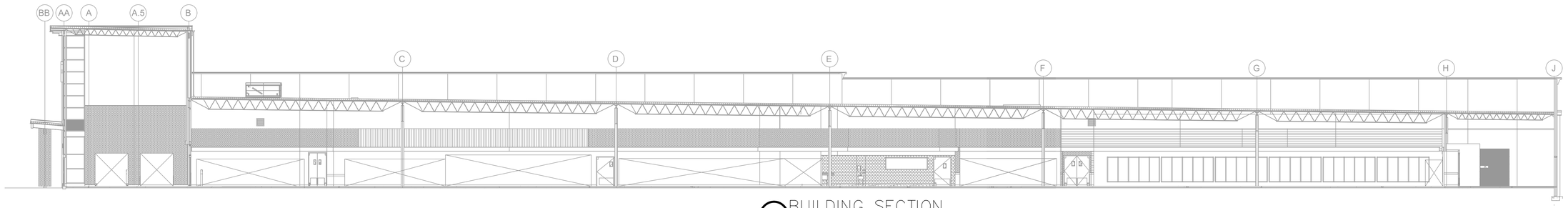


A BUILDING SECTION
SCALE: 3/32" = 1'-0"

GENERAL NOTES

1. INDIANA BUILDING CODE (2014)

   1.1. OCCUPANCY:BUSINESS (B); ASSEMBLY (A2&A3)
   1.2. TYPE OF CONSTRUCTION:IIB
   1.3. SPRINKLERED AREAS (APPROXIMATE – SEE ARCHITECTURAL PLANS FOR ACTUAL)
   TOTAL = 161,226 S.F.
   ZONE #1 WET = 41,513 S.F.
   ZONE #2 WET = 40,916 S.F.
   ZONE #3 WET = 38,107 S.F.
   ZONE #4 WET = 37,375 S.F.
   ZONE #5 DRY = 3,315 S.F.
   1.4. INSTALLATION STANDARDS:
   SPRINKLER SYSTEM DESIGNED AND INSTALLED PER NFPA–13 & NFPA 20(2010)

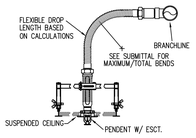
2. SPRINKLER PIPE TYPES:
   –WET–
   2.1. 1" BRANCH LINES TO BE BLK MEGA THREAD PIPING WITH THREADED FITTINGS
   2.2. 1¼" THROUGH 6" MAIN & BRANCH LINES TO BE BLK MEGA FLOW PIPING WITH GROOVED FITTINGS
   –DRY & PRE–ACTION–
   2.3. 1" BRANCH LINES TO BE THREADED GALV SCHEDULE 40 WITH GALV THREADED FITTINGS
   2.4. 1¼" THROUGH 4" MAIN & BRANCH LINES TO BE GROOVED GALV SCHEDULE 10 WITH GALV GROOVED FITTINGS

3. DESIGN CRITERIA
   3.1. AREAS NOT MARKS BY A HAZARD TAG WILL BE DESIGNED AS A LIGHT HAZARD, AREAS WILL BE DESIGNED TO DELIVER 0.10 GPM/S.F. OVER THE MOST DEMANDING 1500 S.F..
   (OH1) 3.2. ORDINARY HAZARD GROUP 1 AREAS DESIGNED TO DELIVER 0.15 GPM/S.F. OVER THE MOST DEMANDING 1500 S.F
   (OH2) 3.3. SALES FLOOR AREAS WILL BE DESIGNED AS AN ORDINARY HAZARD GROUP 2, AREAS WILL BE DESIGNED TO DELIVER 0.20 GPM/S.F. OVER THE MOST DEMANDING 1500 S.F.
   (SPC) 3.2. STOCK ROOM AND STORAGE AREAS DESIGNED WITH EC–25 UPRIGHT SPRINKLERS TO AN OWNER PROVIDED DESIGN DENSITY OF 0.45 GPM/S.F. OVER THE MOST DEMANDING 2000 S.F.
   (GAR) 3.3. THE GARDEN CENTER DRY SYSTEM WILL BE DESIGNED TO AN OWNER PROVIDED DESIGN DENSITY OF 0.19 GPM/S.F. OVER THE MOST REMOTE 3250 S.F. OR THE ENTIRE DRY SYSTEM
   3.4. REMOTE AREA REDUCTIONS HAVE BEEN TAKEN WHERE APPLICABLE PER NFPA 13 SEC. 11.2.3.2.3

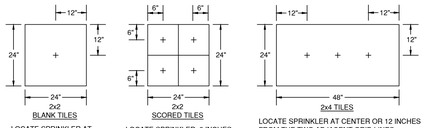
4. NOTES:
   4.1. ALL MATERIAL TO BE NEW AND MEET U.L. STANDARDS
   4.2. HANGERS TO BE INSTALLED IN ACCORDANCE WITH NFPA 13 (2010) – SEE PLAN FOR HANGING REQUIREMENTS
   4.3. DRY SYSTEM PIPE SLOPE INSTALLATION:
   SPRINKLER MAINS TO BE ¼" PER 10 FEET
   SPRINKLER BRANCH LINES TO BE ½" PER 10 FEET
   4.4. DRY - SYSTEM CAPACITY
   4.4.1. 202 GAL.

5. SYMBOLS USED ON DRAWINGS:
   -9'6" PIPE ELEVATION A.F.F
   +12" PIPE ELEVATION BELOW B.O.D
   (OH1) ROOM HAZARD CLASSIFICATION (ALL ROOMS ARE CONSIDERED LIGHT HAZARD UNLESS NOTED)
   (J1) HYDRAULIC CALCULATION JUNCTION POINT
   9'-0" CEILING HEIGHT

6. SCOPE OF WORK:
   6.1. CONSTRUCT A FIRE PUMP HOUSE PER NFPA 20 AS INDICATED ON THE PLANS PROVIDED
   6.2. INSTALL WATER BASED PROTECTION THROUGHOUT THE FACILITY AS INDICATED ON THE PLANS PROVIDED
   6.3. ALL AREAS OF THE BUILDING TO BE INSTALLED AND COVERED IN ACCORDANCE WITH THE LOCAL AUTHORITY HAVING JURISDICTION AND PER NFPA 13 (2010)

