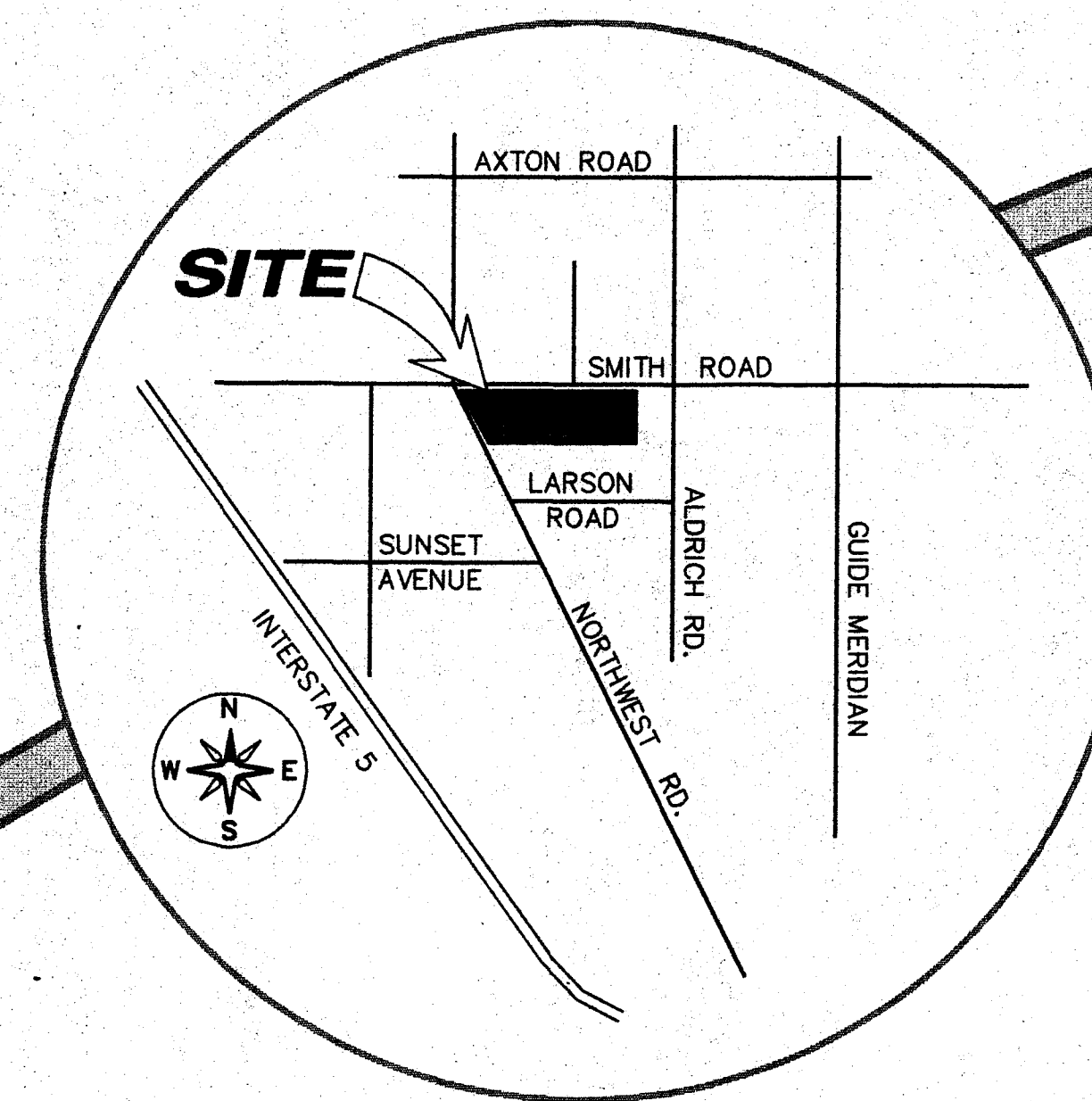
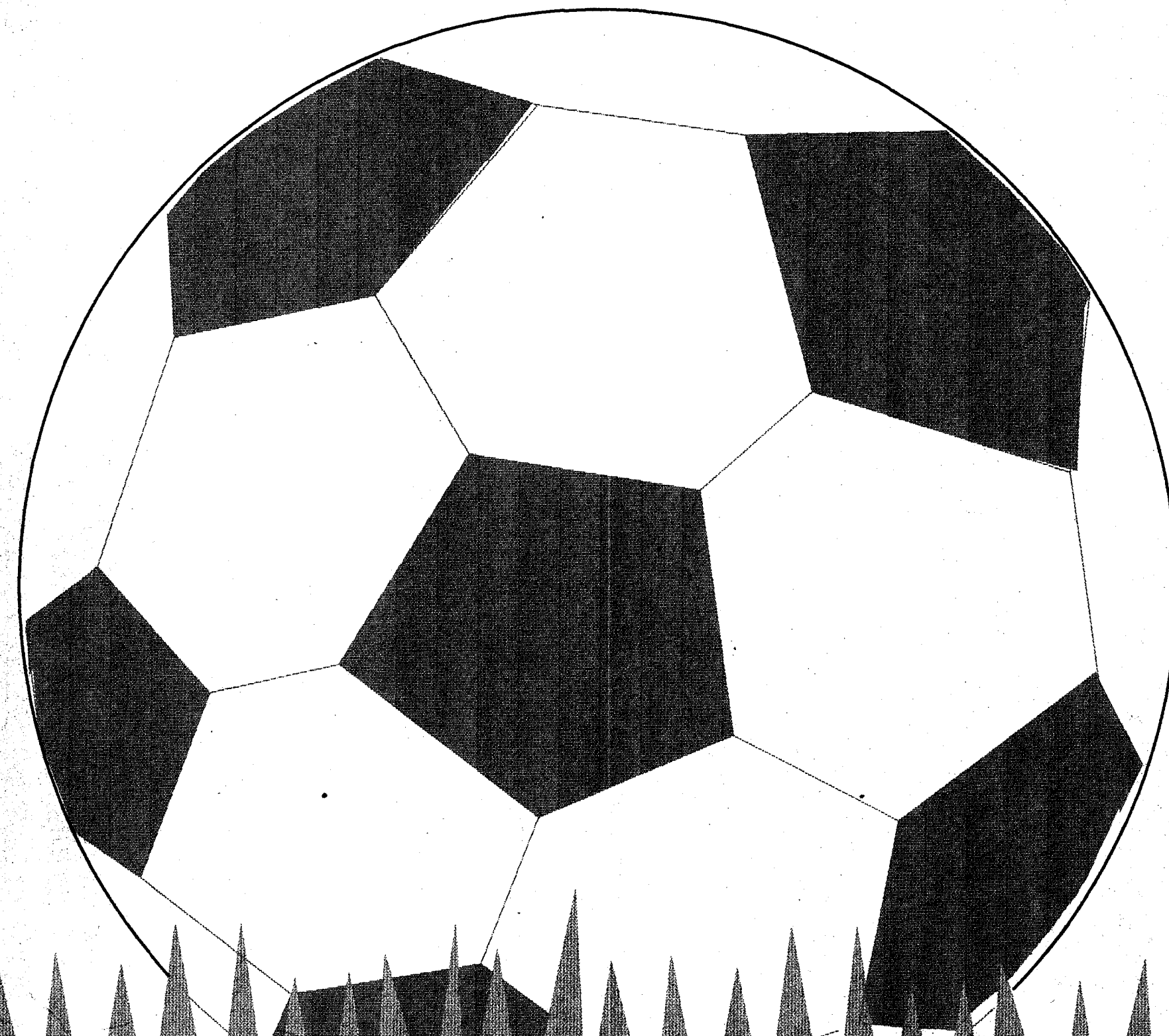


