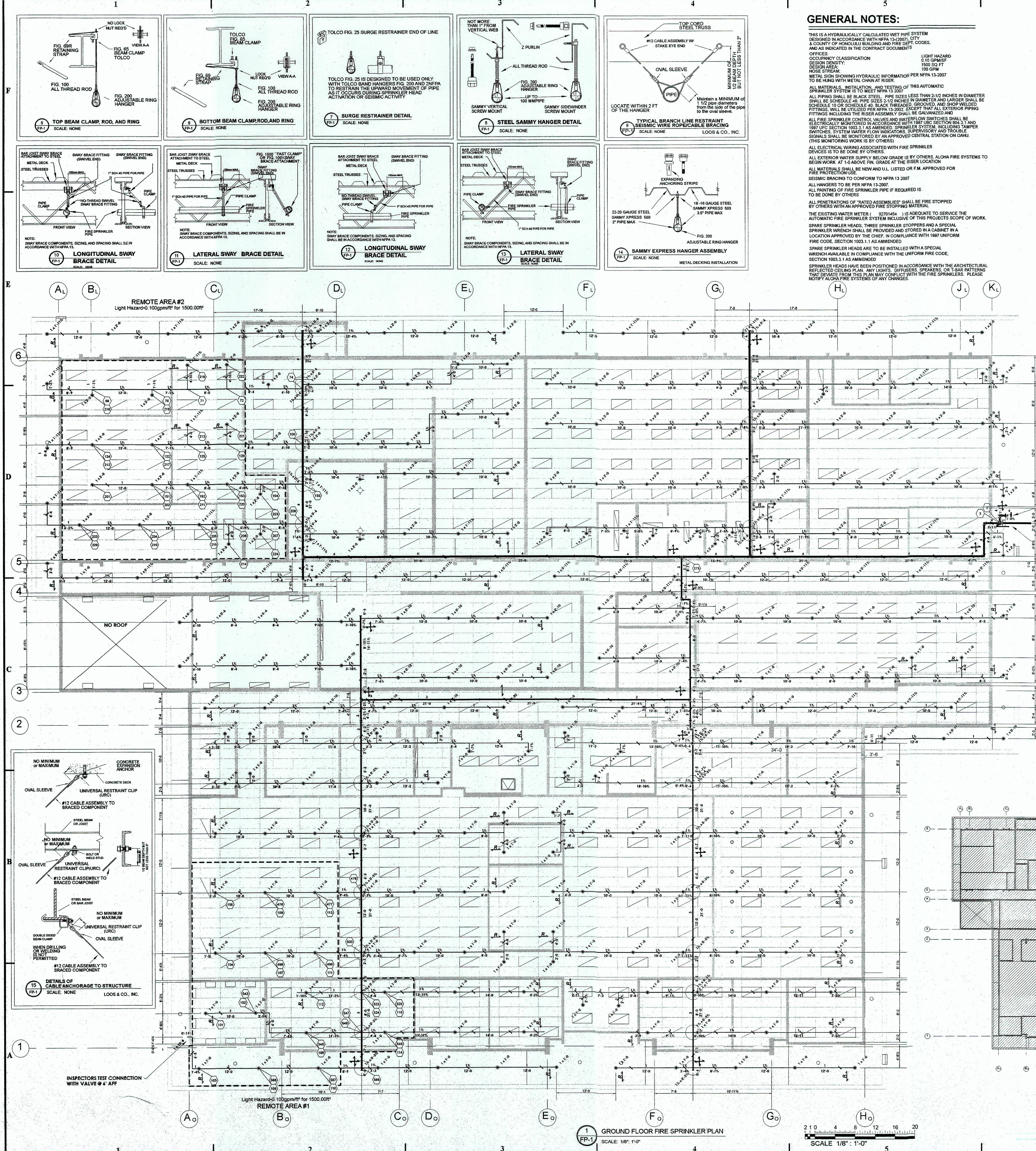




GENERAL NOTES:

THIS IS A HYDRAULICALLY CALCULATED WET PIPE SYSTEM DESIGNED IN ACCORDANCE WITH NFPA 13 (2007) CITY & COUNTY OF HONOLULU BUILDING AND FIRE DEPT. CODES, AND AS INDICATED IN THE CONTRACT DOCUMENTS.

OFFICE: LIGHT HAZARD
DESIGN: 1.0 GPM/FT
MOSE: 17.0 PSI
MOSE: 17.0 PSI

ALL MATERIALS, INSTALLATION, AND TESTING OF THIS AUTOMATIC SPRINKLER SYSTEM IS TO MEET NFPA 13 (2007).

