. THE 332L AND COMPONENTS TO BE DELIVERED TO 1800 MAXWELL ROAD, CHULA VISTA, CA TWO (2) WEEKS PRIOR TO FIELD INSTALLATION.
- ALL 4" FIBER OPTIC INTERCONNECT SHALL BE INSTALLED PER TRENCH DETAIL ON THIS SHEET.
- CONTRACTOR SHALL FURNISH AND INSTALL FIBER OPTIC SPLICE ENCLOSURES IN VAULTS ADJACENT TO TRAFFIC SIGNAL CONTROLLERS CONNECTING THE FIBER OPTIC TRUNK TO THE FIBER OPTIC BRANCH CABLE. FINAL PLACEMENT OF VAULTS TO BE DETERMINED IN THE FIELD BY CITY TRAFFIC MAINTENANCE STAFF.
- THE CONTRACTOR SHALL SUBMIT A FIBER TERMINATION DIAGRAM FOR APPROVAL PRIOR TO TERMINATING FIBERS. FIBER INSTALLATION SHALL BE PER CITY OF CHULA VISTA REQUIREMENTS.

FIBER OPTIC INTERCONNECT TRENCH DETAIL A
NTS



WARNING TAPE

- WARNING TAPE SHALL BE PROVIDED AND PLACED IN THE TRENCH OVER CONDUITS CONTAINING FIBER OPTIC CABLE AS SHOWN ON THE PLANS. THE WARNING TAPE SHALL BE 4 INCHES (101.6 MM) WIDE WITH BOLD PRINTED BLACK LETTERS OF APPROXIMATELY 3/4 INCH (19.1 MM) ON BRIGHT ORANGE COLOR BACKGROUND, AND CONTAIN THE PRINTED WARNING "CAUTION - BURIED FIBER OPTIC CABLE" REPEATED AT APPROXIMATELY 30 INCH (76.2 CM) INTERVALS. THE PRINTED WARNING SHALL BE NON-ERASABLE AND SHALL BE RATED TO LAST WITH THE TAPE FOR A MINIMUM OF 40 YEARS. THE CONSTRUCTION OF THE WARNING TAPE SHALL BE SUCH THAT IT WILL NOT DELAMINATE WHEN IT IS WET. IT SHALL BE RESISTANT TO INSECTS, ACID, ALKALINE AND OTHER CORROSIVE ELEMENTS IN THE SOIL. IT SHALL HAVE A MINIMUM OF 120 POUNDS (530 N) TENSILE STRENGTH AND SHALL HAVE A MINIMUM OF 700% ELONGATION BEFORE BREAKAGE.
- THE WARNING TAPE SHALL BE THE DETECTABLE TYPE WITH A CONTIGUOUS CONDUCTOR IN THE FORM OF A COPPER WIRE OR ALUMINIZED FOIL, ENCASED IN A PROTECTIVE PLASTIC JACKET. THE ALUMINIZED FOIL SHALL BE 0.35 MILS THICK. SEPARATE ROLLS OF THE WARNING TAPE SHALL BE ELECTRICALLY CONNECTED BY CORROSION RESISTANT CLIPS OR BY SOLDERING. THE ENDS OF WARNING TAPE SHALL EXTEND INTO PULL BOXES AND SPLICE VAULTS A MINIMUM OF 24 INCHES (609.6 MM) FOR FUTURE CONNECTION TO A WARNING SIGNAL DEVICE. THE CONTINUITY AND DETECTABILITY OF THE WARNING TAPE, FOR THE ENTIRE CONDUIT RUN, SHALL BE DEMONSTRATED PRIOR TO, AND AGAIN AFTER BACKFILLING EACH TRENCH, TO THE SATISFACTION OF THE ENGINEER.
- WARNING TAPE SHALL BE CONDUX INTERNATIONAL, INC.; ALLEN SYSTEM, INC.; REFF INDUSTRIES, INC.; OR APPROVED EQUAL.

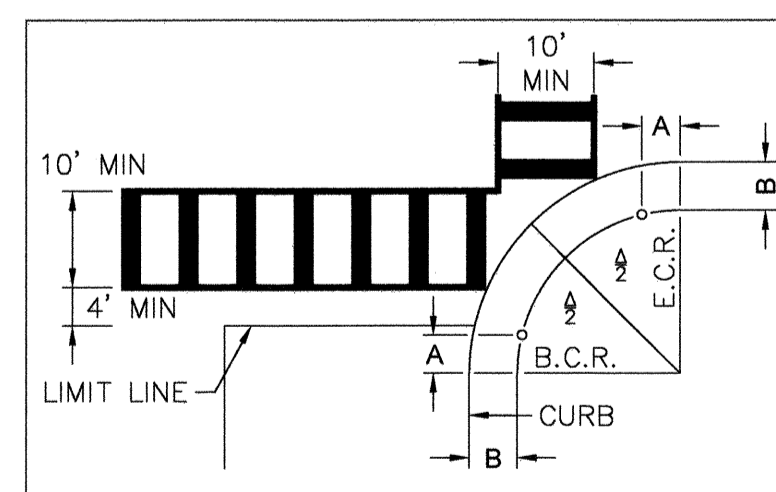
TRACE WIRE

- A TRACE WIRE SHALL BE INSTALLED IN THE ENTIRE FIBER OPTIC CABLE ROUTE FOR USE IN ACTIVE CABLE LOCATION. THE TRACE WIRE SHALL BE A #8 AWG BARE-COPPER SOLID WIRE.
- NO INSULATION OR OTHER COATING MATERIAL SHALL BE ON THE TRACE WIRE. THE TRACE WIRE SHALL BE TERMINATED BY CONNECTING TO THE GROUND RODS AT THE PULL BOXES AS NOTED IN THE PLANS.

COLORLED CONCRETE ENCASEMENT

- THE CONCRETE ENCASEMENT FOR THE TRENCHES WITH CONDUITS THAT WILL CONTAIN FIBER OPTIC CABLE SHALL BE A MEDIUM-TO-DARK RED OR ORANGE COLOR 2 POUNDS (1 KG) OF COLOR PIGMENT PER SACK OF CEMENT) TO CLEARLY DISTINGUISH THE CONCRETE ENCASEMENT FROM OTHER CONCRETE AND SOIL. THE CONCRETE SHALL BE PIGMENTED BY THE ADDITION OF COMMERCIAL QUALITY CEMENT PIGMENT TO THE CONCRETE MIX. THE RED OR ORANGE CONCRETE PIGMENT SHALL BE LM SCOFIELD COMPANY; ORANGE CHROMIX COLORANT; DAVIS COLORS, OR APPROVED EQUAL.

SIGNAL POLE PLACEMENT DETAIL

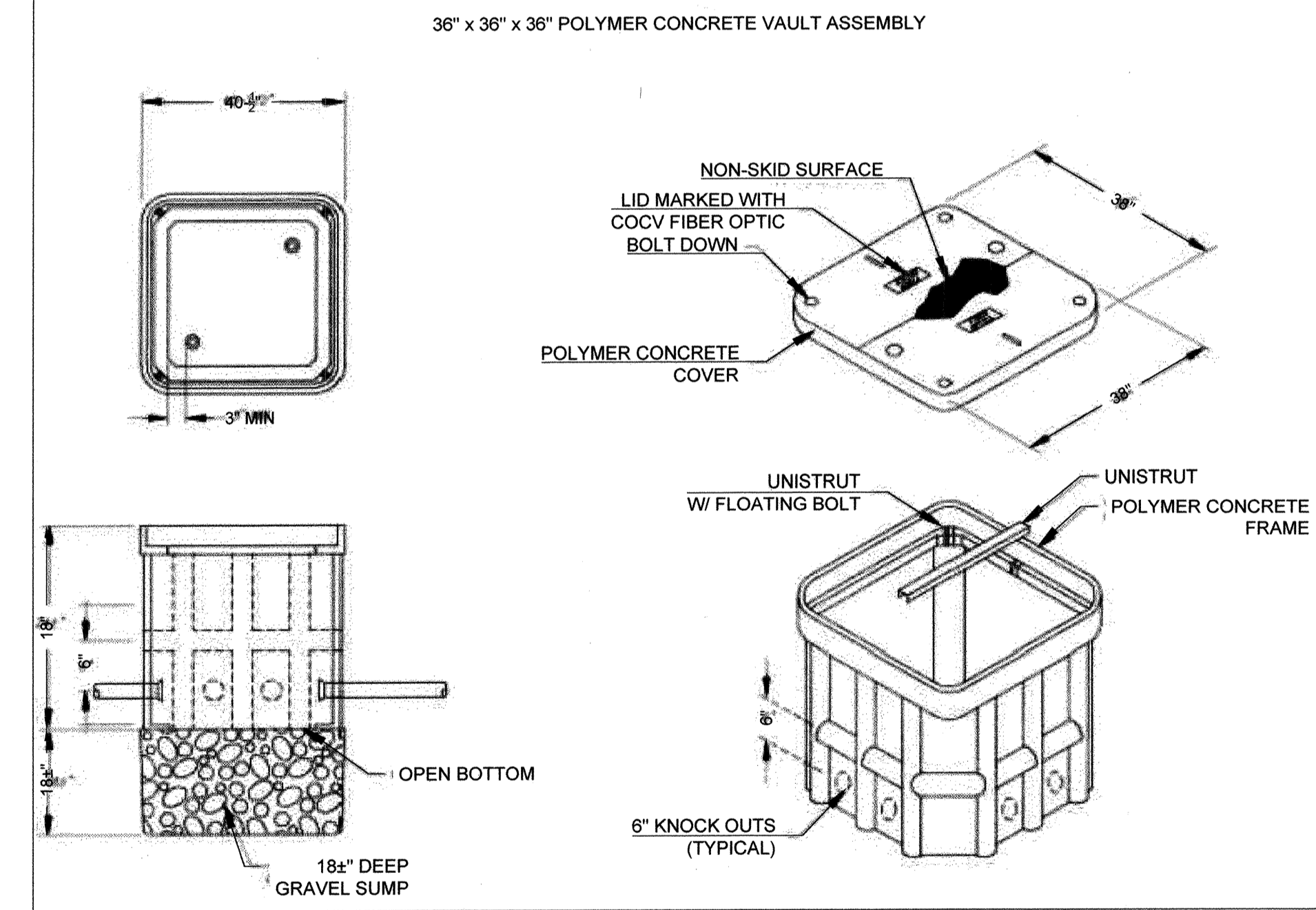


LEGEND

- PEDESTRIAN SIGNAL HEAD
- SERVICE METER
- TRAFFIC CONTROL CABINET
- LUMINAIRE
- SIGN ON MAST ARM
- SIGN ON POLE
- TRAFFIC SIGNAL POLE
- VIDEO DETECTION FIELD
- EMERGENCY VEHICLE PREEMPTION
- VEHICULAR INDICATION (R,Y,G)
- VEHICULAR INDICATION (PER PLAN)
- VAULT*
- PULLBOX
- CCTV CAMERA
- VIDEO DETECTION CAMERA
- SIGNAL CONDUIT
- LOOP DETECTOR (TYPE E)
- LOOP DETECTOR (TYPE E MODIFIED)
- VEHICLE SIGNAL HEAD WITH LOUVRE
- EXISTING PEDESTRIAN SIGNAL HEAD
- EXISTING SERVICE METER
- EXISTING TRAFFIC CONTROL CABINET
- EXISTING LUMINAIRE
- EXISTING SIGN ON MAST ARM
- EXISTING SIGN ON POLE
- EXISTING TRAFFIC SIGNAL POLE
- EXISTING VIDEO DETECTION FIELD
- EXISTING EMERGENCY VEHICLE PREEMPTION
- EXISTING VEHICULAR INDICATION
- EXISTING VAULT
- EXISTING PULLBOX
- EXISTING VIDEO DETECTION CAMERA
- EXISTING SIGNAL CONDUIT

