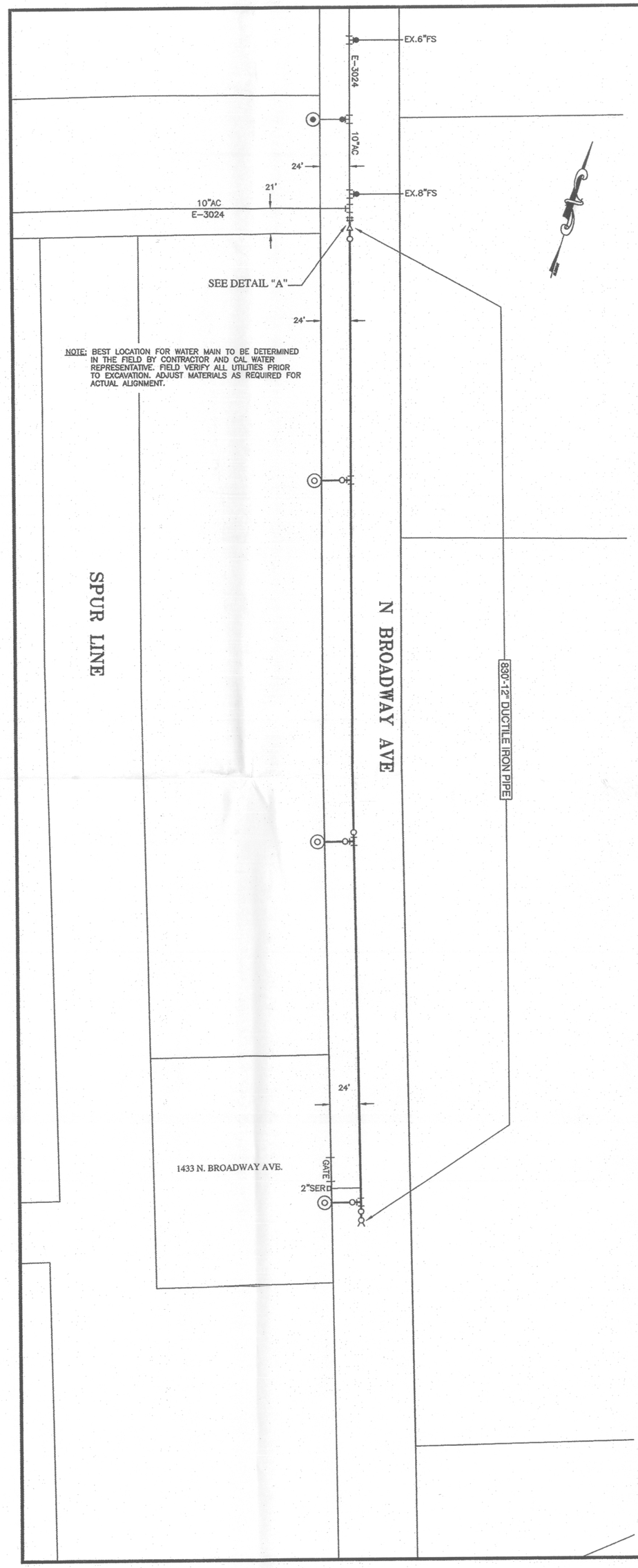
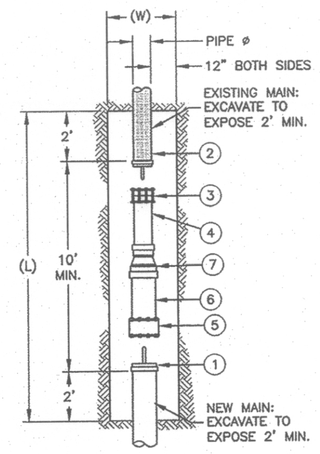
EP-08-966-1



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 RESPONSIBLE TO PROVIDE THIS MATERIAL TO THE COMPANY TO COMPLETE THE TIE-IN.



TIE-IN DETAIL "A"

N.T.S.

1. DEVELOPER'S CONTRACTOR SHALL INSTALL NEW MAIN AND ADJUST FROM NOMINAL LINE AND GRADE TO MATCH EXISTING FACILITIES AT THIS LOCATION. THE DEVELOPER'S CONTRACTOR SHALL INSTALL A TEMPORARY CAP AND BLOWOFF AT THIS LOCATION.

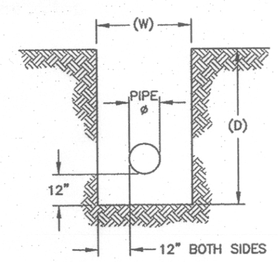
CALIFORNIA WATER SERVICE CO. WILL TIE THE NEW MAIN FROM THIS LOCATION.

2. EXISTING MAIN, 10" AC PIPE

THE DEVELOPER'S CONTRACTOR SHALL PROVIDE CALIFORNIA WATER SERVICE COMPANY WITH THE FOLLOWING MATERIALS FOR THE TIE-IN IT WILL MAKE AT N BROADWAY AVENUE.

