

LEGEND:

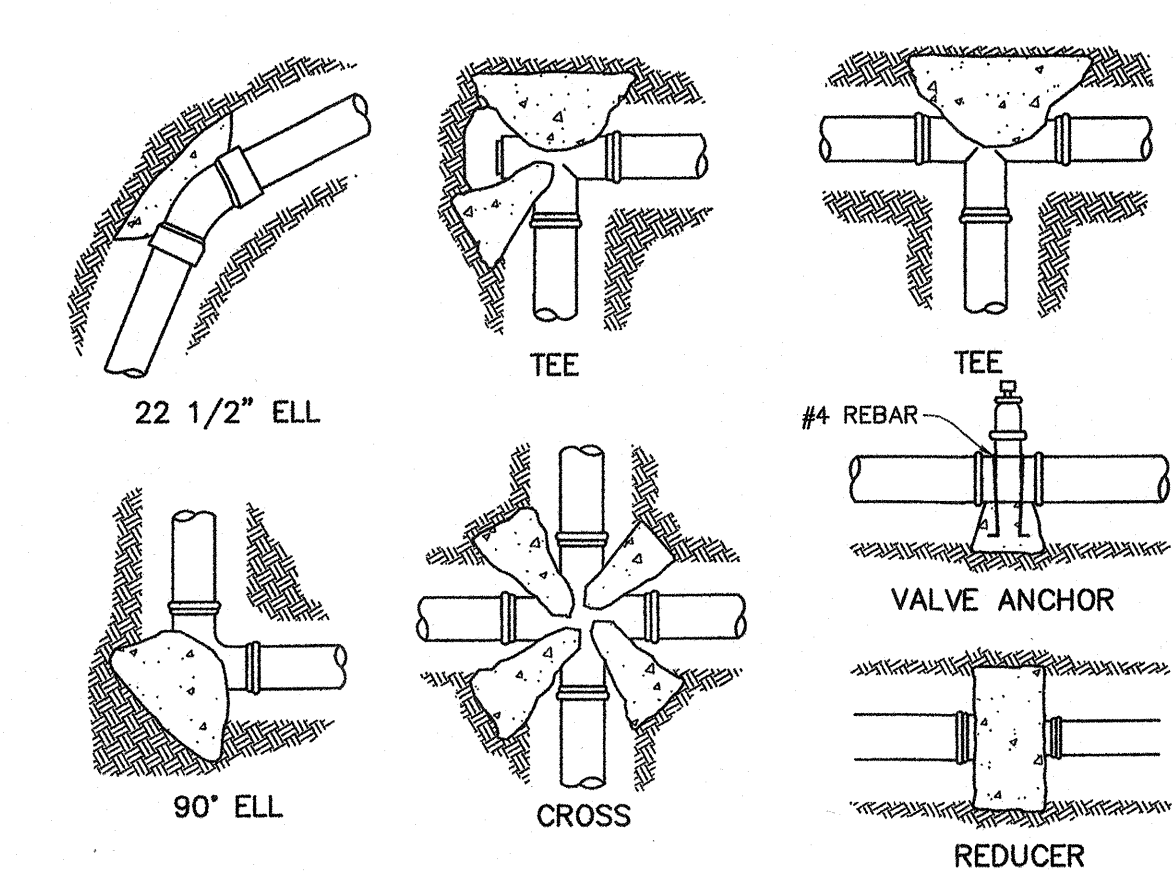
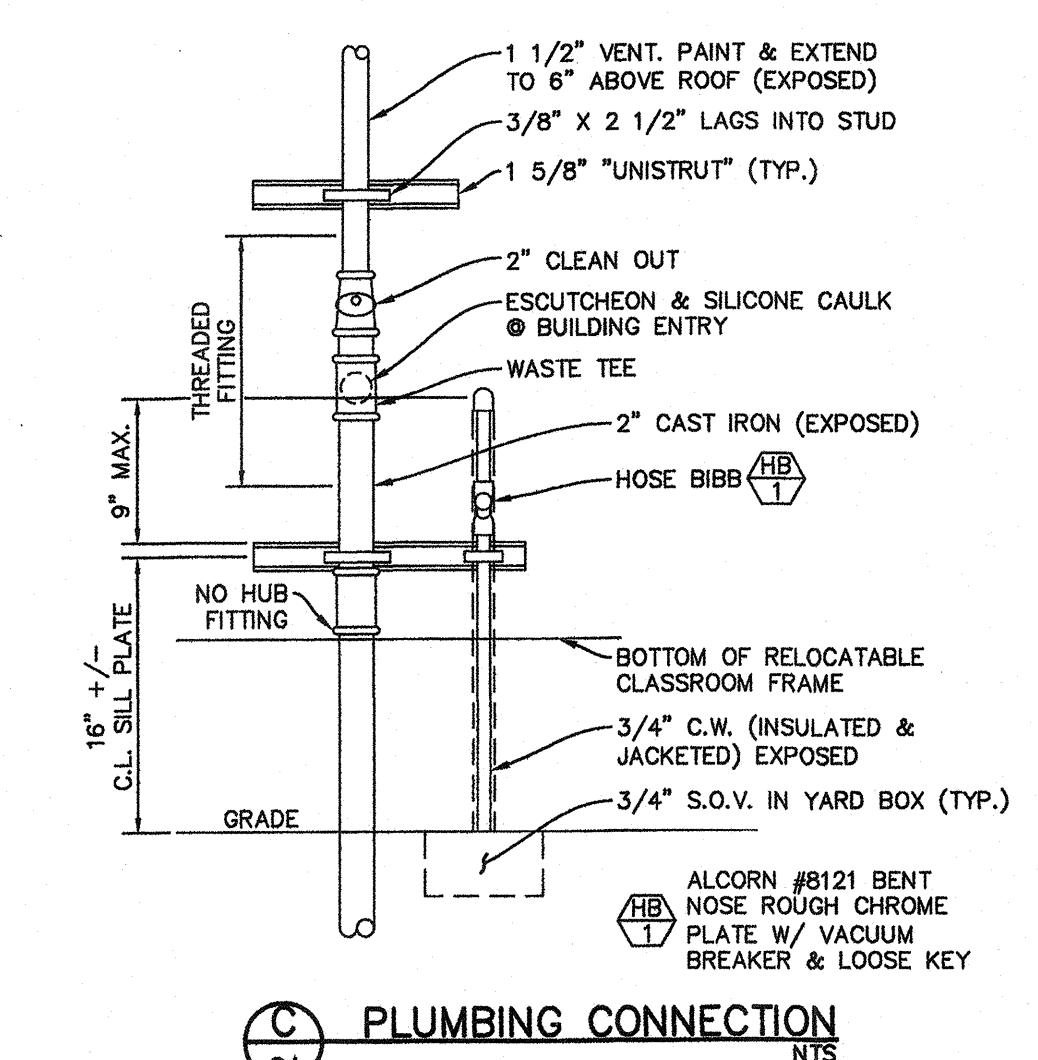
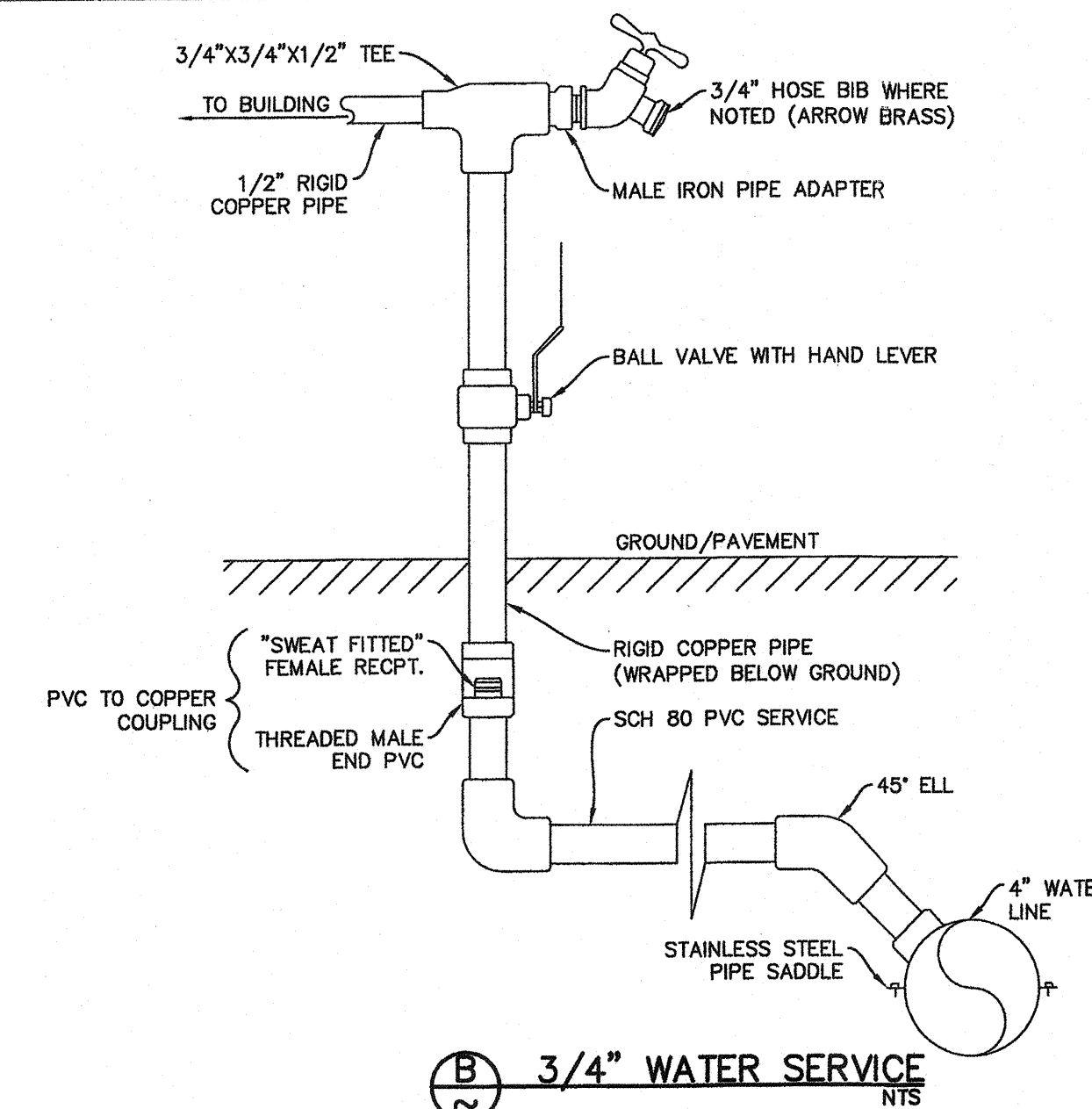
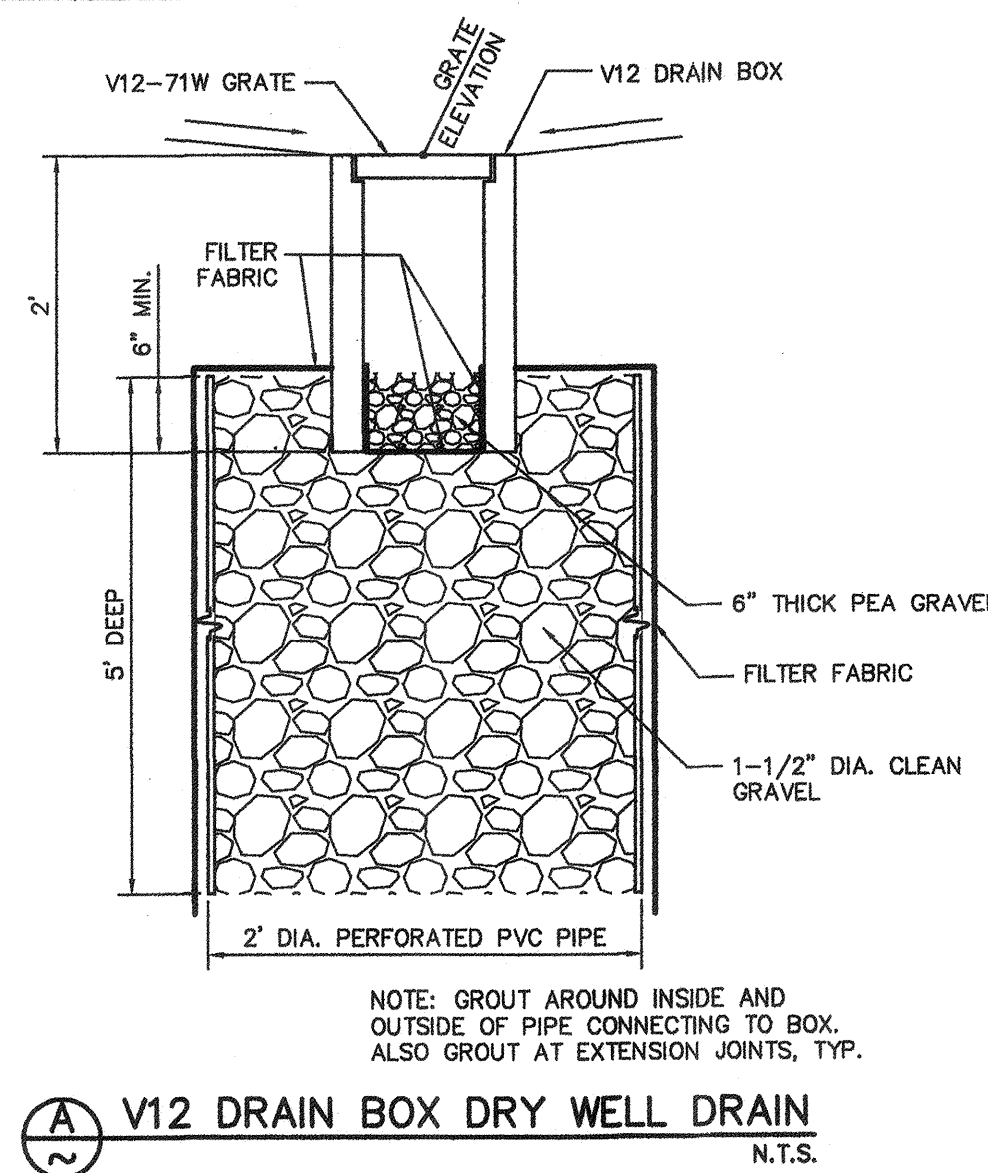
- DESIGN GRADE
- DESIGN SLOPE
- EXISTING GRADE
- EXISTING SLOPE
- MATCH EXISTING ELEVATION
- PROPOSED ACCESSIBLE PATH OF TRAVEL
- PROPOSED SEWER LINE
- PROPOSED WATER LINE
- PROPOSED FIRE WATER LINE
- EXISTING SEWER LINE
- EXISTING WATER LINE
- EXISTING GAS LINE
- EXISTING ELECTRICAL LINE
- EXISTING TELEPHONE LINE
- EXISTING IRRIGATION LINE
- EXISTING FENCE
- EXISTING WROUGHT IRON FENCE
- EXISTING ELECTRICAL LID
- EXISTING TELEPHONE BOX
- EXISTING IRRIGATION BOX
- EXISTING SEWER LID
- EXISTING CLEANOUT LID
- EXISTING WATER LID
- EXISTING GAS LID
- EXISTING LIGHT STANDARD
- EXISTING SIGN
- EXISTING POWER POLE