ALL PIPING SHALL BE BLACK STEEL PIPE SIZES LESS THAN 2 1/2 INCHES IN DIAMETER SHALL BE SCHEDULE 40. PIPE SIZES 2 1/2 INCHES IN DIAMETER AND LARGER SHALL BE SCHEDULE 10 OR SCHEDULE 40 BLACK THREADED, GROOVED, AND SHOP WELDED FITTINGS SHALL BE UTILIZED PER NFPA 13 (2007). EXCEPT THAT ALL EXTERIOR PIPING FITTINGS INCLUDING THE RISER ASSEMBLY SHALL BE GALVANIZED AND ALL FIRE SPRINKLER CONTROL VALVES AND WATERFLOW SWITCHES SHALL BE ELECTRICALLY MONITORED IN ACCORDANCE WITH 1907 FIRE CODE SECTION 904.3.1 AND 1907 FIRE CODE SECTION 1003.3.1 AS AMENDED. SPRINKLER SYSTEM INCLUDING TAMPER SWITCHES, SYSTEM WATER FLOW INDICATOR, SUPERVISORY AND TROUBLE SIGNALS SHALL BE MONITORED BY AN APPROVED CENTRAL STATION ON OAHU. (THIS MONITORING WORK IS BY OTHERS)

ALL ELECTRICAL WIRING ASSOCIATED WITH FIRE SPRINKLER DEVICES IS TO BE DONE BY OTHERS.

ALL EXTERIOR WATER SUPPLY BELOW GRADE IS BY OTHERS. ALOHA FIRE SYSTEMS TO BEGIN WORK AT 1-0 ABOVE FIN. GRADE AT THE RISER LOCATION FOR FIRE PROTECTION USE.

ALL MATERIALS SHALL BE NEW AND U.L. LISTED OR F.M. APPROVED FOR FIRE PROTECTION USE.

SEISMIC BRACING TO CONFORM TO NFPA 13 (2007).

ALL HANGERS TO BE PER NFPA 13 (2007).

ALL PAINTING OF FIRE SPRINKLER PIPE IF REQUIRED IS TO BE DONE BY OTHERS.

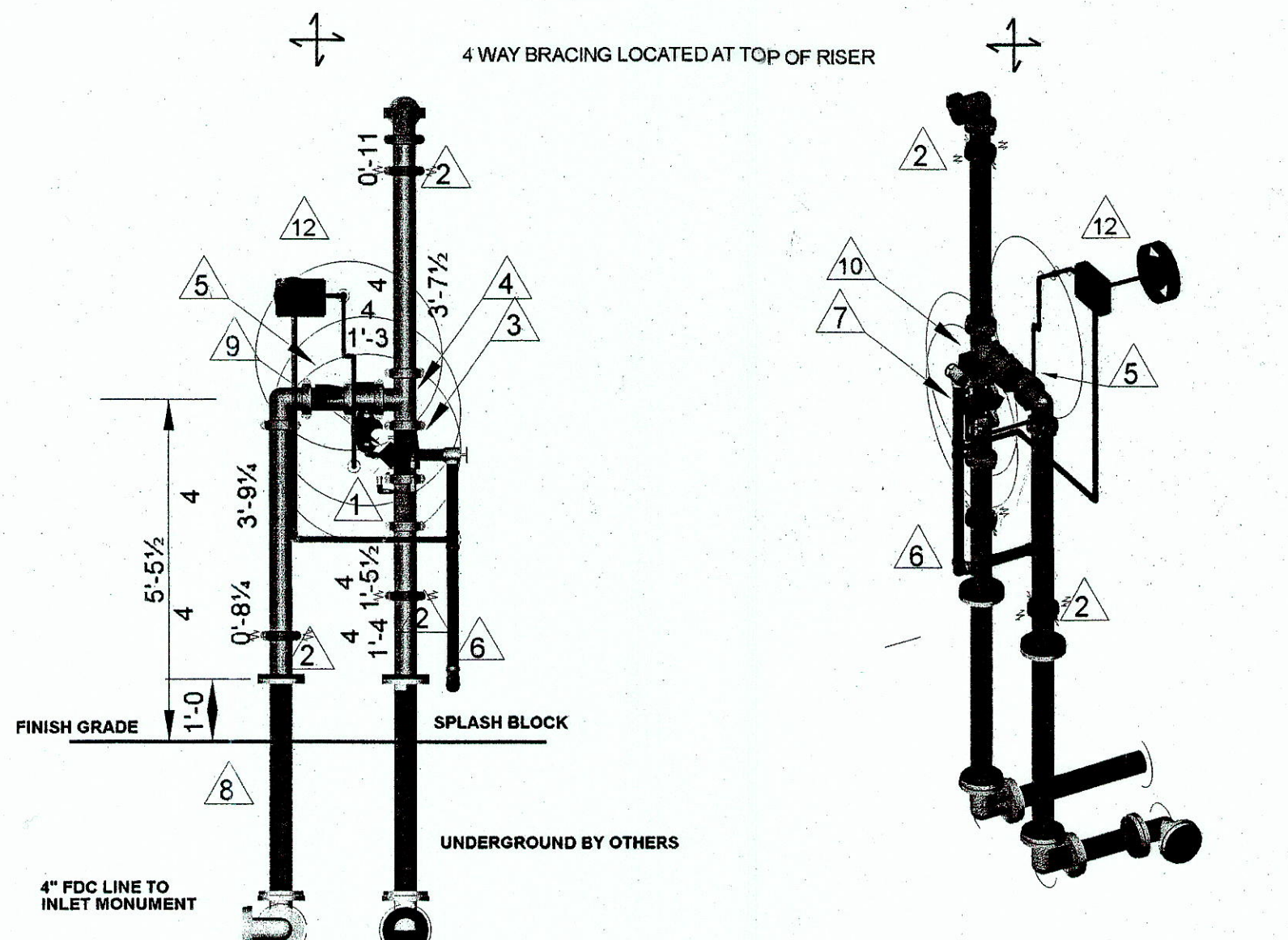
ALL PENETRATIONS OF "RATED ASSEMBLIES" SHALL BE FIRE STOPPED BY OTHERS WITH AN APPROVED FIRE STOPPING MATERIAL.

