ADDENDUM NO. 2

January 5, 2022

Lawrence Central High School Pool, 7300 E. 56th St., Indianapolis, IN 46226

TO: ALL BIDDERS OF RECORD

This Addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, the Specifications, and Drawings dated December 1, 2021, by Schmidt Associates. Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Pages ADD 2-1 through ADD 2-3 and attached Schmidt Associates Addendum No. 2, dated January 5, 2022 consisting of 29 pages, Specification Sections 09 65 66 Resilient Athletic Flooring, and Drawing Sheets: CL501.1, CU101.1, A-401.1, A402.1, A-403.1, A-404.1, A-600.1, AQ200, AQ202, AQ400, AQ401, AQ402, AQ500, AQ501, AQ600, AQ703, EP1M1.1, EP1M2.1, E-603.1 and TF1M1.1.

BID

The Bid on Wednesday January 12, 2022 at 2:00 PM will be a Virtual Bid Opening.
Bids may be dropped off in the Lobby of the Administration Building.
The bids will be taken to the Board Room, opened, and read live over Microsoft Teams Virtual Meetings.

Join Teams Meeting:

Join on your computer or mobile app
Click here to join the meeting
Or call in (audio only)
+1 317-762-3960,,214579611# United States, Indianapolis
Phone Conference ID: 214 579 611#
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A. SPECIFICATION SECTION 00 00 20 TABLE OF CONTENTS

1. Add Sections

09 30 01	Pool Tiling
09 30 33	Stone Tiling

2. Delete Sections

09 67 66	Fluid-Applied Athletic Flooring
11 66 43.99	Interior Scoreboards
11 68 23.99	Site Athletic Equipment
22 11 13	Facility Water Distribution Piping (Site)
22 13 13	Facility Sanitary Sewers (Site)
32 12 16	Asphalt Paving
32 31 13	Chain Link Fences and Gates
32 31 13	Decorative Metal Fences and Gates

B. SPECIFICATION SECTION 01 12 00 MULTIPLE CONTRACT SUMMARY

1. Paragraph 3.03 Bid Categories

D. BID CATEGORY NO. 21 - GENERAL TRADES

Delete the following Sections:

09 67 66	Fluid-Applied Athletic Flooring
11 66 43.99	Interior Scoreboards
11 68 23.99	Site Athletic Equipment
22 11 13	Facility Water Distribution Piping (Site)
22 13 13	Facility Sanitary Sewers (Site)
32 12 16	Asphalt Paving
32 31 13	Chain Link Fences and Gates
32 31 13	Decorative Metal Fences and Gates

Add the following clarifications:

14) **BC#29 Contractor** is responsible for the 12" PVC Pipe and Structure ST-53 shown on Sheet CU101.1 that connects to the pool underdrain.
15) **BC#21 Contractor** – allow for $15,000 to relocate existing pool signage.

L. BID CATEGORY NO. 29 – AQUATIC CONSTRUCTION

Add the following clarifications:

2) **BC#29 Contractor** is responsible for the pool underdrain shown dashed on PF1M0.1 and stubbing the 8" underdrain 5' outside the building.

3) **BC#29 Contractor** is responsible for the 12" PVC Pipe and Structure ST-53 shown on Sheet CU101.1 that connects to the pool underdrain.
4) All excavation spoils to be removed from site.

N. BID CATEGORY NO. 31 – PLUMBING & HVAC

Add the following Specification Section:

26 29 23 – Variable Frequency Motor Controllers (Furnished by **BC#31 Contractor** and Installed and powered by **BC#321 Contractor**).

Add the following clarifications:

6) **BC#29 Contractor** is responsible for the pool underdrain shown dashed on PF1L0.1 and stubbing the 8" underdrain 5' outside the building.

O. BID CATEGORY NO. 32 – ELECTRICAL & TECHNOLOGY

Add the following Specification Section:

26 29 23 – Variable Frequency Motor Controllers (Furnished by **BC#31 Contractor** and Installed and powered by **BC#321 Contractor**).

Add the following Clarifications:

5. Sheet EP101.1 the dropped ceilings along the paths of the emergency lighting circuits and fire alarm cabling connection to be removed and replaced by the electrical contractor.

C. SPECIFICATION SECTION 01 21 00 ALLOWANCES

1. 3.01 PRODUCT ALLOWANCE

A. BC#21 – General Trades: Include $10,000 permanent core allowance.
B. BC#21 – General Trades: Include Specification section 10 14 00 Signage – Allow $130,000 for school logo signage (Note 15 – Sheet A-210.1 and Pool Wall).
C. BC#32 – Electrical: Include $245,000 material cost for LT1.

ADDENDUM NO. 2
JANUARY 5, 2022

PREPARED BY SCHMIDT ASSOCIATES FOR:
LAWRENCE CENTRAL HIGH SCHOOL POOL
LAWRENCE TOWNSHIP, M.S.D. OF

This Addendum consists of 4 Addendum pages and 25 attachment pages totaling 29 pages.

Acknowledge receipt of this Addendum by inserting its number on the Bid Form. Failure to do so may subject the Bid to disqualification. This Addendum is part of the Contract Documents.

Bidder is encouraged to verify with reprographer of record all Addenda issued (do not rely exclusively on third party plan room services).

PART 1 - CHANGES TO PRIOR ADDENDA (NOT APPLICABLE)

PART 2 - CHANGES TO THE PROJECT MANUAL

Modifications described herein shall be incorporated in the Project Manual. All other Work shall remain unchanged.

2.1 DIVISION 05 – METALS

A. **Section 055213 "PIPE AND TUBE RAILINGS"**

1. ADD Subparagraph 2.1 A. 1. j. as follows:

   "j. Hollaender MFG."

2. ADD Subparagraph 2.1 A. 2. j. as follows:

   "j. Hollaender MFG."

B. **Section 057300** "**DECORATIVE METAL RAILINGS**"

1. ADD Subparagraphs 2.1 A. 1. g. and h. as follows:

   "g. Hollaender MFG.

   h. Morse Industries "

2.2 DIVISION 09 – FINISHES

A. **Section 096566 "RESILIENT ATHLETIC FLOORING"**

1. DELETE AND REPLACE Section 096566 per the attached.

B. **Section 096766** "**FLUID-APPLIED ATHLETIC FLOORING**"

1. DELETE Section 096766 in its entirety.

C. **Section 098300.99 "ACOUSTIC FINISHES"**

1. DELETE Subparagraph 2.1 A. 1. a. in its entirety and replace with the following:

"a. Monoglass Spray-On Insulation."

2.3 DIVISION 10 – SPECIALTIES

A. **Section 104413 "FIRE EXTINGUISHER CABINETS"**

1. ADD Subparagraph 1.2 A. 1. b., as follows:

"b. provide five (5) cabinets; location to be determined during submittals."

2.4 DIVISION 11 – EQUIPMENT

A. **Section 116643.99 "INTERIOR SCOREBOARDS"**

1. DELETE Section in its entirety.

B. **Section 116823.99 "ATHLETIC EQUIPMENT"**

1. DELETE Section in its entirety.

2.5 DIVISION 22 – PLUMBING

A. **Section 221113 "FACILITY WATER DISTRIBUTION PIPING (SITE)"**

1. DELETE Section in its entirety.

B. **Section 221313 "FACILITY SANITARY SEWERS (SITE)"**

1. DELETE Section in its entirety.

C. **Section 221319 "SANITARY WASTE PIPING SPECIALTIES"**

1. ADD Subparagraph 2.3.A.1.e. as follows:

"e. Dura Trench."

2.6 DIVISION 23 - HEATING, VENTILATING, AND AIR-CONDITIONING(HVAC)

A. **Section 230713 "DUCT INSULATION"**

1. DELETE Article 3.12 in its entirety

B. **Section 232113 "HYDRONIC PIPING"**

1. ADD Apollo Shurjoint as an acceptable manufacturer to bid Grooved Steel Pipe & Fittings.

C. **Section 233300 "AIR DUCT ACCESSORIES"**

1. ADD Subparagraph 2.6.A.7. as follows:

   "7. POTTORFF"

2. ADD Subparagraph 2.9.A.7. as follows:

   "7. Dynasonics"

D. **Section 233439 "HIGH-VOLUME LOW-SPEED FANS"**

1. ADD SKYBLADE as an acceptable manufacturer to bid High-Volume Low-Speed Fans.

E. **Section 233716.99 "FABRIC AIR-DISTRIBUTION DEVICES"**

1. ADD Nano-Sox as an acceptable manufacturer to bid Fabric Air-Distribution Devices.

F. **Section 237313 "MODULAR INDOOR CENTRAL STATION AIR HANDLING UNITS"**

1. ADD PACE as an acceptable manufacturer to bid Modular Indoor Central Station Air Handling Units.

2.7 DIVISION 27 – COMMUNICATIONS

A. **Section 271300 "COMMUNICATIONS BACKBONE CABLING"**

1. ADD Text 2.2 OPTICAL FIBER CABLE as follows:

   "Provide the following products, no substitute
   - Fiber (Hubbell)- **HFCD15012PS**
   - MDF 3U panel (Hubbell)- **FCR3U12SP**
   - IDF 1U panel (Hubbell)- **FCR1U3SP**
   - Adapter panels(Hubbell) - **FSPSCDS6Y**
   - Connectors SC (Sumitomo) -**LYNX2-SCUPCSM-900LT**"

2.8 DIVISION 32 – EXTERIOR IMPROVEMENTS

A. **Section 323113 "CHAIN LINK FENCES AND GATES"**

1. DELETE Section in its entirety.

B. **Section 323119 "DECORATIVE METAL FENCES AND GATES"**

1. DELETE Section in its entirety.

PART 3 - CHANGES TO THE DRAWINGS

Modifications described herein shall be incorporated in the Drawings. All other Work shall remain unchanged.

3.1 DRAWING SHEETS: ADDITIONS, DELETIONS AND REPLACEMENTS

DRAWING NO.	INDICATE ACTION: REPLACE (R), ADD (A), DELETE (D)
C-SERIES DRAWINGS	
CL501	DELETE AND REPLACE
CU101	DELETE AND REPLACE
A-SERIES DRAWINGS	
A-401.1	DELETE AND REPLACE
A-402.1	DELETE AND REPLACE
A-403.1	DELETE AND REPLACE
A-404.1	DELETE AND REPLACE
A-600.1	DELETE AND REPLACE
AQ-SERIES DRAWINGS	
AQ200	DELETE AND REPLACE
AQ202	DELETE AND REPLACE
AQ400	DELETE AND REPLACE
AQ401	DELETE AND REPLACE
AQ402	DELETE AND REPLACE
AQ500	DELETE AND REPLACE
AQ501	DELETE AND REPLACE
AQ600	DELETE AND REPLACE
AQ703	DELETE AND REPLACE
E-SERIES DRAWINGS	
EP1M1.1	DELETE AND REPLACE
EP1M2.1	DELETE AND REPLACE
E-603.1	DELETE AND REPLACE
T-SERIES DRAWINGS	
TF1M1.1	DELETE AND REPLACE

END OF ADDENDUM 2

SECTION 096566 - RESILIENT ATHLETIC FLOORING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes the following:

1. Interlocking, rubber floor tile.

B. Related Sections include the following:

1. Division 09 Sections for resilient floor coverings installed in areas other than athletic-activity spaces.
2. Division 09 Section "Wood Athletic Flooring" for resilient wood flooring.
3. Division 09 Section "Resilient Base and Accessories" for wall base and accessories installed with floor coverings.

1.3 SUBMITTALS

A. Product Data with Shop Drawings:

1. Product Data: For each type of product indicated.

B. Samples for Verification: For each type, color, and pattern of floor covering indicated, 6-inch-square Samples of same thickness and material indicated for the Work.

C. Maintenance Data: For floor coverings to include in maintenance manuals.

1.4 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials in original packages and containers, with seals unbroken, bearing manufacturer's labels indicating brand name and directions for storing.

B. Store materials to prevent deterioration. Store tiles on flat surfaces.

1.5 PROJECT CONDITIONS

A. Adhesively Applied Products:

1. Maintain temperatures within range recommended in writing by manufacturer, but not less than 70 deg F or more than 95 deg F, in spaces to receive floor coverings during the following time periods:

a. 48 hours before installation, unless longer period is recommended in writing by manufacturer.
b. During installation.
c. 48 hours after installation, unless longer period is recommended in writing by manufacturer.

2. After postinstallation period, maintain temperatures within range recommended in writing by manufacturer, but not less than 55 deg F or more than 95 deg F.
3. Close spaces to traffic during floor covering installation.
4. Close spaces to traffic for 48 hours after floor covering installation, unless manufacturer recommends longer period in writing.

B. Install floor coverings after other finishing operations, including painting, have been completed.

1.6 EXTRA MATERIALS

A. Furnish extra materials described below, before installation begins, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

1. Floor Tile: Furnish no fewer than 1 box for each 50 boxes or fraction thereof, of each type, color, pattern, and size of floor tile installed.

PART 2 - PRODUCTS

2.1 INTERLOCKING, RUBBER FLOOR TILE (RAFT)

A. Products: Subject to compliance with requirements, provide Tarkett, Replay Sports Rubber Tile or one of the following:

1. Mondo; Tuff-Lock.
2. Pawling Corporation, Architectural Products Division.

B. Material: Recycled-rubber compound.

C. Installation Method: Free lay.

D. Tile Interlock: Visible.

E. Traffic-Surface Texture: Smooth.

F. Size: Manufacturer's standard-size square tile, not less than 24 inches square.

G. Thickness: 3/8 inch.

H. Color and Pattern: As selected by Architect from manufacturer's full range.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, with Installer present, for compliance with requirements for installation tolerances, moisture content, and other conditions affecting performance.

1. Verify that finishes of substrates comply with tolerances and other requirements specified in other Sections and that substrates are free of cracks, ridges, depressions, scale, and foreign deposits that might interfere with adhesion of resilient products.
2. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Prepare substrates according to manufacturer's written recommendations to ensure adhesion of floor coverings.

B. Concrete Substrates: Prepare according to ASTM F 710.

1. Verify that substrates are dry and free of curing compounds, sealers, and hardeners.
2. Alkalinity and Adhesion Testing: Perform tests recommended in writing by manufacturer. Proceed with installation only after substrates pass testing.
3. Moisture Testing:

a. Perform anhydrous calcium chloride test, ASTM F 1869. Proceed with installation only after substrates have maximum moisture-vapor-emission rate of 3 lb of water/1000 sq. ft. in 24 hours.

1) Perform tests so that each test area does not exceed 200 sq. ft. and perform not less than 2 tests in each installation area and with test areas evenly spaced in installation areas.

b. Perform tests recommended in writing by manufacturer. Proceed with installation only after substrates pass testing.
c. Installer may choose to install resilient athletic flooring manufacturer's approved and warranted substrate sealer instead of waiting for moisture vapor emission rate and relative humidity compliance at no additional cost to Owner.

C. Remove substrate coatings and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, using mechanical methods recommended in writing by manufacturer. Do not use solvents.

D. Move floor coverings and installation materials into spaces where they will be installed at least 48 hours in advance of installation, unless manufacturer recommends a longer period in writing.

1. Do not install floor coverings until they are same temperature as space where they are to be installed.

E. Sweep and vacuum clean substrates to be covered by floor coverings immediately before installation. After cleaning, examine substrates for moisture, alkaline salts, carbonation, and dust. Proceed with installation only after unsatisfactory conditions have been corrected.

3.3 FLOOR COVERING INSTALLATION, GENERAL

A. Comply with manufacturer's written installation instructions.

B. Scribe, cut, and fit floor coverings to butt neatly and tightly to vertical surfaces, equipment anchors, floor outlets, and other interruptions of floor surface.

C. Extend floor coverings into toe spaces, door reveals, closets, and similar openings, unless otherwise indicated.

D. Maintain reference markers, holes, and openings that are in place or marked for future cutting by repeating subfloor markings on floor coverings. Use nonpermanent, nonstaining marking device.

E. Adhere products to substrates using a full spread of adhesive applied to substrate to comply with adhesive and floor covering manufacturers' written instructions, including those for trowel notching, adhesive mixing, and adhesive open and working times.

1. Provide completed installation without open cracks, voids, raising and puckering at joints, telegraphing of adhesive spreader marks, and other surface imperfections.

3.4 FLOOR TILE INSTALLATION

A. Lay out tiles from center marks established with principal walls, discounting minor offsets, so tiles at opposite edges of room are of equal width. Adjust as necessary to avoid using cut widths that equal less than one-half tile at perimeter.

1. Lay tiles square with room axis.

B. Discard broken, cracked, chipped, or deformed tiles.

C. Match tiles for color and pattern by selecting tiles from cartons in same sequence as manufactured and packaged, if so numbered.

3.5 CLEANING AND PROTECTING

A. Perform the following operations immediately after completing floor covering installation:

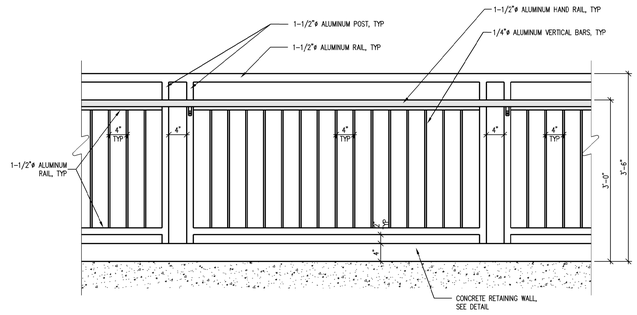
1. Remove adhesive and other blemishes from floor covering surfaces.
2. Sweep and vacuum floor coverings thoroughly.
3. Damp-mop floor coverings to remove marks and soil.

a. Do not wash floor coverings until after time period recommended in writing by manufacturer.

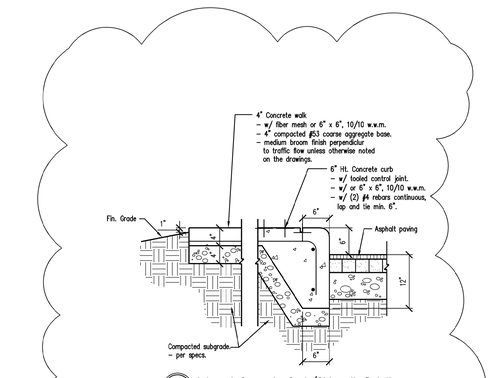
B. Protect floor coverings from mars, marks, indentations, and other damage from construction operations and placement of equipment and fixtures during remainder of construction period. Use protection methods recommended in writing by manufacturer.

1. Do not move heavy and sharp objects directly over floor coverings. Protect floor coverings with plywood or hardboard panels to prevent damage from storing or moving objects over floor coverings.

END OF SECTION 096566

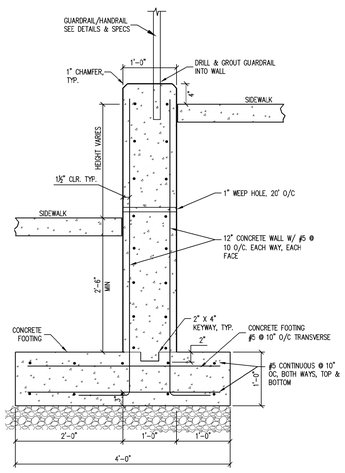


1D RAMP GUARDRAIL/HANDRAIL
Scale: N.T.S.



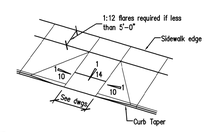
2B Integral Concrete Curb/Sidewalk Detail
Scale: 1" = 1'-0"

A2

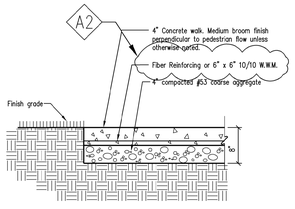


1B Concrete Retaining Wall
Scale: 1"= 1'-0"

Note:
Detectable warnings shall extend the full width and depth of the curb ramp. The warnings shall consist of raised truncated domes with a diameter of nominal 0.9 in (23 mm), a height of nominal 0.2 in (5 mm) and a center-to-center spacing of nominal 2.35 in (60 mm) and shall contrast visually with adjoining surfaces, either light-on-dark, or dark-on-light



2A ADA Accessible Ramp
Scale: N.T.S.



