PROTECTION CRITERIA LEGEND

OCCUPANCY CLASSIFICATION	DISCHARGE PRESSURE (# OPERATING SPRINKLERS - DESIGN AREA)	HOSE ALLOWANCE (GPM)	MAXIMUM SPRINKLER SPACING (SQ FT)	DESIGN BASIS
SALES FLOOR (RNC - OPTION 2B)	25 PSI (2 AS-2S/1L) 10 PSI (12 AS-4S/3L)	250	140	CLASS I-IV ON SHELF TO 12'-0" (25'-0" CEILING HEIGHT), 5'-0" AISLES: UL LLC TECHNICAL REPORT PROJECT 4788122552, NC27954 - TABLE 2 SUMMARY OF TESTS, TEST GONDOLA 10041702
INTERIOR GARDEN CENTER (SH - OPTION 2A)	30 PSI (2 AS-2S/1L) 21 PSI (8 AS-4S/2L) 15 PSI (12 AS-4S/3L)	250	140	CLASS I-IV ON SHELF TO 12'-0" (25'-0" CEILING HEIGHT), 5'-0" AISLES: UL LLC TECHNICAL REPORT PROJECT 4788122552, NC27954 - TABLE 2 SUMMARY OF TESTS, TEST SRR 09151702
STOCKROOM -GM/GR (SL - OPTION 4)	12 PSI (2 AS-2S/1L) 7 PSI (12 AS-4S/3L)	250	100	CLASS I-IV RACK STORAGE TO 15'-0" (18'-0" CEILING HEIGHT), 4'-0"/7'-6" AISLES: UL LLC TECHNICAL REPORT PROJECT 4788122552, NC27954 - TABLE 2 SUMMARY OF TESTS, TESTS SRR 04191702 / DRR 09191702
STOCKROOM -GM/GR (SL - OPTION 4)	12 PSI (2 AS-2S/1L) 7 PSI (12 AS-4S/3L)	250	100	CLASS I-IV RACK STORAGE TO 12'-0" (18'-0" CEILING HEIGHT), 0'-6" AISLES: UL LLC TECHNICAL REPORT PROJECT 4788122552, NC27954 - TABLE 2 SUMMARY OF TESTS, TEST MRR 09211702
STOCKROOM -GM/GR (SL - OPTION 4)	12 PSI (2 AS-2S/1L) 7 PSI (12 AS-4S/3L)	250	100	CLASS I-IV RACK STORAGE TO 15'-0" (22'-0" CEILING HEIGHT), 7'-6" AISLES: UL LLC TECHNICAL REPORT PROJECT 4788122552, NC27954 - TABLE 2 SUMMARY OF TESTS, TEST DRR 09281702
PICKUP TOWER (AUTOMATED STORAGE)	45/ENTIRE AREA	500	100	CLASS I-IV TO 16'-0", NONENCAPSULATED; NFPA 13: FIGURE 16.2.1.3.2(d) CURVE G. FIGURE 16.2.1.3.4.1, HIGH TEMP SPRINKLER; OWNER ELECTED DENSITY
COOLERS/FREEZERS	EXISTING	EXISTING	130	EXISTING PROTECTION CRITERIA
MOTHER'S ROOM/ELECTRICAL ROOM (MISCELLANEOUS STORAGE)	0.20/1500 SQ FT	250	130	CLASS I-IV TO 5'-0"; NFPA 13:TABLE 13.2.1
PICKUP STORAGE	EXISTING	EXISTING	130	MATCH EXISTING DESIGN CRITERIA
BREAKROOMS	EXISTING	EXISTING	225	MATCH EXISTING DESIGN CRITERIA

RC = RETAIL CEILING/RNC = RETAIL NO CEILING
SL = STORAGE LOW/SH = STORAGE HIGH
REFERENCE SPRINKLER PLANS AND SPRINKLER SYMBOL LEGEND FOR SPRINKLERS NECESSARY TO MEET THE DESIGN REQUIREMENTS

SRR = SINGLE ROW RACK
DRR = DOUBLE ROW RACK
MRR = MULTIPLE ROW RACK

KEYNOTES

13.901 COORDINATE SPRINKLER PROTECTION PER REMOVAL, RELOCATION AND/OR ADDITION OF WALLS AND/OR CEILINGS. WHERE NECESSARY, REMOVE EXISTING SPRINKLER(S) AND ASSOCIATED PIPING. CAP OUTLETS NOT INTENDED FOR REUSE. WHERE NEW SPRINKLER(S) ARE REQUIRED WITHIN THE SAME COMPARTMENT AS EXISTING TO REMAIN SPRINKLERS, NEW SPRINKLER(S) SHALL MATCH EXISTING SPRINKLER TYPE, K-FACTOR, TEMPERATURE RATING AND FINISH. WHERE APPLICABLE, ALIGN NEW SPRINKLERS WITH EXISTING TO REMAIN SPRINKLERS, AND COORDINATE WITH NEW AND EXISTING EQUIPMENT AND WALLS TO MEET NFPA 13 SPACING REQUIREMENTS. NOT MORE THAN ONE SPRINKLER SHALL BE SUPPLIED BY A 1" PIPE OR CONNECTION.