*FIBER OPTIC SPLICE VAULT 40 1/2" X 40 1/2" X 24" WITH 38" X 38" POLYMER CONCRETE COVER LABELED "FIBER OPTICS".

SPLICE VAULT DETAILS
NOT TO SCALE



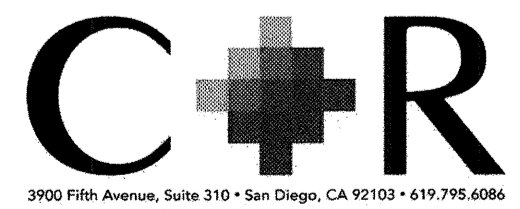
UTILITY NOTE

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
ALISA S. VIALPANDO P.E. NO.: 47945
(PRINTED NAME)
MY REGISTRATION EXPIRES: DISCIPLINE CIVIL

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	DATUM	SCALE	Designed By	Drawn By	Checked By	Submitted:	Approved:	CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT	DRAWING NO.
Contractor:	C.C.V. DWG. 16026					DESCRIPTION: BRASS DISK MARKED "30 CITY ENGR" IN 3/4" IRON PIPE, 1.5 MILES EAST OF INTERSECTION OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERN OF PROMINENT 10' HIGH BOLLIDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT. #1359 PER R.O.S. 14841) ELEV. 628.319	Horizontal	T.T.	T.T.		04/02/23	4/21/2023	TRAFFIC SIGNAL TITLE SHEET FOR: MAIN STREET CHULA VISTA TRACT NO. 16-02	22001-25 W.O. No. IP220003
Inspector:	C.C.V. DWG. 14032					Vertical	Plans Prepared Under Supervision Of	Date	3/6/2023		Principal Civil Engineer			
Date Completed:	C.C.V. DWG. 21045					N/A	TOMO TAKAHASHI	R.C.E. No.	81522					
	C.C.V. DWG. 20024					N/A								



POLE & EQUIPMENT SCHEDULE																
NO.	STANDARD					LUM.		PLACEMENT		MOUNTING AND PLACEMENT					RSNS W/ CITY LOGO & BLOCK NO.	NOTES
	TYPE	HEIGHT	SIG. M.A.	LUM. M.A.	LED	A	B	VEHICLE SIGNAL			PED SIGNAL		PUSH BUTTON			
								MOUNTING	INDICATION	PHASE	MOUNTING	PHASE	LOCATION	PHASE		
(A)	(1-A)	(10')	-	-	-	EX.	EX.	TV-2-T	(RA, YA, GA)* R, Y, G	(Ø3) Ø8	SP-1-T	Ø4P	Ø6P	-	REMOVE EXISTING TV-1-T MOUNTING AND REPLACE WITH NEW TV-2-T MOUNTING. RELOCATE EXISTING Ø4 SIGNAL HEAD TO NEW MOUNTING.	
(B)	(61-5-100)	(30')	(65')	(15')	(145W)	EX.	EX.	(MAS) (MAS) (SV-1-T)	(R, Y, G, GA)* R, Y, G (R, Y, G)	(Ø3) (Ø8) (Ø8)	SP-1-T	Ø8P	Ø6P	(MAIN ST)	RELOCATE EXISTING Ø3 SIGNAL HEAD TO END OF MAST ARM ON EXISTING TENON PER PLAN. FURNISH AND INSTALL NEW Ø8 SIGNAL HEAD ON EXISTING TENON.	
(C)	(1-A)	(10')	-	-	-	EX.	EX.	TV-2-T	(RA, YA, GA)* R, Y, G	(Ø5) Ø6	SP-1-T	Ø6P	Ø8P	-	REMOVE EXISTING TV-1-T MOUNTING AND REPLACE WITH NEW TV-2-T MOUNTING. RELOCATE EXISTING Ø6 SIGNAL HEAD TO NEW MOUNTING.	
(D)	(61-5-100)	(30')	(65')	(15')	(145W)	EX.	EX.	(MAS) (MAS) (SV-1-T)	(RA, YA, GA)* R, Y, G (R, Y, G)	(Ø5) (Ø2) (Ø2)	SP-1-T	Ø2P	Ø8P	(HERITAGE RD)	RELOCATE EXISTING Ø5 SIGNAL HEAD TO END OF MAST ARM ON EXISTING TENON PER PLAN. FURNISH AND INSTALL NEW Ø2 SIGNAL HEAD ON EXISTING TENON.	
(E)	(1-A)	(10')	-	-	-	EX.	EX.	TV-2-T	(RA, YA, GA)* R, Y, G	(Ø7) Ø8	SP-1-T	Ø8P	Ø2P	-	REMOVE EXISTING TV-1-T MOUNTING AND REPLACE WITH NEW TV-2-T MOUNTING. RELOCATE EXISTING Ø8 SIGNAL HEAD TO NEW MOUNTING.	
(F)	(61-5-100)	(30')	(65')	(15')	(145W)	EX.	EX.	(MAS) (MAS) (SV-1-T)	(RA, YA, GA)* R, Y, G (R, Y, G)	(Ø7) (Ø4) (Ø4)	SP-1-T	Ø4P	Ø2P	(MAIN ST)	RELOCATE EXISTING Ø7 SIGNAL HEAD TO END OF MAST ARM ON EXISTING TENON PER PLAN. FURNISH AND INSTALL NEW Ø4 SIGNAL HEAD ON EXISTING TENON.	
(G)	(1-A)	(10')	-	-	-	EX.	EX.	TV-2-T	(RA, YA, GA)* R, Y, G	(Ø1) Ø2	SP-1-T	Ø2P	Ø4P	-	REMOVE EXISTING TV-1-T MOUNTING AND REPLACE WITH NEW TV-2-T MOUNTING. RELOCATE EXISTING Ø2 SIGNAL HEAD TO NEW MOUNTING.	
(H)	(61-5-100)	(30')	(65')	(15')	(145W)	EX.	EX.	(MAS) (MAS) (SV-1-T)	RA, YA, GA R, Y, G (R, Y, G)	(Ø1) (Ø6) (Ø6)	SP-1-T	Ø6P	Ø4P	(HERITAGE RD)	RELOCATE EXISTING Ø1 SIGNAL HEAD TO END OF MAST ARM ON EXISTING TENON PER PLAN. REMOVE EXISTING MAS Ø6 SIGNAL HEAD. FURNISH AND INSTALL NEW Ø6 SIGNAL HEADS WITH LOUVRES ON EXISTING TENONS.	

NOTE: ALL NEW POLE EQUIPMENT UNLESS NOTED AS EXISTING IN PARENTHESES. EQUIPMENT NOTED WITH AN ASTERISK (*) SHALL BE RELOCATED AS NOTED.

DETECTOR ASSIGNMENT

DETECTOR	PHASE	SLOT	TERMINAL
1	Ø2	I4U	T4-182
2	Ø2	I4L	T4-384
3	Ø5	J1U	T3-182
4	Ø5	J1L	T3-384
5	Ø2	I2U	T2-586
6	Ø2	I2L	T2-788
7	Ø2	I3U	T2-9810
8	Ø2	I9U	T8-9810
9	Ø2	I3L	T2-11812
10	Ø4	I8U	T6-586
11	Ø4	I8L	T6-788
12	Ø7	J5U	T5-586
13	Ø7	J5L	T5-788
14	Ø4	I6U	T4-9810
15	Ø4	I6L	T4-11812
16	Ø4	I7U	T6-182
17	Ø4	I9L	T6-11812
18	Ø4	I7L	T6-384
19	Ø6	J4U	T5-182
20	Ø6	J4L	T5-384
21	Ø1	I1U	T2-182
22	Ø1	I1L	T2-384
23	Ø6	J2U	T3-586
24	Ø6	J2L	T3-788
25	Ø6	J3U	T3-9810
26	Ø6	J9U	T7-9810
27	Ø6	J3L	T3-11812
28	Ø8	J6U	VIDEO
29	Ø8	J6L	VIDEO
30	Ø3	I5U	VIDEO
31	Ø3	I5L	VIDEO
32	Ø8	J7U	VIDEO
33	Ø8	J7L	VIDEO
34	Ø8	J8U	VIDEO
35	Ø8	J8L	VIDEO
36	Ø8	J9L	VIDEO
EVA	Ø2+5	J12U	T9-4
EVB	Ø4+7	J13U	T9-7
EVC	Ø1+6	J12L	T9-5
EVD	Ø3+8	J13L	T9-8
PPB	Ø2	I12U	T8-4
PPB	Ø4	I12L	T8-5
PPB	Ø6	I13U	T8-7
PPB	Ø8	I13L	T8-8

