



ROOM NO.	ROOM NAME	SQ FT
1A	ENTRY VESTIBULE	338
2A	EXIT VESTIBULE	161
2B	EXIT VESTIBULE	270
3	CART RETURN	155
4	CASHIER OFFICE	228
5	CASH COUNTING	93
6A	CUSTOMER SERVICE OFFICE	93
7	CUSTOMER WAITING	74
8	CART STORAGE	491
10	MEN'S TOILET ROOM	128
11	WOMEN'S TOILET ROOM	142
12	STORE DIRECTOR	198
13	ADMIN. ENTRY VESTIBULE	60
14A	ADMIN. CORRIDOR	126
14B	ADMIN. CORRIDOR	143
15	ADMINISTRATION OPEN OFFICE	735
16A	BREAK AREA	411
16B	BREAK AREA	536
17	TRAINING	285
18	STORE ADMIN.	139
19	STORE MANAGER	93
20A	JANITOR	21
20B	JANITOR	56
20C	JANITOR	54
20D	JANITOR	56
20E	JANITOR	17
21A	VESTIBULE	395
21B	VESTIBULE	335
23	DAMAGED MERCH	208
23A	DAMAGED SALES	181
25	WOMEN'S LOCKER	110
26B	WOMEN'S TOILET ROOM	102
27B	MEN'S TOILET ROOM	102
28	MEN'S LOCKER	110
30	CONT./STOCK STORAGE	124
31A	CISIC	108
31B	COMM SUB HUB	23
31C	FIRE RISER	305
31D	ELEC. DIST.	209
31E	MECHANICAL	84
32	SENSITIVE STORAGE	154
34	MEDICAL FOOD INSPECTION	93
35	RECEIVING MANAGER	80
36A	RECEIVING/STAGING	11721
36B	CLASS IV MATERIAL STORAGE (INCL IN 36 AREA)	
38	M/E CHARGING AREA (INCL IN 38 AREA)	

38A	MASS DISPLAY AREA	964	
42	PRODUCE SALES (INCLUDED IN 69)		5450
43A	CHILL STORAGE GAS PRODUCE	378	
43B	CHILL STORAGE NON GAS PRODUCE	487	
44A	PROCESSING	487	
44B	AMBIENT STORAGE	403	
45	PRODUCE MANAGER	100	
46	GROCERY MANAGER	93	
55	MEAT PROCESSING	886	
56	MEAT WRAPPING	667	
57	MEAT MANAGER	134	
58	MEAT SALES AREA (INCLUDED IN 69)		2440
59	PRE-PACK, POULTRY & BULK MEAT STORAGE	1541	
66	DAIRY SALES AREA (INCLUDED IN 69)		1778
67	DAIRY COOLER	1146	
68	FROZEN FOOD STORAGE	1727	
68B	FROZEN SALES (INCLUDED IN 69)		4886
69	GENERAL SALES AREA	31173	
69A	GONDOLA SALES AREA (INCLUDED IN 69)		14518
70A	BAKERY SALES	420	
71A	BAKERY SERVICE	278	
72	BAKERY SERVICE	278	
73	DELI PREP.	362	
74	BAKERY PREP.	276	
75	DELI CHILL STORAGE	119	
76	BAKERY FREEZER	142	
80	BAGGER BREAK AREA	136	
81	CHECKOUT	3619	
82	QUEUEING	756	
84	VENDOR OFFICE	130	
97	SECT. OFFICE	115	
98C	ROOF STAIR	149	
99	FAMILY	46	