NORTHWEST AVENUE

COMBINED SPORTS FIELD FACILITY



1. **COVER**
2. **WATER DISTRIBUTION PLAN & PROFILE**
3. **CONSTRUCTION DETAILS**

CONTROL DATUM

HORIZONTAL: WASHINGTON STATE LAMBERT GRID-NORTH ZONE.
POSITION: CLOSED MONUMENT AT THE CORNER. Y= 4,746.92
OF SECTION 34, T36N, R32E, W4
MERIDIAN: CASSID MON. AT THE CORNER SEC. 34
AND BRASS PLUG IN 1/4 SEC. 34
BEARING = N 89° 32' 41" W

VERTICAL: BRASS PLUG @ N 1/4 CORNER SEC. 34, T36N, R32E W4
ASSUMED ELEVATION 66.31

NORTHWEST AVENUE COMBINED SPORTS FIELD FACILITY

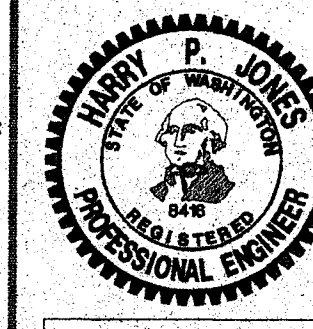
W.C. SOCCER COMMISSION / BOYS & GIRLS CLUB

NORTHWEST AVENUE COMBINED SPORTS FIELD FACILITY WATER DISTRIBUTION SYSTEM COVER SHEET

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THIS DOCUMENT, CONSISTING OF
PLANS, DESIGNS, AND SPECIFICATIONS, WAS PREPARED UNDER
MY PERSONAL SUPERVISION AND MEETS CITY OF BELLINGHAM
AND WHATCOM COUNTY CODES AND STANDARDS AND
FURTHER THAT SAID PLANS MEET THE GENERALLY ACCEPTED
STANDARDS OF PRACTICE WITHIN THE STATE OF
WASHINGTON.

Harry P. Jones DATE *Dec 21, 1995*
HARRY P. JONES, PE



JONES ENGINEERS
INCORPORATED, P.S.