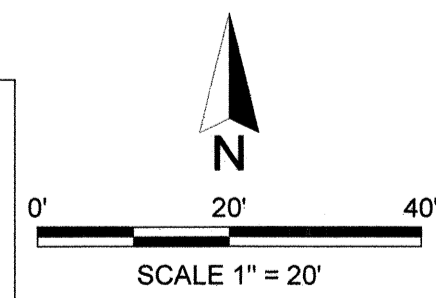
CONDUIT AND CONDUCTOR TABLE

AWG SIZE OR CABLE TYPE	POLE OR CIRCUIT	CONDUIT SIZE AND RUN				
		(3-4")	(2-3")	(2-3")	(2-3")	(2-3")
3 COND	POLE (A)	(1)	(1)			
	POLE (B)			(1)	(1)	(1)
	POLE (C)			(1)	(1)	(1)
	POLE (D)			(1)	(1)	(1)
	POLE (E)			(1)	(1)	(1)
	POLE (F)	(1)	(1)	(1)	(1)	(1)
	POLE (G)	(1)	(1)	(1)	(1)	(1)
	POLE (H)	(1)	(1)			
12 COND	TOTAL (3 & 12 COND)	(4)	(4)	(2)	(2)	(4)
#6	SIGNAL SERVICE	(1)	(1)	(1)	(1)	(1)
#8	COMMON GROUND	(1)	(1)	(1)	(1)	(1)
#10	SAFETY LIGHTING	(2)	(2)	(2)	(2)	(2)
CAT6E	CCTV	1				
TYPE B DLC	Ø1 LOOP DET.				(2)	(2)
	Ø2 LOOP DET.	(8)	(8)			
	Ø3 LOOP DET.		(2)*	(2)*	(2)*	
	Ø4 LOOP DET.				(7)	1
	Ø5 LOOP DET.	(2)	(2)			
	Ø6 LOOP DET.			(8)	(8)	
	Ø7 LOOP DET.				(2)	
	Ø8 LOOP DET.			(8)*	(8)*	(8)*
EVPE	EV DETECTION	(2)	(1)	(1)	(2)	(2)
VIDEO CABLE	VIDEO DETECTION				(1)	(1)
TOTAL CONDUCTORS / CABLES		24	18	18	34	44
PERCENT CONDUIT FILL		9%	15%	15%	31%	36%

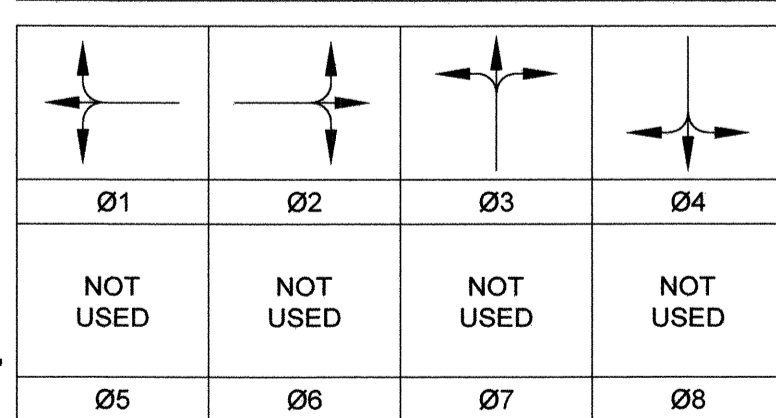
NOTE: ALL NEW WIRING AND CONDUIT UNLESS NOTED AS EXISTING IN PARENTHESES. CONNECT ALL EXISTING 3-CSC'S TO NEW PPB'S. CONNECT EXISTING DLC FOR PROPOSED CONFIGURATION.
*EXISTING DLC FOR FUTURE CONNECTION.

METER ADDRESS

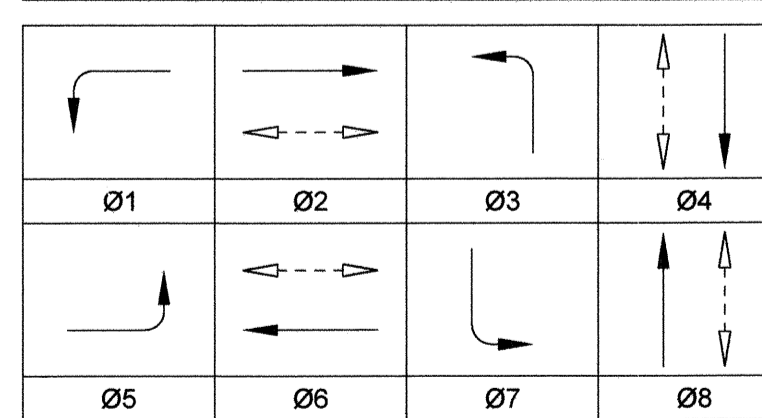
895 MAIN STREET



EXISTING PHASE DIAGRAM



PROPOSED PHASE DIAGRAM

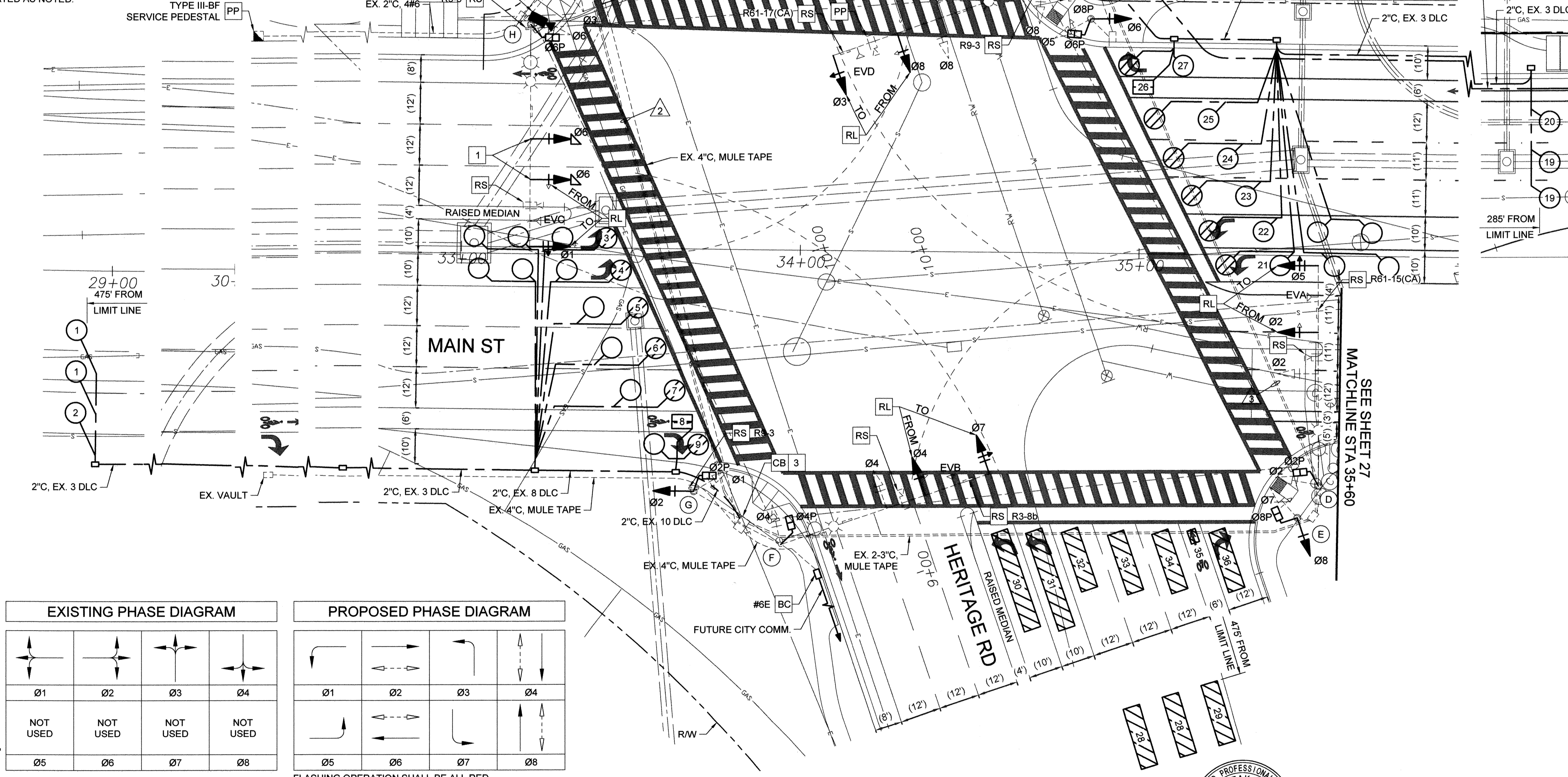
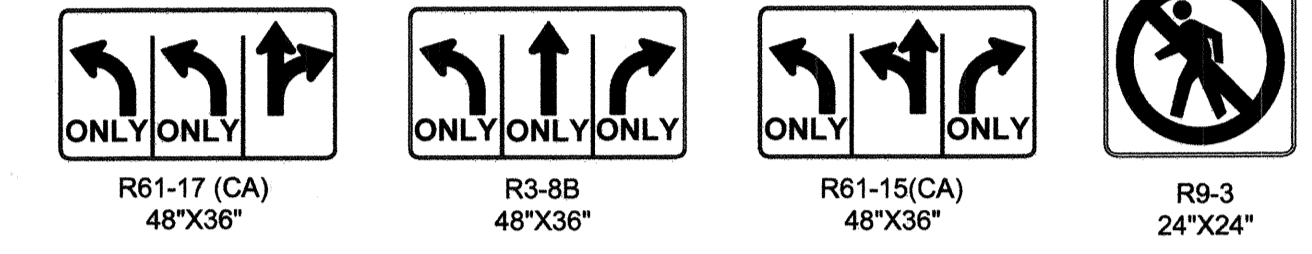


FLASHING OPERATION SHALL BE ALL RED.

TRAFFIC SIGNAL CONSTRUCTION NOTES

- AB ABANDON AS NOTED. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
- BC FURNISH AND INSTALL PULL BOX IN EXISTING CONDUIT RUN.
- CB FURNISH AND INSTALL CONDUIT INTO EXISTING PULL BOX.
- PP PROTECT IN PLACE PER PLAN.
- RC EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.
- RS REMOVE AND SALVAGE EQUIPMENT.
- 1 FURNISH AND INSTALL SIGNAL LOUVRES.
- 2 FURNISH AND INSTALL BOSCH MIC IP STARLIGHT 7000HD, OR APPROVED EQUAL, CCTV CAMERA ON POLE SHAFT PER CALTRANS STANDARD PLAN ES-7R.
- 3 PULL EXISTING DETECTOR LOOP CABLES TO NEW CONDUIT RUN FOR PROPOSED CONFIGURATION.
- 4 PULL EXISTING DETECTOR LOOP CABLES FOR PROPOSED CONFIGURATION.

