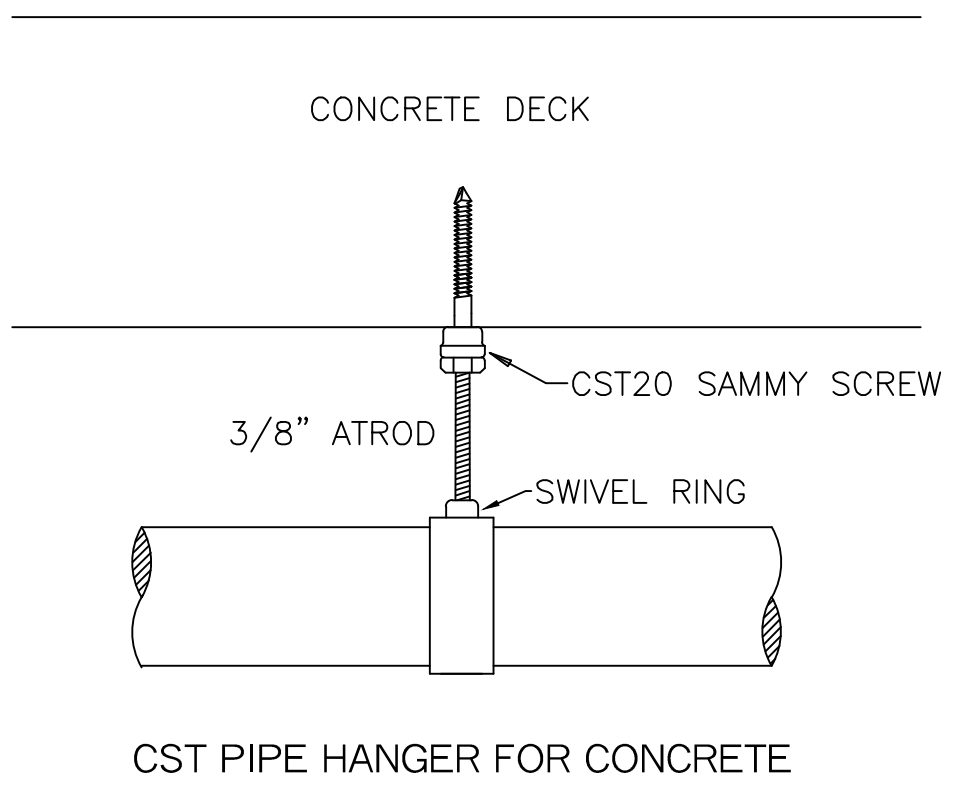
