

1. ALL CONCRETE SHALL BE 2500 PSI, CALIFORNIA

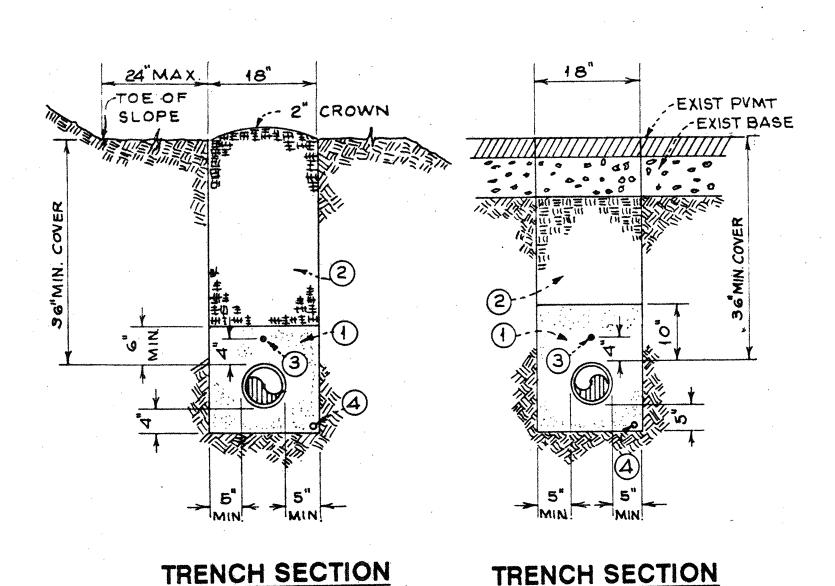
LETTERS ON DETAILS REFER TO MINIMUM REQUIRED

UNDISTURBED BEARING AREA. SEE TABLE ABOVE.

6. MINIMUM BEARING AREA IS 1 SQ FT. FOR 3" AND

3. ALL BLOCKS ARE TO BE KEPT CLEAR OF LUGS.

UNSUPPORTED SURFACES TO BE FORMED.



#### WITHIN EASEMENTS BUT NOT WITHIN IMPROVED WITHIN ROADWAY OR SHOULDER ROADWAY OR SHOULDER (N.T.S.) (N.T.S.)

## FOR C900 PVC PIPING ONLY

### (PHASE L 6"18") NOIES:

NOTES:

STATE STANDARD .

SMALLER MAINS.

2. DETAIL "A" IS TYPICAL FOR ALL.

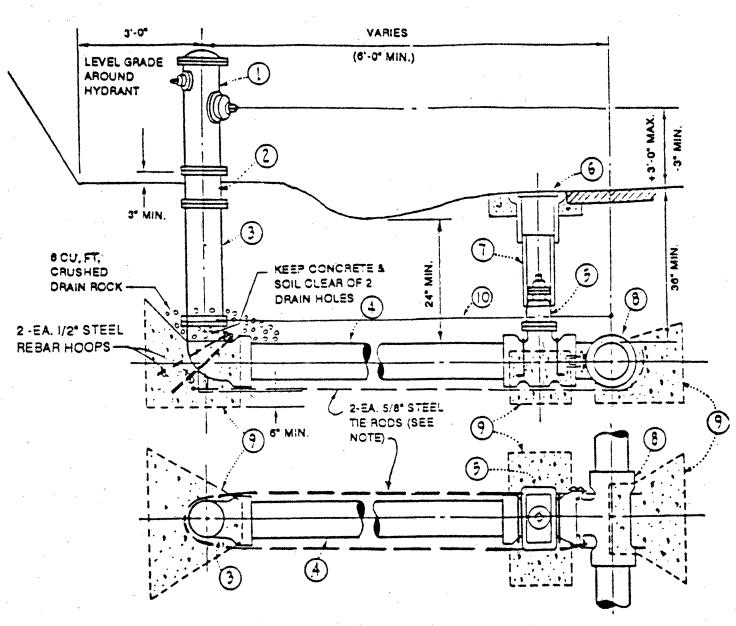
- 1. SELECT NATIVE SOIL 3/4" MAX.
- 2. NATIVE OR IMPORTED SOIL
- COMPACTED TO 90%. #10 COPPER CONDUCTOR. CONNECT TO GATE VALVES AND HYDRANTS. CENTER CONDUCTOR OVER MAIN. (PVC PIPE ONLY- NOT REQUIRED FOR D.I. PIPE)
- 4. LOCATION OF CONTROL CABLE IN TRÉNCH.