3. 1 – 10" ACRB X DI FLEX COUPLING, 10" SLEEVE
4. 5' – 10" DUCTILE IRON PIPE
5. 1 – 12" SOLID SLEEVE MJ
6. 5' – 12" DUCTILE IRON PIPE
7. 1 – 12" X 10" REDUCER PO w/1-12" RING & 1-10" RING

NOTE: IN ADDITION, THE DEVELOPER'S CONTRACTOR SHALL PROVIDE: MISC. MATERIAL REQUIRED TO COMPLETE THE TIE-IN SUCH AS, BUT NOT LIMITED TO: 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, AND PAVEMENT REPLACEMENT.



TRENCH NOTES FOR TIE IN:

TRENCH WIDTH (W) SHALL BE ONE PIPE DIAMETER PLUS 12" ON EACH SIDE OF THE PIPE. (E.G. A 6" OR 8" MAIN REQUIRES A 30" TRENCH).

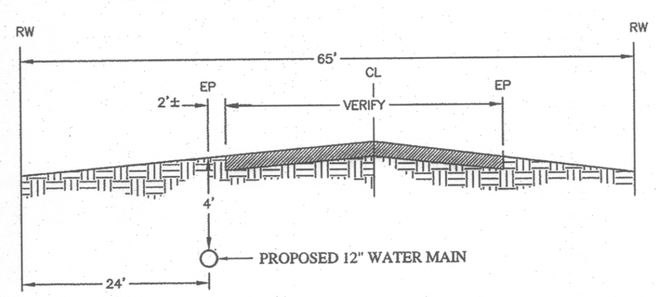
TRENCH LENGTH (L) SHALL BE 14' (MIN). (10' FOR TIE-IN PLUS 2' EXPOSURE OF EXISTING AND NEW MAINS).

TRENCH DEPTH (D) SHALL BE 12" (MIN) BELOW BOTTOM OF MAIN.

DEVELOPER'S CONTRACTOR SHALL PROVIDE TRENCH SHORING PER OSHA STANDARDS.

DEVELOPER'S CONTRACTOR SHALL BE RESPONSIBLE FOR EMBEDMENT BACKFILL, TRENCH BACKFILL, COMPACTION TO REQUIREMENTS, AND FINAL PAVEMENT RESTORATION.

TYPICAL STREET CROSS SECTION



N. BROADWAY AVENUE

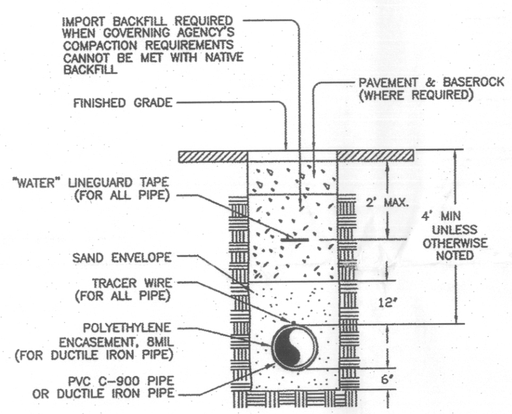
N.T.S.

LEGEND:

- = TEE
- = ELBOW, 45°
- = ELBOW, 90°
- = BLOWOFF (PROPOSED)
- = BLOWOFF (EXISTING)
- = GATE VALVE (PROPOSED)
- = GATE VALVE (EXISTING)
- = REDUCER (PROPOSED)
- = REDUCER (EXISTING)
- = SOLID PLUG
- = PROPOSED WATER MAIN
- = EXISTING WATER MAIN
- = SANITARY SEWER
- = STORM DRAIN
- = FIRE HYDRANT (PROPOSED)
- = FIRE HYDRANT (EXISTING)
- = BUTTERFLY VALVE
- = CHECK VALVE
- = FLEX CPLG.

VICINITY MAP

N.T.S.



NOTE:
1. ALL EXCESS SPOIL IN TRACT IS TO REMAIN TRENCHSIDE AND ALL EXCESS SPOIL OFF TRACT IS TO BE REMOVED.
2. ALL VALVE CASINGS AND COVERS SHALL BE RAISED TO FINISHED GRADE AFTER PERMANENT PAVEMENT HAS BEEN PLACED.

TRENCH CROSS SECTION

NTS

BILL OF MATERIALS

12" MAIN
830'-12" DUCTILE IRON PIPE
1245'-POLYWRAP TUBING F/12" PIPE
11-RLS PVC TAPE
915'-LINEGUARD TAPE
915'-TRACER WIRE #12AWG SOLID COPPER w/45 MILS HMWPE INSULATION
3-12" GATE VALVE PO
3-VALVE CASING & COVER ASSY
1-12" CAP TAPPED 2" MJ
1-2" BLOWOFF ASSY
6-12" RINGS F/PO FITTINGS
(1) TIE-IN MATERIALS PER DETAIL "A"

SERVICE
1-2" SHORT SERVICE w/1½" METER (F/1433 N. BROADWAY AVE.: EXACT LOCATION TO BE DETERMINED AT THE TIME OF INSTALLATION)

FIRE HYDRANTS
3-6" FIRE HYDRANTS
3-12"x6" TEE POxFLG
SEE NOTE #17 F/TYPICAL MATERIALS

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 Co. standards.