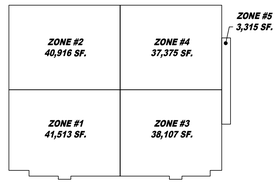


FLEXIBLE SPRINKLER DROP ASSEMBLY

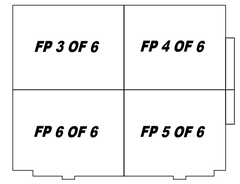


SPRINKLER PLACEMENT DETAIL

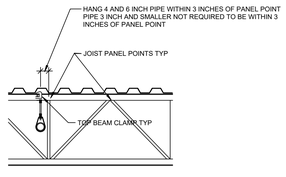
INSTALLATION DETAILS



ZONE MAP



SHEET MAP

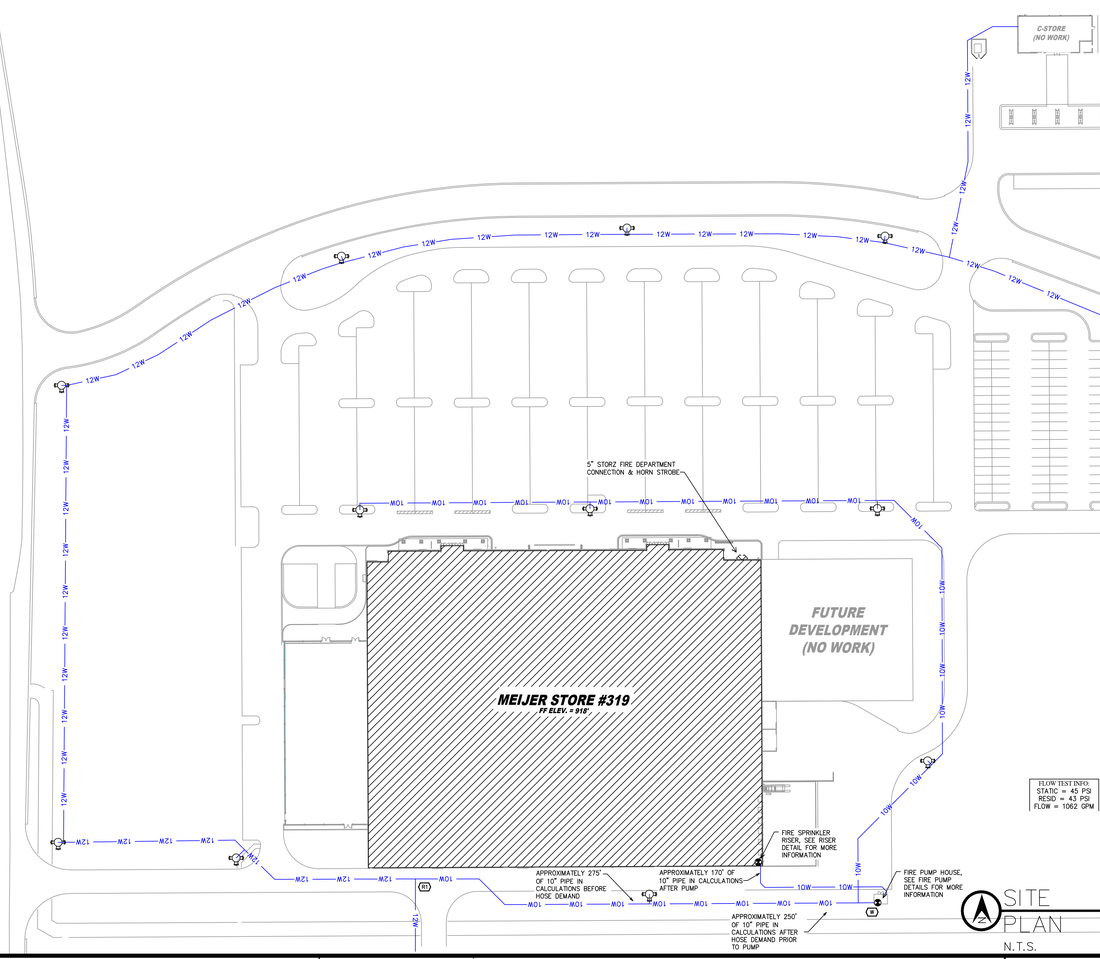


MAXIMUM HANGER SPACING FOR PIPING PERPENDICULAR TO JOISTS	
BEAM CLAMP NOT TRAPEZED	BEAM CLAMP NOT TRAPEZED (ROOF FRAMING PLAN SHADED AREA)
2" & 2-1/2" PIPE EVERY 10'-0" EVERY OTHER JOIST	2" & 2-1/2" PIPE EVERY 10'-0" EVERY OTHER JOIST
3" & 4" PIPE EVERY 6'-0" EVERY JOIST	3" & 4" PIPE EVERY 12'-0" EVERY OTHER JOIST
6" PIPE EVERY 6'-0" EVERY JOIST	6" PIPE EVERY 6'-0" EVERY JOIST

NO TRAPEZE HANGERS ARE ANTICIPATED TO BE INSTALLED ON THIS PROJECT. PIPE SIZES SHOWN IN THIS SUBMITTAL DO NOT REQUIRE TRAPEZE MEMBERS PER HANGER SCHEDULE PROVIDED BY THE DESIGN TEAM

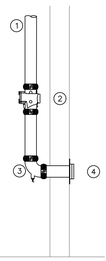
MAXIMUM HANGER SPACING FOR PIPES PARALLEL TO JOISTS		
2" & 2-1/2" PIPE EVERY 10'-0" NOT TRAPEZED BEAM CLAMP	3" & 4" PIPE EVERY 12'-0" NOT TRAPEZED BEAM CLAMP	6" PIPE EVERY 6'-0" NOT TRAPEZED BEAM CLAMP

HANGER DETAILS



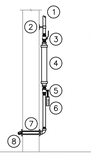
SITE PLAN
N.T.S.

FDC DETAIL LEGEND
1. 4" FROM MAIN RISER
2. 4" GROOVED CHECK VALVE
3. 4" GROOVED DRAIN 90 w/BALL DRIP
4. 4" X 5" STORZ FDC



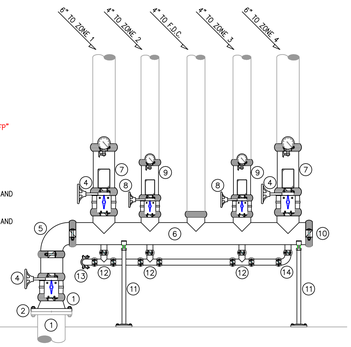
3 FDC DETAIL
SCALE: ½" = 1'–0"

DRUM DRIP DETAIL LEGEND
1. 1" FROM DRY SYSTEM LOW POINT
2. SECURE 1" TO EXTERIOR WALL
3. 1" BALL VALVE (N.O.)
4. 2" DRUM RIP BARREL, 12" MIN LENGTH
5. 1" BALL VALVE (N.C.)
6. DRUM DRIP SIGNAGE
7. 1" GALV. PIPE TO EXTERIOR
8. 1" GALV. 45 WITH WALL PLATE



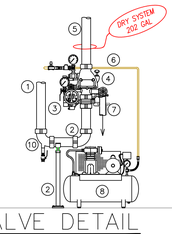
4 DRUM DRIP DETAIL
SCALE: ½" = 1'–0"

RISER LEGEND
1. 10" WATER UNDERGROUND SERVICE FROM PUMP HOUSE (BY OTHERS)
(FLUSHING & TESTING OF THE UNDERGROUND SHALL BE COMPLETED PRIOR TO THE SPRINKLER SYSTEM HOOKUP. UNDERGROUND PAPERS ARE TO BE SUPPLIED TO THE "FP" CONTRACTOR BY THE G.C.)
2. 10" GROOVE FLANGE ADAPTOR
3. 10" X 6" GROOVED CONCENTRIC REDUCER
4. 6" GROOVE BUTTERFLY VALVE w/TAMPER (N.O.)
5. 6" GROOVED 90
6. 6" WELDED MANIFOLD
7. 6" GROOVED COMMERCIAL RISER MANIFOLD w/ 2" TEST & DRAIN, PRESSURE GAUGE, AND FLOW SWITCH
8. 4" GROOVE BUTTERFLY VALVE w/TAMPER (N.O.)
9. 4" GROOVED COMMERCIAL RISER MANIFOLD w/ 2" TEST & DRAIN, PRESSURE GAUGE, AND FLOW SWITCH
10. JOCKEY PUMP CONTROLLER
11. PIPE STAND
12. 2" GROOVED TEE
13. 2" MAIN DRAIN TO EXTERIOR
14. 2" GROOVED 90



1 RISER DETAIL
SCALE: ½" = 1'–0"

DRY RISER LEGEND
1. FED FROM ZONE #3 4" FLOAT MAIN
2. 4" GROOVED 90 ELBOW
3. 4" GROOVED BUTTERFLY VALVE W/ TAMPER
4. 4" GROOVED DRY VALVE DPV1 W/ GALV TRIM
5. TO NEW DRY SYSTEM ABOVE ADDITION
6. 2" COPPER AIR LINE TO DRY VALVE
7. 2" MAIN DRAIN TO BE PIPED TO FLOOR DRAIN/ OUT SIDE. COORDINATE ON SITE.
8. AIR COMPRESSOR
9. PIPE STAND
10. 4" DRAIN 90 WITH 1" BALL VALVE FOR LOW POINT DRAIN



2 DRY VALVE DETAIL
SCALE: ½" = 1'–0"

THIS SPRINKLER WORK IS DESIGNED IN ACCORDANCE WITH N.F.P.A. PAMPHLET 13 2010 EDITION

ALARM SYSTEM BY OWNER, TO BE CENTRAL STATION PER NFPA, STATE AND LOCAL REQUIREMENTS

WALL CLOSED OFF TO DECK
WALL CLOSED OFF TO BOTTOM OF JOIST
INTERIOR WALLS OPEN ABOVE CEILINGS
ROOF AREAS WITH ADDED LOAD ALLOWANCES, SEE HANGER DETAILS FOR MORE INFORMATION

WALL / HATCH LEGEND

SYM	CNT	POSITION	FINISH	TEMP	K	NPT	SIN	MFG.	MODEL#	ESCUTCHEON
⊗	170	UPR	BRASS	214	25.20	1"	TY9128	Tyco	EC–25	NONE
⊠	401	UPR	BRASS	200	14.00	3/4"	TY6137	Tyco	EC–14	NONE
○	91	UPR	BRASS	200	8.00	3/4"	TY4131	Tyco	TY–FRB	NONE
◉	62	PEND	WHITE	200	14.00	3/4"	TY6237	Tyco	EC–14	SEMI–REC
◉	27	PEND	WHITE	200	5.60	1/2"	TY3233	Tyco	TY–FRB	SEMI–REC
◉	63	PEND	WHITE	200	5.60	1"	V3506	VIC	VS–1	SEMI–REC
⊠	2	UPR	BRASS	200	14.00	3/4"	TY6137	Tyco	EC–14	NONE
ⓘ	1	UPR	BRASS	200	8.00	3/4"	TY4131	Tyco	TY–FRB	NONE
◁	7	SIDE	BRASS	200	5.60	1/2"	TY3331	Tyco	TY–FRB	NONE
	824	TOTAL								

SPRINKLER HEAD LEGEND

This Sprinkler System Design is by: Jared Van Gammeren Nicet Level III # 122149

CONTRACTOR:

ADDRESS:

REVISION

DATE	DESCRIPTION	BY

IMPORTANT
TO PREVENT FREEZING OF WATER IN WET PIPE SPRINKLER PIPING, OWNERS TO PROVIDE SUFFICIENT HEAT THROUGHOUT AREAS WHERE SPRINKLER PIPES ARE INSTALLED, UNLESS AN ANTI–FREEZE SYSTEM.