FIRE WATER CONSTRUCTION NOTES

1. CONTRACTOR TO COORDINATE INSTALLATION OF 6" FIRE SERVICE WITH CAL WATER.
2. TIE INTO 6" FIRE SERVICE TO BE INSTALLED BY CAL WATER AND INSTALL DUCTILE IRON 6x8 REDUCER.
3. INSTALL 8" FEBCO LF856 DOUBLE CHECK DETECTOR ASSEMBLY WITH O.S.&Y. OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S SPECIFICATIONS. ALL MATERIALS FROM CAL WATER MAIN TO BACK BACKFLOW PREVENTER SHALL BE DUCTILE IRON.
4. INSTALL 8" PVC (C900) FIRE WATER LINE WITH THRUST BLOCKS PER DETAIL (D) AND TRENCHING PER DETAIL (B/C4) (DISTANCES SHOWN).
5. INSTALL FIRE HYDRANT ASSEMBLY PER DETAIL ON SHEET C7 WITH GUARD POSTS PAINTED YELLOW PER KERN COUNTY PLATE No. W-6 (SEE DETAIL ON SHEET C7).

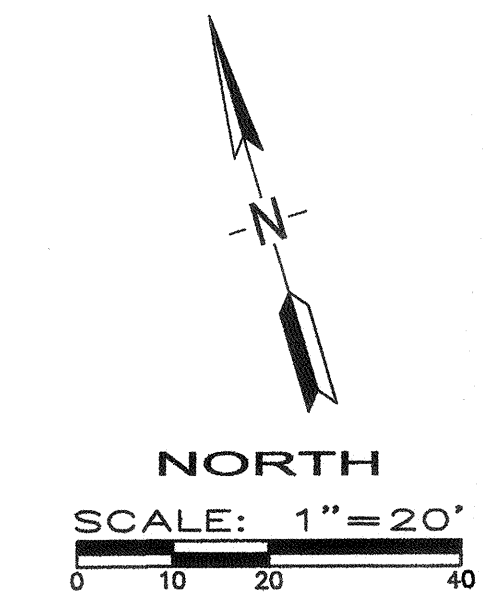
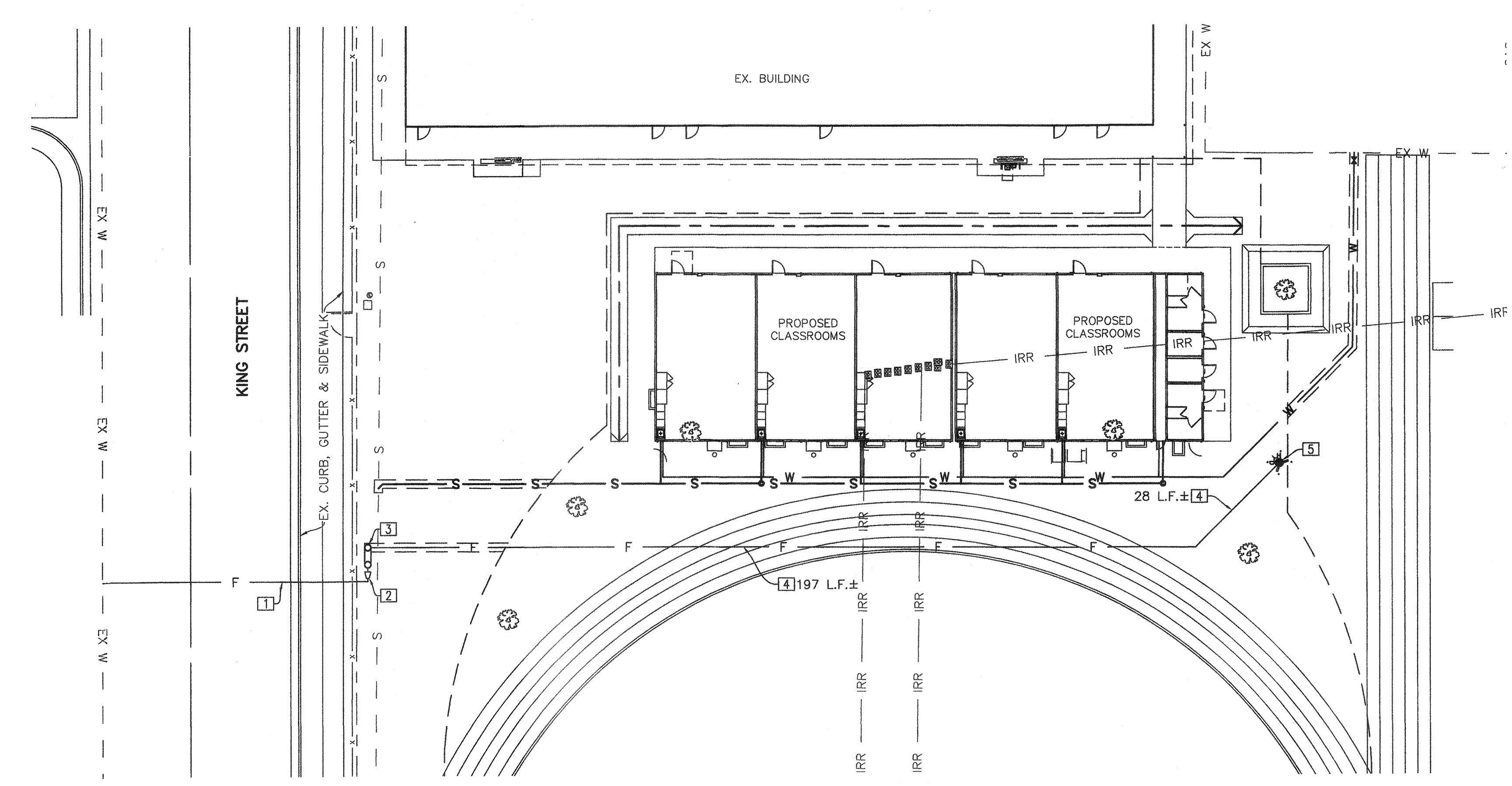
NOTES:

