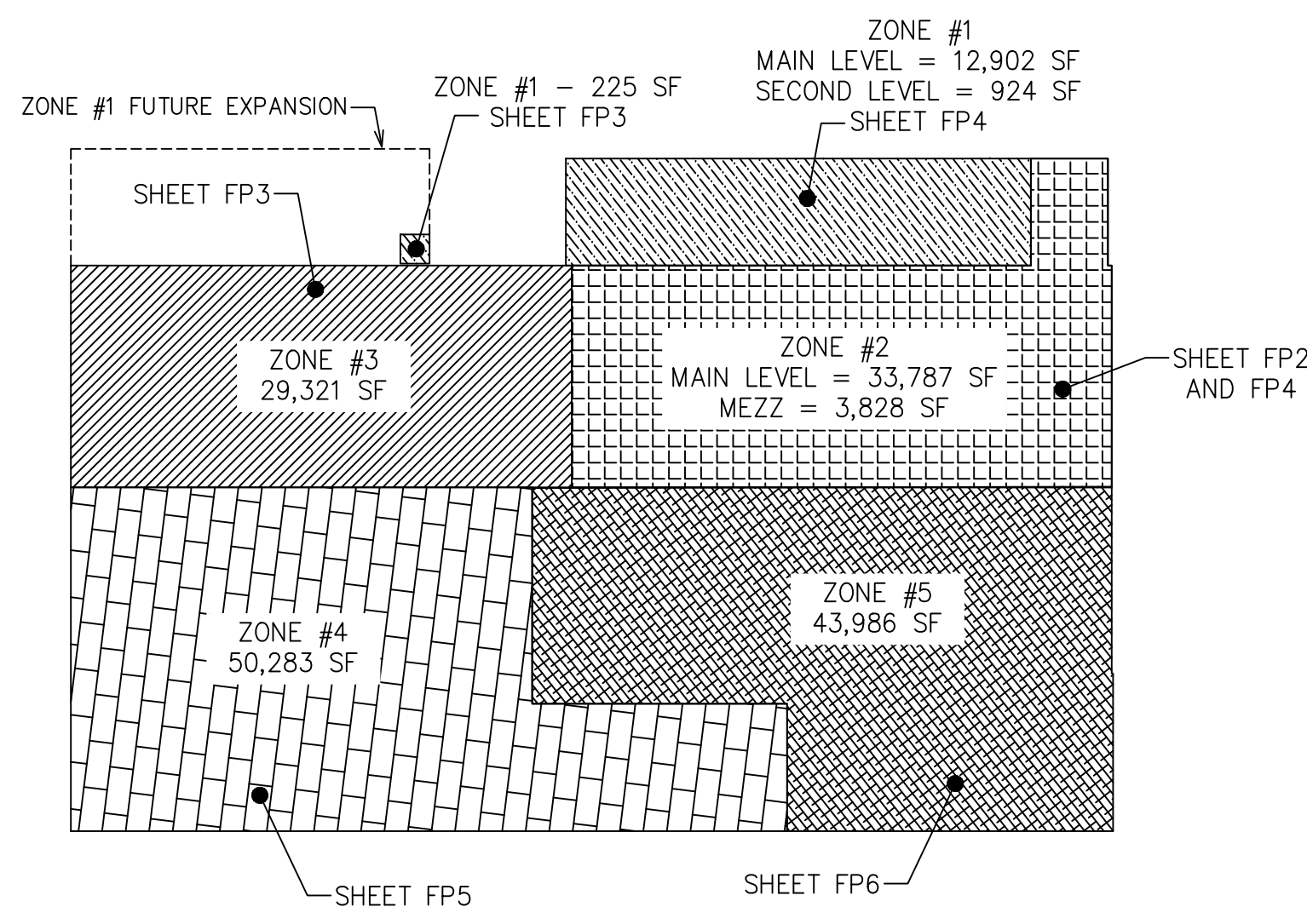


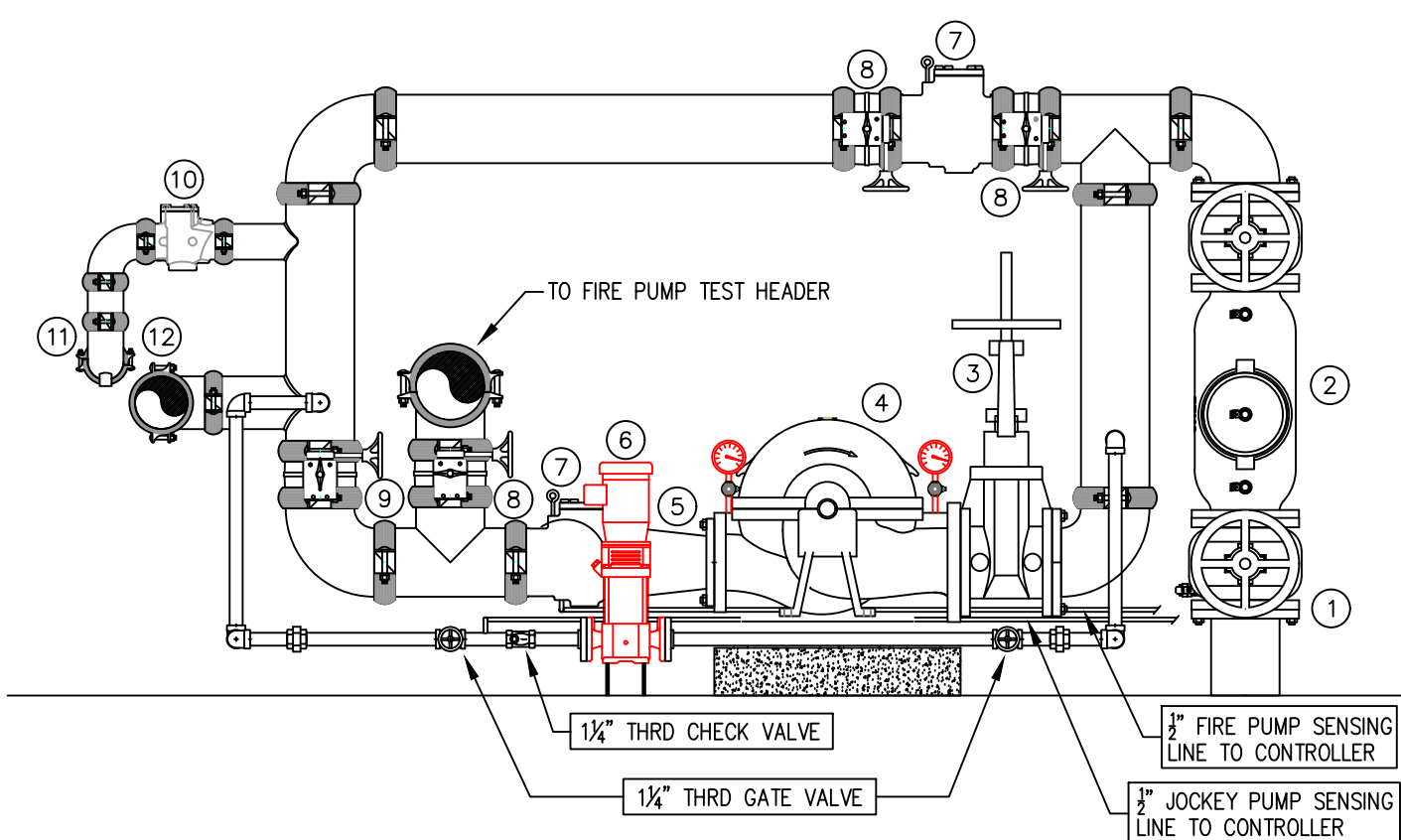
STORAGE DESIGN INFORMATION												
KEYNOTE	COMMODITY CLASSIFICATION	STORAGE TYPE	STORAGE HEIGHT	CEILING HEIGHT	SPRINKLER TEMP	ENCAPSULATED (Y/N)	DENSITY	REDUCTION	ADJUSTED DENSITY	DESIGN AREA	HOSE (GPM)	NOTES
◇	CLASS I	SOLID-PILED	13'-0"	27'-4"	HIGH	N	0.16	Y (65%)	0.15	2000 SF	500	0.15 MIN DENSITY REQUIRED
◇	CLASS I	OPEN RACK	12'-0"	27'-4"	HIGH	N	0.15	NA	0.20	1500 SF	250	AREA IS LOW-PILED STORAGE PER NFPA 13
◇	CLASS 4	SOLID-PILED	12'-0"	27'-4"	ORDINARY	Y	NA	NA	NA	12 SPK	250	K16.8
◇	RUBBER TIRES	OPEN RACK	16'-0"	27'-4"	ORDINARY	N	NA	NA	NA	12 SPK	250	K16.8
◇	CLASS I	OPEN RACK	19'-0"	27'-4"	HIGH	N	0.30	Y (92%)	0.28	2000 SF	500	8'-0" AISLE WIDTH DETERMINED THROUGH LINEAR INTERPOLATION
◇	CLASS III	OPEN RACK	15'-0"	27'-4"	HIGH	N	0.37	Y (60%)	0.23	2000 SF	500	8'-0" AISLE WIDTH
◇	CLASS I	OPEN RACK	15'-0"	27'-4"	HIGH	N	0.29	Y (60%)	0.18	2000 SF	500	8'-0" AISLE WIDTH
◇	CLASS I	OPEN RACK	13'-0"	27'-4"	HIGH	N	0.29	Y (60%)	0.18	2000 SF	500	8'-0" AISLE WIDTH
◇	CLASS I	OPEN RACK	12'-0"	27'-4"	HIGH	N	0.15	NA	0.20	1500 SF	250	AREAS ARE LOW-PILED STORAGE PER NFPA 13
◇	CLASS I/III	OPEN RACK	10'-0"	27'-4"	HIGH	N	0.20	NA	0.20	1500 SF	250	AREAS ARE LOW-PILED STORAGE PER NFPA 13
◇	CLASS I	OPEN RACK	9'-0"	27'-4"	HIGH	N	0.15	NA	0.20	1500 SF	250	AREA IS LOW-PILED STORAGE PER NFPA 13
◇	CLASS I	OPEN RACK	12'-0"	27'-4"	HIGH	N	0.15	NA	0.20	1500 SF	250	AREAS ARE LOW-PILED STORAGE PER NFPA 13
◇	CLASS I/III	OPEN RACK	12'-0"	13'-0"	ORDINARY	N	0.20	NA	0.20	1500 SF	250	AREA IS LOW-PILED STORAGE PER NFPA 13

IN-RACK SPRINKLERS SHALL NOT BE REQUIRED. WILSON TRAILER WILL REMOVE AND REPLACE SOLID SHELVING IN RACKS WITH SHELF AREAS EQUAL TO OR LESS THAN 20 SF OR INSTALL SHELVING HAVING WIRE MESH SLATED SURFACE, OR OTHER MATERIAL WITH OPENINGS REPRESENTING AT LEAST 50 PERCENT OF THE SHELF AREA INCLUDING AREA OF RACK MEMBERS AND WHERE FLUE SPACES ARE MAINTAINED.



ZONE LEGEND

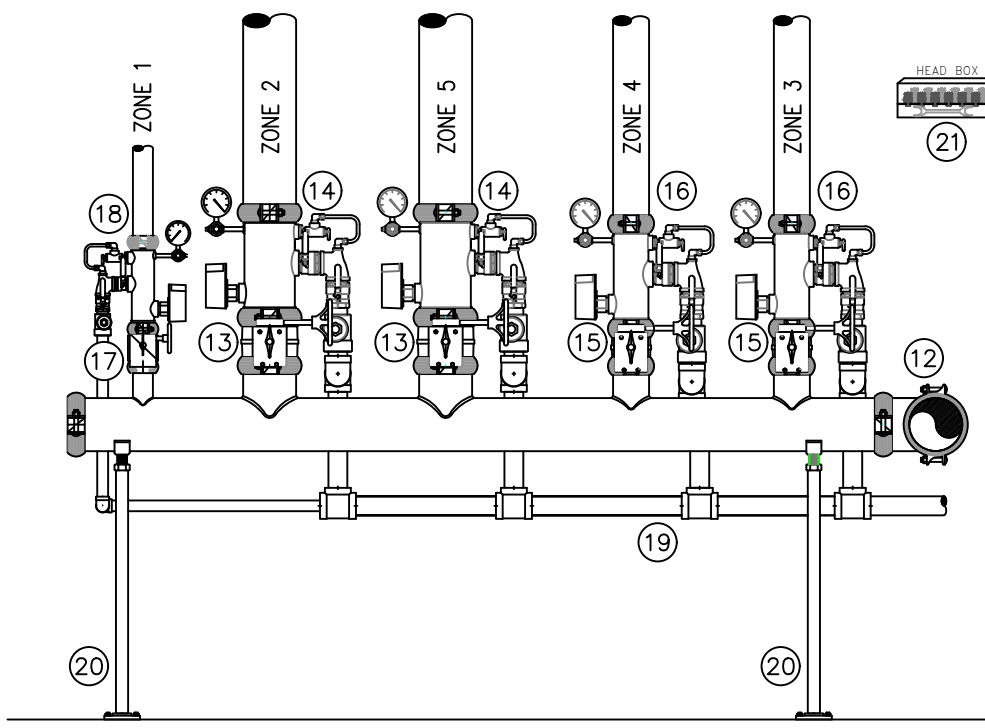
NOTE: LAYOUTS AND CONFIGURATION SHOWN ARE GENERIC. FIRE SPRINKLER CONTRACTOR SHALL DETERMINE AND BE RESPONSIBLE FOR FINAL ARRANGEMENT.