MEIJER STORE #319
225 W. SPRING MILL POINTE DR. HAMILTON COUNTY, WESTFIELD, IN 46074

SPRINKLER PLAN

NORTH

DESIGNER	JVG
SCALE	1/8 " = 1'–0"
CHECK BY	RG
FILE NUMBER	
APPROVAL	STATE & LOCAL
DATE	6–15–20
DRAWING NO.	FP–1 of 6

BUILDING NOTES:

1. FIRE PUMP HOUSE TO BE ALL METAL CONSTRUCTION.
2. BRICK TO BE TABS II BRICK WALL SYSTEM WITH 4" X 12" DIMENSIONS. PAINTING CONTRACTOR TO PAINT BRICK TO MATCH MEIJER SPEC.
3. PROVIDE A WET PIPE AUTOMATIC FIRE SPRINKLER SYSTEM FOR THE PUMP HOUSE.
4. ELECTRICAL CONTRACTOR: TO PROVIDE ALL NECESSARY ELECTRICAL WORK FOR THE PRE FAB STRUCTURE. EC SHALL MOUNT / INSTALL THE FIRE PUMP CONTROLLER, JOCKEY PUMP CONTROLLER, WIRE / CONNECT JOCKEY & FIRE PUMP AND PROVIDE ALL NECESSARY CONNECTIONS / WIRE BETWEEN THE PUMPS, THE CONTROLLER AND THE TRANSFORMER. ELECTRICAL CONTRACTOR SHALL ALSO PROVIDE POWER TO PUMP HOUSE. PROVIDE GROUNDING AND CONFIRM COMPLIANCE WITH ALL LOCAL CODES.
6. ALARM CONTRACTOR: TO PROVIDE ALL FIRE AND SECURITY ALARM SYSTEMS AND CONNECTIONS PER INDIANA CODE.
7. SITE CONTRACTOR: TO PROVIDE TWO 10" DUCTILE UNDERGROUND FIRE LEAD INS FOR THE PUMP 12" ABOVE FINISH FLOOR AND TWO HOLED. SITE CONTRACTOR SHALL ALSO FLUSH BOTH CONNECTIONS AND PROVIDE AN NFPA ABOVE GROUND TEST CERT TO ROCKFORD CONST.
6. PUMP HOUSE PER PROVIDED SPEC

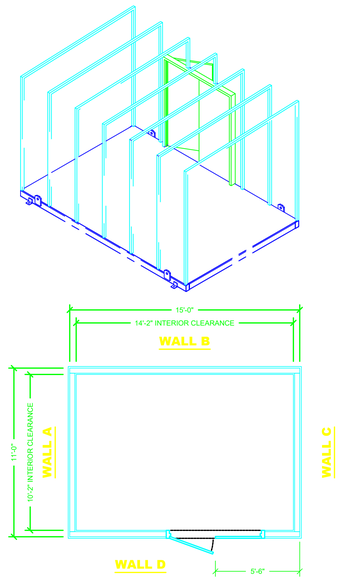
10. NOT INCLUDED: ROOF ACCESS, 2 HR FIRE WALLS, ELECTRICAL GROUNDING OF HOUSE, FOUNDATION, GRANULAR FILL, AND CONCRETE PAD (DESIGN AND INSTALL).

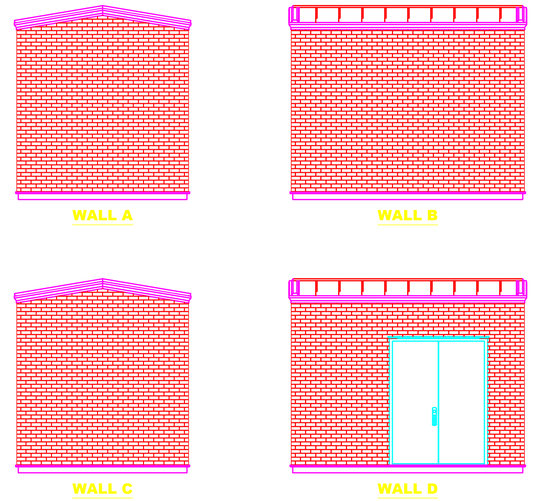
FIRE PROTECTION NOTES:

1. FIRE PUMP: PEERLESS MODEL 6AEF14G (8X6) CAST IRON BRONZE FITTED UL LISTED AND FM APPROVED 1250 GPM @ 60 PSI FIRE PUMP DRIVEN BY A 60 HP, 1800 RPM 460V/3PHASE/60Hz, UL LISTED ODP MOTOR, ROTATION TBD. PUMP SIZE BASED ON FP DRAWINGS.
2. MOTOR CONTROL: MANUAL AND AUTOMATIC, SOLID STATE CONTROLLER RATED FOR 60HP, 460V/3 PHASE/60HZ OPERATION WITH 100,000 AMP WITHSTAND RATING, NEMA TYPE 2 ENCLOSURE, SOFT START. NO TRANSFER SWITCH. CONTROLLER PROVIDED BY FP CONTRACTOR.
3. JOCKEY PUMP AND JOCKEY PANEL: GRUNDFOS CR3-9 1.5HP, 460V. JOCKEY PUMP RATED FOR 8GPM @ 90 PSI, WITH TEFC MOTOR, CAST IRON BASE WITH 1" OVAL FLANGES.

   JOCKEY PUMP MOTOR CONTROLLED BY A FIRETROL FTA550F 1.5 HP, MANUAL AND AUTOMATIC JOCKEY PUMP, INCLUDING PRESSURE SWITCH, DISCONNECT SWITCH AND HAND- OFF- AUTOMATIC SELECTOR SWITCH. CONTROLLER PROVIDED BY FP CONTRACTORR.

CONFIRMATION ITEMS:

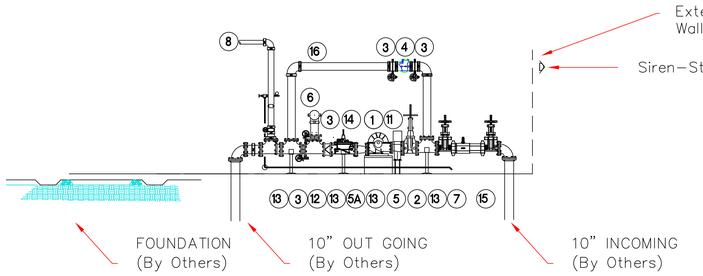




FDC CONNECTION TO BE STORZ TYPE ON WALL "C"

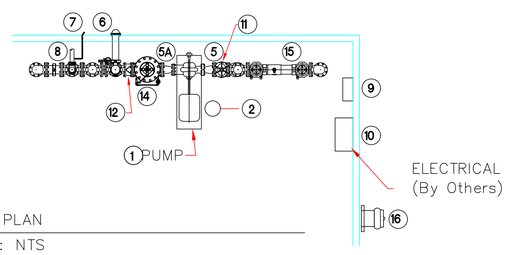
NOTES: FURNISED AS CORRECTED

FP ACTION: ADDED FDC CONNECTION TO WALL "C" AS REQUESTED.



