

8" PUBLIC WATER MAIN

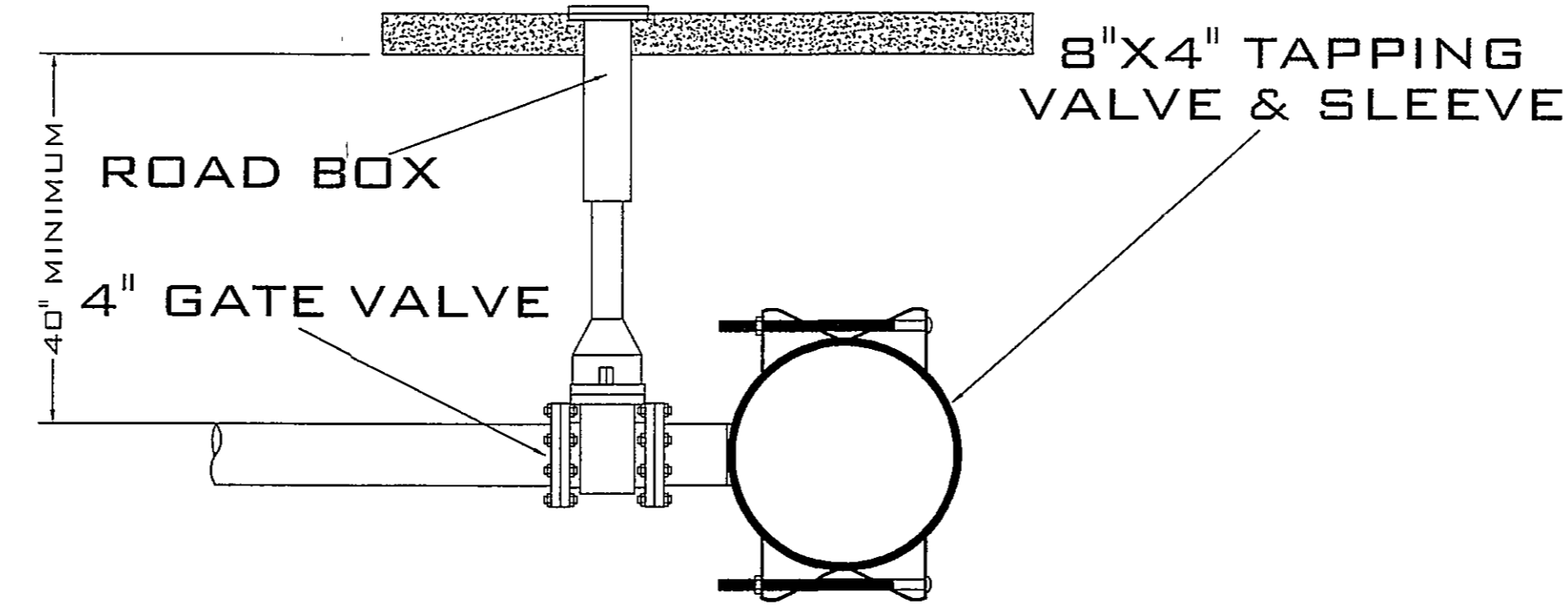
5TH STREET

8" PUBLIC WATER MAIN

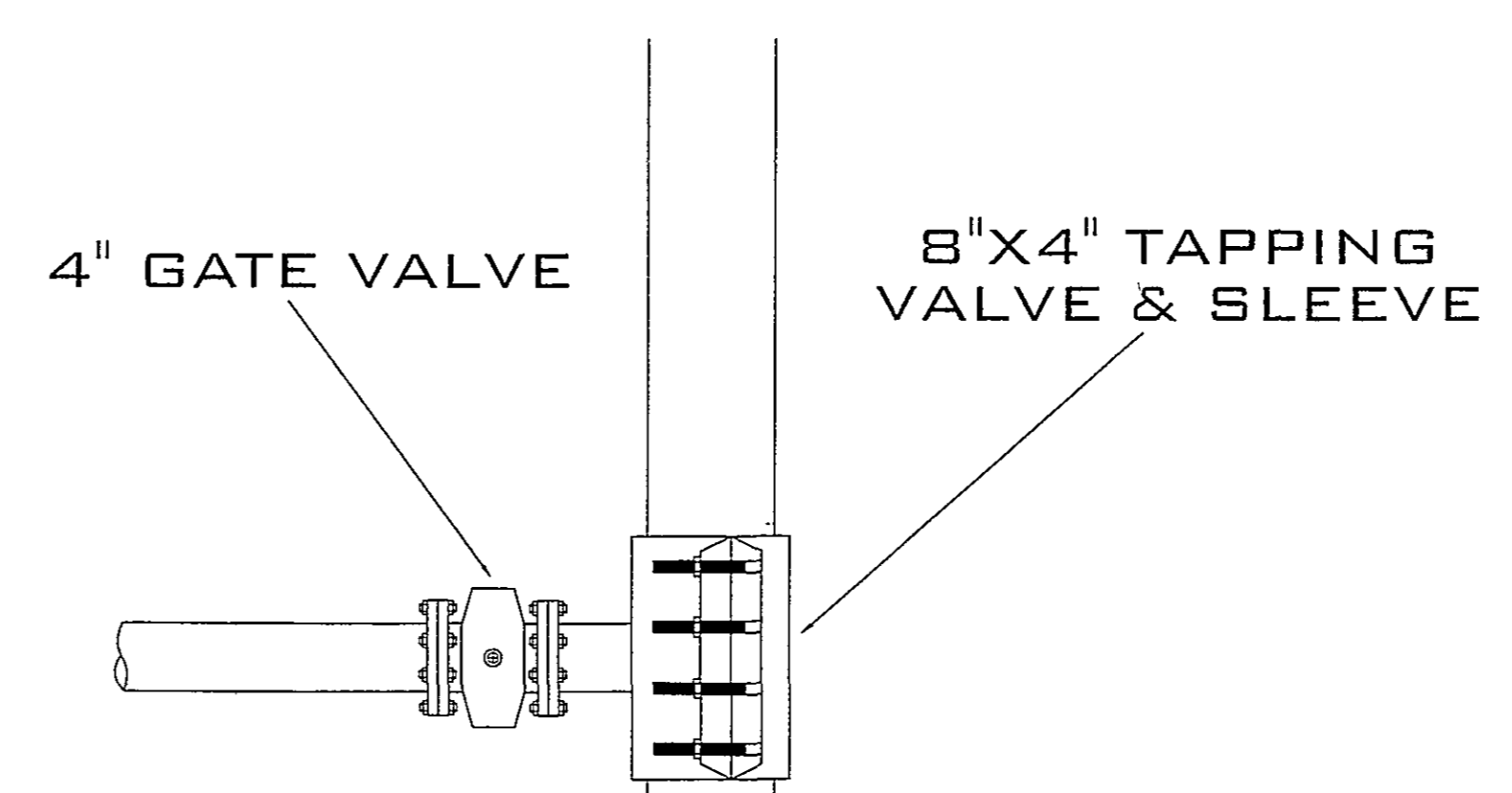
R.S.I. TO SET VAULT AND RUN 