1A Regular Duty Concrete Pavement Detail
Scale 1"=1'-0"

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Project No. 2018-050.LCP
Project Date 12.01.2021
Produced LZ JLS

KYLE E. MILLER
REGISTERED
NO. 19900465
STATE OF MARYLAND
PROFESSIONAL ENGINEER

#	Revision	Date
A2	Addendum 2	01.04.2022

7300 E 56th Street
Indianapolis, IN 46226

N

MSD OF LAWRENCE TOWNSHIP

LAWRENCE CENTRAL HIGH SCHOOL POOL

SITE LAYOUT DETAILS

CL501.1

GENERAL UTILITY NOTES

1. ALL LOCATIONS WHERE OTHER UTILITIES CROSS THE PROPOSED SANITARY SEWER WITH 18" VERTICAL CLEARANCE OR LESS REQUIRE THE INSTALLATION OF A CONCRETE CRADLE OR OTHER MEANS OF STRUCTURAL SUPPORT.
2. ALL LIDS, CASTINGS, GRATES, BOXES, AND HATCHES ASSOCIATED WITH EXISTING UTILITY STRUCTURES THAT ARE NOT INDICATED FOR MODIFICATION SHALL BE MAINTAINED AND PROTECTED DURING CONSTRUCTION.
3. COMPACTED GRANULAR BACKFILL IS REQUIRED FOR ALL UTILITY TRENCHES LOCATED UNDER PAVED AREAS. SEE SPECIFICATIONS.
4. PIPE LENGTHS INDICATED ON THE DRAWINGS ARE FOR HYDRAULIC CALCULATION PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR FURNISHING THE AMOUNT OF PIPE MATERIALS NECESSARY FOR A COMPLETE INSTALLATION.
5. ALL STORM INLET CASTINGS SHALL BE PERMANENTLY STAMPED WITH NOTATION "DUMP NO WASTE, DRAINS TO RIVER".
6. ALL STORM SEWERS, STRUCTURES, AND LATERALS WITHIN THE SUBJECT SITE SHALL BE PRIVATELY OWNED AND MAINTAINED.
7. NO SUBSTITUTION OF BMP HYDRODYNAMIC SEPARATOR STRUCTURE OR MANUFACTURER IS PERMITTED.
8. INSTALL 18"W x 18"L x 4"T CONCRETE COLLAR AROUND ALL CLEANOUTS, FIRE HYDRANTS, VALVE BOXES, INDICATOR POSTS, AND YARD HYDRANTS THAT ARE LOCATED IN YARD AREAS. COLLAR TO BE SET 1" ABOVE ADJACENT GROUND GRADES.
9. THE GRAVITY FLOW PIPES SHALL BE INSTALLED BEFORE PRESSURE PIPES. IF THERE IS ANY CONFLICT BETWEEN GRAVITY FLOW PIPE AND PRESSURE PIPES, KEEP THE INVERT OF GRAVITY FLOW PIPES AND ADJUST THE PRESSURE PIPE DEPTH.
10. ALL STORM SEWER TO BE PRIVATELY OWNED AND MAINTAINED.
11. WHERE CONNECTIONS ARE MADE TO EXISTING MANHOLES OR INLET STRUCTURES, THOSE STRUCTURES SHALL BE REHABILITATED OR REPLACED TO THOSE MINIMUM STANDARDS OUTLINED IN CHAPTERS 400 AND 500 OF THE CITY OF INDIANAPOLIS STORMWATER SPECIFICATIONS MANUAL, LATEST EDITION. THE REHABILITATION SHALL INCLUDE THE INSTALLATION OF BENCH WALLS, AS WELL AS PRESCRIBED MEASURES TO ELIMINATE THE POTENTIAL FOR MIGRATION OF BACKFILL MATERIALS INTO THE STORMWATER SYSTEM."
12. ALL PROPOSED STORM SEWER AND DRAINAGE APPURTENANCES SHALL BE IN CONFORMANCE WITH CHAPTERS 400 AND 500 OF THE CITY OF INDIANAPOLIS STORMWATER SPECIFICATIONS MANUAL, LATEST EDITION. DESCRPANCIES BETWEEN THE PLANS AND THE MANUAL SHALL NOT ALLEVIATE THE CONTRACTOR FROM ADHERING TO THE REQUIREMENTS AS SET FORTH IN THE MANUAL."
13. CONNECT ALL UNDER DRAINS TO NEARBY STORM STRUCTURE/PIPE.
14. PER SECTION 202.12, CONNECTIONS TO EXISTING MANHOLES REQUIRE THAT THE STRUCTURE BE REHABILITATED TO CURRENT CEG DESIGN STANDARDS, I.E. BENCHWALL FORMATION, SEALING CRACKS, CHIMNEY SEAL INSTALLATION, ETC.
15. PER SECTION 401.07.2, LATERALS ARE REQUIRED TO HAVE TRACER WIRE INSTALLED ON THE TOP OF THE PIPE FROM THE SEWER MAIN TO THE BUILDING CLEANOUT.
16. ALL CLEANOUTS SHALL BE HEAVY DUTY AND ABLE TO WITHSTAND TRAFFIC LOADS.
17. PER CITIZENS SANITARY STANDARDS SECTON 602.08 CCTV INSPECTION – "THE CONTRACTOR SHALL CLEAN AND TELEVISE ALL SANITARY SEWERS PRIOR TO ACCEPTANCE BY THE UTILITY. A DIGITAL COPY OF THE INSPECTION SHALL BE SUBMITTED TO THE UTILITY FOR THE REVIEW." THE EXISTING LATERAL STUB SHALL BE CLEANED AND CCTV INSPECTED FROM THE CONNECTION POINT TO THE CITIZENS SANITARY MAIN.

2A OVERALL SITE UTILITY PLAN
1" = 40'

SCHMIDT
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A2	Addendum 2	01.04.2022

7300 E 56th Street
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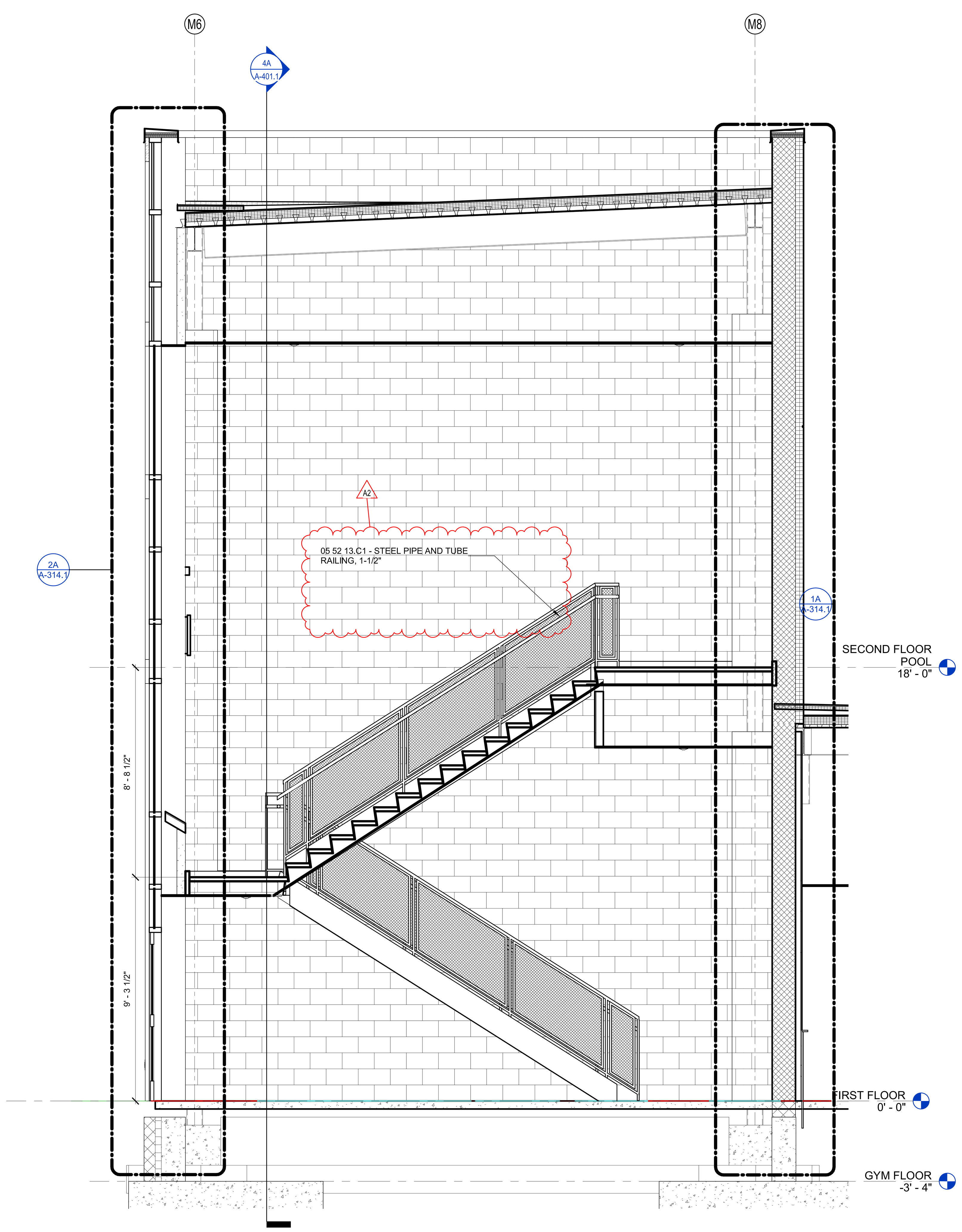
MSD OF LAWRENCE TOWNSHIP

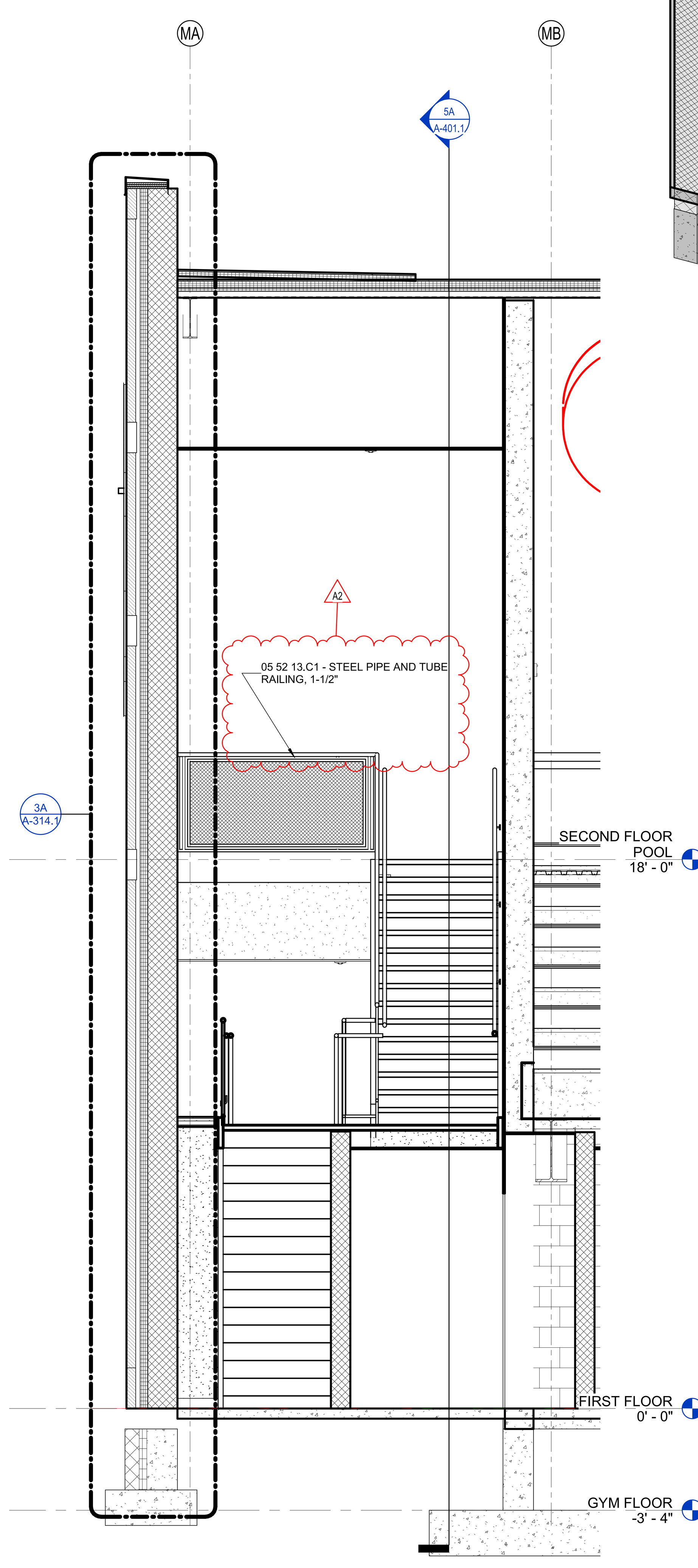
LAWRENCE CENTRAL HIGH SCHOOL POOL

SITE UTILITY PLAN

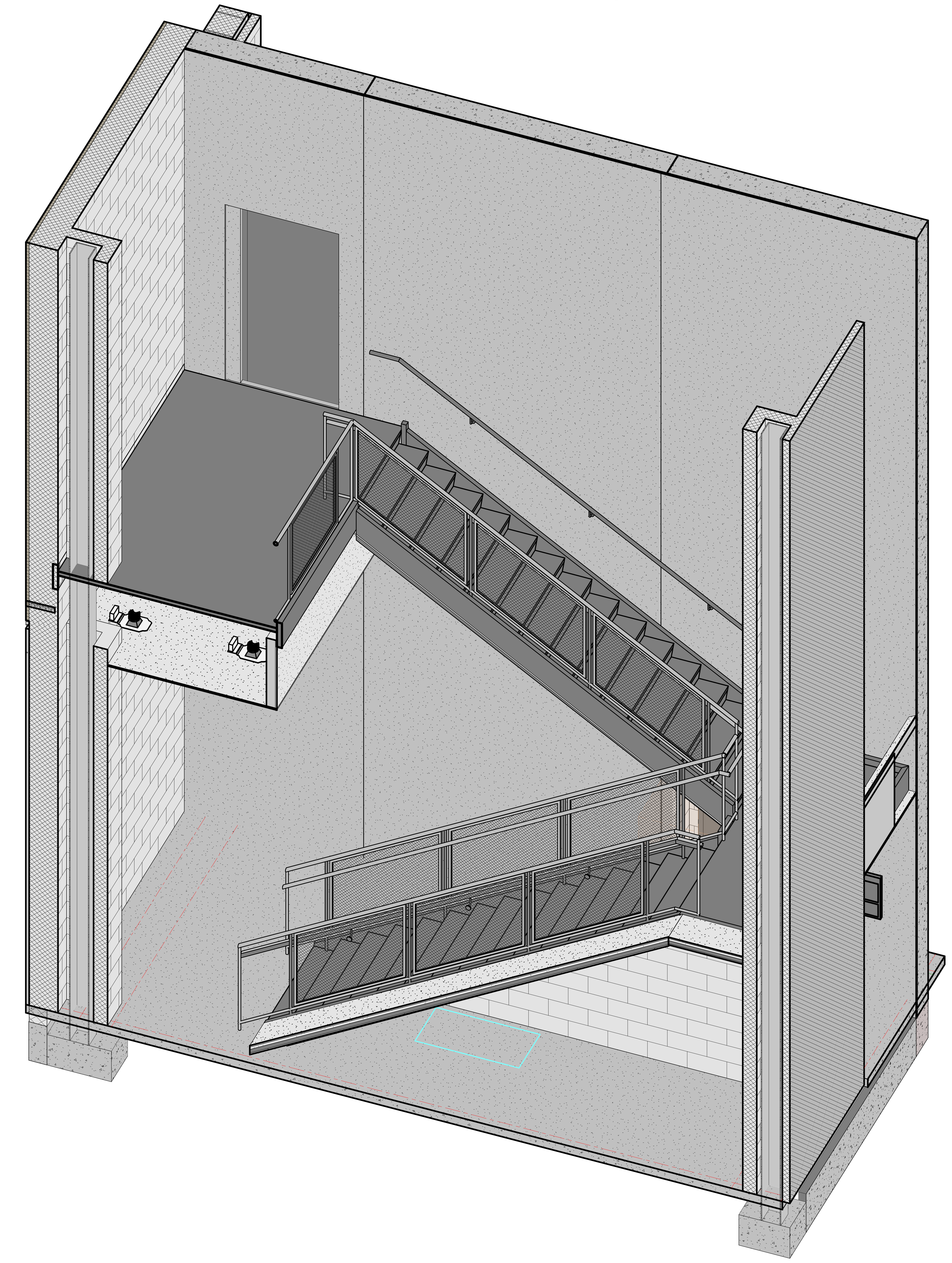
CU101.1



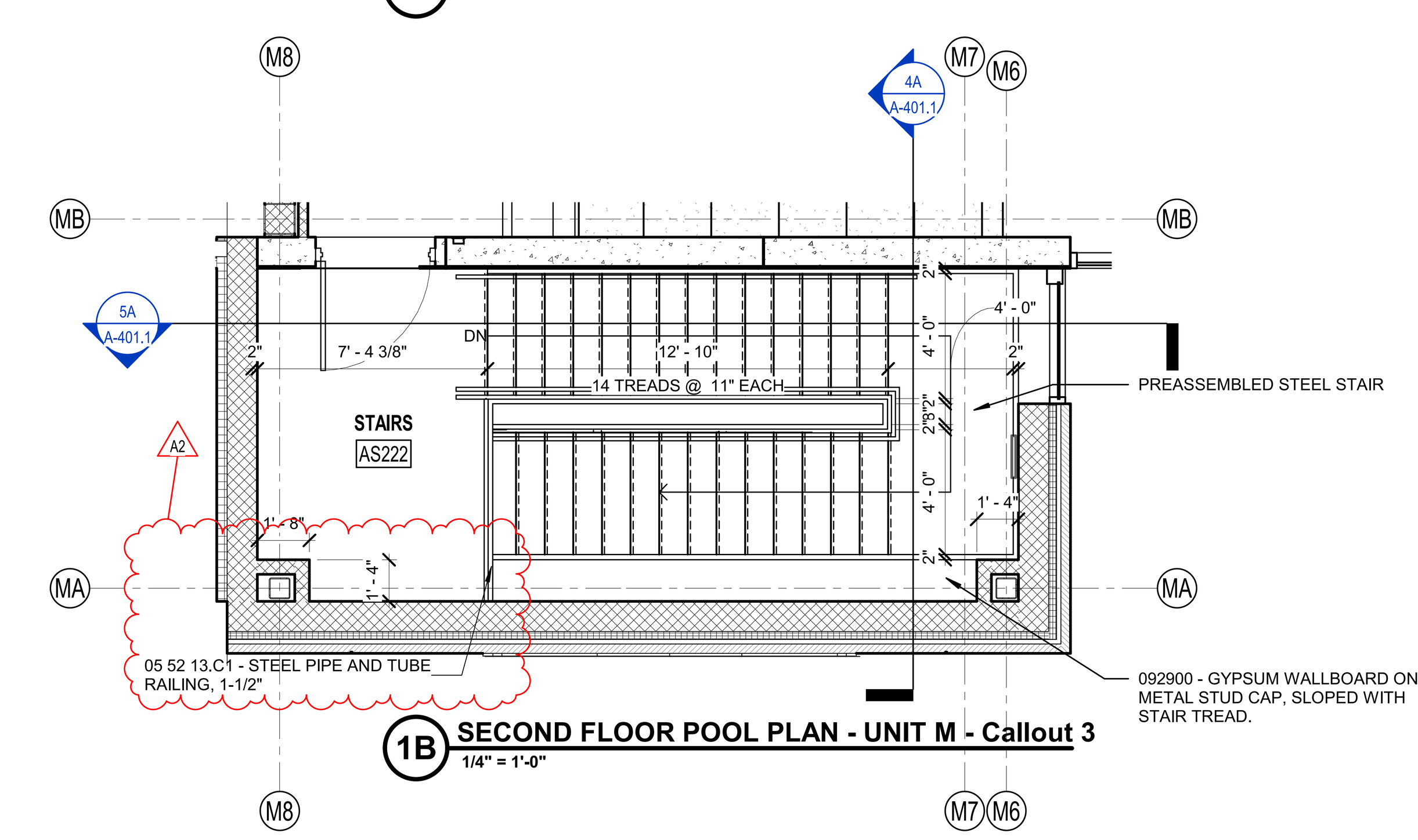
5A STAIR SECTION AS122
3/8" = 1'-0"



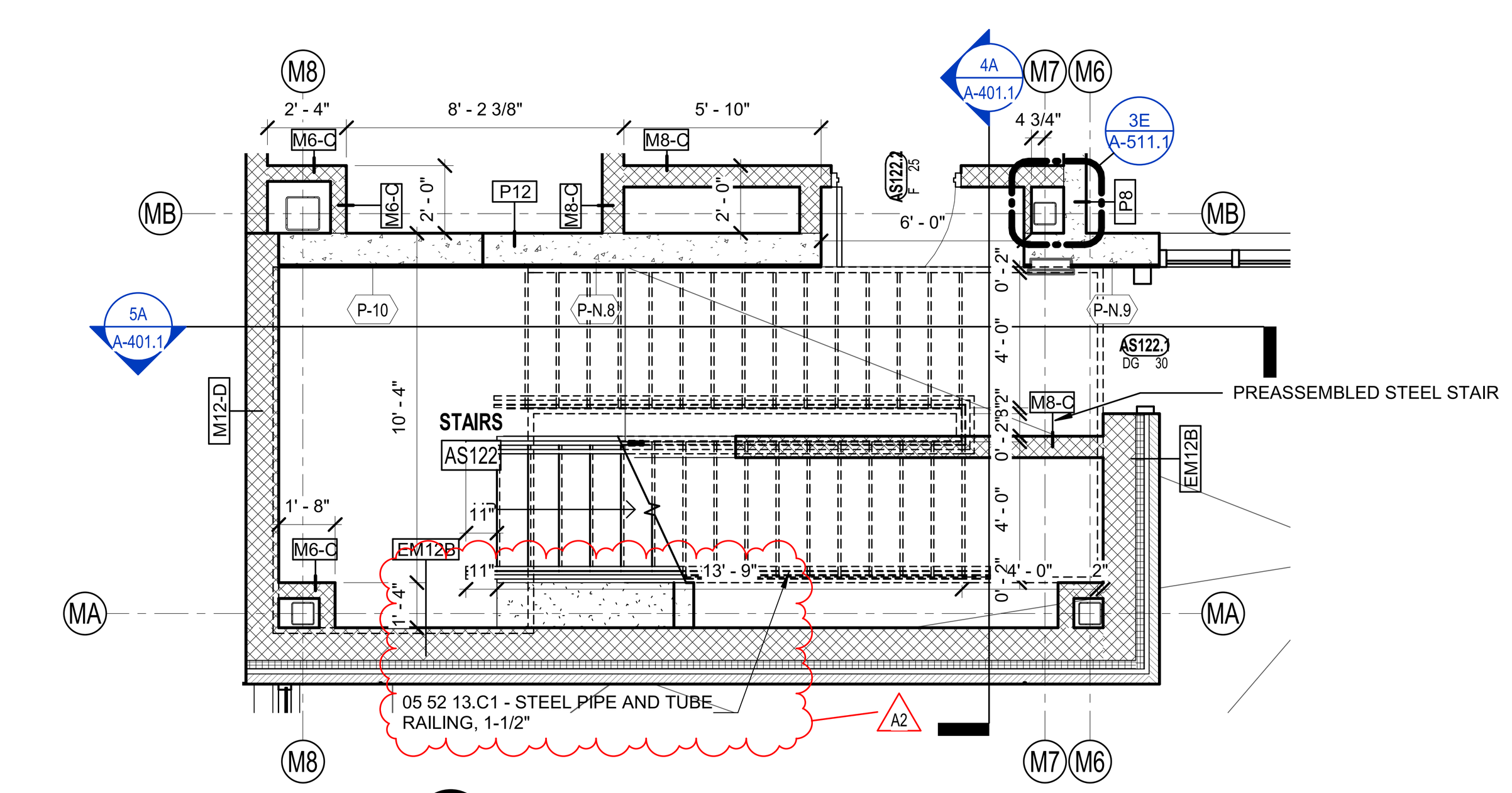
4A STAIR SECTION AS122
3/8" = 1'-0"