SIGN LEGEND:



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
ALISA S. VIALPANDO P.E. NO.: 47945
(PRINTED NAME)
MY REGISTRATION EXPIRES: DISCIPLINE CIVIL

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	DATUM	SCALE	Designed By	Drawn By	Checked By	Submitted:	Approved:	CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT	DRAWING NO.
Contractor:	C.C.V. DWG. 16026					DESCRIPTION: BRASS DISK MARKED "SD CITY ENGR." IN 3/4" IRON PIPE, 1.5 MILES EAST OF INTERSECTION OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROMINENT 10' HIGH BOLDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT. #1359 PER R.O.S. 14841) ELEV. 628.319 (DATUM: NAVD 83 (NAVD 24))	Horizontal PER PLAN Vertical N/A	T.T.	Plans Prepared Under Supervision Of TOMO TAKAHASHI	Date 3/6/2023	R.C.E. No. 81522	04/07/23 4/21/2023	TRAFFIC SIGNAL MODIFICATION PLAN FOR: MAIN STREET / HERITAGE ROAD CHULA VISTA TRACT NO. 16-02	22001-26 W.O. No. IP220003

POLE & EQUIPMENT SCHEDULE

NO.	STANDARD				LUM. LED	PLACEMENT	MOUNTING AND PLACEMENT						RSNS W/ CITY LOGO & BLOCK NO.	NOTES	
	TYPE	HEIGHT	SIG. M.A.	LUM. M.A.			VEHICLE SIGNAL			PED SIGNAL		PUSH BUTTON			
							MOUNTING	INDICATION	PHASE	MOUNTING	PHASE	LOCATION			PHASE
(A)	29-5-100	30'	55'	15'	174W	-	6'	MAS SV-2-TB	RA, YA, GA R, Y, G R, Y, G RA, YA, GA	Ø1 Ø6 Ø6 Ø3	-	-	-	-	QUARRY DWY *
(B)	27-4-100	17'	45'	-	-	-	6'	MAS SV-1-TB	R, Y, G, GA R, Y, G	Ø3	SP-1-T	Ø3P	↓	Ø3P	MAIN ST
(C)	26-4-100	30'	45'	15'	174W	22'	5'	MAS SV-1-TB	R, Y, G R, Y, G R, Y, G R, Y, G	Ø2 Ø2 Ø2 Ø6	SP-2-T	Ø3P	↑	Ø3P	QUARRY DWY *
(D)	15TS	30'	-	15'	174W	13.5'	6'	SV-1-TB	RA, YA, GA	Ø1	SP-1-T	Ø2P	↓	Ø2P	-

NOTE: ALL NEW EQUIPMENT. ALL VEHICLE HEADS SHALL BE 12" WITH BACKPLATES.
*FINALIZED STREET NAMES HAVE NOT YET BEEN DETERMINED. CONFIRM STREET NAMES WITH CITY ENGINEER PRIOR TO FABRICATION.

DETECTOR ASSIGNMENT

DETECTOR	PHASE	SLOT	TERMINAL
1	Ø2	I4U	T4-1&2
2	Ø2	I4L	T4-3&4
3	Ø2	I2U	T2-5&6
4	Ø2	I2L	T2-7&8
5	Ø2	I3U	T2-9&10
6	Ø2	I3L	T2-11&12
7	Ø6	J4U	T5-1&2
8	Ø6	J4L	T5-3&4
9	Ø1	I1U	T2-1&2
10	Ø6	J2U	T3-5&6
11	Ø6	J2L	T3-7&8
12	Ø6	J3U	T3-9&10
13	Ø6	J3L	T3-11&12
14	Ø3	I5U	VIDEO
PPB	Ø2P	I12U	T8-4&COM6
PPB	Ø3P	I13L	T8-8&COM9
EVA	Ø2	J12U	T9-4&COM6
EVC	Ø1+Ø6	J12L	T9-5&COM6
EVD	Ø3	J13L	T9-8&COM9
FLASH	FLASH	I14U	T8-10&COM12

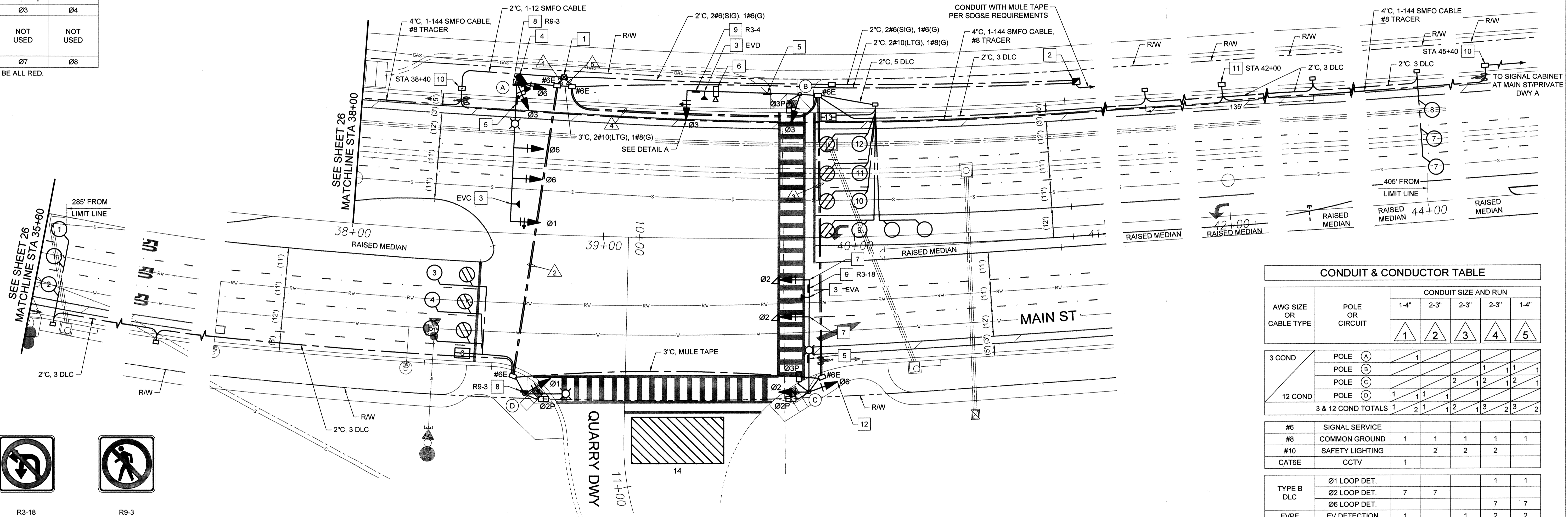
TRAFFIC SIGNAL CONSTRUCTION NOTES

- FURNISH AND INSTALL PER CITY OF CHULA VISTA SPECIFICATIONS TYPE 2070LX CONTROLLER PRELOADED WITH THE LATEST MCMAIN OMNI EX SOFTWARE IN MODEL 332L ANODIZED ALUMINUM CABINET. CONTROLLER UNIT SHALL BE EQUIPPED WITH TWELVE MODEL 200 SWITCH PACKS, FOUR MODEL 204 FLASHER UNIT MODULES, TWELVE EDI MODEL 222 LOOP DETECTOR SENSOR UNITS, FOUR MODEL 242 ISOLATORS, ONE GTT MODEL 764 PHASE SELECTOR WITH ONE SPARE, ONE 3100 GPS RADIO ANTENNA, ONE MODEL 768 AUX PANEL, ONE MODEL 2010ECLIP MONITOR UNIT WITH ONE SPARE SIGNAL MONITOR. CONTROLLER CABINET TO INCLUDE DOCUMENT DRAWER AND FRONT/BACK INTERIOR LIGHTING. FURNISH AND INSTALL FIBER DISTRIBUTION UNIT, BRANCH FIBER OPTIC CABLE AND ACTELIS NETWORKS ML684D ETHERNET ACCESS DEVICE (COMPLETE WITH POWER SUPPLY AND 2 SFPs) OR APPROVED EQUAL. CONTRACTOR TO PROVIDE FIBER AND ETHERNET DEVICE ACCEPTANCE TESTING, DOCUMENTATION, AND SYSTEM CONFIGURATION PER CITY SPECIFICATIONS.
- FURNISH AND INSTALL TYPE III-BF SIGNAL AND LIGHTING SERVICE ENCLOSURE PER SDG&E REQUIREMENTS. PROVIDE 50A-1P, 120V SIGNAL METERED CIRCUIT BREAKER, 15A-1P AND 30A-2P, 240V LIGHTING UNMETERED CIRCUIT BREAKER. SERVICE CABINET SHALL BE FABRICATED FROM ANODIZED ALUMINUM PER CALTRANS SPECIFICATIONS.
- FURNISH AND INSTALL GTT EMERGENCY VEHICLE PRE-EMPTION (E.V.P.E) EQUIPMENT DETECTORS (MODEL 721) 7' FROM END OF SIGNAL MAST ARM PER TRF-06. MOUNTING HARDWARE AND CABLE SHALL BE FURNISHED BY CONTRACTOR.
- FURNISH AND INSTALL BOSCH MIP IP STARLIGHT 7000 HD OR APPROVED EQUAL CCTV WITH POLE MOUNT, POWER SUPPLY, AND 5' OF ETHERNET PATCH CABLE.
- FURNISH AND INSTALL OVERHEAD REFLECTORIZED STREET NAME SIGN (RSNS) ON SIGNAL MAST ARM PER TRF-07.
- FURNISH AND INSTALL VIDEO DETECTION SYSTEM (ITERIS NEXT, OR APPROVED EQUAL) ON SIGNAL MAST ARM WITH 5 FT "PELCO" EXTENSION. INCLUDE ALL WIRING AND ANCILLARY EQUIPMENT. INCLUDE VIDEO DETECTION PROCESSORS, FLAT PANEL, AND RACK MOUNTED DRAWER VIDEO MONITOR IN THE CONTROLLER CABINET. INCLUDE VIDEO DETECTION PROCESSORS AND FLAT PANEL, RACK MOUNTED DRAWER VIDEO MONITOR IN THE CONTROLLER CABINET. PROVIDE ONE (1) SPARE VIDEO CAMERA, VIDEO PROCESSOR/EXTENSION MODULE, AND SURGE PROTECTOR, AND DELIVER TO CITY TRAFFIC OPERATIONS STAFF. VIDEO CAMERA SYSTEM SHALL BE EQUIPPED WITH THE ETHERNET COMMUNICATION MODULE.
- FURNISH AND INSTALL SIGNAL LOUVRES.
- FURNISH AND INSTALL SIGN ON POLE PER PLAN.
- FURNISH AND INSTALL SIGN ON MAST ARM PER PLAN.
- COIL 100 FT OF MAINLINE SMFO CABLE IN VAULT FOR SLACK.
- COIL 50 FT OF MAINLINE SMFO CABLE IN NO. 6E PULL BOX FOR SLACK.
- FURNISH AND INSTALL SIGNAL HEAD 17' FROM FINISHED GRADE.

