

July 18, 2023

HONORABLE MAYOR AND CITY COUNCIL  
City of Long Beach  
California

**RECOMMENDATION:**

Authorize City Manager, or designee, to accept an easement deed from SA Properties Company, L.P., a California Limited Partnership, and the owner of the property at 530 East 33rd Street, for the installation of public utilities; and,

Accept Categorical Exemption Number 20-127. (District 5)

**DISCUSSION**

SA Properties Company, L.P., owner of the property located at 530 E 33<sup>rd</sup> Street, is installing a new fire line pursuant to approved Long Beach Utilities Department construction drawings (Attachment A). A fire line service Double Check Detector Assembly will be installed on the property. These devices provide backflow prevention to protect water supplies from contamination. To accommodate the installation of the Double Check Detector Assembly, it is necessary that the property owner grant an easement to the City of Long Beach (City) for the installation at the property (Attachment B). The Public Works Department is asking the City Council to authorize acceptance of an easement deed to accomplish this purpose.

City staff conducted a review of affected agencies and there were no objections to the proposed easement.

In accordance with the California Environmental Quality Act (CEQA) and the CEQA Guidelines, Categorical Exemption No. CE-20-127 was issued for the project (Attachment C).

This matter was reviewed by Deputy City Attorney Vanessa S. Ibarra on June 26, 2023, and by Budget Management Officer Nader Kaamouh on March 15, 2023.

**TIMING CONSIDERATIONS**

City Council action on this matter is not time critical.

**FISCAL IMPACT**

An easement processing fee in the amount of \$3,213 was deposited in the General Fund Group in the Public Works Department. This recommendation has no staffing

HONORABLE MAYOR AND CITY COUNCIL

July 18, 2023

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impact beyond the normal budgeted scope of duties and is consistent with existing City Council priorities. There is no local job impact associated with this recommendation.

**SUGGESTED ACTION:**

Approve recommendation.

Respectfully submitted,



ERIC LOPEZ  
DIRECTOR OF PUBLIC WORKS

APPROVED:



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THOMAS B. MODICA  
CITY MANAGER

ATTACHMENTS: A – APPROVED LONG BEACH UTILITIES DEPARTMENT DRAWINGS  
B – EASEMENT SKETCH & LEGAL DESCRIPTION  
C – CATEGORICAL EXEMPTION NO. CE-20-127



# Attachment A

## GENERAL CONSTRUCTION NOTES

- ALL WORK AND MATERIALS SHALL BE APPROVED BY LBWD AND BE IN ACCORDANCE WITH THE AMENDMENTS TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION LATEST EDITION (GREEN BOOK), THE CURRENT LBWD STANDARD DRAWINGS AND THE LATEST LBWD STANDARDS AND SPECIFICATIONS FOR THE CONSTRUCTION OF WATER AND SEWER FACILITIES. THE CONTRACTOR IS REQUIRED TO HAVE THESE SPECIFICATIONS ON THE JOB SITE AT ALL TIMES.
- THE CONTRACTOR SHALL ARRANGE FOR A PRE-CONSTRUCTION MEETING WITH LBWD PROJECT ENGINEER AT (562-570-2419) A MINIMUM OF SEVEN (7) BUSINESS DAYS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL APPLY FOR INSPECTION FROM THE LBWD AT (562-244-9334) AT LEAST 48 HOURS PRIOR TO STARTING WORK ON ANY PROJECT.
- THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT AT (811) A MINIMUM OF TWO DAYS PRIOR TO EXCAVATION.
- THE CONTRACTOR SHALL NOTIFY ALL UTILITIES IMPACTED BY THIS PROJECT AND REQUEST THEIR ATTENDANCE TO THE PRE-CONSTRUCTION MEETING.
- THE CONTRACTOR SHALL VERIFY THE LOCATION, DEPTH, VERTICAL AND HORIZONTAL ALIGNMENT AND PROTECT IN PLACE ALL EXISTING WATER MAINS AND UNDERGROUND STRUCTURES.
- ALL PIPELINE STATIONS AND OFFSETS ARE REFERENCED TO CENTERLINE OF STREET EXCEPT AS NOTED.
- GRADE POINT ELEVATIONS ARE TO BOTTOM OF PIPE EXCEPT WHERE OTHERWISE NOTED.
- VALVE NUMBERS ARE FOR LBWD RECORD ONLY.
- WATER MAIN INSTALLATION SHALL NOT BE PERFORMED UNTIL THE NEW STREETS HAVE BEEN BROUGHT TO SUB GRADE ELEVATIONS AND COMPACTED TO 90% RELATIVE DENSITY.
- THE CONTRACTOR SHALL REMOVE AND RESTORE EXISTING ROADWAY PAVEMENT, SIDEWALK, CURB AND OTHER SURFACE IMPROVEMENTS OVER THE PIPE TRENCH AND PLACE TEMPORARY RESURFACING IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STANDARD SPECIFICATIONS AS SUPPLEMENTED BY LBWD STANDARD DRAWINGS NO. WDS-406 TRENCH RESTORATION LONG BEACH WATER DEPARTMENT RESERVES THE RIGHT TO REQUIRE SLURRY BACKFILL AT ITS DISCRETION.
- SEPARATION BETWEEN WATER MAINS AND SANITARY SEWERS SHALL COMPLY WITH THE "CRITERIA FOR THE SEPARATION OF WATER MAINS AND SANITARY SEWERS," PREPARED BY THE DEPARTMENT OF HEALTH, STATE OF CALIFORNIA AND LBWD STANDARD DRAWINGS WDS-405.
- FOR WATER SERVICE DURING CONSTRUCTION CONTRACTOR SHALL CONTACT LBWD AT (562-570-2419) REGARDING SERVICE APPLICATION AND WATER COSTS.
- THE CONTRACTOR IS REQUIRED TO SUBMIT TRENCH GRADE SHEETS SHOWING ELEVATIONS TO BOTTOM OF PIPE PRIOR TO WATER LINE CONSTRUCTION.
- BACTERIAL COLIFORM TESTS WILL BE PERFORMED BY AN APPROVED LAB OR THE LBWD. ALL FEES AS PUBLISHED IN THE RULES AND REGULATIONS ADOPTED JULY 2011 ASSOCIATED WITH THE BACTERIAL TESTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL CONTACT LBWD PROJECT ENGINEER TO MAKE ARRANGEMENTS FOR ALL REQUIRED BACTERIAL COLIFORM TESTS. THE CONTRACTOR SHALL MAKE PROVISIONS FOR TEMPORARY FILLING CONNECTIONS, DISINFECTION, PRESSURE TESTING, FLUSHING AND DRAINING. THESE PROVISIONS MUST BE PRESENTED TO THE LBWD FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION. HYDROSTATIC TESTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. ALL TESTS SHALL BE COMPLETED AND ACCEPTED PRIOR TO TIE-INS TO EXISTING WATER LINES. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND MATERIAL LISTS FOR APPROVAL TO LBWD AND SHALL HAVE ALL VALVES, PIPING AND APPURTENANCES ON JOB SITE BEFORE BEGINNING CONSTRUCTION.
- PLANS SHALL COMPLY WITH LONG BEACH FIRE DEPARTMENT (LBFD) REQUIREMENTS. LBFD STAMPED PLAN APPROVAL MUST BE OBTAINED PRIOR TO PLAN APPROVAL BY LBWD.
- CONSTRUCTION HOURS ARE LIMITED FROM 7:00 A.M. TO 3:30 P.M. MONDAY THROUGH FRIDAY EXCEPT LBWD HOLIDAYS OR AS REQUIRED BY THE PERMIT. ARRANGEMENTS FOR INSPECTION AT OTHER TIMES REQUIRE PRIOR APPROVAL FROM LBWD.
- LBWD'S RESPONSIBILITY ENDS AT THE METER (OR DCDA FOR FIRELINE SERVICES), OR AS SHOWN ON THE DESIGN DRAWING. ALL OTHER LINES EXTENDING FROM THIS POINT FALL UNDER THE DEVELOPER OR HOMEOWNER'S RESPONSIBILITY.

