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Autodesk Docs/02/07/26 ATCC Student Services & Transportation Center MEP/414
2/26/2026 10:43:58 AM

FIRE PROTECTION SYMBOLS

	UPRIGHT SPRINKLER HEAD
	PENDANT SPRINKLER HEAD
	CONCEALED SPRINKLER HEAD
	FROST PROOF SPRINKLER HEAD
	INSTITUTIONAL SPRINKLER HEAD
	POLYURETHANE COATED SPRINKLER HEAD
	EXTENDED COVERAGE PENDANT SPRINKLER HEAD
	UPRIGHT WITH HEAD GUARD
	SIDEWALL SPRINKLER HEAD
	PRESSURE GAUGE
	STANDPIPE / RISER
	FIRE DEPARTMENT CONNECTION
	FIRE PUMP TEST HEADER
	WATER FLOW SWITCH
	FLOW METER
	CHECK VALVE
	BUTTERFLY VALVE WITH TAMPER SWITCH
	SOLENOID VALVE
	SUPERVISED ZONE CONTROL VALVE WITH TAMPER SWITCH
	LIGHT HAZARD SPACE
	ORDINARY HAZARD GROUP 1 SPACE
	ORDINARY HAZARD GROUP 2 SPACE
	EXTRA HAZARD GROUP 1 SPACE

GENERAL FIRE PROTECTION NOTES

- A. OBTAIN ACCURATE AND CURRENT WATER FLOW INFORMATION FOR USE IN PREPARING HYDRAULIC CALCULATIONS. INDICATE LOCATION OF TEST HYDRANTS AND ACTUAL WATER SERVICE PIPING LENGTH AND PRESSURE DROP TO THE BUILDING ON THE SHOP DRAWINGS.
- B. SEE RESPECTIVE FIRE PROTECTION FLOOR PLANS FOR COORDINATION AND LOCATION OF SYSTEM COMPONENTS.
- C. EXACT SPRINKLER HEAD LOCATIONS AND QUANTITIES TO BE AS APPROVED BY ARCHITECT AND IN ACCORDANCE WITH THE FOLLOWING:
1) ALL SPRINKLERS SHALL BE OF CONCEALED PENDANT TYPE UNLESS NOTED OTHERWISE.
2) SPRINKLER HEADS WITHIN 30" OF A SUPPLY DIFFUSER SHALL BE INTERMEDIATE TEMPERATURE HEADS.
3) ALL SPRINKLER HEADS SHALL BE CENTERED IN CEILING TILES.
4) SPRINKLER HEAD ALIGNMENT SHALL BE PERPENDICULAR AND/OR PARALLEL TO OTHER ELEMENTS SUCH AS SOFFITS, CEILING TILES, WALLS, ETC. UNLESS NOTED OTHERWISE.
5) MAKE SURE SOFFITS, TEAR DROP LIGHT FITTURES, ETC. DO NOT INTERFERE WITH SPRINKLER HEAD DISCHARGE PATTERNS.
6) SPRINKLER HEAD LOCATION IN SPACES SHALL BE SYMMETRICAL IN SPACE AND SYMMETRICALLY LOCATED RELATIVE TO LIGHTS, DIFFUSERS, ETC.
7) REMOVE AND REINSTALL ACUSTICAL TILE AS REQUIRED TO PERFORM NECESSARY WORK.
- D. HORIZONTAL PIPES IN EQUIPMENT ROOMS MUST BE MORE THAN 8'-0" ABOVE FINISHED FLOOR.
- E. ROUTE ALL PIPE PARALLEL TO BUILDING STRUCTURAL LINES.
- F. SUBMIT HYDRAULIC CALCULATIONS FOR SUPPLY PIPING, FIRE PROTECTION CONTROL PANELS AND FOR SPRINKLERS IN THE MOST REMOTE AREA OF EACH ZONE.