THE EXISTING WATER METER (1007044) IS LOCATED TO SERVICE THE AUTOMATIC FIRE SPRINKLER SYSTEM INCLUSIVE OF THIS PROJECTS SCOPE OF WORK.

SPRINKLER HEADS, THREE SPRINKLER STOPPERS AND A SPECIAL SPRINKLER WRENCH SHALL BE PROVIDED AND STORED IN A CABINET IN A LOCATION APPROVED BY THE CHIEF. IN COMPLIANCE WITH 1907 FIRE CODE SECTION 1003.1.1 AS AMENDED.

SPRINKLER HEADS ARE TO BE INSTALLED WITH A SPECIAL WRENCH AVAILABLE IN COMPLIANCE WITH THE 1907 FIRE CODE, SECTION 1003.1.1 AS AMENDED.

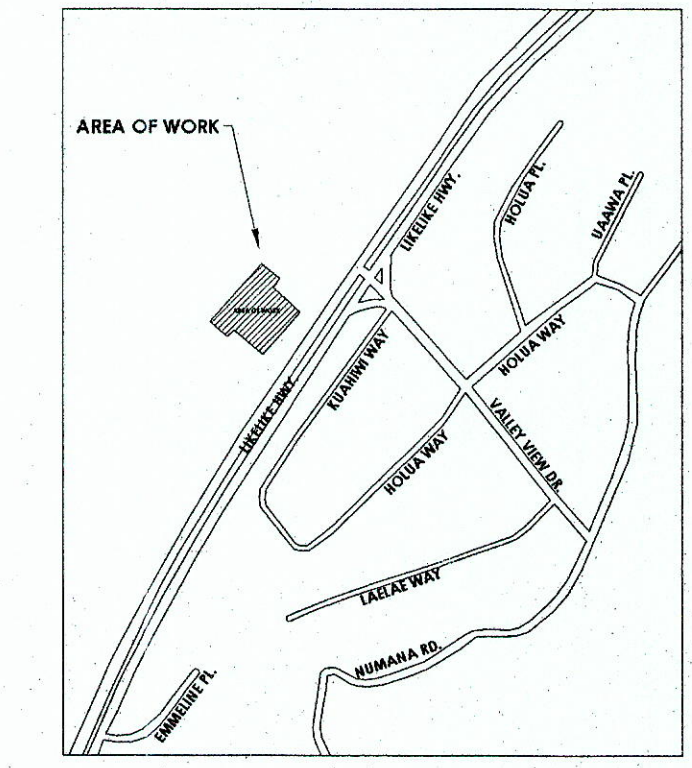
SPRINKLER HEADS HAVE BEEN POSITIONED IN ACCORDANCE WITH THE ARCHITECTURAL PLAN. EXISTING AND NEW WATER SUPPLY SHALL BE IN ACCORDANCE WITH THE ARCHITECTURAL PLAN. THIS PLAN MAY CONFLICT WITH THE FIRE SPRINKLER. PLEASE NOTIFY ALOHA FIRE SYSTEMS OF ANY CHANGES.