### MATERIALS:

- ALL MATERIALS MUST CONFORM TO THE LATEST LBWD SPECIFICATIONS FOR THE CONSTRUCTION OF WATER AND SEWER FACILITIES FOR DEVELOPER BUILT PROJECTS UNLESS OTHERWISE SPECIFIED AND APPROVED BY LBWD. IN LIEU OF REFERENCE TO LBWD SPECIFICATIONS, ALL STEEL HARDWARE SHALL BE TYPE 304 STAINLESS. NO CARBON STEEL SHALL BE USED.
- PIPE SHALL BE DUCTILE IRON PRESSURE CLASS 52 AND CONFORM TO ANSI/AWWA C150, C151 AND C104. PIPE SHALL HAVE THE FOLLOWING COATING: (A) ZINC: 200 G/M2 GALVANIC (ZINC) COATING, 99.99% PURE METALLIC ZINC, APPLIED BY THERMAL ARC SPRAY PROCESS TO EXTERIOR METAL SURFACE; AND (B) 1 PRIME COAT OF ASPHALTIC COATING APPROXIMATELY 1-MIL DFT PER AWWA C151, OVER ZINC COATING. TYTON-TYPE JOINTS AND PUSH-ON FITTINGS SHALL BE USED UNLESS OTHERWISE NOTED.
- ALL DUCTILE IRON FITTINGS, GATE VALVES, BOLTED COUPLINGS, AND ALL METAL SURFACES OF THE RODS AND CLAMPS SHALL BE COATED WITH NO-OX-ID COMPOUND AND WRAPPED WITH NO-OX-ID TAPE AND SHALL BE ENCASED IN 6 INCHES OF WASHED SAND.
- THRUST BLOCKS AND RESTRAINT JOINT SYSTEMS SHALL BE INSTALLED AT ALL VERTICAL AND HORIZONTAL BENDS AS NOTED ON THE PLANS. (THRUST BLOCKS USE 2000 LBS. SOIL BEARING VALUE PER WDS-107.) THRUST BLOCKS FOR TAPPING TEES INSTALLED ON AC PIPE SHALL BE POURED 24 HOURS PRIOR TO TAPPING THE MAIN.
- ALL JOINT SHALL BE THRUST-RESTRAINED. DUCTILE IRON PIPE DIAMETERS 12" AND LESS SHALL USE "FIELD LOK" RESTRAINTS OR APPROVED EQUAL. DUCTILE IRON PIPE DIAMETERS LARGER THAN 12-INCH SHALL USE TR-FLEX RESTRAINTS OR APPROVED EQUAL.
- SERVICE SADDLES AND CORPORATION STOPS SHALL BE COATED WITH NO-OX-ID COMPOUND AND WRAPPED WITH NO-OX-ID TAPE. DUCTILE IRON PIPE SHALL BE ENCASED WITH 8-MIL POLYETHYLENE WRAP AND SECURED WITH 10-MIL TAPE.

### METERS:

- THE LBWD IS RESPONSIBLE FOR THE INSTALLATION OF THE WATER METER ONLY. UPON RECEIPT OF THE APPLICATION AND PAYMENT OF THE PUBLISHED FEES, THE LBWD WILL FURNISH THE METER BOX FOR INSTALLATION BY THE CONTRACTOR. THE LBWD INSPECTOR WILL CHECK THE INSTALLATION, METER BOX PLACEMENT AND ALL APPURTENANCES INSTALLED BY THE CONTRACTOR BEFORE METER INSTALLATION. DETECTOR CHECK (DC) IS OBSOLETE. A USC-APPROVED DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) WILL BE REQUIRED FOR FIRE SERVICE CONNECTIONS. AN ABOVE-GROUND INSTALLATION IS REQUIRED FOR THESE UNITS.
- ANY WATER SERVICE BEING USED FOR IRRIGATION WILL REQUIRE A LBWD APPROVED BACK FLOW DEVICE INSTALLED ABOVE GRADE BY THE DEVELOPER/CONTRACTOR.
- DOMESTIC WATER SERVICE REQUIRING A BACKFLOW DEVICE MUST GET LBWD APPROVAL PRIOR TO INSTALLATION. CONTACT LBWD DEVELOPMENT SERVICES AT (562) 570-2419.
- ALL WATER METER SIZES 4" AND ABOVE WILL BE INSTALLED ABOVE GRADE AND THE DIMENSIONS REQUIRED FOR METER INSTALLATION CANNOT BE MODIFIED.
- THE CONTRACTOR SHALL FURNISH AND INSTALL STANDARD HOUSE CONNECTIONS.
- THE LOCATION OF THE WATER SERVICE IS TO BE PERMANENTLY MARKED ON THE TOP OF THE CURB WITH A "W". THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND CONDITION OF ALL WATER SERVICES UNTIL SUCH TIME AS LBWD HAS INSTALLED THE INDIVIDUAL METERS.
- HOUSE WATER SERVICE LOCATIONS SHALL BE VERIFIED IN THE FIELD TO AVOID CONFLICTS WITH DRIVEWAYS, HOUSE WALKS, FIRE HYDRANTS, ETC.
- NO WATER SERVICE SHALL BE CLOSER THAN TWO (2) FEET TO A COUPLING.
- THE MINIMUM SEPARATION BETWEEN WATER SERVICES SHALL BE THREE (3) FEET.
- WATER METER BOXES SHALL BE LOCATED PERPENDICULAR TO AND BEHIND THE CURB.

### SHUTDOWNS:

- ONLY THE LBWD AND THEIR APPROVED REPRESENTATIVES SHALL OPERATE VALVES. WHEN IT IS NECESSARY TO SHUT DOWN AN EXISTING WATER SYSTEM FOR THE PURPOSES OF CONNECTING TO AND/OR THE TESTING OF THE NEWLY-INSTALLED FACILITIES, THE CONTRACTOR SHALL REQUEST A SCHEDULED SHUT DOWN FROM THE LBWD THROUGH THE PROJECT INSPECTOR. THE CONTRACTOR SHALL GIVE A MINIMUM ADVANCE NOTICE OF SEVEN (7) DAYS WHEN REQUESTING LBWD VALVE OPERATIONS.
- THE CONTRACTOR SHALL NOTIFY THE LOCAL BUSINESSES AND RESIDENTS IN WRITING SEVEN (7) DAYS PRIOR TO THE DATE OF THE CONSTRUCTION WITH A NOTICE INFORMING THEM OF ALL POSSIBLE INCONVENIENCES INCURRED BY THE CONSTRUCTION. CONTRACTOR SHALL FOLLOW WITH A (24) HOUR DOOR HANGER REMINDER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISTRIBUTION OF ALL NOTICES. SAID NOTIFICATIONS SHALL INCLUDE CONTRACTOR'S NAME AND TELEPHONE NUMBER FOR CONTACT.
- THE LBWD CANNOT GUARANTEE A COMPLETE SHUTDOWN OF EXISTING WATER MAINS DUE TO THE AGE AND CONDITION OF EXISTING VALVES. THE LBWD WILL ATTEMPT TO SHUT DOWN APPLICABLE MAINS AS COMPLETELY AS POSSIBLE; HOWEVER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DEWATERING OF THE CONSTRUCTION SITE AND THE PROPER DISPOSAL OF WATER RUN OFF IN ACCORDANCE WITH THE NPDES REQUIREMENTS.
- IN CASES WHERE THE LBWD DETERMINES THAT THE PROPOSED SHUT DOWN MAY NOT BE FEASIBLE OR MAY CAUSE AN EXCESSIVE HARDSHIP TO EXISTING CUSTOMERS, THE DEVELOPER/CONTRACTOR WILL BE REQUIRED TO PROPOSE AN ALTERNATIVE PLAN FOR LBWD APPROVAL EXPLAINING THE CONSTRUCTABILITY OF THE DESIGN. CONTINGENCY PLANS INCLUSIVE OF BOTTLED WATER AND PORTABLE TOILETS PER NUMBER OF CUSTOMERS MAY BE REQUIRED.
- THE SHUTDOWN OF WATER SERVICES FOR THE PURPOSE OF CONSTRUCTION SHALL BE LIMITED TO A MAXIMUM OF FOUR (4) HOURS. FOR CONSTRUCTION THAT EXCEEDS (4) HOURS THE CONTRACTOR MUST PROVIDE TEMPORARY HIGH LINE CONNECTIONS WHERE DEEMED APPLICABLE BY THE LBWD.

