GENERAL NOTES:

Inspection of all materials and installation for pipeline, hydrants and services must be made by California Water Service. Telephone: (661) 832-2141 at least 48 hours before starting work on water facilities.

IMPORT BACKFILL REQUIRED WHEN

"WATER" LINEGUARD TAPE

GOVERNING AGENCY'S COMPACTION _

REQUIREMENTS CANNOT BE MET

(FOR ALL PIPE)

TRACER WIRE

(FOR ALL PIPE)

POLYETHYLENE

ENCASEMENT, 8MIL -

PVC C-900 PIPE OR

DUCTILE IRON PIPE

1. ALL EXCESS SPOIL IN TRACT IS TO REMAIN TRENCHSIDE AND

GRADE AFTER PERMANENT PAVEMENT HAS BEEN PLACED.

2. ALL VALVE CASINGS AND COVERS SHALL BE RAISED TO FINISHED

TRENCH CROSS SECTION

N.T.S.

├---- (W) ----

TRENCH NOTES FOR TIE-IN

(FOR STRAIGHT TIE-IN ONLY)

TRENCH WIDTH (W) SHALL BE ONE PIPE DIAMETER PLUS

12" ON EACH SIDE OF THE PIPE. (E.G. A 6" OR 8"

TRENCH LENGTH (L) SHALL BE 14' (MIN). (10' FOR

TIE-IN PLUS 2' EXPOSURE OF EXISTING AND NEW

TRENCH DEPTH (D) SHALL BE 12" (MIN) BELOW

DEVELOPER'S CONTRACTOR SHALL PROVIDE TRENCH

DEVELOPER'S CONTRACTOR SHALL BE RESPONSIBLE FOR EMBEDMENT BACKFILL, TRENCH BACKFILL, COMPACTION

TO REQUIREMENTS, AND FINAL PAVEMENT RESTORATION.

NOTE: IF UNFORESEEN CIRCUMSTANCES OR FIELD CONDITIONS ARISE THAT REQUIRE ALTERNATE OR ADDITIONAL MATERIALS FOR THE TIE-IN

TO THE EXISTING SYSTEM, THE DEVELOPER'S CONTRACTOR SHALL BE

(1)(7)(6)(5)(4)(3)(2)

TIE-IN DETAIL "A"

1. DEVELOPER'S CONTRACTOR SHALL INSTALL NEW MAIN AND ADJUST FROM NOMINAL LINE AND GRADE TO MATCH EXISTING FACILITIES AT THIS

CALIFORNIA WATER SERVICE WILL TIE THE NEW MAIN FROM THIS

THE DEVELOPER'S CONTRACTOR SHALL PROVIDE CALIFORNIA WATER

5. 1 - 12" x 6" REDUCER PO w/ 1 - 12" RING & 1 - 6" RING

NOTE: IN ADDITION, THE DEVELOPER'S CONTRACTOR SHALL PROVIDE:

REQUIRED TO COMPLETE THE TIE-IN SUCH AS, BUT NOT LIMITED TO:

MISC. MATERIAL AND EXCAVATION EQUIPMENT (I.E. EXCAVATOR/BACKHOE)

PROTECTION COATING MATERIAL FOR PIPE & FITTINGS, LINEGUARD TAPE, CONCRETE FOR THRUST BLOCKS, EMBEDMENT BACKFILL AROUND AND

OVER THE PIPE. FINAL BACKFILL TO MEET COMPACTION REQUIREMENTS.

TIE-IN INCLUDING BUT NOT LIMITED TO EXCAVATION & DE-WATERING.

PAVEMENT REPLACEMENT AND EQUIPMENT NECESSARY TO FACILITATE THE

3. 1 - 12" ACRB x DI FLEX COUPLING, 10" SLEEVE

7. 1 - 6" "CERTAINTEED" PVC CLOSURE COUPLING

SERVICE WITH THE FOLLOWING MATERIALS FOR THE TIE-IN IT WILL MAKE

LOCATION. THE DEVELOPER'S CONTRACTOR SHALL INSTALL A TEMPORARY

— EXCAVATE TO

EXPOSE 2' MIN.

12" BOTH

SIDES

RESPONSIBLE TO PROVIDE THIS MATERIAL TO THE COMPANY TO

MAIN REQUIRES A 30" TRENCH).

SHORING PER OSHA STANDARDS.