CONSULTING ENGINEERS

851 COHO WAY, SUITE 307
BELLINGHAM, WA 98225 (360) 733-8888

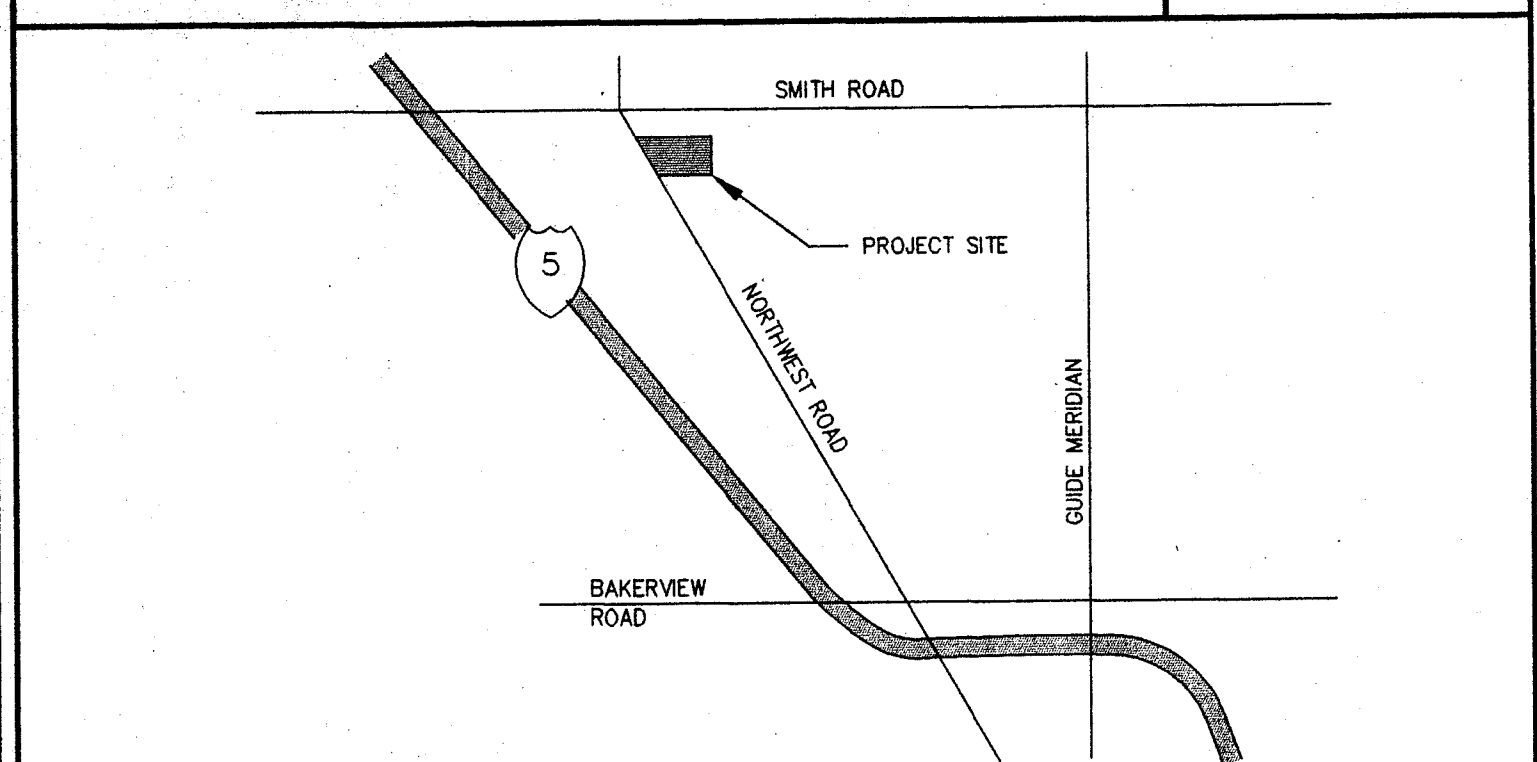
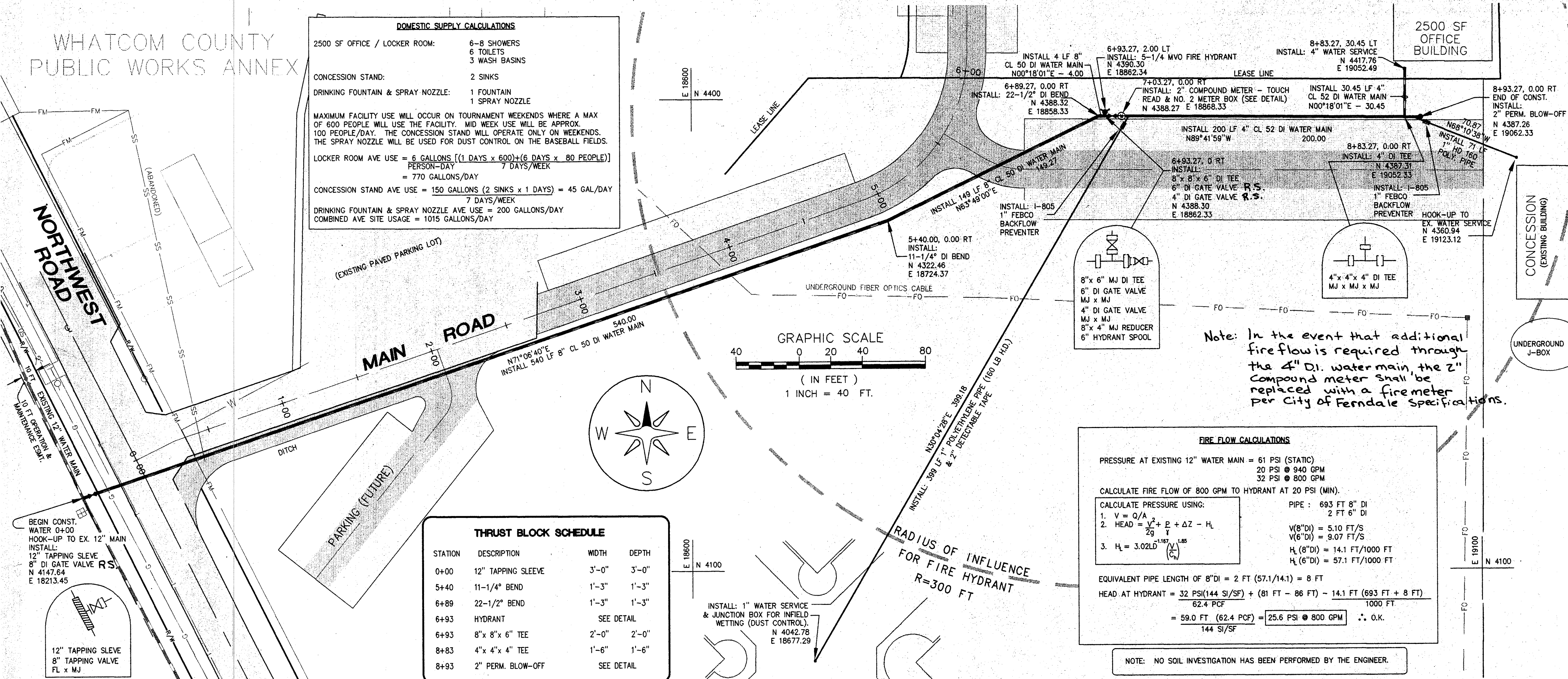
APPROVED
DEC 21 1995

