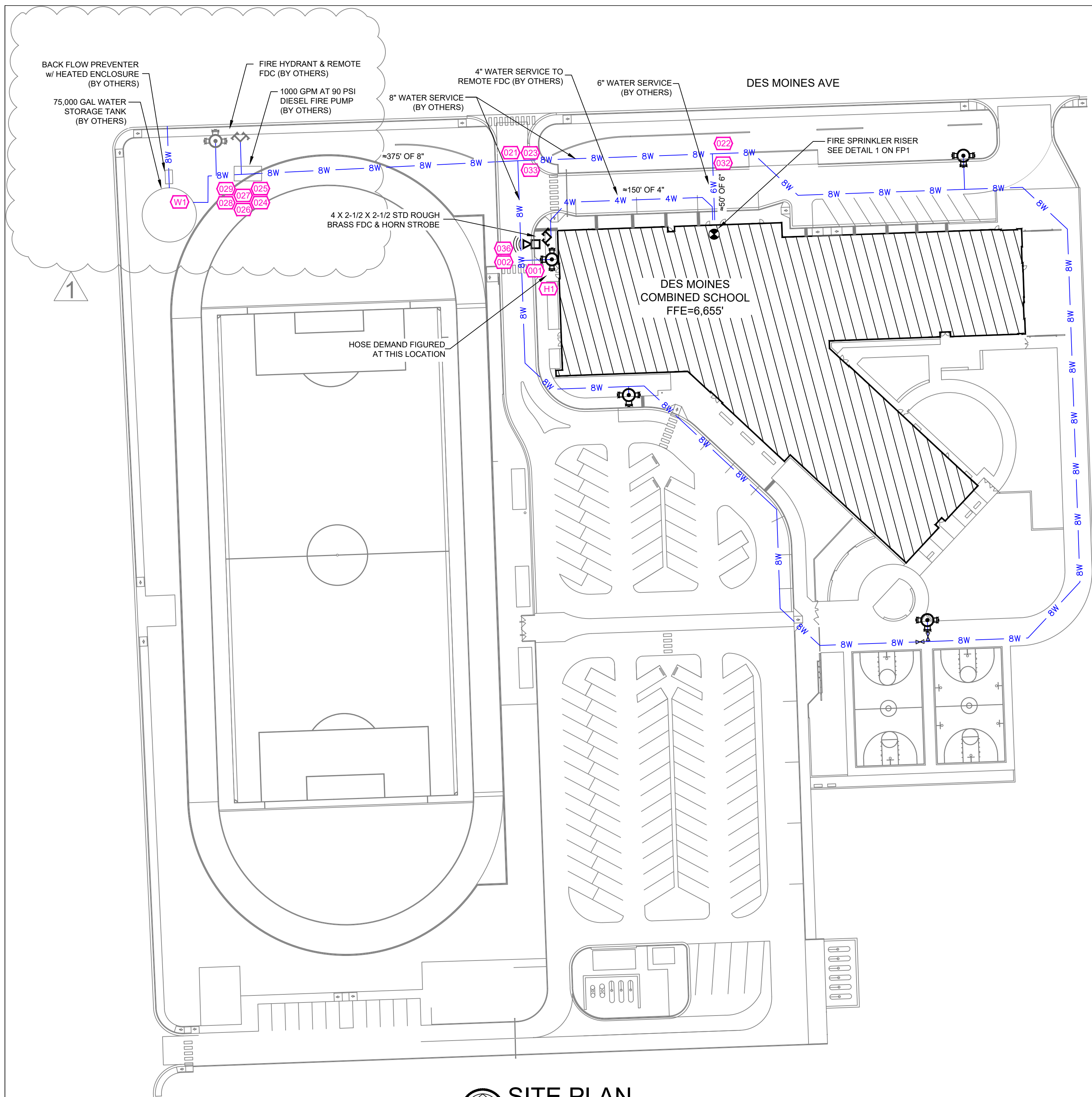




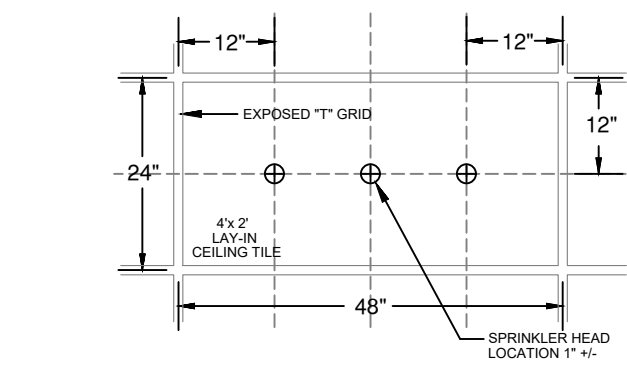
**SITE PLAN**  
SCALE: 1" = 50'-0"