FIRE PROTECTION LEGEND

SYMBOL	DESCRIPTION
---	UNDERGROUND FIRE SERVICE
F	FIRE SPRINKLER PIPING, WET SYSTEM
FDC	FIRE SPRINKLER FDC LINE
D	FIRE SPRINKLER DRAIN LINE
ELBOW DOWN	ELBOW DOWN
ELBOW UP	ELBOW UP
TEE DOWN	TEE DOWN
TEE UP	TEE UP
CHECK VALVE	CHECK VALVE
INDICATING BUTTERFLY VALVE	INDICATING BUTTERFLY VALVE
DOUBLE CHECK VALVE ASSEMBLY	DOUBLE CHECK VALVE ASSEMBLY
TAMPER SWITCH	TAMPER SWITCH
FLOW SWITCH	FLOW SWITCH
FIRE DEPARTMENT CONNECTION, SIAMOSE	FIRE DEPARTMENT CONNECTION, SIAMOSE
FIRE DEPARTMENT CONNECTION, REMOTE	FIRE DEPARTMENT CONNECTION, REMOTE
HORN/STROBE ASSEMBLY	HORN/STROBE ASSEMBLY
WALL MOUNTED POST INDICATOR	WALL MOUNTED POST INDICATOR
FIRE SPRINKLER RISER	FIRE SPRINKLER RISER

FIRE PROTECTION ABBREVIATIONS

FL	FLANGED
GALV	GALVANIZED
GR	GROOVED
MJ	MECHANICAL JOINT
TH	THREADED
SF	SQUARE FEET
FDC	FIRE DEPARTMENT CONNECTION
GOE	GROOVE ONE END
TOE	THREAD ONE END

ITEMS OF WORK

NO.	DESCRIPTION	STATUS
1	FIRE PUMP, REDUCED PRESSURE BACKFLOW ASSEMBLY AND SPRINKLER SYSTEM RISERS.	•
2	SPRINKLE ABOVE OVERHEAD DOOR.	•
3	DRY PENDANT SPRINKLERS IN FREEZER / COOLERS. SEE DETAIL SHEET 1.	•
4	DRY SPRINKLER SYSTEMS AT CANOPIES, ENTRY AND CART STORAGE.	•
5	SPRINKLE KIOSK (TYPICAL OF ALL).	•

HAZARD CLASSIFICATION SCHEDULE

AREA	SYMBOL	HAZARD	DESIGN DENSITY	DESIGN AREA	HOSE STREAM	NOTES
SALES	OH2	ORDINARY GROUP 2	0.20 GPM/SF	3000	500	1, 4
STORAGE / RECEIVING	CIV	CLASS IV COMMODITIES PALLETIZED ON RACKS UNDER 12'-0"	0.40 GPM/SF	3000	750	1, 2, 3

NOTES:

- HYDRAULIC CALC. SHALL VERIFY FLOW & PRESSURE REQUIREMENTS OF THE MOST DEMANDING AREA.
- STORAGE OF CLASS IV COMMODITY TO 12'-0" WITH 8'-0" AISLES, DOUBLE ROW RACKS AND NON-ENCAPSULATED.
- CLASS IV COMMODITY (UNDER 12'-0") AND GROUP A PALLETIZED PLASTICS (UNDER 6'-0").
- INCREASE DRY SYSTEM DESIGN AREA BY 30 %.

FIRE HYDRANT	BLDG LOCATION	STATIC KPA	RESIDUAL KPA	RESIDUAL FLOW (L/S)	FLOW AT 138KPA (20 PSI)	DATE
6-4	BUILDING # NEW	378 KPA	207 KPA	99 L/S	248 L/S	2-23-2007
		55 PSI	30 PSI	1572 GPM	3930 GPM	

NOTES:

- FTH #6-4 IS LOCATED AT THE SOUTHWEST CORNER OF NEW BUILDING SITE, ACROSS UTAH AVENUE.
- A NEW FLOW TEST WILL BE REQUIRED FOR SHOP DRAWING HYDRAULIC CALCULATIONS.