BY *[Signature]*

SHEET

1

OF 3



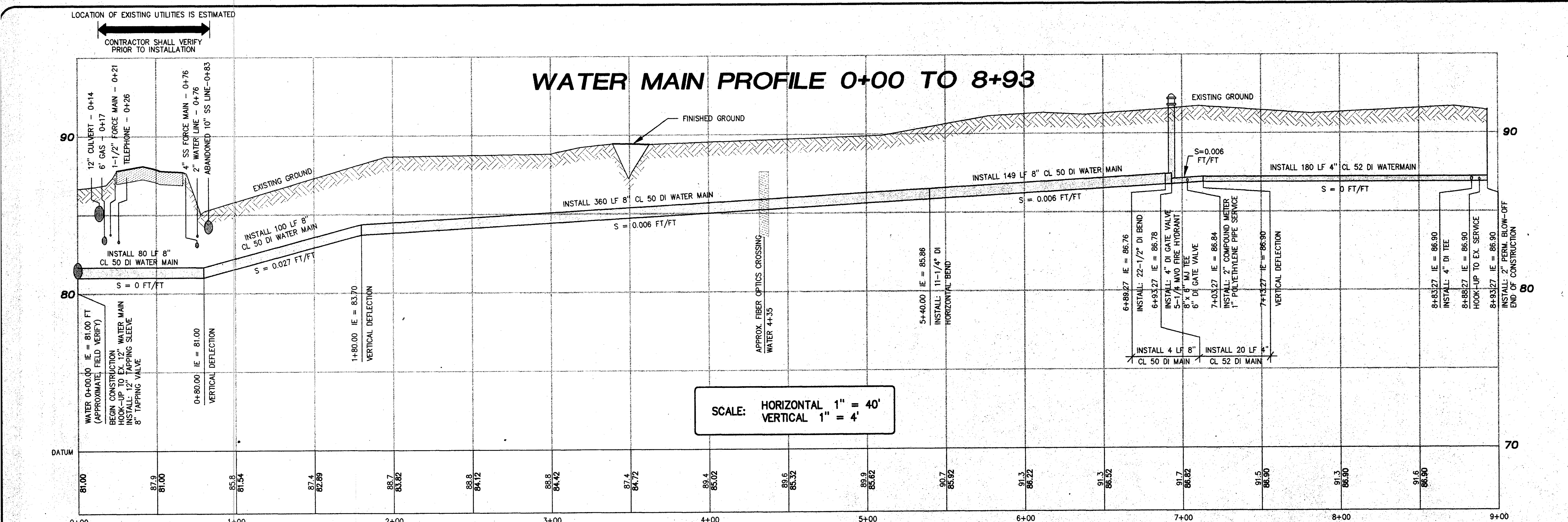
SPECIAL DETAILS & NOTES

DESIGN CRITERIA

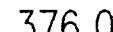
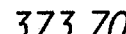
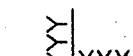
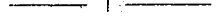
- * PROVIDE MINIMUM FIRE FLOW OF 800 GPM
- * CONNECT TO EXISTING WATER SUPPLY SYSTEM
- * USE MINIMUM CLASS 52-4" DUCTILE IRON PIPING
- * USE MINIMUM CLASS 50-6", 8" DUCTILE IRON PIPING
- * USE POLYETHYLENE PIPE FOR 1" DISTRIBUTION LINES.
- * MINIMIZE OVERALL PIPE LENGTH
- * MINIMIZE NUMBER OF FITTINGS AND CONNECTIONS
- * MINIMIZE EXCAVATION
- * PROVIDE 3.5 FEET OF PIPE COVER

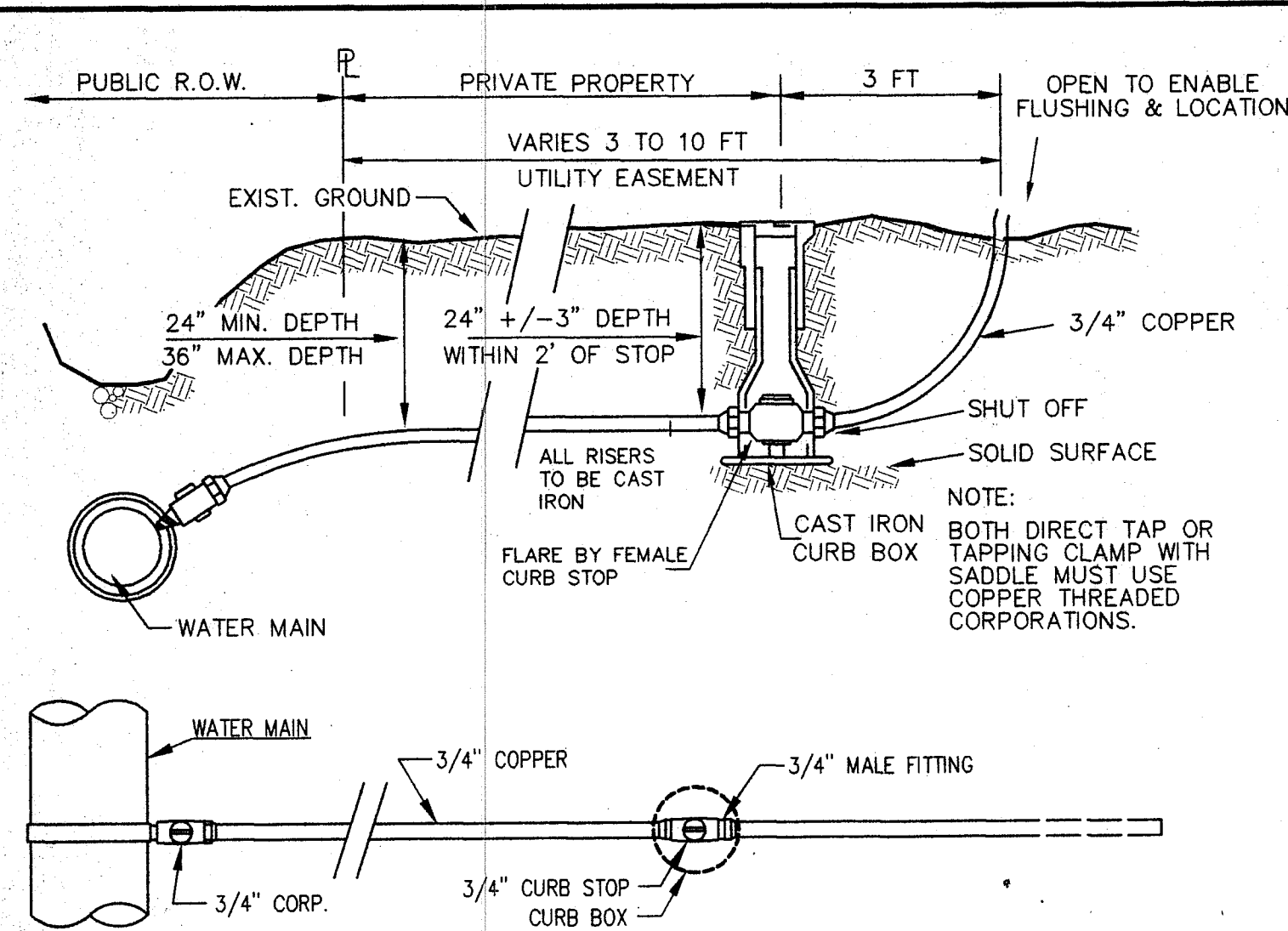
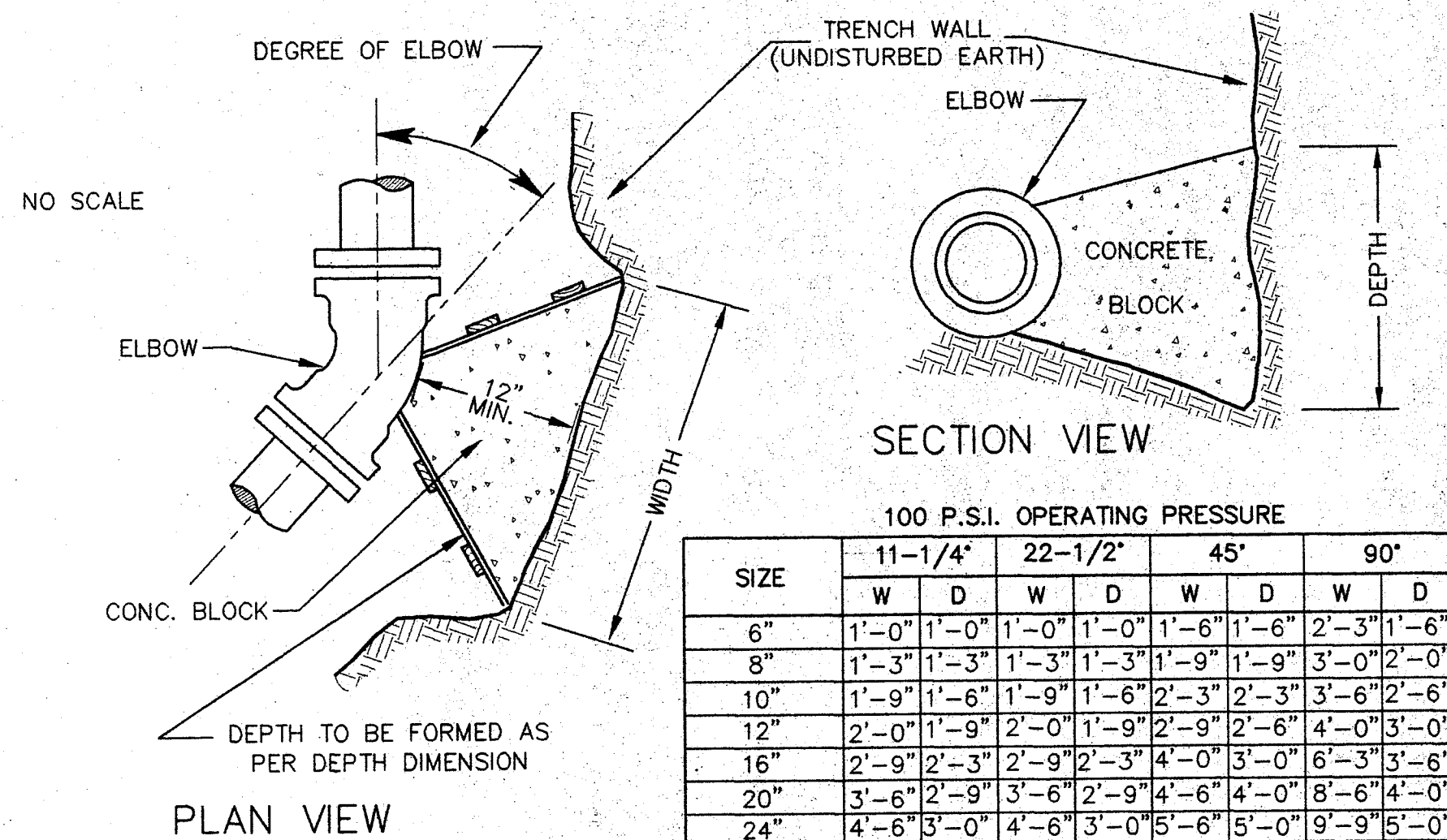
WATER NOTES