4" D.I. & CONNECT TO 4" STUB OUT OF VAULT

AS BUILT 2-21-08

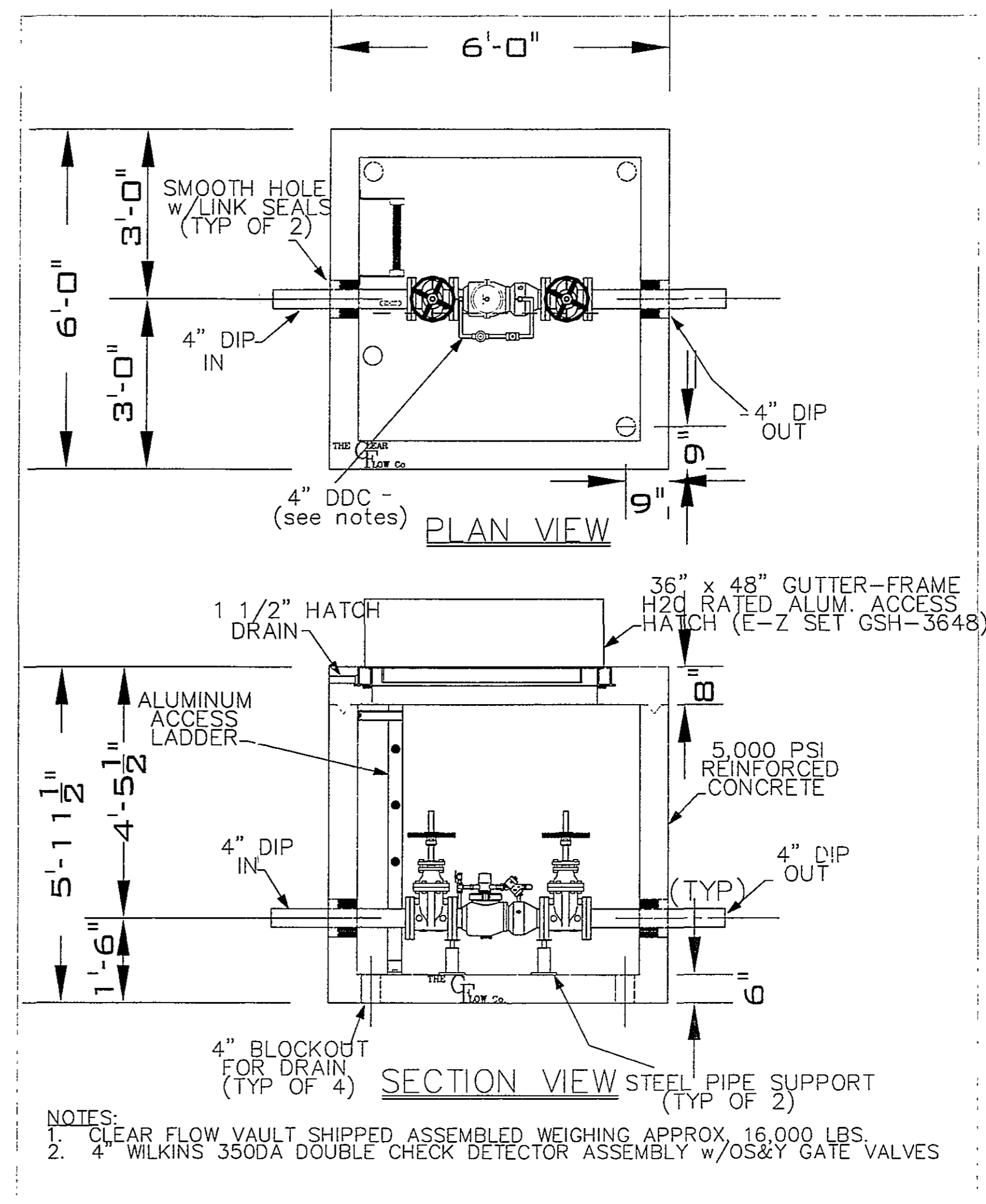
W.C.H.



**TAPPING VALVE & SLEEVE**  
1/2" = 1'-0"



**TAPPING VALVE & SLEEVE**  
1/2" = 1'-0"



NOTES:  
1. CLEAR FLOW VAULT SHIPPED ASSEMBLED WEIGHING APPROX. 16,000 LBS.  
2. 4" WILKINS 3500A DOUBLE CHECK DETECTOR ASSEMBLY W/O S&Y GATE VALVES