PUMP PLAN

SCALE: NTS



PUMP PLAN

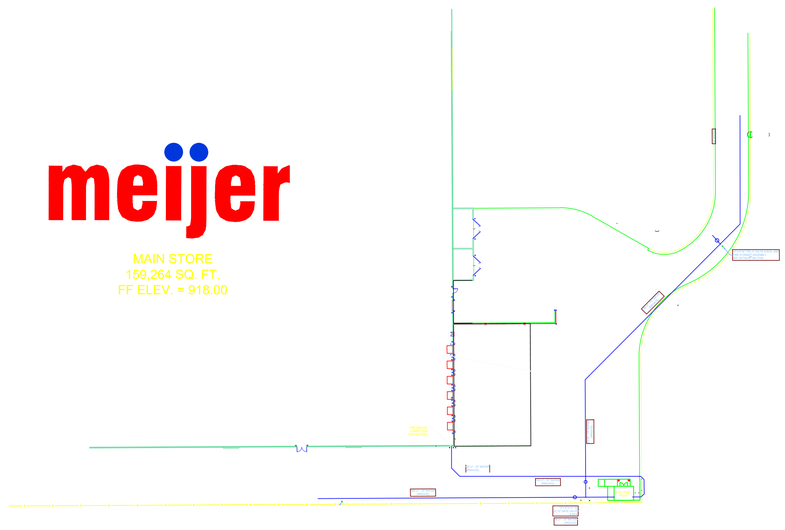
SCALE: NTS

MATERIAL LIST

1	FIRE PUMP 1250 GPM & 60 PSI PER FP DRAWING & PAD
2	JOCKEY PUMP 8 GPM & 90 PSI
3	8" GROOVED END BUTTERFLY VALVE, WITH TAMPER SWITCH
4	8" GROOVED END CHECK VALVE
5	8" X 5" FLANGED ECCENTRIC REDUCER
5A	8" X 3" FLANGED CONCENTRIC REDUCER
6	PUMP TEST HEAD
7	2" MAIN DRAIN
8	SPRINKLER RISER
9	JOCKEY PUMP CONTROLLER
10	FIRE PUMP CONTROLLER
11	8" FLG. OS&Y CONTROL VALVE w/ TAMPER
12	8" WAFER CHECK
13	PIPE STAND
14	LOW SUCTION
15	8" AMES DOUBLE CHECK
16	FDC COONECTION
16	FDC FIELD NOTE: FIELD LOCATE FDC CONNECTION ON WALL "C". CONNECTION TO BE STORZ TYPE. FDC SUPPY POINT SHALL BE ON THE SYSTEM SIDE OF THE BYPASS.

meijer

MAIN STORE
159,264 SQ. FT.
FF ELEV. = 918.00



PARTIAL SITE UTILITY

SCALE: NTS

THIS SPRINKLER WORK IS DESIGNED IN ACCORDANCE WITH N.F.P.A. PAMPHLET 13 2010 EDITION

ALARM SYSTEM BY OWNER, TO BE CENTRAL STATION PER NFPA, STATE AND LOCAL REQUIREMENTS

WALL CLOSED OFF TO DECK
WALL CLOSED OFF TO BOTTOM OF JOIST
INTERIOR WALLS OPEN ABOVE CEILINGS
ROOF AREAS WITH ADDED LOAD ALLOWANCES, SEE HANGER DETAILS FOR MORE INFORMATION

WALL / HATCH LEGEND

SYM	CNT	POSITION	FINISH	TEMP	K	NPT	SIN	MFG.	MODEL#	ESCUTCHEON
⊗	170	UPR	BRASS	214	25.20	1"	TY9128	Tyco	EC-25	NONE
⊠	401	UPR	BRASS	200	14.00	3/4"	TY6137	Tyco	EC-14	NONE
○	91	UPR	BRASS	200	8.00	3/4"	TY4131	Tyco	TY-FRB	NONE
⊗	62	PEND	WHITE	200	14.00	3/4"	TY6237	Tyco	EC-14	SEMI-REC
◉	27	PEND	WHITE	200	5.60	1/2"	TY323	Tyco	TY-FRB	SEMI-REC
◉	63	PEND	WHITE	200	5.60	1"	V3506	VIC	VS-1	SEMI-REC
⊠	2	UPR	BRASS	200	14.00	3/4"	TY6137	Tyco	EC-14	NONE
◎	1	UPR	BRASS	200	8.00	3/4"	TY4131	Tyco	TY-FRB	NONE
◁	7	SIDE	BRASS	200	5.60	1/2"	TY3331	Tyco	TY-FRB	NONE
	824	TOTAL								

SPRINKLER HEAD LEGEND

CONTRACTOR:

ADDRESS:

REVISION

DATE	DESCRIPTION	BY

IMPORTANT
TO PREVENT FREEZING OF WATER IN WET PIPE SPRINKLER PIPING, OWNERS TO PROVIDE SUFFICIENT HEAT THROUGHOUT AREAS WHERE SPRINKLER PIPES ARE INSTALLED, UNLESS AN ANTI-FREEZE SYSTEM.

MEIJER STORE #319

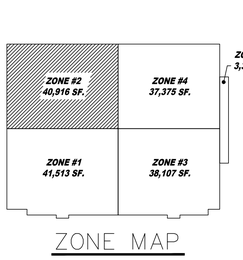
225 W. SPRING MILL POINTE DR. HAMILTON COUNTY, WESTFILED, IN 46074

SPRINKLER PLAN

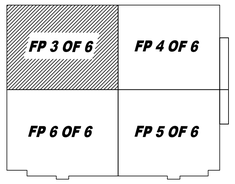
NORTH

DESIGNER	JVG
SCALE	1/8 " = 1'-0"
CHECK BY	RC
FILE NUMBER	
APPROVAL	STATE & LOCAL
DATE	6-15-20
DRAWING NO.	FP-2 of 6

This Sprinkler System Design is by: Jared Van Gammeren Nicet Level III # 122149



ZONE MAP



SHEET MAP

10" SERVICE FROM PUMP HOUSE, SEE SITE MAP FOR MORE DETAILS

FIRE SPRINKLER RISER MANIFOLD, SEE DETAIL 1 ON FP 1 FOR MORE INFO.

HATCH AREA INDICATES ROOF AREAS WITH ADDED STRUCTURAL LOAD ALLOWANCES, SEE HANGER DETAILS FOR MORE INFORMATION

HATCH AREA INDICATES ROOF AREAS WITH ADDED STRUCTURAL LOAD ALLOWANCES, SEE HANGER DETAILS FOR MORE INFORMATION

REMOTE AREA #6

GROCERY BACKROOM 165 (SPC)

4" BLACK LIGHTWALL PIPING TO FDC

HIGH TEMP EC-25 UPRIGHT SPRINKLER NOT AVAILABLE, UNIT HEATER LOCATIONS WILL NEED TO BE ADJUSTED TO ACCOMMODATE SPECIFIC APPLICATION SPRINKLERS USED IN THESE AREAS

EXIT CORRIDOR 143 (SPC)

HIGH TEMP EC-25 UPRIGHT SPRINKLER NOT AVAILABLE, UNIT HEATER LOCATIONS WILL NEED TO BE ADJUSTED TO ACCOMMODATE SPECIFIC APPLICATION SPRINKLERS USED IN THESE AREAS

GENERAL MERCHANDISE BACKROOM 142 (SPC)

YOGURT COOLER 163 (OH2)

INSTALL HEADS UNDER OVERHEAD DOORS (TYP.)

DROP 1" TO 1'-0" ABOVE COOLER CEILING, INSTALL "DRY VIC FLEX" COOLER HEAD IN DROP (TYP.)

RECEIVING 145 (SPC)

(OH2) DAIRY COOLER 144

INSTALL HEADS UNDER OVERHEAD DOORS (TYP.)

DROP 1" TO 1'-0" ABOVE COOLER CEILING, INSTALL "DRY VIC FLEX" COOLER HEAD IN DROP (TYP.)

HIGH TEMP EC-25 UPRIGHT SPRINKLER NOT AVAILABLE, UNIT HEATER LOCATIONS WILL NEED TO BE ADJUSTED TO ACCOMMODATE SPECIFIC APPLICATION SPRINKLERS USED IN THESE AREAS

1 1/2" TO HEAD UNDER DUCTWORK (TYP.)

(OH2) GROCERY 100E

1 1/2" TO HEAD UNDER DUCTWORK (TYP.)