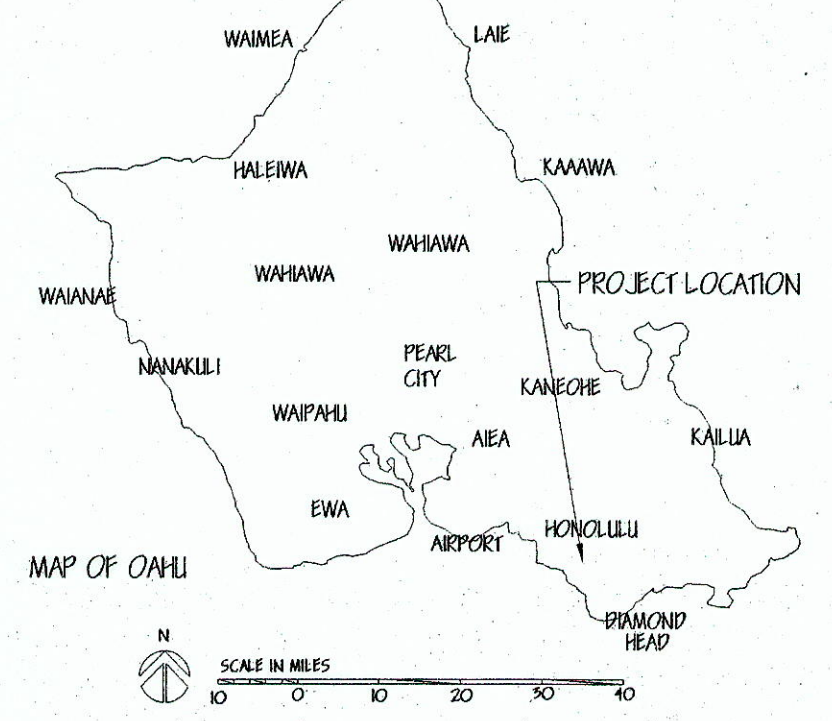
16 FIRE SPRINKLER RISER
SCALE: NONE

17 FIRE SPRINKLER RISER ISO
SCALE: NONE

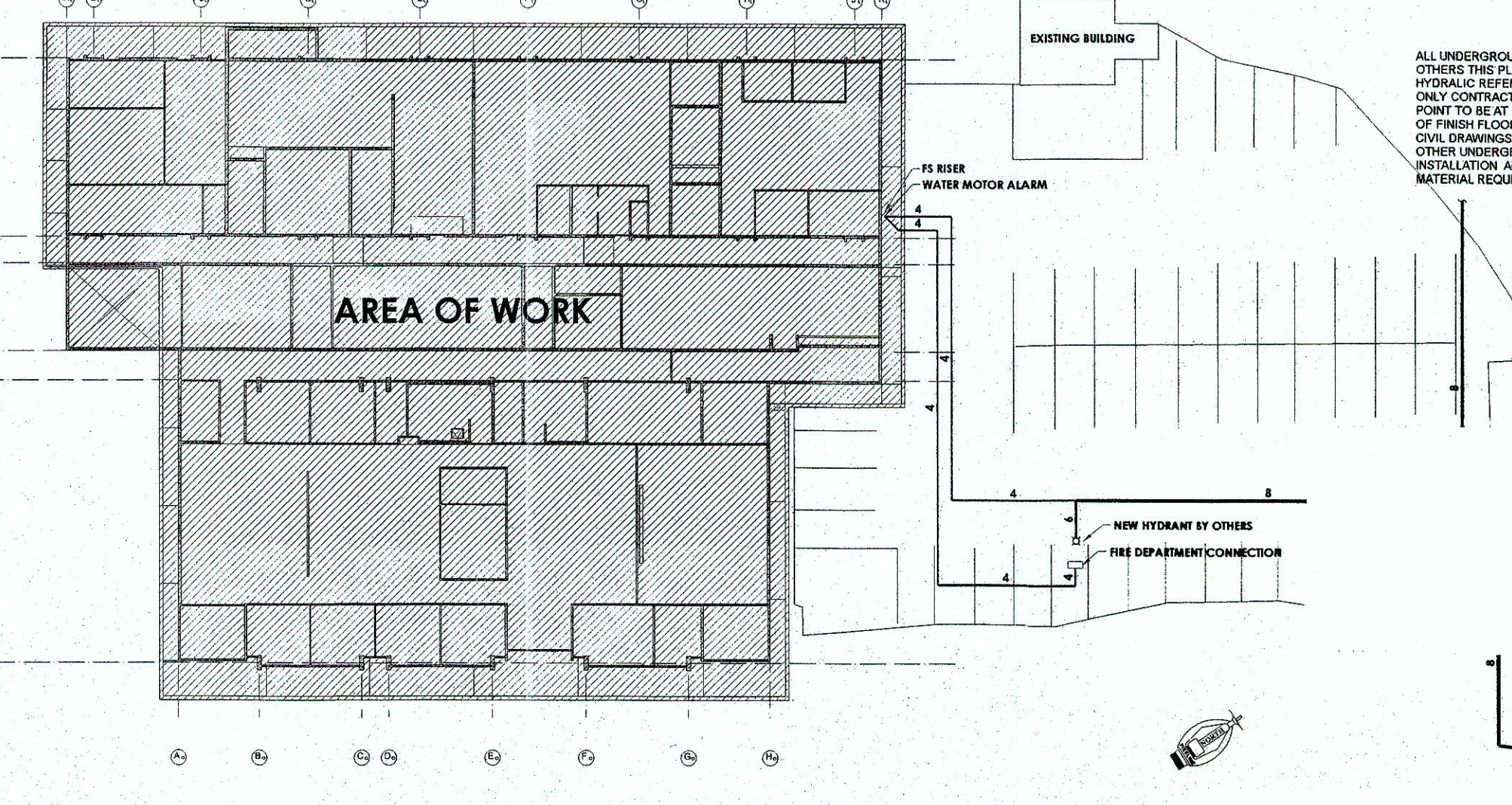
- 1 (GXG) 4" KENNEDY OS&Y WITH TAMPER SWITCH INSTALLED WITH CHAIN AND LOCK
- 2 FLEXIBLE GROOVED COUPLING
- 3 4" TYCO AV-300 AL VALVE (G x G) W/ VERTICAL TRIM KIT, W/ RETARD CHAMBER, 2" MAIN DRAIN PIPE MAIN DRAIN W/ GAL PIPE TO GANG DRAIN
- 4 4 GRV. TEE
- 5 4" MODEL CV-1F SWING CHECK VALVE
- 6 2" GANG DRAIN W/ GAL PIPE WITH SPLASH BLOCK
- 7 TYCO MODEL RETARD CHAMBER
- 8 FIRE DEPARTMENT CONNECTION LINE TO MONUMENT
- 9 PRESSURE GAUGE WITH 3-WAY VALVE (TYP)
- 10 PRESSURE SWITCH WATERFLOW POTTER MODEL WFSR-F
- 11 NOT USED
- 12 WATER MOTOR GONG TYCO MODEL



3 VICINITY MAP
SCALE: NONE



2 LOCATION MAP
SCALE: NONE



4 SITE PLAN
SCALE: NONE

FOR REFERENCE ONLY

WATER SUPPLY DATA
STATIC PRESSURE: 45 PSI
RESIDUAL PRESSURE: 20 PSI