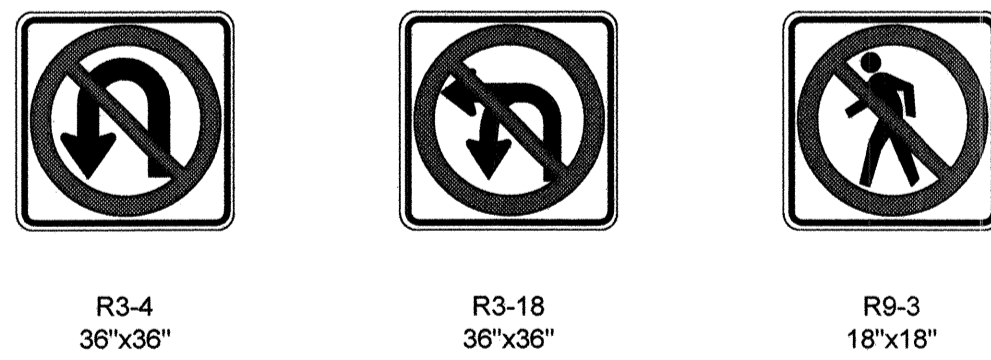
PHASE DIAGRAM

				NOT USED
Ø1	Ø2	Ø3	Ø4	
NOT USED		NOT USED	NOT USED	
Ø5	Ø6	Ø7	Ø8	

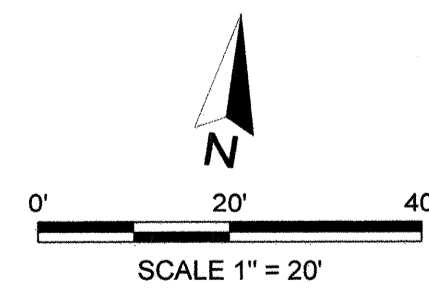
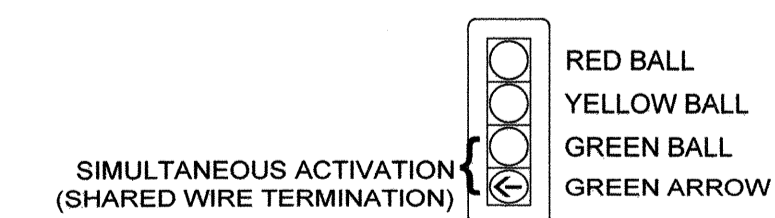
FLASHING OPERATION SHALL BE ALL RED.



SIGN LEGEND



DETAIL A



METER ADDRESS

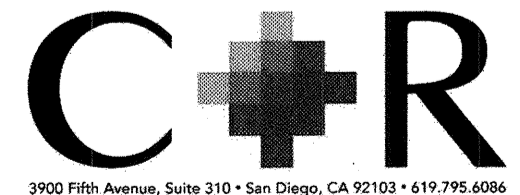
CONDUIT & CONDUCTOR TABLE

AWG SIZE OR CABLE TYPE	POLE OR CIRCUIT	CONDUIT SIZE AND RUN				
		1-4"	2-3"	2-3"	2-3"	1-4"
3 COND	POLE (A)	1				
	POLE (B)				1	1
	POLE (C)		2	1	2	1
	POLE (D)	1	1	1		
3 & 12 COND TOTALS		1	2	1	2	2
#6	SIGNAL SERVICE					
#8	COMMON GROUND	1	1	1	1	1
#10	SAFETY LIGHTING		2	2	2	
CAT6E	CCTV	1				
TYPE B DLC	Ø1 LOOP DET.				1	1
	Ø2 LOOP DET.	7	7			
EVPE	Ø6 LOOP DET.				7	7
	EV DETECTION	1		1	2	2
VIDEO CABLE	VIDEO DETECTION				1	1
TOTAL CONDUCTORS / CABLES		13	12	7	19	17
% CONDUIT FILL		15	9	7	17	18

NOTE: ALL NEW WIRING AND CONDUIT.

UTILITY NOTE		CITY "AS-BUILT"	
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	
		ALISA S. VALPANDO P.E. NO.: 47945	
		MY REGISTRATION EXPIRES: DISCIPLINE CIVIL	
CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS
Contractor:	C.C.V. DWG. 16026		
Inspector:	C.C.V. DWG. 14032		
Date Completed:	C.C.V. DWG. 21045		
	C.C.V. DWG. 20024		
DATUM		SCALE	Designed By
DESCRIPTION: BRASS DISK MARKED "SD CITY ENGR." IN 3/4" IRON PIPE, 1.5 MILES EAST OF INTERSECTION OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROMINENT HIGH BOULDER & 1000' SOUTHERLY OF WATER STORAGE FACILITY. (PT. #1359 PER R.O.S. 1484) ELEV. 628.319		Horizontal	T.T.
DATE: MWD 56 (MWD 79)		Vertical	T.T.
		N/A	Plans Prepared Under Supervision Of
			DATE 3/6/2023
			R.C.E. No. 81522

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CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT		DRAWING NO.
TRAFFIC SIGNAL PLAN FOR:		22001-27
MAIN STREET / QUARRY DRIVEWAY		W.O. No. IP220003
CHULA VISTA TRACT NO. 16-02		

MAIN STREET EAST OF HERITAGE ROAD
PUBLIC IMPROVEMENT PLAN

V.D. NO. 2395-0012

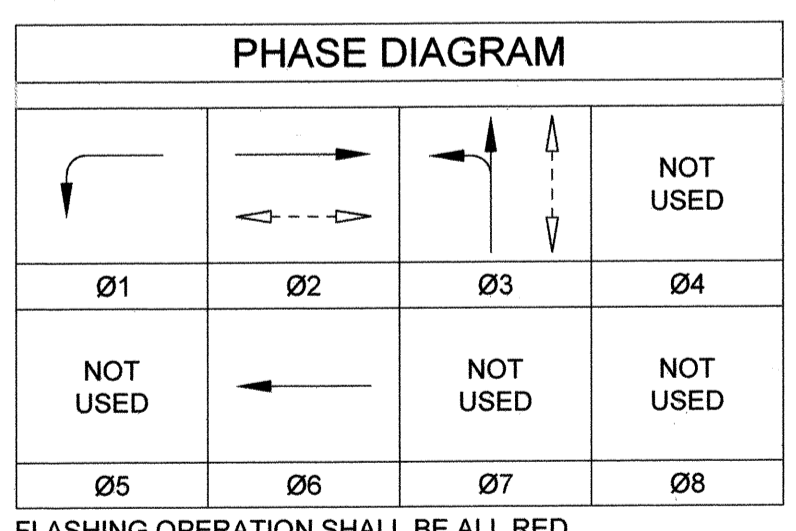
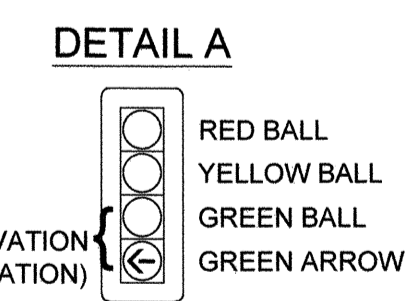
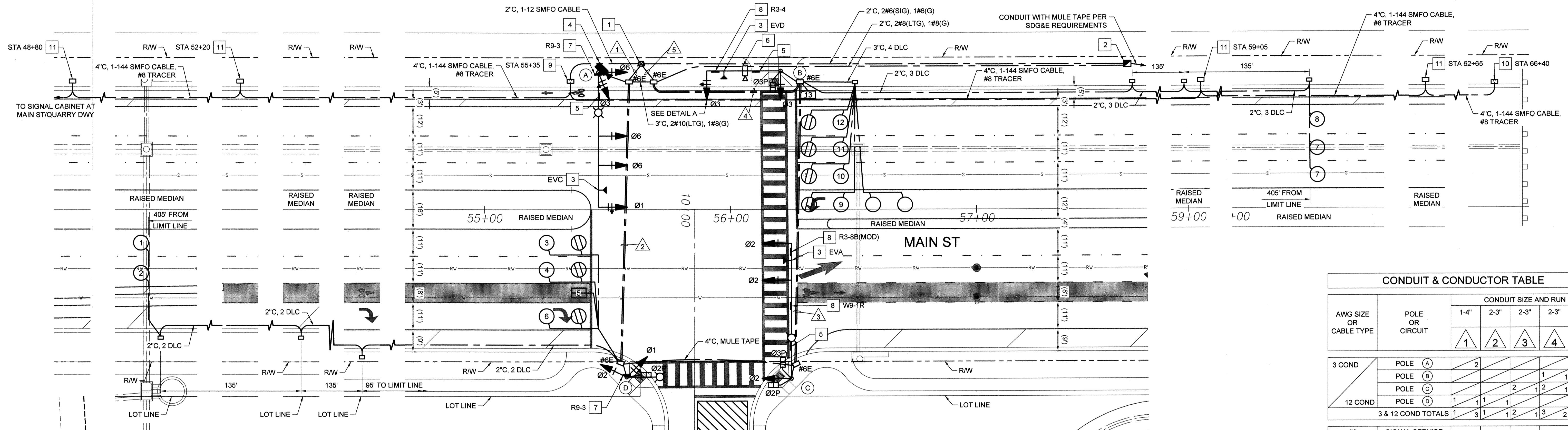
POLE & EQUIPMENT SCHEDULE															
NO.	STANDARD					LUM.		PLACEMENT		MOUNTING AND PLACEMENT				RSNS W/ CITY LOGO & BLOCK NO.	NOTES
	TYPE	HEIGHT	SIG. M.A.	LUM. M.A.	LED	A	B	VEHICLE SIGNAL		PED SIGNAL		PUSH BUTTON			
								MOUNTING	INDICATION	PHASE	MOUNTING	PHASE	LOCATION		
A	29-5-100	30'	55'	15'	174W	-	6'	MAS MAS SV-2-TB	RA,YA,GA R,Y,G R,Y,G R,Y,G RA,YA,GA	Ø1 Ø6 Ø6 Ø6 Ø3	-	-	-	-	PRIVATE DWY A*
B	18-4-100	17'	30'	15'	-	-	6.5'	MAS-4B SV-1-TB	R,Y,G,GA R,Y,G	Ø3 Ø3	SP-1-T	Ø3P	↓	Ø3P	MAIN ST
C	29-5-100	30'	55'	15'	174W	14.5'	6'	MAS MAS SV-1-TB	R,Y,G R,Y,G R,Y,G	Ø2 Ø2 Ø2	SP-2-T	Ø3P Ø2P	↑	Ø3P Ø2P	PRIVATE DWY A*
D	15TS	30'	-	-	174W	14.5'	5.5'	SV-2-TB	RA,YA,GA R,Y,G	Ø1 Ø2	SP-1-T	Ø2P	↓	Ø2P	-

NOTE: ALL NEW EQUIPMENT. ALL VEHICLE HEADS SHALL BE 12" WITH BACKPLATES.
*FINALIZED STREET NAMES HAVE NOT BEEN DETERMINED. CONFIRM STREET NAMES WITH CITY ENGINEER PRIOR TO FABRICATION.