#### GENERAL NOTES

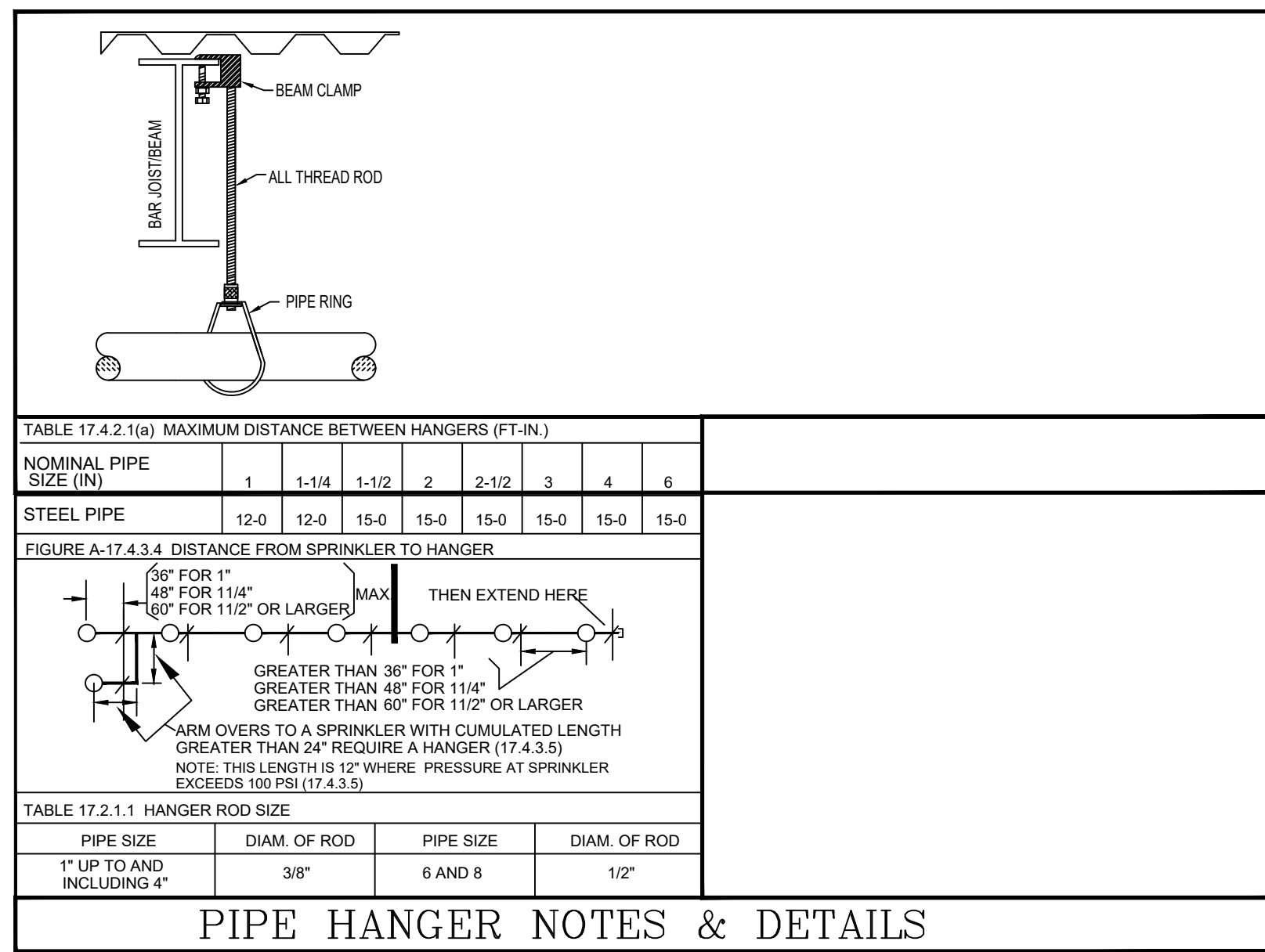
- INTERNATIONAL BUILDING CODE (2022)
- OCCUPANCY: E-EDUCATIONAL
- TYPE OF CONSTRUCTION: TYPE II-B (SPRINKLER)
- SPRINKLER AREAS (APPROXIMATE - SEE ARCHITECTURAL PLANS FOR ACTUAL)
- SCHOOL = 45,261 S.F.
- INSTALLATION STANDARDS: SPRINKLER SYSTEM DESIGNED AND INSTALLED PER NFPA-13 (2019)
- SPRINKLER PIPE TYPES:
  - WET
  - 1" BRANCH LINES TO BE BLK SCHEDULE 40 PIPING WITH THREADED FITTINGS
  - 1-1/2" BRANCH LINES TO BE BLK SCHEDULE 10 PIPING WITH GROOVED FITTINGS
  - 2-1/2" THROUGH 3" MAIN LINES TO BE BLK SCHEDULE 10 PIPING WITH GROOVED FITTINGS
- DESIGN CRITERIA:
  - WELDING, MECHANICS, & WOOD SHOPS INCLUDING THEIR CANOPIES ARE DESIGNED TO ORDINARY HAZARD GROUP II
- NOTES:
  - ALL MATERIAL TO BE NEW AND MEET U.L. STANDARDS
  - HANGERS TO BE INSTALLED IN ACCORDANCE WITH NFPA 13 - SEE PLAN FOR HANGING REQ.
  - ALL SPRIGS TO BE 1" PIPE
- SYMBOLS USED ON DRAWINGS:
  - PIPE ELEVATION A.F.F.
  - PIPE ELEVATION BELOW B.O.D.
  - ROOM HAZARD CLASSIFICATION (ALL ROOMS ARE CONSIDERED LIGHT HAZARD UNLESS NOTED)
  - HYDRAULIC CALCULATION JUNCTION POINT
  - CEILING HEIGHT
- SCOPE OF WORK:
  - DES MOINES COMBINED SCHOOL BUILDING
  - TO INSTALL NEW WET SPRINKLER SYSTEMS IN DES MOINES COMBINED SCHOOL BUILDING. ALL AREAS OF THE BUILDING TO BE INSTALLED AND COVERED IN ACCORDANCE WITH THE LOCAL AUTHORITY HAVING JURISDICTION AND PER NFPA 13

| SPR. TYP. | POSITION | FRST  | TEMP. °F | NPT  | SN   | MP    | MODEL | BRNCH/CHK | MAX. SPACING |
|-----------|----------|-------|----------|------|------|-------|-------|-----------|--------------|
| 107       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 108       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 109       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 110       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 111       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 112       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 113       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 114       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 115       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 116       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 117       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 118       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 119       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 120       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 121       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 122       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 123       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 124       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 125       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 126       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 127       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 128       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 129       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 130       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 131       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 132       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 133       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 134       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 135       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 136       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 137       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 138       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 139       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 140       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 141       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 142       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 143       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 144       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 145       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 146       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 147       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 148       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 149       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 150       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 151       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 152       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 153       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 154       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 155       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 156       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 157       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 158       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 159       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 160       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 161       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 162       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 163       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
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| 165       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 166       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 167       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 168       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 169       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 170       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 171       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 172       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 173       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 174       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 175       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 176       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 177       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 178       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 179       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 180       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 181       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 182       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 183       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 184       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 185       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 186       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 187       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 188       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 189       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 190       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 191       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 192       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 193       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 194       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 195       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 196       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 197       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 198       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 199       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |
| 200       | UPRIGHT  | BRASS | 200      | 5/8" | 1/2" | TY213 | TYCO  | TY-FRB    | N/A          |