FLOW AT RESIDUAL PRESSURE: 2000 GPM

ALOHA FIRE
87-1008 KULAUAPUNI STREET
WAIAE, HI 96792
PHONE: (808) 696-4116
LIC. C-24677

SYMBOL	DESCRIPTION
1	TYCO QUICK RESPONSE PENDANT TYP321
2	TYCO STANDARD RESPONSE UPRIGHT TYP151
3	TYCO STANDARD RESPONSE UPRIGHT TYP151
4	TYCO STANDARD RESPONSE UPRIGHT TYP151
5	TYCO STANDARD RESPONSE UPRIGHT TYP151
6	TYCO STANDARD RESPONSE UPRIGHT TYP151
7	TYCO STANDARD RESPONSE UPRIGHT TYP151
8	TYCO STANDARD RESPONSE UPRIGHT TYP151
9	TYCO STANDARD RESPONSE UPRIGHT TYP151
10	TYCO STANDARD RESPONSE UPRIGHT TYP151
11	TYCO STANDARD RESPONSE UPRIGHT TYP151
12	TYCO STANDARD RESPONSE UPRIGHT TYP151

PROJECT: MATERIALS TESTING AND RESEARCH FACILITY RENOVATION
PROJECT NO.: HW-1-08-06
DEPARTMENT OF TRANSPORTATION

SHEET: SITE PLAN, DETAIL AND NOTES
F5 DRAWINGS, GROUND FLOOR
FIRE SPRINKLER DRAWINGS

DATE: 10/1/2008
BY: R. MURRAY
SCALE: AS SHOWN
DATE: 10/1/2008