- G. SPRINKLER DESIGN SHOULD HAVE A 10% CUSHION HYDRAULIC DESIGN POINT BELOW THE CITY WATER MOST RECENT SUPPLY TEST.
- H. CONTRACTOR SHALL INSTALL PIPING AS HIGH AS POSSIBLE. PIPING SHALL BE COMPLETELY CONCEALED IN ALL AREAS WHERE POSSIBLE. INSTALL HEADS ABOVE AND BELOW MECHANICAL EQUIPMENT AS REQUIRED FOR PROPER COVERAGE.
- I. CONTRACTOR SHALL COORDINATE SPRINKLER SYSTEM INSTALLATION WITH AIR HANDLING UNITS, DUCTWORK AND PIPING.
- J. CONTRACTOR SHALL PROVIDE ADDITIONAL HEADS IF REQUIRED TO MEET AREA OF PROTECTION PER HEAD.
- K. ALL FIRE PROTECTION WORK WILL BE PERFORMED BY TRADESMEN SKILLED AND LICENSED FOR THE TASK REQUIRED. ALL WORK WILL BE PERFORMED IN STRICT ACCORDANCE WITH THE BEST INDUSTRY PRACTICES AND THE LAWS AND CODES OF THE PROJECT LOCALITY AND THE LOCAL AUTHORITY HAVING JURISDICTION.
- L. SEE APPLICABLE DRAWINGS AND SPECIFICATIONS FOR DESCRIPTION OF THE WORK INCLUDING DESIGN INTENT AND PHASING.
- M. THE CONTRACTOR IS TO SUPERVISE, DIRECT AND COORDINATE ALL PORTIONS OF THE WORK DONE EITHER BY THEIR OWN FORCES OR THAT DONE BY SUBCONTRACTORS.
- N. THE CONTRACTOR SHALL EXAMINE EXISTING CONDITIONS TO DETERMINE ELEMENTS SUBJECT TO DAMAGE OR MOVEMENT. STARTING OF EITHER CUTTING OR PATCHING MEANS ACCEPTANCE OF EXISTING CONDITIONS. EXECUTE WORK TO AVOID DAMAGE TO OTHER WORK. IN EXISTING WORK, MINIMIZE DAMAGE AND RESTORE TO ORIGINAL CONDITION. REFINISH SURFACE TO MATCH ADJACENT FINISH.
- O. KEEP THE PREMISES AND SURROUNDING AREA FREE FROM ACCUMULATION OF WASTE MATERIALS. REMOVE DEBRIS FROM PIPE CHASES, PLENUMS, ATTICS CRAWL SPACES AND OTHER CLOSED OR REMOTE SPACES PRIOR TO ENCLOSING.
- P. AT PENETRATIONS OF ANY RATED WALLS, PARTITION CEILING OR FLOOR CONSTRUCTION COMPLETELY SEAL VOIDS WITH FIRE RATED MATERIAL CONSISTENT WITH DESIGN INTENT AND/OR APPLICABLE BUILDING CODES.
- Q. INSTALL WORK AS SPECIFIED, IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS CONSISTENT WITH APPLICABLE BUILDING CODES.
- R. SPRINKLER CONTRACTOR IS RESPONSIBLE FOR CUTTING AND PATCHING OF HOLES FOR SPRINKLER PIPE. COORDINATE WITH THE GENERAL CONTRACTOR FOR PATCHING OF EXPOSED FINISHES. ALL EXPOSED SPRINKLER PIPE TO BE PAINTED, COLOR TO BE SELECTED BY OWNER.

