

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400A-02-91	1994	14	46

DEPARTMENT OF WATER SUPPLY NOTES

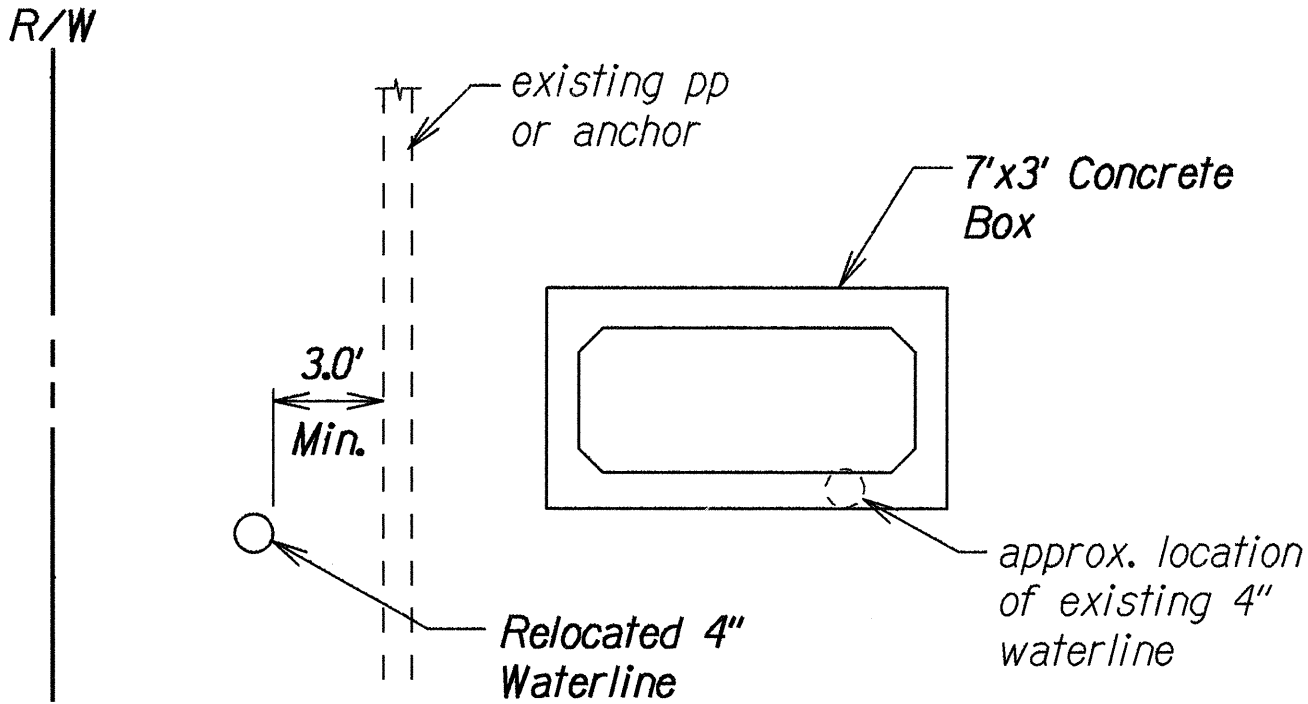
1. The Contractor shall notify the Department of Water Supply (DWS), in writing, one (1) week prior to commencement of work.
2. All materials used and method of construction of water system facilities shall be in accordance with the latest revisions of DWS Standards. Contractor shall obtain the latest revisions of DWS Standards Details before commencing construction.
3. The exact depth and location of existing waterlines, service laterals and other utilities are not known. It shall be the Contractor's responsibility to locate same prior to trenching for the new waterline. The cost of lowering, relocating or adjusting existing waterlines, service laterals and other utilities shall be considered incidental to the cost of the new waterline, unless noted otherwise, and will not be paid for separately.
4. Concrete for reaction blocks and anchor blocks shall be DWS Class 2500.
5. The maximum distance between valve nut and top of manhole cover shall be three (3) feet.
6. The Contractor shall submit a materials list to DWS for approval prior to construction.
7. Connection to DWS System:

A. The Contractor shall verify the exact location, depth, type and condition of the existing line before ordering materials for the hook-up. However, he shall check with the Department of Water Supply before excavating for verification purposes. He shall be responsible for furnishing the correct fittings, adapters, nipples, and other materials, as required, for the hook-up.