## NOTES TO CONTRACTOR

- THE CONTRACTOR SHALL FIELD VERIFY THE SIZE, MATERIAL, HORIZONTAL, AND VERTICAL LOCATION OF ALL CONNECTION POINTS AND ALL UTILITY CROSSINGS PRIOR TO ANY CONSTRUCTION ACTIVITY.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT IN PLACE EXISTING UTILITIES UNLESS OTHERWISE NOTED.
- PROVIDE 1-FOOT MINIMUM VERTICAL CLEARANCE AT ALL CROSSINGS BETWEEN NEW PIPE AND EXISTING UTILITIES UNLESS OTHERWISE NOTED ON PLANS.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE DRIVEWAYS, DRIVEWAYS, AND INTERSECTING STREETS AT ALL TIMES.
- FOR PIPELINE APPURTENANCES, THE CONTRACTOR SHALL REMOVE AND REPLACE CURB AND GUTTER AND SIDEWALK TO THE NEAREST JOINT. FOR BIDDING PURPOSES ASSUME 10 LF (UNLESS SPECIFIED ON PLANS) OF CURB AND GUTTER AND SIDEWALK TO BE REMOVED AND REPLACED IN KIND.
- REMOVE AND REPLACE IN KIND STAMPED COLORED CONCRETE PER 2018 GREENBOOK STANDARD SPECIFICATION 303-6 AND 303-7 USING INTEGRAL COLOR METHOD. WHEN REPLACING THE DECORATIVE PAVEMENT, DRILL 1/2" X 12" LONG SMOOTH STEEL EPOXY COATED #4 DOWEL AT 18" OC AT THE EXPANSION JOINT (TYP) INTO THE EXISTING CONCRETE.
- ALL DUCTILE IRON AND STEEL FITTINGS AND VALVES BURIED UNDERGROUND AND IN CONTACT WITH SOIL SHALL BE COATED WITH A WAX TAPE-WRAP SYSTEM AND DOUBLE WRAPPED WITH A POLYETHYLENE ENCASEMENT.
- THE CONTRACTOR SHALL COORDINATE WITH RESIDENTS PRIOR TO CONNECTION OF EXISTING FIRES SERVICES. THE CONTRACTOR WILL NEED TO BLEED THE AIR OUT OF THE LINE AND TURN THE FIRE SERVICE OFF INSIDE THE RESIDENCE'S HOME.
- THE CONTRACTOR SHALL INSTALL THE NEW FIRE HYDRANT IN THE SAME LOCATION AS THE EXISTING FIRE HYDRANT. CONTRACTOR MAY PROPOSE A MORE OPTIMAL LOCATION AND INSTALL AFTER OBTAINING LBWD'S APPROVAL. SEPARATE PRESSURE TESTING AND BAC-T SAMPLES FOR THE FIRE HYDRANT LATERAL WILL BE REQUIRED BEFORE TIE-IN.

## ENGINEER'S GENERAL NOTES

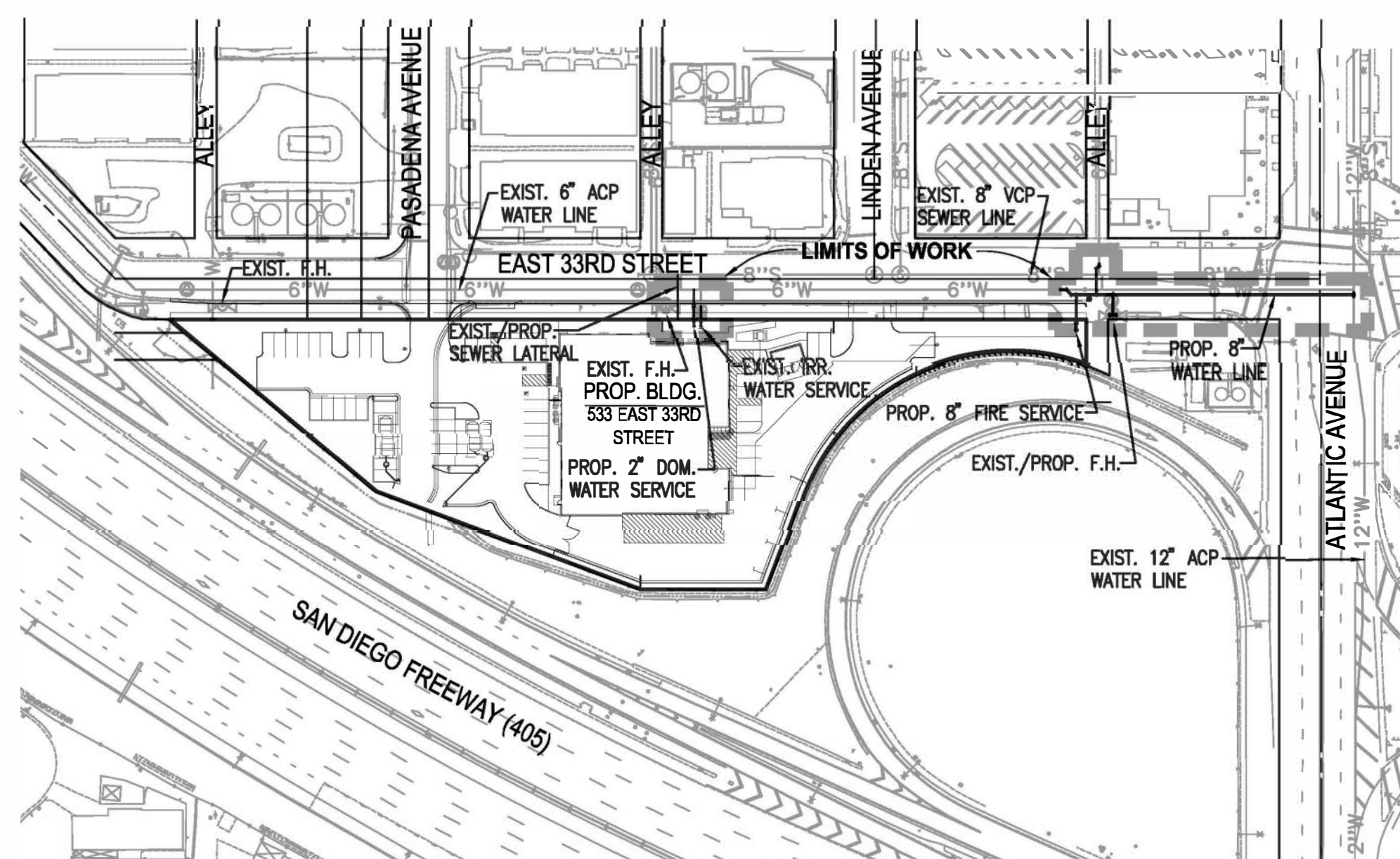
- TRI-FLEX CONNECTION JOINTS ARE REQUIRED ON ALL PIPE SIZES LARGER THAN 12" AT EACH JOINT.
- ALL D.I.P. WATER LINES TO BE HOT DIPPED WATER LINES. WATER LINES TO BE HOT TAPPED WITH BITUMINOUS COATING.
- CONTRACTOR TO FURNISH ALL WATER METER BOXES, AS INDICATED ON PLANS, FOR FUTURE WATER METER INSTALLATION BY THE CITY OF LONG BEACH WATER DEPARTMENT.
- CONTRACTOR TO "SNAKE" SERVICE LATERALS AS APPLICABLE TO AVOID CONFLICTS WITH RECLAIMED WATER, SANITARY SEWER, AND STORM DRAIN.

### NOTE

- ALL METERS MUST BE PAID FOR PRIOR TO LBWD SUPPLYING AND INSTALLING THE METERS AND ASSEMBLIES.
- THE WATER SYSTEM WILL BE USED FOR POTABLE SERVICE UNLESS A FLUSHING PROGRAM IS MAINTAINED FOR THE SYSTEM LOOP IS COMPLETE.

### NOTE

THESE PLANS HAVE BEEN REVIEWED BY THE LONG BEACH WATER DEPARTMENT FOR CONFORMANCE WITH WATER DEPARTMENT STANDARDS AND FOR COMPLIANCE WITH THE GENERAL CONCEPTUAL DESIGN OF THE WATER SYSTEM SHOWN ON THESE PLANS. NO DETAILED MATHEMATICAL CHECK WAS MADE OF THE ACCURACY OF THE EXISTING OR PROPOSED DIMENSIONS, STATIONS, LINES OR GRADES SHOWN, NOR OF EXISTING OR PROPOSED UTILITY SUBSTRUCTURES. FULL RESPONSIBILITY IS PLACED UPON THE CONSULTANT REGISTERED CIVIL ENGINEER.