#### SPRINKLER HEAD LEGEND

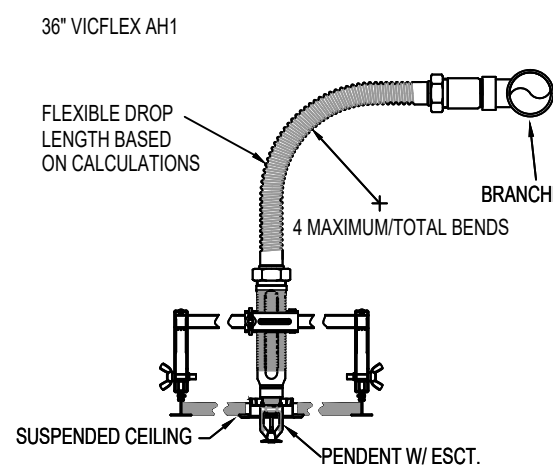


#### CEILING TILE DETAIL



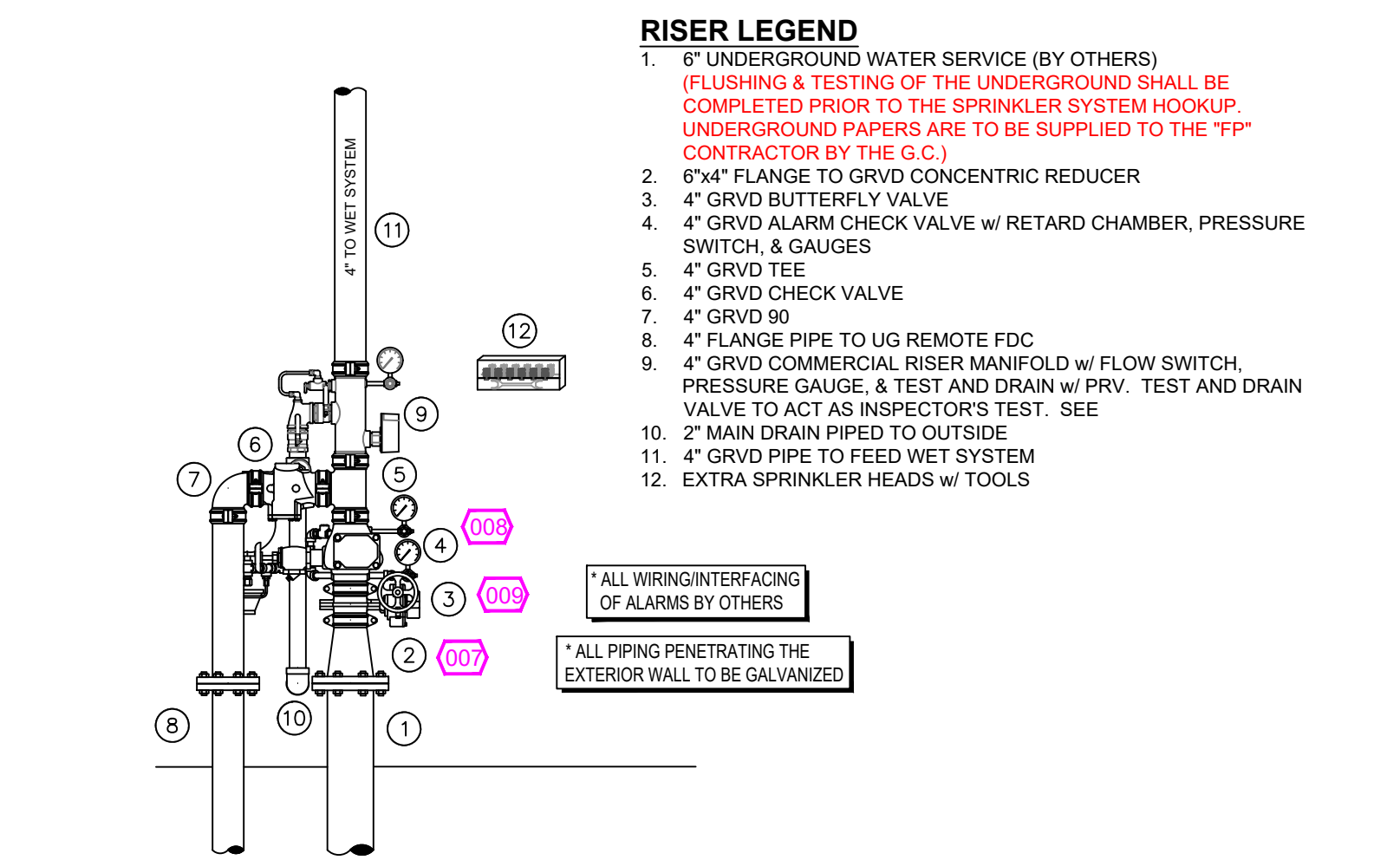
#### OVERHEAD DOOR SIDEWALL DETAIL

SCALE: 1/4" = 1'-0"