TRAFFIC SIGNAL CONSTRUCTION NOTES

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- FURNISH AND INSTALL TYPE III-BF SIGNAL AND LIGHTING SERVICE ENCLOSURE PER SDG&E REQUIREMENTS. PROVIDE 50A-1P, 120V SIGNAL METERED CIRCUIT BREAKER, 15A-1P AND 30A-2P, 240V LIGHTING UNMETERED CIRCUIT BREAKER. SERVICE CABINET SHALL BE FABRICATED FROM ANODIZED ALUMINUM PER CALTRANS SPECIFICATIONS.
- FURNISH AND INSTALL GTT EMERGENCY VEHICLE PRE-EMPTION (E.V.P.E) EQUIPMENT DETECTORS (MODEL 721) 7' FROM END OF SIGNAL MAST ARM PER TRF-06. MOUNTING HARDWARE AND CABLE SHALL BE FURNISHED BY CONTRACTOR.
- FURNISH AND INSTALL BOSCH MIP IP STARLIGHT 7000 HD OR APPROVED EQUAL CCTV WITH POLE MOUNT, POWER SUPPLY, AND 5' OF ETHERNET PATCH CABLE.
- FURNISH AND INSTALL OVERHEAD REFLECTORIZED STREET NAME SIGN (RSNS) ON SIGNAL MAST ARM PER TRF-07.
- FURNISH AND INSTALL VIDEO DETECTION SYSTEM (ITERIS NEXT, OR APPROVED EQUAL) ON SIGNAL MAST ARM WITH 5 FT "PELCO" EXTENSION. INCLUDE ALL WIRING AND ANCILLARY EQUIPMENT. INCLUDE VIDEO DETECTION PROCESSORS, FLAT PANEL, AND RACK MOUNTED DRAWER VIDEO MONITOR IN THE CONTROLLER CABINET. INCLUDE VIDEO DETECTION PROCESSORS AND FLAT PANEL, RACK MOUNTED DRAWER VIDEO MONITOR IN THE CONTROLLER CABINET. PROVIDE ONE (1) SPARE VIDEO CAMERA, VIDEO PROCESSOR/EXTENSION MODULE, AND SURGE PROTECTOR, AND DELIVER TO CITY TRAFFIC OPERATIONS STAFF. VIDEO CAMERA SYSTEM SHALL BE EQUIPPED WITH THE ETHERNET COMMUNICATION MODULE.
- FURNISH AND INSTALL SIGN ON POLE PER PLAN.
- FURNISH AND INSTALL SIGN ON MAST ARM PER PLAN.
- COIL 100 FT OF MAINLINE SMFO CABLE IN VAULT FOR SLACK.
- COIL 6,000 FT OF MAINLINE SMFO CABLE IN SPLICE VAULT FOR SLACK. PROVIDE 4" STUB FOR FUTURE INTERCONNECT.
- COIL 50 FT OF MAINLINE SMFO CABLE IN NO. 6E PULL BOX FOR SLACK.

DETECTOR ASSIGNMENT			
DETECTOR	PHASE	SLOT	TERMINAL
1	Ø2	I4U	T4-1&2
2	Ø2	I4L	T4-3&4
3	Ø2	I2U	T2-5&6
4	Ø2	I2L	T2-7&8
5	Ø2	I3U	T2-9&10
6	Ø2	I3L	T2-11&12
7	Ø6	J4U	T5-1&2
8	Ø6	J4L	T5-3&4
9	Ø1	I1U	T2-1&2
10	Ø6	J2U	T3-5&6
11	Ø6	J2L	T3-7&8
12	Ø6	J3U	T3-9&10
13	Ø6	J3L	T3-11&12
14	Ø3	J9U	VIDEO
PPB	Ø2P	I12U	T8-4&COM6
PPB	Ø3P	I13L	T8-8&COM9
EVA	Ø2	J12U	T9-4&COM6
EVC	Ø1+Ø6	J12L	T9-5&COM6
EVD	Ø3	J13L	T9-8&COM9
FLASH	FLASH	I14U	T8-10&COM12



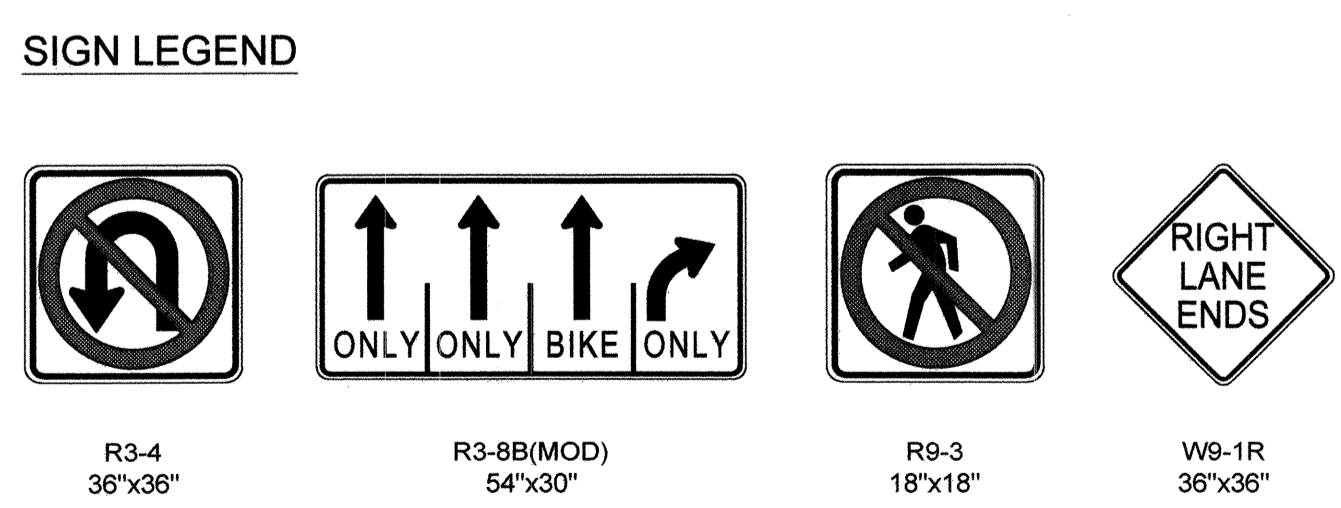
CONDUIT & CONDUCTOR TABLE						
AWG SIZE OR CABLE TYPE	POLE OR CIRCUIT	CONDUIT SIZE AND RUN				
		1-4"	2-3"	2-3"	2-3"	1-4"
3 COND	POLE (A)	2				
12 COND	POLE (B)			1	1	1
	POLE (C)		2	1	2	1
	POLE (D)	1	1	1	1	1
3 & 12 COND TOTALS		1	3	1	2	2

#	SIGNAL SERVICE	1	1	1	1	1
#8	COMMON GROUND					
#10	SAFETY LIGHTING		2	2	2	
CAT6E	CCTV	1				

TYPE B DLC	Ø1 LOOP DET.	Ø2 LOOP DET.	Ø6 LOOP DET.	1	1
EVPE	EV DETECTION	1		1	2
VIDEO CABLE	VIDEO DETECTION			2	1

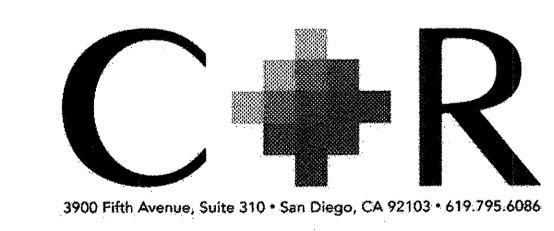
TOTAL CONDUCTORS / CABLES	13	11	7	19	17
% CONDUIT FILL	21	9	7	18	19

NOTE: ALL NEW WIRING AND CONDUIT.



UTILITY NOTE		CITY "AS-BUILT"	
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
		ALISA S. VIALPANDO	P.E. NO.: 47945
		MY REGISTRATION EXPIRES:	DISCIPLINE: CIVIL

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	DATUM	SCALE	Designed By	Drawn By	Checked By	Submitted:	Approved:	CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT	DRAWING NO.
Contractor:	C.C.V. DWG. 16026					DESCRIPTION: BRASS DISK MARKED "NO CITY ENGR" IN 3/4" IRON PIPE, 1.5 MILES EAST OF INTERSECTION OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROMINENT 10' HIGH BOULDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT. #1359 PER R.O.S. 14841) ELEV. 628.319 DATUM: NAVD_88 [NAVD_79]	Horizontal	T.T.	T.T.	T.T.	04/02/23	4/2/2023	TRAFFIC SIGNAL PLAN FOR: MAIN STREET / PRIVATE DRIVEWAY A CHULA VISTA TRACT NO. 16-02	22001-28
Inspector:	C.C.V. DWG. 14032						Vertical	Plans Prepared	Under Supervision Of					W.O. NO. IP220003
Date Completed:	C.C.V. DWG. 21045						N/A	TOMO TAKAHASHI	Date	3/6/2023		Principal Civil Engineer		
	C.C.V. DWG. 20024								R.C.E. No.	81522				