COMPLETE THE TIE-IN.

NEW MAIN:

EXCAVATE TO -

EXPOSE 2' MIN.

POUR THRUST BLOCK

OVER THE REDUCER

WITH BEARING AREA

OF 1.75(H)'x4.0'(W)

CAP AND BLOWOFF AT THIS LOCATION.

2. EXISTING MAIN, 12" AC PIPE

4. 5' - 12" DUCTILE IRON PIPE

6. 5' - 6" PVC C-900 PIPE

AT BERNARD STREET.

BOTTOM OF MAIN.

→ 12" BOTH SIDES

ALL EXCESS SPOIL OFF TRACT IS TO BE REMOVE.

(FOR DUCTILE IRON PIPE)

WITH NATIVE BACKFILL

PAVEMENT & BASEROCK

UNLESS

OTHERWISE

NOTED

(WHERE REQUIRED)

- 2. Contact Underground Service Alert at (800) 642-2444 at least 48 hours prior to the commencement of this project.
- Place a continuous wire and strip of detector tape over all pipe and extend up into all valve boxes. Tracer wire is required on all pipe. 4. For details of typical thrust block installation, see latest revision of drawing
- Protect underground flexible couplings, bare steel, MJxMJ sleeves, and all bolts (including stainless steel) as follows:
- a. The entire area of the fitting must be dry and free of dust, dirt, and other foreign matter. Rust or other foreign matter must be removed by scraping or wire brushing. Wiping with a dry clean cloth may be necessary to remove the particles from brush cleaning. Any oil or grease must be removed by using a low residue, volatile petroleum solvent before application of grease and wrapping.
- b. The exposed area should be coated with a heavy coating of Metalguard 301 grease by the glove method to a thickness of at least 1/4".
- c.Firmly wrap the entire grease area with one layer, half lapped of a woven glass filament mesh (Res or Bit Wrap, 4" wide).
- d.Apply a second layer of Metalguard 301 grease on top of the glass filament by the glove method to a thickness of at least 1/4". e. Firmly wrap the entire grease area with a second layer, half lapped of
- the woven glass filament mesh. f. Cover the entire mesh wrapped area of the fitting with a third and final coating at least 1/4" thick of Metalguard 301 grease by the glove
- g.Firmly apply 2 layers of polywrap, half lapped over all areas of the coated and wrapped fitting. Backfilling may follow immediately after this wrapping.
- 6. No valve covers or meter boxes are to lie in sidewalks, cross gutter, curb or driveways. Each service should also be located to provide protection to the meter box from auto traffic and parking.
- The exact location of each service to be determined at the time of installation to avoid conflicts with other utilities. Therefore, the number of long, short and split services may vary. Preferred CWS location to be staked and installed by developer's engineer. Any relocations after installation will be at developer's expense.
- Services shall be installed at least 10 feet horizontally from sewer laterals and at least 4 feet horizontally from any storm drain structure.
- 9. Location of blow-off in new street area will terminate where street improvement ends.
- 10. Services installed across street area will need import backfill when government agency's compaction requirements cannot be met with native
- 11. It is the responsibility of the contractor to verify the exact location and depth of all existing and proposed facilities prior to water main installation. 12. The list of materials for this project is for CWS estimating and reference purposes only and is not intended as a full take-off of material required.
- 13. This water plan design is based on incomplete and unapproved improvement plans. Therefore, sewers, storm drains and street grading conflicts may occur. 14. Contractor to ensure air in the pipeline is removed using existing outlets,
- such as fire hydrants and blowoffs. Contractor is responsible for installing air releases if existing outlets are insufficient. 15. Facilities separation: A. Water main shall be installed at least 10 feet horizontally from and one
- foot vertically above any parallel pipeline conveying sewage (untreated, primary, or secondary), disinfected secondary recycled water, or hazardous fluids. Center a full nominal laying length of pipe at crossings.
- B.Water main shall be installed at least 4 feet horizontally from and one foot vertically above any pipeline conveying tertiary recycled water or storm
- C.At crossings, water main shall be constructed no less than 45-degrees to and at least one foot vertically above any pipelines indicated in A and B
- D.No connection joints shall be made in the water main within eight (8) horizontal feet of crossing any pipelines indicated in A and B above.
- E.Water main shall not be installed within 100 horizontal feet of any sanitary landfill, wastewater disposal pond, or hazardous waste disposal site.
- F. Water main shall not be installed within 25 horizontal feet of any cesspool, septic tank, sewage leach field, seepage pit, underground hazardous material storage tank, or groundwater recharge project site.
- G.Water main, fire hydrants, fire services and meter boxes shall be installed at least 5 feet horizontally from any dry utilities and structures.