NOTE: THESE WATER MAIN INSTALLATION PLANS WERE PREPARED FROM INCOMPLETE IMPROVEMENT PLANS. FIELD VERIFY ALL UTILITIES PRIOR TO EXCAVATION.

SUMMARY

830'-12" DUCTILE IRON PIPE
1-2" SHORT SERVICE
3-6" FIRE HYDRANT TEE

NOTES:

1. Inspection of all materials and installation for pipeline, hydrants and services must be made by California Water Service Company. Telephone: (209) 464-8311 at least 48 hours before starting work on water facilities.
2. 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 the applicant.
3. Contact Underground Service Alert at 800-642-2444 at least 48 hours prior to the commencement of this project.
4. 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.
5. For details of typical thrust block installation, see drawing CW 435-R4.
6. Protect underground flexible couplings, bare steel, MJxMJ sleeves, and all bolts (including stainless steel) as follows:
   1. 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.
   2. 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".
   3. Firmly wrap the entire grease area with one layer, half lapped of a woven glass filament mesh (Res or Bit Wrap, 4" wide).
   4. 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".
   5. Firmly wrap the entire grease area with a second layer, half lapped of the woven glass filament mesh.
   6. 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 method.
   7. Firmly apply 2 layers of polywrap, half lapped over all areas of the coated and wrapped fitting. Backfilling may follow immediately after this wrapping.
7. Water main shall be installed at least 10 ft. horizontally from and one foot higher than storm and sanitary sewers located parallel to the main if feasible. Center a 20 foot length at all storm and sanitary sewer crossings. Minimum separation between sewer and water main shall be one foot unless otherwise indicated.
8. 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.
9. 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 developers's engineer. Any relocations after installation will be at developer's expense.
10. Location of blow-off in new street area will terminate where street improvement ends.
11. Services installed across street area will need import backfill when government agency's compaction requirements cannot be met with native backfill.
12. 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.
13. The list of materials for this project is for CWS Co. estimating and reference purposes only and is not intended as a full take-off of material required.
14. The water supply for this development is from local underground aquifers. Additional wells for replacement and pressure will be required in the future.
15. Developer shall obtain all permits necessary for the installation of the facilities.
16. This water plan design is based on incomplete and unapproved improvement plans. Therefore, sewers, storm drains and street grading conflicts may occur.
17. ⊙ = Indicates fire hydrant (Stockton)

    The following items are not a part of the refundable extension agreement for each fire hydrant. Others to provide materials & labor:
    1 – 6 Inch Outlet Tee POxFLG CI CL
    1 – 6x8-3/4x1/16 Inch Ring Gasket W/CI
    8– 3/4x3-1/2 Inch Machine Bolts W/Hex Nuts, 18-8 Stainless Steel
    1 – 6 Inch Gate Valve FLGxMJ NRS NO RS
    1 – Valve Casing and Cover Assembly
    +/- 7 Feet of 6 Inch PVC Pipe CL150
    1 – 6 Inch Fire Hydrant Bury FLGxMJ
    1 – 6 Inch Fire Hydrant Head

    Polywrap Tubing, PVC Tape, Line Guard and misc. coating mat'l.

    Hydrant assembly W/City of Stockton approval.

    The CWS Co portion of the installation of the fire hydrant shall be limited to the POxFLG tee and FLGxMJ gate valve. The gate valve, gasket & bolts shall be supplied by others.

    The remainder of the fire hydrant materials shall be installed by others with the City of Stockton fire department approval.

    The City of stockton owns the Fire Hydrant assembly.

NOTE: 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.

ENGINEERING

CALIFORNIA WATER SERVICE CO.

DEPARTMENT

REVISIONS:
R1. Remove fire hydrant barricades. Original plans were drawn on 11/30/07.

		DATE:	INIT.
SUBDIVISION MAP	X		
PLAT SHEET	X		
SYSTEM SCHEMATIC			
STATION SCHEMATIC			
ZONE MAP			
VALVE RECORD			

PLAT SHEET NO.: 28-32

SCALE: 1"=60'

DRAWN BY: Peralta

DESIGNED BY: Prasanna

CHECKED BY: DATE:

APPROVED BY: DATE:

TH 3/20/2008

REGISTERED PROFESSIONAL ENGINEER
TING MEI FE
No. C80340
EXP. 06-30-08
CIVIL
STATE OF CALIFORNIA

TITLE: 1433 N. BROADWAY EXTENSION

DISTRICT: STOCKTON

DATE: 3/20/08

PROJECT ID.: 18659

DRAWING NO.: STK-8541R1

SHT 1 OF 1