HATCH AREA INDICATES ROOF AREAS WITH ADDED STRUCTURAL LOAD ALLOWANCES, SEE HANGER DETAILS FOR MORE INFORMATION

FREEZER 147 (OH2)

REMOTE AREA #5

MEAT SEAFOOD 151

(OH2) MEAT PREP 148

SEAFARE/DELI COOLER (OH2) 149

REMOTE AREA #5

REMOTE AREA #4

REMOTE AREA #4

OPEN TO ATMOSPHERE, NO PROTECTION REQUIRED

MATCHLINE

ZONE 2 SHEET FP3

ZONE 4 SHEET FP4

ZONE 1 SHEET FP6

ZONE 3 SHEET FP5

ZONE 2 ZONE 4

ZONE 1 ZONE 3

ZONE 2 ZONE 4

ZONE 1 ZONE 3

Design Area #: **6**	HAZARD: **SPECIAL**
Zone: **2**	System Type: **WET**
Location: **GEN. MECH. BACK ROOM**	
Flowing Outlets: **15**	
Density: **0.45** Remote Area: **2058**	
Req. @ Inside Riser "W" (BCR): Flow: **939** gpm @ **57.9** psi	
Req. @ City Supply Flow: **1439** gpm @ **2.7** psi	
Calculation Safety: **38.8** psi	
Includes **500** gpm Hose allowance	

SPECIFIC DESIGN CRITERIA PROVIDED BY DESIGN TEAM OF 0.45 GPM / S.F. OVER THE MOST REMOTE 2,000 S.F. WITH THE USE OF THE TYCO EC-25 UPRIGHT SPRINKLER

CALC PLACARD

Design Area #: **8**	HAZARD: **SPECIAL**
Zone: **2**	System Type: **WET**
Location: **GROCERY BACK ROOM**	
Flowing Outlets: **17**	
Density: **0.45** Remote Area: **2615**	
Req. @ Inside Riser "W" (BOR): Flow: **1031** gpm @ **63.0** psi	
Req. @ City Supply Flow: **1531** gpm @ **9.8** psi	
Calculation Safety: **31.3** psi	
Includes **600** gpm Hose allowance	

SPECIFIC DESIGN CRITERIA PROVIDED BY DESIGN TEAM OF 0.45 GPM / S.F. OVER THE MOST REMOTE 2,000 S.F. WITH THE USE OF THE TYCO EC-25 UPRIGHT SPRINKLER

Design Area #: **4**	HAZARD: **OH2**
Zone: **4**	System Type: **WET**
Location: **SALES FLOOR WEST**	
Flowing Outlets: **5**	
Density: **0.20** Remote Area: **1758**	
Req. @ Inside Riser "W" (BOR): Flow: **421** gpm @ **65.7** psi	
Req. @ City Supply Flow: **671** gpm @ **2.4** psi	
Calculation Safety: **41.8** psi	
Includes **250** gpm Hose allowance	

SPECIFIC DESIGN CRITERIA PROVIDED BY DESIGN TEAM OF 0.18 GPM / S.F. OVER THE MOST REMOTE 2,500 S.F. WITH THE USE OF THE TYCO EC-14 UPRIGHT SPRINKLER. THESE SPECIFIC APPLICATION SPRINKLER CUT SHEETS ONLY ALLOW FOR LIGHT, OH1 AND OH2 DESIGN DISCHARGES THEREFORE A 0.20 GPM / S.F. OVER THE MOST REMOTE 1,500 S.F. WITH A MINIMUM OF 5 HEADS WERE CALCULATED WITH A MINIMUM DISCHARGE OF 80 GPM PER SPRINKLER FOR A MAXIMUM SPACING OF 20'x20'

SOUTH EAST ZONE #2 FIRE SPRINKLER PLAN

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

THIS SPRINKLER WORK IS DESIGNED IN ACCORDANCE WITH N.F.P.A. PAMPHLET 13 2010 EDITION

ALARM SYSTEM BY OWNER, TO BE CENTRAL STATION PER NFPA, STATE AND LOCAL REQUIREMENTS

This Sprinkler System Design is by: Jared Van Gammeren Nicet Level III # 122149

WALL CLOSED OFF TO DECK

WALL CLOSED OFF TO BOTTOM OF JOIST

INTERIOR WALLS OPEN ABOVE CEILINGS

ROOF AREAS WITH ADDED LOAD ALLOWANCES, SEE HANGER DETAILS FOR MORE INFORMATION

WALL / HATCH LEGEND

SYM	CNT	POSITION	FINISH	TEMP	K	NPT	SIN	MFG.	MODEL#	ESCUTCHEON
⊗	170	UPR	BRASS	214	25.20	1"	TY9128	Tyco	EC-25	NONE
⊠	401	UPR	BRASS	200	14.00	3/4"	TY6137	Tyco	EC-14	NONE
○	91	UPR	BRASS	200	8.00	3/4"	TY4131	Tyco	TY-FRB	NONE
◉	62	PEND	WHITE	200	14.00	3/4"	TY6237	Tyco	EC-14	SEMI-REC
◉	27	PEND	WHITE	200	5.60	1/2"	TY323	Tyco	TY-FRB	SEMI-REC
◉	63	PEND	WHITE	200	5.60	1"	V3506	VIC	VS-1	SEMI-REC
⊠	2	UPR	BRASS	200	14.00	3/4"	TY6137	Tyco	EC-14	NONE
◎	1	UPR	BRASS	200	8.00	3/4"	TY4131	Tyco	TY-FRB	NONE
◁	7	SIDE	BRASS	200	5.60	1/2"	TY3331	Tyco	TY-FRB	NONE
	824	TOTAL								

SPRINKLER HEAD LEGEND

CONTRACTOR:

ADDRESS:

REVISION

DATE	DESCRIPTION	BY

IMPORTANT

TO PREVENT FREEZING OF WATER IN WET PIPE SPRINKLER PIPING, OWNERS TO PROVIDE SUFFICIENT HEAT THROUGHOUT AREAS WHERE SPRINKLER PIPES ARE INSTALLED, UNLESS AN ANTI-FREEZE SYSTEM.