1C 3D VIEW - STAIR AS122



1B SECOND FLOOR POOL PLAN - UNIT M - Callout 3
1/4" = 1'-0"



1A FIRST FLOOR PLAN - UNIT M - Callout 1
1/4" = 1'-0"

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
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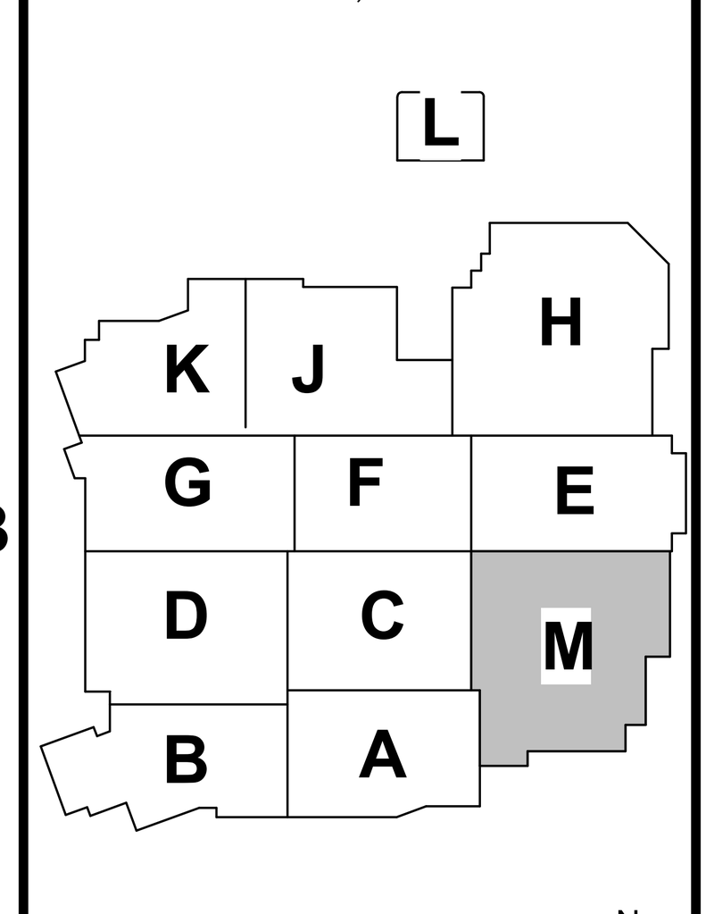
Project No. 2018-050.LCP
Project Date 12.01.2021
Produced RB JH

SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

#	Revision	Date
A2	Addendum #2	01.04.2022

7300 E 56th St.
Lawrence, IN 46226



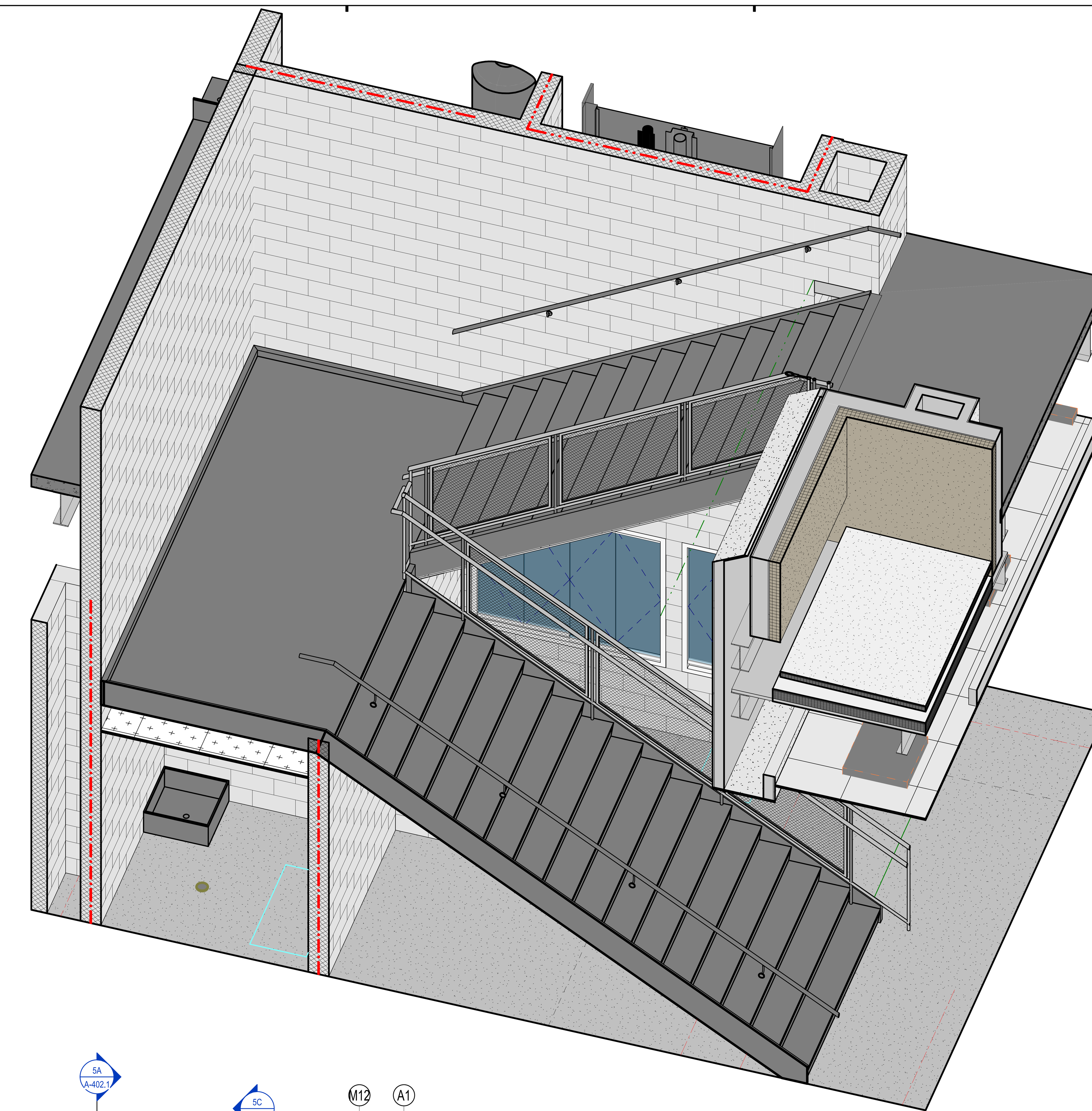
KEY PLAN

MSD OF LAWRENCE TOWNSHIP

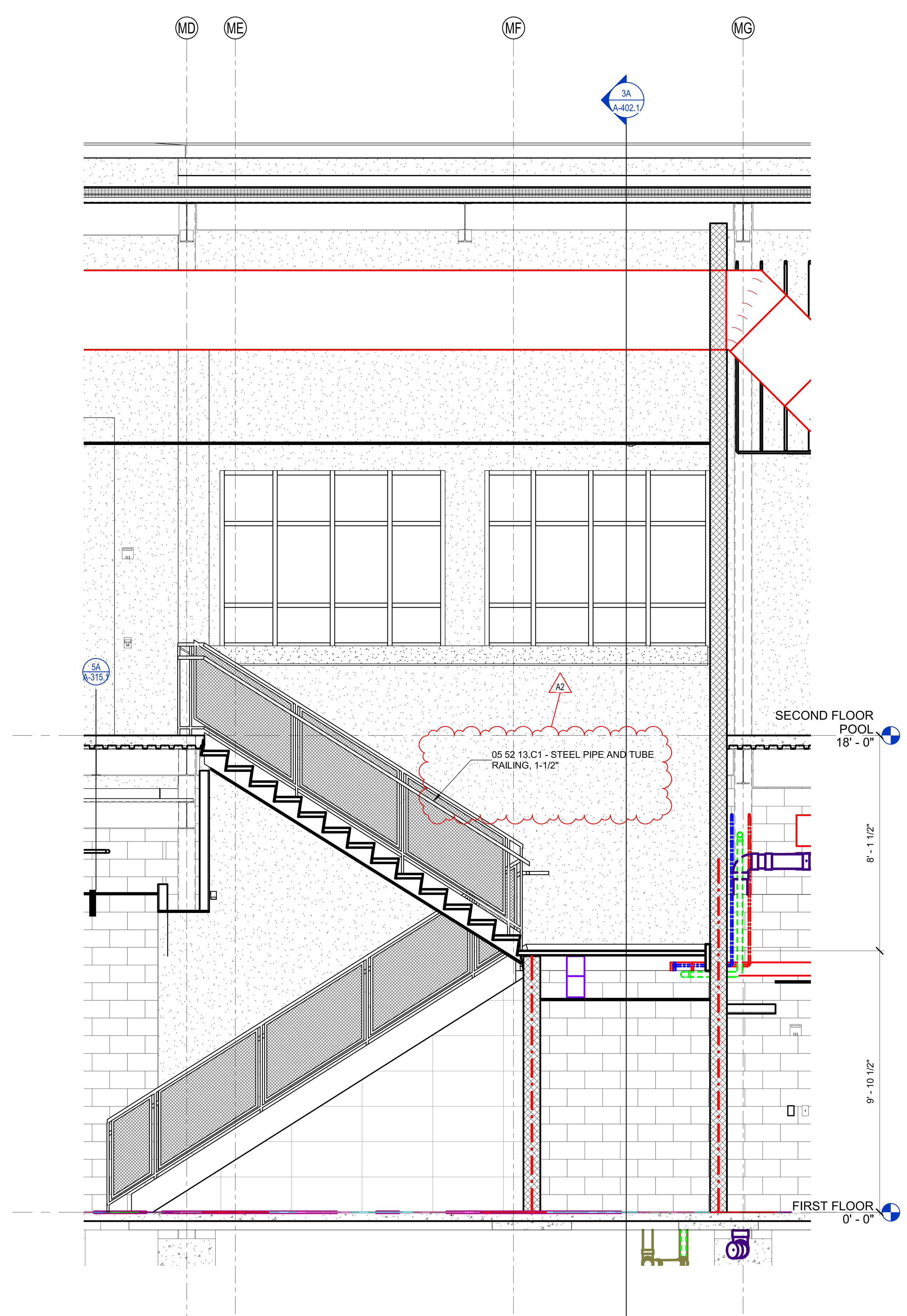
LAWRENCE CENTRAL HIGH SCHOOL POOL

ENLARGED PLANS - STAIRS

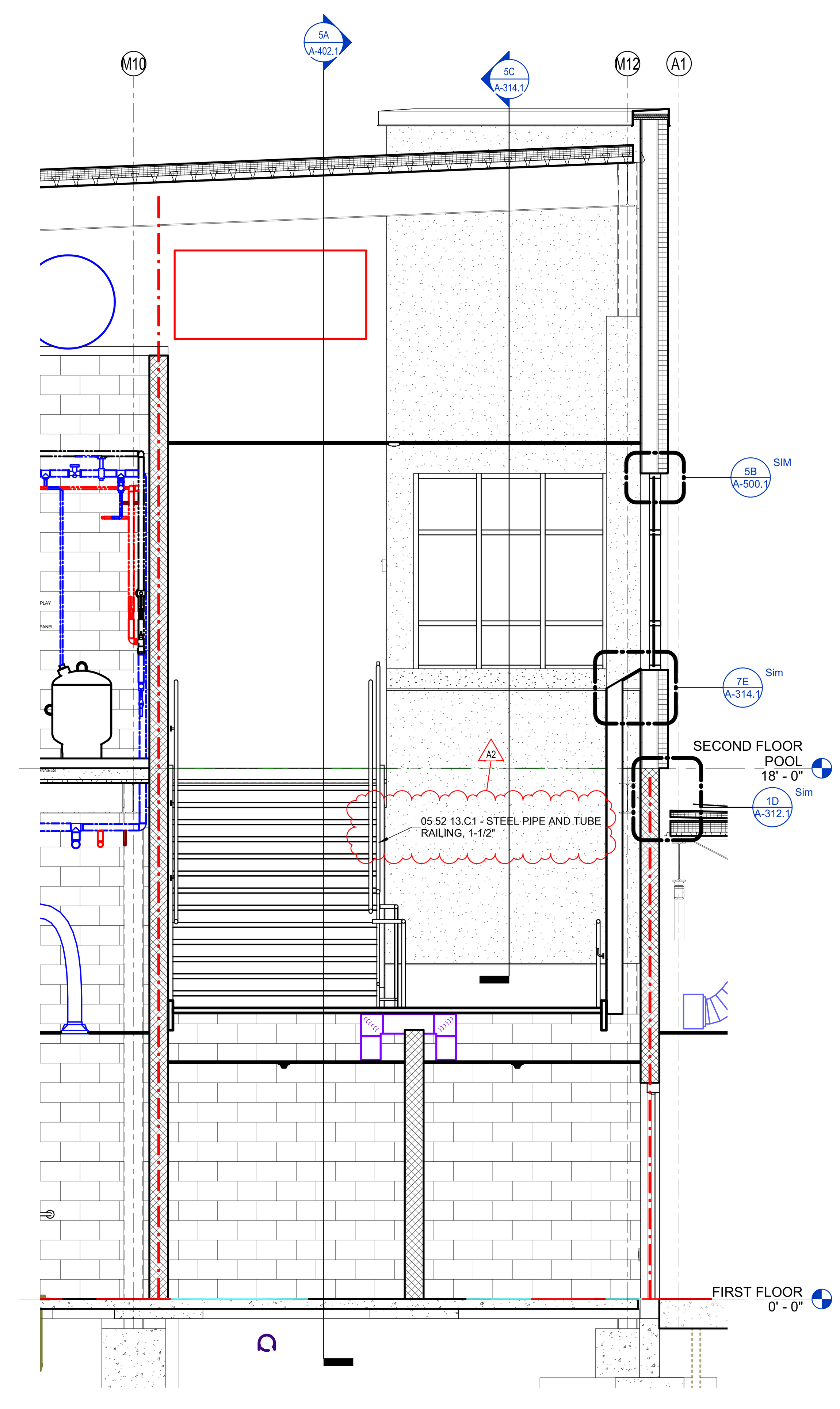
A-401.1



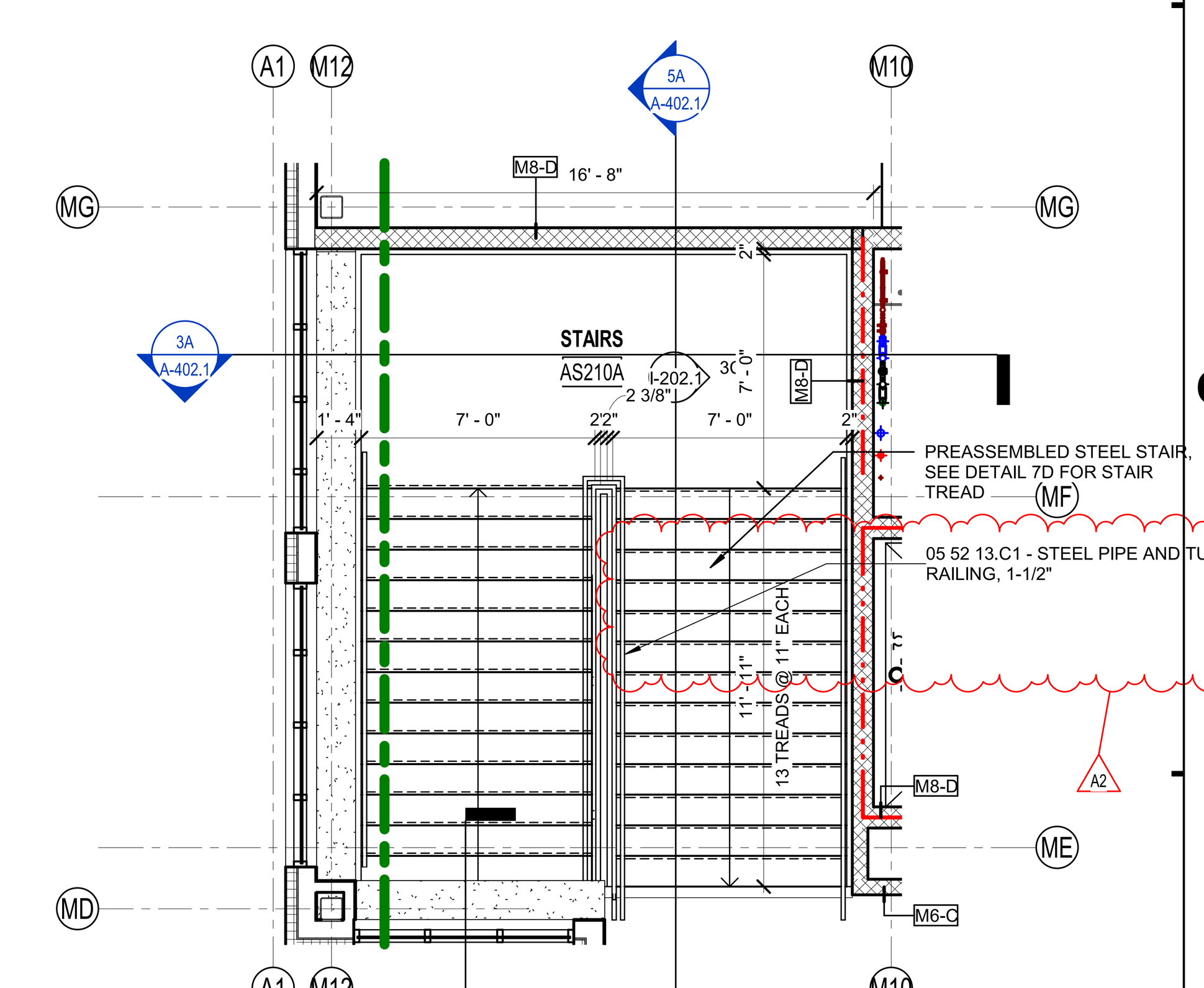
1D 3D VIEW - STAIR AS110A



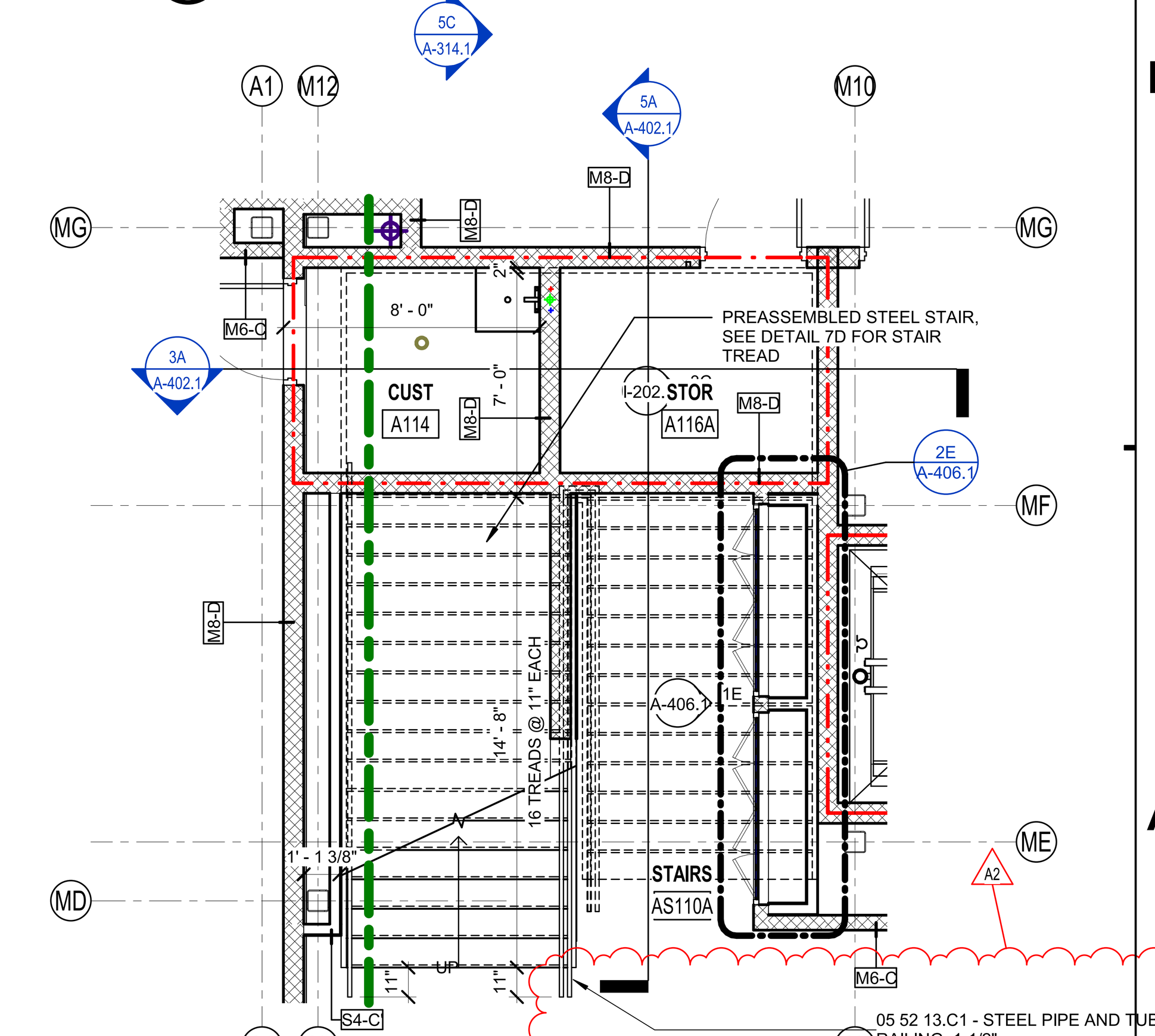
5A STAIR SECTION AS110A
3/8" = 1'-0"



3A STAIR SECTION AS110A
3/8" = 1'-0"



1C SECOND FLOOR POOL PLAN - UNIT M - Callout 2
1/4" = 1'-0"



1A FIRST FLOOR PLAN - UNIT M - Callout 2
1/4" = 1'-0"

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Project No. 2018-050.LCP
Project Date 12.01.2021
Produced RB JH