COMMUNICATION NETWORK DIAGRAM

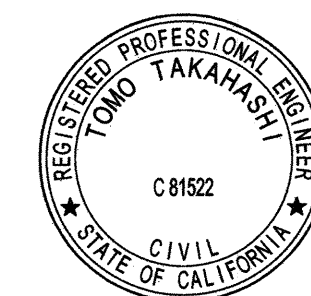


LEGEND

- EXISTING SINGLE MODE FIBER OPTIC CABLE, ## STRAND COUNT
- PROPOSED SINGLE MODE FIBER OPTIC CABLE, ## STRAND COUNT
- FUTURE SINGLE MODE FIBER OPTIC CABLE, ## STRAND COUNT
- EXISTING SPLICE ENCLOSURE
- PROPOSED SPLICE ENCLOSURE
- 2070 2070 TRAFFIC SIGNAL CONTROLLER
- FES FIELD ETHERNET SWITCH
- 2-DUAL SMALL FORM-FACTOR PLUGGABLE (SFP) MODULES
- FDU FIBER DISTRIBUTION UNIT

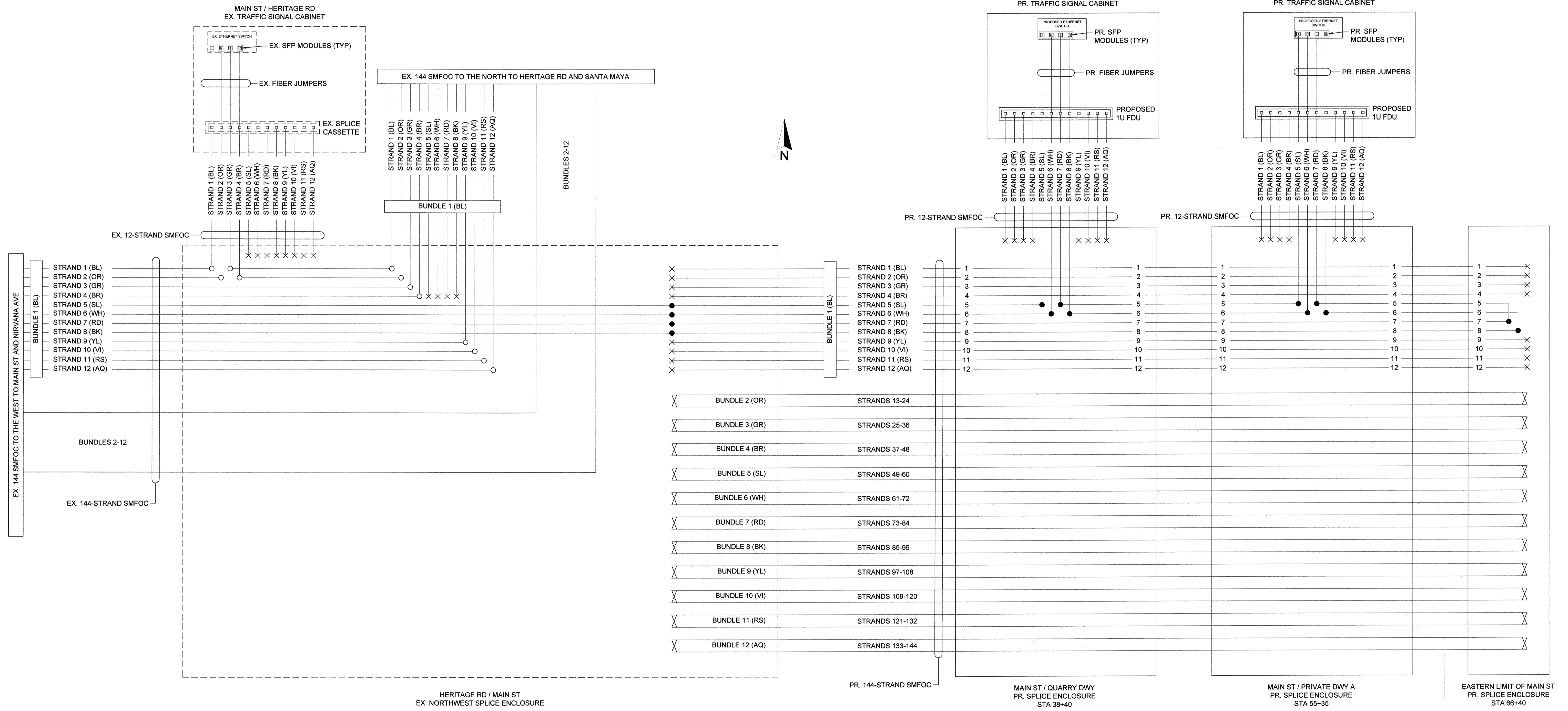
UTILITY NOTE		CITY "AS-BUILT"	
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		ALISA S. VIALPANDO	P.E. NO.: 47945
		(PRINTED NAME)	
		MY REGISTRATION EXPIRES:	DISCIPLINE: CIVIL

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	DATUM	SCALE	Designed By	Drawn By	Checked By	Submitted:	Approved:	CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT	DRAWING NO.
Contractor:	C.C.V. DWG. 16026					DESCRIPTION: BRASS DISK MARKED "SD CITY ENGR." IN 3/4" IRON PIPE, 1.5 MILES EAST OF INTERSECTION OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROMINENT 10' HIGH BOULDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT. #1359 PER R.O.S. 1484) ELEV. 628.319	Horizontal	T.T.	T.T.	T.T.	04/07/23	4/21/2023	COMMUNICATION NETWORK DIAGRAM FOR:	22001-29
Inspector:	C.C.V. DWG. 14032						N/A	Plans Prepared Under Supervision Of					MAIN STREET	
Date Completed:	C.C.V. DWG. 21045						Vertical	Date	3/6/2023			Principal Civil Engineer	CHULA VISTA TRACT NO. 16-02	
	C.C.V. DWG. 20024					DATUM: NAVD '88 (NAVD '28)	N/A	TOMO TAKAHASHI	R.C.E. No.	81522	Traffic:			W.O. No. IP220003



LEGEND

FDU	FIBER DISTRIBUTION UNIT	FIBER BUNDLE 1 - BLUE (BL)	FIBER BUNDLE 7 - RED (RD)	FIBER BUNDLE 13 - BLUE (BL) W/ BLACK (BK) STRIPE	FIBER BUNDLE 19 - RED (RD) W/ BLACK (BK) STRIPE	FIBER STRAND 1 - BLUE (BL)	FIBER STRAND 7 - RED (RD)
SFP	SMALL FORM-FACTOR PLUGGABLE	FIBER BUNDLE 2 - ORANGE (OR)	FIBER BUNDLE 8 - BLACK (BK)	FIBER BUNDLE 14 - ORANGE (OR) W/ BLACK (BK) STRIPE	FIBER BUNDLE 20 - BLACK (BK) W/ WHITE (WH) STRIPE	FIBER STRAND 2 - ORANGE (OR)	FIBER STRAND 8 - BLACK (BK)
---	PROPOSED SIGNAL CABINET OR SPLICE ENCLOSURE	FIBER BUNDLE 3 - GREEN (GR)	FIBER BUNDLE 9 - YELLOW (YL)	FIBER BUNDLE 15 - GREEN (GR) W/ BLACK (BK) STRIPE	FIBER BUNDLE 21 - YELLOW (YL) W/ BLACK (BK) STRIPE	FIBER STRAND 3 - GREEN (GR)	FIBER STRAND 9 - YELLOW (YL)
- - - -	EXISTING SIGNAL CABINET OR SPLICE ENCLOSURE	FIBER BUNDLE 4 - BROWN (BR)	FIBER BUNDLE 10 - VIOLET (VI)	FIBER BUNDLE 16 - BROWN (BR) W/ BLACK (BK) STRIPE	FIBER BUNDLE 22 - VIOLET (VI) W/ BLACK (BK) STRIPE	FIBER STRAND 4 - BROWN (BR)	FIBER STRAND 10 - VIOLET (VI)
○	EXISTING SPLICE	FIBER BUNDLE 5 - SLATE (SL)	FIBER BUNDLE 11 - ROSE (RS)	FIBER BUNDLE 17 - SLATE (SL) W/ BLACK (BK) STRIPE	FIBER BUNDLE 23 - ROSE (RS) W/ BLACK (BK) STRIPE	FIBER STRAND 5 - SLATE (SL)	FIBER STRAND 11 - ROSE (RS)
●	PROPOSED SPLICE	FIBER BUNDLE 6 - WHITE (WH)	FIBER BUNDLE 12 - AQUA (AQ)	FIBER BUNDLE 18 - WHITE (WH) W/ BLACK (BK) STRIPE	FIBER BUNDLE 24 - AQUA (AQ) W/ BLACK (BK) STRIPE	FIBER STRAND 6 - WHITE (WH)	FIBER STRAND 12 - AQUA (AQ)
×	TERMINATED FIBER END						



UTILITY NOTE		CITY "AS-BUILT"	
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) ALISA S. VIALPANDO	DATE P.E. NO.: 47945
CONSTRUCTION RECORD		BY	DISCIPLINE CIVIL
Contractor:	C.C.V. DWG. 16026		
Inspector:	C.C.V. DWG. 14032		
Date Completed:	C.C.V. DWG. 21045		
	C.C.V. DWG. 20024		

HERITAGE RD / MAIN ST
EX. NORTHWEST SPLICE ENCLOSURE

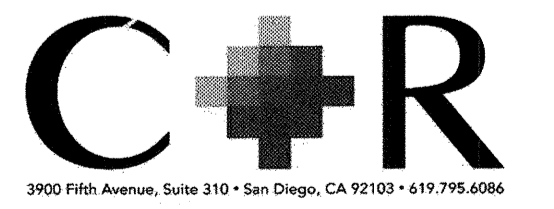
PR. 144-STRAND SMFOC
MAIN ST / QUARRY DWY
PR. SPLICE ENCLOSURE
STA 38+40

MAIN ST / PRIVATE DWY A
PR. SPLICE ENCLOSURE
STA 55+35

EASTERN LIMIT OF MAIN ST
PR. SPLICE ENCLOSURE
STA 66+40

DESCRIPTION: BRASS DISK MARKED "SD CITY ENGR" IN 3/4" IRON PIPE, 1.5 MILES EAST OF INTERSECTION OF MAIN ST & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROMINENT 10' HIGH BOLLARD & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT. #1359 PER R.O.S. 1484.) ELEV. 628.219 DATUM: NAVD '88 (NAVD '78)	SCALE Horizontal N/A Vertical N/A	Designed By T.T. Plans Prepared Under Supervision Of TOMO TAKAHASHI	Drawn By T.T.	Checked By T.T.	Submitted: 04/09/23 By: [Signature] Traffic: [Signature]	Approved: 4/21/2023 By: [Signature] Principal Civil Engineer
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CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT		DRAWING NO.
FIBER SPLICE DIAGRAM FOR: MAIN STREET CHULA VISTA TRACT NO. 16-02		22001-30
		W.O. No. IP220003