LOCATION MAP  
SCALE: 1" = 100'

## LEGEND OF ABBREVIATIONS & LINE SYMBOLS

|        |  |
|--------|--|
| PROP.  | INDICATES PROPOSED                                     |
| EXIST. | INDICATES EXISTING                                     |
| L=     | INDICATES LENGTH EQUALS                                |
| S.D.   | INDICATES STORM DRAIN                                  |
| LBWD   | INDICATES LONG BEACH WATER DEPARTMENT                  |
| CLB    | INDICATES CITY OF LONG BEACH                           |
| PCC    | INDICATES PORTLAND CEMENT CONCRETE                     |
| CIP    | INDICATES CAST IRON PIPE                               |
| ACP    | INDICATES ASBESTOS CONCRETE PIPE                       |
| C/L    | INDICATES CENTERLINE                                   |
| ABAND. | INDICATES ABANDONED                                    |
| B.O.P. | INDICATES BOTTOM OF PIPE                               |
| T.O.P. | INDICATES TOP OF PIPE                                  |
| SPPWC  | INDICATES STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION |
| D.I.P. | INDICATES DUCTILE IRON PIPE                            |
| P.V.C. | INDICATES POLYVINYL CHLORIDE                           |
| G      | INDICATES EXISTING GAS                                 |
| S      | INDICATES EXISTING SEWER                               |
| ---    | INDICATES EXISTING STORM DRAIN                         |
| W      | INDICATES EXISTING WATER                               |
| F      | INDICATES FUEL LINE                                    |
| TV     | INDICATES CABLE TV                                     |

## SYMBOL LEGEND

| SYMBOL | DESCRIPTION     |
|--------|-----------------|
| ⊗      | VALVE           |
| ⊗      | FIRE HYDRANT    |
| ①      | CONSTRUCTION ID |

## BENCH MARK DATA

CLB BM#55A  
ATLANTIC AVE @ WARDLOW RD  
BRASS DISC IN WELL; STAMPED "CITY OF LONG BEACH", S'LY MON. OF THE TWO CL INTERSECTION MONUMENTS.  
NGVD 29 MSL ELEV 86.992 1985 ADJ



PLANS PREPARED UNDER THE SUPERVISION OF:

**WALDEN & ASSOCIATES**  
CIVIL ENGINEERS  
LAND SURVEYORS  
PLANNERS  
2552 WHITE ROAD, SUITE B, IRVINE, CA 92614  
(949) 660-0110 FAX: 660-0418

SIGNATURE: *Marian Vadrkerti, P.E.*  
MARIAN VADRKERTI, P.E.  
R.C.E. NO. 72027 DATE 11/15/22

REGISTERED PROFESSIONAL ENGINEER  
No. 72027  
Exp. 6-30-24  
CIVIL  
STATE OF CALIFORNIA

| REV. | DATE | DESCRIPTION | BY | CHK'D. | APP'D. |
|------|------|-------------|----|--------|--------|
|      |      |             |    |        |        |

| DEPARTMENT    | CHECKED BY | DATE | DRAWN BY | M.V. | DATE | 11-15-2022 | SCALE | AS NOTED |
|---------------|------------|------|----------|------|------|------------|-------|----------|
| FIRE          |            |      |          |      |      |            |       | H-22     |
| CITY ENL.     |            |      |          |      |      |            |       | H-22     |
| GAS           |            |      |          |      |      |            |       | H-22     |
| EDISON CO.    |            |      |          |      |      |            |       |          |
| GEN. TEL. CO. |            |      |          |      |      |            |       |          |

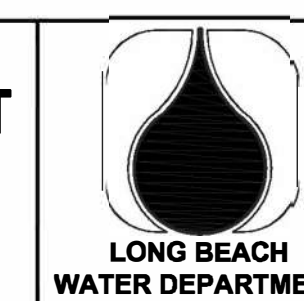
| RECOMMENDED            | DATE | 11/30/2022 |
|------------------------|------|------------|
| MANAGER OF ENGINEERING |      |            |

| APPROVED                               | DATE | 11/30/2022 |
|--|------|------------|
| DIRECTOR OF ENGINEERING/CHIEF ENGINEER |      |            |

## LONG BEACH WATER DEPARTMENT

CHRISTOPHER J. GARNER  
GENERAL MANAGER



530 E. 33RD STREET DEVELOPMENT  
CONSTRUCTION OF 230-FOET OF 8-INCH DOMESTIC WATER MAIN

DRAWING-FILE NUMBER:

**MC-5235**

FAMIS PROJECT CODE: WAPM-JH  
MUNS PROJECT CODE: 600202302  
SHEET 1 OF 3 SHEETS



# Attachment A

**TRENCH SECTION**

|                  | PAVEMENT                         | SUBBASE                                     | TRENCH BACKFILL   | BEDDING PIPE *<br>BASE WATER MAIN                     | BEDDING PIPE<br>BASE SEWER MAIN |
|------------------|----------------------------------|---|---|---|---------------------------------|
| MATERIAL         | ASPHALTIC OR CEMENT CONCRETE     | CAB OR CMB                                  | 1-SACK CEMENT SLURRY  | NATIVE / IMPORT** OR CMB BACKFILL                     | 1-SACK CEMENT SLURRY            |
| REQUIREMENTS     | EXISTING THICKNESS PLUS ONE INCH | SAME THICKNESS AS EXISTING - 95% COMPACTION | 90% COMPACTION  | 90% COMPACTION  | 90% COMPACTION                  |
| THICKNESS LIMITS | 4-INCH MIN 8-INCH MAX            | 6-INCH MIN 8-INCH IF NONE EXIST 8-INCH MAX  | *USE WATER MAIN BEDDING AND PIPE BASE FOR ABS OR PVC SEWER PIPE | ** IMPORT BACKFILL SHALL BE SAND EQUIVALENT (SE) > 30 |                                 |

**TRENCH RESTORATION - WATER AND SEWER WDS - 406**

LONG BEACH WATER DEPARTMENT  
 RECOMMENDED: [Signature] MANAGER OF ENGINEERING  
 APPROVED: [Signature] CHIEF ENGINEER  
 DATE: 3/14/17 SCALE: N.T.S. SHEET 1 OF 2

**NOTES:**

- ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE REQUIREMENTS PROVIDED IN THE LONG BEACH WATER DEPARTMENT STANDARDS AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CURRENT EDITION.
- PERMANENT PAVEMENT RESTORATION SHALL COMMENCE WITHIN 14 WORKING DAYS FROM COMPLETION OF CONSTRUCTION OR AFTER A MAXIMUM OF 500 LINEAR FEET OF TRENCH CONSTRUCTION HAS BEEN COMPLETED, WHICHEVER COMES FIRST.
- ALL CONCRETE OR CONCRETE OVERLAID STREETS AND ALLEYS SHALL BE SAW CUT TO FULL DEPTH OF PAVEMENT. SAWCUTTING OF ASPHALT PAVEMENT SHALL BE OPTIONAL. OTHER METHODS OF ASPHALT PAVEMENT CUTTING REQUIRES APPROVAL BY THE WATER DEPARTMENT PRIOR TO START OF CONSTRUCTION.
- DURING CONSTRUCTION WHEN TEMPORARY ASPHALT IS USED, IT SHALL BE PLACED 4 INCH MIN THICK AND COMPACTED BY MEANS OF A SELF-PROPELLED STEEL WHEEL ROLLER.
- WHEN ANY TRENCH PAVEMENT RESTORATION OCCURS WITHIN 3 FEET OF A CONSTRUCTION JOINT, EXPANSION JOINT, COLD JOINT, OR EDGE, THE PAVEMENT BETWEEN THE TRENCH AND THE JOINT, OR EDGE SHALL BE REMOVED AND REPLACED IN KIND WITH THE TRENCH PAVING.
- COMPACTION TESTS SHALL BE PERFORMED DURING BACKFILL OPERATION AT 100 FOOT INTERVALS AT VARYING DEPTHS AS DETERMINED IN THE FIELD BY WATER DEPARTMENT AUTHORITY.
- NATIVE SOIL, DEEMED UNSUITABLE FOR BACKFILL BY THE WATER DEPARTMENT SHALL BE REPLACED WITH IMPORTED BACKFILL WITH A SAND EQUIVALENT GREATER THAN 30 OR CMB.
- BACKFILL SHALL BE MECHANICALLY COMPACTED. NO JETTING IS ALLOWED.
- TRENCH PATCH SHALL NOT BE CROWNED AT CENTER.
- OUTER DIMENSION DOES NOT APPLY TO SINGLE EXCAVATIONS SMALLER THAN 5x5.
- REPLACE OBLITERATED STRIPING WITHIN 7 DAYS OF PERMANENT PAVING.
- TEMPORARY TRAFFIC PLATING SHALL BE PER WDS-128.
- FINISHED SURFACE PAVING SHALL BE PLACED NO SOONER THAN 5 DAYS NOR LATER THAN 10 DAYS AFTER BASE PAVING.
- TEMPORARY TRAFFIC PLATING SHALL BE PER WDS-128.
- BASE PAVING MAY BE ALLOWED TO REMAIN IN PLACE LONGER THAN 10 DAYS WITH APPROVAL OF THE WATER DEPARTMENT CHIEF ENGINEER.
- TRENCH SUBGRADE SHALL BE INSPECTED BY THE ENGINEER FOR SUITABILITY. MATERIAL DEEMED UNSTABLE SHALL BE EXCAVATED AND REPLACED WITH COARSE CMB TO A DEPTH AS APPROVED BY THE ENGINEER.