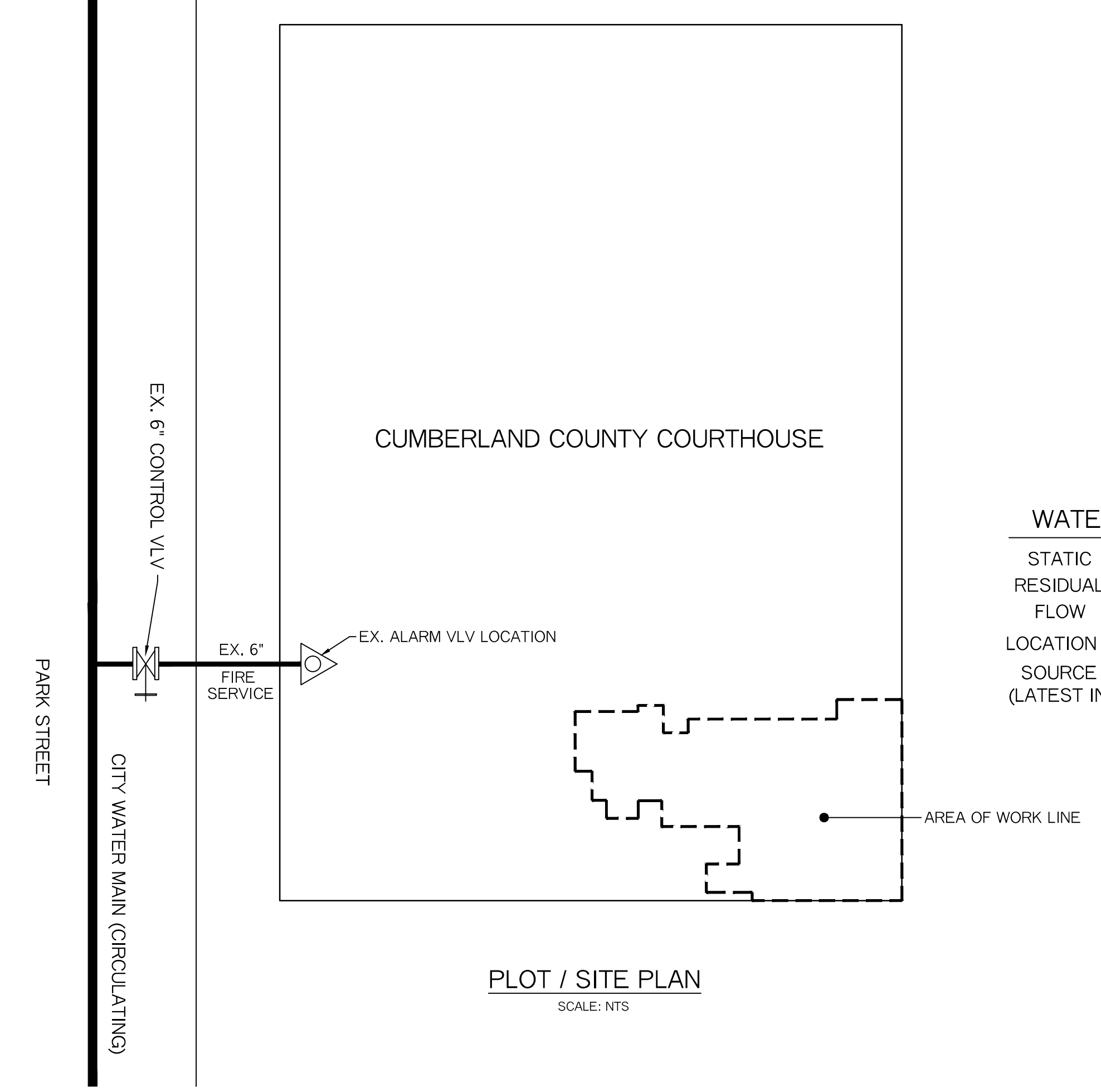