13.920 EXISTING SPRINKLERS AND BRANCHLINES TO REMAIN.

13.923 REMOVE EXISTING PENDENT SPRINKLER AND PLUG ALL OUTLETS NOT INTENDED FOR REUSE. PROVIDE NEW UPRIGHT SPRINKLERS AT THIS LOCATION. ALIGN WITH EXISTING SPRINKLERS AND COORDINATE WITH NEW AND EXISTING EQUIPMENT AND WALLS TO MEET NFPA 13 SPACING REQUIREMENTS.

13.943 PROVIDE ALL LISTED PROTECTIVE GUARDS ON ALL EXPOSED HORIZONTAL SIDEWALL SPRINKLERS PER NFPA 13 AND WALMART STANDARDS. REF 5-FP3.

13.946 REPLACE MANUFACTURER-LISTED COVER PLATES IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.

13.946 DO NOT ROUTE SPRINKLER PIPING ABOVE ELECTRICAL PANELS PER NATIONAL ELECTRICAL CODE

13.951 PROVIDE NEW MAIN AS SHOWN. LOCATE MAIN ABOVE THE BOTTOM CHORD OF THE JOIST(S). FIELD VERIFY EXACT ROUTE THROUGH EXISTING BUILDING. COORDINATE WITH ALL NEW AND EXISTING EQUIPMENT AND WALLS.

13.956 PROVIDE NEW BRANCHLINES IN THIS AREA. FIELD VERIFY EXACT ROUTE THROUGH EXISTING BUILDING.

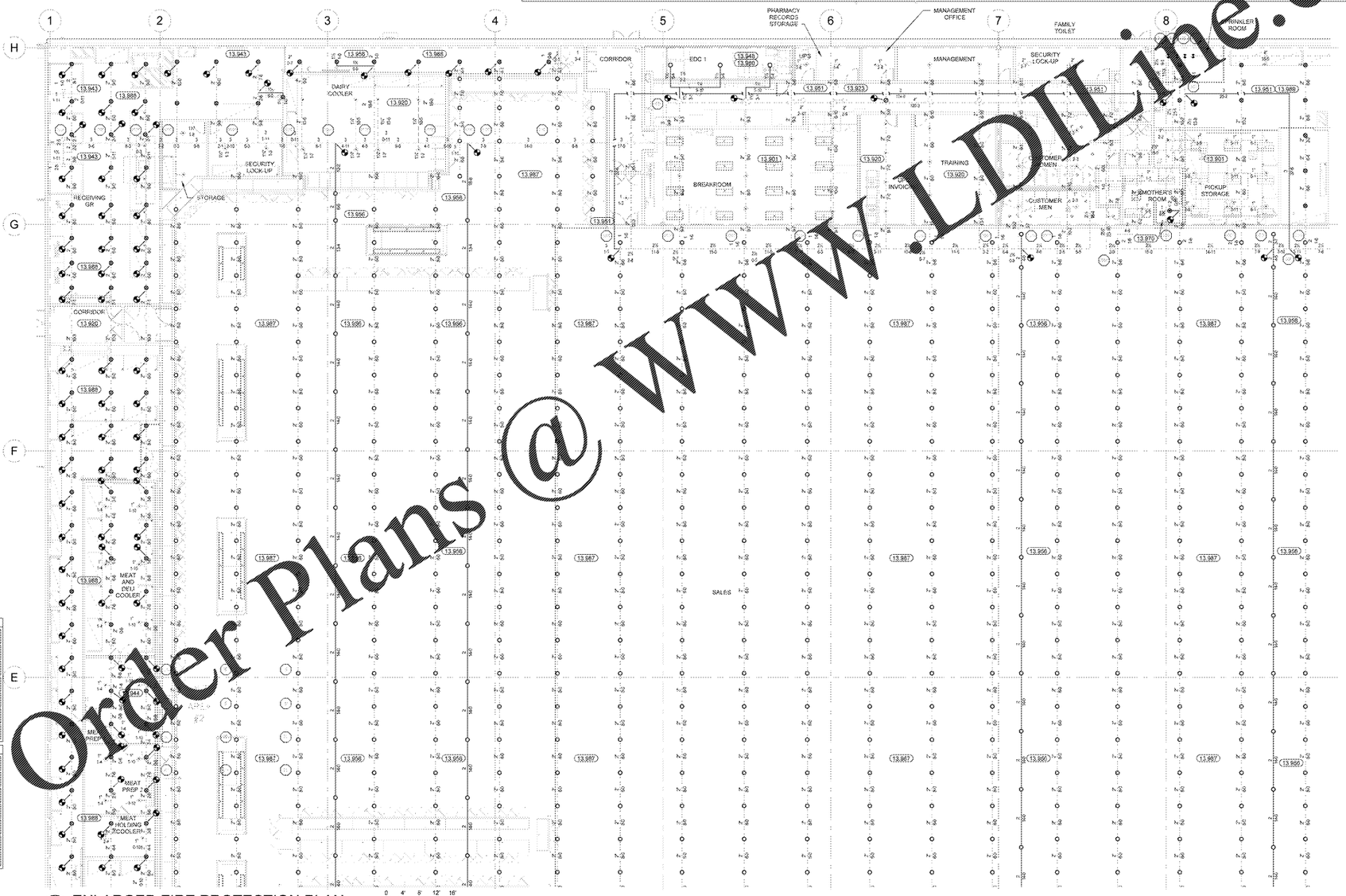
13.970 PROVIDE NEW PENDENT SPRINKLERS IN THIS AREA. CONNECT TO EXISTING SPRINKLER PIPING. NOT MORE THAN ONE SPRINKLER SHALL BE SUPPLIED BY A 1" PIPE OR CONNECTION. EXISTING UPRIGHT SPRINKLER PROTECTION, WHERE PROVIDED AT THE CEILING/ROOF DECK LEVEL, TO REMAIN UNLESS NOTED OTHERWISE.