#### FLEXIBLE SPRINKLER DROP DETAILS

| UNSUPPORTED LENGTHS - END SPRINKLER TO LAST HANGER |        |        |        |        |        |        |        |
|----------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|
| NOMINAL PIPE SIZE (in.)                            | 1"     | 1-1/4" | 1-1/2" | 2"     | 2-1/2" | 3"     | 4"     |
| UNSUPPORTED LENGTH STEEL PIPE                      | 36"    | 48"    | 60"    | 60"    | 60"    | 60"    | 15'-0" |
| MAXIMUM DISTANCE BETWEEN HANGERS                   |        |        |        |        |        |        |        |
| NOMINAL PIPE SIZE (in.)                            | 1"     | 1-1/4" | 1-1/2" | 2"     | 2-1/2" | 3"     | 4"     |
| GROOVED - SCH. 10 & LIGHTWALL STEEL PIPE           | 12'-0" | 12'-0" | 15'-0" | 15'-0" | 15'-0" | 15'-0" | 15'-0" |
| THREADED - SCH. 40 STEEL PIPE                      | 12'-0" | 12'-0" | 12'-0" | 12'-0" | 12'-0" | 12'-0" | N/A    |



#### 1 RISER DETAIL

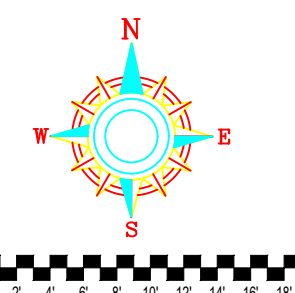
SCALE: 1/2" = 1'-0"

#### DESIGN NARRATIVE

THIS PROJECT CONSISTS OF A NEW WET PIPE FIRE SPRINKLER SYSTEM INSTALLED IN NEW ADDITION. SPRINKLER SYSTEM WILL BE SUPPLIED BY 75,000 GAL. OUTDOOR STORAGE TANK AND 1000 GPM @ 90 PSI DIESEL FIRE PUMP. THIS ADDITION SHALL BE FULLY SPRINKLERED. THIS SPRINKLER SYSTEM SHALL MEET DESIGN PER THE 2022 IBC / IFC AND NFPA 13 (2019). THIS SYSTEM IS DESIGNED AND SHALL BE INSTALLED PER NFPA 13 (2019).

#### INSTALLERS NOTE:

- ONLY 1 SPRINKLER CAN BE RELOCATED FROM ONE SPRINKLER OUTLET
- ADDED SPRINKLERS SHALL BE PIPED BACK TO THE MAIN EXCEPT ON GRIDDED SYSTEM, THEN THEY CAN BE CUT INTO BRANCHLINE
- ALL ARM-OVER 1'-0" OR OVER SHALL HAVE A HANGER.