B. Whenever feasible, mechanical joint fittings shall be used.

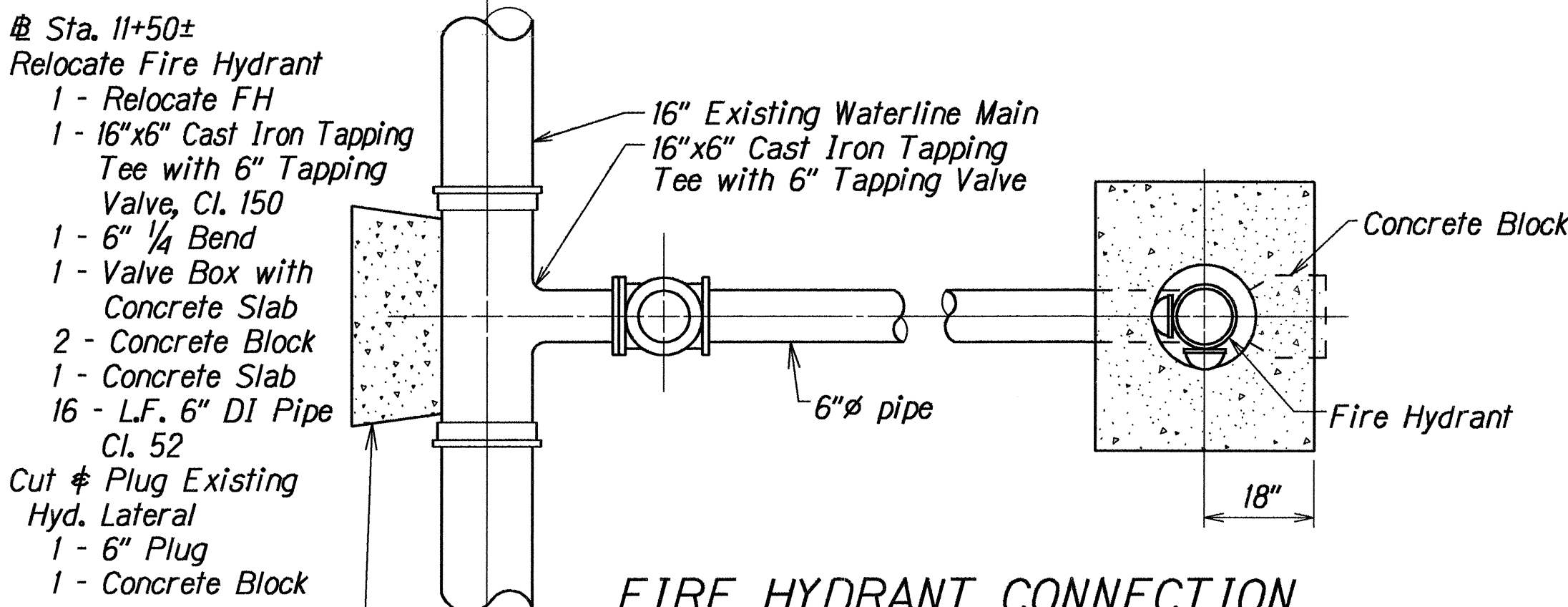
C. Authorized DWS personnel will make the final connection to the existing line. The Contractor shall be responsible for all costs incurred by DWS for said work, including the cost of pressure testing.

D. The Contractor shall be responsible for furnishing all material, equipment and labor for chlorination, trench excavation, backfilling, paving, and other work necessary to complete the hook-up, as directed by and to the satisfaction of the DWS.
8. The Developer shall submit a cost list along with an affidavit for the water system prior to acceptance.
9. The Contractor shall submit two sets of Record Drawings via a consultant prior to acceptance of the water system.
10. Minimum cover over water main, 6" diameter or larger, shall be 3'-0". Minimum cover for 4" diameter shall be 2'-6". Minimum cover for diameters less than 4" shall be 1'-6".
11. The Contractor shall paint and number the Fire Hydrant. Numbering to be furnished by DWS.
12. All buried metals shall be wrapped with Poly-Wrap. For Ductile Iron Pipe installation, Poly-Wrap shall be required.
13. All nuts and bolts shall be painted with asphaltic paint.
14. Lubricate hydrant nozzle threads with non-toxic grease.
15. The Contractor shall notify DWS, in writing, one week prior to commencement of adjustment work on the 4" waterline. After notification, the contractor shall coordinate 4" waterline work with DWS.