**TRENCH RESTORATION - WATER AND SEWER WDS - 406**

LONG BEACH WATER DEPARTMENT  
 RECOMMENDED: [Signature] MANAGER OF ENGINEERING  
 APPROVED: [Signature] CHIEF ENGINEER  
 DATE: 3/14/17 SCALE: N.T.S. SHEET 2 OF 2

**ELEVATION**

**SECTION A-A**

**NOTES:**

- COAT ALL FITTINGS, VALVES, AND BOLTED COUPLINGS WITH NO-OX-ID A SPECIAL COMPOUND AND WRAP WITH NO-OX-ID TAPE. ENCASE IN TWO LAYERS OF 8-MIL POLYETHYLENE WRAP.
- ENCASE DUCTILE IRON PIPE, FIRE HYDRANT BURY AND 6" FIRE HYDRANT EXTENSION WITH TWO LAYERS OF 8-MIL POLYETHYLENE WRAP.
- FIRE HYDRANTS SHALL BE PER LBWD STANDARD SPECIFICATION.
- ALL FIRE HYDRANTS SHALL HAVE A 2-1/2" DOME OUTLET.

**FIRE HYDRANT ASSEMBLY WDS - 102**

LONG BEACH WATER DEPARTMENT  
 RECOMMENDED: [Signature] DIRECTOR OF ENGINEERING  
 APPROVED: [Signature] DEPUTY GENERAL MANAGER / CHIEF ENGINEER  
 DATE: 02-2020 SCALE: N.T.S. SHEET 1 OF 2

| DUCTILE IRON FIRE HYDRANT BODY | DIMENSIONS (INCHES) |       |
|--------------------------------|---------------------|-------|
|                                | A                   | B     |
| BRONZE FIRE HYDRANT BODY       | 3                   | 2-3/8 |
|                                | 2-1/2               | 2     |

**NOTES:**

- MATERIAL: BLACK LOW CARBON STEEL ASTM A-307 HOT - DIPPED GALVANIZED COATING.
- BOLTS TO BE INSTALLED ON FLANGE WITH HEXAGONAL NUT ON TOP.
- FILL HOLLOW WITH SILICONE AND COAT BOLT WITH NO-OX-ID GREASE.

**FIRE HYDRANT ASSEMBLY WDS - 102**

LONG BEACH WATER DEPARTMENT  
 RECOMMENDED: [Signature] DIRECTOR OF ENGINEERING  
 APPROVED: [Signature] DEPUTY GENERAL MANAGER / CHIEF ENGINEER  
 DATE: 02-2020 SCALE: N.T.S. SHEET 2 OF 2

**2-PHASE MAIN CONNECTION-A (PER WDS-101)**

PHASE I: CONSTRUCT NEW 8" DR-14 P.V.C. WATER MAIN IN E. 33RD STREET WITH TEMPORARY BLOW-OFF, ISOLATION PLATE, AND GASKET SEAL. PRESSURE TEST, CHLORINATE AND OBTAIN CLEARANCE FOR BACTERIA TESTS. NOTE: PRESSURE TESTING AGAINST CLOSED VALVE IS PROHIBITED.

PHASE II: REMOVE TEMPORARY BLOW-OFF, ISOLATION PLATE, AND GASKET SEAL. INSTALL NEW TRANSITION COUPLING AND CONNECT NEW LINE TO EXISTING WATER MAIN. RESAMPLE FOR BACTERIA TESTING.

16+83.59 END PHASE I  
 16+85.00 BEGIN PHASE II

EXIST. 12" C.I.P.  
 THRUST BLOCK PER WDS-107

NEW 8" P.V.C. PHASE I  
 12"x12" x8' WET-TAPPING SADDLE, BOP=±87.6 POTHOLE AND FIELD VERIFY LOCATION

NEW 8" FLANGED VALVE J22-WA-033

PHASE I: INSTALL TEMPORARY BLOW-OFF  
 PHASE II: REMOVE BLOW-OFF, CONNECT NEW P.V.C. PIPE TO EXIST. 12" LINE

**PHASE CONNECTION DETAIL**  
 NOT TO SCALE

**2-PHASE MAIN CONNECTION-B (PER WDS-101)**

PHASE I: CONSTRUCT NEW 6" DR-14 P.V.C. WATER MAIN IN NORTH-SOUTH ALLEY EAST OF LINDEN AVENUE WITH TEMPORARY BLOW-OFF, ISOLATION PLATE, AND GASKET SEAL. PRESSURE TEST, CHLORINATE AND OBTAIN CLEARANCE FOR BACTERIA TESTS. NOTE: PRESSURE TESTING AGAINST CLOSED VALVE IS PROHIBITED.

PHASE II: REMOVE TEMPORARY BLOW-OFF, ISOLATION PLATE, AND GASKET SEAL. INSTALL NEW TRANSITION COUPLING AND CONNECT NEW LINE TO EXISTING WATER MAIN. RESAMPLE FOR BACTERIA TESTING.

14+96.21 END PHASE I  
 14+98.50 BEGIN PHASE II

EXIST. 6" A.C.P.  
 THRUST BLOCK PER WDS-107

NEW 6" P.V.C. PHASE I  
 6" 45° BEND, BOP=±84.4 POTHOLE AND FIELD VERIFY LOCATION

PHASE I: INSTALL TEMPORARY BLOW-OFF  
 PHASE II: REMOVE BLOW-OFF, CONNECT NEW P.V.C. PIPE TO EXIST. 6" LINE, ABANDON UNUSED EXIST. 6" LINE

**PHASE CONNECTION DETAIL**  
 NOT TO SCALE

**2-PHASE MAIN CONNECTION-C (PER WDS-101)**

PHASE I: CONSTRUCT NEW 6" DR-14 P.V.C. WATER MAIN IN NORTH-SOUTH ALLEY EAST OF LINDEN AVENUE WITH TEMPORARY BLOW-OFF, ISOLATION PLATE, AND GASKET SEAL. PRESSURE TEST, CHLORINATE AND OBTAIN CLEARANCE FOR BACTERIA TESTS. NOTE: PRESSURE TESTING AGAINST CLOSED VALVE IS PROHIBITED.

PHASE II: REMOVE TEMPORARY BLOW-OFF, ISOLATION PLATE, AND GASKET SEAL. INSTALL NEW TRANSITION COUPLING AND CONNECT NEW LINE TO EXISTING WATER MAIN. RESAMPLE FOR BACTERIA TESTING.

14+69.67 END PHASE I  
 14+72.17 BEGIN PHASE II

EXIST. 6" A.C.P.  
 THRUST BLOCK PER WDS-107

NEW 6" P.V.C. PHASE I  
 6" 45° BEND, BOP=±84.4 POTHOLE AND FIELD VERIFY LOCATION

NEW 6" FLANGED VALVE H22-WA-101

PHASE I: INSTALL TEMPORARY BLOW-OFF  
 PHASE II: REMOVE BLOW-OFF, CONNECT NEW P.V.C. PIPE TO EXIST. 6" LINE, ABANDON UNUSED EXIST. 6" LINE