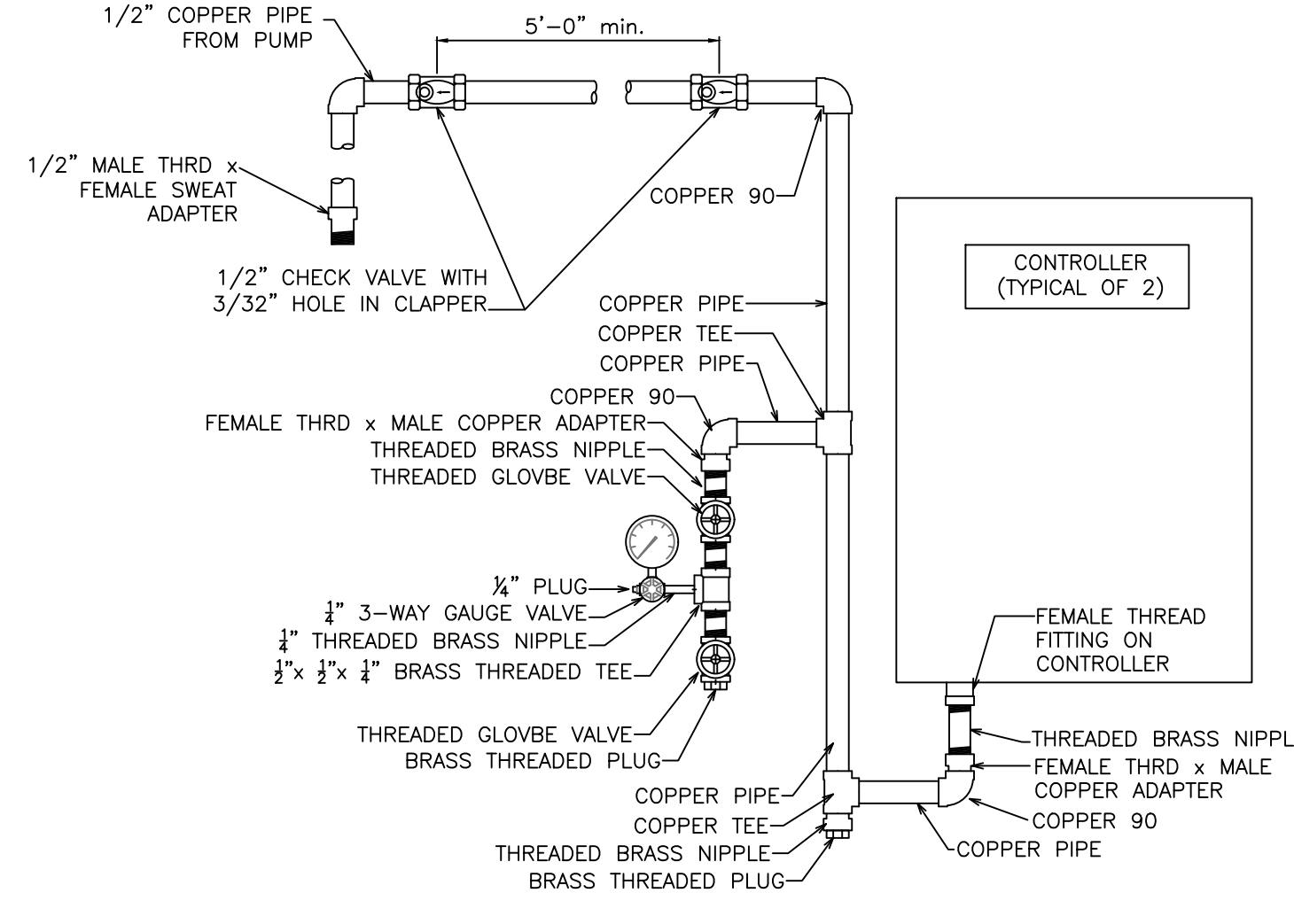
- FIRE PUMP LEGEND**
- 8" WATER UNDERGROUND SERVICE (BY OTHERS)
 - 8" BACKFLOW w/ SUPERVISED OS&Y VALVES
 - 8" SUPERVISED OS&Y VALVE
 - FIRE PUMP 150gpm @ 100psi (FIRE SPRINKLER CONTRACTOR SHALL VERIFY ACTUAL FIRE PUMP CURVE MEETS SYSTEM DEMANDS PLUS 5 PSI SAFETY MIN)
 - 6" 45° CONCENTRIC INCREASER
 - JOCKEY PUMP
 - CHECK VALVE
 - 8" SUPERVISED BUTTERFLY VALVE (NORMALLY CLOSED)
 - 8" SUPERVISED BUTTERFLY VALVE (NORMALLY OPEN)
 - CHECK VALVE
 - 4" DRAIN 90 w/ BALL DRIP TO FDC
 - 8" MAIN TO SYSTEM, SEE PIPING PLAN FOR LAYOUT

- * ALL WRING/INTERFACING OF ALARMS BY OTHERS
- * ALL PIPING PENETRATING THE EXTERIOR WALL TO BE GALVANIZED
- * A FLOOR DRAIN OF ADEQUATE SIZE SHALL BE PROVIDED BY OTHERS

1 FIRE PUMP AND RISER DETAILS
SCALE: 1/2" = 1'-0"

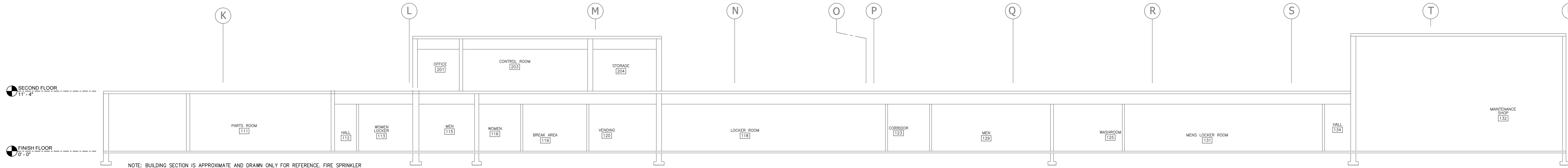


- RISER LEGEND**
- 8" MAIN TO FIRE PUMP, SEE PIPING PLAN FOR LAYOUT
 - 8" SUPERVISED BUTTERFLY VALVE (NORMALLY OPEN)
 - 8" COMMERCIAL RISER MANIFOLD (FLOW SWITCH, PRESSURE GAUGE, AND TEST & DRAIN w/ PFRV)
 - 4" SUPERVISED BUTTERFLY VALVE (NORMALLY OPEN)
 - 4" COMMERCIAL RISER MANIFOLD (FLOW SWITCH, PRESSURE GAUGE, AND TEST & DRAIN w/ PFRV)
 - 2-1/2" SUPERVISED BUTTERFLY VALVE (NORMALLY OPEN)
 - 2-1/2" COMMERCIAL RISER MANIFOLD (FLOW SWITCH, PRESSURE GAUGE, AND TEST & DRAIN w/ PFRV)
 - 2" COMBINED MAIN DRAIN PIPE TO BUILDING EXTERIOR
 - PIPE STAND
 - SPRINKLE HEAD BOX CONTAINING EXTRA SPRINKLERS PER NFPA 13 HEAD WRENCH FOR EACH TYPE OF SPRINKLER



FIRE PUMP CONTROLLER DETAIL
SCALE: NONE

- PROJECT NOTES**
- SCOPE OF WORK:
- THIS PROJECT INCLUDES THE DESIGN AND INSTALL OF A NEW WET FIRE SPRINKLER SYSTEM FOR THE EXISTING WILSON TRAILER FACILITY.
 - WILSON TRAILER IS PROVIDING THE DESIGN OF THE EXISTING FACILITY AS SHOWN ON THESE PLANS; HOWEVER, THE SYSTEM LAYOUT IS SUBJECT TO APPROVAL OF THE ENGINEER AND THE FIRE SPRINKLER CONTRACTOR SHALL BE REQUIRED TO SUBMIT HYDRAULIC CALCULATIONS AS DESCRIBED IN NFPA 13 AT NO COST TO THE OWNER.
 - ANY AND ALL CLARIFICATIONS TO THESE CONSTRUCTION DOCUMENTS SHALL BE MADE PRIOR TO BID. NO ALLOWANCES WILL BE MADE AFTER AWARD OF CONTRACT FOR ADDITIONAL MATERIALS AND/OR LABOR TO PROPERLY INSTALL SYSTEM TO SUIT ACTUAL CONDITIONS.
 - FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS PRIOR TO BID AND FOR PROVIDING ALL MATERIALS AND LABOR NECESSARY FOR INSTALLATION, ADDITIONAL SPRINKLER HEADS, FITTINGS, LABOR, AND OTHER APPURTENANCES NOT SHOWN ON THESE PLANS THAT ARE NECESSARY FOR PROPER INSTALLATION PER ALL APPLICABLE CODES SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
 - ALL MATERIAL SHALL BE NEW AND LISTED FOR FIRE PROTECTION USE.
 - UPRIGHT SPRINKLER FINISH SHALL BE BRASS.
 - PENDENT SPRINKLER FINISH SHALL BE WHITE WITH MATCHING SEMI-RECESSED ESCUTCHEON IN FINISHED CEILING.
 - STANDARD-SPRAY SIDEWALL SPRINKLERS LOCATED BENEATH OVERHEAD DOORS AND THROUGHOUT AREAS WHERE STANDARD-SPRAY SPRINKLERS ARE EXPOSED TO INTERFERENCE DAMAGE SUCH AS BELOW THE MEZZANINE AND CATWALKS AT WILSON TRAILERS DISCRETION.
 - CRACKED PIPING SHALL BE SCHEDULE 10 MINIMUM.
 - THREADED PIPING SHALL BE SCHEDULE 40 MINIMUM.
 - THREADED FITTINGS SHALL BE DUCTILE IRON.
 - FLEX PIPING TO PENDENT SPRINKLERS SHALL BE ALLOWED WHERE PROVEN HYDRAULICALLY.
 - CPVC PIPING IS PERMITTED IN LIGHT HAZARD OCCUPANCIES, CONCEALED ABOVE CEILING, AND WHERE ALLOWED BY ITS LISTING. IF PLANNING TO USE CPVC PIPE ABOVE CEILING, VERIFY THAT THE LISTING MEETS ALL APPLICABLE LISTINGS. PROVIDE SPRINKLER PROTECTION ABOVE CEILING AS REQUIRED TO MEET ALL APPLICABLE CODES, STANDARDS, LISTINGS, AND APPROVALS.
 - ALL EXPOSED PIPING SHALL BE STEEL.
 - ALL PIPE PENETRATING EXTERIOR WALLS SHALL BE GALVANIZED AND THE ANNULAR SPACE SHALL BE SEALED AT EACH SIDE OF THE WALL.
 - FIRE DEPARTMENT CONNECTION SHALL BE BRASS, INSTALLED MIN. OF 18" TO A MAX OF 48" ABOVE FINAL EXTERIOR GRADE, AND READILY ACCESSIBLE AT ALL TIMES WITH A 36" CLEARANCE. THE HOSE CONNECTION THEREAS SHALL MATCH THE LOCAL FIRE DEPARTMENT.
 - AUXILIARY AND LOW POINT DRAINS TO BE PROVIDED WHERE REQUIRED BY NFPA 13 AND SHALL DISCHARGE TO THE BUILDING EXTERIOR TO FACILITATE PURGING OF AIR WHEN FILLING THE SYSTEM.
 - AN AIR VENT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13 FOR EACH WET SYSTEM UTILIZING METALLIC PIPE.
 - SPRINKLER PROTECTION SHALL BE PROVIDED BELOW ALL EQUIPMENT AND DUCTWORK GREATER THAN 4'-0" WIDE AS REQUIRED PER NFPA 13 EVEN IF NOT SHOWN ON THESE PLANS.
 - ALL CONTROL VALVES AND FLOW SWITCHES TO BE LOCALLY AND CENTRALLY MONITORED.
 - HANGERS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13.
 - DRAFT CURTAINS SHALL COMPLY WITH NFPA 13 REQUIREMENTS.
 - NEW UNDERGROUND PIPING SHALL BE TESTED AND FLUSHED IN ACCORDANCE WITH NFPA 24 (BY THE INSTALLING CONTRACTOR). DOCUMENTATION SHALL BE OBTAINED BY THE FIRE SPRINKLER CONTRACTOR PRIOR TO CONNECTING THE FIRE SPRINKLER SYSTEM.
 - ALL HOLES FOR PIPING SHALL BE DRILLED OR CORE DRILLED, NO BREAKING OF CONCRETE OR C.M.U. SHALL BE PERMITTED.
 - ALL SPRINKLERS SHALL BE PROTECTED DURING PAINTING BY THE FIRE SPRINKLER CONTRACTOR.
 - REQUIRED SYSTEM TESTING IS THE RESPONSIBILITY OF THE FIRE SPRINKLER CONTRACTOR AND SHALL BE PERFORMED IN ACCORDANCE WITH NFPA 25.
 - A STOCK OF SPARE SPRINKLERS SHALL BE PROVIDED ON SITE ALONG WITH ONE SPRINKLER WRENCH FOR EACH TYPE OF SPRINKLER IN ACCORDANCE WITH NFPA 13.
- HAZARD CLASSIFICATION NOTES**
- ALL OFFICE AREAS ARE CONSIDERED LIGHT HAZARD UNLESS NOTED OTHERWISE
 - ALL MANUFACTURING AREAS ARE CONSIDERED ORDINARY HAZARD GROUP 2 UNLESS NOTED OTHERWISE
 - AREA REDUCTIONS WERE UTILIZED WHERE ALLOWED BY NFPA 13
 - A MINIMUM OF 5 PSI SAFETY IS REQUIRED
 - LIGHT HAZARD AREA (LHA) AREAS DESIGNED TO DELIVER 0.10 GPM/SF OVER THE MOST DEMANDING 1500 SF
 - ORDINARY GROUP 1 (OH1) AREAS DESIGNED TO DELIVER 0.15 GPM/SF OVER THE MOST DEMANDING 1500 SF
 - ORDINARY GROUP 2 (OH2) AREAS DESIGNED TO DELIVER 0.20 GPM/SF OVER THE MOST DEMANDING 1500 SF
 - EXTRA GROUP 2 (EH2) AREAS DESIGNED TO DELIVER 0.40 GPM/SF OVER THE MOST DEMANDING 2500 SF
 - ◇ INDICATES STORAGE, SEE STORAGE DESIGN INFORMATION CHART