**VAULT DETAIL**  
1/2" = 1'-0"

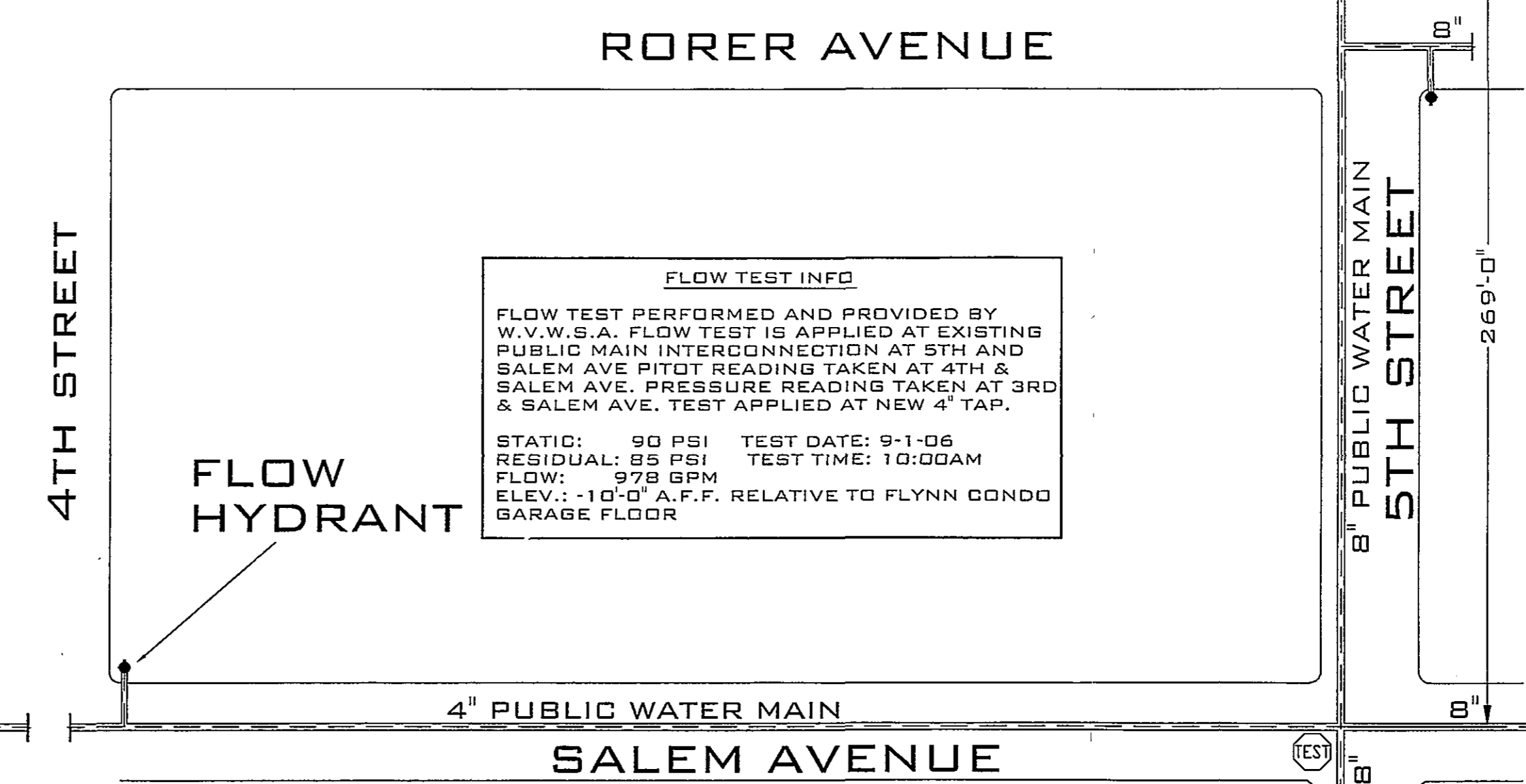
DESIGN: ROANOKE, VIRGINIA  
DRAWN: STEVE L. CORBO  
CHECKED: CHUCK J. SPOTTSWOOD  
APPROVED: P. O. BOX 1460  
1324 7TH STREET N.E.  
ROANOKE, VA 24012  
(540) 981-0009