FIRE PROTECTION SHEET INDEX

F001	FIRE PROTECTION SYMBOLS AND ABBREVIATIONS
F101a	FIRE PROTECTION PLAN - TC AREA A
F101b	FIRE PROTECTION PLAN - TC AREA B



701 Washington Ave. N, Ste 200 | Minneapolis, MN 55401 | 612.338.2029

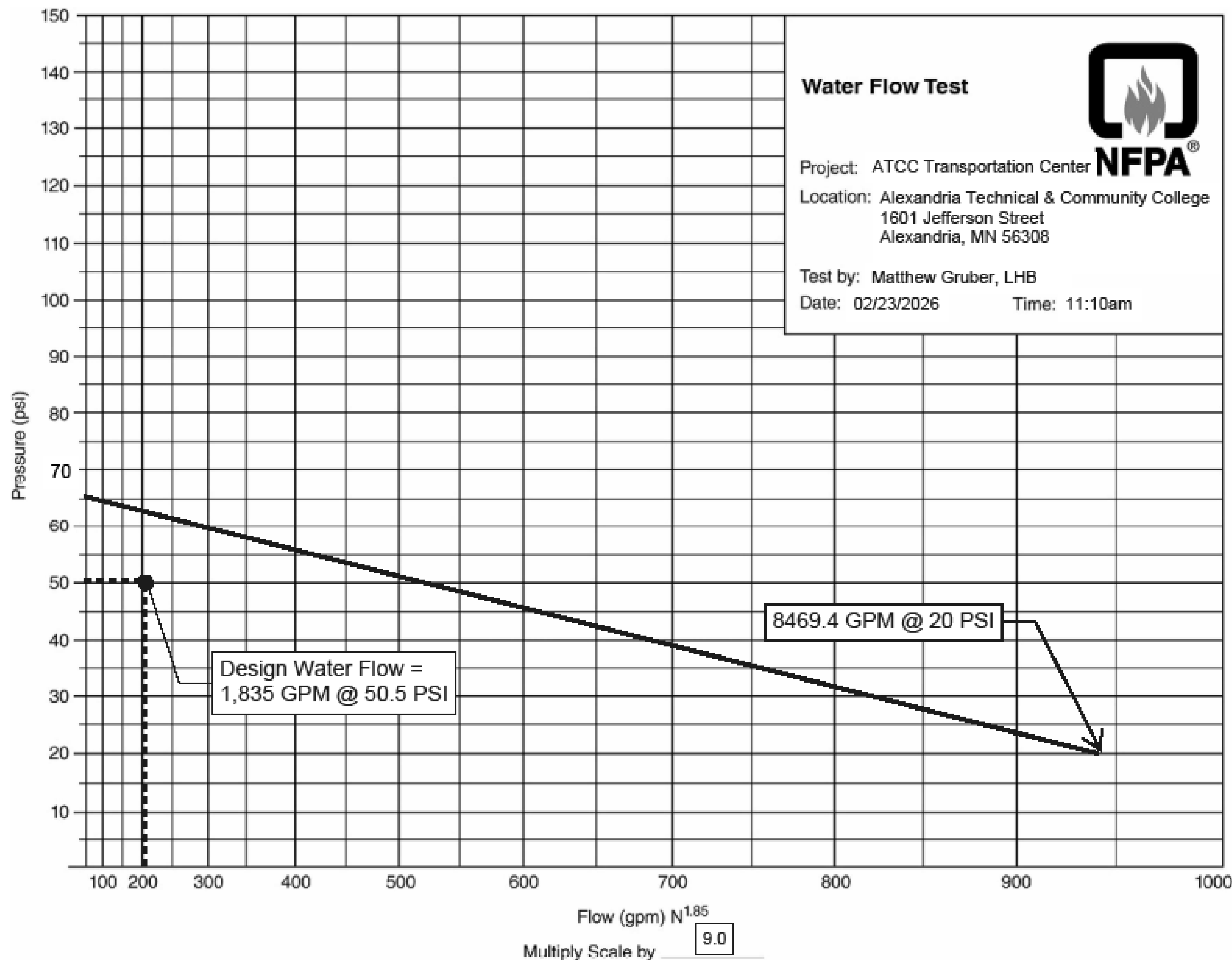
CLIENT:
**ALEXANDRIA TECH
AND COMM. COLLEGE**
1601 JEFFERSON STREET
ALEXANDRIA, MN 56308

ELECTRICAL CONSULTANT:
HALLBERG ENGINEERING
5051 Miller Trunk Highway
Hermantown, MN 55811