24 X 36 PRINTED ON MO. 1000H CLEARPRINT .

- \* ALL DIMENSIONS ARE "MINIMUM"
- SAND ENVELOPE AND BEDDING
- COMPACTED TO 90%.
- 2. SELECT NATIVE OR IMPORTED SOIL,

\* ALL DIMENSIONS ARE "MINIMUM"

- 3. #10 COPPER CONDUCTOR (PVC PIPE ONLY). CONNECT TO GATE VALVES AND HYDRANTS. CENTER CONDUCTOR OVER MAIN. (NOT REQUIRED FOR D.I. PIPE)
- 4. LOCATION OF CONTROL CABLE IN TRENCH.
- 3" MAX. COMPACT TO 90%, 6" LIFTS.
  - 1 3. 1" x 3/4" FORD BA 43-342W PACK JOINT ANGLE BALL METER
    - 4. CHRISTY CONCRETE SLAB BASE FOR ITEM 5 BOX. 5. CHRISTY B9 CONCRETE METER BOX WITH G15 LID.
    - ↑ 7. 5/8" x 3/4" ALL BRONZE "PRECISION" METER, REGISTER IN 1000 GALLONS.
    - 8. 3/4" FORD HS31-323 METER NUT x FIP CHECK VALVE.



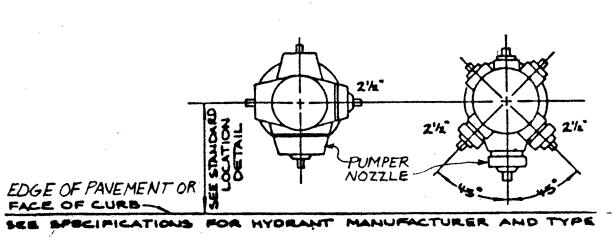
## FIRE HYDRANT ASSEMBLY ( N.T.S.)

## MATERIALS:

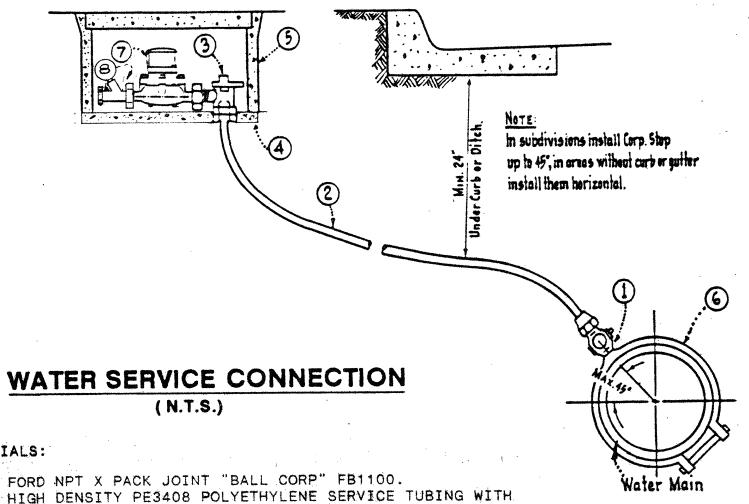
- 1. SIX INCH FIRE HYDRANT WITH TWO 2-1/2" & ONE 4" AMERICAN (N.S.) NATIONAL STD. HOSE THREAD NOZZLES. CLÒW 960 RANGER W/BREAKOFF CHECK VALVE.
- 2. SIX INCH BREAKOFF EXTENSION (24" MAXIMUM LENGTH) SIX INCH M.J. BURY.
- 4. SIX INCH PVC C900 CLASS 150 PIPE.
- 5. SIX INCH GATE VALVE FLANGED BY M.J. PER GATE VALVE DETAIL.
- 6. VALVE BOX PER GATE VALVE DETAIL. 7. VALVE BOX EXTENSION PER GATE VALVE DETAIL.
- 8. CAST IRON TEE "PUSH-ON" OR M.J. BY FLANGE.
- 9. CONCRETE ANCHOR BLOCK PER STANDARD ANCHOR BLOCK DETAIL.