- FIRE SPRINKLER SYSTEM NOTES**
- FIRE PROTECTION SYSTEM TO COMPLY WITH NFPA 13 (2010), UNIFIED FACILITIES CRITERIA 3-800.01 FIRE PROTECTION ENGINEERING FOR FACILITIES', DECA DESIGN CRITERIA HANDBOOK, AND ALL APPLICABLE STATE CODES.
 - OBTAIN ALL PERMITS AND LICENSES AS REQUIRED.
 - FINAL INSPECTION AND APPROVAL BY BASE FIRE MARSHAL AND NAVFAC FIRE PROTECTION ENGINEERING DIVISION.
 - COORDINATE INSTALLATION WITH ALL OTHER TRADES AND PROVIDE ADDITIONAL OFFSETS ROUTING, ETC AS REQUIRED.
 - PIPE SHALL BE REAMED AND CLEANED BEFORE ASSEMBLY.
 - ABOVE GROUND 1" THROUGH 2" PIPE TO BE SCHEDULE 40 WITH CAST IRON SCREWED FITTING. ABOVE GROUND 2-1/2" AND LARGER PIPE SHALL BE SCHEDULE 40, ROLL GROOVED WITH GROOVED FITTINGS.
 - ALL DRY SYSTEMS SHALL BE GALVANIZED PIPE & FITTINGS.
 - VERIFY THROUGH COMPUTER HYDRAULIC CALCULATIONS THAT ALL AREAS WILL PROVIDE THE FLOW AND PRESSURE REQUIREMENTS FOR THE HAZARD SPECIFIED. MANUAL CALCULATIONS ARE NOT ACCEPTABLE. COMPUTER HYDRAULIC CALCULATIONS SHALL BE SUBMITTED TO THE NAVFAC FIRE PROTECTION ENGINEERING DIVISION FOR REVIEW AND APPROVAL.
 - CONTACT NAVFAC MID-ATLANTIC FIRE AND EMERGENCY SERVICES WHEN WORKING ON THE FIRE SPRINKLER SYSTEM. THE SYSTEM MUST BE BROUGHT BACK INTO FULL SERVICE AT THE END OF EACH DAY.
 - EXAMINE THE COMPLETE PLAN SET TO GAIN FULL UNDERSTANDING OF THE WORK REQUIRED.
 - SYSTEM TESTING IS REQUIRED TO BE WITNESSED BY THE NAVFAC FIRE PROTECTION ENGINEERING DIVISION AND THE BASE FIRE DEPARTMENT.
 - SPRINKLERS IN HARD OR LAY-IN CEILINGS WILL BE SEMI-RECESSED OR CONCEALED PENDANTS WITH WHITE FINISH.

TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, BASED ON AND LIMITED TO OUR NORMAL FUNCTIONS PERFORMED UNDER OUR CONTRACT WITH THE GOVERNMENT, IT IS OUR PROFESSIONAL OPINION THAT THIS PROJECT IS DESIGNED IN ACCORDANCE WITH APPLICABLE DOD REGULATIONS.

SYM.	D.O. NO.	ACTION	DATE	DESCRIPTION OF REVISION

DESIGNED BY: DK
DRAWN BY: WVS
REVIEWED BY: DK

DEFENSE COMMISSARY AGENCY
DIRECTORATE OF PERFORMANCE AND POLICY
FACILITIES PROGRAMMING AND PLANNING DIVISION
FORT LEE, VIRGINIA
FACILITIES CONSTRUCTION AND SUSTAINMENT DIVISION
LACKLAND AFB, TEXAS

DESIGN-BUILD NEW COMMISSARY RFP DOCUMENTS
FIRE PROTECTION FLOOR PLAN
FORT POLK LA

SUBMITTED BY: CTA ARCHITECTS ENGINEERS
ENGINEER: CTA ARCHITECTS ENGINEERS

SOL. NO. DE19M01
PROJECT NO. DE19M01
DRAWING NUMBER FP1.1
DATE: JANUARY 3, 2012
SEQUENCE NO. 1 OF 1
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NOT FOR CONSTRUCTION - PRELIMINARY DESIGN