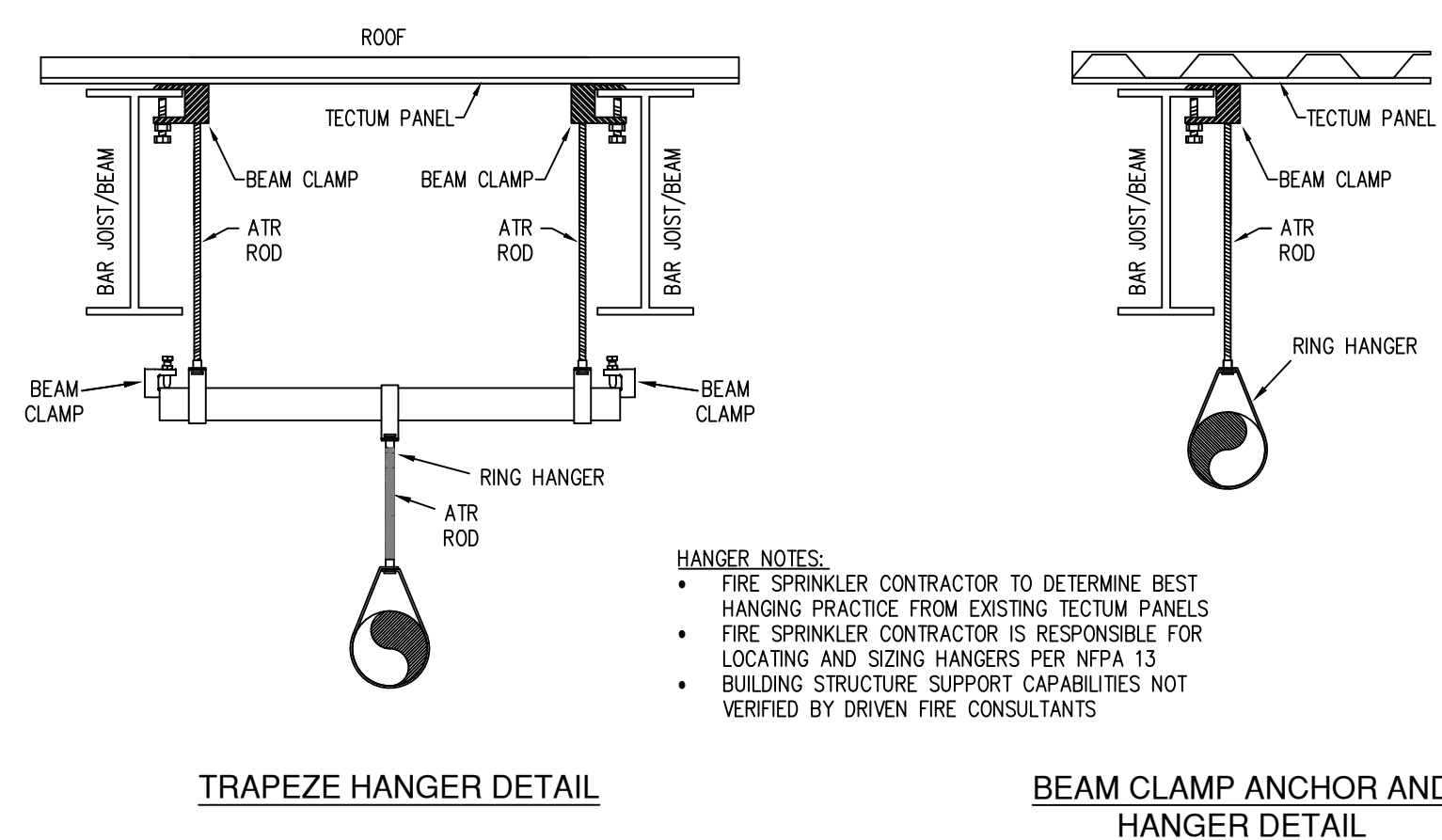


NOTE: BUILDING SECTION IS APPROXIMATE AND DRAWN ONLY FOR REFERENCE. FIRE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING MEASUREMENTS IN THE FIELD.

B BUILDING SECTION
SCALE: 1/8" = 1'-0"

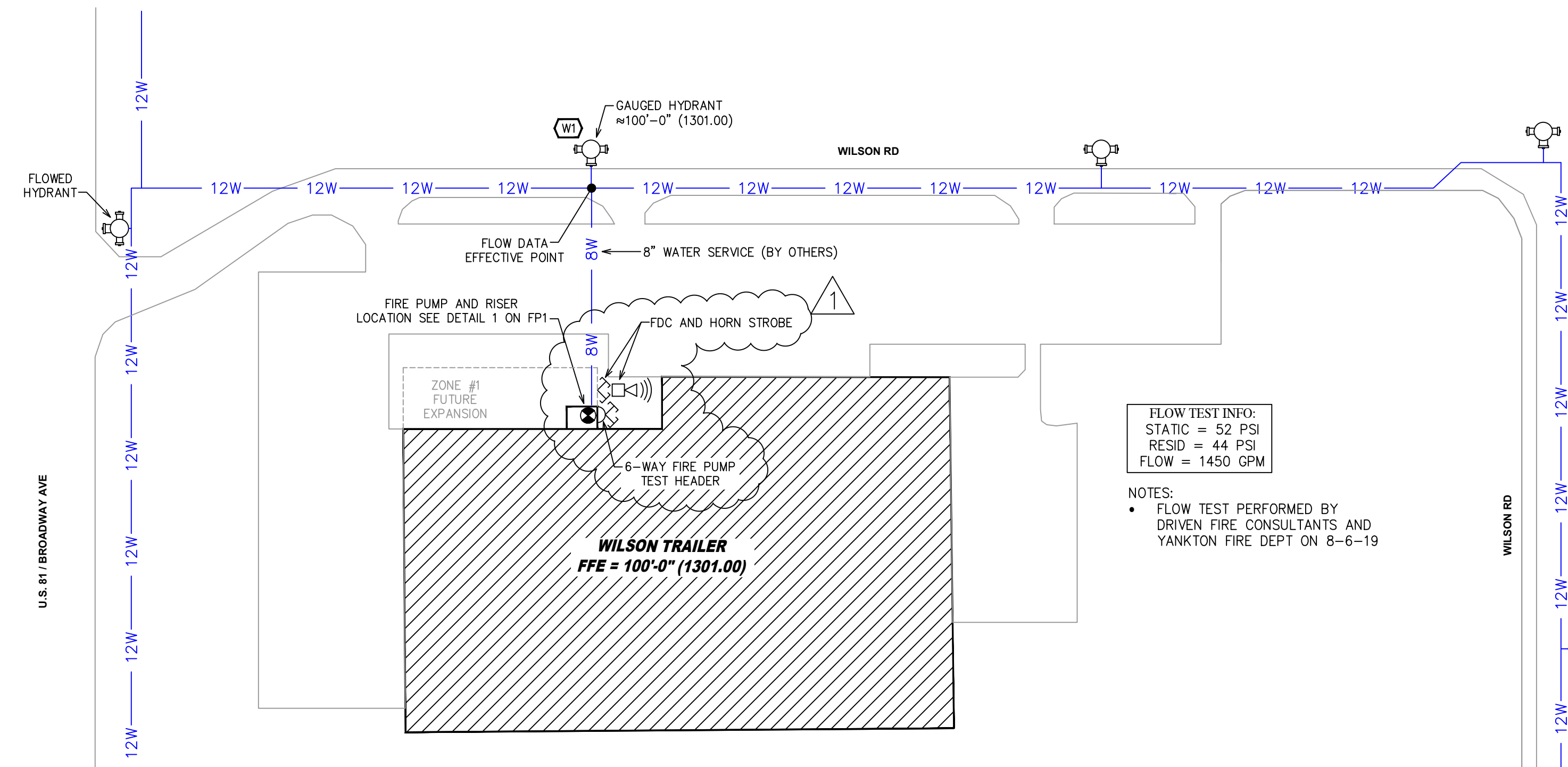
	MAXIMUM DISTANCE BETWEEN HANGERS (FT.-IN.)									
	NOMINAL PIPE SIZE (IN.)									
STEEL PIPE EXCEPT THREADED LIGHTWALL	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	6"	8"
CPVC	5-6	6-0	6-6	7-0	8-0	9-0	10-0	NA	NA	NA

NFPA 13 HANGER SPACING



- HANGER NOTES:**
- FIRE SPRINKLER CONTRACTOR TO DETERMINE BEST HANGING PRACTICE FROM EXISTING TECTUM PANELS
 - FIRE SPRINKLER CONTRACTOR IS RESPONSIBLE FOR LOCATING AND SIZING HANGERS PER NFPA 13
 - BUILDING STRUCTURE SUPPORT CAPABILITIES NOT VERIFIED BY DRIVEN FIRE CONSULTANTS

HANGER DETAILS

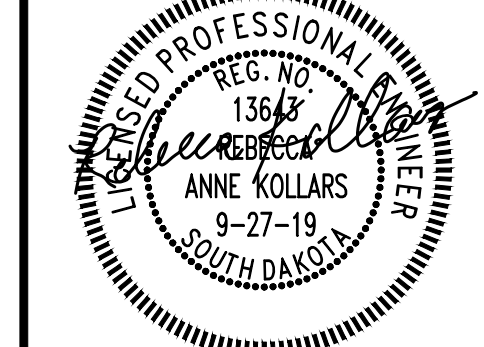


FLOW TEST INFO:
STATIC = 52 PSI
RESID = 44 PSI
FLOW = 1450 GPM

- NOTES:
- FLOW TEST PERFORMED BY DRIVEN FIRE CONSULTANTS AND YANKTON FIRE DEPT ON 8-6-19

SITE PLAN
SCALE: 1" = 100'-0"

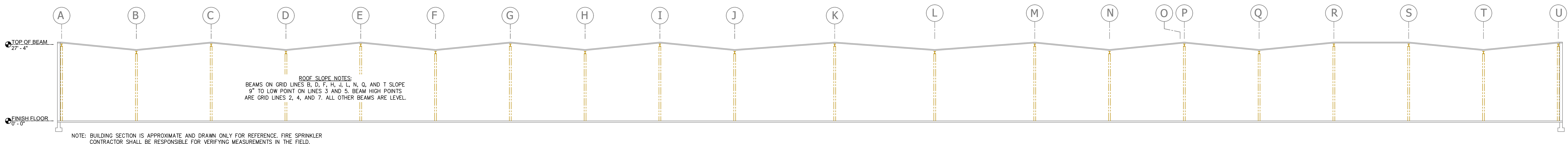
Symbol	Description
8'-0"	Ceiling Height
⬇	Elev. Below Top of Steel
⬆	Elev. Above Finished Floor
⬆	Hydraulic Reference Points
⊙	Common Connection Point
⊙	Denotes Hanger Location
↑	Rise up or down
⊕	Electrical Light
⊕	Room Hazard Classification
⊕	Spillway Head Edge



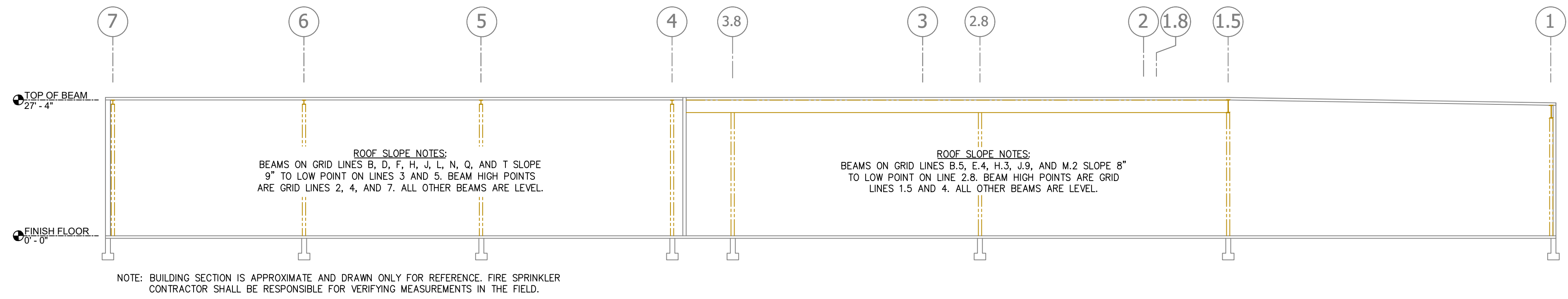
REVISIONS	
1	BID MTG COMMENTS

Drawing Title: FIRE PROTECTION PLAN
Project No.: FP579808
Drawn By: BK
Scale: 1/8" = 1'
Date: 9-27-19
DWG Type: SUBMITTAL DWG