**PHASE CONNECTION DETAIL**  
 NOT TO SCALE

**10" FIRELINE SERVICE**  
 ELEVATION A-A  
 NOT TO SCALE  
 SHOWN FOR REFERENCE ONLY

**CONSTRUCTION NOTES & QUANTITIES**

| WATER | NO.  | DESCRIPTION   | QUANTITY | UNIT |
|-------|------|---|----------|------|
|       | (1)  | PROTECT IN PLACE (ITEM AS NOTED)  | -        | -    |
|       | (2)  | INSTALL 8" P.V.C. (AWWA C900 DR-14) WATER MAIN PER LBWD LATEST SPECIFICATIONS.  | 230      | LF   |
|       | (2A) | INSTALL 6" P.V.C. (AWWA C900 DR-14) WATER MAIN PER LBWD LATEST SPECIFICATIONS.  | 30       | LF   |
|       | (3)  | ABANDON EXISTING 6" WATER MAIN IN PLACE PER LBWD STD. WDS-121.  | 215      | LF   |
|       | (4)  | SAWCUT EXISTING PAVEMENT FOR UTILITY TRENCH. REPLACE PAVEMENT IN KIND PER LBWD MODIFIED WDS-406 ON SHEET 2. INSTALL TEMPORARY STEEL PLATES PER WDS-128.   | 890      | SF   |
|       | (5)  | INSTALL 2" DOMESTIC WATER SERVICE WITH 2" METER (BY LBWD) PER LBWD STD. WDS-002.  | 1        | EA   |
|       | (6)  | TAP ON EXISTING 12" AC-FT PIPE AND INSTALL 12" X 12" X 8" LONG BODY STYLE STAINLESS STEEL TAPPING SLEEVE (FIELD VERIFY POINT OF CONNECTION).  | 1        | EA   |
|       | (7)  | INSTALL 8" X 8" X 8" D.I.P. REDUCING TEE (P.O. X P.O. X FLG.)   | 2        | EA   |
|       | (8)  | INSTALL 8" X 8" X 8" D.I.P. REDUCING TEE (P.O. X P.O. X FLG.)   | 1        | EA   |
|       | (9)  | INSTALL 8" X 45° D.I.P.O. X P.O. BEND   | 4        | EA   |
|       | (10) | INSTALL 6" X 45° P.O. X P.O. BEND.  | 4        | EA   |
|       | (11) | INSTALL 10" X 90° FLG. SHORT RADIUS BEND.   | 4        | EA   |
|       | (12) | CONSTRUCT THRUST BLOCK PER LBWD STD. WDS-107.   | 10       | EA   |
|       | (13) | INSTALL 2" FLANGED X PUSH-ON VALVE H22-WB0-100.   | 1        | EA   |
|       | (14) | INSTALL 6" D.I.P. FLANGED VALVE H22-WA-098.   | 1        | EA   |
|       | (15) | INSTALL 8" D.I.P. FLANGED VALVE J22-WA-033.   | 1        | EA   |
|       | (16) | INSTALL 8" FLANGED X PUSH-ON CONNECTING PIECE.  | 2        | EA   |
|       | (17) | INSTALL 10" X 8" FLANGED X PUSH-ON CONNECTING PIECE.  | 1        | EA   |
|       | (18) | INSTALL GATE BOX TO GRADE PER LBWD STD. WDS-115, WDS-116 & WDS-119.   | 5        | EA   |
|       | (19) | RELOCATE EXISTING REDUCED PRESSURE BACKFLOW ASSEMBLY PER SEPARATE PLUMBING PLAN.  | 1        | EA   |
|       | (20) | INSTALL 2" ZURR-WILKINS 975XL2 DOMESTIC WATER BACKFLOW PREVENTER (BY CONTRACTOR) PER SEPARATE PLUMBING PLAN.  | 1        | EA   |
|       | (21) | INSTALL 10" AMES 3000SS DOUBLE CHECK DETECTOR ASSEMBLY (DCCA) PER LBWD STD. WDS-006.1. PROVIDE CHAINS AND LOCK FOR LOCKING HAND WHEELS.   | 1        | EA   |
|       | (22) | INSTALL 2" BLOW-OFF ASSEMBLY BOXED TO GRADE PER LBWD STD. WDS-113.1   | 1        | EA   |
|       | (23) | REMOVE EXISTING FIRE HYDRANT ASSEMBLY AND INSTALL NEW FIRE HYDRANT ASSEMBLY WITH VALVE AND THRUST RESTRAINTS PER LBWD STD. WDS-102.   | 1        | EA   |
|       | (24) | INSTALL 8" D.I.P. FLANGED VALVE H22-WA-097.   | 1        | EA   |
|       | (25) | INSTALL 10" FABRICATED DIP SPOOL (CLASS 53).  | 2        | EA   |
|       | (26) | NOT USED.   | 2        | EA   |
|       | (27) | INSTALL 2 LF 10" DIA. DIP SPOOL (CLASS 53). POINT OF CONNECTION FOR C-16 FIRE PROTECTION CONTRACTOR. THEY SHALL INSTALL TEST PLATE TO STAY IN PLACE UNTIL AFTER COMPLETION OF ON-SITE PRESSURE TESTING. | 1        | EA   |
|       | (28) | INSTALL DCCA SUPPORT SLAB PER LBWD STD. WDS-010.  | 1        | EA   |
|       | (29) | INSTALL METER SUPPORTS PER LBWD STD. WDS-008.   | 2        | EA   |
|       | (30) | INSTALL 8" D.I.P. FLANGED VALVE H22-WA-099.   | 1        | EA   |
|       | (31) | INSTALL 8" D.I.P. FLANGED VALVE H22-WA-101.   | 1        | EA   |
|       | (32) | INSTALL AC TO PVC TRANSITION COUPLING PER LBWD STD. REQUIREMENTS.   | 1        | EA   |
| SEWER | (40) | REMOVE AND REPLACE SEWER LATERAL IN PLACE PER LBWD STD. WDS-511. TRENCH AND BACKFILL PER WDS-406.   | 33       | LF   |
|       | (41) | INSTALL NEW 6" CLEANOUT PER LBWD STANDARD WDS-506.  | 1        | EA   |

**Underground Service Alert**  
 Call: **811**  
 TWO WORKING DAYS BEFORE YOU DIG

**METER LOCATION**

|              |  |
|--------------|--|
| W.O. P010859 |  |
| FT. E/W PL   |  |
| FT. N/S PL   |  |

| REV. | DATE | DESCRIPTION | BY | CK'D | APP'D |
|------|------|-------------|----|------|-------|
|      |      |             |    |      |       |

| DEPARTMENT    | CHECKED BY | DATE | DRAWN BY | M.V. | DATE 11-15-2022 | SCALE | 1" = 20' |
|---------------|------------|------|----------|------|-----------------|-------|----------|
| FIRE          |            |      |          |      |                 |       |          |
| CITY ENG.     |            |      |          |      |                 |       |          |
| GAS           |            |      |          |      |                 |       |          |
| EDISON CO.    |            |      |          |      |                 |       |          |
| GEN. TEL. CO. |            |      |          |      |                 |       |          |

| DATE | CHECKED BY | DATE | POSTED GIS | DATE | VALUES RECORDED | DATE | CONSTRUCTED BY | DATE | SPEC. NO. | CONTRACT NO. |
|------|------------|------|------------|------|-----------------|------|----------------|------|-----------|--------------|
|      |            |      |            |      |                 |      |                |      |           |              |

RECOMMENDED: [Signature] MANAGER OF ENGINEERING  
 DATE: 11/30/2022

APPROVED: [Signature] DIRECTOR OF ENGINEERING/CHIEF ENGINEER  
 DATE: 11/30/2022

**LONG BEACH WATER DEPARTMENT**  
 CHRISTOPHER J. GARNER  
 GENERAL MANAGER



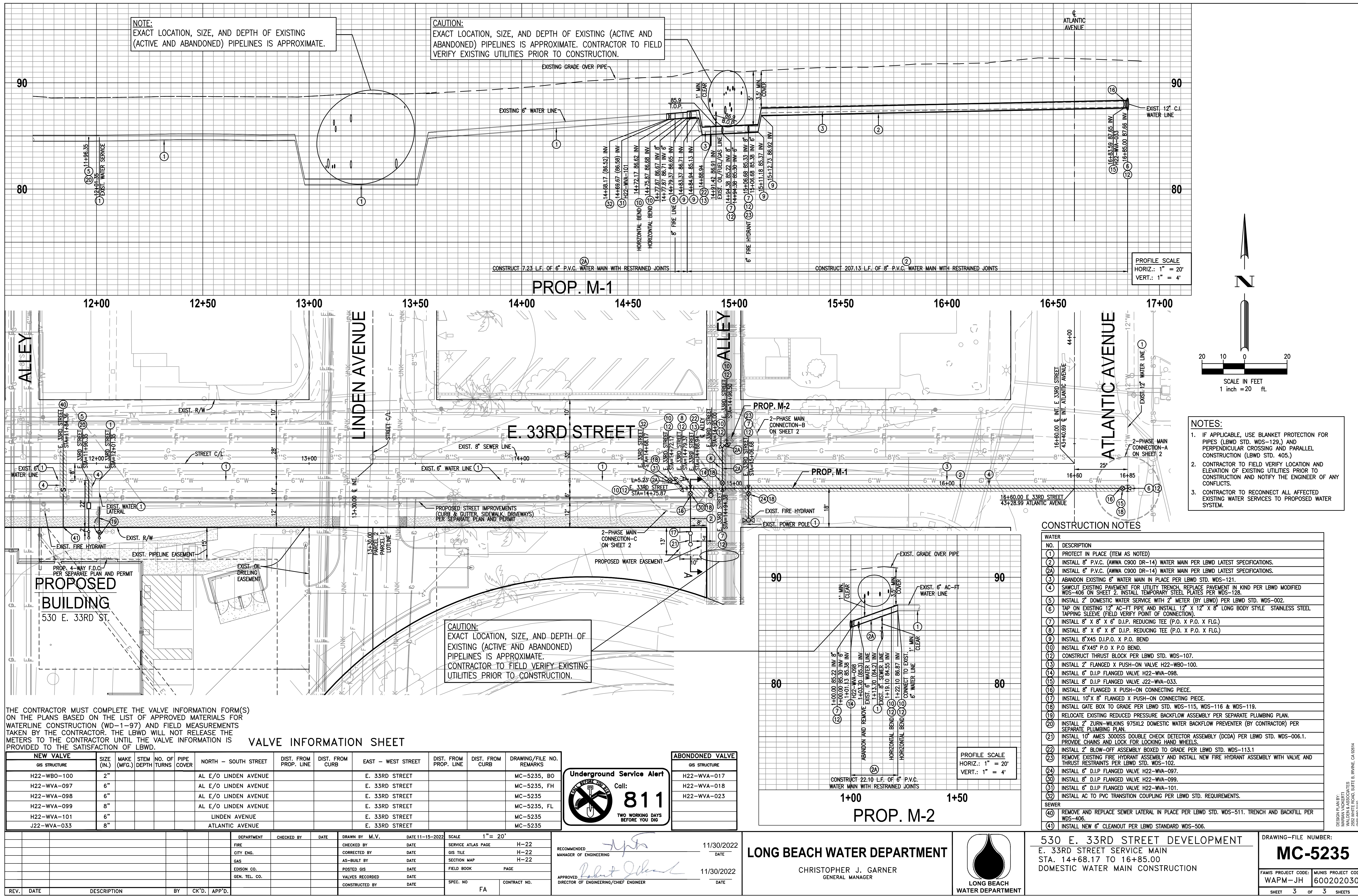
530 E. 33RD STREET DEVELOPMENT  
 10-INCH FIRELINE SERVICE - STA. 14+79.37  
 DETAILS