SARAH KATHLEEN HEMPSTEAD
REGISTERED
No. AR10400134
STATE OF INDIANA
ARCHITECT

#	Revision	Date
A2	Addendum #2	01.04.2022

7300 E 56th St.
Lawrence, IN 46226

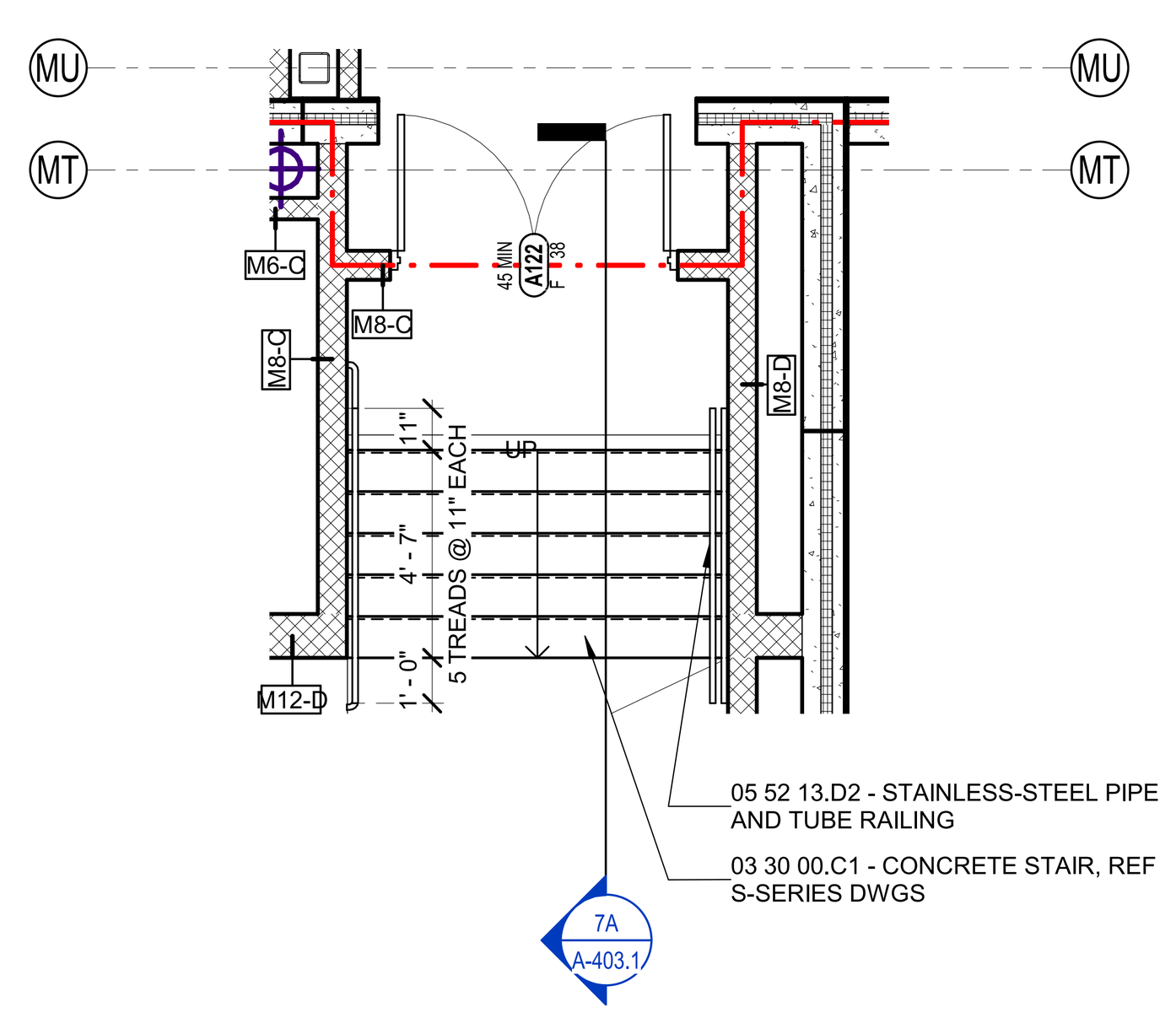
KEY PLAN

MSD OF LAWRENCE TOWNSHIP

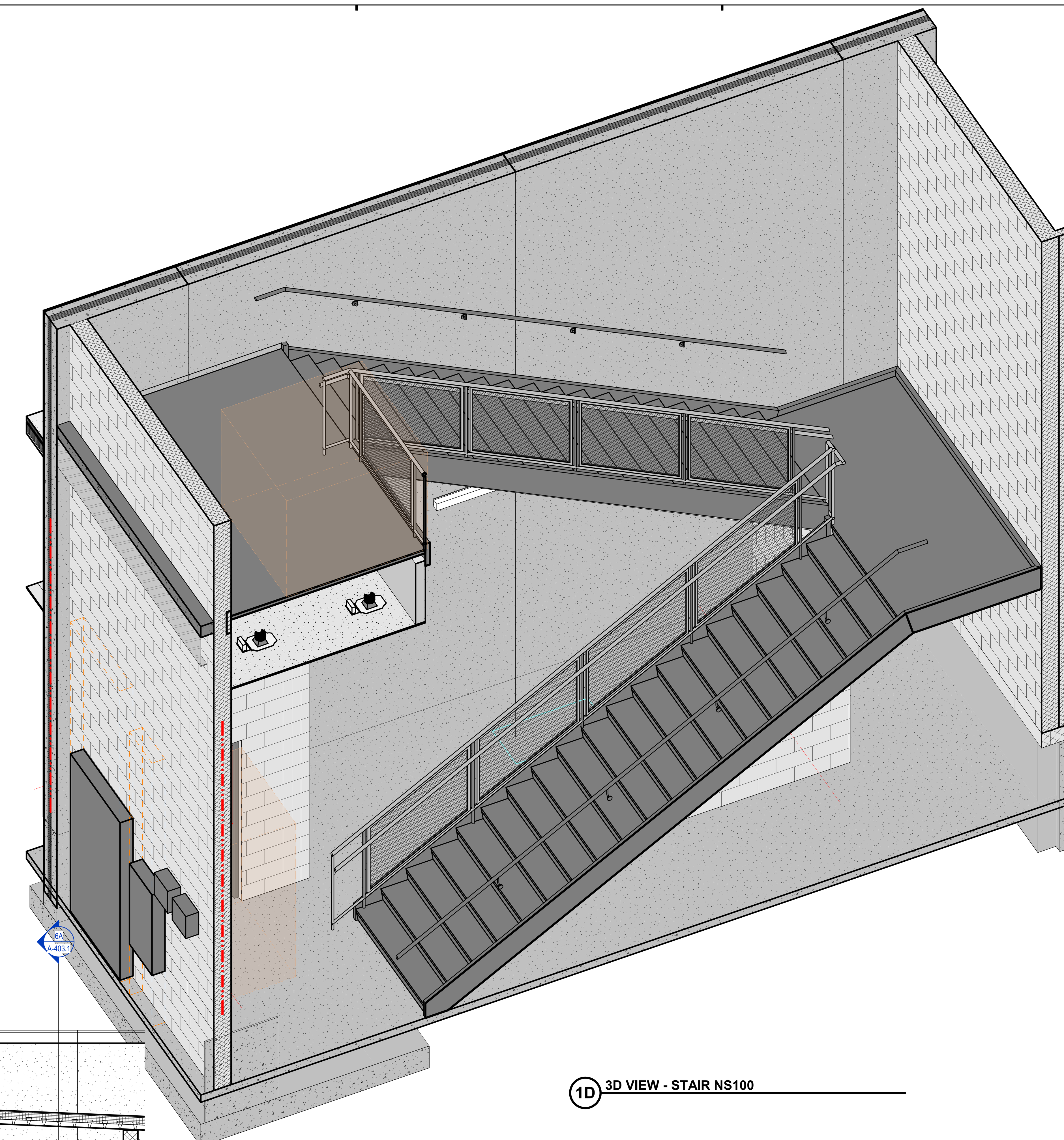
LAWRENCE CENTRAL HIGH SCHOOL POOL

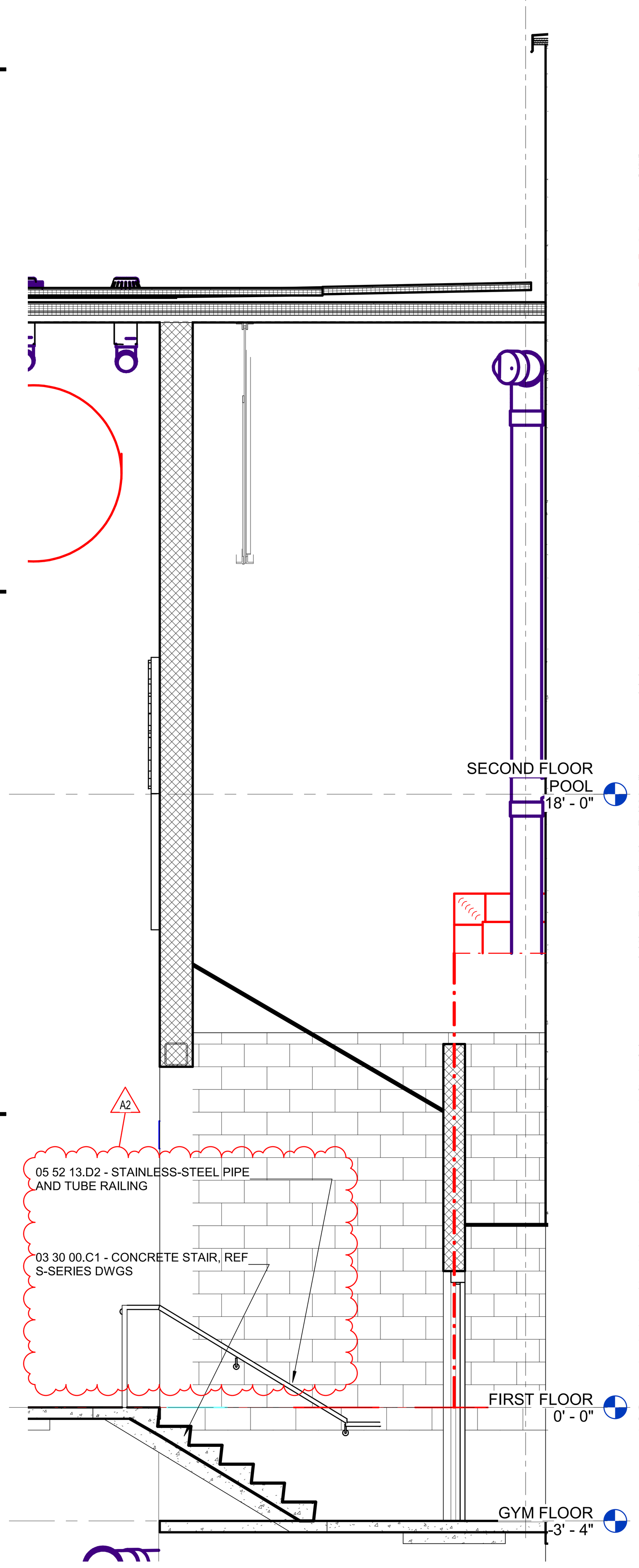
ENLARGED PLANS - STAIRS

A-402.1

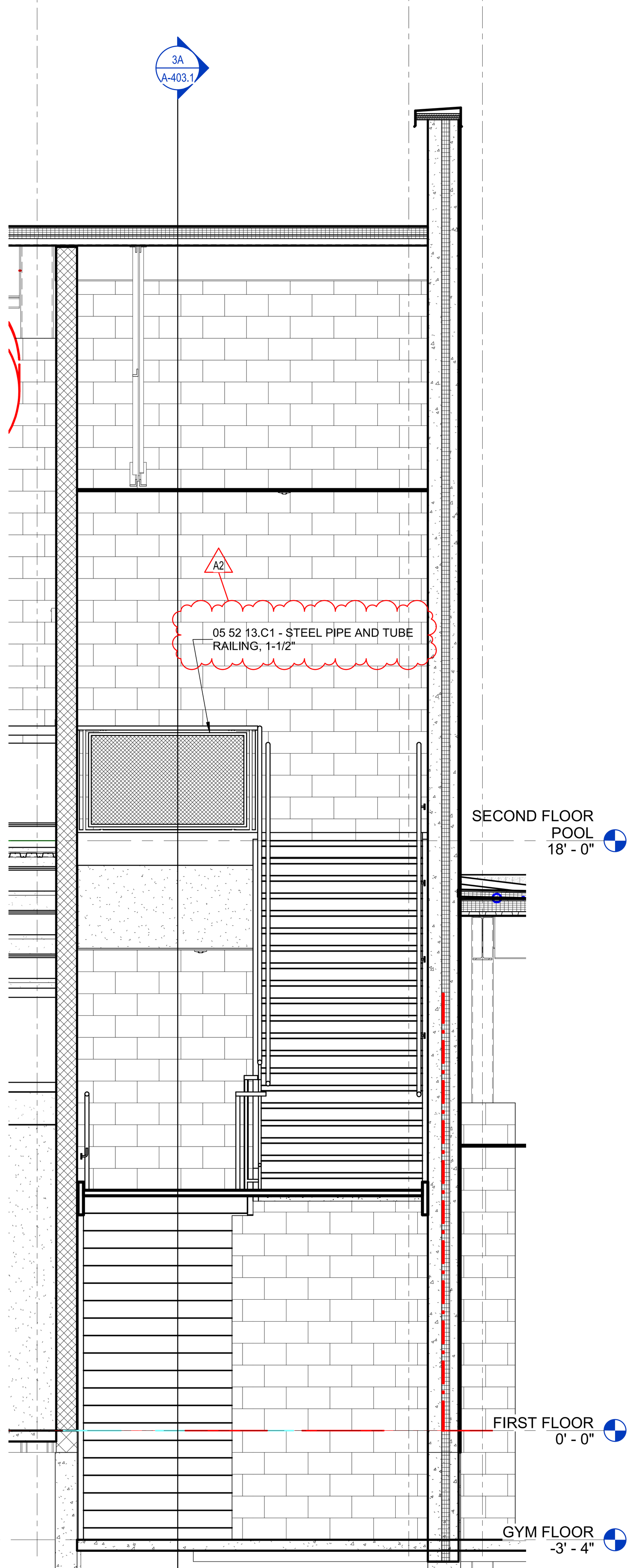


7E STAIR TO POOL
1/4" = 1'-0"

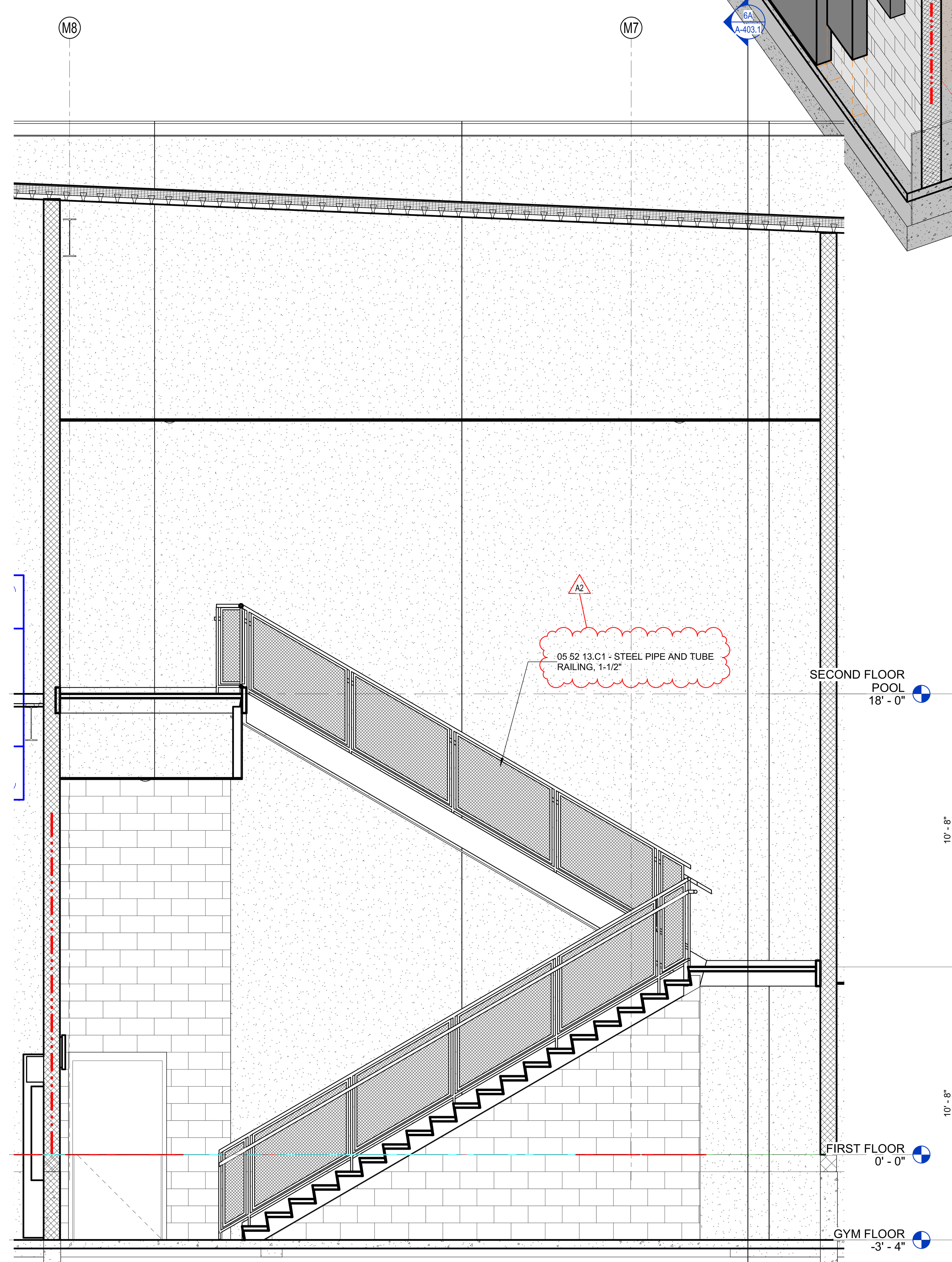

1D 3D VIEW - STAIR NS100



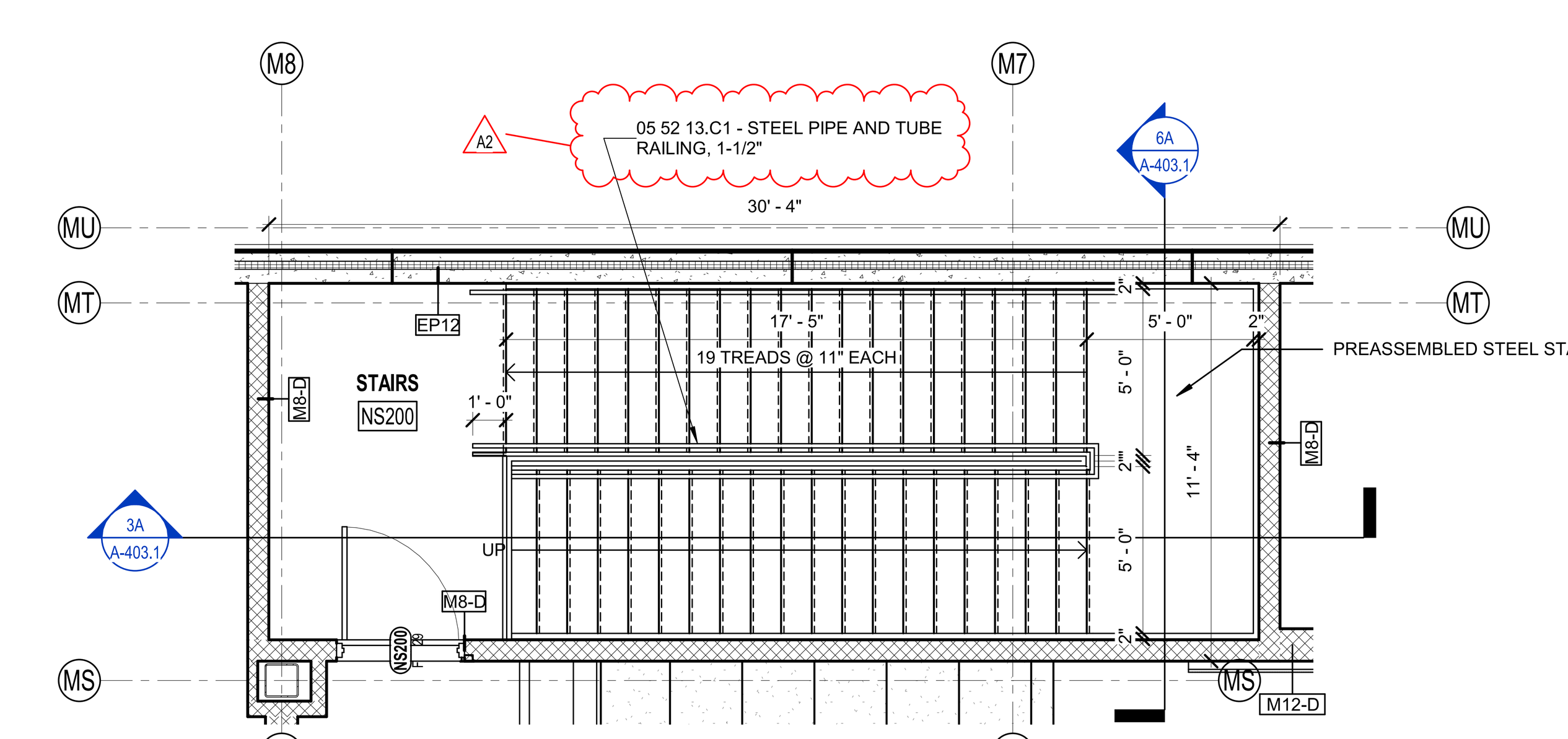
7A STAIR TO POOL SECTION
3/8" = 1'-0"