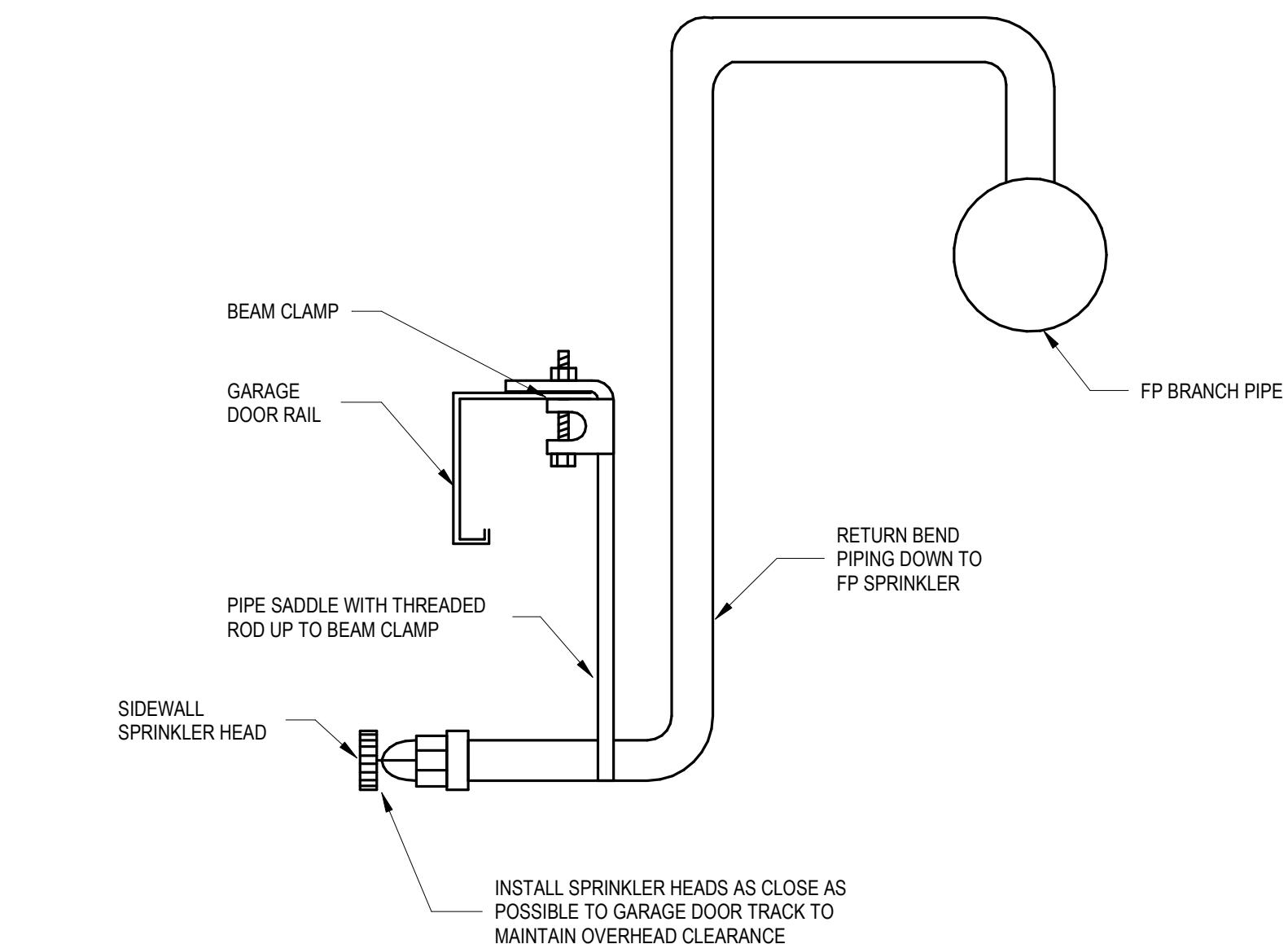
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1000 Parkers Lake Road, Suite 100
Wayzata, MN 55391