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH A.P.W.A. STANDARD SPECIFICATIONS, 1994 EDITION, AND SHALL BE SUBJECT TO APPROVAL BY THE CITY OF FERNDALE.
2. ALL 4" WATER MAINS SHALL BE DUCTILE IRON, THICKNESS CLASS 52 WITH CEMENT LINING. ALL OTHER DI WATER MAINS SHALL BE THICKNESS CLASS 20.
3. TEST PRESSURE FOR WATER SHALL BE 200 PSI AND SHALL BE DONE IN THE PRESENCE OF THE CITY PUBLIC WORKS DIRECTOR.
4. ANY POLYETHYLENE WATERMANS OR SERVICES SHALL BE HD 160 AND SHALL HAVE 2" DETECTABLE TAPE.
5. TWO INCH BLOW-OFF SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF FERNDALE SPECIFICATIONS.
6. ALL WORK MUST BE INSPECTED BY A REPRESENTATIVE OF THE CITY PUBLIC WORKS DIVISION, AND 24 HOURS NOTICE MUST BE GIVEN PRIOR TO STARTING WORK.
7. A MYLAR PRINT SHALL BE PROVIDED TO THE CITY FOR THEIR RECORDS.
8. CONNECTION TO EXISTING CITY WATER MAIN SHALL BE BY CONTRACTOR'S FORCES UPON SATISFACTORY PRESSURE AND SANITARY TESTING.
9. WATER SERVICES SHALL BE IN ACCORDANCE WITH CITY SPECIFICATIONS.
10. CONTRACTOR SHALL CONTACT UTILITY LOCATION SERVICE AT (800)424-5555, 48 HOURS IN ADVANCE OF WORK.
11. CONTRACTOR SHALL RESTORE RIGHT-OF-WAY TO ORIGINAL CONDITIONS.
12. FIRE HYDRANT INSTALLATION SHALL BE IN ACCORDANCE WITH THE CITY SPEC.
13. A REVOCABLE ENCROACHMENT PERMIT SHALL BE OBTAINED PRIOR TO COMMENCING WORK IN THE RIGHT-OF-WAY.