**BUILDING SECTION "A"**  
SCALE: 1/4" = 1'-0"

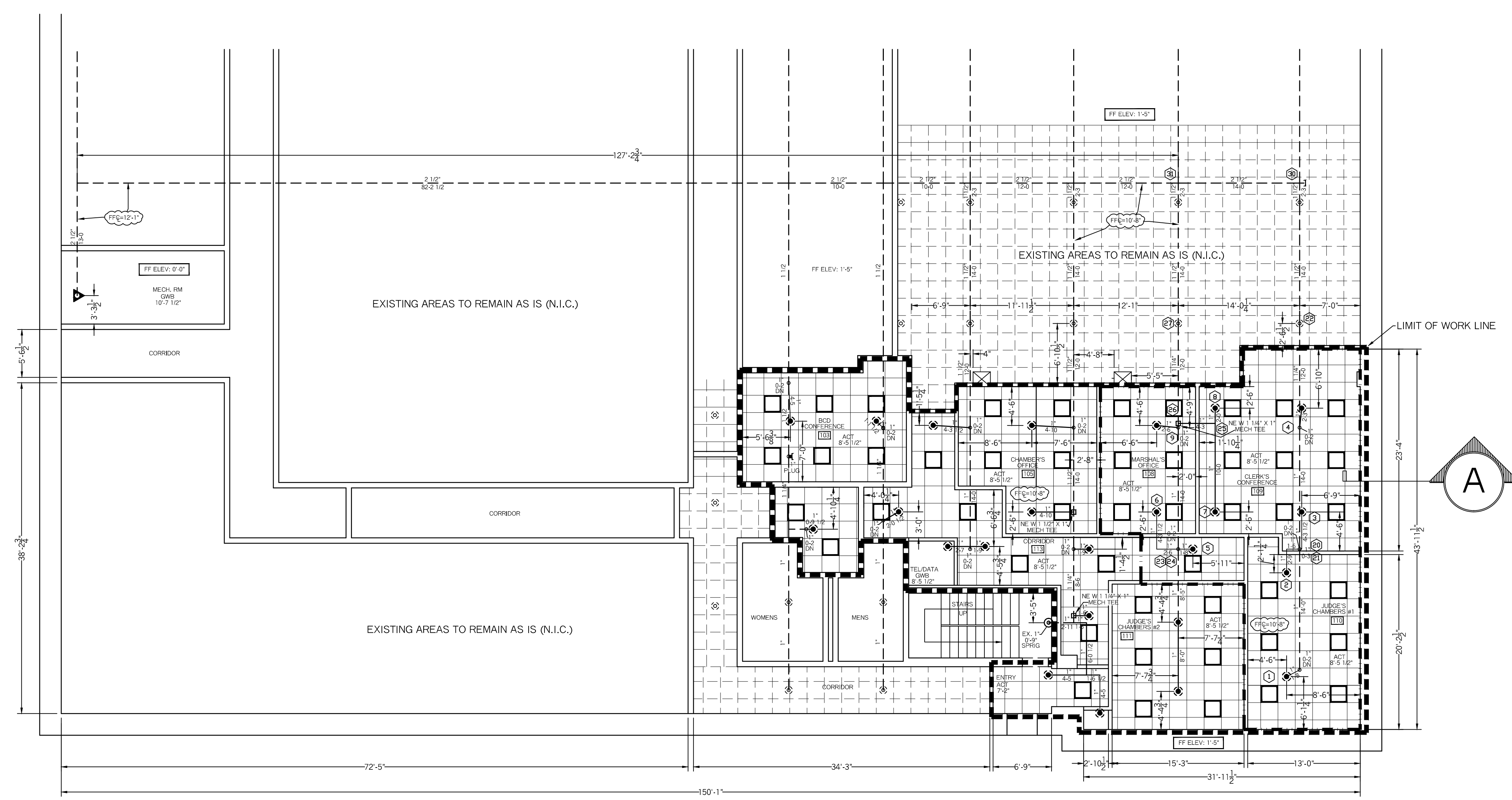


**HANGER DETAILS**  
N.T.S.



**PLOT / SITE PLAN**  
SCALE: N.T.S.

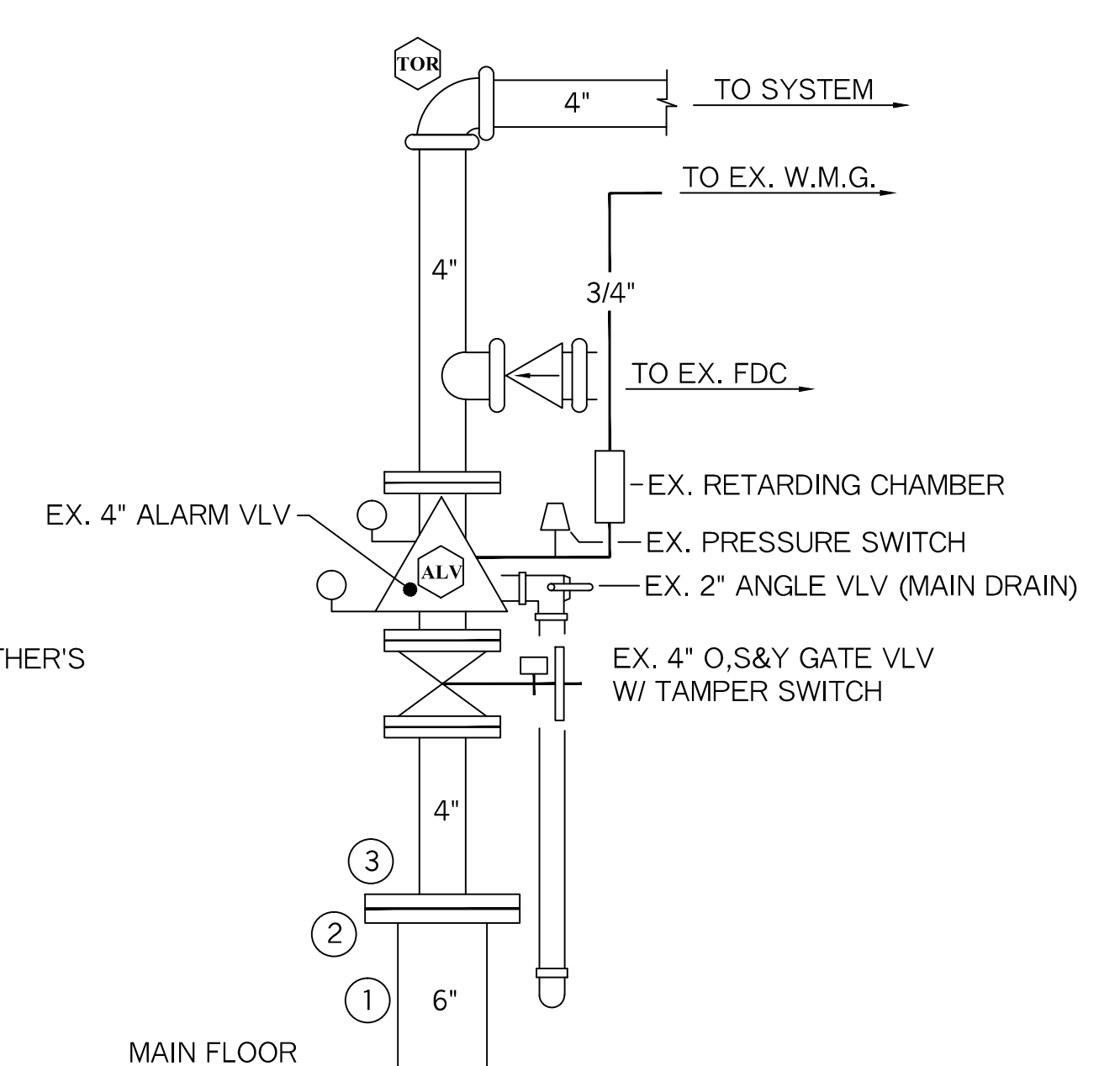
**WATER SUPPLY DATA**  
 STATIC = 94 PSI  
 RESIDUAL = 84 PSI  
 FLOW = 480 GPM  
 LOCATION = EX. 4" ALARM VLV RISER  
 SOURCE = 2" MAIN DRAIN TEST (LATEST INSPECTION TAG READING)



**MAIN FLOOR PLAN**  
SCALE: 1/8" = 1'-0"  
FLOOR AREA= 6,952.0 SF  
FF ELEV: 0.0'

**EXISTING VALVE RISER LEGEND**

- ① EX. 6" DICL UNDERGROUND SPIGOT
- ② EX. 6" UNI-FLANGE
- ③ EX. 6" X 4" COMPANION FLANGE
- ④ EX. 4" FILLER PIECE
- ⑤ EX. 4" O.S & Y GATE VALVE (N.O.)
- ⑥ EX. TAMPER SWITCH
- ⑦ EX. WATER PRESSURE GAUGE (3.5" DIA.)
- ⑧ EX. POTTER PS-102 VPRESSURE TYPE FLOW SWITCH, WIRED BY OTHER'S
- ⑨ EX. 2" MAIN DRAIN VALVE (N.C.)
- ⑩ EX. RETARDING CHAMBER
- ⑪ EX. POTTER PS-102 PRESSURE SWITCH
- ⑫ EX. WATER MOTOR GONG
- ⑬ EX. SPARE HEAD BOX, 6 HD CAPACITY W/ WRENCH
- ⑭ EX. 4" CHECK VALVE (FDC)
- ⑮ EX. 1/2" AUTOMATIC BALL DRIP
- ⑯ EX. 2 1/2" X 2 1/2" X 4" SIAMESE FDC W/ WALL PLATE
- ⑰ EX. 2" GALV. 45 ELL
- ⑱ NEW HEAD BOX, 6 HEAD CAPACITY