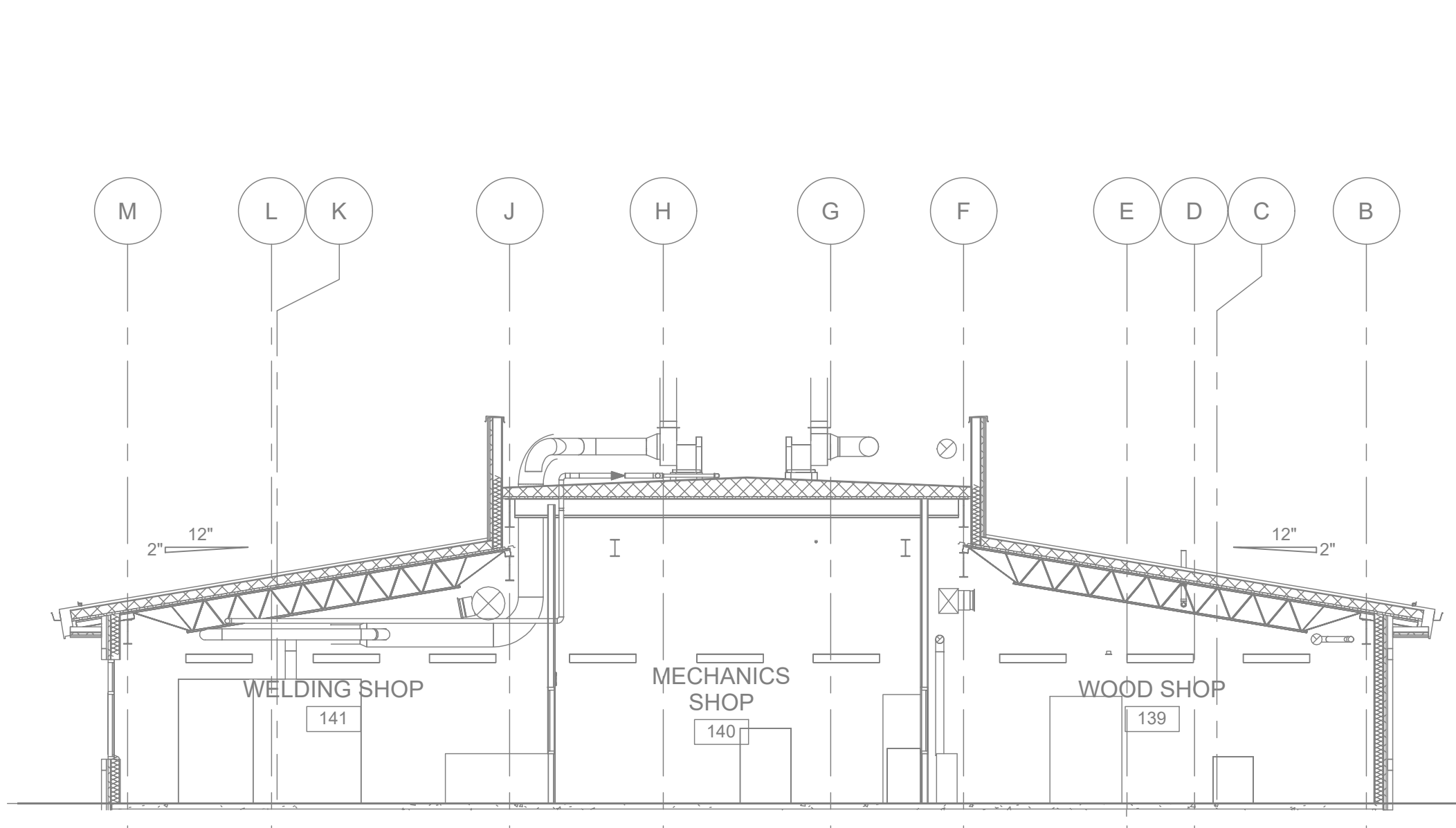
#### PROJECT DATA

DES MOINES COMBINED SCHOOL  
ADDRESS: DES MOINES SCHOOL  
500 DES MOINES AVE.  
DES MOINES, NM 88418  
OWNER: DES MOINES MUNICIPAL SCHOOL  
500 DES MOINES AVE  
DES MOINES, NM 88418

OCCUPANCY: E-Educational  
TYPE OF CONSTRUCTION: II-B Fully Sprinklered

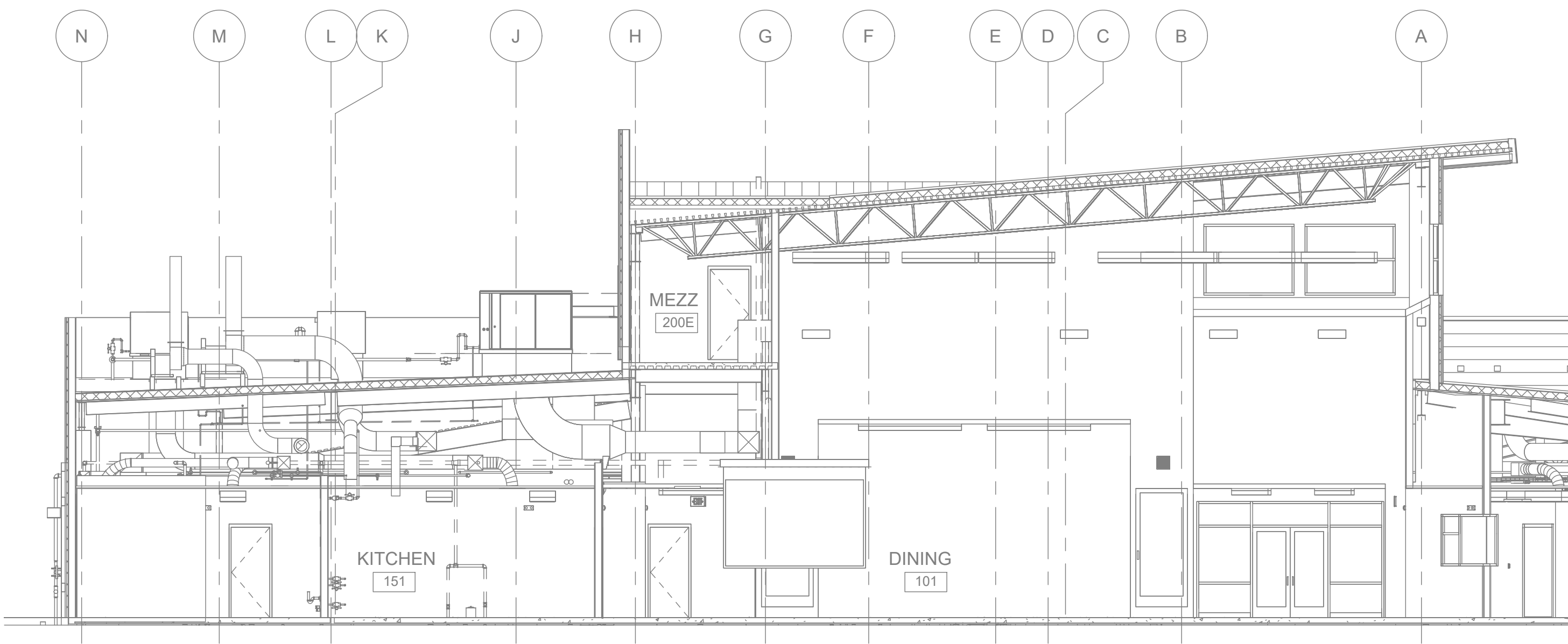
TOTAL AREA: 45,261 sf

**IMPORTANT NOTE TO OWNER**  
It is the OWNERS responsibility to insure the complete SPRINKLER SYSTEM is tested and maintained per the latest edition of N.F.P.A. #25 and the AUTHORITY HAVING JURISDICTION.  
It is the OWNERS responsibility to MAINTAIN ADEQUATE heat at all times throughout the entire building to prevent freeze up of the fire protection system.