MEIJER STORE #319

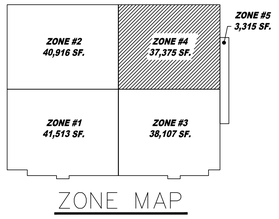
225 W. SPRING MILL POINTE DR. HAMILTON COUNTY, WESTFILED, IN 46074

SPRINKLER PLAN

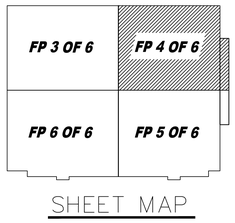
NORTH

DESIGNER	JVG
SCALE	1/8 " = 1'-0"
CHECK BY	RC
FILE NUMBER	
APPROVAL	STATE & LOCAL
DATE	6-15-20

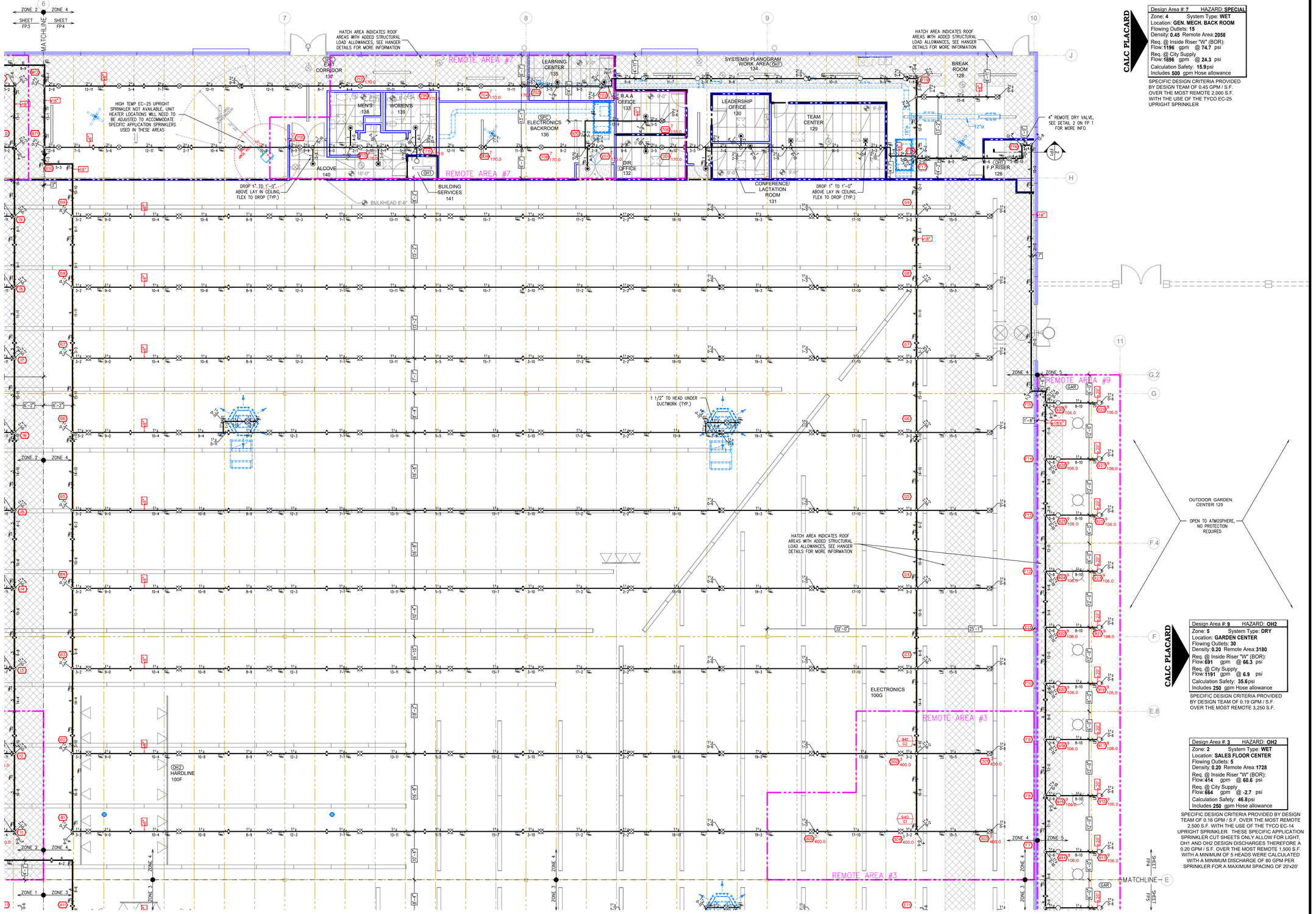
DRAWING NO. **FP-3 of 6**



ZONE MAP



SHEET MAP



CALC PLACARD

Design Area #: **7** HAZARD: **SPECIAL**
Zone: **4** System Type: **WET**
Location: **GEN. MECH. BACK ROOM**
Flowing Outlets: **15**
Density: **0.45** Remote Area: **2058**
Req. @ Inside Riser "W" (BOR): Flow: **1196** gpm @ **74.7** psi
Req. @ City Supply Flow: **1696** gpm @ **24.3** psi
Calculation Safety: **15.9** psi
Includes **500** gpm Hose allowance

SPECIFIC DESIGN CRITERIA PROVIDED BY DESIGN TEAM OF 0.45 GPM / S.F. OVER THE MOST REMOTE 2,000 S.F. WITH THE USE OF THE TYCO EC-25 UPRIGHT SPRINKLER

CALC PLACARD

Design Area #: **9** HAZARD: **OH2**
Zone: **5** System Type: **DRY**
Location: **GARDEN CENTER**
Flowing Outlets: **30**
Density: **0.20** Remote Area: **3180**
Req. @ Inside Riser "W" (BOR): Flow: **691** gpm @ **66.3** psi
Req. @ City Supply Flow: **1191** gpm @ **6.9** psi
Calculation Safety: **35.6** psi
Includes **250** gpm Hose allowance

SPECIFIC DESIGN CRITERIA PROVIDED BY DESIGN TEAM OF 0.19 GPM / S.F. OVER THE MOST REMOTE 3,250 S.F.

Design Area #: **3** HAZARD: **OH2**
Zone: **2** System Type: **WET**
Location: **SALES FLOOR CENTER**
Flowing Outlets: **5**
Density: **0.20** Remote Area: **1728**
Req. @ Inside Riser "W" (BOR): Flow: **414** gpm @ **60.6** psi
Req. @ City Supply Flow: **664** gpm @ **-2.7** psi
Calculation Safety: **46.8** psi
Includes **250** gpm Hose allowance

SPECIFIC DESIGN CRITERIA PROVIDED BY DESIGN TEAM OF 0.18 GPM / S.F. OVER THE MOST REMOTE 2,500 S.F. WITH THE USE OF THE TYCO EC-14 UPRIGHT SPRINKLER. THESE SPECIFIC APPLICATION SPRINKLER CUT SHEETS ONLY ALLOW FOR LIGHT, OH1 AND OH2 DESIGN DISCHARGES THEREFORE A 0.20 GPM / S.F. OVER THE MOST REMOTE 1,500 S.F. WITH A MINIMUM OF 5 HEADS WERE CALCULATED WITH A MINIMUM DISCHARGE OF 80 GPM PER SPRINKLER FOR A MAXIMUM SPACING OF 20'x20'

SOUTH WEST ZONE #4 FIRE SPRINKLER PLAN

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

THIS SPRINKLER WORK IS DESIGNED IN ACCORDANCE WITH N.F.P.A. PAMPHLET 13 2010 EDITION

ALARM SYSTEM BY OWNER, TO BE CENTRAL STATION PER NFPA, STATE AND LOCAL REQUIREMENTS

WALL CLOSED OFF TO DECK
WALL CLOSED OFF TO BOTTOM OF JOIST
INTERIOR WALLS OPEN ABOVE CEILINGS

ROOF AREAS WITH ADDED LOAD ALLOWANCES, SEE HANGER DETAILS FOR MORE INFORMATION

WALL / HATCH LEGEND

SYM	CNT	POSITION	FINISH	TEMP	K	NPT	SIN	MFG.	MODEL#	ESCUTCHEON
⊗	170	UPR	BRASS	214	25.20	1"	TY9128	Tyco	EC-25	NONE
⊠	401	UPR	BRASS	200	14.00	3/4"	TY6137	Tyco	EC-14	NONE
○	91	UPR	BRASS	200	8.00	3/4"	TY4131	Tyco	TY-FRB	NONE
◉	62	PEND	WHITE	200	14.00	3/4"	TY6237	Tyco	EC-14	SEMI-REC
◉	27	PEND	WHITE	200	5.60	1/2"	TY3223	Tyco	TY-FRB	SEMI-REC
◉	63	PEND	WHITE	200	5.60	1"	V3506	VIC	VS-1	SEMI-REC
⊠	2	UPR	BRASS	200	14.00	3/4"	TY6137	Tyco	EC-14	NONE
◎	1	UPR	BRASS	200	8.00	3/4"	TY4131	Tyco	TY-FRB	NONE
◁	7	SIDE	BRASS	200	5.60	1/2"	TY3331	Tyco	TY-FRB	NONE
	824	TOTAL								

SPRINKLER HEAD LEGEND

CONTRACTOR:

ADDRESS:

REVISION

DATE	DESCRIPTION	BY

IMPORTANT
TO PREVENT FREEZING OF WATER IN WET PIPE SPRINKLER PIPING, OWNERS TO PROVIDE SUFFICIENT HEAT THROUGHOUT AREAS WHERE SPRINKLER PIPES ARE INSTALLED, UNLESS AN ANTI-FREEZE SYSTEM.