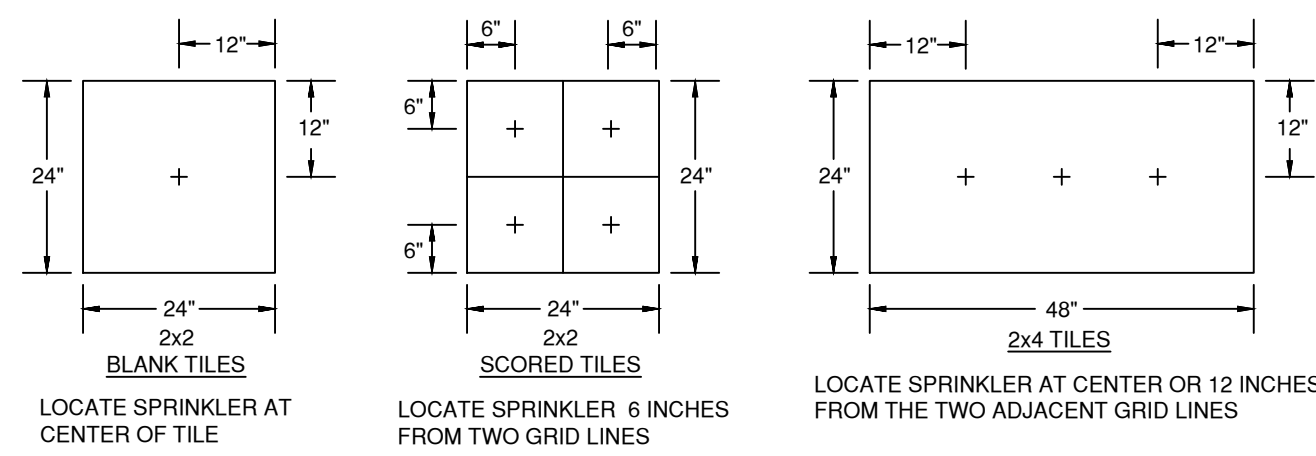
WILSON TRAILER
3602 BROADWAY AVE | YANKTON, SD 57078
DRIVEN FIRE CONSULTANTS
1402 NORTH LEWIS AVENUE, SIOUX FALLS, SD 57104 | PHONE: (605) 444-4208 | FAX: (605) 444-0203



A BUILDING SECTION
SCALE: 1/8" = 1'-0"



C BUILDING SECTION
SCALE: 1/8" = 1'-0"

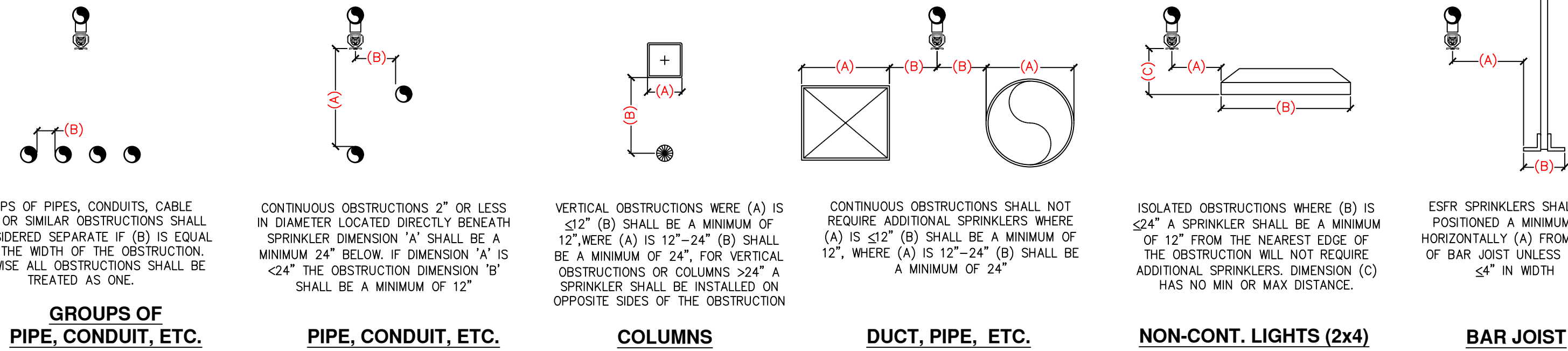


INSTALLATION DETAILS

SY	QTY**	POSITION	FINISH	TEMP	K	NPT	SN	MPG**	MODEL#	ESDUYCHON
60	PEND	WHITE	200	5.60	1/2"	TY323	TYCO	TY-FRB	SEMI-RECESSED	
28	PEND	WHITE	200	11.20	3/4"	TY5237	TYCO	EC-11	SEMI-RECESSED	
10	PEND	CHROME	212	11.20	3/4"	TY5211	TYCO	ELO-231	EXTENDED 40I	
6	PEND	WHITE	200	8.00	3/4"	TY4251	TYCO	TY-B	EXTENDED 40I	
2	PEND	WHITE	200	5.60	1"	TY3255	TYCO	DS-1	SEMI-RECESSED	
56	UPR	BRASS	200	8.00	3/4"	TY4151	TYCO	TY-B	NONE	
112	UPR	BRASS	286	8.00	3/4"	TY4131	TYCO	TY-FRB	NONE	
234	UPR	BRASS	286	11.20*	3/4"	TY5131	TYCO	ELO-231	NONE	
560	UPR	BRASS	286	14.00	3/4"	TY6137	TYCO	EC-14	NONE	
15	SPRG	BRASS	286	14.00	3/4"	TY6137	TYCO	EC-14	NONE	
89	PEND	BRASS	214	16.80	3/4"	TY2226	TYCO	ESFR-17	NONE	
14	SIDE	BRASS	286	5.60	1/2"	TY3351	TYCO	TY-B	NONE	
2	SIDE	CHROME	200	8.00	1"	WK2503	WIKING	WK2503	NONE	
1188	TOTAL									

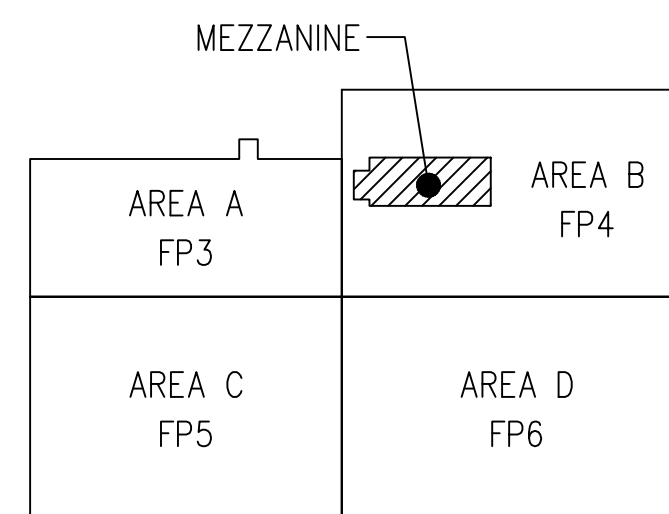
NOTES:
 * 8.0K SPRINKLER SHALL BE PERMITTED AT THE CONTRACTOR'S OPTION
 ** APPROVED EQUAL** SPRINKLERS ARE PERMITTED AT THE CONTRACTOR'S OPTION
 *** QUANTITIES OF SPRINKLER SHOWN IN THIS LEGEND REFLECT THE SPRINKLERS SHOWN ON THESE PLANS AND ARE SHOWN FOR REFERENCE ONLY. ADDITIONAL SPRINKLERS UNDER CATWALKS/PLATFORMS, UNDER AND AROUND OBSTRUCTIONS, AND IN ANY OTHER AREAS NECESSARY SHALL BE PROVIDED AT NO ADDITIONAL COST.