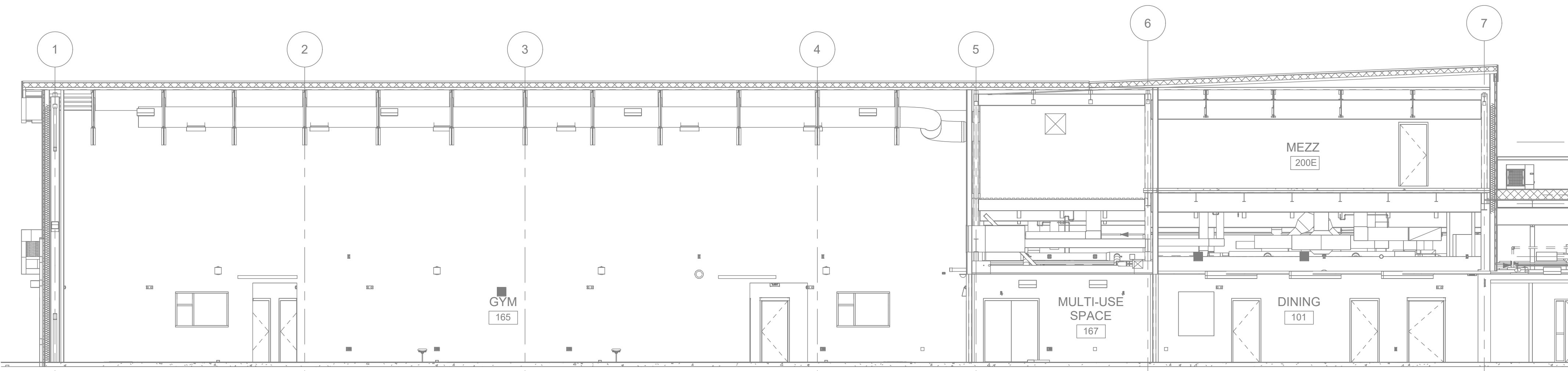
#### B BUILDING SECTION

SCALE= 1/8" : 1'-0"



#### C BUILDING SECTION

SCALE= 1/8" : 1'-0"



#### A BUILDING SECTION

SCALE= 1/8" : 1'-0"

BUILDING PERMIT # 2020-

|                                                                                                                                                                                                             |                                                                                                                                                                                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DES MOINES COMBINED SCHOOL<br>YUCCA ELEMENTARY SCHOOL ADDITION<br>DES MOINES, NM 88418<br>CONTRACTOR: DES MOINES MUNICIPAL SCHOOL<br>DES MOINES, NM 88418<br>DATE: 7/18/2024<br>SCALE: AS NOTED<br>FPI OF 3 | DES MOINES COMBINED SCHOOL<br>YUCCA ELEMENTARY SCHOOL ADDITION<br>DES MOINES, NM 88418<br>CONTRACTOR: DES MOINES MUNICIPAL SCHOOL<br>DES MOINES, NM 88418<br>DATE: 7/18/2024<br>SCALE: AS NOTED<br>FPI OF 3 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



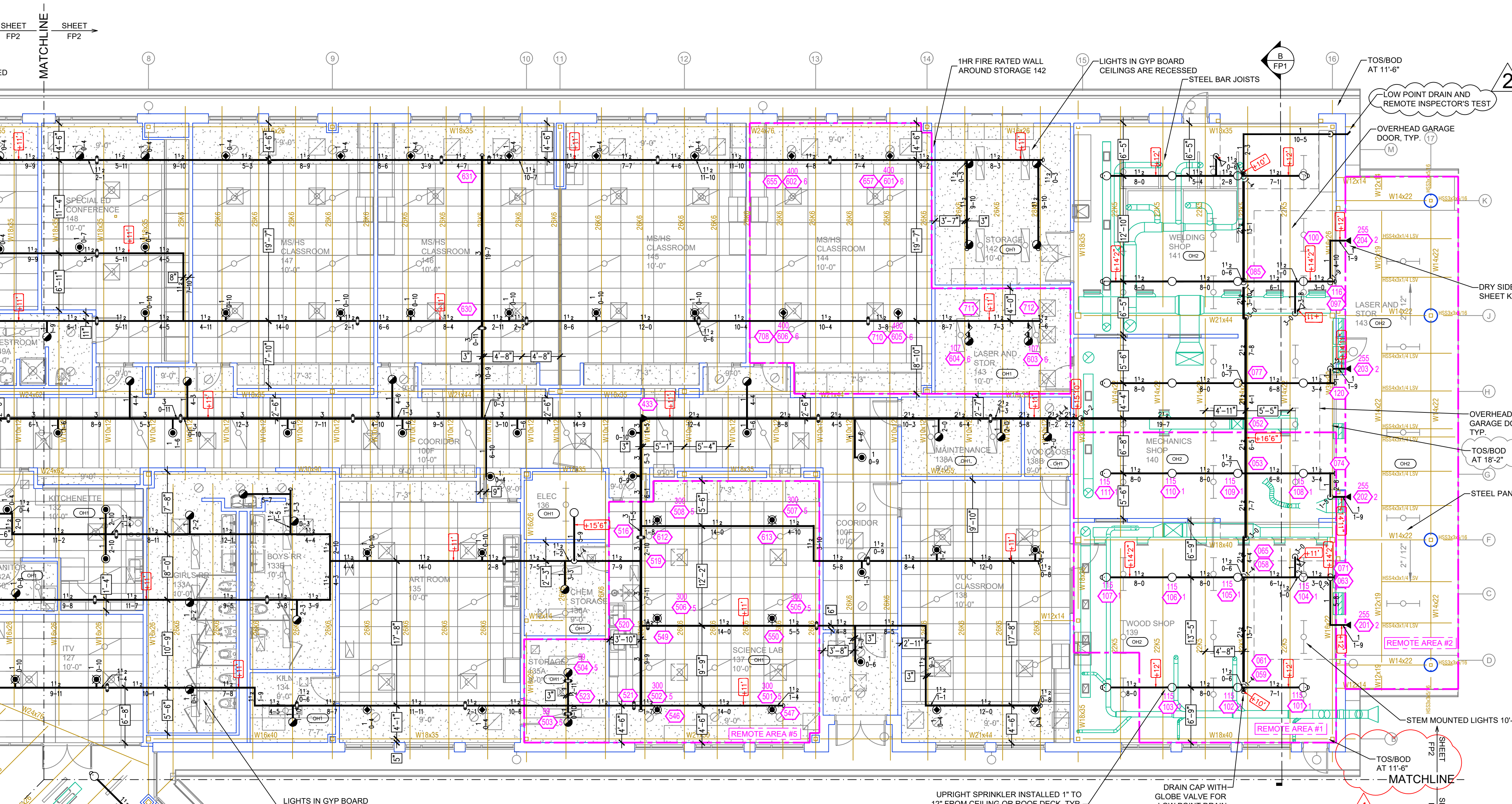
# PLAN KEY

Design Area #3 HAZARD: LH  
Zone: 1 System Type: WET  
Location: GYM 165

Flowing Outlets: 11  
Density: 0.10 Remote Area: 1647  
Req'd @ Base of Riser  
Flow 155.9 gpm @ 51.7 psi  
Req'd @ Pump Discharge  
Flow 295.9 gpm @ 57.7 psi  
Calculation Safety: 40.5 psi  
Includes 100 gpm Hose allowance