**EXISTING RISER DETAIL**  
SCALE: N.T.S.

HYDRAULIC CALCULATION INFORMATION	
LOCATION:	2016 ADMINISTRATION RENOVATION
BASIS OF DESIGN:	NFPA 13, 2016 EDITION
DENSITY	AREA OF COVERAGE
.1	942 SF
OCCUPANCY:	ADMINISTRATION (LIGHT HAZARD)
SPRINKLERS:	TOTAL THRD ORIFICE TEMP
9	1/2" 155
SYSTEM DEMAND AT BOTTOM OF RISER (BOR):	
PRESSURE	FLOW HOSE
52.8 PSI	186.42 GPM 0
SAFETY MARGIN:	36.47 PSI

NOTE:  
HYDRAULIC CALCULATION BASED ON WATER INFORMATION PROVIDED BY THE LATEST INSPECTION REPORT AT THE VALVE RISER

**SYSTEM SYMBOL LEGEND:**

- ⊙ = EXIST. 1/2" CHROME RECESSED PENDENT HEAD (K=5.6) (TO REMAIN AS IS)
- ⊙ = HYDRAULIC CALCULATION REFERENCE POINT
- = PLUG
- N.I.C.= NOT IN CONTRACT
- NEW PIPE= \_\_\_\_\_
- EXISTING PIPE= - - - - -

**SYSTEM GENERAL NOTES:**

- A WET PIPE SYSTEM OF AUTOMATIC SPRINKLERS TO BE DESIGNED AND INSTALLED PER NFPA 13 (2016 EDITION)
- SPRINKLERS PROTECTION, IN THE AREA OF WORK, TO BE BASED ON LIGHT HAZARD OCCUPANCY
- REWORK EXISTING SPRINKLER LOCATIONS, IN THE RENOVATED AREA ONLY, TO ACCOMMODATE NEW WALL AND CEILING LAYOUT.
- REUSE EXISTING SPRINKLERS HEADS. DO SO BY REMOVING THE 1" DROP AND NOT REMOVING SPRINKLER.
- NEW PENDENT SPRINKLERS, IF REQUIRED, WILL BE 1/2" VIKING SR WHITE RECESSED.
- NEW HYDRAULIC CALCULATION DESIGN AREA IS REDUCED PER NFPA 13, 2016 EDITION CHAPTER 11, SECTION 11.2.3.2.3.1 "QUICK RESPONSE SPRINKLERS"
- NEW LINE PIPING TO BE SCHEDULE 40 BLACK STEEL WITH THREADED C.I. FITTINGS.

**SPRINKLER HEAD INFORMATION, THIS FLOOR ONLY**

QTY	SIZE	ORIFICE	K-FACTOR	DESCRIPTION	MODEL	TEMP	ESCUTCHEON	SYMBOL
24	1/2"	1/2"	5.6	RELOCATED EXISTING CHROME SR PENDENT	---	155	RECESSED	⊙
TOTAL HEADS= 24								

PROJECT NAME: <b>CUMBERLAND COUNTY COURTHOUSE</b> 2016 ADMINISTRATION RENOVATIONS PORTLAND, ME. 04101	FIRE SPRINKLER PLANS AND DETAILS REQUIRED APPROVALS: STATE FIRE MARSHALS OFFICE LOCAL FIRE DEPARTMENT OWNER	RESIDENTIAL FIRE PROTECTION, LLC
CONTRACT WITH: <b>DOTON'S CONSTRUCTION</b> 175 SOUTH FREEPORT ROAD FREEPORT, ME. 04032 PH: (207) 324-5574	DRAWN BY: TPP NICET III CERTIFICATION # 100854	DATE: 1-10-2016
<b>RESIDENTIAL FIRE PROTECTION</b> 64 DAGGETT HILL ROAD, GREENE, MAINE 04236 PH: (207) 946-3473 FAX: (207) 946-3474	CHECKED BY: SAC NICET III (08864) CERTIFICATION # 78065	SCALE: 1/8" = 1'-0"
	CONTRACTOR LICENSE #511 CONTRACTOR RMS #80	CONTRACT NO. C17001 DRAWING NO. 1 OF 1