SPRINKLER LEGEND

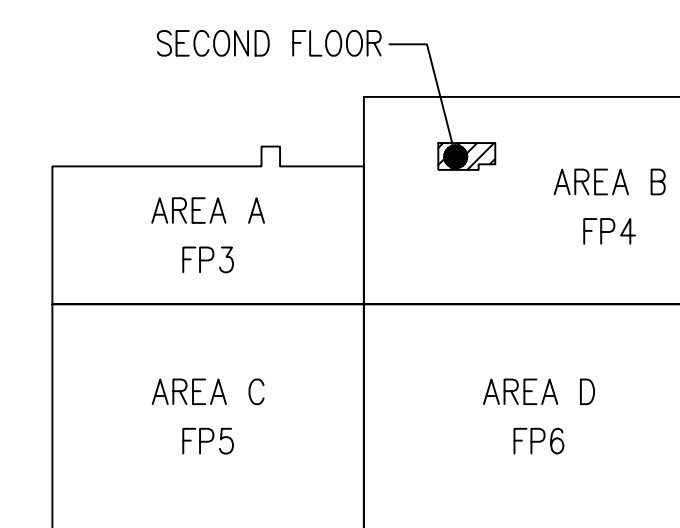


ESFR SPACING GUIDELINES

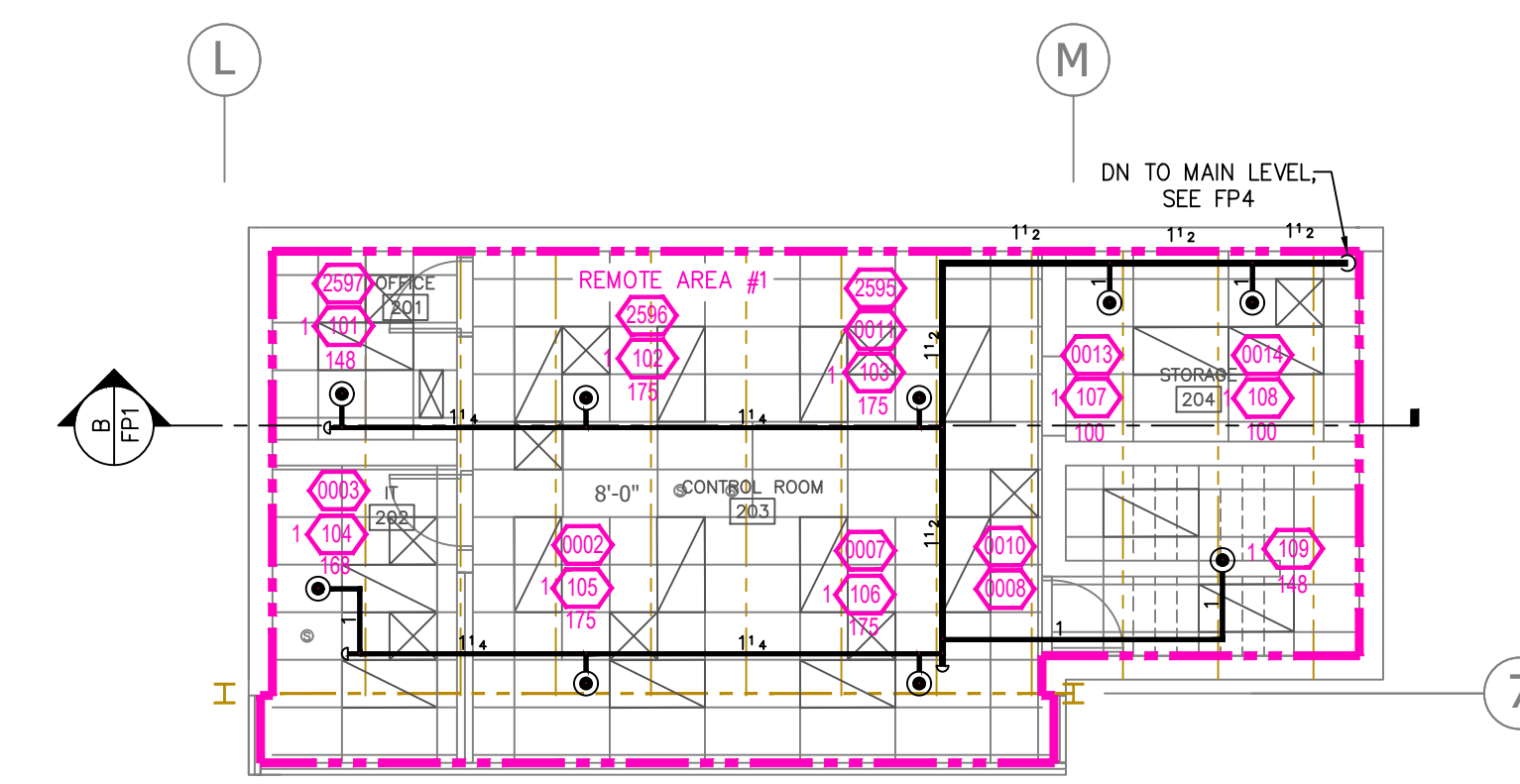
Design Area #	HAZARD	System Type	Location	Flowing Outlets	Density	Remote Area	Flow	Calculation Safety	Includes	NOTE
1	HAZARD: LIGHT	System Type: WET	Location: SECOND FLOOR OFFICE	9	0.10	925	278.6 gpm @ 115.6 psi	40.9 psi	100 gpm Hose allowance	1500 SF REDUCED BY 40% TO 900 SF PER NFPA 13 FIG. 19.3.3.2.1 DUE TO USE OF QUICK RESPONSE SPRINKLERS AND 8'-0" CEILING HEIGHT
2	HAZARD: LIGHT	System Type: WET	Location: MAIN LEVEL OFFICE	5	0.10	1400	315.5 gpm @ 139.3 psi	17 psi	100 gpm Hose allowance	1500 SF REDUCED BY 40% TO 900 SF PER NFPA 13 FIG. 19.3.3.2.1 DUE TO USE OF QUICK RESPONSE SPRINKLERS AND 8'-0" CEILING HEIGHT
3	HAZARD: STORAGE	System Type: WET	Location: FUTURE TIRE STORAGE	12	NA	12 SPK	1489.3 gpm @ 125.2 psi	18.5 psi	250 gpm Hose allowance	1500 SF NOT REDUCED DUE TO USE OF STANDARD RESPONSE SPRINKLERS
4	HAZARD: OH2	System Type: WET	Location: UNDER MEZZ	13	0.20	1500	625.5 gpm @ 122.7 psi	32.1 psi	250 gpm Hose allowance	1500 SF NOT REDUCED DUE TO USE OF STANDARD RESPONSE SPRINKLERS
5	HAZARD: STORAGE	System Type: WET	Location: TIRE STORAGE NEAR OFFICE	12	NA	12 SPK	928.1 gpm @ 91.8 psi	40 psi	250 gpm Hose allowance	1500 SF NOT REDUCED SINCE CEILING HEIGHT IS GREATER THAN 20'-0"
6	HAZARD: OH2	System Type: WET	Location: MANUFACTURING	8	0.20	1500	787.7 gpm @ 125.7 psi	27.6 psi	250 gpm Hose allowance	1500 SF NOT REDUCED SINCE CEILING HEIGHT IS GREATER THAN 20'-0"
7	HAZARD: OH2	System Type: WET	Location: MANUFACTURING/STORAGE	12	0.15/0.20	2000	1156.3 gpm @ 105.5 psi	44.7 psi	500 gpm Hose allowance	1500 SF NOT REDUCED SINCE CEILING HEIGHT IS GREATER THAN 20'-0"
8	HAZARD: STORAGE	System Type: WET	Location: MANUFACTURING	8	0.20	1500	780.2 gpm @ 73.9 psi	79.7 psi	250 gpm Hose allowance	1500 SF NOT REDUCED SINCE CEILING HEIGHT IS GREATER THAN 20'-0"
9	HAZARD: STORAGE	System Type: WET	Location: STORAGE	25	0.28	2000	1007.8 gpm @ 108.2 psi	51.6 psi	500 gpm Hose allowance	1500 SF NOT REDUCED SINCE CEILING HEIGHT IS GREATER THAN 20'-0"
10	HAZARD: STORAGE	System Type: WET	Location: MANUFACTURING	16	0.201	2000	760.2 gpm @ 73.9 psi	16.3 psi	250 gpm Hose allowance	1500 SF NOT REDUCED SINCE CEILING HEIGHT IS GREATER THAN 20'-0"
11	HAZARD: OH2	System Type: WET	Location: MANUFACTURING	10	0.20	1500	830.6 gpm @ 136.7 psi	16.3 psi	250 gpm Hose allowance	1500 SF NOT REDUCED SINCE CEILING HEIGHT IS GREATER THAN 20'-0"
12	HAZARD: OH2	System Type: WET	Location: MANUFACTURING	9	0.20	1500	780.2 gpm @ 73.9 psi	79.7 psi	250 gpm Hose allowance	1500 SF NOT REDUCED SINCE CEILING HEIGHT IS GREATER THAN 20'-0"
13	HAZARD: OH2	System Type: WET	Location: STORAGE	5	0.20	1500	760.2 gpm @ 73.9 psi	79.7 psi	250 gpm Hose allowance	1500 SF NOT REDUCED SINCE CEILING HEIGHT IS GREATER THAN 20'-0"
14	HAZARD: STORAGE	System Type: WET	Location: REMOTE TIRE STORAGE	10	0.18	1000	1283.8 gpm @ 122.2 psi	19.9 psi	250 gpm Hose allowance	1500 SF NOT REDUCED SINCE CEILING HEIGHT IS GREATER THAN 20'-0"
15	HAZARD: STORAGE	System Type: WET	Location: STORAGE	19	0.18	2000	1018.8 gpm @ 85.7 psi	66.2 psi	250 gpm Hose allowance	1500 SF NOT REDUCED SINCE CEILING HEIGHT IS GREATER THAN 20'-0"
16	HAZARD: OH2	System Type: WET	Location: MANUFACTURING	8	0.20	1500	780.2 gpm @ 73.9 psi	79.7 psi	250 gpm Hose allowance	1500 SF NOT REDUCED SINCE CEILING HEIGHT IS GREATER THAN 20'-0"
17	HAZARD: FH2	System Type: WET	Location: PAINT BOOTH	9	0.40	ALL	961.8 gpm @ 126.5 psi	25.9 psi	500 gpm Hose allowance	1500 SF NOT REDUCED SINCE CEILING HEIGHT IS GREATER THAN 20'-0"



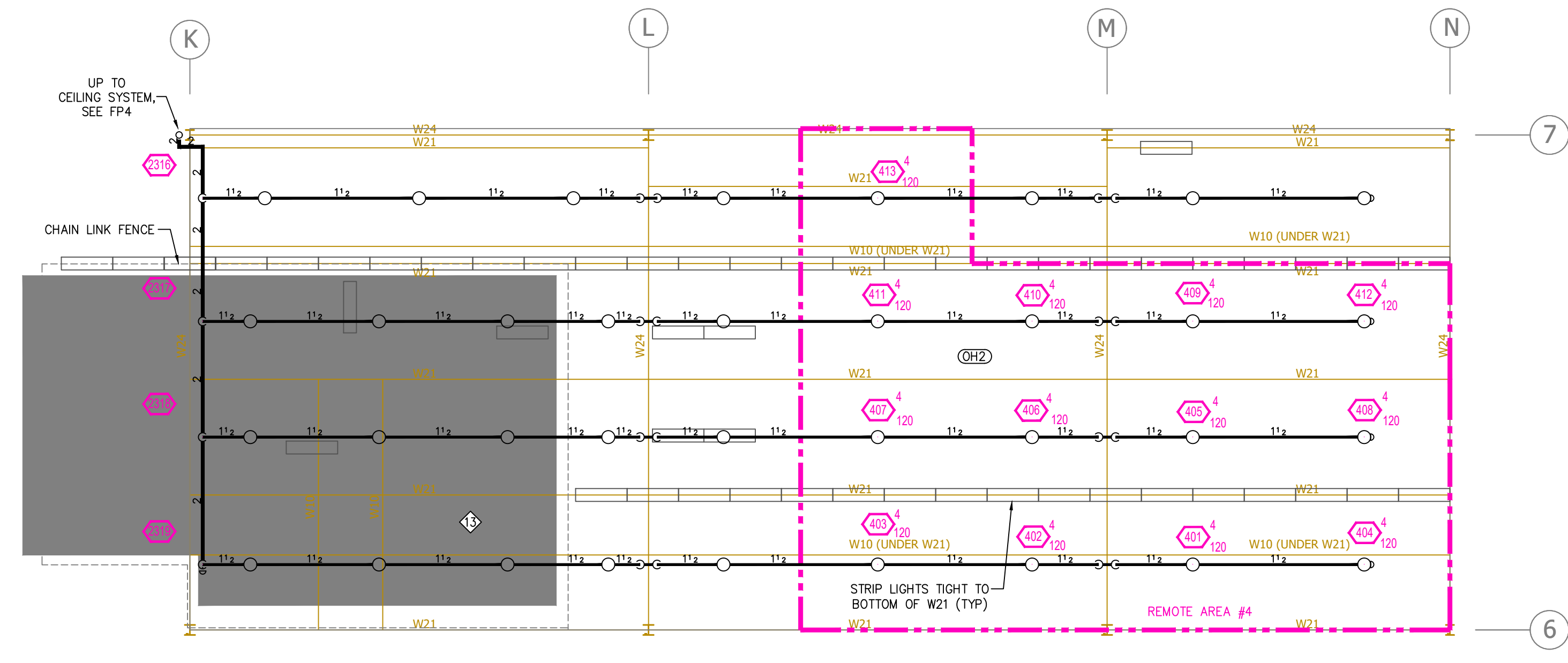
KEYPLAN
SCALE: NONE



KEYPLAN
SCALE: NONE



SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"



UNDER MEZZ FLOOR PLAN
SCALE: 1/8" = 1'-0"

KEYNOTE	COMMODITY CLASSIFICATION	STORAGE TYPE	STORAGE HEIGHT	CEILING HEIGHT	SPRINKLER TEMP	ENCAPSULATED (Y/N)	DENSITY	REDUCTION	ADJUSTED DENSITY	DESIGN AREA	HOSE (GPM)	NOTES
13	CLASS I/III	MISC.	12'-0"	13'-0"	ORDINARY	N	0.20	NA	0.20	1500 SF	250	AREA IS LOW-PILED STORAGE PER NFPA 13

HYDRAULIC CALCULATION SUMMARY

SYMBOLS

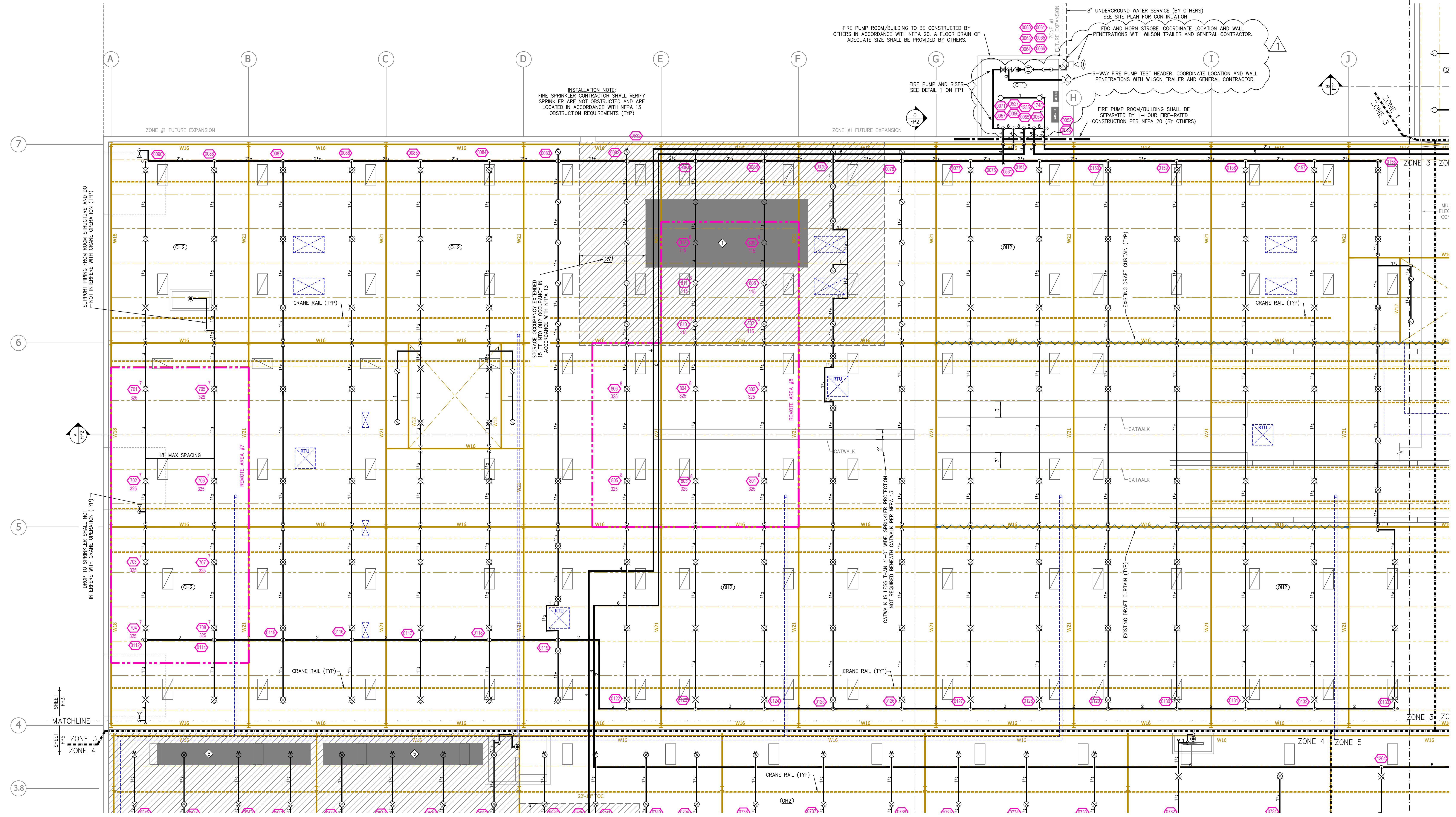
8'-0"	Ceiling Height
20'	Elev. Below Top of Slab
10'	Elev. Above Finished Floor
10'	Hydraulic Reference Point
+	Common Connection Point
+	Denotes Hanger Location
+	Rise up or down
+	Electrical Light
+	Room Hazard Classification
+	Sprinkler Head Code

REVISIONS

1	BID MTG COMMENTS
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Drawing Title: **FIRE PROTECTION PLAN**
 Project No.: FP579808
 Drawn By: [Signature]
 Scale: 1/8" = 1'
 Date: 9-27-19
 DWG Type: SUBMITAL DWG

WILSON TRAILER
 3602 BROADWAY AVE | YANKTON, SD 57078
DRIVEN
 FIRE CONSULTANTS
 4020 NORTH LEROY AVENUE, SUITE 100, RALPH, SD 57059 | (605) 444-2025



INSTALLATION NOTE:
FIRE SPRINKLER CONTRACTOR SHALL VERIFY
SPRINKLERS ARE NOT OBSTRUCTED AND ARE
LOCATED IN ACCORDANCE WITH NFPA 13
OBSTRUCTION REQUIREMENTS (TYP)

FIRE PUMP ROOM/BUILDING TO BE CONSTRUCTED BY
OTHERS IN ACCORDANCE WITH NFPA 20. A FLOOR DRAIN OF
ADEQUATE SIZE SHALL BE PROVIDED BY OTHERS.