NOTE: 1500W REDUCED DUE TO 30' AFF  
CEILING HEIGHT PER NFPA 13 FIG. 11.2.3.2.1

# 1ST FLOOR AREA A SCALE: 1/8" = 1'-0"



# 1ST FLOOR AREA B SCALE: 1/8" = 1'-0"

# 1ST FLOOR AREA A SCALE: 1/8" = 1'-0"

| ITEM        | QTY | POSITION     | FINISH | TEMP | 1" K  | RPT  | ISN   | ARG  | MODEL     | ESCUTCHION | MAX SPACING               |
|-------------|-----|--------------|--------|------|-------|------|-------|------|-----------|------------|---------------------------|
| 1           | 107 | UPRIGHT      | BRASS  | 200  | 5.80  | 1/2" | TY301 | TYCO | TY-FRB    | N/A        | 150 SQ. FT. / 225 SQ. FT. |
| 2           | 3   | SIDEWALL     | BRASS  | 200  | 5.80  | 1/2" | TY301 | TYCO | TY-FRB    | N/A        | 150 SQ. FT. / 225 SQ. FT. |
| 3           | 4   | DRY SIDEWALL | CHROME | 200  | 11.20 | 1"   | TY301 | TYCO | TY-FRB    | N/A        | 150 SQ. FT. / 225 SQ. FT. |
| 4           | 45  | PENDENT      | WHITE  | 200  | 11.20 | 3/4" | TY301 | TYCO | ES-11     | RECESSED   | 18" x 18"                 |
| 5           | 15  | PENDENT      | WHITE  | 200  | 5.80  | 1/2" | TY301 | TYCO | TY-FRB    | RECESSED   | 15" x 15"                 |
| 6           | 74  | PENDENT      | WHITE  | 200  | 5.80  | 1/2" | TY301 | TYCO | RFI       | CONCEALED  | 18" x 18"                 |
| 7           | 44  | PENDENT      | WHITE  | 205  | 11.20 | 3/4" | VR301 | TYCO | MRAGE QRC | CONCEALED  | 20" x 20"                 |
| 8           | 42  | HEAD CASE    |        |      |       |      |       |      |           |            |                           |
| TOTAL HEADS |     |              |        |      |       |      |       |      |           |            |                           |

# SPRINKLER HEAD LEGEND

Design Area #1 HAZARD: CH2  
Zone: 1 System Type: WET  
Location: WOOD SHOP 139

Flowing Outlets: 11  
Density: 0.20 Remote Area: 1121  
Req'd @ Base of Riser  
Flow 269.2 gpm @ 53.4 psi  
Req'd @ Pump Discharge  
Flow 519.2 gpm @ 60.4 psi  
Calculation Safety: 36.4 psi  
Includes 250 gpm Hose allowance

NOTE: 1500W REDUCED BY 20% TO 1000W  
DUE TO 10' CEILING HEIGHT PER NFPA 13  
FIG. 11.2.3.2.1

Design Area #2 HAZARD: CH2  
Zone: 1 System Type: DRY  
Location: SHOPS CANOPY

Flowing Outlets: 11  
Density: 0.20 Remote Area: 859  
Req'd @ Base of Riser  
Flow 209.1 gpm @ 52.4 psi  
Req'd @ Pump Discharge  
Flow 459.1 gpm @ 58.9 psi  
Calculation Safety: 38.3 psi  
Includes 250 gpm Hose allowance

NOTE: CALCULATED ALL OF CANOPY AREA

Design Area #5 HAZARD: CH1  
Zone: 1 System Type: WET  
Location: SCIENCE LAB 137

Flowing Outlets: 8  
Density: 0.15 Remote Area: 933  
Req'd @ Base of Riser  
Flow 351.5 gpm @ 59.8 psi  
Req'd @ Pump Discharge  
Flow 601.5 gpm @ 67.5 psi  
Calculation Safety: 28.6 psi  
Includes 250 gpm Hose allowance

NOTE: 1500W REDUCED BY 40% TO 900W DUE  
TO 10' CEILING HEIGHT PER NFPA 13 FIG.  
11.2.3.2.1

**IMPORTANT NOTE TO OWNER**  
It is the OWNER'S responsibility to insure the complete SPRINKLER SYSTEM is tested and maintained per the latest edition of NFPA #25 and the AUTHORITY HAVING JURISDICTION.  
It is the OWNER'S responsibility to MAINTAIN ADEQUATE heat at all times throughout the entire building to prevent freeze up of the fire protection system.