This Sprinkler System Design is by: Jared Van Gammeren Nicet Level III # 122149

MEIJER STORE #319

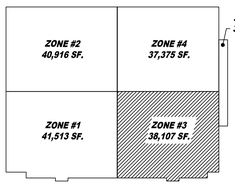
225 W. SPRING MILL POINTE DR. HAMILTON COUNTY, WESTFILED, IN 46074

SPRINKLER PLAN

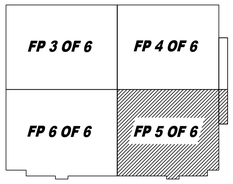
NORTH

DESIGNER	JVG
SCALE	1/8 " = 1'-0"
CHECK BY	RG
FILE NUMBER	
APPROVAL	STATE & LOCAL
DATE	6-15-20

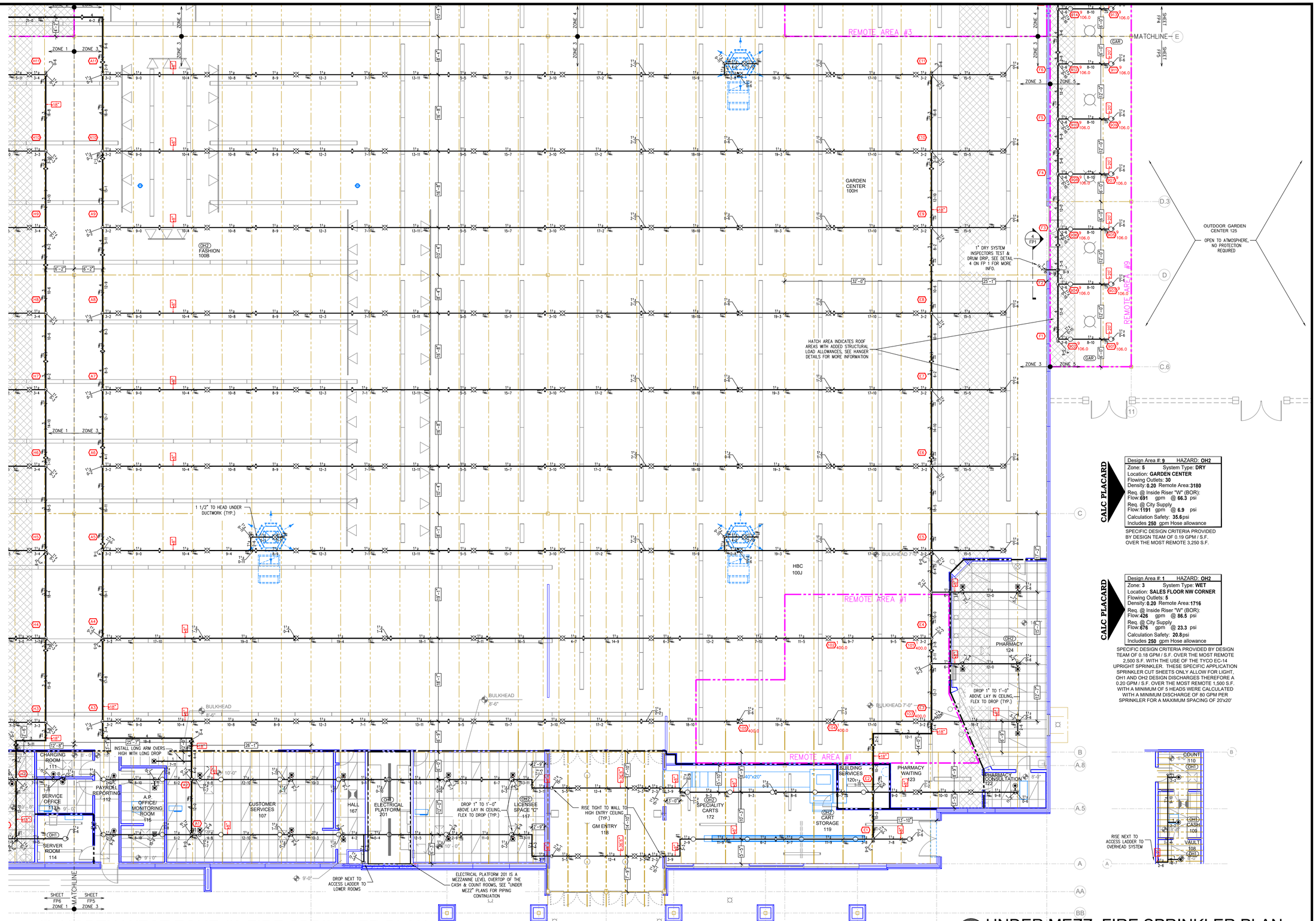
DRAWING NO. **FP-4 of 6**



ZONE MAP



SHEET MAP



NORTH WEST ZONE #3 FIRE SPRINKLER PLAN

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

UNDER MEZZ. FIRE SPRINKLER PLAN

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

CALC PLACARD

Design Area #: **9** HAZARD: **OH2**
Zone: **5** System Type: **DRY**
Location: **GARDEN CENTER**
Flowing Outlets: **30**
Density: **0.20** Remote Area: **3180**
Req. @ Inside Riser "W" (BOR):
Flow: **691** gpm @ **66.3** psi
Req. @ City Supply
Flow: **1191** gpm @ **6.9** psi
Calculation Safety: **35.6** psi
Includes **250** gpm Hose allowance

SPECIFIC DESIGN CRITERIA PROVIDED BY DESIGN TEAM OF 0.19 GPM / S.F. OVER THE MOST REMOTE 3,250 S.F.

CALC PLACARD

Design Area #: **1** HAZARD: **OH2**
Zone: **3** System Type: **WET**
Location: **SALES FLOOR NW CORNER**
Flowing Outlets: **5**
Density: **0.20** Remote Area: **1716**
Req. @ Inside Riser "W" (BOR):
Flow: **426** gpm @ **86.5** psi
Req. @ City Supply
Flow: **676** gpm @ **23.3** psi
Calculation Safety: **20.8** psi
Includes **250** gpm Hose allowance

SPECIFIC DESIGN CRITERIA PROVIDED BY DESIGN TEAM OF 0.18 GPM / S.F. OVER THE MOST REMOTE 2,500 S.F. WITH THE USE OF THE TYCO EC-14 UPRIGHT SPRINKLER. THESE SPECIFIC APPLICATION SPRINKLER CUT SHEETS ONLY ALLOW FOR LIGHT, OH1 AND OH2 DESIGN DISCHARGES THEREFORE A 0.20 GPM / S.F. OVER THE MOST REMOTE 1,500 S.F. WITH A MINIMUM OF 5 HEADS WERE CALCULATED WITH A MINIMUM DISCHARGE OF 80 GPM PER SPRINKLER FOR A MAXIMUM SPACING OF 20'x20'

THIS SPRINKLER WORK IS DESIGNED IN ACCORDANCE WITH N.F.P.A. PAMPHLET 13 2010 EDITION

ALARM SYSTEM BY OWNER, TO BE CENTRAL STATION PER NFPA, STATE AND LOCAL REQUIREMENTS

This Sprinkler System Design is by: Jared Van Gammeren Nicet Level III # 122149

WALL CLOSED OFF TO DECK
WALL CLOSED OFF TO BOTTOM OF JOIST
INTERIOR WALLS OPEN ABOVE CEILINGS
ROOF AREAS WITH ADDED LOAD ALLOWANCES, SEE HANGER DETAILS FOR MORE INFORMATION

WALL / HATCH LEGEND

SYM	CNT	POSITION	FINISH	TEMP	K	NPT	SIN	MFG.	MODEL#	ESCUTCHEON
⊗	170	UPR	BRASS	214	25.20	1"	TY9128	Tyco	EC-25	NONE
⊠	401	UPR	BRASS	200	14.00	3/4"	TY6137	Tyco	EC-14	NONE
○	91	UPR	BRASS	200	8.00	3/4"	TY4131	Tyco	TY-FRB	NONE
◉	62	PEND	WHITE	200	14.00	3/4"	TY6237	Tyco	EC-14	SEMI-REC
◉	27	PEND	WHITE	200	5.60	1/2"	TY323	Tyco	TY-FRB	SEMI-REC
◉	63	PEND	WHITE	200	5.60	1"	V3506	VIC	VS-1	SEMI-REC
⊠	2	UPR	BRASS	200	14.00	3/4"	TY6137	Tyco	EC-14	NONE
◎	1	UPR	BRASS	200	8.00	3/4"	TY4131	Tyco	TY-FRB	NONE
◁	7	SIDE	BRASS	200	5.60	1/2"	TY3331	Tyco	TY-FRB	NONE
	824	TOTAL								

SPRINKLER HEAD LEGEND

CONTRACTOR:

ADDRESS:

REVISION

DATE	DESCRIPTION	BY

IMPORTANT
TO PREVENT FREEZING OF WATER IN WET PIPE SPRINKLER PIPING, OWNERS TO PROVIDE SUFFICIENT HEAT THROUGHOUT AREAS WHERE SPRINKLER PIPES ARE INSTALLED, UNLESS AN ANTI-FREEZE SYSTEM.