8" UNDERGROUND WATER SERVICE (BY OTHERS)
SEE SITE PLAN FOR CONTINUATION
FDC AND HORN STROBE. COORDINATE LOCATION AND WALL
PENETRATIONS WITH WILSON TRAILER AND GENERAL CONTRACTOR.

6-WAY FIRE PUMP TEST HEADER. COORDINATE LOCATION AND WALL
PENETRATIONS WITH WILSON TRAILER AND GENERAL CONTRACTOR.

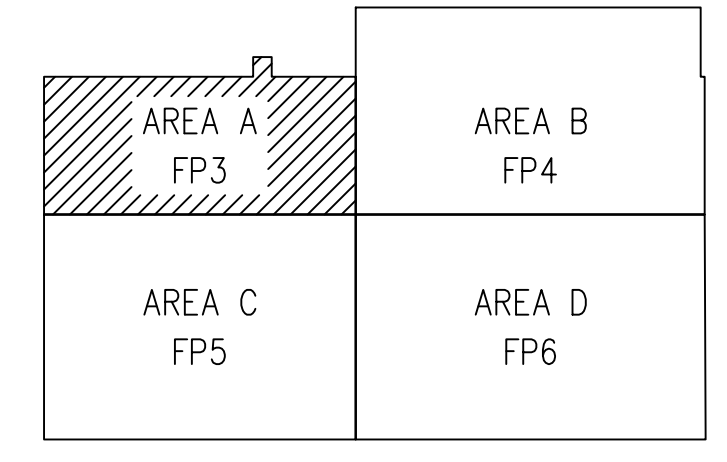
FIRE PUMP ROOM/BUILDING SHALL BE
SEPARATED BY 1-HOUR FIRE-RATED
CONSTRUCTION PER NFPA 20 (BY OTHERS)

MAIN FLOOR PLAN - AREA A
SCALE: 1/8" = 1'-0"

SYM	QTY	POSITION	FRESH	TEMP	K	NPY	SRN	MPG	MODEL#	ESCU/RECON
60	PEND	WHITE	200	5.60	1/2"	TY323	TYCO	TY-FRB	SEMI-RECESSED	
28	PEND	WHITE	200	11.20	3/4"	TY5237	TYCO	EC-11	SEMI-RECESSED	
10	PEND	CHROME	212	11.20	3/4"	TY5211	TYCO	ELO-231	EXTENDED 401	
5	PEND	WHITE	200	8.00	3/4"	TY4251	TYCO	TY-B	EXTENDED 401	
2	PEND	WHITE	200	5.60	1"	TY3255	TYCO	DS-1	SEMI-RECESSED	
56	UPR	BRASS	200	8.00	3/4"	TY4151	TYCO	TY-B	NONE	
112	UPR	BRASS	286	8.00	3/4"	TY4131	TYCO	TY-FRB	NONE	
234	UPR	BRASS	286	11.20*	3/4"	TY5131	TYCO	ELO-231	NONE	
260	UPR	BRASS	286	14.00	3/4"	TY6137	TYCO	EC-14	NONE	
15	SPRNG	BRASS	286	14.00	3/4"	TY6137	TYCO	EC-14	NONE	
89	PEND	BRASS	214	16.80	3/4"	TY7226	TYCO	ESFR-17	NONE	
14	SIDE	BRASS	286	5.60	1/2"	TY3251	TYCO	TY-B	NONE	
2	SIDE	CHROME	200	8.00	1"	VK2503	VIKING	VK2503	NONE	
1188	TOTAL									

NOTES:
* 8.0K SPRINKLER SHALL BE PERMITTED AT THE CONTRACTOR'S OPTION
** APPROVED EQUAL SPRINKLERS ARE PERMITTED AT THE CONTRACTOR'S OPTION
*** QUANTITIES OF SPRINKLER SHOWN IN THIS LEGEND REFLECT THE SPRINKLERS SHOWN ON THESE PLANS AND ARE SHOWN FOR REFERENCE ONLY. ADDITIONAL SPRINKLERS UNDER CATWALKS/PLATFORMS, UNDER AND AROUND OBSTRUCTIONS, AND IN ANY OTHER AREAS NECESSARY SHALL BE PROVIDED AT NO ADDITIONAL COST.

KEYNOTE	COMMODITY CLASSIFICATION	STORAGE TYPE	STORAGE HEIGHT	CEILING HEIGHT	SPRINKLER TEMP	ENCAPSULATED (Y/N)	DENSITY	REDUCTION	ADJUSTED DENSITY	DESIGN AREA	HOSE (GPM)	NOTES
◇	CLASS 1	SOLID-PILED	13'-0"	27'-4"	HIGH	N	0.16	Y (65%)	0.15	2000 SF	500	0.15 MIN DENSITY REQUIRED



KEYPLAN
SCALE: NONE

SYMBOLS

Symbol	Description
8'-0"	Ceiling Height
8'-0"	Elev. Below Top of Slab
8'-0"	Elev. Above Finished Floor
○	Hydraulic Reference Point
○	Common Connection Point
○	Denotes Hanger Location
○	Rise up or down
○	Electrical Light
○	Room Hazard Classification
○	Sprinkler Head Edge

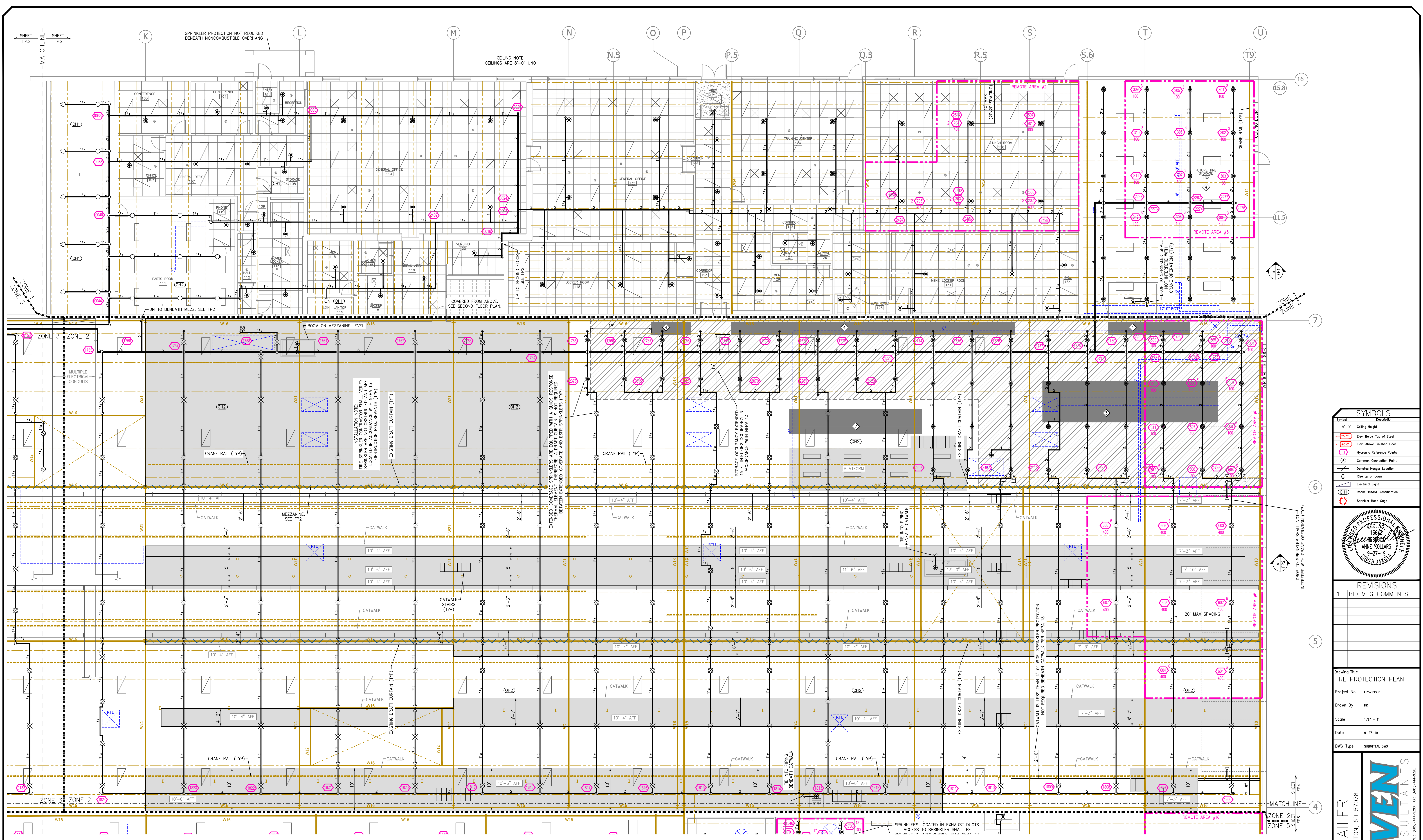


REVISIONS

No.	Description
1	BID MTG COMMENTS

Drawing Title: FIRE PROTECTION PLAN
Project No.: FP5719808
Drawn By: HK
Scale: 1/8" = 1'
Date: 9-27-19
DWG Type: SUBMITTAL DWG

WILSON TRAILER
3602 BROADWAY AVE | YANKTON, SD 57078
DRIVEN
FIRE CONSULTANTS
1400 NORTH LEWIS AVENUE, SUITE 100, EL DORADO, SD 57008 | (605) 444-9200



SYM	QTY	POSITION	FRESH	TEMP	K	NPT	SN	MPG	MODEL#	ESCALATION
60	PEND	WHITE	200	5.60	1/2"	TY323	TYCO	TY-FRB	SEMI-RECESSED	
28	PEND	WHITE	200	11.20	3/4"	TY5237	TYCO	EC-11	SEMI-RECESSED	
10	PEND	CHROME	212	11.20	3/4"	TY5211	TYCO	ELO-231	EXTENDED 401	
5	PEND	WHITE	200	8.00	3/4"	TY4251	TYCO	TY-B	EXTENDED 401	
2	PEND	WHITE	200	5.60	1"	TY3255	TYCO	DS-1	SEMI-RECESSED	
56	UPR	BRASS	200	8.00	3/4"	TY4151	TYCO	TY-B	NONE	
112	UPR	BRASS	286	8.00	3/4"	TY4131	TYCO	TY-FRB	NONE	
234	UPR	BRASS	286	11.20*	3/4"	TY5131	TYCO	ELO-231	NONE	
560	UPR	BRASS	286	14.00	3/4"	TY6137	TYCO	EC-14	NONE	
15	SPRG	BRASS	286	14.00	3/4"	TY6137	TYCO	EC-14	NONE	
88	PEND	BRASS	214	16.80	3/4"	TY2228	TYCO	ESPR-17	NONE	
14	SIDE	BRASS	286	5.60	1/2"	TY3251	TYCO	TY-B	NONE	
2	SIDE	CHROME	200	8.00	1"	VK2503	VIKING	VK2503	NONE	
1188	TOTAL									

NOTES:
 * 8.0K SPRINKLER SHALL BE PERMITTED AT THE CONTRACTOR'S OPTION
 ** APPROVED EQUAL SPRINKLERS ARE PERMITTED AT THE CONTRACTOR'S OPTION
 *** QUANTITIES OF SPRINKLER SHOWN IN THIS LEGEND REFLECT THE SPRINKLERS SHOWN ON THESE PLANS AND ARE SHOWN FOR REFERENCE ONLY. ADDITIONAL SPRINKLERS UNDER CATWALKS/PLATFORMS, UNDER AND AROUND OBSTRUCTIONS, AND IN ANY OTHER AREAS NECESSARY SHALL BE PROVIDED AT NO ADDITIONAL COST.