TECHNOLOGY CONSULTANT:
TRUE NORTH
140 3rd Street South
Stillwater, MN 55062

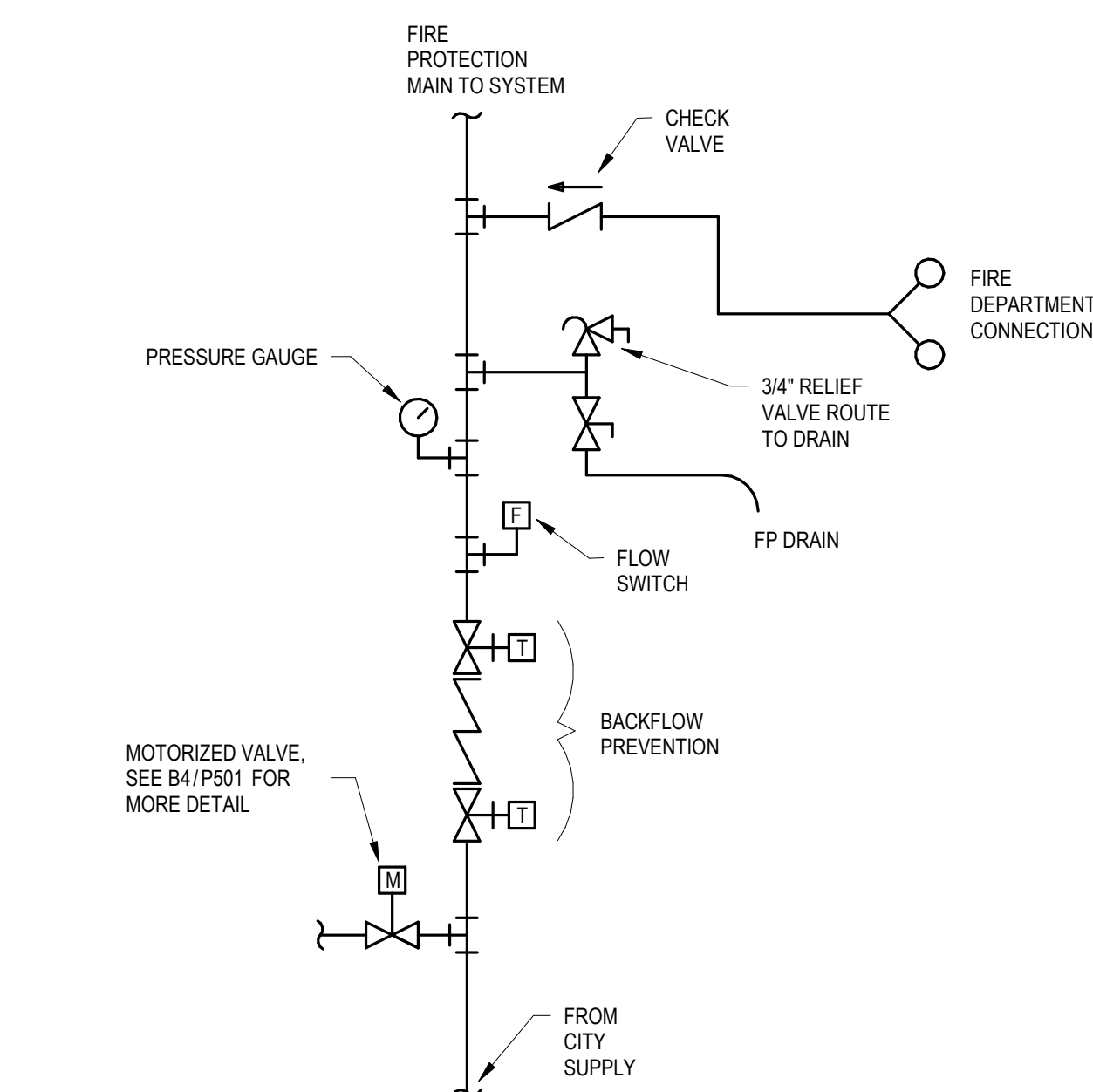
ACOUSTICS CONSULTANT:
KRA
1917 Coventry Court
Mendota Heights, MN 55118



A2 FIRE PROTECTION FLOW CHART
F001 NO SCALE



B5 OVERHEAD DOOR SPRINKLER DETAIL
F001 NO SCALE



A5 RISER ASSEMBLY DETAIL
F001 NO SCALE

THIS SQUARE APPEARS 1'x1'2" ON FULL SIZE SHEETS

	02/27/2026	BID PACK #2
	12/22/2025	BID PACK #1
NO	DATE	ISSUED FOR

NO	DATE	REVISION
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I HEREBY CERTIFY that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Signature: *Ryan K. Thorson*
Typed or Printed Name: RYAN K. THORSON
Date: 02/27/2026 License Number: 41496

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PROJECT NAME:
**ATCC-23
TRANSPORTATION
CENTER**

1601 JEFFERSON STREET
ALEXANDRIA, MN 56308

DRAWING TITLE:
**FIRE PROTECTION
SYMBOLS AND
ABBREVIATIONS**

DRAWN BY: MJG
CHECKED BY: AJA
PROJ. NO: 230736
DRAWING NO:

F001

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Autodesk Docs/230736-ATCC Student Services & Transportation Center/230736-ATCC Student Services & Transportation Center MEP/4-1
5/8/2025 11:42:05 AM

GENERAL SHEET NOTES	
A.	FIRE PROTECTION BASIS OF DESIGN ASSUMES ELECTRIC VEHICLE AND BATTERY SYSTEM STORAGE INCLUDING CLASSIFICATION OF 813, 814, 815, & 823 AS EXTRA HAZARD-1 UNDER NFPA 13.
B.	FIRE PROTECTION MAIN PIPING SHALL BE ROUTED WITHIN JOIST SPACES AS HIGH AS POSSIBLE.
KEYED SHEET NOTES	
1.	COVER GARAGE DOOR AREA ACCORDING TO DETAIL B5/F001.