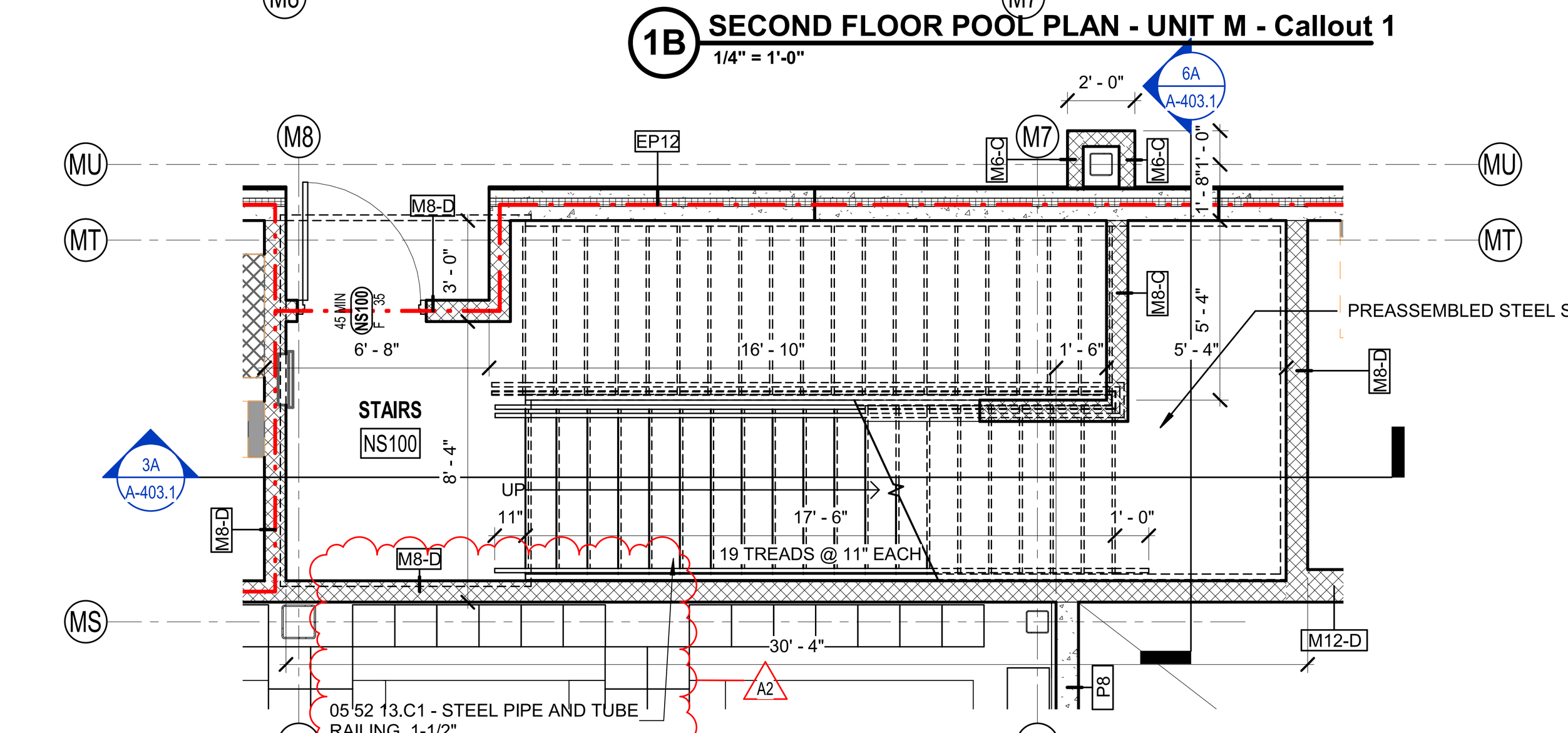
6A STAIR SECTION NS100
3/8" = 1'-0"



3A STAIR SECTION NS100
3/8" = 1'-0"



1B SECOND FLOOR POOL PLAN - UNIT M - Callout 1
1/4" = 1'-0"



1A FIRST FLOOR PLAN - UNIT M - Callout 3
1/4" = 1'-0"

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SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

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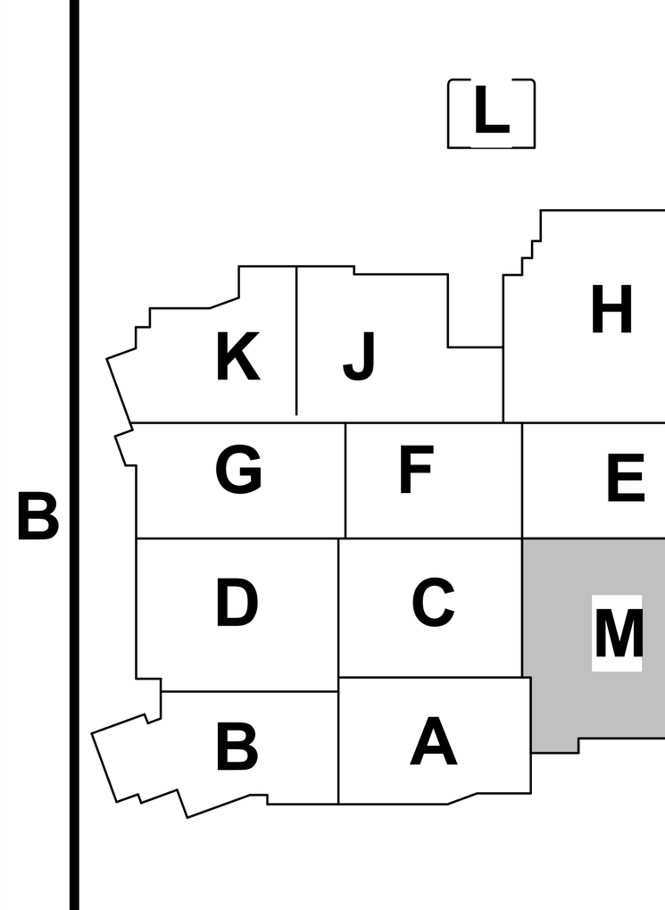


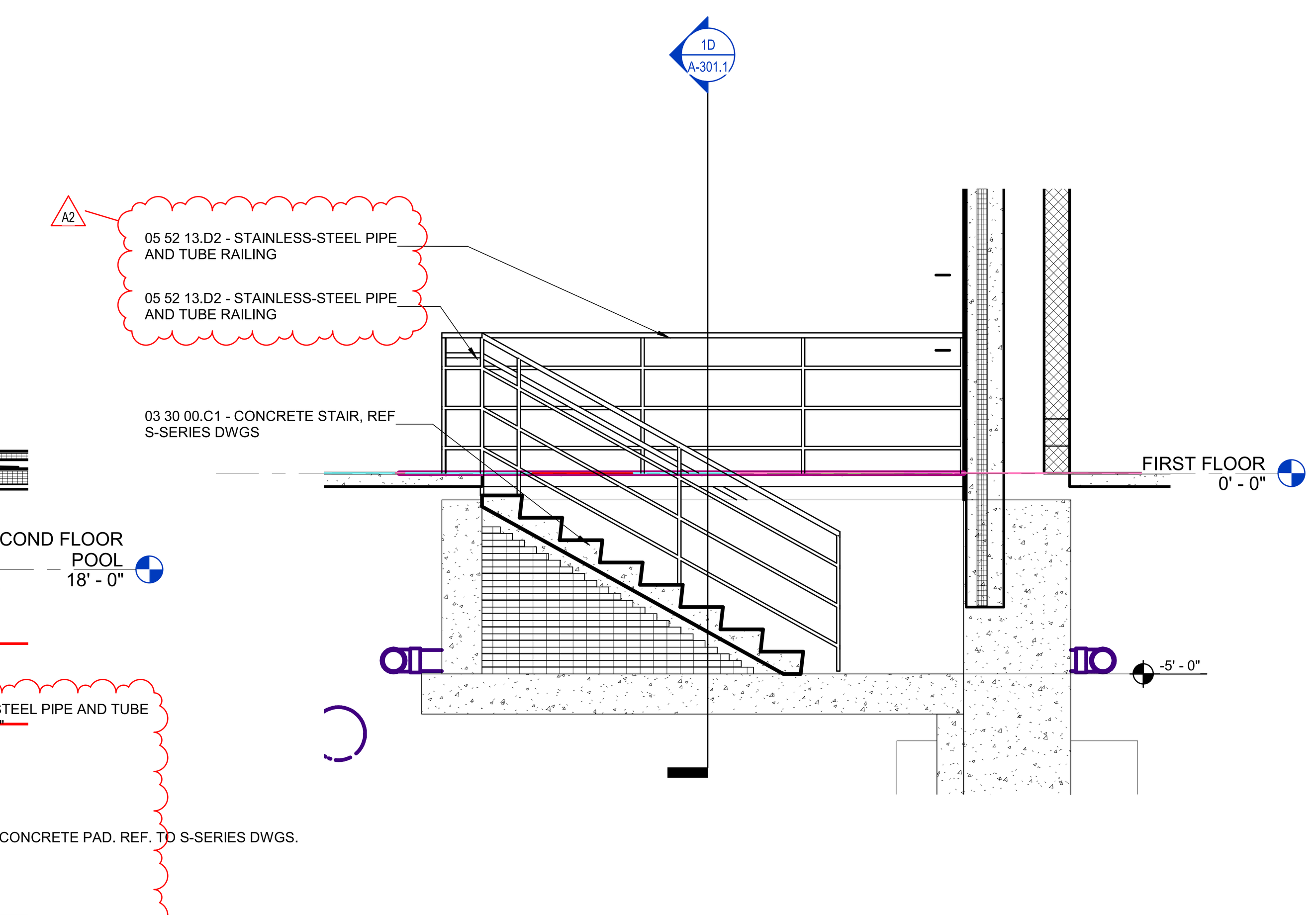
KEY PLAN

MSD OF LAWRENCE TOWNSHIP

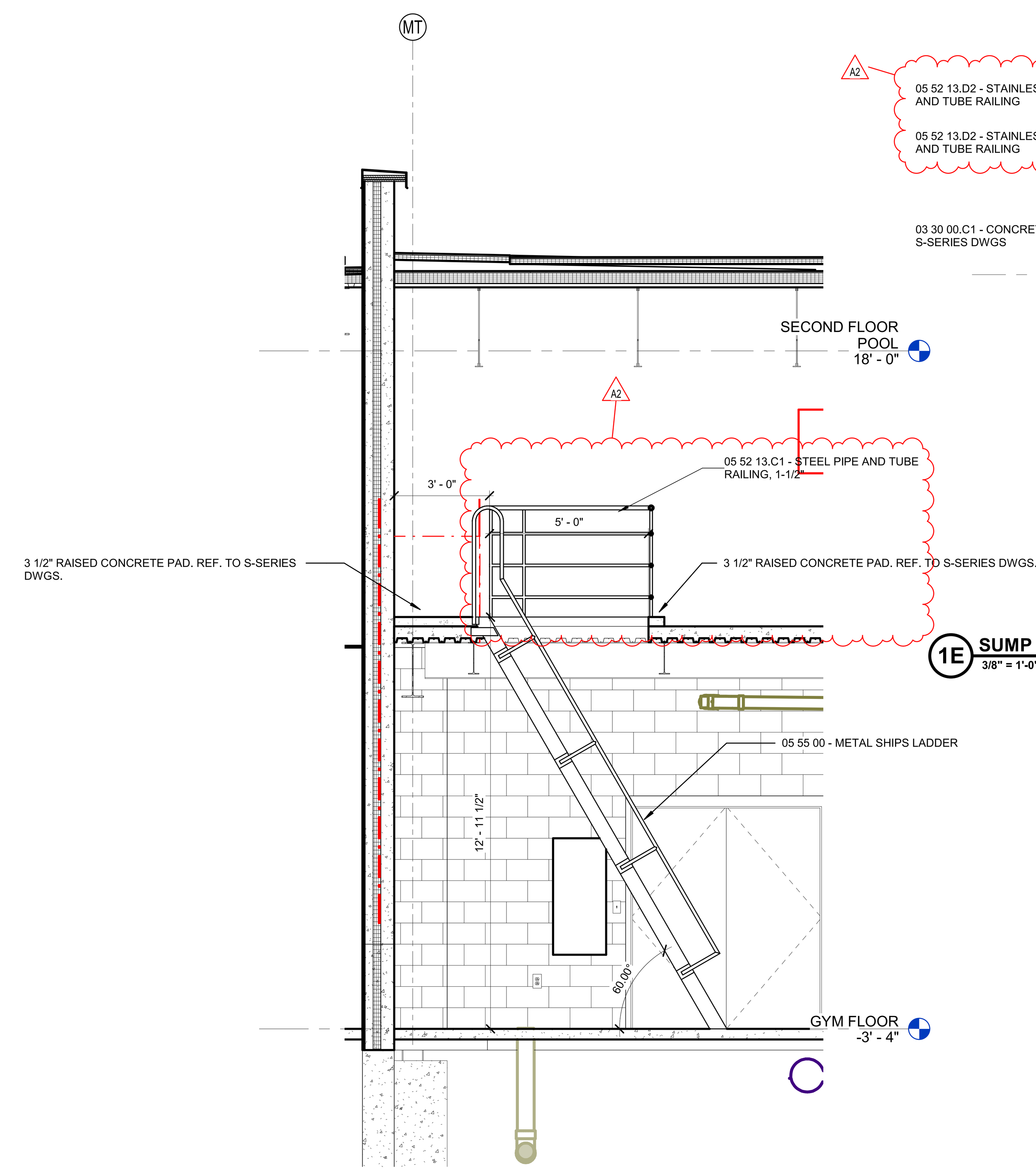
LAWRENCE CENTRAL HIGH SCHOOL POOL

ENLARGED PLANS - STAIRS

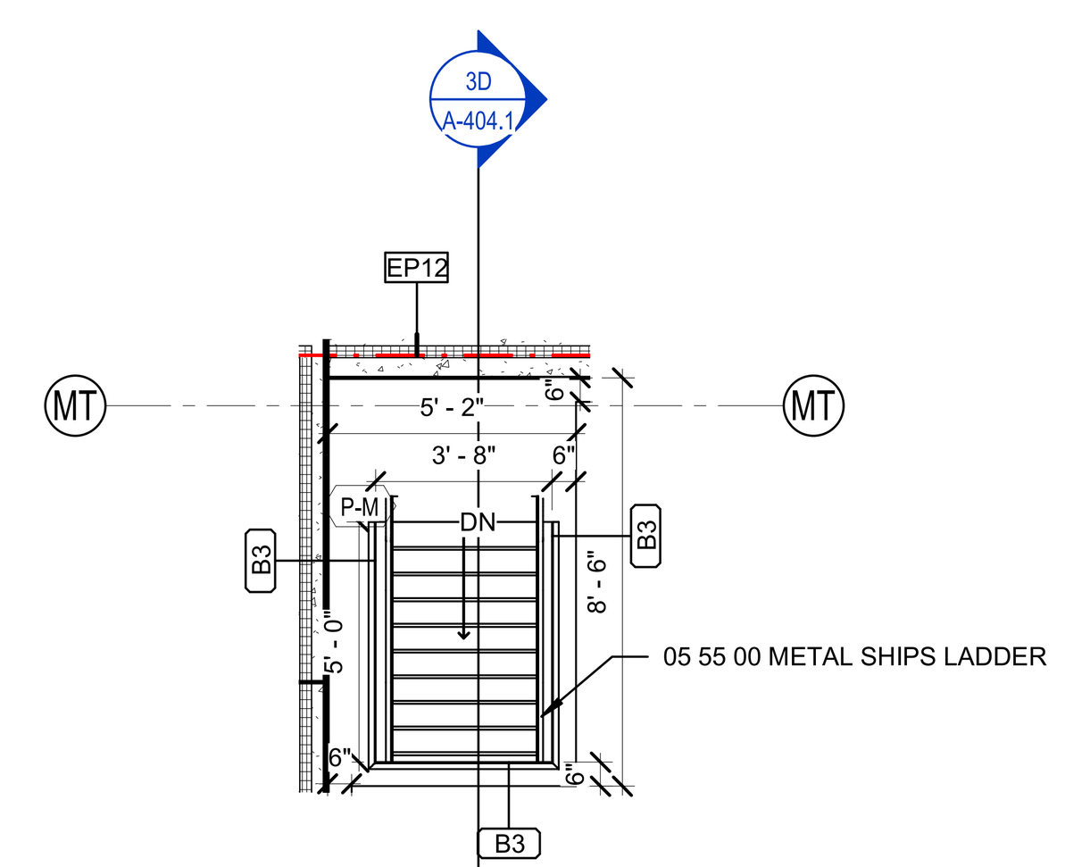
A-403.1



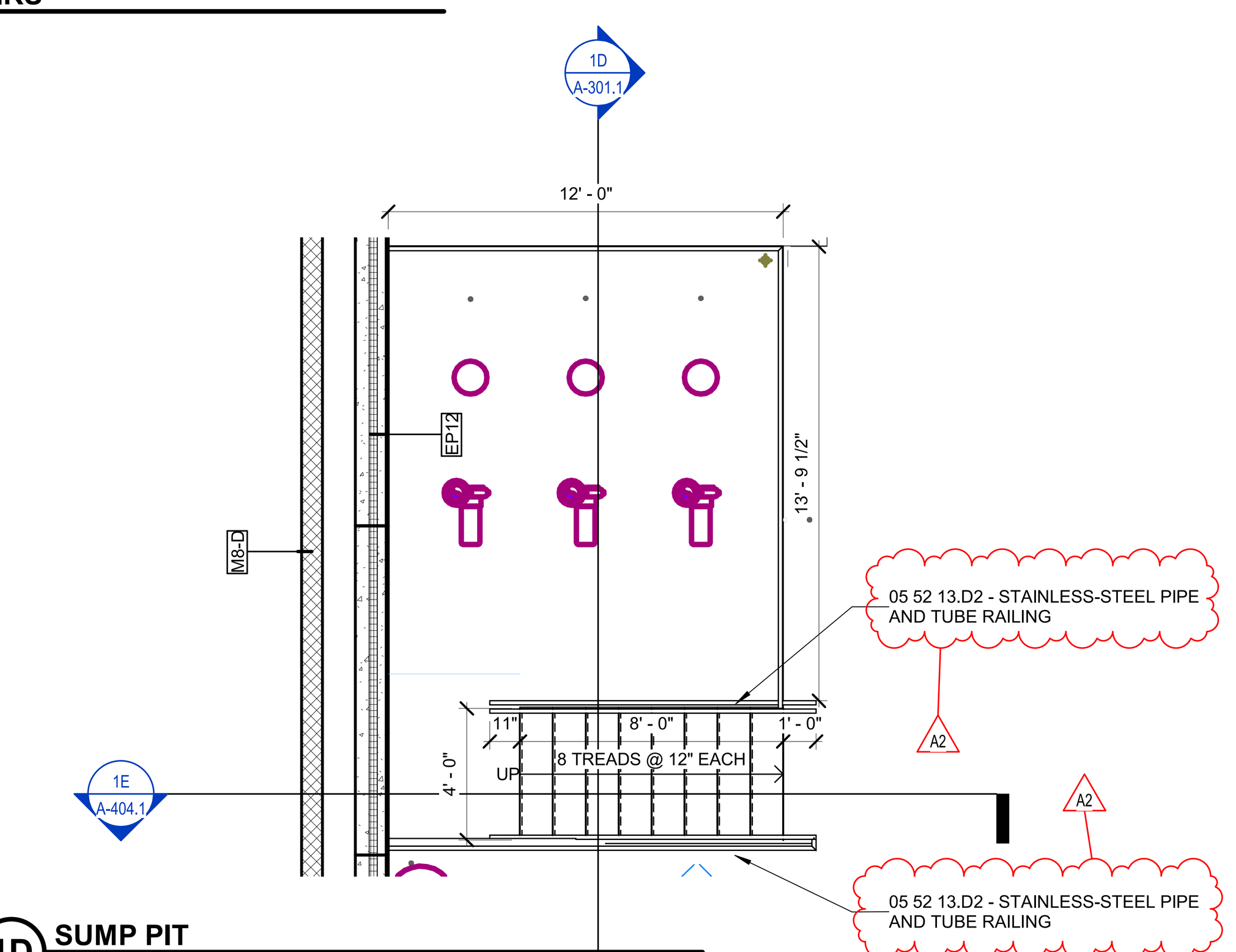
1E SUMP PIT STAIRS
3/8" = 1'-0"



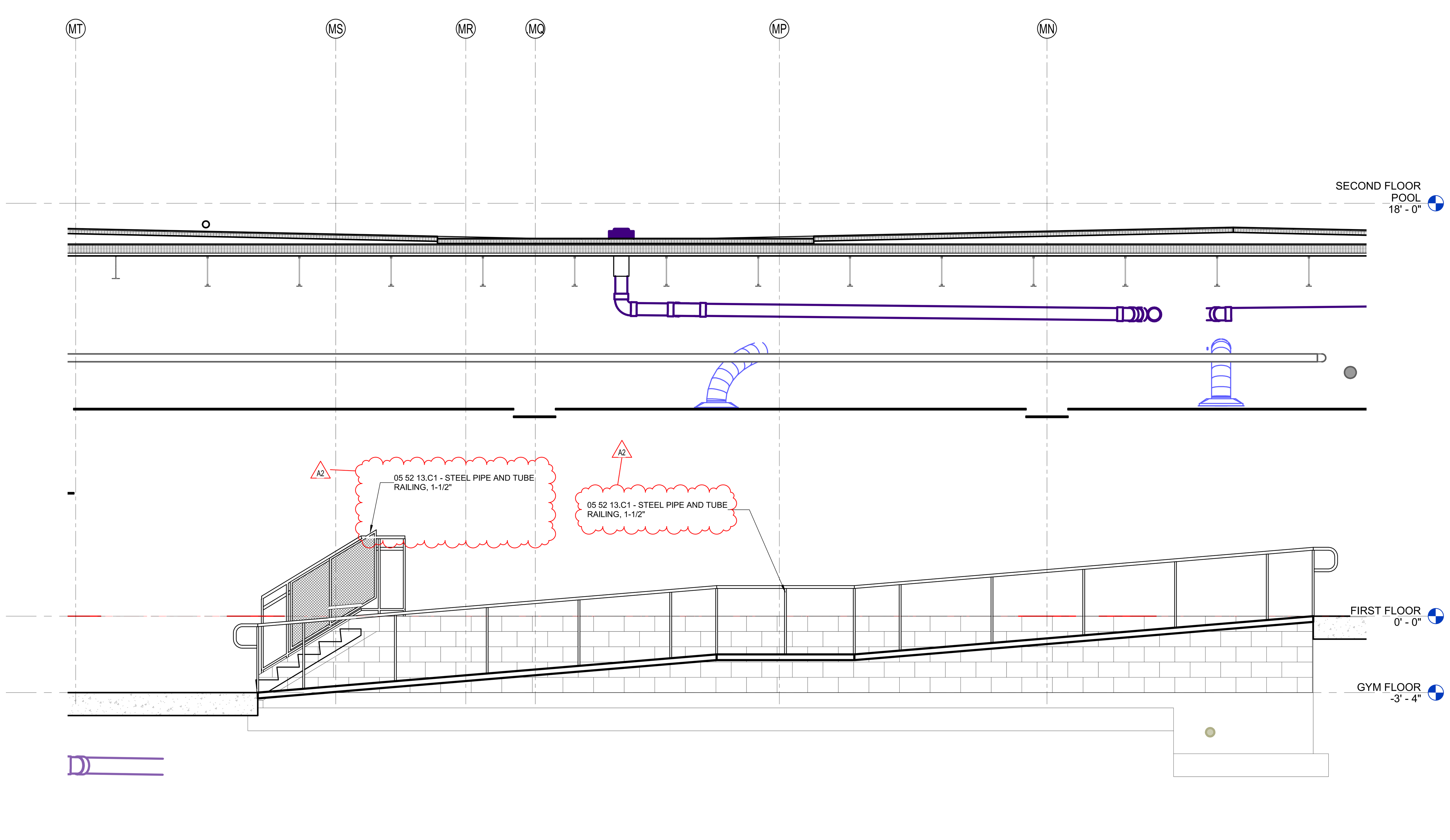
3D SHIP LADDER SECTION
3/8" = 1'-0"