- GENERAL PROJECT NOTES**
- R.S.I. TO PROVIDE TAPPING VALVE & SLEEVE TO W.V.W.S.A. FOR INSTALLATION AND HOT TAP OF 8" PUBLIC MAIN.
  - R.S.I. TO DIT, EXCAVATE AND REPATCH SURFACES AS REQUIRED.
  - BACK FILL OF DITCH AN EXCAVATION FOR TAP IN 5TH STREET TO BE CONCRETE FLOWABLE FILL.
  - TOP OF VAULT IN SIDEWALK TO BE EVEN WITH EXISTING SIDEWALK ELEVATION.
  - UNDERGROUND FITTINGS TO BE MECHANICAL JOINT WITH RETAINER GLANDS IN LIEU OF THRUST BLOCKING PER N.F.P.A. #24.
  - NEW FIRE MAIN TO BE INSTALLED, TESTED AND FLUSHED IN ACCORDANCE WITH N.F.P.A. #24.

RORER AVENUE

PRESSURE HYDRANT

FLOW HYDRANT



**EXISTING MAIN & FLOW TEST**  
1" = 40'-0"

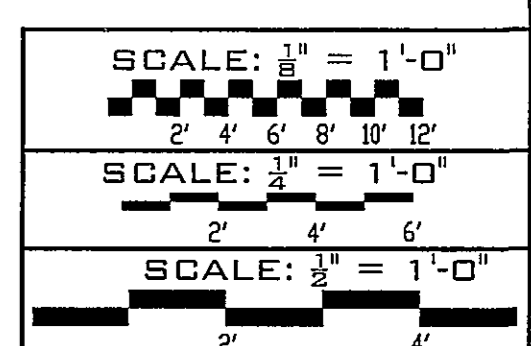
**FLOW TEST INFO**

FLOW TEST PERFORMED AND PROVIDED BY W.V.W.S.A. FLOW TEST IS APPLIED AT EXISTING PUBLIC MAIN INTERCONNECTION AT 5TH AND SALEM AVE. PITOT READING TAKEN AT 4TH & SALEM AVE. PRESSURE READING TAKEN AT 3RD & SALEM AVE. TEST APPLIED AT NEW 4" TAP.

STATIC: 90 PSI TEST DATE: 9-1-06  
RESIDUAL: 85 PSI TEST TIME: 10:00AM  
FLOW: 978 GPM  
ELEV.: -10'-0" A.F.F. RELATIVE TO FLYNN CONDO GARAGE FLOOR

