

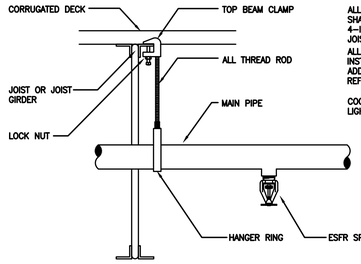
PROVIDE TRAPEZE HANGERS ON ALL 8-INCH SPRINKLER MAINS HUNG FROM THE BAR JOIST TOP CHORD.

ALL 8-INCH SPRINKLER MAINS SHALL BE LOCATED WITHIN 12 INCHES OF THE MIDPOINT BETWEEN ADJACENT BAR JOISTS AND HUNG FROM TRAPEZE HANGERS, SPACED A MAXIMUM OF 8-FEET ON CENTER.

ALL HANGING METHODS SHALL BE IN ACCORDANCE WITH NFPA 13, CONTRACT DOCUMENTS, AND WHICHEVER IS MOST STRINGENT.

6-INCH AND SMALLER PIPE RUNNING PARALLEL TO THE JOISTS MAY BE HUNG FROM A SINGLE BAR JOIST, WITH HANGERS FOR 6-INCH PIPE SPACED A MAXIMUM OF 8 FEET ON CENTER.

1 MAIN TRAPEZE HANGER DETAIL (PIPE PARALLEL TO JOISTS)
SCALE: NTS

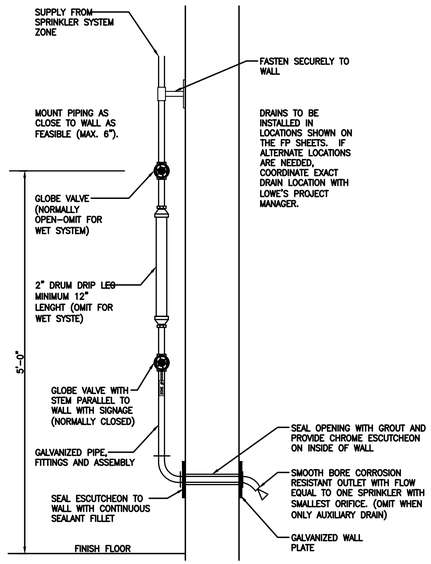


ALL 6 & 8-INCH PIPE RUNNING PERPENDICULAR TO BAR JOISTS SHALL BE HUNG FROM EACH BAR JOIST TOP CHORD. ALL 4-INCH OR SMALLER PIPE SHALL BE HUNG FROM THE BAR JOIST TOP CHORD IN ACCORDANCE WITH NFPA 13.

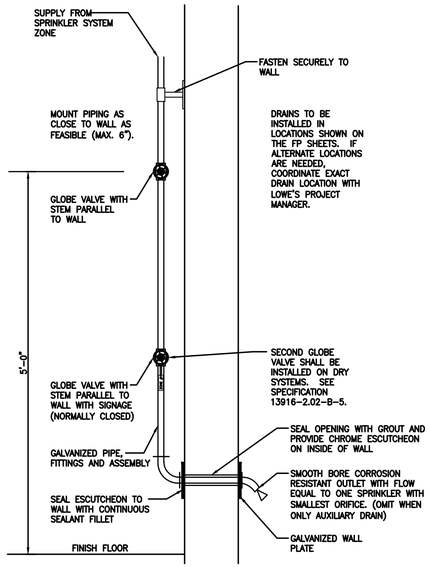
ALL SPRINKLER PIPING GREATER THAN 3-INCHES SHALL BE INSTALLED WITHIN 6-INCHES OF A TOP PANEL POINT, OR ADDITIONAL BAR JOIST CROSS BRACING SHALL BE PROVIDED. REFER TO DETAIL 1 ON THIS SHEET.

COORDINATE WITH LIGHTING SO THAT DEFLECTORS ARE BELOW LIGHT FIXTURES.