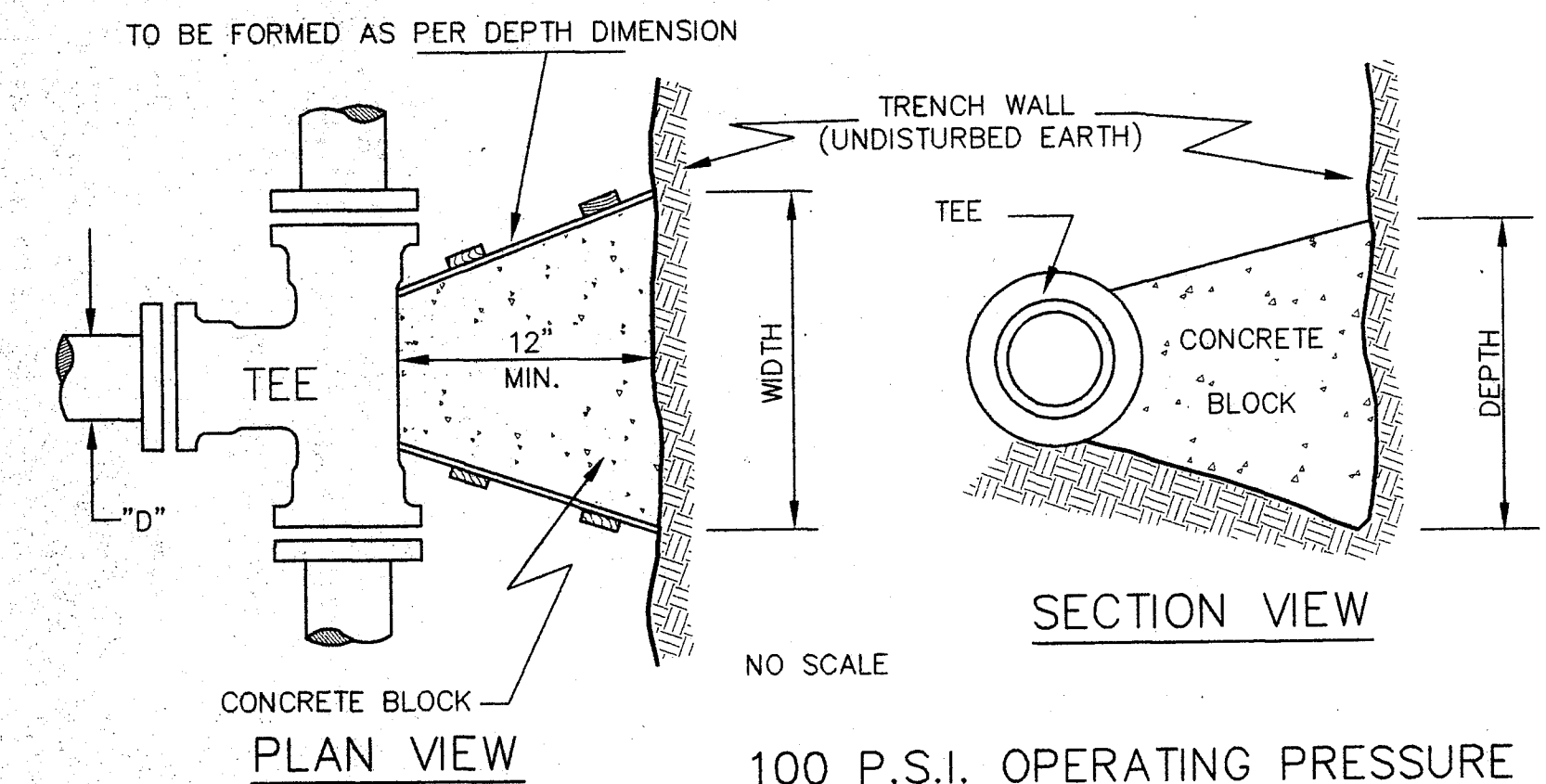


LEGEND - WATER

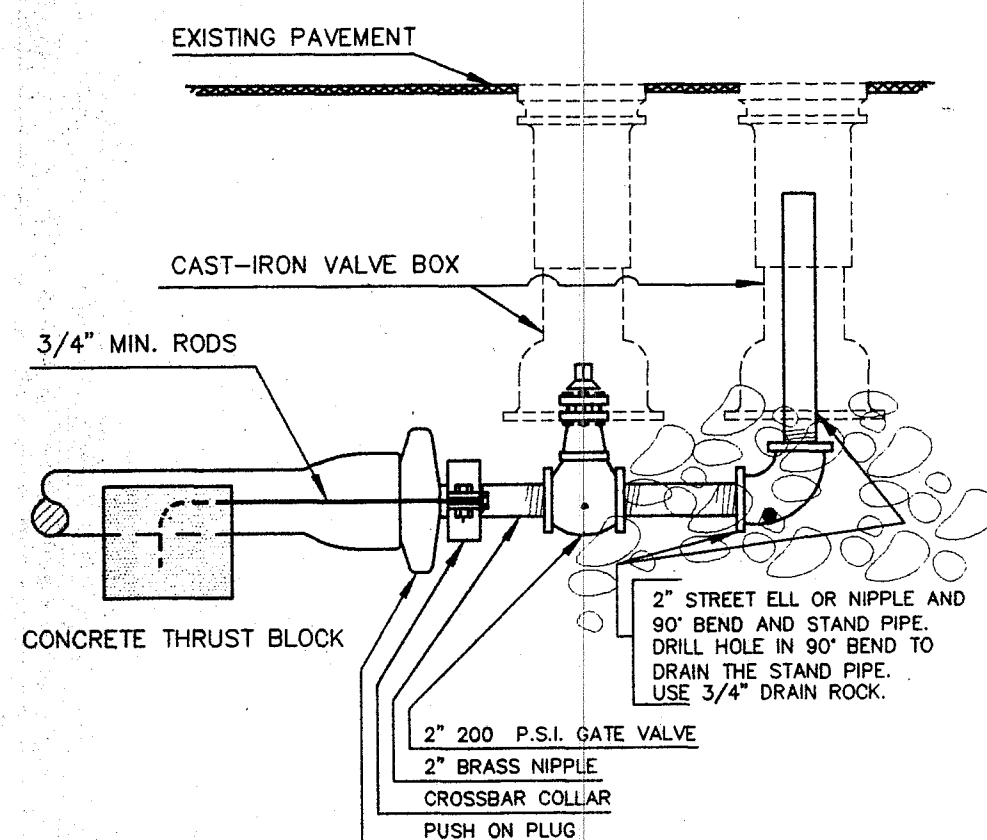
	CENTERLINE		EXISTING GROUND ELEVATION
	LOT LINES		FINISHED GROUND ELEVATION
	LEASE LINE		GATE VALVE
	STRUCTURAL SECTION		FIRE HYDRANT
	ESTIMATED ROCK		ABBREVIATED LAMBERT GRID COORDINATES
	EXISTING GROUND		PERMANENT BLOW-OFF
	EXISTING PAVEMENT		FIBER OPTICS
	WATER LINE		STORM DRAIN
	WATER SERVICE		TELEPHONE
			GAS

**TYPICAL SINGLE WATER SERVICE**

NOTE:
ALL ABOVE DIMENSIONS APPLY TO STABLE TRENCH
WALLS, UNDER VARIABLE CONDITIONS SIZE OF THRUST
BLOCK SHALL BE DETERMINED BY THE ENGINEER.