LEGEND

- ES ETHERNET SWITCH
- FDU FIBER DISTRIBUTION UNIT
- FPP FIBER PATCH PANEL
- LC LUCENT CONNECTOR
- SFP SMALL FORM-FACTOR PLUGGABLE

- FIBER BUNDLE 1 - BLUE (BL)
- FIBER BUNDLE 2 - ORANGE (OR)
- FIBER BUNDLE 3 - GREEN (GR)
- FIBER BUNDLE 4 - BROWN (BR)
- FIBER BUNDLE 5 - SLATE (SL)
- FIBER BUNDLE 6 - WHITE (WH)

- FIBER BUNDLE 7 - RED (RD)
- FIBER BUNDLE 8 - BLACK (BK)
- FIBER BUNDLE 9 - YELLOW (YL)
- FIBER BUNDLE 10 - VIOLET (VI)
- FIBER BUNDLE 11 - ROSE (RS)
- FIBER BUNDLE 12 - AQUA (AQ)

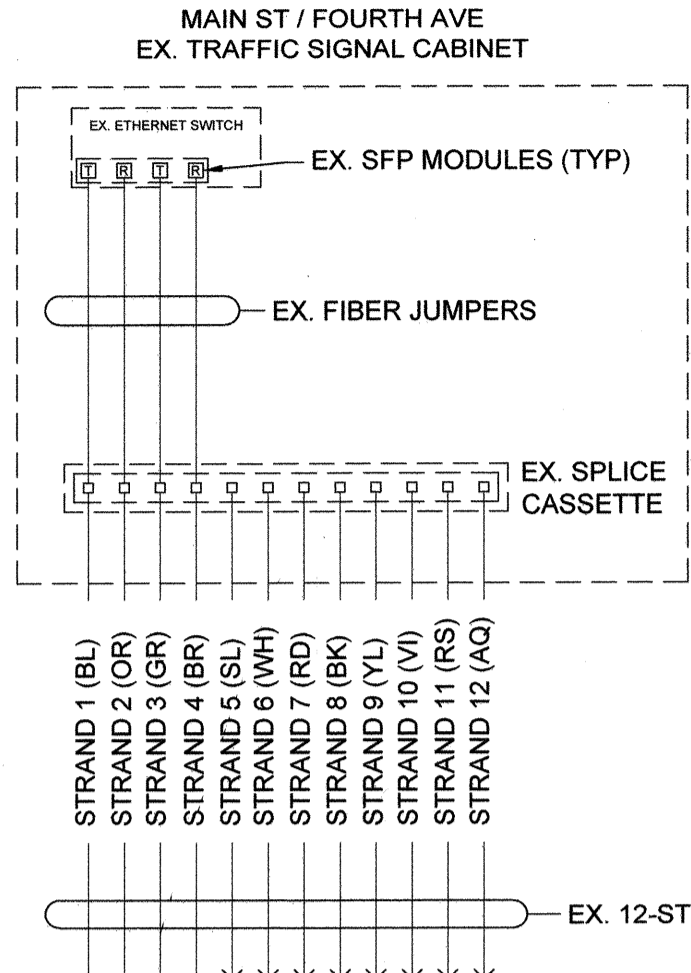
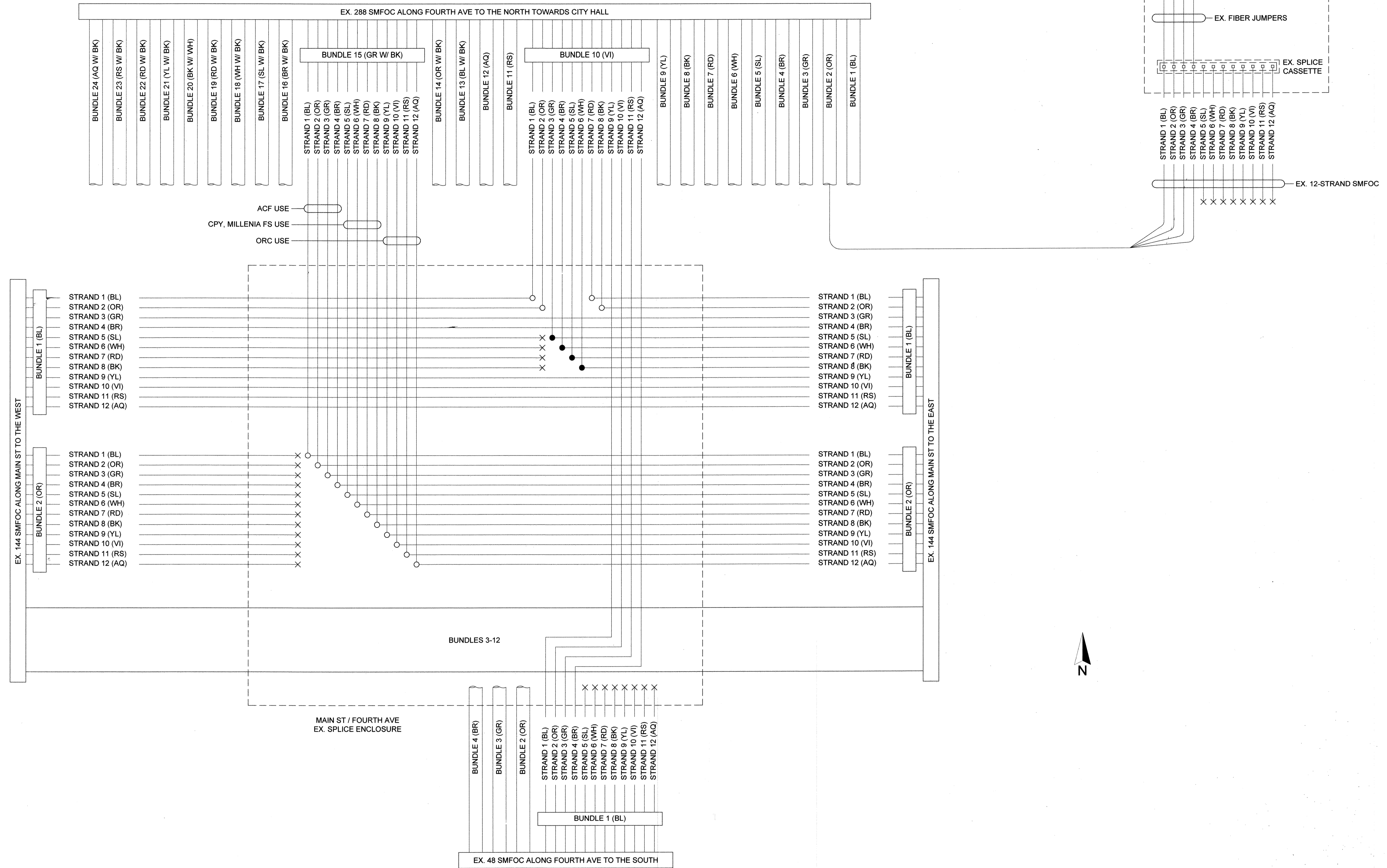
- FIBER BUNDLE 13 - BLUE (BL) W/ BLACK (BK) STRIPE
- FIBER BUNDLE 14 - ORANGE (OR) W/ BLACK (BK) STRIPE
- FIBER BUNDLE 15 - GREEN (GR) W/ BLACK (BK) STRIPE
- FIBER BUNDLE 16 - BROWN (BR) W/ BLACK (BK) STRIPE
- FIBER BUNDLE 17 - SLATE (SL) W/ BLACK (BK) STRIPE
- FIBER BUNDLE 18 - WHITE (WH) W/ BLACK (BK) STRIPE

- FIBER BUNDLE 19 - RED (RD) W/ BLACK (BK) STRIPE
- FIBER BUNDLE 20 - BLACK (BK) W/ WHITE (WH) STRIPE
- FIBER BUNDLE 21 - YELLOW (YL) W/ BLACK (BK) STRIPE
- FIBER BUNDLE 22 - VIOLET (VI) W/ BLACK (BK) STRIPE
- FIBER BUNDLE 23 - ROSE (RS) W/ BLACK (BK) STRIPE
- FIBER BUNDLE 24 - AQUA (AQ) W/ BLACK (BK) STRIPE

- FIBER STRAND 1 - BLUE (BL)
- FIBER STRAND 2 - ORANGE (OR)
- FIBER STRAND 3 - GREEN (GR)
- FIBER STRAND 4 - BROWN (BR)
- FIBER STRAND 5 - SLATE (SL)
- FIBER STRAND 6 - WHITE (WH)

- FIBER STRAND 7 - RED (RD)
- FIBER STRAND 8 - BLACK (BK)
- FIBER STRAND 9 - YELLOW (YL)
- FIBER STRAND 10 - VIOLET (VI)
- FIBER STRAND 11 - ROSE (RS)
- FIBER STRAND 12 - AQUA (AQ)

- PROPOSED
- - - - - EXISTING
- EXISTING SPLICE
- PROPOSED SPLICE
- × TERMINATED FIBER END



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
ALISA S. VIALPANDO	P.E. NO.: 47945
(PRINTED NAME)	
MY REGISTRATION EXPIRES:	DISCIPLINE CIVIL

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	DATUM
Contractor:	C.C.V. DWG. 16026					DESCRIPTION: BRASS DISK MARKED "30 CITY ENGR" IN 3/4" IRON PIPE, 1.5 MILES EAST OF INTERSECTION OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROMINENT 10' HIGH BOLLIDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT. #1359 PER R.O.S. 14841) ELEV. 629.319 DATUM: NAVD_88 (NAVD_29)
Inspector:	C.C.V. DWG. 14032					
Date Completed:	C.C.V. DWG. 21045					
	C.C.V. DWG. 20024					

SCALE	Designed By	Drawn By	Checked By	Submitted:	Approved:
Horizontal N/A	T.T.	T.T.	T.T.	04/07/23	4/21/2023
Vertical N/A	Plans Prepared Under Supervision Of	Date	R.C.E. No.		
	TOMO TAKAHASHI	3/6/2023	81522		

CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT		DRAWING NO.
FIBER SPLICE DIAGRAM FOR:		22001-31
HERITAGE ROAD CHULA VISTA TRACT NO. 16-02		W.O. No. IP220003