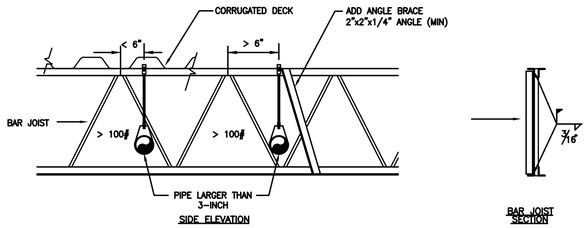
3 MAIN AND LINE HANGER DETAIL (PIPE PERPENDICULAR TO JOISTS)
SCALE: NTS



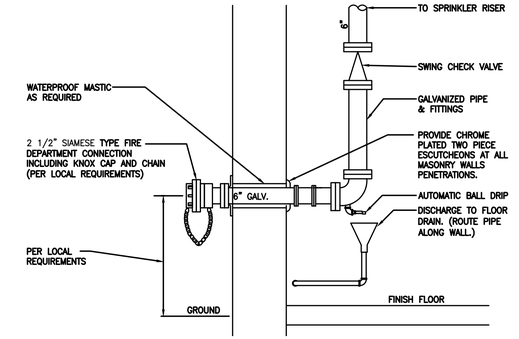
4 TYPICAL LOW POINT DRAIN DETAIL (DRUM DRIP TYPE)
SCALE: NTS



5 TYPICAL INSPECTORS TEST CONNECTION AND AUX. DRAIN DETAIL
SCALE: NTS

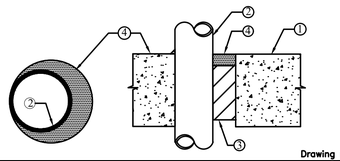


2 TYPICAL PIPE SUPPORTING DETAILS
SCALE: NTS



6 TYPICAL PIPE FIRE DEPARTMENT CONNECTION
SCALE: NTS

UL CLASSIFIED SYSTEM # C-AJ-1205 - CONFIGURATION A	2 HOUR FIRE RATED THROUGH PENETRATION FIRESTOP FOR SINGLE METAL PIPE THROUGH CONCRETE FLOORS OR BLOCK WALLS USING TREMstop ACRYLIC.
F-RATING = 2 hours T-RATING = 0 hours L-RATING AT AMBIENT - LESS THAN 1 CFM/sq.ft. L-RATING AT 400 F - LESS THAN 1 CFM/sq.ft.	TREMCO 3735 Green Rd. Beachwood, OH, 44122 PRODUCTS SHOWN ARE BY TREMCO. 3M EQUIVALENT MAY BE USED UPON APPROVED SUBMITTALS.

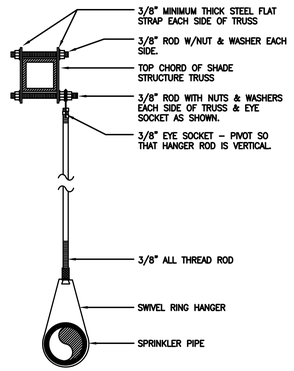


Drawing not to scale

1. PRE-RATED CONCRETE FLOOR OR BLOCK WALLS = MIN. 4-1/2" THICKNESS. THE ANNULAR SPACE RANGE SHALL BE MIN. 0" to MAX. 7/8" FOR THIS FIRESTOP SYSTEM.
2. METALLIC PIPE > STEEL PIPE - 12" DIAM. (or smaller) SCH. 40 (or heavier) STEEL.
   > CONDUIT - NOM. 4" DIAM. (or smaller) STEEL CONDUIT, OR EMT.
   > COPPER PIPE - 4" DIAM. (or smaller) REGULAR (or heavier) COPPER.
   > CAST IRON PIPE - 12" DIAM. (or smaller) CAST OR DUCTILE IRON.
   > COPPER TUBING - 4" DIAM. (or smaller) TYPE L (or heavier) COPPER.
3. PACKING MATERIAL - MIN. 4" THICKNESS OF MINERAL WOOL (MIN. 4.0 pcf.) INSULATION, FIRMLY PACKED INTO OPENING AS A PERMANENT FORM.
4. TREMstop ACRYLIC - MIN. 1/2" SEALANT APPLIED WITHIN ANNULUS, AND A MIN. 1/4" SEALANT APPLIED AT POINT CONTACT; AT THE FLOOR SURFACE FOR FLOORS, OR BOTH SURFACES FOR WALLS.

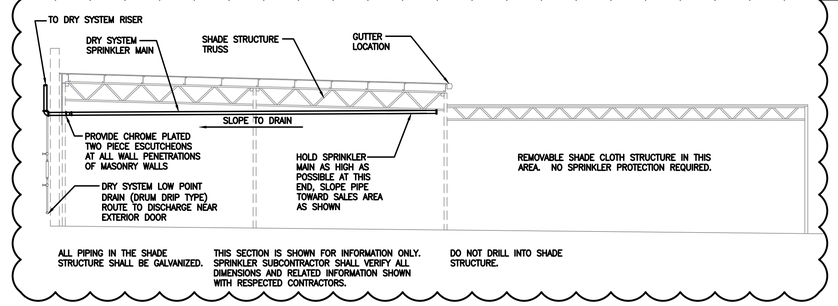
THE TREMCO PRODUCTS USED ABOVE HAVE BEEN TESTED IN ACCORDANCE WITH THE FOLLOWING: * ASTM E814 (UL1479) STANDARD TEST METHOD FOR THROUGH PENETRATION FIRESTOPPING	THE ABOVE DESCRIBED ASSEMBLY HAS BEEN TESTED AND IS BASED ON BOTH PAST AND ANTICIPATED PERFORMANCE CRITERIA. TREMCO SHALL NOT BE LIABLE FOR ANY DAMAGES, DIRECT OR CONSEQUENTIAL, RESULTING FROM USE OF THIS MATERIAL OR DESIGN. TREMCO SHALL ONLY BE RESPONSIBLE FOR REPLACING MATERIAL FOUND TO BE DEFECTIVE.