## NOTES:

- 1. HYDRANT RUN (LATERAL) WILL BE PAID FOR AT PRICE BID FOR SIMILAR PIPE. OMIT FROM BID ON HYDRANT ASSEMBLY.
- 2. TIE RODS REQUIRED IF HYDRANT MUST BE PLACED IN FILL.
- 3. COAT METAL PER NOTE 2 DETAIL 3.



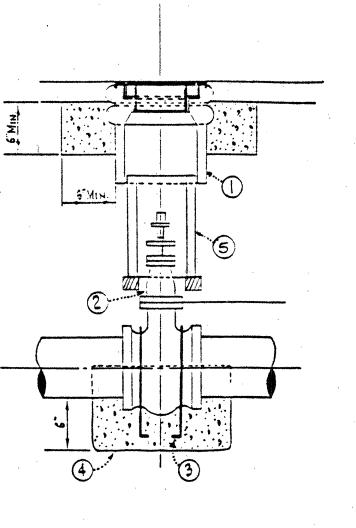
## STANDARD HYDRANT POSITION ON BURY ( N.T.S.)



## MATERIALS:

1. 1" FORD NPT X PACK JOINT "BALL CORP" FB1100. 1. 1" HIGH DENSITY PE3408 POLYETHYLENE SERVICE TUBING WITH SOLID BRASS OR STAINLESS INSERT STIFFENER RINGS EACH END.

- VALVE WITH LOCKING WINGS.
- 6. FORD 590 BRASS SADDLE FOR C900 PVC MAIN, NPT



# TYPICAL GATE VALVE INSTALLATION (N.T.S.)

## MATERIALS:

- 1. CHRISTY G5 TRAFFIC BOX.
- 2. M & H AWWA C509 NRS RISILIENT SEATED GATE VALVE W/2-"O" RINGS & 2" SQ. OPERATING NUT.
- 3. 1/2" DIAMETER REBAR ANCHORS. (2 REQ').) 4. CONCRETE THRUST BLOCK (REFER TO THRUST BLOCK TABLE OF
- BEARING AREAS). 5. 8" DIAMETER PIPE SLEEVE, LENGTH AS REQUIRED.

- 1. CONCRETE ANCHOR NOT REQUIRED FOR VALVES 4" AND LESS ON STRAIGHT PIPE RUNS.
- 2. ALL FERROUS METAL FITTINGS, TIE RODS, BOLTS, NUTS, ETC. IN CONTACT WITH EARTH SHALL BE COATED WITH COAL TAR
- 3. VALVE BOX MUST BE CENTERED ON THE AXIS OF THE VALVE.

L"CRUSHED ROCK

TYPE 2-PRESSURE REDUCING STATION

1 1/2 INCH UNION

PLATE COVER

NOTED. ALL FLANGES ARE 125# CAST IRON.

/2\ NOTE: ACTUAL POSITION OF COMPONENTS MAY DIFFER FROM THE

1 1/2 INCH GALV. PIPE, T & C

1 1/2 INCH HEAVY DUTY GATE VALVE

AND HOSE BIB ASSEMBLY

4 INCH BY 6 INCH FLANGED REDUCER

1 1/2 x 3/4 INCH TEE, SHUT-OFF VALVE

4 INCH CLAYTON MODEL 90G-01 PRESSURE

4 INCH SCH 40 STEEL FXPE 12" LONG SPOOL

4 INCH DRESSER STYLE 127 FLANGE ADAPTER

PILOT TUBING SUPPLY STRAINER

4 INCH SCH 40 STEEL FXF 24" LONG SPOOL

W/ 1 1/2 INCH HALF COUPLING

CHRISTY R37 PIT W/ SPRING LOADED STEEL

SOIL TO SE PAINTED WITH 2 COATS COAL TAR. ALL STEEL PIPE IS FUSION EPOXY LINED AND COATED UNLESS OTHERWISE

NOTE: ALL SOLTS, NUTS, AND OTHER METAL IN CONTACT WITH

4 INCH FLANGED GATE VALVE PER STD. DETAIL

4 INCH C.I. WYE STRAINER (HORIZONTAL POS.)

6 INCH FLANGE BY MECHANICAL JOINT ADAPTOR

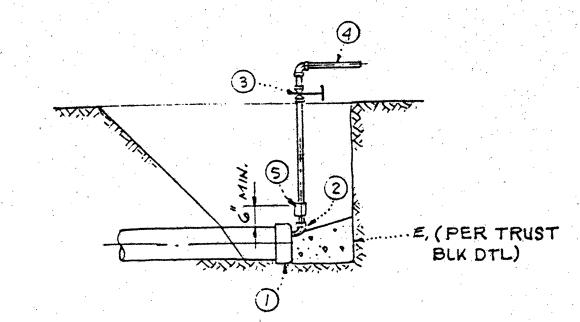
1 1/4 INCH HEAVY DUTY BRONZE GATE VALVE

1 1/2" X 3/4" X 1 1/2" GALV. TEE (PLUGGED)