1. CONTRACTOR SHALL INSTALL ALL ELBOWS, TEES & APPURTENANCES AS NECESSARY TO FURNISH A COMPLETE PROJECT.
2. CONTRACTOR SHALL PROTECT ALL EXISTING IMPROVEMENTS, UNDERGROUND UTILITIES, LANDSCAPING, IRRIGATION, ETC. TO REMAIN IN PLACE AND SHALL REPAIR ANY DAMAGES DURING DEMOLITION AND/OR CONSTRUCTION ACTIVITIES.
3. EXISTING UNDERGROUND UTILITIES HAVE BEEN SHOWN BASED ON AVAILABLE RECORDS PROVIDED BY THE OWNER. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES. CONTRACTOR SHALL COORDINATE REMOVAL OR RELOCATION OF CONFLICTING UTILITIES WITH OWNER.



| THRUST BLOCK SCHEDULE | | | | | | |
|-----------------------------|-------------|---------|---------|-------------|---------|-------|
| BEARING AREA IN SQUARE FEET | | | | | | |
| PIPE SIZE | TEE OR PLUG | 90° ELL | 45° ELL | 22 1/2" ELL | CROSS | VALVE |
| 4" | 2 | 2 | 2 | 1 | | |
| 6" | 3 | 4 | 2 | 2 | 1.5 EA. | 3.0 |
| 8" | 5 | 7 | 4 | 2 | 3.0 EA. | 5.5 |
| 10" | 8 | 11 | 6 | 3 | 4.5 EA. | 9.0 |
| 12" | 11 | 16 | 8 | 4 | 6.5 EA. | 13.0 |
| 16" | 16 | 23 | 13 | 7 | 8.0 EA. | 16.0 |

- NOTES:**
1. ALL VALVES, FITTINGS AND DIRECTIONAL CHANGES ARE TO BE HELD IN PLACE BY CONCRETE THRUST BLOCKS.
 2. BEARING AREAS INDICATED ARE BASED ON ALLOWABLE SOIL PRESSURE OF 1500 PSF.
 3. CONCRETE IS NOT TO BEAR AGAINST PIPE. THRUST BLOCK TO ONLY BE IN CONTACT WITH FITTING.
 4. THRUST BLOCKS SHALL BE POURED AGAINST UNDISTURBED SOIL.
 5. JOINT SHALL BE KEPT CLEAR OF CONCRETE.
 6. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS.



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SEAL
LICENSED ARCHITECT
RICHARD W. PORTER
No. 1718079
REN. 10/17
STATE OF CALIFORNIA

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| REVISIONS | | | |
|-----------|------|--------|-------------|
| NO. | DATE | APPRD. | DESCRIPTION |
| | | | |

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REGISTERED PROFESSIONAL ENGINEER
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RCE 33448
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AGENCY INFORMATION:
AGENCY TRACKING NO 63321-241
FILE NO. 15-6
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
03-118380
AC/PLS/SS/CL
DATE 03/25/2017

BAKERSFIELD CITY SCHOOL DISTRICT

BESSIE OWENS INTERMEDIATE -
815 EUREKA ST. BAKERSFIELD CA, 93305

| | |
|-------------------------|------------|
| OPSC or OSHPD PROJ. NO: | |
| PROJECT NO: | 16241.000 |
| DRAWN BY: | Author |
| CHKD BY: | Checker |
| ISSUE DATE: | 08/29/2017 |
| SHEET TITLE | |

**CIVIL IMPROVEMENTS
FIRE WATER PLAN
AND DETAILS**

SHEET NUMBER

C5

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J:\16241_BC_BessieOwens\9 Drawings\Arch\curren\11V-16241-Site_Bessie-2017-01-04-12016.rvt
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CONSTRUCTION DOCUMENTS