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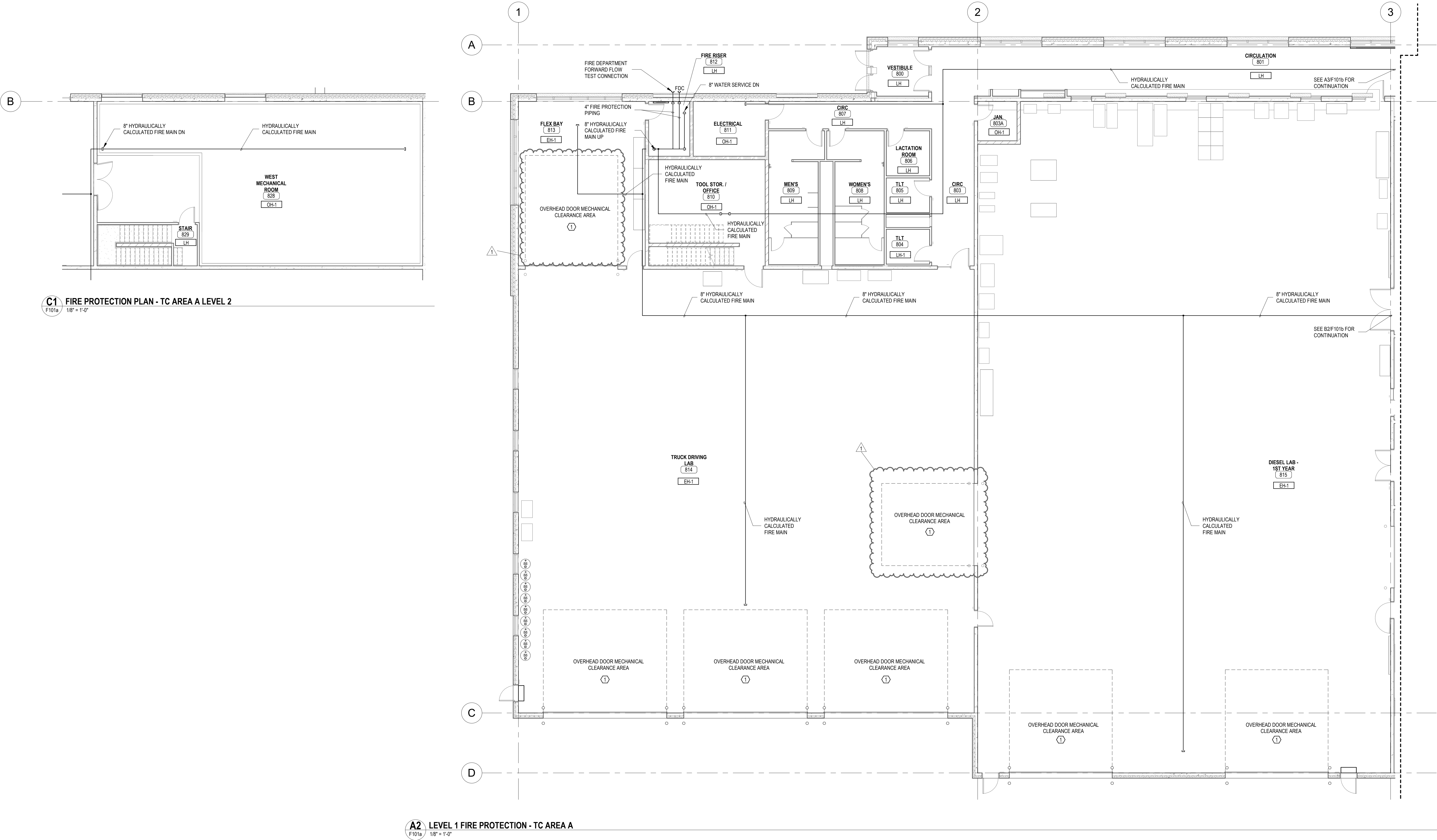
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140 3rd Street South
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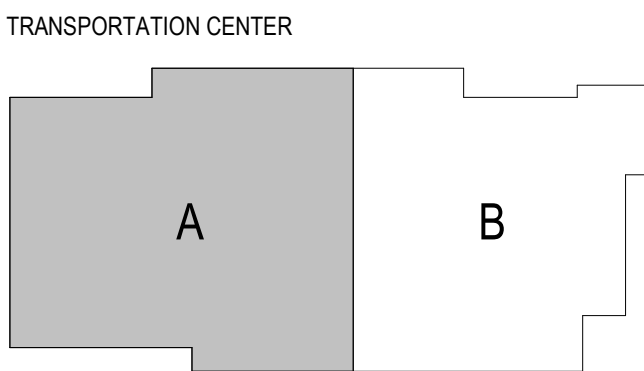
ACOUSTICS CONSULTANT:
KRA
1917 Coventry Court
Mendota Heights, MN 55118