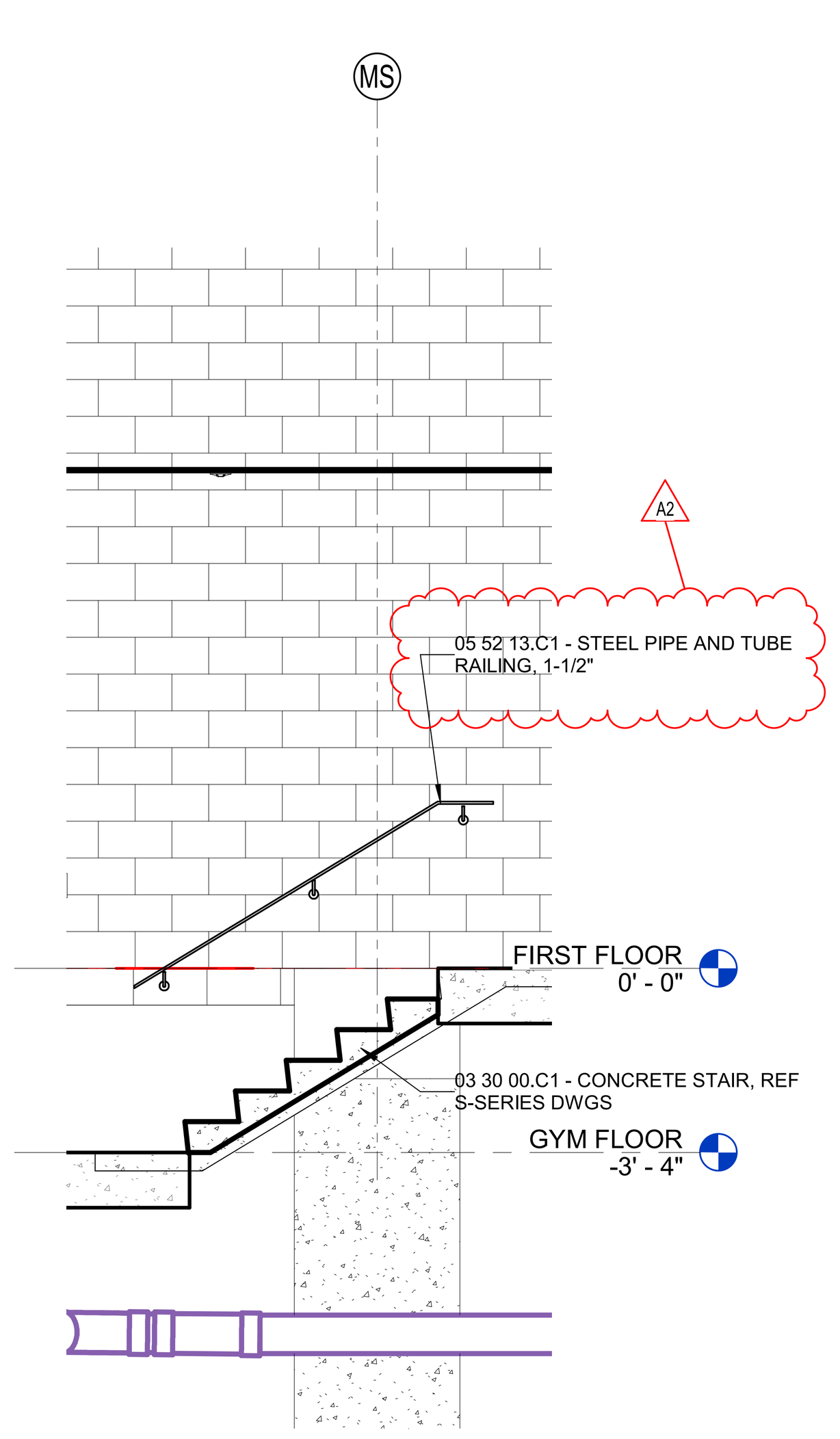
4D SHIP LADDER PLAN
1/4" = 1'-0"



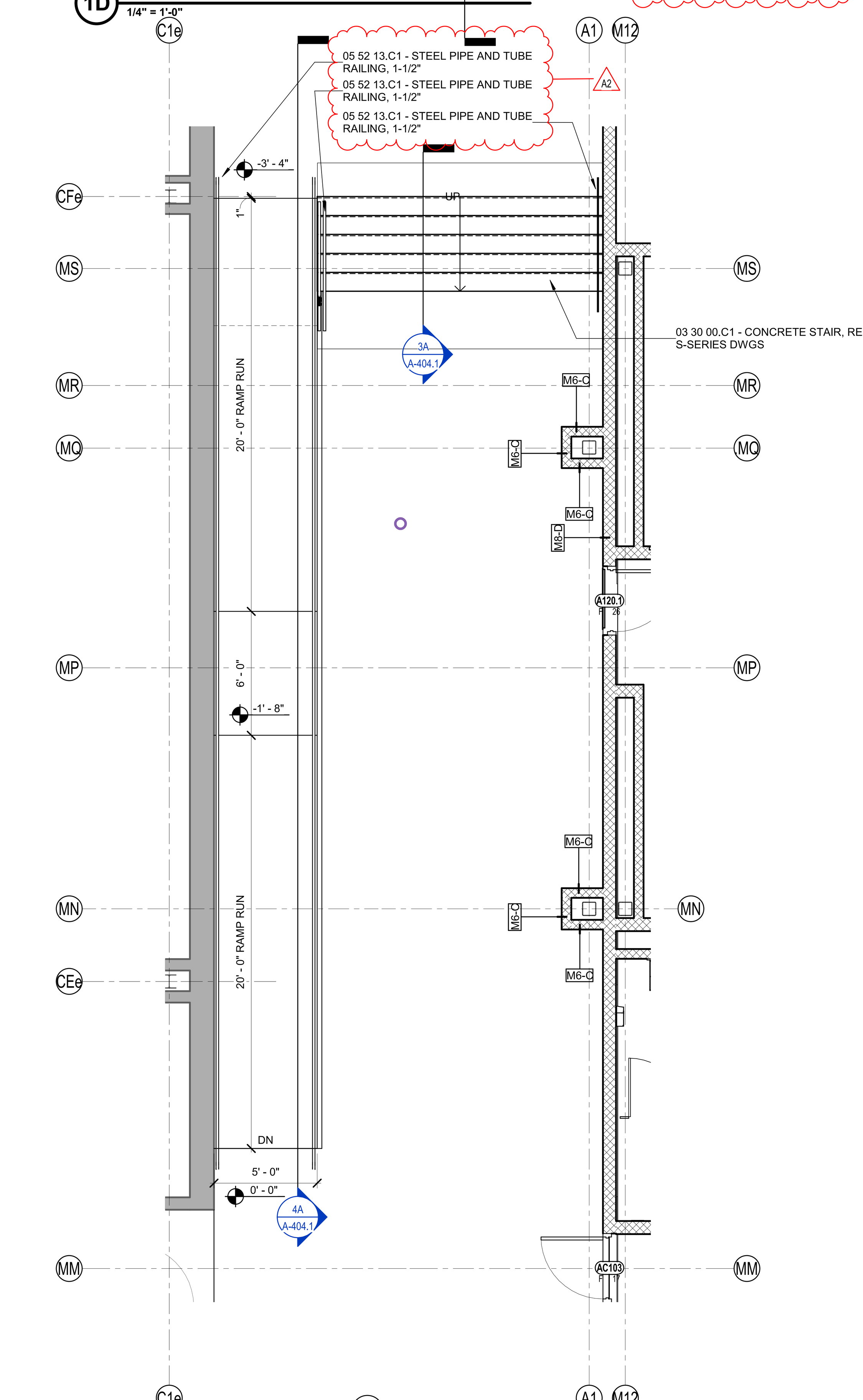
1D SUMP PIT
1/4" = 1'-0"



4A CORRIDOR RAMP
3/8" = 1'-0"



3A CORRIDOR STAIR
3/8" = 1'-0"



1A CORRIDOR RAMP AND STAIR
1/4" = 1'-0"

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Project Date 02/11/21
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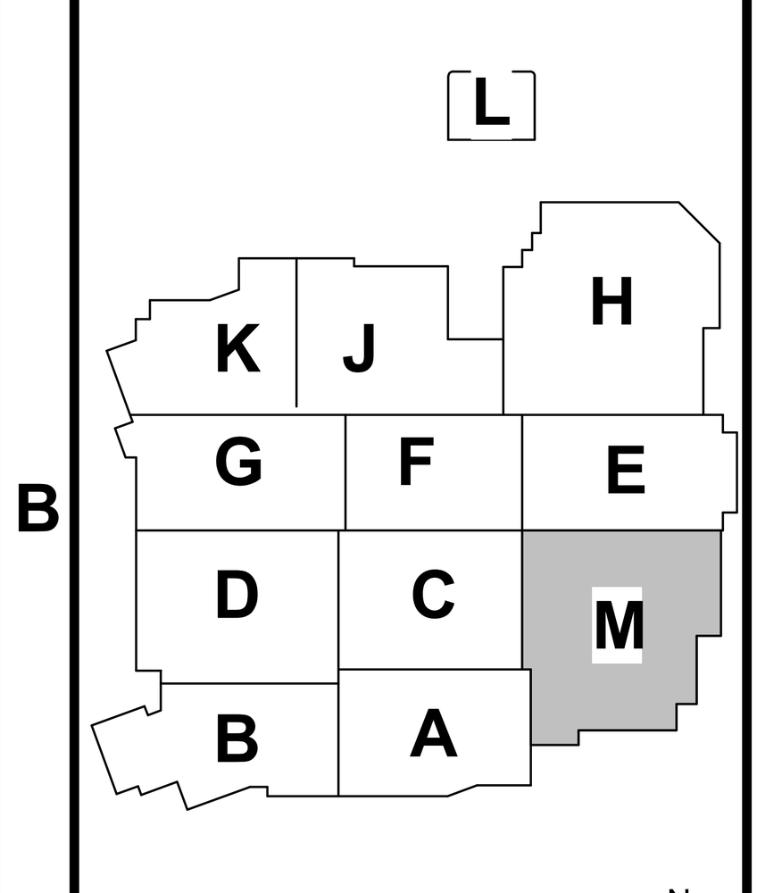


KEY PLAN

MSD OF LAWRENCE TOWNSHIP

ENLARGED PLANS - STAIRS

A-404.1

DOOR & FRAME SCHEDULE

MARK	DOOR PANEL TYPE	DOOR PANEL QTY	DOOR PANEL MATL	DOOR PANEL GLAZ	SIZE H	SIZE W	SIZE TH	FRAME MARK	FRAME MATL	FRAME GLAZ	LABEL	HDWR SET	NOTES	MARK
A104	DG	1	AL	TG	7' - 0"	3' - 0"	0' - 1 3/4"	SF1	AL	--		11		A104
A112.1	F	1	WD	--	7' - 0"	3' - 0"	0' - 1 3/4"	F2	HM	--		08	4	A112.1
A112.2	OHC		ST	--	4' - 0"	8' - 0"	0' - 0 3/4"	OH	--	--		39		A112.2
A112A	F	1	WD	--	7' - 0"	3' - 0"	0' - 1 3/4"	F2	HM	--		10	4	A112A
A114	F	1	WD	--	7' - 0"	3' - 0"	0' - 1 3/4"	F2	HM	--		18		A114
A116.1	DG	1	FRP	--	7' - 0"	3' - 0"	0' - 1 3/4"	F2	FRP	--		24	4	A116.1
A116.2	DG	1	FRP	TG	7' - 0"	3' - 0"	0' - 1 3/4"	F4	FRP	TG		27	4	A116.2
A116A	F	1	FRP	--	7' - 0"	3' - 0"	0' - 1 3/4"	F2	FRP	--		19	4	A116A
A118.1	F		WD	--	7' - 0"	3' - 0"	0' - 1 3/4"	F2	HM	--		26		A118.1
A118.2	F	1	FRP	--	7' - 0"	3' - 0"	0' - 1 3/4"	F2	FRP	--		28	4	A118.2
A118A	F	1	FRP	--	7' - 0"	3' - 0"	0' - 1 3/4"	F2	FRP	--		14	4	A118A
A118D.1	F	1	FRP	--	7' - 0"	3' - 6"	0' - 1 3/4"	F2	FRP	--		14	4	A118D.1
A118D.2	F	2	FRP	--	7' - 0"	6' - 0"	0' - 1 3/4"	F2	FRP	--		21	4	A118D.2
A120.1	F		WD	--	7' - 0"	3' - 0"	0' - 1 3/4"	F2	HM	--		26		A120.1
A120.2	F	1	FRP	--	7' - 0"	3' - 0"	0' - 1 3/4"	F2	FRP	--		28	4	A120.2
A120A	F	1	FRP	--	7' - 0"	3' - 0"	0' - 1 3/4"	F2	FRP	--		14	4	A120A
A120D.1	F	1	FRP	--	7' - 0"	3' - 6"	0' - 1 3/4"	F2	FRP	--		14	4	A120D.1
A120D.2	F	2	FRP	--	7' - 0"	6' - 0"	0' - 1 3/4"	F2	FRP	--		21	4	A120D.2
A122	F	2	FRP	--	7' - 0"	6' - 0"	0' - 1 3/4"	F2	FRP	--	45 MIN	38	4	A122
A122B	FG	1	FRP	TG	7' - 8"	3' - 0"	0' - 1 3/4"	F7	FRP	TG		09	4	A122B
A122C.1	F	1	FRP	--	7' - 0"	3' - 0"	0' - 1 3/4"	F2	FRP	--		08	4	A122C.1
A122C.2	FG	1	FRP	TG	7' - 0"	3' - 0"	0' - 1 3/4"	F6	FRP	TG		08	4	A122C.2
A122D	F	2	FRP	--	7' - 0"	6' - 0"	0' - 1 3/4"	F2	FRP	--		21		A122D
A122F	F	2	FRP	--	7' - 0"	6' - 0"	0' - 1 3/4"	F2	FRP	--		21	4	A122F
A124.1	F	2	FRP	--	7' - 0"	6' - 0"	0' - 1 3/4"	F2	FRP	--		22	4	A124.1
A124.2	F	2	FRP	--	7' - 0"	6' - 0"	0' - 1 3/4"	F2	FRP	--		21	4	A124.2
A124A	F	2	FRP	--	7' - 0"	6' - 0"	0' - 1 3/4"	F2	FRP	--		21	4	A124A
A126A	F	2	FRP	--	7' - 0"	6' - 0"	0' - 1 3/4"	F2	FRP	--		21	4	A126A
A210	F	1	FRP	--	7' - 0"	3' - 0"	0' - 1 3/4"	F2	FRP	--		13	4	A210
AC103	F	1	WD	--	7' - 0"	3' - 0"	0' - 1 3/4"	F2	HM	--		17		AC103
AC110.1	DG	2	AL	TG	7' - 0"	6' - 0"	0' - 1 3/4"	SF4	AL	TG		32	4	AC110.1
AC110.2	DG	1	FRP	TG	7' - 0"	3' - 0"	0' - 1 3/4"	F4	FRP	TG		29	4	AC110.2
AC110.3	F	1	HM	--	7' - 0"	3' - 0"	0' - 1 3/4"	F2	HM	--		12	4	AC110.3
AC210	DG	2	FRP	TG	7' - 0"	6' - 0"	0' - 1 3/4"	F10	FRP	TG		36	4	AC210
AM120	F	1	WD	--	7' - 0"	3' - 0"	0' - 1 3/4"	F2	HM	--		17		AM120
AM212	F	2	FRP	--	7' - 0"	6' - 0"	0' - 1 3/4"	F2	FRP	--		23	4	AM212
AR104	F	1	WD	--	7' - 0"	3' - 0"	0' - 1 3/4"	SF2	AL	LG		05	5	AR104
AR106	F	1	HM	--	7' - 0"	3' - 0"	0' - 1 3/4"	F2	HM	--		01	4	AR106
AR108	F	1	HM	--	7' - 0"	3' - 0"	0' - 1 3/4"	F2	HM	--		02	4	AR108
AR110	F	1	FRP	--	7' - 0"	3' - 0"	0' - 1 3/4"	F2	FRP	--		07	4	AR110
AR116	F	1	FRP	--	7' - 0"	3' - 0"	0' - 1 3/4"	F2	FRP	--		06	4	AR116
AR122A	F	1	FRP	--	7' - 0"	3' - 0"	0' - 1 3/4"	F2	FRP	--		07	4	AR122A
AR122B	F	1	FRP	--	7' - 0"	3' - 0"	0' - 1 3/4"	F2	FRP	--		07	4	AR122B
AR122C	F	1	FRP	--	7' - 0"	3' - 0"	0' - 1 3/4"	F2	FRP	--		04	4	AR122C
AS122.1	DG	1	AL	IG	7' - 0"	3' - 7 1/2"	0' - 1 3/4"	CW1	AL	IG		30		AS122.1
AS122.2	F	1	FRP	--	7' - 0"	3' - 6"	0' - 1 3/4"	F2	FRP	--		25	4	AS122.2
AS222	F	1	FRP	--	7' - 0"	3' - 6"	0' - 1 3/4"	F2	FRP	--		27	4	AS222
J101.1	F	2	HM	--	7' - 0"	6' - 0"	0' - 1 3/4"	F2	HM	--	45 MIN	34		J101.1
J101.2	F	2	HM	--	7' - 0"	6' - 0"	0' - 1 3/4"	F2	HM	--	45 MIN	34		J101.2
N100.1	F	2	HM	--	7' - 0"	6' - 0"	0' - 1 3/4"	F2	HM	--	45 MIN	34		N100.1
N100.2	F	2	HM	--	7' - 0"	6' - 0"	0' - 1 3/4"	F2	HM	--	45 MIN	34		N100.2
N100.3	DG	1	AL	IG	7' - 0"	3' - 0"	0' - 1 3/4"	CW3	AL	IG		31		N100.3
N100A	F	2	HM	--	7' - 0"	6' - 0"	0' - 1 3/4"	F2	HM	--		20		N100A
N100B	NV	1	WD	TG	7' - 0"	3' - 0"	0' - 1 3/4"	F2	HM	--		15		N100B
NC100	F		HM	--	7' - 0"	6' - 0"	0' - 1 3/4"	F2	HM	--	45 MIN	37		NC100
NM100.1	F	1	HM	--	7' - 0"	3' - 6"	0' - 1 3/4"	F1	HM	--	90 MIN	35		NM100.1
NM100.2	F	1	HM	--	7' - 0"	3' - 6"	0' - 1 3/4"	F1	HM	--	90 MIN	35		NM100.2
NM102	F	1	HM	--	7' - 0"	3' - 0"	0' - 1 3/4"	F1	HM	--	45 MIN	16		NM102
NS100	F	1	FRP	--	7' - 0"	3' - 6"	0' - 1 3/4"	F2	FRP	--	45 MIN	35	4	NS100
NS200	F	1	FRP	--	7' - 0"	3' - 6"	0' - 1 3/4"	F2	FRP	--		29	4	NS200
NV100.1	DG	2	AL	IG	7' - 0"	6' - 0"	0' - 1 3/4"	CW6	AL	IG		33		NV100.1
NV100.2	DG	2	AL	TG	7' - 0"	6' - 0"	0' - 1 3/4"	SF3	AL	TG		03		NV100.2

GENERAL NOTES

A. This Door Schedule(s) is furnished for whatever assistance it may afford the Contractor. Do not consider it as entirely inclusive. Carefully examine the Drawings (especially the Floor Plans) and the Specifications to determine the extent of door and frame quantities required (including interior borrowed lite or sidelite openings). Should any particular door, frame, or interior borrowed lite or sidelite shown on the Drawings be inadvertently omitted from this Schedule, supply same as required for similar openings.

B. The "QTY" column designates the number of leaves in the opening. The "Door Width" column designates the total width of all leaves. In multiple leaf conditions, the leaves shall equally divide the "Door Width" unless noted otherwise; however, the active leaf shall not be less than 3'-0" wide.