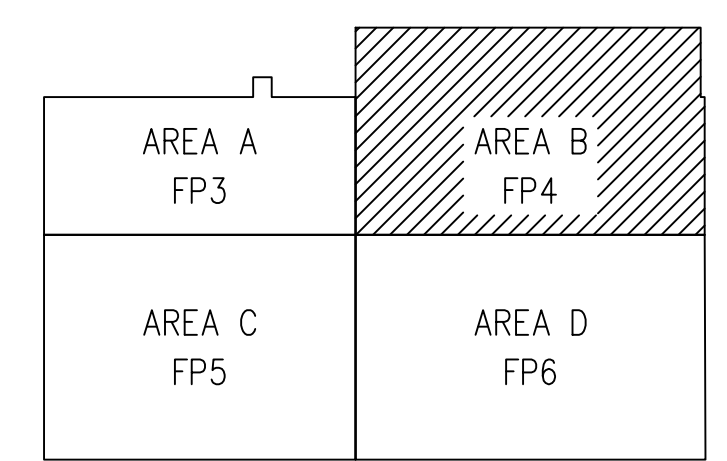
SPRINKLER LEGEND

STORAGE DESIGN INFORMATION												
KEYNOTE	COMMODITY CLASSIFICATION	STORAGE TYPE	STORAGE HEIGHT	CEILING HEIGHT	SPRINKLER TEMP	ENCAPSULATED (Y/N)	DENSITY	REDUCTION	ADJUSTED DENSITY	DESIGN AREA	HOSE (GPM)	NOTES
1	CLASS 1	OPEN RACK	12'-0"	27'-4"	HIGH	N	0.15	NA	0.20	1500 SF	250	AREA IS LOW-PILED STORAGE PER NFPA 13
2	CLASS 4	SOLID-PILED	12'-0"	27'-4"	ORDINARY	Y	NA	NA	NA	12 SPK	250	K16.8
3	RUBBER TIRES	OPEN RACK	16'-0"	27'-4"	ORDINARY	N	NA	NA	NA	12 SPK	250	K16.8

MAIN FLOOR PLAN - AREA B
 SCALE: 1/8" = 1'-0"

CATWALK AND PLATFORM NOTES:

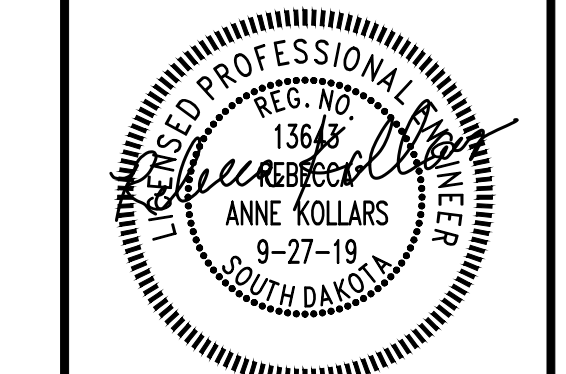
- SPRINKLER PROTECTION FOR CATWALKS AND PLATFORMS IS NOT SHOWN ON THESE PLANS; HOWEVER, CATWALKS AND PLATFORMS REQUIRING PROTECTION BENEATH ARE SHADDED FOR REFERENCE ON THESE PLANS.
- SPRINKLER PROTECTION SHALL BE PROVIDED BENEATH ALL CATWALKS AND PLATFORMS GREATER THAN 4'-0" WIDE PER NFPA 13.
- WHERE CATWALKS ARE DIFFERENT HEIGHTS, SPRINKLER PROTECTION SHALL BE PROVIDED BENEATH THE HIGHEST CATWALK PER NFPA 13.
- SPRINKLER PROTECTION SHALL BE PROVIDED BENEATH STAIRS LEADING TO CATWALKS AND PLATFORMS THAT ARE GREATER THAN 4'-0" WIDE PER NFPA 13.
- FIRE SPRINKLER CONTRACTOR SHALL DETERMINE AND FIELD VERIFY EXTENT OF PIPING, SPRINKLER HEADS, FITTINGS, HANGERS, AND LABOR TO PROPERLY PROVIDE AND INSTALL SPRINKLER PROTECTION UNDER AND AROUND ALL OBSTRUCTIONS TO OVERHEAD SPRINKLER DISCHARGE, INCLUDING, BUT NOT LIMITED TO, CATWALKS.
- SPRINKLERS SHALL BE LOCATED, SPACED, AND INSTALLATION IN ACCORDANCE WITH NFPA 13.
- SPRINKLERS AND PIPING SHALL NOT INTERFERE WITH CRANE AND OTHER EQUIPMENT OPERATION.
- SPRINKLER TYPE SHALL BE UPRIGHT AND PROTECTED WITH HEAD GUARDS (UNLESS NOT PERMITTED BY NFPA 13) UNDER CATWALKS AND PLATFORMS.
- PIPING SHALL BE INSTALLED TIGHT TO THE BOTTOM OF CATWALKS AND PLATFORMS AND IN A MANNER THAT SUITS EXISTING FIELD CONDITIONS.
- EXISTING CATWALKS AND PLATFORMS ARE COMPOSED OF STRUCTURAL TUBE STEEL.
- INSTALLATION SHALL BE COORDINATED WITH AND APPROVED BY WILSON TRAILER PRIOR TO INSTALL.



KEYPLAN
 SCALE: NONE

SYMBOLS

8'-0"	Ceiling Height
8'-0"	Elev. Below Top of Slab
8'-0"	Elev. Above Finished Floor
○	Hydraulic Reference Points
○	Common Connection Point
○	Detected Hanger Location
○	Rise up or down
○	Electrical Light
○	Room Hazard Classification
○	Sprinkler Head Code



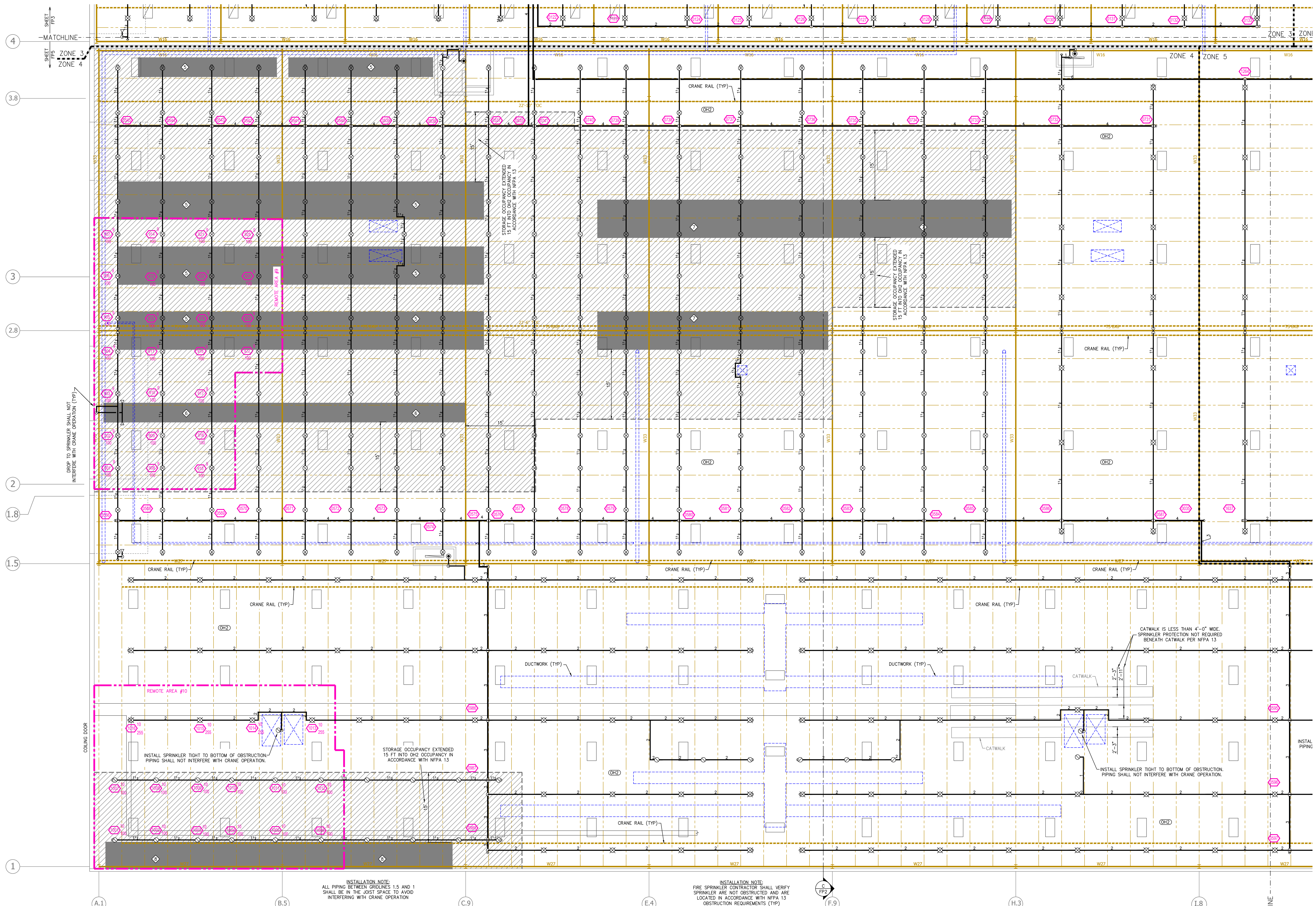
REVISIONS

NO.	DESCRIPTION
1	BID MTG COMMENTS

Drawing Title: **FIRE PROTECTION PLAN**
 Project No.: FP579808
 Drawn By: [Signature]
 Scale: 1/8" = 1'
 Date: 9-27-19
 DWG Type: SUBMITTAL DWG

WILSON TRAILER
 3602 BROADWAY AVE | YANKTON, SD 57078
DRIVEN
 FIRE CONSULTANTS
 4020 NORTH LEWIS AVENUE, SUITE 1000, SIOUX FALLS, SD 57104 | PHONE: (605) 444-9208 FAX: (605) 444-9203

FP 4 OF 6
 DWG SET: A



Symbol	Description
8'-0"	Ceiling Height
8'-0"	Elev. Below Top of Slab
8'-0"	Elev. Above Finished Floor
HP	Hydraulic Reference Point
CCP	Common Connection Point
DH	Denotes Hanger Location
UP	Rise up or down
EL	Electrical Light
RHC	Room Hazard Classification
SH	Sprinkler Head Code



REVISIONS	
1	BID MTG COMMENTS

Drawing Title
FIRE PROTECTION PLAN
 Project No. FP579808
 Drawn By: [Signature]
 Scale: 1/8" = 1'
 Date: 9-27-19
 DWG Type: SUBMITTAL DWG

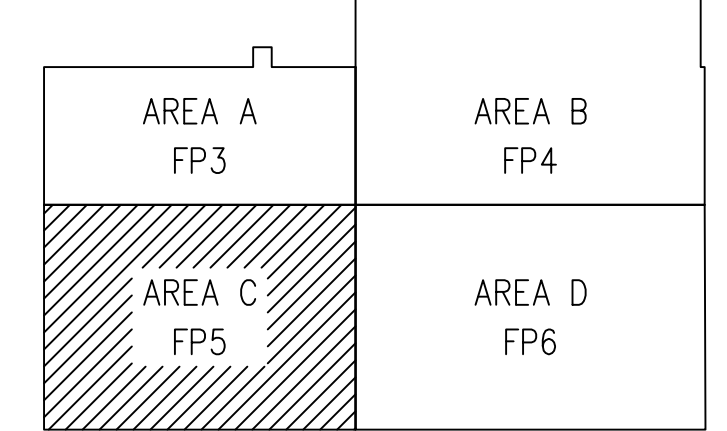
WILSON TRAILER
 3602 BROADWAY AVE | YANKTON, SD 57078
DRIVEN
 FIRE CONSULTANTS
 4030 NORTH LEXINGTON, SIOUX FALLS, SD 57104 PHONE: (605) 444-9288 FAX: (605) 444-9283

SYM	QTY**	POSITION	FINISH	TEMP	K	INPT	SN	MP#**	MODEL#	ESSTATION
60	PEND	WHITE	200	5.60	1/2"	TY323	TYCO	TY-FRB	TY-FRB	SEMI-RECESSED
28	PEND	WHITE	200	11.20	3/4"	TY5237	TYCO	EC-11	EC-11	SEMI-RECESSED
10	PEND	CHROME	212	11.20	3/4"	TY5211	TYCO	EL0-231	EL0-231	EXTENDED 401
6	PEND	WHITE	200	8.00	3/4"	TY4251	TYCO	TY-B	TY-B	EXTENDED 401
2	PEND	WHITE	200	5.60	1"	TY3255	TYCO	OS-1	OS-1	SEMI-RECESSED
56	UPR	BRASS	200	8.00	3/4"	TY4151	TYCO	TY-B	TY-B	NONE
112	UPR	BRASS	286	8.00	3/4"	TY4131	TYCO	TY-FRB	TY-FRB	NONE
234	UPR	BRASS	286	11.20*	3/4"	TY5131	TYCO	EL0-231	EL0-231	NONE
560	UPR	BRASS	286	14.00	3/4"	TY6137	TYCO	EC-14	EC-14	NONE
15	SPRNG	BRASS	286	14.00	3/4"	TY6137	TYCO	EC-14	EC-14	NONE
89	PEND	BRASS	214	16.80	3/4"	TY7226	TYCO	CSFA-17	CSFA-17	NONE
14	SIDE	BRASS	286	5.60	1/2"	TY3251	TYCO	TY-B	TY-B	NONE
2	SIDE	CHROME	200	8.00	1"	WK2503	WIKING	WK2503	WK2503	NONE
	1188	TOTAL								

NOTES:
 * 8.0K SPRINKLER SHALL BE PERMITTED AT THE CONTRACTOR'S OPTION
 ** APPROVED EQUAL SPRINKLERS ARE PERMITTED AT THE CONTRACTOR'S OPTION
 *** QUANTITIES OF SPRINKLER SHOWN IN THIS LEGEND REFLECT THE SPRINKLERS SHOWN ON THESE PLANS AND ARE SHOWN FOR REFERENCE ONLY. ADDITIONAL SPRINKLERS UNDER CATWALKS/PLATFORMS, UNDER AND AROUND OBSTRUCTIONS, AND IN ANY OTHER AREAS NECESSARY SHALL BE PROVIDED AT NO ADDITIONAL COST.