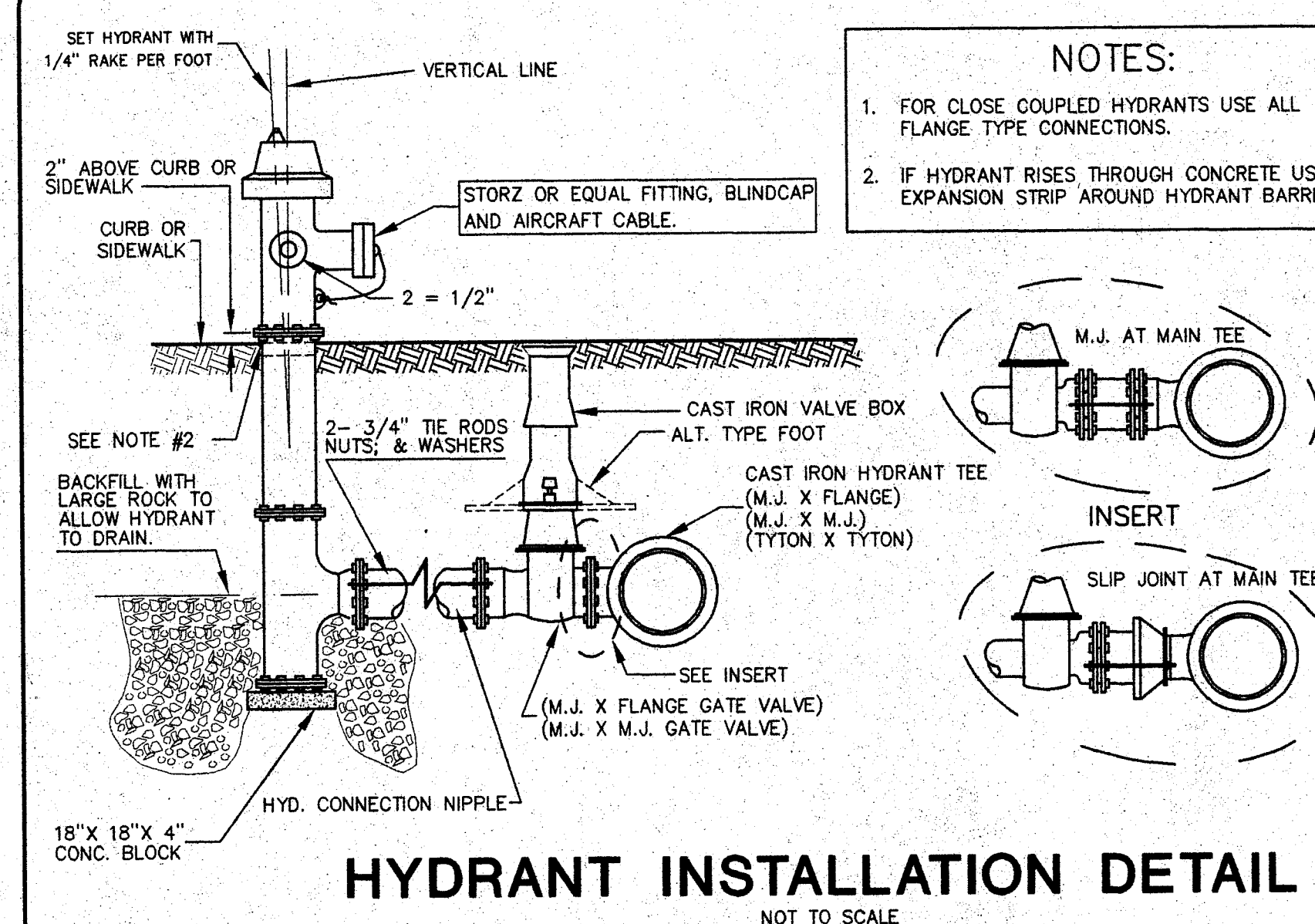
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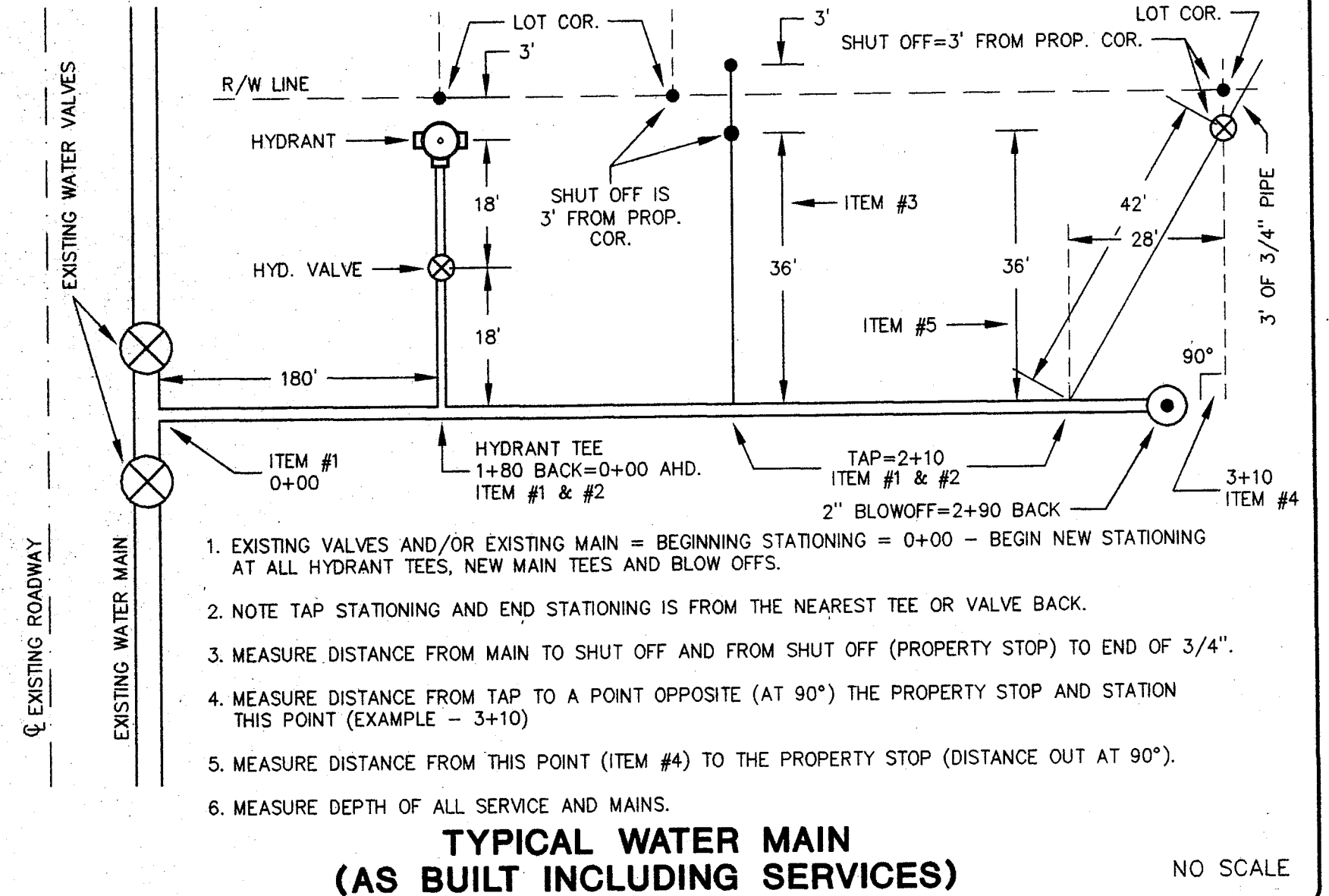
- NOTES:
1. ALTERNATE TO BE USED WHEN BLOW-OFF
IS IN ASPHALT PAVEMENT.
 2. SEE WA-4 (1 OF 2) FOR INSTALLATION WHEN
BLOW-OFF IS OFF OF TRAVELED ROAD-
WAY.