C. Door Type "X" denotes a frame with no door such as a borrowed lite, reference Frame Elevations.

D. An asterisk (*) in a dimension denotes a width that varies, reference plans, elevations, details and schedules.

E. Verify locksets with the Owner during submittals.

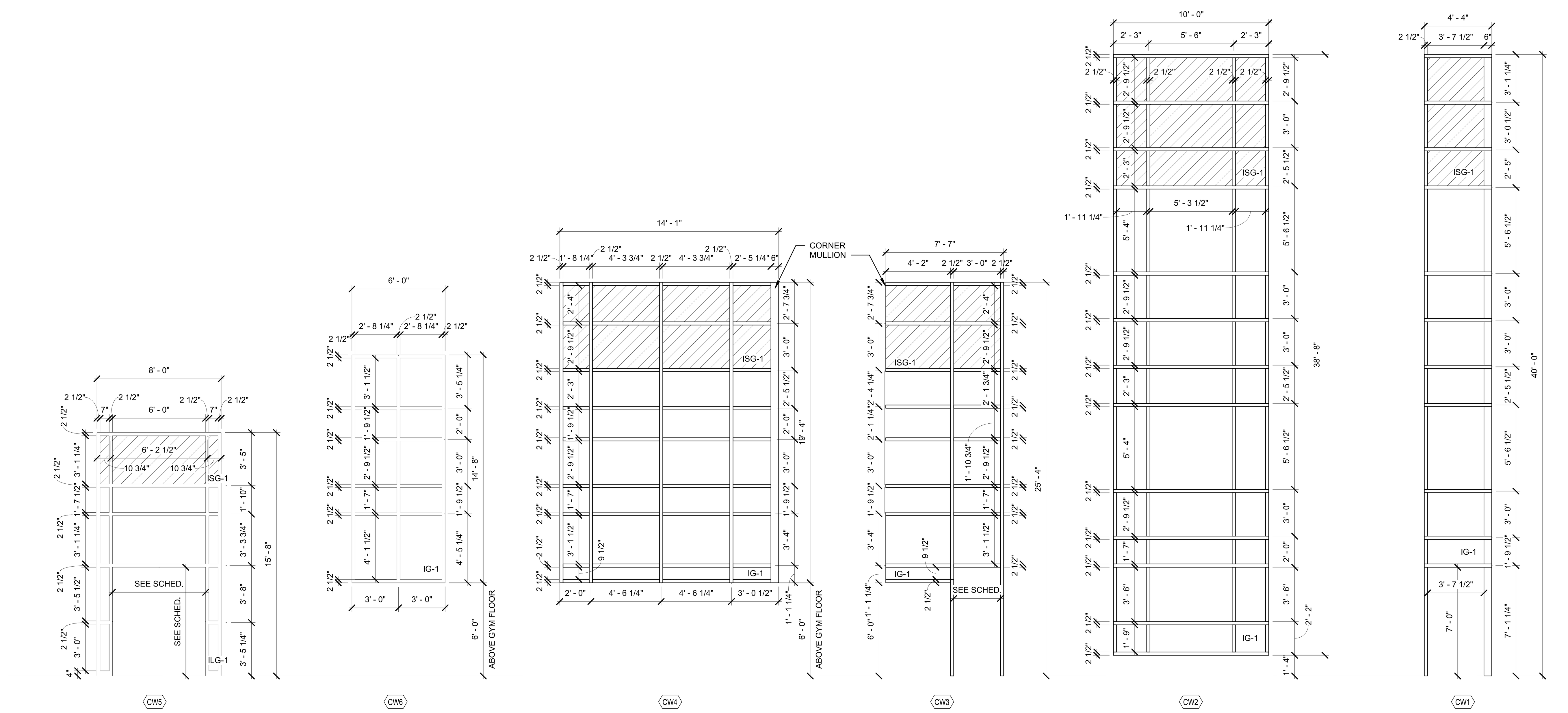
ABBREVIATIONS

- AL Aluminum
- HM Hollow Metal
- ST Steel
- WD Wood
- TG Tempered Glazing
- IG Insulated Glazing
- LG Laminated Glazing
- FG Frosted Glazing
- SP Spandrel Panel
- ISG Insulated Spandrel Glass
- FRP Fiberglass Reinforced Plastic
- OH Overhead Door

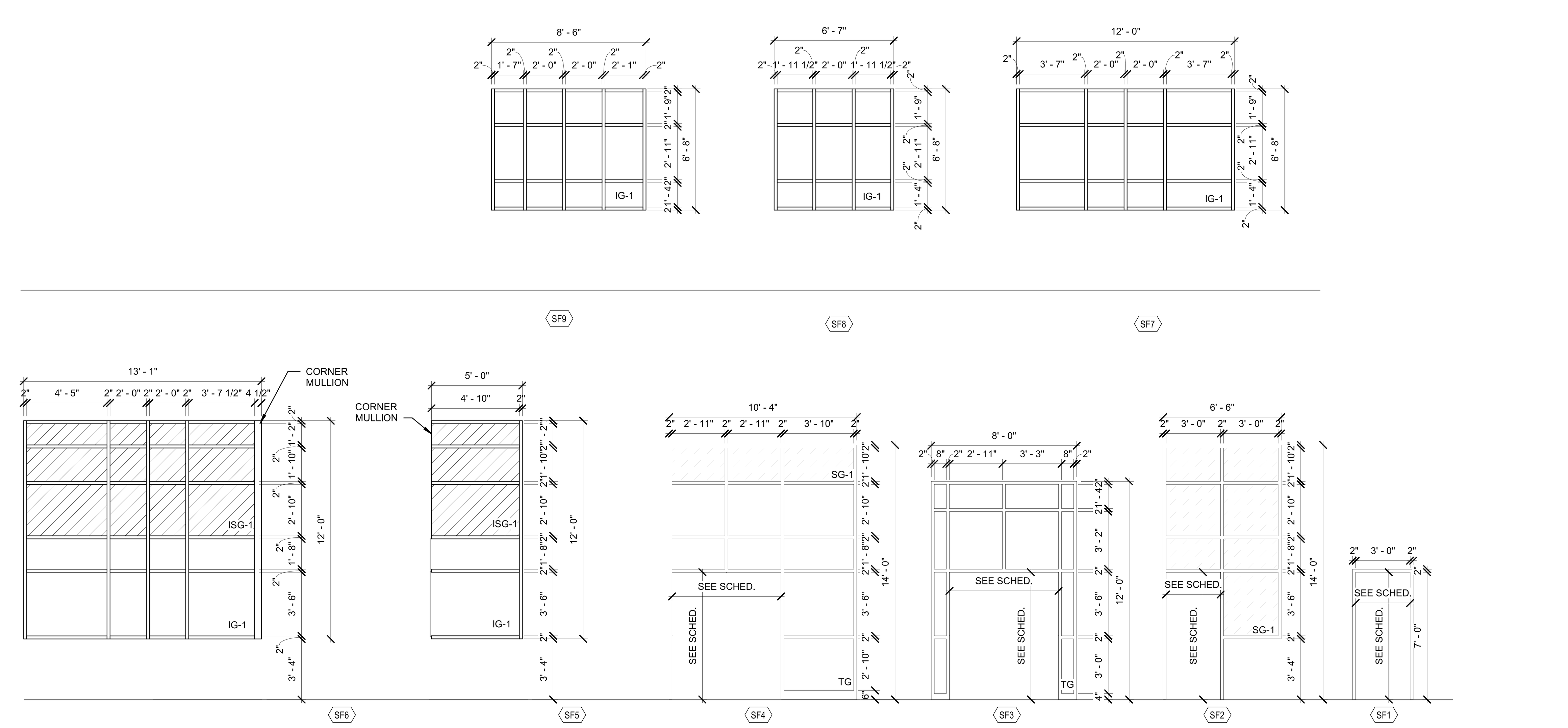
DOOR & FRAME SCHEDULE NOTES

See Door Schedule

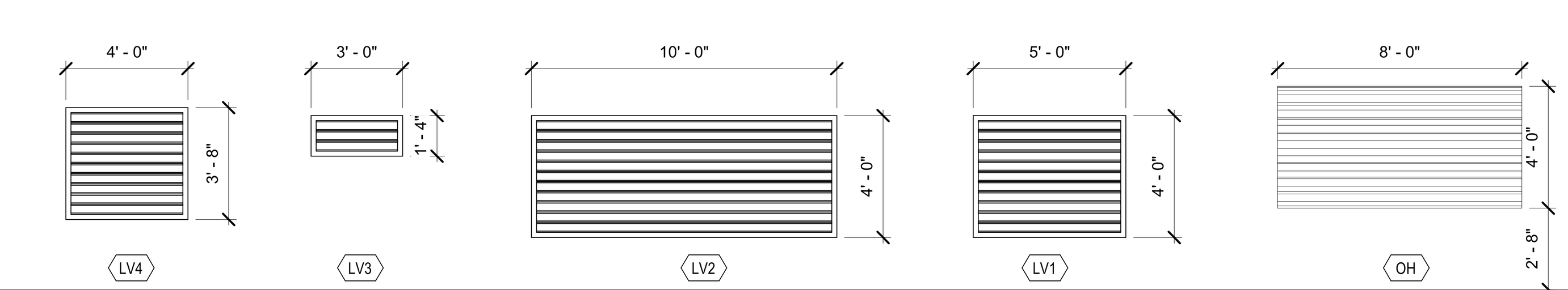
1. Existing door and frame to remain. New hardware only. Field verify all existing door and frame information as required for installation of new hardware.
2. New door/frame in existing masonry wall. Tooth in new masonry into existing as required.
3. Set door in frame to allow for 180° door swing.
4. ~~Provide door seals.~~
5. Laminated glazing w/ opaque innerlayer.



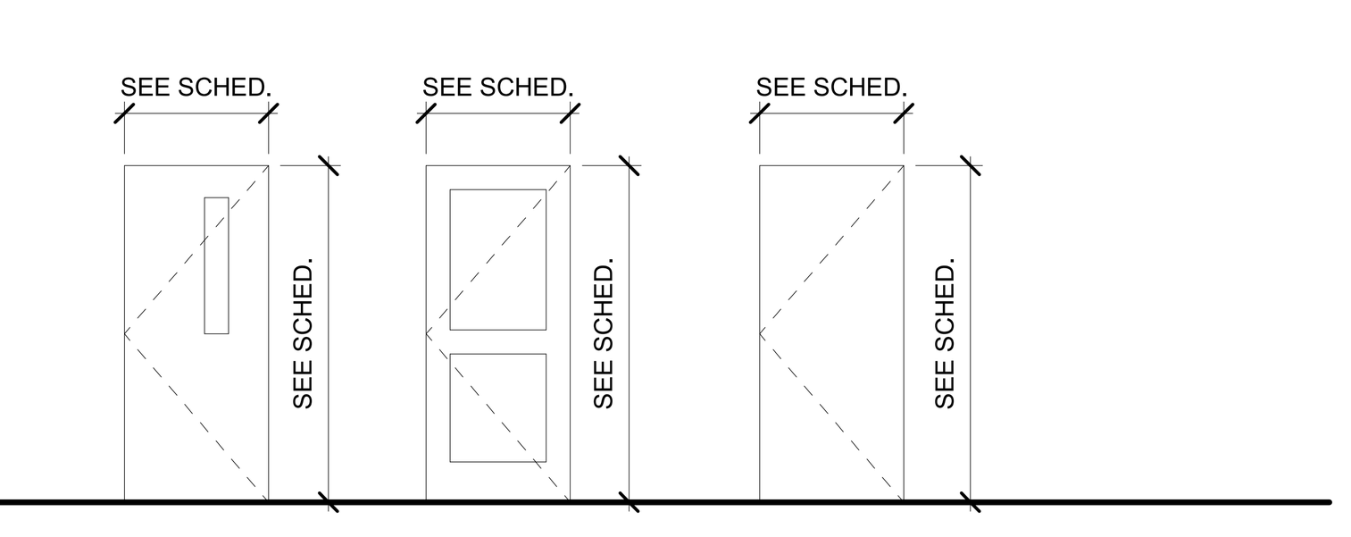
CW FRAME ELEVATIONS
1/4" = 1'-0"



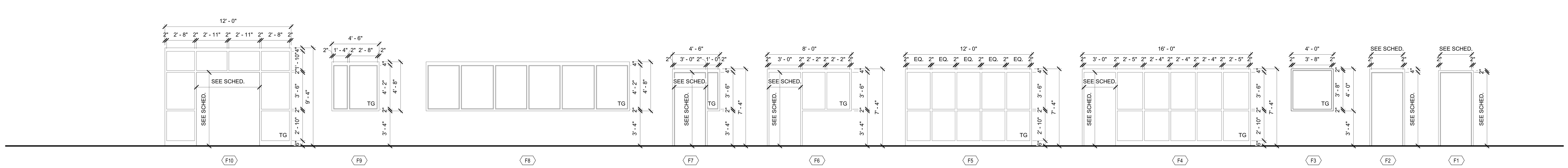
SF FRAME ELEVATIONS
1/4" = 1'-0"



LOUVER AND OVERHEAD DOOR ELEVATION
1/4" = 1'-0"



5.4.602 - DOOR PANEL ELEVATIONS
1/4" = 1'-0"



5.4.603 - DOOR FRAME ELEVATIONS
1/4" = 1'-0"

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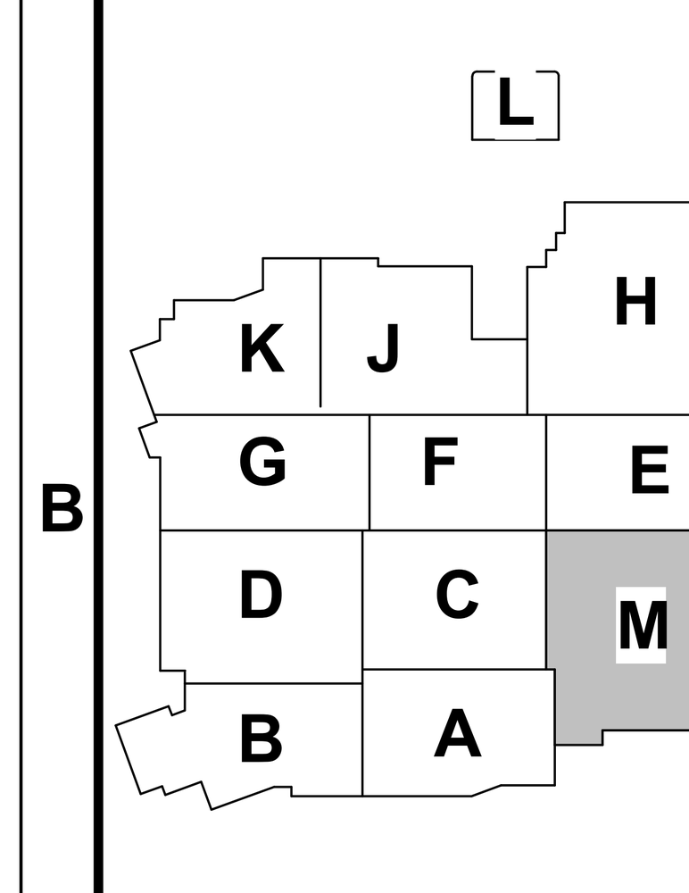


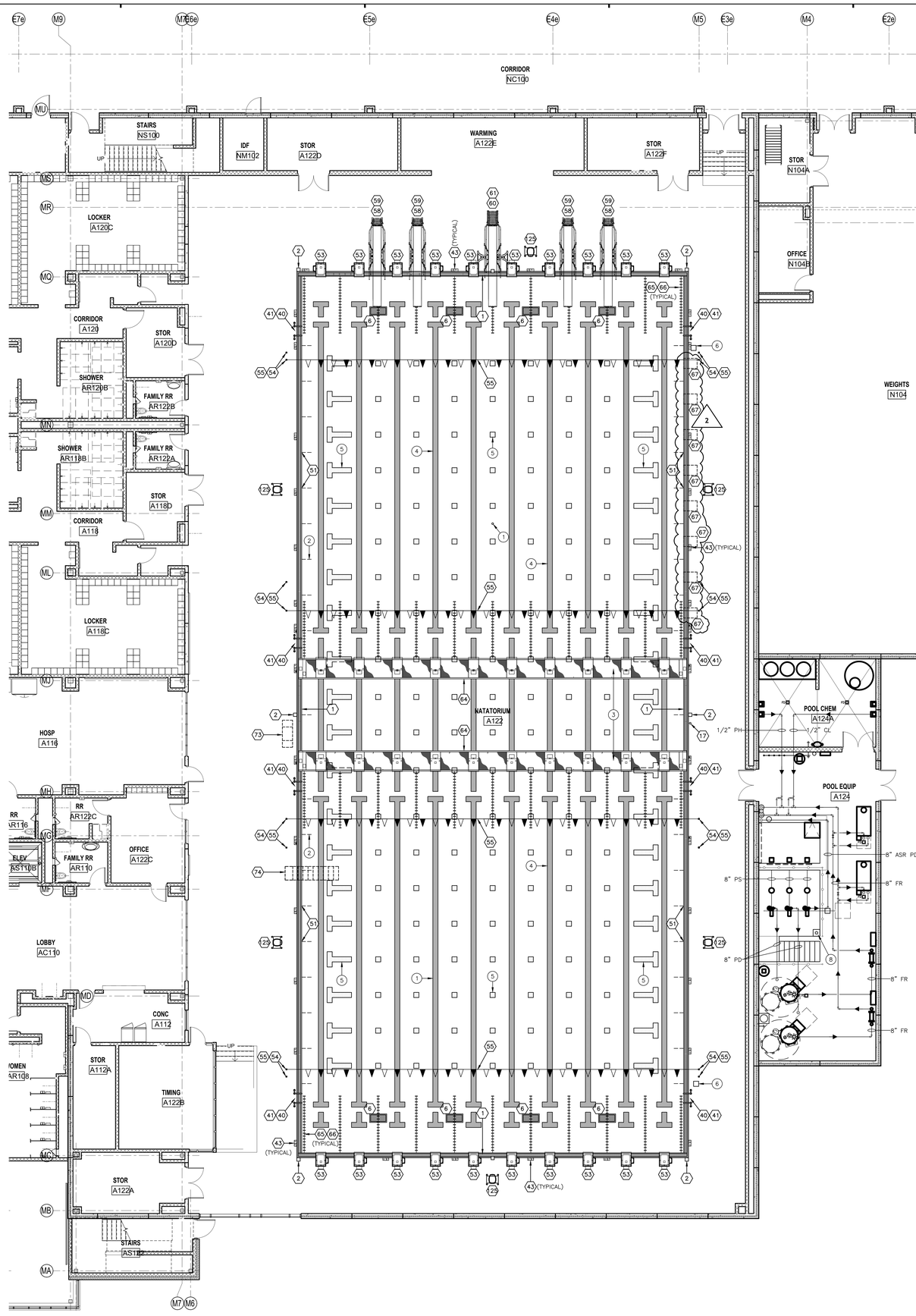
KEY PLAN

MSD OF LAWRENCE TOWNSHIP

LAWRENCE CENTRAL HIGH SCHOOL POOL

DOOR AND FRAME SCHEDULE

A-600.1



GENERAL NOTES:

1. ALL AQUATIC WORK SHALL CONFORM TO THE LATEST INDIANA SWIMMING POOL CODE, INDIANA STATE BOARD OF HEALTH RULES, ACCESSIBILITY GUIDELINES FOR SWIMMING POOLS, NSF AND FINA RULES WHERE REQUIRED.
2. ALL AQUATIC COMPONENTS, DRAINS, FITTINGS, STRUCTURES AND EQUIPMENT FEATURES SHALL BE INSTALLED PER THE MANUFACTURERS RECOMMENDATIONS AND SHALL BEAR ALL NECESSARY LABELS AS REQUIRED BY FEDERAL LAW AND THE INDIANA SWIMMING POOL CODE.
3. ALL WORK SHOWN ON THIS DRAWING IS BY THE AQUATIC CONTRACTOR (AQC) UNLESS OTHERWISE NOTED.
4. REFER TO (AQS) STRUCTURAL DRAWINGS FOR NEW STRUCTURAL CONSTRUCTION WORK ASSOCIATED WITH THE POOL FLOOR WALLS AND RELATED MECHANICAL SYSTEMS WORK.
5. REFER TO CIVIL, ARCHITECTURAL, LANDSCAPING, MECHANICAL AND ELECTRICAL DRAWINGS FOR RELATED WORK ASSOCIATED WITH THE CONSTRUCTION OF THE POOL.
6. AQC IS RESPONSIBLE FOR ALL CONSTRUCTION, EQUIPMENT, PIPING AND CONTROL WIRING OF RELATED POOL EQUIPMENT UNLESS OTHERWISE NOTED
7. NOTE: THE INTEGRAL STAINLESS STEEL GUTTER TUBE RETURN SYSTEM WILL NOT HAVE INLETS FOR THIS INSTALLATION. IT WILL BE FED FROM THE FILTERED RETURN SYSTEM FOR JET WASH FITTINGS ONLY. (THE POOL WILL HAVE A BOTTOM SUPPLY SYSTEM AS DRAWN.) SHOULD THE UNGROUND DISTRIBUTION SYSTEM EVER FAIL IT COULD BE VALVED OFF AND ABANDONED. THE FILTERED RETURN MAIN PIPE COULD THEN BE CONNECTED TO THE GUTTERS RETURN TUBE AND FITTED WITH STANDARD INLET FITTINGS.
8. ALL STAINLESS STEEL HAND RAILINGS ARE TO BE CONSTRUCTED PER THE AMERICAN WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES. 1.5" DIAMETER HANDRAILS WILL BE USED FOR ALL POOL ACCESS AREAS AND EQUIPMENT UNLESS OTHERWISE ALLOWED BY ADA REQUIREMENTS.
9. THERE ARE REDUNDANT CHEMICAL PIPING, MAKE-UP WATER PIPING AND HEATING WATER PIPING SYSTEMS FOR THE FILTERS. THIS WILL ALLOW FOR CONTINUOUS FILTRATION OPERATION SHOULD A FILTER NEED BE SHUT DOWN FOR AN EXTENDED PERIOD OF TIME FOR MAINTENANCE OR SERVICE.
10. REFER TO SHEET "AQ", "AQT" AND "AQS" DRAWINGS FOR ADDITIONAL INFORMATION RELATING TO THE WORK SHOWN ON THIS DRAWING.
11. REFER TO SHEETS AQ500/AQ501 FOR PIPING DIAGRAM FOR FILTER AND CHEMICAL EQUIPMENT PIPING DETAILS FOR ALL VALVE, FLOW METERS, SITE GLASS, AND DRAIN VALVE LOCATIONS ETC.
12. NOT ALL PIPING TO EQUIPMENT IS SHOWN ON THIS PLAN, REFER TO AQ500 FOR PIPING, RELATED VALVES AND DEVICE CONNECTIONS TO EQUIPMENT. PROVIDE INDIVIDUAL PIPE DROPS FROM OVERHEAD PIPING TO EACH PIECE OF EQUIPMENT AS SHOWN ON DIAGRAMS AND DETAILS.
13. REFER TO SHEET AQ300 FOR EQUIPMENT ID'S AND LOCATION IN POOL EQUIPMENT ROOM M124 AND CHEMICAL ROOM M124A.