DRAWING-FILE NUMBER:  
**MC-5235**  
 FAMS PROJECT CODE: WAPM-JH  
 MUMS PROJECT CODE: 6002020302  
 SHEET 2 OF 3 SHEETS

DESIGN BY: [Signature]  
 MASON VANDERBILT  
 WALSHE & ASSOCIATES  
 1000 S. STATE ST. SUITE 8, IRVINE, CA 92614  
 (949) 860-0110



# Attachment A



**NOTE:**  
EXACT LOCATION, SIZE, AND DEPTH OF EXISTING (ACTIVE AND ABANDONED) PIPELINES IS APPROXIMATE.

**CAUTION:**  
EXACT LOCATION, SIZE, AND DEPTH OF EXISTING (ACTIVE AND ABANDONED) PIPELINES IS APPROXIMATE. CONTRACTOR TO FIELD VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION.

**NOTES:**

- IF APPLICABLE, USE BLANKET PROTECTION FOR PIPES (LBWD STD. WDS-129.) AND PERPENDICULAR CROSSING AND PARALLEL CONSTRUCTION (LBWD STD. 405.)
- CONTRACTOR TO FIELD VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY CONFLICTS.
- CONTRACTOR TO RECONNECT ALL AFFECTED EXISTING WATER SERVICES TO PROPOSED WATER SYSTEM.

**CONSTRUCTION NOTES**

| NO.     | DESCRIPTION   |
|---------|---|
| (1)     | PROTECT IN PLACE (ITEM AS NOTED)  |
| (2)     | INSTALL 8" P.V.C. (AWWA C900 DR-14) WATER MAIN PER LBWD LATEST SPECIFICATIONS.  |
| (2A)    | INSTALL 6" P.V.C. (AWWA C900 DR-14) WATER MAIN PER LBWD LATEST SPECIFICATIONS.  |
| (3)     | ABANDON EXISTING 6" WATER MAIN IN PLACE PER LBWD STD. WDS-121.  |
| (4)     | SAWCUT EXISTING PAVEMENT FOR UTILITY TRENCH, REPLACE PAVEMENT IN KIND PER LBWD MODIFIED WDS-406 ON SHEET 2. INSTALL TEMPORARY STEEL PLATES PER WDS-128. |
| (5)     | INSTALL 2" DOMESTIC WATER SERVICE WITH 2" METER (BY LBWD) PER LBWD STD. WDS-002.  |
| (6)     | TAP ON EXISTING 12" AC-FT PIPE AND INSTALL 12" X 12" X 8" LONG BODY STYLE STAINLESS STEEL TAPPING SLEEVE (FIELD VERIFY POINT OF CONNECTION).            |
| (7)     | INSTALL 8" X 8" X 6" D.I.P. REDUCING TEE (P.O. X P.O. X FLG.)   |
| (8)     | INSTALL 8" X 8" X 8" D.I.P. REDUCING TEE (P.O. X P.O. X FLG.)   |
| (9)     | INSTALL 8" X 45° D.I.P.O. X P.O. BEND   |
| (10)    | INSTALL 6" X 45° P.O. X P.O. BEND   |
| (12)    | CONSTRUCT THRUST BLOCK PER LBWD STD. WDS-107.   |
| (13)    | INSTALL 2" FLANGED X PUSH-ON VALVE H22-WBO-100.   |
| (14)    | INSTALL 8" D.I.P. FLANGED VALVE H22-WA-098.   |
| (15)    | INSTALL 8" D.I.P. FLANGED VALVE J22-WA-033.   |
| (16)    | INSTALL 8" FLANGED X PUSH-ON CONNECTING PIECE.  |
| (17)    | INSTALL 10" X 8" FLANGED X PUSH-ON CONNECTING PIECE.  |
| (18)    | INSTALL GATE BOX TO GRADE PER LBWD STD. WDS-115, WDS-116 & WDS-119.   |
| (19)    | RELOCATE EXISTING REDUCED PRESSURE BACKFLOW ASSEMBLY PER SEPARATE PLUMBING PLAN.  |
| (20)    | INSTALL 2" ZURN-WILKINS 975XL2 DOMESTIC WATER BACKFLOW PREVENTER (BY CONTRACTOR) PER SEPARATE PLUMBING PLAN.  |
| (21)    | INSTALL 10" AMES 3000SS DOUBLE CHECK DETECTOR ASSEMBLY (DCCA) PER LBWD STD. WDS-006.1. PROVIDE CHAINS AND LOCK FOR LOCKING HAND WHEELS.                 |
| (22)    | INSTALL 2" BLOW-OFF ASSEMBLY BOXED TO GRADE PER LBWD STD. WDS-113.1   |
| (23)    | REMOVE EXISTING FIRE HYDRANT ASSEMBLY AND INSTALL NEW FIRE HYDRANT ASSEMBLY WITH VALVE AND THRUST RESTRAINTS PER LBWD STD. WDS-102.                     |
| (24)    | INSTALL 8" D.I.P. FLANGED VALVE H22-WA-097.   |
| (30)    | INSTALL 8" D.I.P. FLANGED VALVE H22-WA-099.   |
| (31)    | INSTALL 8" D.I.P. FLANGED VALVE H22-WA-101.   |
| (32)    | INSTALL AC TO PVC TRANSITION COUPLING PER LBWD STD. REQUIREMENTS.   |
| (SEWER) |   |
| (40)    | REMOVE AND REPLACE SEWER LATERAL IN PLACE PER LBWD STD. WDS-511. TRENCH AND BACKFILL PER WDS-406.   |
| (41)    | INSTALL NEW 6" CLEANOUT PER LBWD STANDARD WDS-506.  |

THE CONTRACTOR MUST COMPLETE THE VALVE INFORMATION FORM(S) ON THE PLANS BASED ON THE LIST OF APPROVED MATERIALS FOR WATERLINE CONSTRUCTION (WD-1-97) AND FIELD MEASUREMENTS TAKEN BY THE CONTRACTOR. THE LBWD WILL NOT RELEASE THE METERS TO THE CONTRACTOR UNTIL THE VALVE INFORMATION IS PROVIDED TO THE SATISFACTION OF LBWD.