C1 FIRE PROTECTION PLAN - TC AREA A LEVEL 2
F101a 1/8" = 1'-0"

A2 LEVEL 1 FIRE PROTECTION - TC AREA A
F101a 1/8" = 1'-0"

0'-0" 4'-0" 8'-0" 16'-0"



KEYPLAN

THIS SQUARE APPEARS 1/2"x1/2"
ON FULL SIZE SHEETS

	02/27/2026	BID PACK #2
	12/22/2025	BID PACK #1
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1	05/06/2026	PR 02
NO	DATE	REVISION

I HEREBY CERTIFY that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Signature: *Ryan K. Thorson*
Typed or Printed Name: RYAN K. THORSON
Date: 02/27/2026 License Number: 41496

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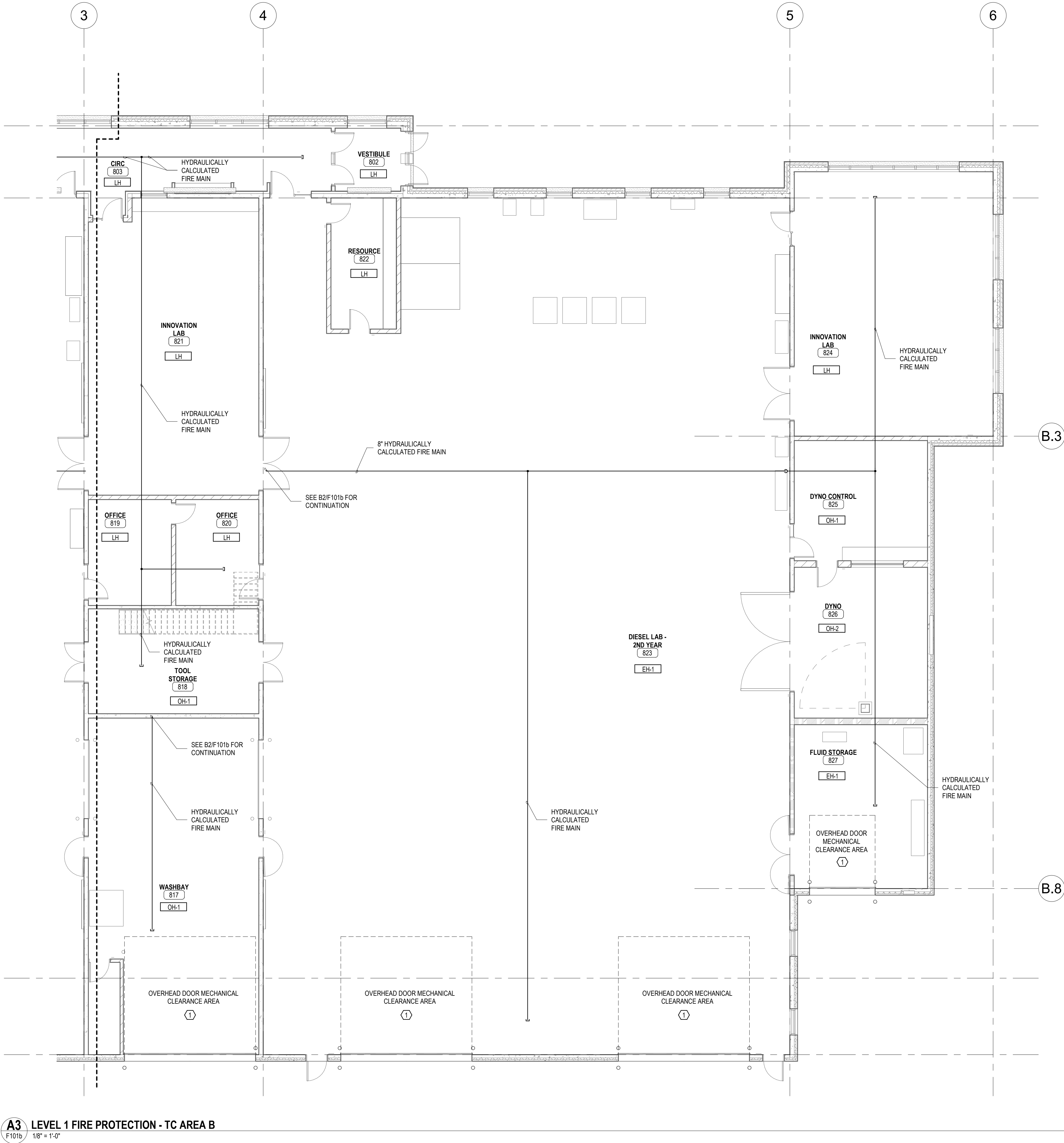