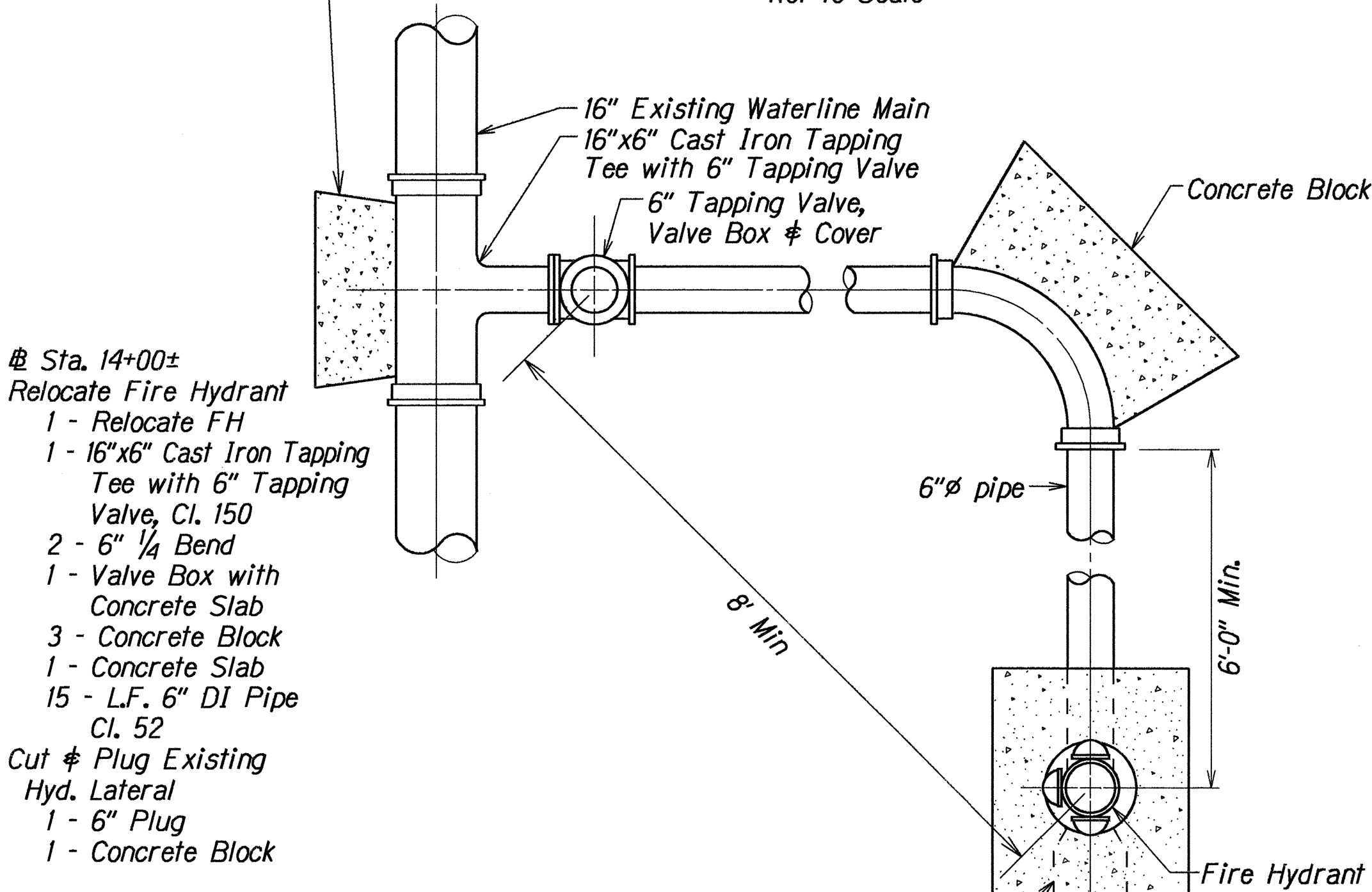


4" WATERLINE ADJUSTMENT  
# STA. 9+40± LT. TO # STA. 11+10± LT.  
Not to Scale

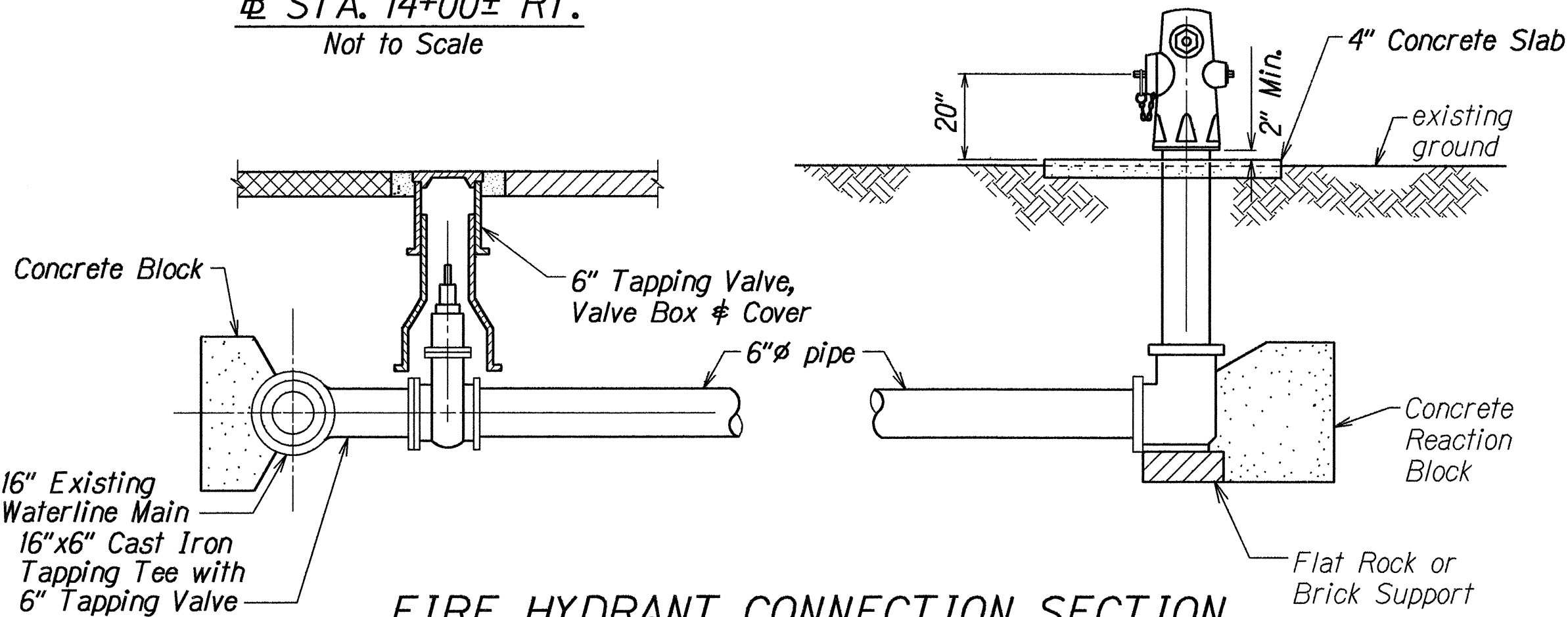
- 170 - L.F. 4" D.I. Pipe, Cl. 52
- 8 - 1/8 4" Bend
- 8 - Concrete Block
- 2 - 12" Long Sleeve



FIRE HYDRANT CONNECTION  
STRAIGHT RUN PLAN  
# STA. 11+50± RT.  
Not to Scale



FIRE HYDRANT CONNECTION  
WITH ELBOW PLAN  
# STA. 14+00± RT.  
Not to Scale



FIRE HYDRANT CONNECTION SECTION  
# STA. 9+14± Rt., # STA. 11+50± RT. & # STA. 14+00± RT.  
Not to Scale

APPROVED:

*[Signature]*

DIRECTOR, DEPARTMENT OF WATER SUPPLY  
COUNTY OF MAUI

(Approval limited to water improvements which will be dedicated to the Department of Water Supply.)

DATE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

WATER DETAILS & NOTES

KAHULUI BEACH ROAD IMPROVEMENTS  
Waiehu Beach Road to Kaahumanu Avenue  
Project No. 3400A-02-91

Scale: As Shown      Date: Jan., 1994

SHEET No. 1 OF 1 SHEETS