STORAGE DESIGN INFORMATION												
KEYNOTE	COMMODITY CLASSIFICATION	STORAGE TYPE	STORAGE HEIGHT	CEILING HEIGHT	SPRINKLER TEMP	ENCAPSULATED (Y/N)	DENSITY	REDUCTION	ADJUSTED DENSITY	DESIGN AREA	HOSE (GPM)	NOTES
1	CLASS I	OPEN RACK	19'-0"	27'-4"	HIGH	N	0.30	Y (92%)	0.28	2000 SF	500	6'-0" AISLE WIDTH, DENSITY DETERMINED THROUGH LINEAR INTERPOLATION
2	CLASS III	OPEN RACK	15'-0"	27'-4"	HIGH	N	0.37	Y (60%)	0.23	2000 SF	500	8'-0" AISLE WIDTH
3	CLASS I	OPEN RACK	15'-0"	27'-4"	HIGH	N	0.29	Y (60%)	0.18	2000 SF	500	8'-0" AISLE WIDTH
4	CLASS I	OPEN RACK	13'-0"	27'-4"	HIGH	N	0.29	Y (60%)	0.18	2000 SF	500	8'-0" AISLE WIDTH

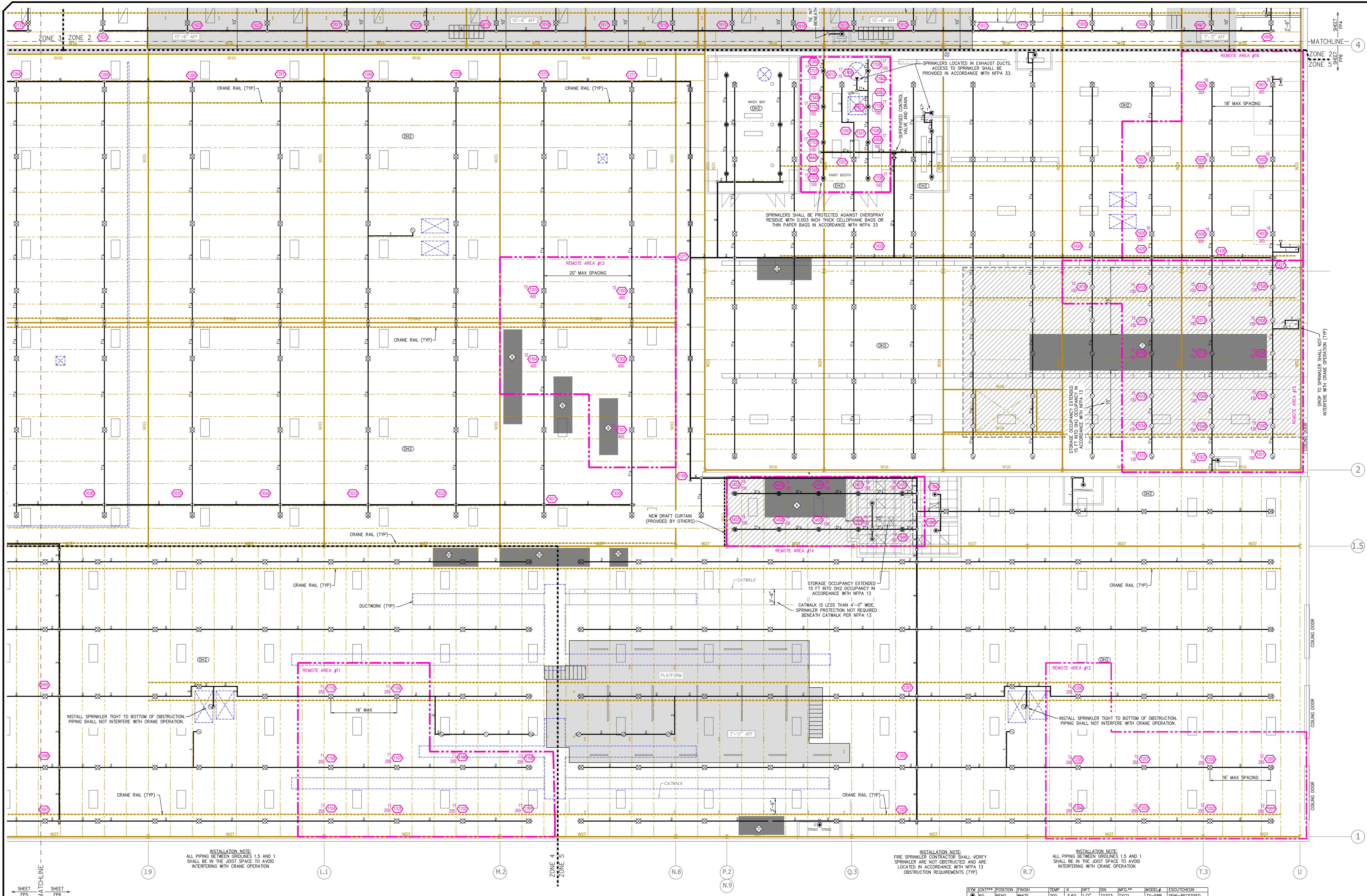
MAIN FLOOR PLAN - AREA C
 SCALE: 1/8" = 1'-0"



KEYPLAN
 SCALE: NONE

FP5 of 6
 DWG SET: A

SPRINKLER LEGEND



MAIN FLOOR PLAN - AREA D
SCALE: 1/8" = 1'-0"

SYMBOLS

8'-0"	Ceiling Height
10'-0"	Elev. Below Top of Steel
11'-0"	Elev. Above Finished Floor
12'-0"	Hydraulic Reference Points
13'-0"	Common Connection Point
14'-0"	Denotes Hanger Location
15'-0"	Rise up or down
16'-0"	Electrical Light
17'-0"	Room Hazard Classification
18'-0"	Sprinkler Head Code

PROFESSIONAL ENGINEER
REG. NO. 15847
ANNE KOLLARS
9-27-19
SOUTH DAKOTA

REVISIONS

1	BID MTG COMMENTS
---	------------------

Drawing Title: FIRE PROTECTION PLAN
Project No.: FP579808
Drawn By: [Signature]
Scale: 1/8" = 1'
Date: 9-27-19
DWG Type: SUBMITAL DWG

STORAGE DESIGN INFORMATION

KEYNOTE	COMMODITY CLASSIFICATION	STORAGE TYPE	STORAGE HEIGHT	CEILING HEIGHT	SPRINKLER TEMP	ENCAPSULATED (Y/N)	DENSITY	REDUCTION	ADJUSTED DENSITY	DESIGN AREA	HOSE (GPM)	NOTES
1	RUBBER TIRES	OPEN RACK	16'-0"	27'-4"	ORDINARY	N	NA	NA	NA	12 SPK	250	K16.8
2	CLASS I	OPEN RACK	12'-0"	27'-4"	HIGH	N	0.15	NA	0.20	1500 SF	250	AREAS ARE LOW-PILED STORAGE PER NFPA 13
3	CLASS I/III	RACK	10'-0"	27'-4"	HIGH	N	0.20	NA	0.20	1500 SF	250	AREAS ARE LOW-PILED STORAGE PER NFPA 13
4	CLASS I	OPEN RACK	9'-0"	27'-4"	HIGH	N	0.15	NA	0.20	1500 SF	250	AREA IS LOW-PILED STORAGE PER NFPA 13
5	CLASS I	OPEN RACK	12'-0"	27'-4"	HIGH	N	0.15	NA	0.20	1500 SF	250	AREAS ARE LOW-PILED STORAGE PER NFPA 13

IN-RACK SPRINKLERS SHALL NOT BE REQUIRED. WILSON TRAILER WILL REMOVE AND REPLACE SOLID SHELVING IN RACKS WITH SHELF AREAS EQUAL TO OR LESS THAN 20 SF OR INSTALL SHELVING HAVING WIRE MESH, SLATTED SURFACE, OR OTHER MATERIAL WITH OPENINGS REPRESENTING AT LEAST 50 PERCENT OF THE SHELF AREA INCLUDING AREA OF RACK MEMBERS AND WHERE FLUE SPACES ARE MAINTAINED.

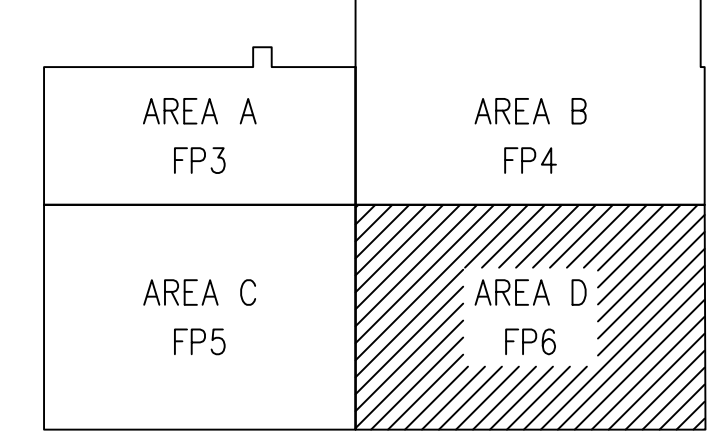
MAIN FLOOR PLAN - AREA D
SCALE: 1/8" = 1'-0"

CATWALK AND PLATFORM NOTES:

- SPRINKLER PROTECTION FOR CATWALKS AND PLATFORMS IS NOT SHOWN ON THESE PLANS; HOWEVER, CATWALKS AND PLATFORMS REQUIRING PROTECTION BENEATH ARE SHADDED FOR REFERENCE ON THESE PLANS.
- SPRINKLER PROTECTION SHALL BE PROVIDED BENEATH ALL CATWALKS AND PLATFORMS THAT ARE GREATER THAN 4'-0" WIDE PER NFPA 13.
- WHERE CATWALKS ARE DIFFERENT HEIGHTS, SPRINKLER PROTECTION SHALL BE PROVIDED BENEATH THE HIGHEST CATWALK PER NFPA 13.
- SPRINKLER PROTECTION SHALL BE PROVIDED BENEATH STAIRS LEADING TO CATWALKS AND PLATFORMS THAT ARE GREATER THAN 4'-0" WIDE PER NFPA 13.
- FIRE SPRINKLER CONTRACTOR SHALL DETERMINE AND FIELD VERIFY EXTENT OF PIPING, SPRINKLER HEADS, FITTINGS, HANGERS, AND LABOR TO PROPERLY PROVIDED AND INSTALL SPRINKLER PROTECTION UNDER AND AROUND ALL OBSTRUCTIONS TO OVERHEAD SPRINKLER DISCHARGE, INCLUDING, BUT NOT LIMITED TO, CATWALKS.
- SPRINKLERS SHALL BE LOCATED, SPACED, AND INSTALLED IN ACCORDANCE WITH NFPA 13.
- SPRINKLERS AND PIPING SHALL NOT INTERFERE WITH CRANE AND OTHER EQUIPMENT OPERATION.
- SPRINKLER TYPE SHALL BE UPRIGHT AND PROTECTED WITH HEAD GUARDS (UNLESS NOT PERMITTED BY NFPA 13) UNDER CATWALKS AND PLATFORMS.
- PIPING SHALL BE INSTALLED TIGHT TO THE BOTTOM OF CATWALKS AND PLATFORMS, AND IN A MANNER THAT SUITS EXISTING FIELD CONDITIONS.
- EXISTING CATWALKS AND PLATFORMS ARE COMPOSED OF STRUCTURAL TUBE STEEL.
- INSTALLATION SHALL BE COORDINATED WITH AND APPROVED BY WILSON TRAILER PRIOR TO INSTALL.

SPRINKLER LEGEND

SYM	CONT	POSITION	FINISH	TEMP	K	NPT	SIN	MFG.	MODEL#	ESD/CYCHRON
1	60	PEND	WHITE	200	5.60	1/2"	TY323	TYCO	TY-FRB	SEMI-RECESSED
2	28	PEND	WHITE	200	11.20	3/4"	TY337	TYCO	EC-11	SEMI-RECESSED
3	10	PEND	CHROME	212	11.20	3/4"	TY211	TYCO	ELO-231	EXTENDED 401
4	6	PEND	WHITE	200	8.00	3/4"	TY251	TYCO	TY-B	EXTENDED 401
5	2	PEND	WHITE	200	5.60	1"	TY325	TYCO	DS-1	SEMI-RECESSED
6	56	UPR	BRASS	200	8.00	3/4"	TY4151	TYCO	TY-B	NONE
7	112	UPR	BRASS	286	8.00	3/4"	TY431	TYCO	TY-FRB	NONE
8	224	UPR	BRASS	286	11.20	3/4"	TY331	TYCO	ELO-231	NONE
9	560	UPR	BRASS	286	14.00	3/4"	TY6137	TYCO	EC-14	NONE
10	15	PEND	BRASS	286	14.00	3/4"	TY6137	TYCO	EC-14	NONE
11	89	PEND	BRASS	214	16.80	3/4"	TY7226	TYCO	ESFR-17	NONE
12	114	SIDE	BRASS	286	5.60	1/2"	TY3351	TYCO	TY-B	NONE
13	2	SIDE	CHROME	200	8.00	1"	VK2503	Viking	VK2503	NONE
14	1188	TOTAL								



WILSON TRAILER
3602 BROADWAY AVE | YANKTON, SD 57078

DRIVEN
FIRE CONSULTANTS

4020 NORTH LEBLANC BLVD., SUITE 100, EL PASO, TX 75044 PHONE: (959) 444-9288 FAX: (959) 444-0323