



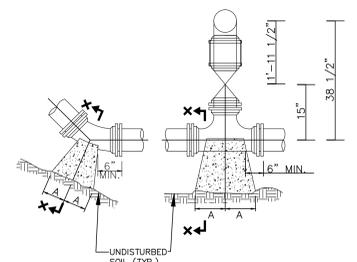
UTILITY KEYNOTES

1. RELOCATED NATURAL GAS MAIN
2. RELOCATED POWER DUCT BANK (SEE ELECTRICAL PLANS FOR DETAIL)
3. ELECTRICAL SECTIONALIZER VAULT (SEE ELECTRICAL PLANS FOR DETAIL)
4. TRANSFORMER (SEE ELECTRICAL PLANS FOR DETAIL)
5. POWER DUCT BANK (SEE ELECTRICAL PLANS FOR DETAIL)
6. PRECAST 1500 GALLON GREASE INTERCEPTOR
7. CONCRETE PAD COLLAR
8. SANITARY CLEANOUT
9. SANITARY SEWER, SEE CU201 FOR PROFILE
10. 6" COMBINATION FIRE MAIN AND WATER SERVICE
11. RELOCATED WATER MAIN (ASSUMED 12", CONTRACTOR TO VERIFY IN FIELD)
12. ADJUST CASTING TO GRADE
13. FIRE DEPARTMENT CONNECTION
14. TWO-WAY STORM CLEANOUT PER PLUMBING PLANS
15. FLEXIBLE BOOT CONNECTION TO MANHOLE
16. EXISTING TELECOM DUCT BANK TO REMAIN IN PLACE. CONTRACTOR RESPONSIBLE TO BUILD FOUNDATION WALL AROUND DUCT BANK AND PROTECT AT ALL TIMES. NO SHUT DOWNS OF COMMUNICATIONS LINE AREA ALLOWED.
17. RELOCATED IRRIGATION SUPPLY LINE.

THE UTILITIES INDICATED ON THESE PLANS MAY NOT BE A COMPLETE INVENTORY OF ALL UTILITIES CURRENTLY ON OR NEAR THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING PUBLIC AND/OR PRIVATE UTILITY LOCATING SERVICES, INCLUDING POT-HOLING FOR DEPTH, PRIOR TO STARTING CONSTRUCTION IN ORDER TO FIELD VERIFY ALL HORIZONTAL AND VERTICAL LOCATIONS PRIOR TO STARTING CONSTRUCTION ACTIVITIES.

NOTES:

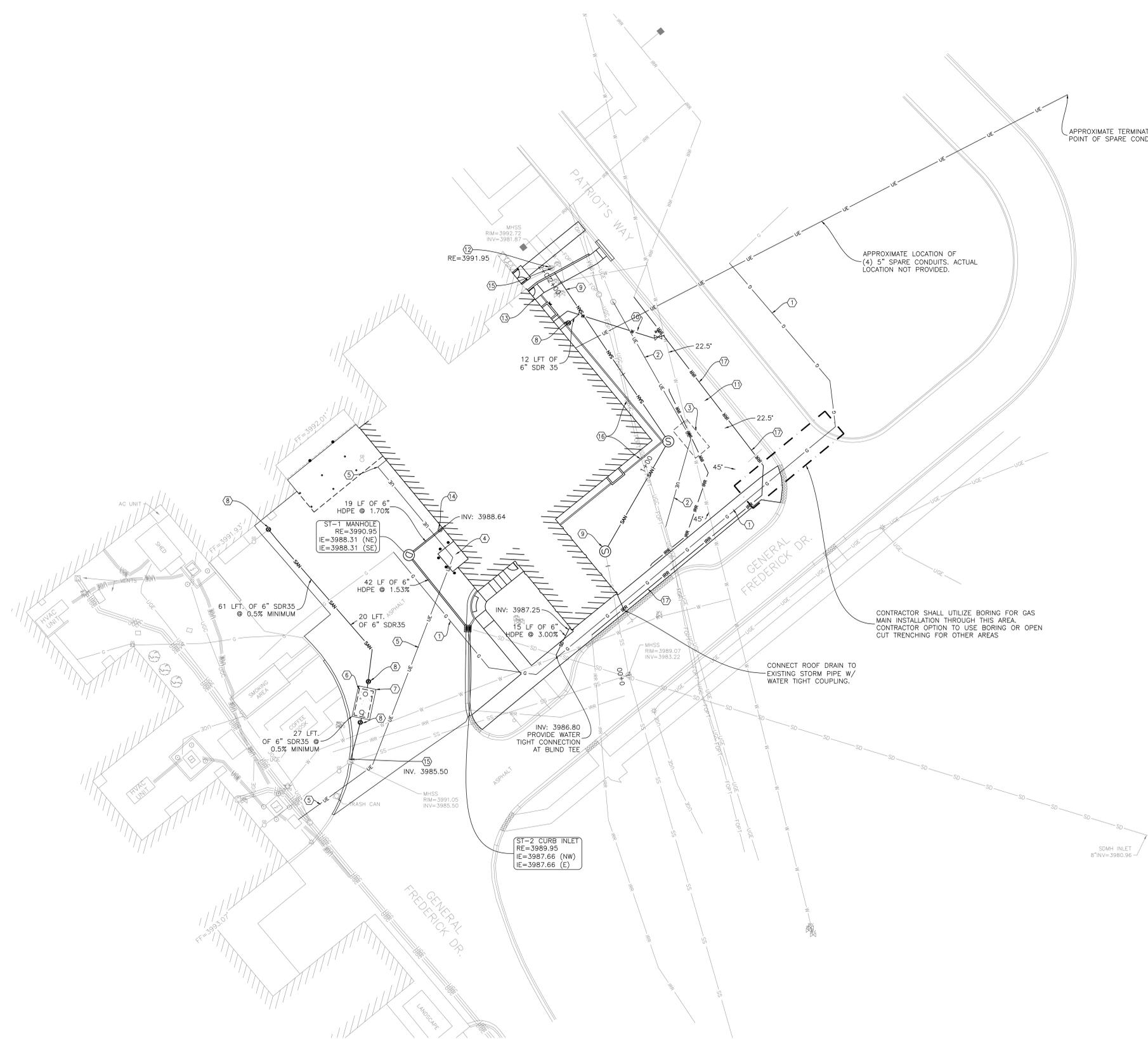
1. CONCRETE SHALL BE 3,000 PSI MIN.
2. CONCRETE FOR THRUST BLOCKING SHALL BE KEPT FAIRLY DRY, THUS MAKING THE CONCRETE WEDGE SHAPE MORE EASILY FORMED WITH THE WIDEST PART (BLOCKING AREA) AGAINST UNDISTURBED SOIL.
3. NO CONCRETE SHALL COVER ANY BOLTS OR GLANDS.
4. ALL FITTING AND ACCESSORIES TO BE WRAPPED WITH 10 MIL POLYETHYLENE PRIOR TO POURING BLOCKING.
5. VOLUME OF THRUST BLOCKING SHALL BE AS SHOWN ON THE THRUST BLOCKING SCHEDULE.
6. THRUST BLOCKING SHALL BE INSTALLED PER HELENA PUBLIC WORKS SPECIFICATIONS.



THRUST BLOCKING SCHEDULE

PIPE SIZE	90° BEND	45° BEND	22.5° BEND	1.25" BEND	TEE	PLUG
4"	8"	12"	8"	8"	6"	6"
6"	10"	12"	8"	8"	6"	6"
8"	15"	13"	10"	10"	8"	8"
10"	16"	14"	10"	12"	8"	10"
12"	20"	16"	12"	14"	8"	12"
14"	22"	18"	14"	16"	10"	14"
16"	26"	20"	16"	18"	12"	16"
20"	36"	26"	24"	18"	18"	24"
24"	48"	33"	30"	21"	18"	15"

SEE CU501 FOR MORE UTILITY DETAILS.



1 WATER MAIN THRUST BLOCKING

CONSULTANT Consultant: APOGEE CONSULTING GROUP 1151 KILDAIRE FARM ROAD, SUITE 120 CARY, NC 27511 TELE: 919-858-7420		ARCHITECT/ENGINEER OF RECORD A/E: GUIDON DESIGN, INC. 905 N CAPITOL AVE, SUITE 100 INDIANAPOLIS, IN 46204 TELE: 317-800-6388 KARI ALLEN		STAMP	Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs	Drawing Title SITE UTILITY PLAN Approved: ROY STEINER, COR/PE. ENGINEERING/FMS FORT HARRISON, MT.	Phase RECORD DRAWINGS FULLY SPRINKLERED	Project Title CONSTRUCT PRIMARY CARE MENTAL HEALTH INTEGRATION	Project Number 436-113 Contract Number VA259-17-C-0201	Location FORT HARRISON VAMC	Issue Date 07/13/2018	Checked CMB	Drawn DSM	Building Number 172 Drawing Number CU101
---	--	--	--	-------	--	---	---	--	---	--------------------------------	--------------------------	----------------	--------------	---

6/14/2021 3:04 PM
 F:\17_1032_VA_FORT_HARRISON - PRIMARY CARE MENTAL HEALTH INTEGRATION\2_DRAWINGS\2_CIVIL\17_1032-UTILITY.DWG