The minimum separation distances set forth in this section shall be measured from the nearest outside edge of each pipe barrel.

- 16. All work shall comply with Cal Water specifications for materials, installation, disinfection and dechlorination per latest revision drawing CW-832. 17. Trench backfill and paving shall conform to trench section details and all
- governing agency requirements. 18. Any easements and rights—of—way which may be necessary or reasonably appropriate for the extension will be conveyed or caused to be conveyed by
- 19. (O) = Indicates fire hydrant (Bakersfield)
- Limits of CWS ownership for each hydrant: 1 - 6 Inch Fire Hydrant (See Below)
- 1 6 Inch Outlet Tee PO. DI 1 - 6 Inch Gate Valve PO
- 3 6 Inch Restraint PO Gaskets
- 1 Valve Casing & Cover Assembly +/- 10 Feet of 6 Inch Ductile Iron Pipe
- 1 6x42 Inch Fire Hydrant Bury FLGxMJ 1 - 6x12 Inch Fire Hydrant Extension
- 1 Set 3/4" x 3-1/2" #304 SS Bolts & Nuts, and Gaskets for Hydrant
- 1 Set 3/4" x 3-1/2" SS Bolts & Nuts, and Gaskets for Hydrant Break—off

Polywrap Tubing, PVC Tape, Line Guard and Misc. Coating

- IF FIELD CONDITIONS OR FIRE PROTECTION AGENCY REQUIRE AN ALTERNATIVE INSTALLATION, THE OUTLET TEE AND GATE
- VALVE MAY BE REPLACED WITH: 1 - 6 Inch Outlet Tee POxFLG, DI
- 1 6 Inch Gate Valve FLGxPO 1 - 6 Inch Gasket for Flanged Joint
- $1 \text{Set } 3/4" \times 3-1/2" \#304 \text{ SS Bolts & Nuts,}$ and Gaskets

FIRE HYDRANT:

CLOW 850 2-1/2 & 4 NST KERN COUNTY: CLOW 850 2-1/2 & 4

(The fire chief will make the final choice of fire hydrant head

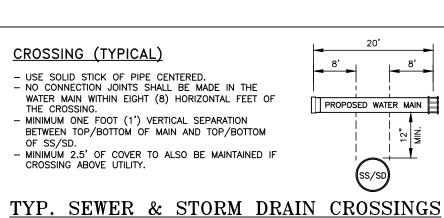
with Cal Water approval.)

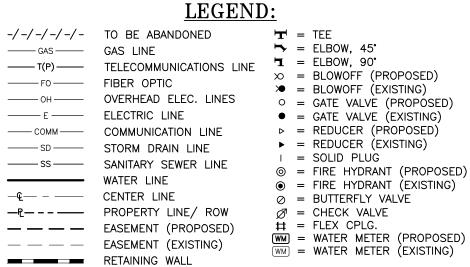
A break-off check valve may be required if specified by district personnel. Use Clow Model LB400 or approved equal.

PROJECT SPECIFIC NOTES

- 20. California Water Service Company will require proof of PUE (recorded tract map) or a 20 ft. water easement for proposed water facilities.
- 21. Services for this project requires individual, privately owned pressure regulators installed on the customer's service line due to high pressure >80psi per California Plumbing Code.

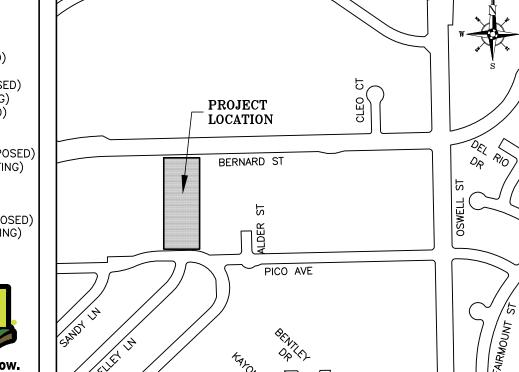
CALIFORNIA WATER SERVICE





APN = ASSESSORS PARCEL NUMBER

- FL = FLOW LINEEOP = EDGE OF PAVEMENT © = ELECTRICAL MANHOLE
- ⑤ □ = STORM DRAIN MANHOLE SSS = SEWER MANHOLE ① = TELECOM MANHOLE