1 1/2 INCH WATTS U135 PRESSURE REDUCING VALVE

WITH HAND WHEEL (NO KICK BLOCK OR BOX)

REDUCING VALVE (SET PER PLAN) WITH



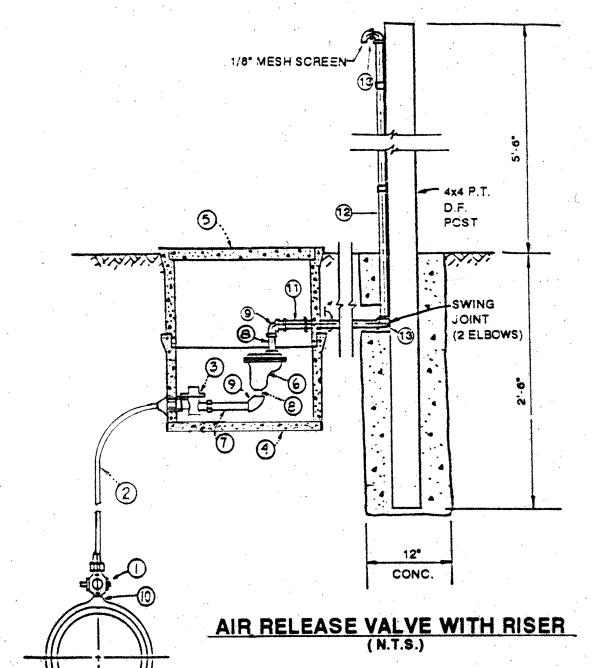
# PIPE END & TEMPORARY BLOW-OFF

## MATERIALS:

QUANTITY

2 ASSY

- 1. PUSH-ON OR M.J. END CAP TAPPED 2".
- 2. 2" GALV. STREET ELBOW.
- 3. 2" BRONZE GATE VALVE. 4. 2" GALV. T & C PIPE.
- REMOVE RISER AND PLUG COUPLING AFTER COMPLETION OF MAIN DISINFECTION.



ONE-INCH FORD "BALLCORP", NPT BY PACK JOINT CORPORATION STOP.

- ONE-INCH HIGH DENSITY POLYETHELYNE SERVICE TUBING, CONTINUOUS UPWARD SLOPE TO VALVE.
- ONE-INCH FORD STRAIGHT BALL METER VALVE #B43-342W. CHRISTY CONCRETE SLAB BASE FOR ITEM 5 BOX. CHRISTY B24 CONCRETE METER BOX WITH
- EXTENSION AND D35 REINFORCED CONCRETE LID (USE 61D35 COVER IN TRAFFIC AREAS). 3/4-INCH CRISPEN AIR RELEASE OR CHISPIN 1 INCH UNIVERSAL AIR VALVE (SEE PLAN).
- 1-INCH SCH. 80 PVC THREADED NIPPLE (LENGTH A/R), UPWARD SLOPE TO AIR VALVE. 3/4-INCH NIPPLE (2).
- 1-INCH BY 3/4-INCH 90 DEGREE ELBOW (2). FORD \$90 BRASS SADDLE, WITH 1" NPT OUTLET FOR C900 PVC. DRILL AND TAP DUCTILE IRON PIPE MAIN.
- 11. 1-INCH FLEX COUPLING. 12. ONE-INCH GALV. STEEL PIPE, SECURE TO POST
- 13. ONE-INCH GALV. 90 DEGREE ELBOW (4).



DRAWN: JOB: SHEET:

OF 12 SHEETS

DATE: 11/05/91

SCALE: AS SHOWN

WATER

EMEDIA

C

WELL

OLD

REVISIONS BY

12/10/91 ISSUER FOR REVIEW

ISSUED FOR BIDS

A PHASE I + II

AS-BUILT

8/30/93

TRIBUTION

DIS'