7 TYPICAL DETAILS FOR FIRESTOPPING
SCALE: NTS

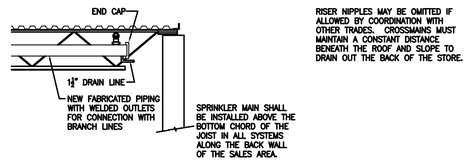


TYPICAL FOR JANCO, NEXUS AND ROUGH BROTHERS SHADE STRUCTURE MANUFACTURER

8 SHADE STRUCTURE HANGER DETAIL
SCALE: NTS

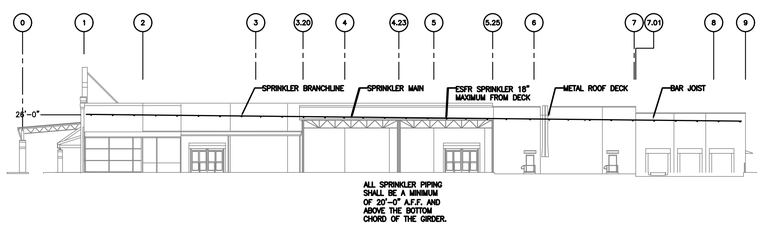


9 TYPICAL SECTION THROUGH SHADE STRUCTURES
SCALE: NTS

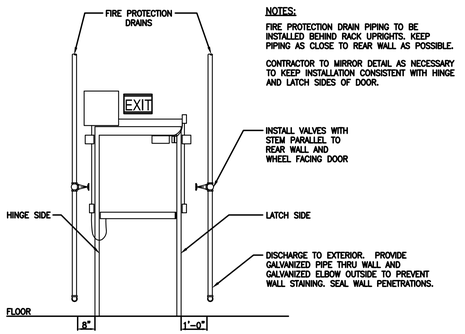


RISER NIPPLES MAY BE OMITTED IF ALLOWED BY COORDINATION WITH OTHER TRADES. CROSSMAINS MUST MAINTAIN A CONSTANT DISTANCE BENEATH THE ROOF AND SLOPE TO DRAIN OUT THE BACK OF THE STORE.

10 SPRINKLER MAIN DETAIL
SCALE: NTS



11 BUILDING SECTION VIEW
SCALE: NTS



NOTES:

FIRE PROTECTION DRAIN PIPING TO BE INSTALLED BEHIND RACK UPRIGHTS. KEEP PIPING AS CLOSE TO REAR WALL AS POSSIBLE.

CONTRACTOR TO MIRROR DETAIL AS NECESSARY TO KEEP INSTALLATION CONSISTENT WITH HINGE AND LATCH SIDES OF DOOR.

12 TYPICAL DRAIN INSTALLATION
SCALE: NTS

REVISIONS
PRE-BID SET ISSUE DATE / POST BID SET ISSUE DATE

DATE	DESCRIPTION
10-07-26	REVISION 3

CHRISTOPHER J. CULP LICENSE No. 63559 STATE OF FLORIDA PROFESSIONAL ENGINEER
10/6/2026
CHRISTOPHER J. CULP
LICENSE # 63559

HENDERSON ENGINEERS
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LENEXA, KS 66214
TEL 913.742.5000 FAX 913.742.5001
WWW.HENDERSONENGINEERS.COM
2350004344
FL. REGISTRY NO. EB 7606
02/28/27

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LOWE'S

SECTIONS & DETAILS

LOWE'S OF WESTLAKE
5683 SEMINOLE PRATT WHITNEY RD.
Westlake, Florida, 33470

PCN: 77-40-43-01-29-000-0010
PROJECT No: 2350004344 | DRAWN BY: CPO | CHECKED BY: MHP

CRITERIA
ISSUE DATE: 02-2025
PERMIT SET
ISSUE DATE: 08-22-2025
CONSTRUCTION SET
ISSUE DATE: 04-14-2025
DRAWING NUMBER:

FP4.0

CHRISTOPHER J. CULP
FINAL | SECOND | ORIGINAL