| HYDRAULIC DESIGN | |
|---|---|
| SYSTEM # 3 REMOTE AREA # C | SALES FLOOR |
| SPRINKLERS CALCULATED | 2 SPRINKLERS |
| SPRINKLER PRESSURE | 25 PSI |
| HOSE ALLOWANCE | 250 GPM |
| SYSTEM FLOW DEMAND @ SRC | 362 GPM |
| SYSTEM PRESSURE DEMAND @ SRC | 40.4 PSI |
| SYSTEM SAFETY FACTOR | 18.6 PSI |

| HYDRAULIC DESIGN | |
|---|---|
| SYSTEM # 3 REMOTE AREA # C | SALES FLOOR |
| SPRINKLERS CALCULATED | 12 SPRINKLERS |
| SPRINKLER PRESSURE | 10 PSI |
| HOSE ALLOWANCE | 250 GPM |
| SYSTEM FLOW DEMAND @ SRC | 677.7 GPM |
| SYSTEM PRESSURE DEMAND @ SRC | 34.4 PSI |
| SYSTEM SAFETY FACTOR | 22.8 PSI |

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

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

## 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.

13.910 REMOVE EXISTING PENDENT SPRINKLER AND ASSOCIATED PIPING. CAP REMAINING OUTLETS NOT INTENDED FOR REUSE. REF FP1 FOR NEW WORK IN THIS AREA.

13.920 EXISTING SPRINKLERS AND BRANCHLINES TO REMAIN.

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

13.970 PROVIDE NEW PENDENT SPRINKLERS IN THIS AREA. CONNECT TO EXISTING SPRINKLER PIPE. 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.

13.978 PROVIDE NEW DRY CONCEALED PENDENT SPRINKLERS AS SHOWN AND CONNECT TO EXISTING OVERHEAD SYSTEM. REF 4-FP3. COORDINATE WITH LOCATION OF LIGHTS AND EVAPORATOR UNITS. NOT MORE THAN ONE SPRINKLER SHALL BE SUPPLIED BY A 1" PIPE OR CONNECTION. REF 5-FP3. EXISTING CEILING LEVEL SPRINKLER PROTECTION SHALL REMAIN. ADDITIONAL SPRINKLERS MAY BE REQUIRED AT NO ADDITIONAL COST TO OWNER.

13.987 REPLACE EXISTING ½" UPRIGHT SPRINKLERS WITH TYCO TYSI51 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 ½" UPRIGHT SPRINKLERS WITH TYCO TY7158 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 # 4 REMOTE AREA # E | STOCKROOM |
| SPRINKLERS CALCULATED | 2 SPRINKLERS |
| SPRINKLER PRESSURE | 12 PSI |
| HOSE ALLOWANCE | 250 GPM |
| SYSTEM FLOW DEMAND @ SRC | 366.4 GPM |
| SYSTEM PRESSURE DEMAND @ SRC | 24.2 PSI |
| SYSTEM SAFETY FACTOR | 34.9 PSI |

| HYDRAULIC DESIGN | |
|---|---|
| SYSTEM # 4 REMOTE AREA # E | STOCKROOM |
| SPRINKLERS CALCULATED | 12 SPRINKLERS |
| SPRINKLER PRESSURE | 7 PSI |
| HOSE ALLOWANCE | 250 GPM |
| SYSTEM FLOW DEMAND @ SRC | 785.2 GPM |
| SYSTEM PRESSURE DEMAND @ SRC | 27.5 PSI |
| SYSTEM SAFETY FACTOR | 28.9 PSI |

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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CONSULTANTS

HENDERSON ENGINEERS
6000 LOMBARDO CENTER, SUITE 200
SEVEN HILLS, OHIO 44131
TEL 216-447-1500 FAX 216-447-2001
WWW.HENDERSONENGINEERS.COM
OH CORPORATION 00-0000
AL CORPORATION 001-CA-0585
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| DOCUMENT DATE: | 03/01/21 |

ALABAMA LICENSED No. 33736 PROFESSIONAL ENGINEER CHRISTOPHER J. CULP
03/30/2021

ENLARGED FIRE SPRINKLER PLAN

SHEET: FP2.3

CHRISTOPHER J. CULP