**VALVE INFORMATION SHEET**

| NEW VALVE   | SIZE (IN.) | MAKE (MFG.) | STEM DEPTH | NO. OF TURNS | PIPE COVER | NORTH - SOUTH STREET | DIST. FROM PROP. LINE | DIST. FROM CURB | EAST - WEST STREET | DIST. FROM PROP. LINE | DIST. FROM CURB | DRAWING/FILE NO. REMARKS |
|-------------|------------|-------------|------------|--------------|------------|----------------------|-----------------------|-----------------|--------------------|-----------------------|-----------------|--------------------------|
| H22-WBO-100 | 2"         |             |            |              |            | AL E/O LINDEN AVENUE |                       |                 | E. 33RD STREET     |                       |                 | MC-5235, BO              |
| H22-WVA-097 | 6"         |             |            |              |            | AL E/O LINDEN AVENUE |                       |                 | E. 33RD STREET     |                       |                 | MC-5235, FH              |
| H22-WVA-098 | 6"         |             |            |              |            | AL E/O LINDEN AVENUE |                       |                 | E. 33RD STREET     |                       |                 | MC-5235, FL              |
| H22-WVA-099 | 8"         |             |            |              |            | AL E/O LINDEN AVENUE |                       |                 | E. 33RD STREET     |                       |                 | MC-5235, FL              |
| H22-WVA-101 | 6"         |             |            |              |            | LINDEN AVENUE        |                       |                 | E. 33RD STREET     |                       |                 | MC-5235                  |
| J22-WVA-033 | 8"         |             |            |              |            | ATLANTIC AVENUE      |                       |                 | E. 33RD STREET     |                       |                 | MC-5235                  |



**ABANDONED VALVE**

| GIS STRUCTURE | REMARKS |
|---------------|---------|
| H22-WVA-017   |         |
| H22-WVA-018   |         |
| H22-WVA-023   |         |

| REV. | DATE | DESCRIPTION | BY | CK'D. | APP'D. | DEPARTMENT | CHECKED BY | DATE | DRAWN BY | M.V. | DATE | 11-15-2022 | SCALE | 1" = 20' | SERVICE ATLAS PAGE | H-22 | CITY ENG. | CHECKED BY | DATE | GIS TILE | H-22 | GAS | AS-BUILT BY | DATE | SECTION MAP | H-22 | EDISON CO. | POSTED GIS | DATE | FIELD BOOK | PAGE | GEN. TEL. CO. | VALVES RECORDED | DATE | SPEC. NO. | CONTRACT NO. | FA |  |
|------|------|-------------|----|-------|--------|------------|------------|------|----------|------|------|------------|-------|----------|--------------------|------|-----------|------------|------|----------|------|-----|-------------|------|-------------|------|------------|------------|------|------------|------|---------------|-----------------|------|-----------|--------------|----|--|
|      |      |             |    |       |        |            |            |      |          |      |      |            |       |          |                    |      |           |            |      |          |      |     |             |      |             |      |            |            |      |            |      |               |                 |      |           |              |    |  |

**Underground Service Alert**  
Call 811  
TWO WORKING DAYS BEFORE YOU DIG

RECOMMENDED: 11/30/2022  
MANAGER OF ENGINEERING

APPROVED: 11/30/2022  
DIRECTOR OF ENGINEERING/CHIEF ENGINEER

**LONG BEACH WATER DEPARTMENT**  
CHRISTOPHER J. GARNER  
GENERAL MANAGER

**530 E. 33RD STREET DEVELOPMENT**  
E. 33RD STREET SERVICE MAIN  
STA. 14+68.17 TO 16+85.00  
DOMESTIC WATER MAIN CONSTRUCTION

DRAWING-FILE NUMBER:  
**MC-5235**

FAMS PROJECT CODE: WAPM-JH  
MUNIS PROJECT CODE: 6002020302

SHEET 3 OF 3 SHEETS



## LEGAL DESCRIPTION EASEMENT FOR WATER PURPOSES

BEING THE NORTHERLY 13.00 FEET OF THE WESTERLY 10.00 FEET OF THE EASTERLY 12.64 FEET OF PARCEL 1 OF LOT MERGER NO. 2011-11, IN THE CITY OF LONG BEACH, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS DESCRIBED AND SHOWN ON THE NOTICE OF LOT MERGER AND GRANT OF CERTIFICATE OF COMPLIANCE, RECORDED OCTOBER 22, 2021 AS INSTRUMENT NO. 20211593890, OF OFFICIAL RECORDS.

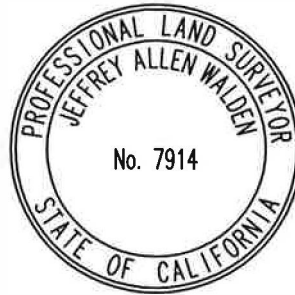
CONTAINS: 130.00 SQ. FT.

AS SHOWN ON EXHIBIT "B" ATTACHED HERETO AND MADE A PART HEREOF.

PREPARED BY ME OR UNDER MY DIRECTION

  
JEFFREY A. WALDEN, P.L.S. 7914

02-02-2023  
DATE



CIVIL ENGINEERS - LAND SURVEYORS - PLANNERS  
2552 WHITE ROAD, SUITE B • IRVINE, CA 92614-6236  
(949) 660-0110 FAX: 660-0418

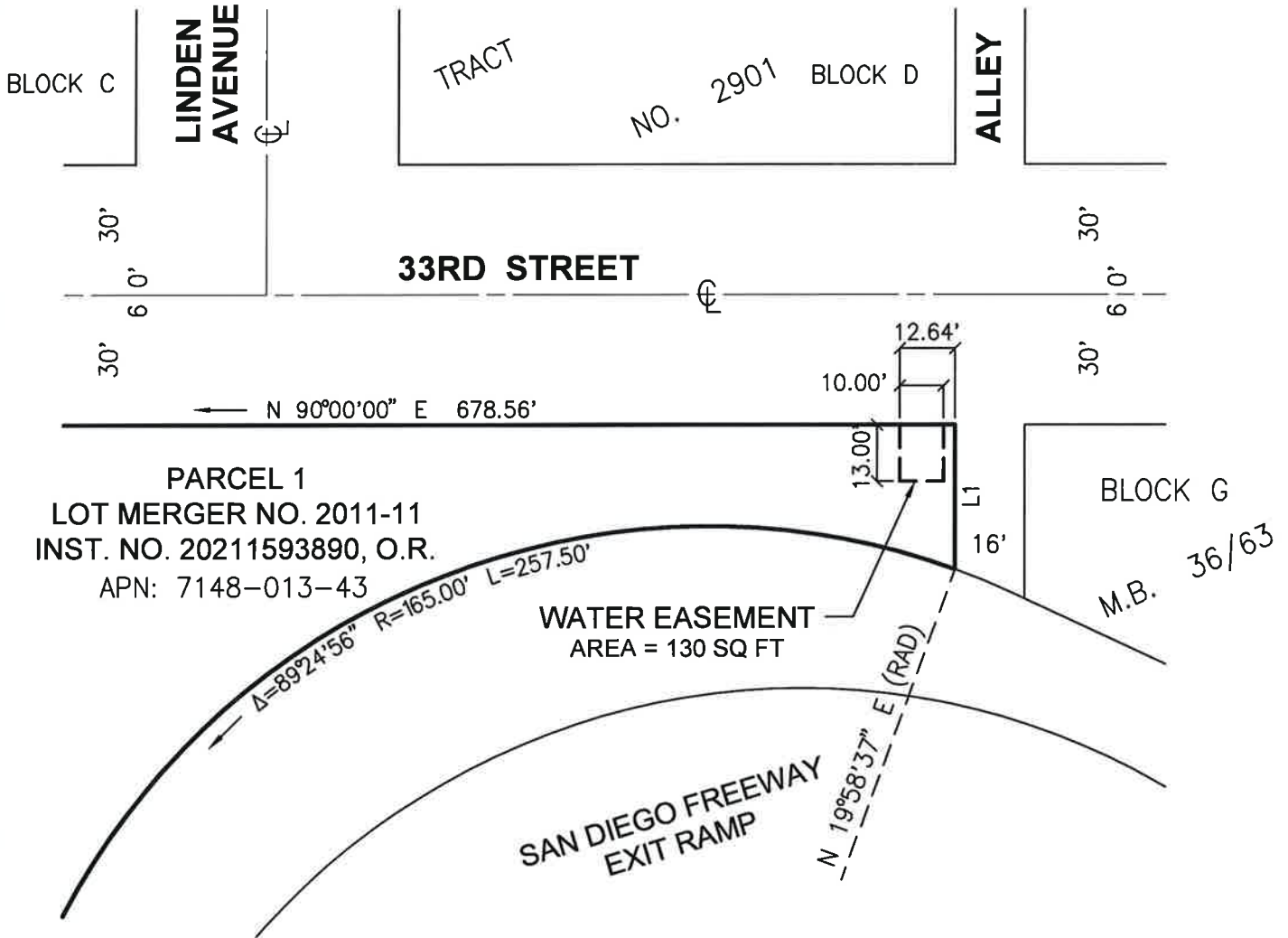
W.O. No. 2054-884-001  
Engr. B.J.W. Chk'd. M.V.

Date 02-02-2023  
Sheet 1 of 1

## PLAT EASEMENT FOR WATER PURPOSES



SCALE IN FEET  
1 INCH = 40 FEET



| LINE TABLE |               |        |
|------------|---------------|--------|
| L1         | N 00°00'00" W | 33.22' |



**WALDEN & ASSOCIATES**

CIVIL ENGINEERS - LAND SURVEYORS - PLANNERS  
2552 WHITE ROAD, SUITE B • IRVINE, CA 92614-6236  
(949) 660-0110 FAX: 660-0418

W.O. No. 2054-884-001 Date 02-02-2023  
Engr. B.J.W. Chk'd. M.V. Sheet 1 of 1