LOCATION OF F.D.C. ON BUILDING

AS-BUILT



*Chuck Spottswood*  
**ROANOKE SPRINKLER, INC.**  
FIRE PROTECTION SYSTEMS

1334 7TH STREET N.E.  
ROANOKE, VIRGINIA 24012  
(540) 981-0009 FAX (540) 981-1010

PLAN NORTH		SYSTEM DESIGN CRITERIA		SYMBOLS		HANGERS		SPRINKLERS		COMMENTS																																																																							
Type System: <input checked="" type="checkbox"/> Wet <input type="checkbox"/> Dry <input type="checkbox"/> Preaction <input type="checkbox"/> Other		NFPA Std.: <input checked="" type="checkbox"/> #13 <input type="checkbox"/> #13R <input type="checkbox"/> #20 <input type="checkbox"/> #24		<p>Hydraulic Reference Points</p> <p>8'-6" AFF Ceiling Height</p> <p>9'-9" TOS Elev. of Top of Steel</p> <p>Pipe Elevations</p> <p>Denotes Hanger Location</p> <p>○ Rise up or down</p> <p>EC=Ext. Coverage QR=Quick Response SR=Standard Response</p>		<p>Purlin Hanger <input type="checkbox"/></p> <p>Steel Hanger <input checked="" type="checkbox"/></p> <p>Wood Hanger <input type="checkbox"/></p> <p>Concrete Hanger <input checked="" type="checkbox"/></p>		<p>TOTAL = 63</p> <table border="1"> <thead> <tr> <th>Symbol</th> <th>Manufacturer</th> <th>Count</th> <th>Model</th> <th>Type</th> <th>Orifice</th> <th>Temp.</th> <th>Finish</th> <th>K-Factor</th> <th>Escutcheon</th> </tr> </thead> <tbody> <tr> <td>○</td> <td>VICTUALIC</td> <td>8</td> <td>V2708</td> <td>GR-PENDENT</td> <td>1/2"</td> <td>155°</td> <td>CHROME</td> <td>5.6</td> <td>RECESSED</td> </tr> <tr> <td>○</td> <td>VICTUALIC</td> <td>3</td> <td>V2708</td> <td>GR-PENDENT</td> <td>1/2"</td> <td>200°</td> <td>CHROME</td> <td>5.6</td> <td>RECESSED</td> </tr> <tr> <td>○</td> <td>VICTUALIC</td> <td>47</td> <td>V2708</td> <td>GR-UPRIGHT</td> <td>1/2"</td> <td>155°</td> <td>BRASS</td> <td>5.6</td> <td>NDNE</td> </tr> <tr> <td>○</td> <td>VICTUALIC</td> <td>2</td> <td>V2708</td> <td>GR-UPRIGHT</td> <td>1/2"</td> <td>286°</td> <td>BRASS</td> <td>5.6</td> <td>NDNE</td> </tr> <tr> <td>○</td> <td>VICTUALIC</td> <td>1</td> <td>V2708</td> <td>GR-UPRIGHT</td> <td>1/2"</td> <td>155°</td> <td>BRASS</td> <td>5.6</td> <td>IGN 1" SERIG UP</td> </tr> <tr> <td>○</td> <td>VICTUALIC</td> <td>2</td> <td>V2710</td> <td>GR-H2Z-SV</td> <td>1/2"</td> <td>155°</td> <td>BRASS</td> <td>5.6</td> <td>NDNE</td> </tr> </tbody> </table>		Symbol	Manufacturer	Count	Model	Type	Orifice	Temp.	Finish	K-Factor	Escutcheon	○	VICTUALIC	8	V2708	GR-PENDENT	1/2"	155°	CHROME	5.6	RECESSED	○	VICTUALIC	3	V2708	GR-PENDENT	1/2"	200°	CHROME	5.6	RECESSED	○	VICTUALIC	47	V2708	GR-UPRIGHT	1/2"	155°	BRASS	5.6	NDNE	○	VICTUALIC	2	V2708	GR-UPRIGHT	1/2"	286°	BRASS	5.6	NDNE	○	VICTUALIC	1	V2708	GR-UPRIGHT	1/2"	155°	BRASS	5.6	IGN 1" SERIG UP	○	VICTUALIC	2	V2710	GR-H2Z-SV	1/2"	155°	BRASS	5.6	NDNE	<p>Revisions:</p> <p>Date:</p> <p>Designer:</p>	
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<p>Occupancy: PARKING GARAGE &amp; RESIDENTIAL</p> <p>Maximum Head Spacing: 130 &amp; 225 sq. ft. max</p> <p>Hazard: LIGHT &amp; ORDINARY GROUP I</p> <p>Approving Authority: LOCAL</p> <p>Sprinkler Heads Center Of Title: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>All Piping 1 1/2" And Smaller To Be Schedule 40 W/ Thr'd couplings &amp; mechanical tees or Thr'd Fittings.</p> <p>All Piping 2" And Larger To Be Schedule 10 W/ Gr'd fittings &amp; mech tee outlets</p> <p>All Pipes and Hangers are to be installed per NFPA #13</p> <p>Owner's Responsibility To Maintain Heat of Greater than 40°F In All Areas Of Building!</p>		<p>Job No.:</p> <p>DATE: 11-15-07</p> <p>DESIGNER: C.SPOTTSWOOD</p> <p>SCALE: AS NOTED</p>		<p>NEW UNDERGROUND WORK, EXISTING UNDERGROUND PLAN, DETAILS &amp; NOTES</p> <p>FLYNN-ROANOKE LOFT CONDOS</p> <p>302 5TH STREET</p> <p>ROANOKE, VIRGINIA</p>		<p>SHEET No. 2</p> <p>OF 2</p>																																																																											