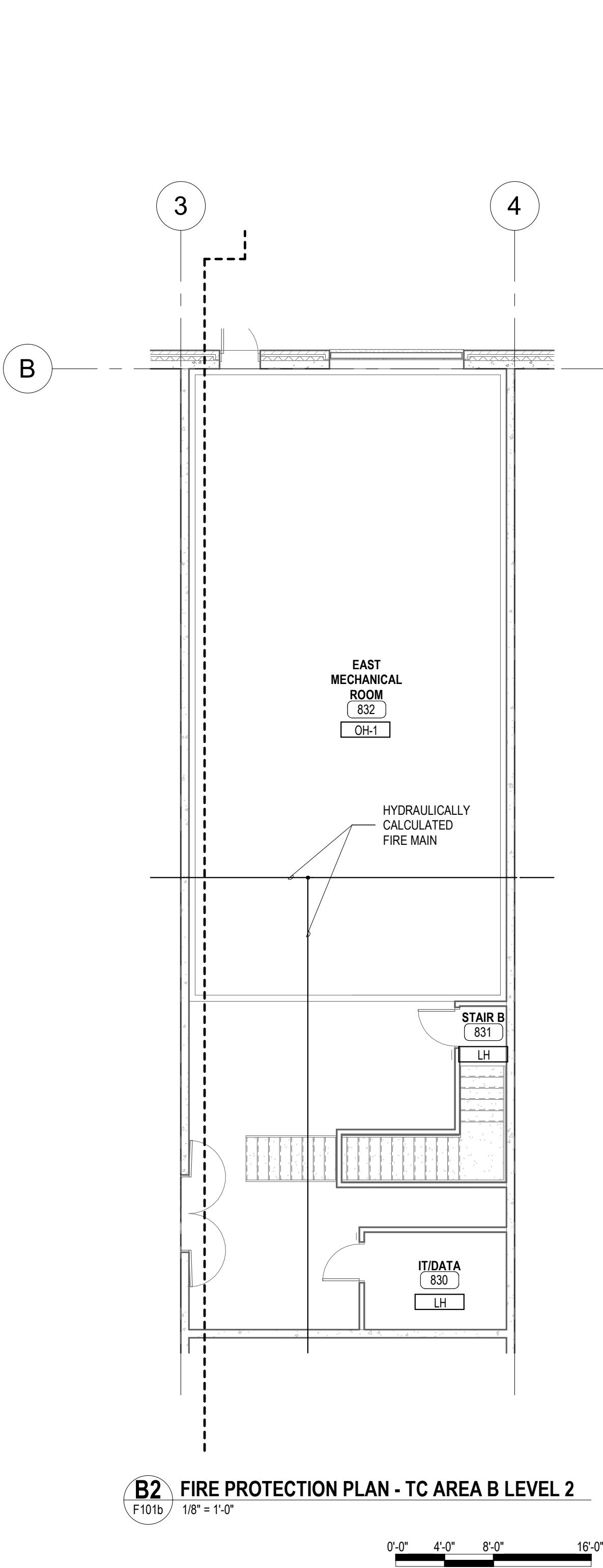
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DRAWING TITLE:
**FIRE PROTECTION
PLAN - TC AREA A**

DRAWN BY: M/G
CHECKED BY: AJA
PROJ. NO: 230736
DRAWING NO:

F101a

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GENERAL SHEET NOTES	
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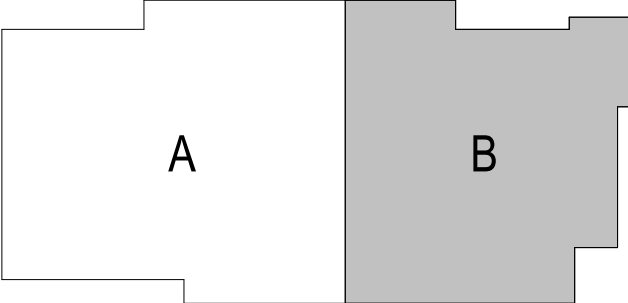
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TRANSPORTATION CENTER



KEYPLAN

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DRAWING TITLE:
**FIRE PROTECTION
PLAN - TC AREA B**

DRAWN BY: MJG
CHECKED BY: AJA
PROJ. NO: 230736
DRAWING NO:

F101b