**PROJECT DATA**  
DES MOINES COMBINED SCHOOL  
500 DES MOINES AVE.  
DES MOINES, NM 88418

**OWNER:**  
DES MOINES MUNICIPAL SCHOOL  
500 DES MOINES AVE  
DES MOINES, NM 88418

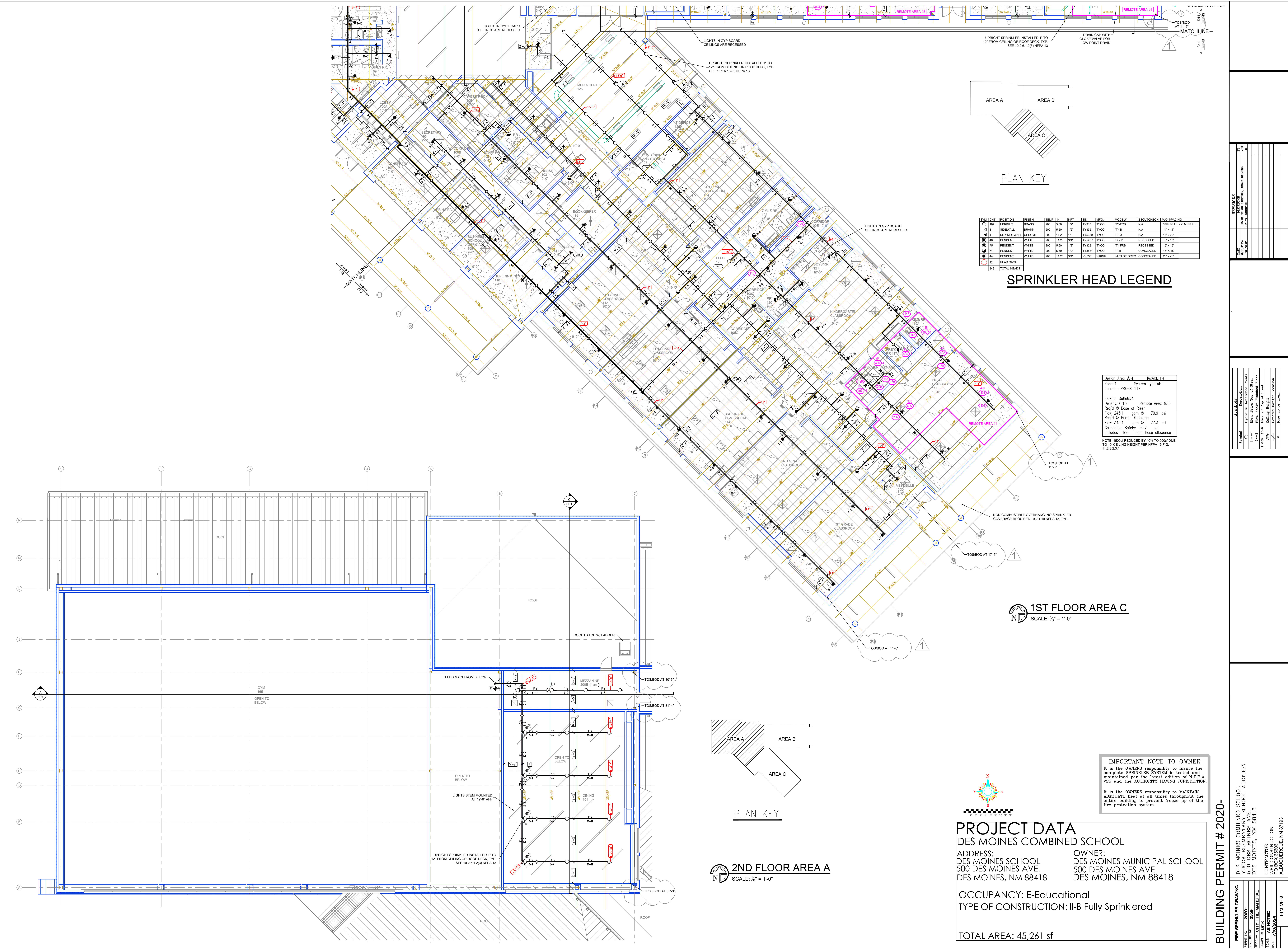
**OCCUPANCY:** E-Educational  
**TYPE OF CONSTRUCTION:** II-B Fully Sprinklered

**TOTAL AREA:** 45,261 sf

**BUILDING PERMIT # 2020-**

|                                                     |                                                                                        |
|-----------------------------------------------------|----------------------------------------------------------------------------------------|
| DESIGNER<br>ALBUQUERQUE, NM 87103                   | DES MOINES COMBINED SCHOOL<br>YUCCA ELEMENTARY SCHOOL ADDITION<br>DES MOINES, NM 88418 |
| CONTRACTOR<br>PG BOX 46506<br>ALBUQUERQUE, NM 87103 | DES MOINES COMBINED SCHOOL<br>YUCCA ELEMENTARY SCHOOL ADDITION<br>DES MOINES, NM 88418 |
| DATE<br>7/18/2024                                   | SCALE<br>AS NOTED                                                                      |
| PROJECT NO.<br>2020-2059                            | CITY<br>FIRE MARSHAL                                                                   |
| PERMIT NO.<br>2020-2059                             | DATE<br>7/18/2024                                                                      |
| PROJECT NO.<br>2020-2059                            | DATE<br>7/18/2024                                                                      |
| PROJECT NO.<br>2020-2059                            | DATE<br>7/18/2024                                                                      |





BUILDING PERMIT # 2020-

|                                                                                        |                   |
|----------------------------------------------------------------------------------------|-------------------|
| DES MOINES COMBINED SCHOOL<br>YUCCA ELEMENTARY SCHOOL ADDITION<br>DES MOINES, NM 88418 |                   |
| CONTRACTOR<br>DES MOINES FIRE MARSHAL<br>PG BOX 16506<br>ALBUQUERQUE NM 87103          | DATE<br>7/18/2024 |
| PROJECT NO.<br>2020-2020                                                               | DATE<br>7/18/2024 |
| CITY FIRE MARSHAL<br>DES MOINES, NM                                                    | DATE<br>7/18/2024 |
| SALE<br>AS NOTED                                                                       | DATE<br>7/18/2024 |
| PG 3 OF 3                                                                              |                   |