2" BLOW-OFF NO FURTHER EXTENSION**HYDRANT SPECIFICATIONS**

1. FIRE HYDRANTS SHALL BE FOR COMMON FERNDAL WATER WORKS SERVICE AND
SHALL BE IN COMPLIANCE WITH THE LATEST EDITION OF AWWA C502 "STANDARD
FOR DRY-BARREL FIRE HYDRANTS."
2. EACH HYDRANT SHALL BE 5-1/4" MAIN VALVE OPENING WITH "O" RING SEALS
AND TRAFFIC-TYPE BREAKAWAY DESIGN.
3. HYDRANT OPERATING NUT SHALL OPEN COUNTER-CLOCKWISE WITH THE DIRECTION
OF OPEN CLEARLY MARKED AT TOP OF HYDRANT. OPERATING AND CAP NUTS SHALL
BE PENTAGON IN SHAPE AND THE DIMENSION SHALL BE 1-1/4" POINT TO FLAT
(NATIONAL STANDARD).
4. HYDRANT SHALL BE 6" INLET MECHANICAL JOINT (WITH ACCESSORIES) OR AS
SPECIFIED. HYDRANT SHALL HAVE TWO HOSE AND ONE PUMPER NOZZLE. HYDRANTS
TO BE ACCEPTABLE FOR A 3-1/2" DEPTH OF BURY. HYDRANT TO HAVE RUST-
PROOF AUTOMATIC DRAIN.
5. HYDRANT TO BE CAPABLE OF ROTATING THROUGH 360 DEGREES.
6. THREAD SPECIFICATIONS: HOSE NOZZLES TO BE 2-1/2" INSIDE DIAMETER WITH
NATIONAL STANDARD THREADS. PUMPER NOZZLE TO BE 4" INSIDE DIAMETER
WITH THREADS AS FOLLOWS: 60 DEGREE - 6 THREADS PER INCH, PITCH
DIAMETER - 4.708", OUTSIDE DIAMETER - 4.817".
7. EACH HYDRANT PUMPER PORT SHALL BE EQUIPPED WITH A SNAP-TITE STORZ
#54/F/MF, 5" FITTING AND BLIND CAP (STORTZ). EACH FITTING WILL
ALSO BE ATTACHED TO THE HYDRANT WITH A SECTION OF AIRCRAFT CABLE.
8. HYDRANT TO BE PAINTED RED WITH WHITE DOME AND CAPS.
9. IN ZONES OF THE DISTRIBUTION SYSTEM WHERE THE STATIC PRESSURE EXCEEDS
150 PSI, ONLY HYDRANTS OF THE "COREY TYPE" OR CENTER STEM HYDRANTS WITH
AWWA APPROVED RATING OF 200 PSI WORKING PRESSURE WILL BE ACCEPTED.
10. UPON COMPLETION OF THE PROJECT THE OWNER SHALL PROVIDE AS-BUILT DRAWINGS
TO THE CITY OF FERNDAL.

**DETAIL NOTE**

THE DETAILS SHOWN ABOVE ARE ADAPTED FROM CITY OF FERNDAL
STANDARD DETAILS DATED JUNE 1995.
THESE DETAILS HAVE BEEN REDRAWN BY JONES ENGINEERS, INC.



AWN BY DATE
ECKED BY DATE

**NORTHWEST AVENUE
COMBINED SPORTS FIELD FACILITY**

JOB # 95059

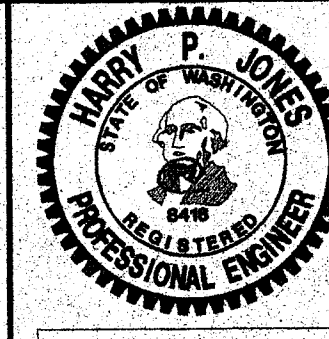
FOR: W.C. SOCCER COMMISSION / BOYS & GIRLS CLUB

**CONSTRUCTION DETAILS:
WATER DISTRIBUTION SYSTEM**

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THIS DOCUMENT, CONSISTING OF
PLANS, SPECIFICATIONS, AND SPECIFICATIONS, WAS PREPARED UNDER
MY PERSONAL SUPERVISION AND MEETS CITY OF FERNDAL
AND WHATCOM COUNTY CODES AND STANDARDS AND FURTHER
THAT SAID PLANS MEET THE GENERALLY ACCEPTED STANDARDS
OF PRACTICE WITHIN THE STATE OF WASHINGTON.

HARRY P. JONES, P.E., PLS DATE MAY 10, 1996



**JONES ENGINEERS
INCORPORATED, P.S.**

CONSULTING ENGINEERS

861 COHO WAY, SUITE 307
BELLINGHAM, WA 98225 (206) 733-8888

DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH
CONTRACT DOCUMENTS/COUNTY STANDARDS
NO RESPONSIBILITY IS ASSUMED FOR
CORRECTNESS OF DIMENSIONS OR DETAILS

WHATCOM COUNTY
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING AND
OPERATIONS

BY DATE

DEPARTMENT OF PUBLIC WORKS

FERNDAL, WASHINGTON
APPROVED

This plan has been reviewed and found
to be in conformance with department
standards.

CITY ENGINEER DATE 5/10/96

SHEET

3

OF 3