MALL VIEW RD

VICINITY MAP

PIPELINE CROSSING INFORMATION

AT WATER MAIN CROSSINGS IN CONFLICT WITH OTHER FACILITIES: When the water main is in conflict with existing facilities or proposed facilities that require more than a 2 foot adjustment from the nominal 4 feet of cover, a fabricated steel cement mortar lined and cement mortar coated offset will be installed at the crossing per CWS standards.

* DENOTES CL&C OFFSET & PIPE REQUIRED

- FINISHED GRADE ELEV. = 42.64' 6" SANITARY SEWER INVERT ELEV. = 28.44' INSTALL 6" PVC OVER 6" SS w/ 4.0' COVER.
- FINISHED GRADE ELEV. = 43.30' 6" SANITARY SEWER INVERT ELEV. = 29.37INSTALL 6" PVC OVER 6" SS w/ 4.0' COVER.

BILL OF MATERIALS

6" MAIN

1230'-6" PVC C900 PIPE 1355'-LINEGUARD TAPE 1355'-TRACER WIRE #12AWG SOLID COPPER W/45 MILS HMWPE INSULATION 1-6"x6" TEE PO

4-6" GATE VALVE PO 4-VALVE CASING & COVER ASSY 5-6" ELL 90° PO

21-6" RINGS F/PO FITTINGS 50'-POLYWRAP TUBING F/DI FITTINGS

(1) TIE-IN MATERIALS PER DETAIL "A"

SERVICES 26-1" SHORT SERVICE (LOT 12-37)

11-1" LONG SERVICE (LOT 1-11) 1-2" IRRIGATION SERVICE w/ $1\frac{1}{2}$ " METER

TYPICAL MATERIALS PER DWG. CW-555 & 1029 (1") TYPICAL MATERIALS PER DWG. CW-436 & 1020 (2")

PLEASE CONTACT CAL WATER DISTRICT REPRESENTATIVE AND LOCAL CROSS-CONNECTION SPECIALIST TO ENSURE THAT ALL SERVICES ARE IN COMPLIANCE WITH CROSS-CONNECTION CONTROL REGULATIONS SET FORTH IN CPUC RULE 16 AND SWRCB CROSS-CONNECTION CONTROL POLICY HANDBOOK.

FIRE HYDRANTS

2-6" FIRE HYDRANT 2-6"x6" TEE PO, w/ RESTRAINT GASKETS SEE NOTE #19 F/TYPICAL MATERIALS

WHEN ASSEMBLING A PVC C-900 PIPE TO AN IRON FITTING (PUSH-ON OR MECHANICAL JOINT). REMOVE ALL BUT 1/4 INCH OF THE FACTORY MADE BEVEL FROM THE SPIGOT END OF THE PIPE PRIOR TO INSTALLATION.

SUMMARY

1230' - 6" PVC C900 PIPE 26 - 1" SHORT SERVICE 11 - 1" LONG SERVICE 1 - 2" IRRIGATION SERVICE $w/1\frac{1}{2}$ " METER 2 - 6" FIRE HYDRANT

WORK BY CWS

1 - TIE-IN TO EX. 12" MAIN PER DETAIL "A"

0

ENGINEERING

DEPARTMENT

PLAT SHEET

PLAT SHEET NO.:

BK - 28 - 42

1" = 40'

D. LE

J. HUYNH

TECH REVIEW: DATE:

/mg M 3/6/2025

APPROVED BY: DATE:

Erin M. M. Cauley 3/7/2025

No. C68004

3/7/2025

PROJEC

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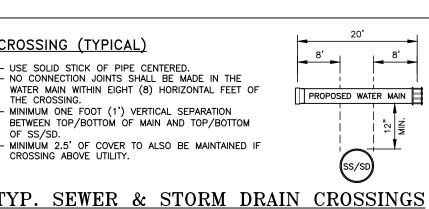
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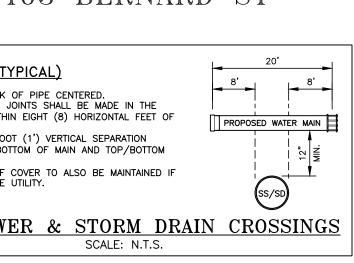
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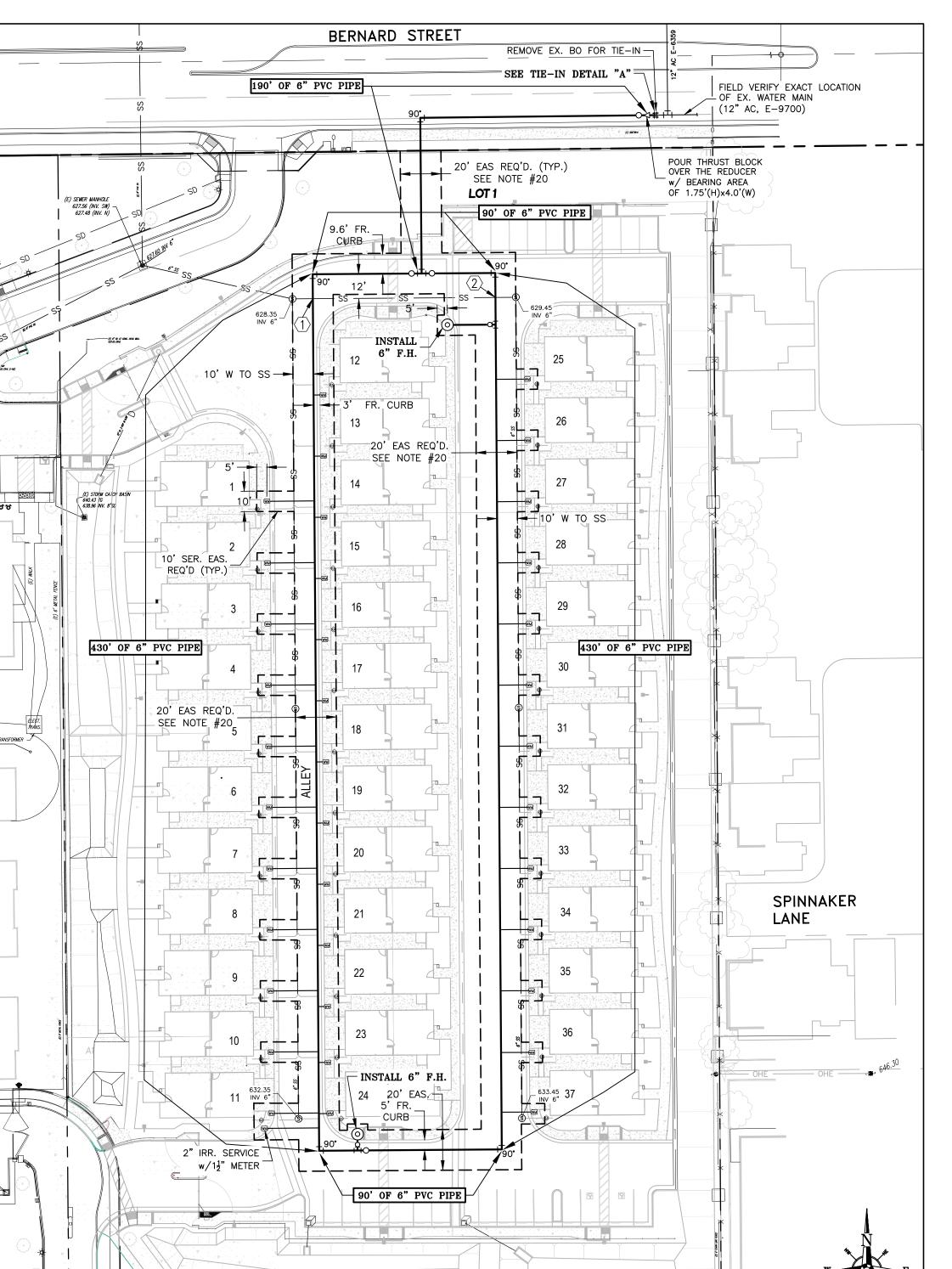
P-135919 DRAWING NO.:

BK-12117 SHT 1 OF 1

NEW BUSINESS PROJECT CITY VIEW HOUSING 3403 BERNARD ST







6" STL E-2407 d

PICO AVENUE