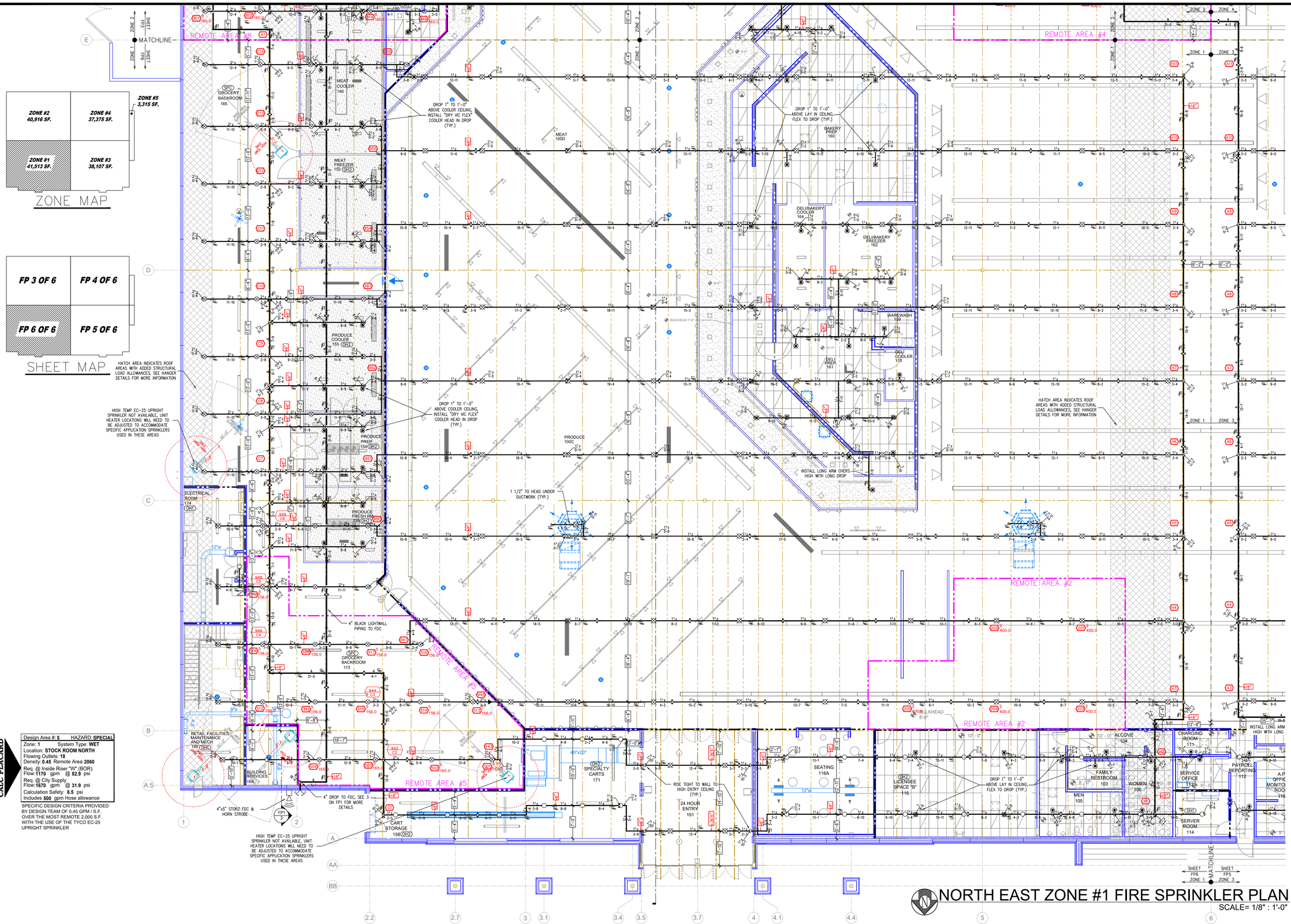
MEIJER STORE #319

225 W. SPRING MILL POINTE DR. HAMILTON COUNTY, WESTFIELD, IN 46074

SPRINKLER PLAN

NORTH

DESIGNER	JVG
SCALE	1/8 " = 1'-0"
CHECK BY	RG
FILE NUMBER	
APPROVAL	STATE & LOCAL
DATE	6-15-20
DRAWING NO.	FP-5 of 6



NORTH EAST ZONE #1 FIRE SPRINKLER PLAN

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

CALC PLACARD

Design Area #: **5** HAZARD: **SPECIAL**
Zone: **1** System Type: **WET**
Location: **STOCK ROOM NORTH**
Flowing Outlets: **18**
Density: **0.45** Remote Area: **2060**
Req. @ Inside Riser "W" (BOR):
Flow: **1170** gpm @ **82.9** psi
Req. @ City Supply
Flow: **1670** gpm @ **31.9** psi
Calculation Safety: **8.5** psi
Includes **500** gpm Hose allowance

SPECIFIC DESIGN CRITERIA PROVIDED BY DESIGN TEAM OF 0.45 GPM / S.F. OVER THE MOST REMOTE 2,000 S.F. WITH THE USE OF THE TYCO EC-25 UPRIGHT SPRINKLER

Design Area #: **2** HAZARD: **OH2**
Zone: **1** System Type: **WET**
Location: **SALES FLOOR NORTH**
Flowing Outlets: **5**
Density: **0.20** Remote Area: **1616**
Req. @ Inside Riser "H" (BOR):
Flow: **420** gpm @ **71.3** psi
Req. @ City Supply
Flow: **670** gpm @ **7.9** psi
Calculation Safety: **36.3** psi
Includes **250** gpm Hose allowance

SPECIFIC DESIGN CRITERIA PROVIDED BY DESIGN TEAM OF 0.18 GPM / S.F. OVER THE MOST REMOTE 2,500 S.F. WITH THE USE OF THE TYCO EC-14 UPRIGHT SPRINKLER. THESE SPECIFIC APPLICATION SPRINKLER CUT SHEETS ONLY ALLOW FOR LIGHT, OH1 AND OH2 DESIGN DISCHARGES THEREFORE A 0.20 GPM / S.F. OVER THE MOST REMOTE 1,500 S.F. WITH A MINIMUM OF 5 HEADS WERE CALCULATED WITH A MINIMUM DISCHARGE OF 80 GPM PER SPRINKLER FOR A MAXIMUM SPACING OF 20'x20'

THIS SPRINKLER WORK IS DESIGNED IN ACCORDANCE WITH N.F.P.A. PAMPHLET 13 2010 EDITION

ALARM SYSTEM BY OWNER, TO BE CENTRAL STATION PER NFPA, STATE AND LOCAL REQUIREMENTS

This Sprinkler System Design is by: Jared Van Gammeren Nicet Level III # 122149

WALL CLOSED OFF TO DECK
WALL CLOSED OFF TO BOTTOM OF JOIST
INTERIOR WALLS OPEN ABOVE CEILINGS
ROOF AREAS WITH ADDED LOAD ALLOWANCES, SEE HANGER DETAILS FOR MORE INFORMATION

WALL / HATCH LEGEND

SYM	CNT	POSITION	FINISH	TEMP	K	NPT	SIN	MFG.	MODEL#	ESCUTCHEON
⊗	170	UPR	BRASS	214	25.20	1"	TY9128	Tyco	EC-25	NONE
⊠	401	UPR	BRASS	200	14.00	3/4"	TY6137	Tyco	EC-14	NONE
○	91	UPR	BRASS	200	8.00	3/4"	TY4131	Tyco	TY-FRB	NONE
◉	62	PEND	WHITE	200	14.00	3/4"	TY6237	Tyco	EC-14	SEMI-REC
◉	27	PEND	WHITE	200	5.60	1/2"	TY323	Tyco	TY-FRB	SEMI-REC
◉	63	PEND	WHITE	200	5.60	1"	V3506	VIC	VS-1	SEMI-REC
⊠	2	UPR	BRASS	200	14.00	3/4"	TY6137	Tyco	EC-14	NONE
○	1	UPR	BRASS	200	8.00	3/4"	TY4131	Tyco	TY-FRB	NONE
◁	2	SIDE	BRASS	200	5.60	1/2"	TY3331	Tyco	TY-FRB	NONE
	824	TOTAL								

SPRINKLER HEAD LEGEND

CONTRACTOR:
ADDRESS:

REVISION

DATE	DESCRIPTION	BY

IMPORTANT
TO PREVENT FREEZING OF WATER IN WET PIPE SPRINKLER PIPING, OWNERS TO PROVIDE SUFFICIENT HEAT THROUGHOUT AREAS WHERE SPRINKLER PIPES ARE INSTALLED, UNLESS AN ANTI-FREEZE SYSTEM.

MEIJER STORE #319

225 W. SPRING MILL POINTE DR. HAMILTON COUNTY, WESTFIELD, IN 46074

SPRINKLER PLAN

NORTH

DESIGNER	JVG
SCALE	1/8 " = 1'-0"
CHECK BY	RG
FILE NUMBER	
APPROVAL	STATE & LOCAL
DATE	6-15-20
DRAWING NO.	FP-6 of 6