13.980 PROVIDE NEW UPRIGHT SPRINKLERS AS SHOWN. ALIGN WITH EXISTING SPRINKLERS AND COORDINATE WITH NEW AND EXISTING EQUIPMENT AND WALLS TO MEET NFPA 13 SPACING REQUIREMENTS.

13.987 REPLACE EXISTING 10" UPRIGHT SPRINKLERS WITH TYCO TY5831 11.2K UPRIGHT SPRINKLERS. REFERENCE FP1 SPRINKLER SYMBOL LEGEND FOR SPECIFIC SPRINKLER TO BE INSTALLED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE THE NECESSARY FITTING(S) WHERE NEW SPRINKLERS DO NOT FIT THE EXISTING OUTLETS.

13.988 REPLACE EXISTING 10" UPRIGHT SPRINKLERS WITH TYCO TY7156 16.8K UPRIGHT SPRINKLERS. REFERENCE FP1 SPRINKLER SYMBOL LEGEND FOR SPECIFIC SPRINKLER TO BE INSTALLED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE THE NECESSARY FITTING(S) WHERE NEW SPRINKLERS DO NOT FIT THE EXISTING OUTLETS.

13.989 REPLACE EXISTING 10" UPRIGHT SPRINKLERS WITH TYCO TY7156 16.8K UPRIGHT SPRINKLERS. REFERENCE FP1 SPRINKLER SYMBOL LEGEND FOR SPECIFIC SPRINKLER TO BE INSTALLED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE THE NECESSARY FITTING(S) WHERE NEW SPRINKLERS DO NOT FIT THE EXISTING OUTLETS.



HYDRAULIC DESIGN	
SYSTEM # 1 REMOTE AREA # 2	SALES
SPRINKLERS CALCULATED	12 SPRINKLERS
SPRINKLER PRESSURE	10 PSI
HOSE ALLOWANCE	250 GPM
SYSTEM FLOW DEMAND @ SRC	679 GPM
SYSTEM PRESSURE DEMAND @ SRC	50.9 PSI
SYSTEM SAFETY FACTOR	27.9 PSI

HYDRAULIC DESIGN	
SYSTEM # 1 REMOTE AREA # 2	SALES
SPRINKLERS CALCULATED	2 SPRINKLERS
SPRINKLER PRESSURE	25 PSI
HOSE ALLOWANCE	250 GPM
SYSTEM FLOW DEMAND @ SRC	382 GPM
SYSTEM PRESSURE DEMAND @ SRC	43.5 PSI
SYSTEM SAFETY FACTOR	36.1 PSI

1 ENLARGED FIRE PROTECTION PLAN
3/32" = 1'-0"

SCALE: 3/32"=1'-0"

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT THEMSELF WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE

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STIPULATION FOR REUSE

CONSULTANTS
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ARCHITECTURAL
SC CERTIFICATE NO. C01972
EXPIRES 3/31/2021

Walmart
CAMDEN, SC
STORE NO. 0634-236
2993/30654 PROTO: 172
2020 GENERAL REMODEL
JOB NUMBER:

ISSUE BLOCK

CHECKED BY:	NAW/MJS
DRAWN BY:	NM
PROTO CYCLE:	10/25/19
DOCUMENT DATE:	12/18/19

NOT FOR CONSTRUCTION

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
HENDERSON ENGINEERS, INC No. CO1972

ENLARGED FIRE SPRINKLER PLAN

SHEET
FP2.1

JAMES E. COOPER