PLAN NOTES:

1. 2" INLET FITTING FROM FR BOTTOM SUPPLY SYSTEM. TYPICAL OF 77, REFER TO SHEET AQ201 FOR LOCATIONS.
2. 25 YARD (ALTERNATE LOCATION) RACING LINE LOCATION. TYPICAL 19 LOCATIONS.
3. 4" WIDE 1" CERAMIC TILE @ 4' WITH SAFETY LINE. PROVIDE 4" BREAK WITH WHITE TILE AT ALL RACING LINES NOT SHOWN. REFER TO SHEET AQ201 FOR LOCATION.
4. RACING LINES TO BE BLACK IN COLOR TYPICAL. REFER TO ARCHITECTURAL DRAWINGS.
5. CROSS LANES, SAFETY LINES AND TILE MARKERS TO BE GRAY IN COLOR TYPICAL. REFER TO ARCHITECTURAL DRAWINGS.
6. GUTTER WASH ACCESS BOX FOR ISOLATION / SHUT-OFF VALVE.
7. (2) 8" FR DOWN, REFER TO AQ200 FOR CONTINUATION. 8" ASR PD CONNECTED TO (2) 8" FR'S, REFER TO DETAIL 01/AQ500.
8. SUMP PUMP IN PIT BY DIV. 22 CONTRACTOR.

01 POOL DECK PLAN LAWRENCE CENTRAL

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

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Project Date 12.01.2021
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QC Comments due 11/10/21

#	Revision	Date
2	ADDENDUM #2	12/17/21

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JAMES J. KACIUS REGISTERED No. AR00860009 STATE OF INDIANA ARCHITECT

JAMES J. KACIUS

Aquatic & Recreation Design
1909 WEST PEOGA LAKE DRIVE
TRAFALGAR, INDIANA 46181
PHONE: (317) 933-5951

DRAWN BY: DAN SMITH
CHECKED BY: MARV TRIETSCH
ARD PROJECT #:
DATE:

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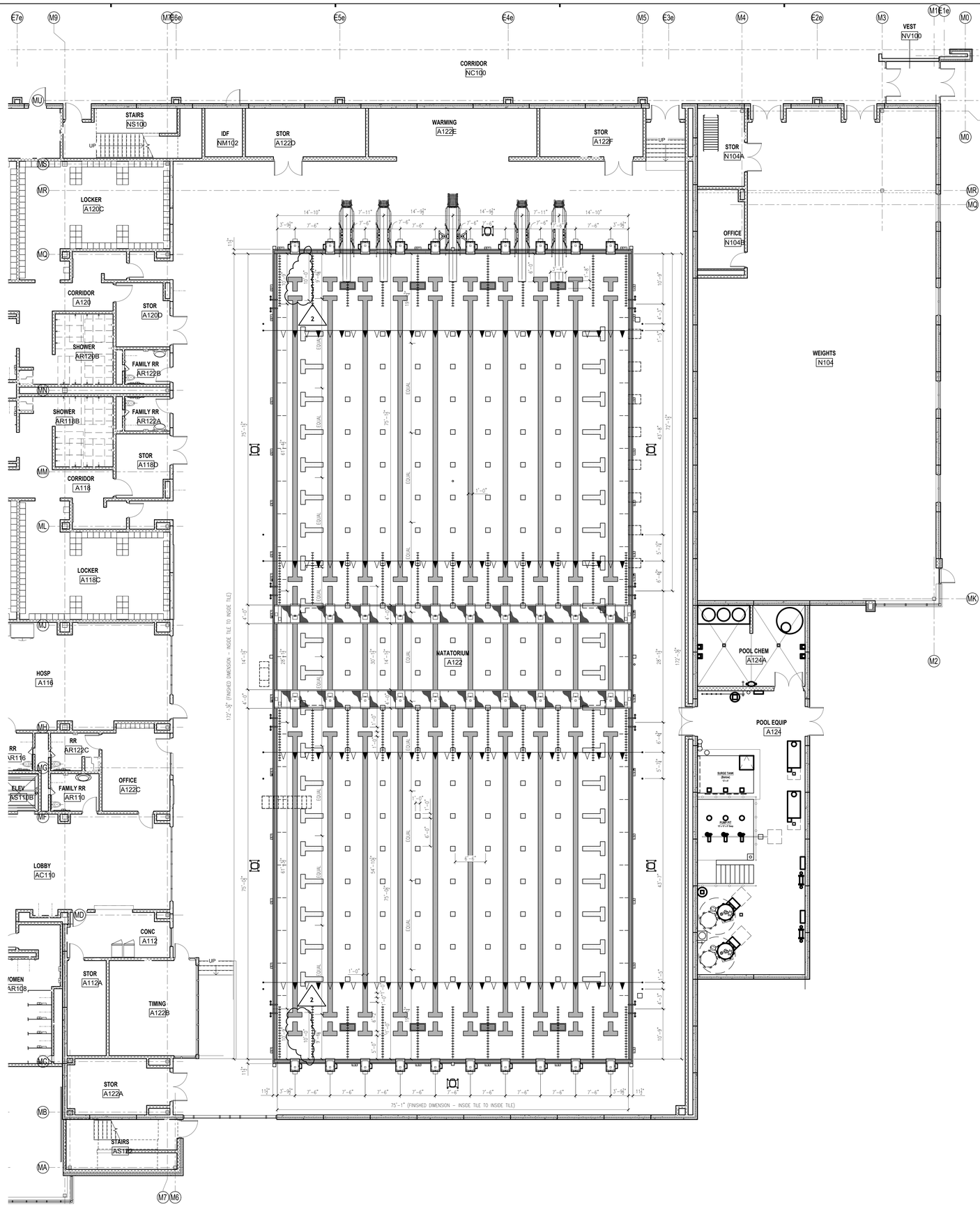
KEY PLAN

MSD OF LAWRENCE TOWNSHIP

ADDITIONS AND RENOVATIONS TO LAWRENCE CENTRAL HIGH SCHOOL

POOL DECK PLAN

AQ200



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01 POOL DIMENSION PLAN
LAWRENCE CENTRAL

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

GENERAL NOTES:

1. ALL AQUATIC WORK SHALL CONFORM TO THE LATEST INDIANA SWIMMING POOL CODE, INDIANA STATE BOARD OF HEALTH RULES, ACCESSIBILITY GUIDELINES FOR SWIMMING POOLS, NSF AND FINA RULES WHERE REQUIRED.
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8. ALL STAINLESS STEEL HAND RAILINGS ARE TO BE CONSTRUCTED PER THE AMERICAN WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES. 1.5" DIAMETER HANDRAILS WILL BE USED FOR ALL POOL ACCESS AREAS AND EQUIPMENT UNLESS OTHERWISE ALLOWED BY ADA REQUIREMENTS.
9. THERE ARE REDUNDANT CHEMICAL PIPING, MAKE-UP WATER PIPING AND HEATING WATER PIPING SYSTEMS FOR THE FILTERS. THIS WILL ALLOW FOR CONTINUOUS FILTRATION OPERATION SHOULD A FILTER NEED BE SHUT DOWN FOR AN EXTENDED PERIOD OF TIME FOR MAINTENANCE OR SERVICE.
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CONSTRUCTION SET

JAMES J. KACIUS REGISTERED No. AR00860009 STATE OF INDIANA ARCHITECT
4/2/2021

JAMES J. KACIUS

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CHECKED BY: MARV TRIETSCH
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DATE:

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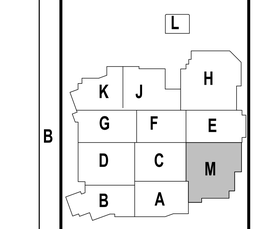


KEY PLAN

MSD OF LAWRENCE TOWNSHIP

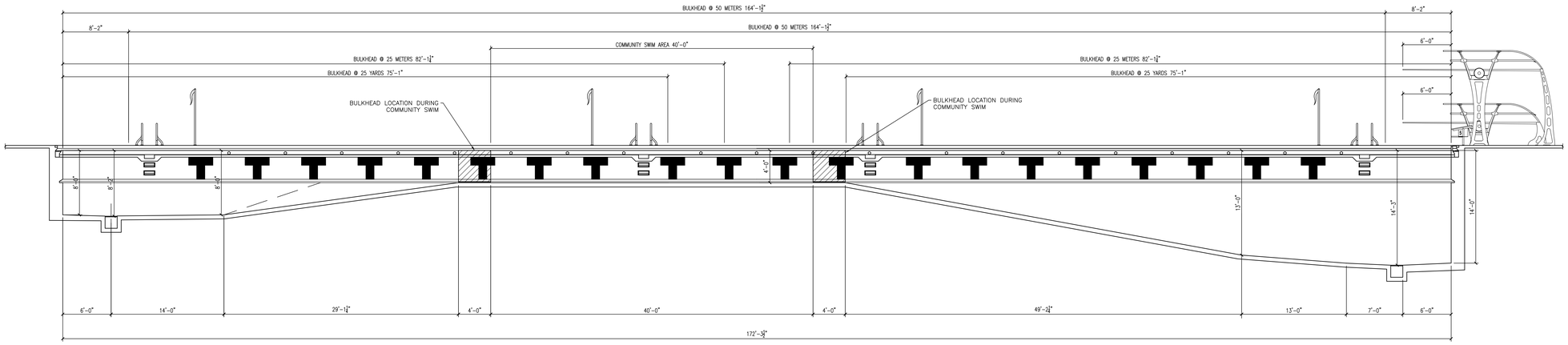
ADDITIONS AND RENOVATIONS TO LAWRENCE CENTRAL HIGH SCHOOL

POOL DIMENSION PLAN

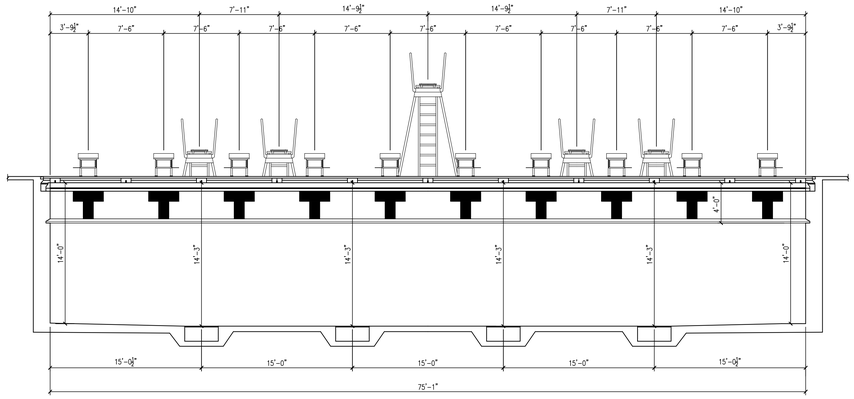
AQ202

GENERAL NOTES:

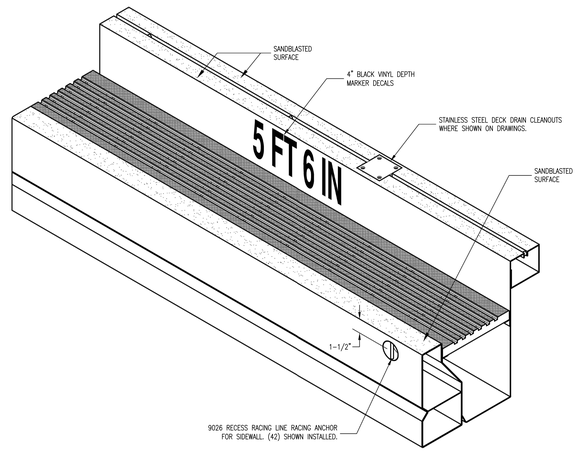
1. REFER TO STRUCTURAL DRAWINGS FOR POOL WALL AND FLOOR CONSTRUCTION DETAILS.



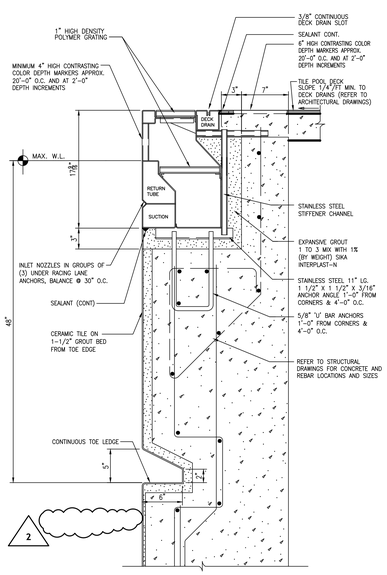
A LONGITUDUNAL POOL SECTION
SCALE: 1/8" = 1'-0"



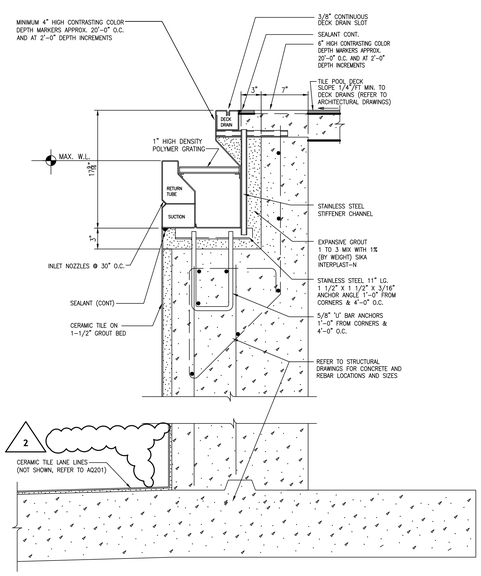
B TRANSVERSE DEEP END POOL SECTION
SCALE: 1/8" = 1'-0"



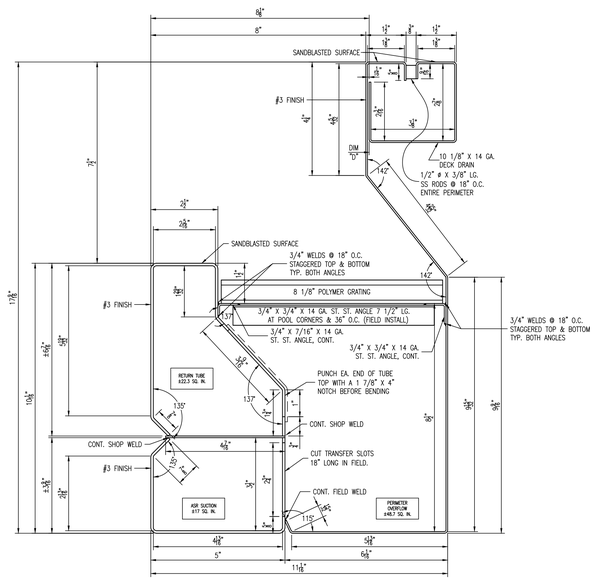
04 GUTTER DECK DRAIN ISOMETRIC
NO SCALE



01 TYPICAL END WALL SECTION
SCALE: 1" = 1'-0"



02 TYPICAL SIDE WALL SECTION
SCALE: 1" = 1'-0"



03 GUTTER FABRICATION DETAIL (SIDEWALL VIEW)
SCALE: NO SCALE

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JAMES J. KACIUS

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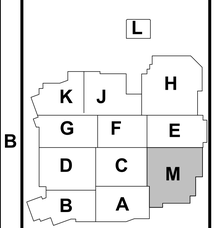


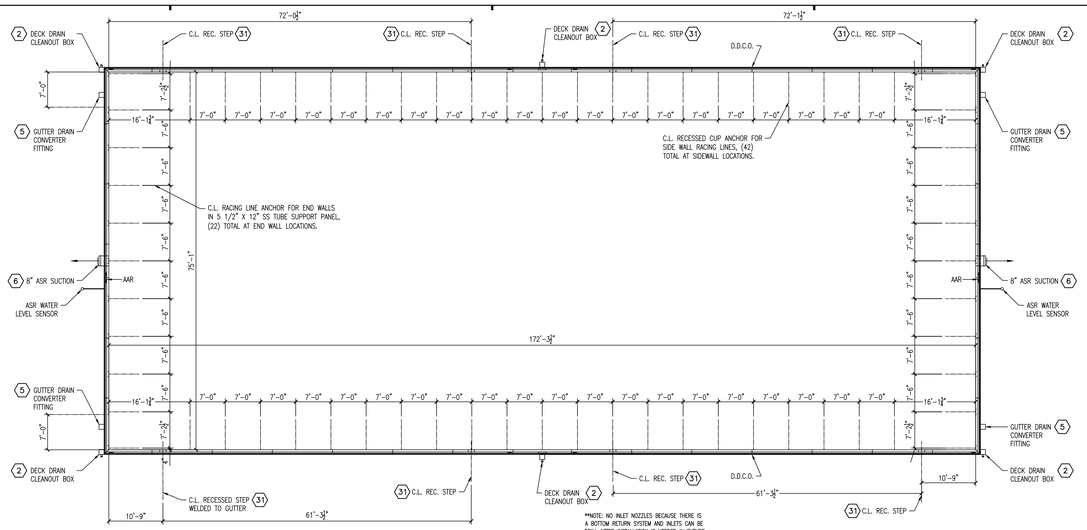
KEY PLAN

MSD OF LAWRENCE TOWNSHIP

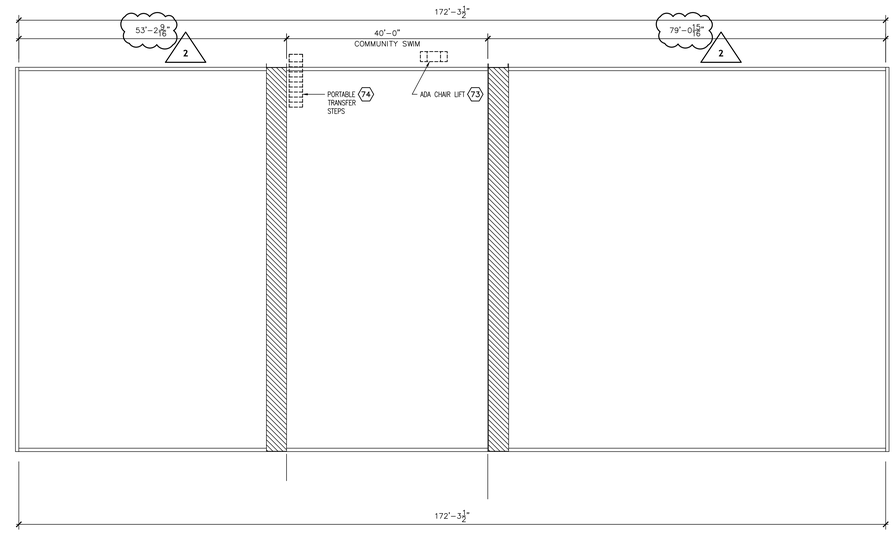
ADDITIONS AND RENOVATIONS TO LAWRENCE CENTRAL HIGH SCHOOL

POOL SECTIONS & GUTTER DETAILS

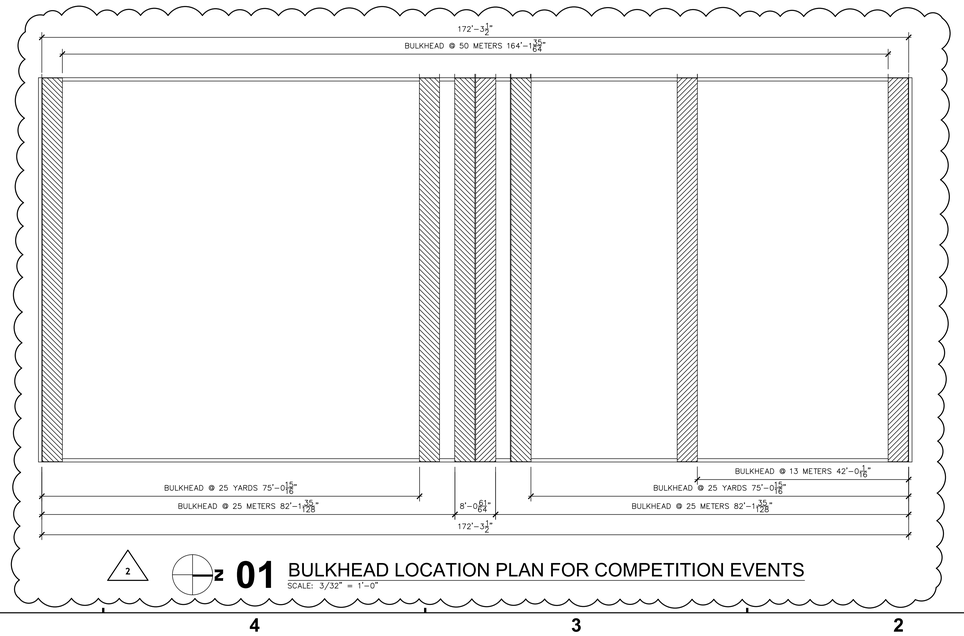
AQ400



03 POOL GUTTER ANCHOR LOCATION PLAN
SCALE: 3/32" = 1'-0"



02 COMMUNITY SWIM BULKHEAD LOCATION AND ADA ACCESS PLAN
SCALE: 3/32" = 1'-0"



01 BULKHEAD LOCATION PLAN FOR COMPETITION EVENTS
SCALE: 3/32" = 1'-0"

GENERAL NOTES:

1. ALL AQUATIC WORK SHALL CONFORM TO THE LATEST INDIANA SWIMMING POOL CODE, INDIANA STATE BOARD OF HEALTH RULES, ACCESSIBILITY GUIDELINES FOR SWIMMING POOLS, NSF AND FINA RULES WHERE REQUIRED.
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8. ALL STAINLESS STEEL HAND RAILINGS ARE TO BE CONSTRUCTED PER THE AMERICAN WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES. 1.5" DIAMETER HANDRAILS WILL BE USED FOR ALL POOL ACCESS AREAS AND EQUIPMENT UNLESS OTHERWISE ALLOWED BY ADA REQUIREMENTS.
9. THERE ARE REDUNDANT CHEMICAL PIPING, MAKE-UP WATER PIPING AND HEATING WATER PIPING SYSTEMS FOR THE FILTERS. THIS WILL ALLOW FOR CONTINUOUS FILTRATION OPERATION SHOULD A FILTER NEED BE SHUT DOWN FOR AN EXTENDED PERIOD OF TIME FOR MAINTENANCE OR SERVICE.
10. REFER TO SHEET "AQ", "AQ1" AND "AQS" DRAWINGS FOR ADDITIONAL INFORMATION RELATING TO THE WORK SHOWN ON THIS DRAWING.
11. REFER TO SHEETS AQ500/AQ501 FOR PIPING DIAGRAM FOR FILTER AND CHEMICAL EQUIPMENT PIPING DETAILS FOR ALL VALVE, FLOW METERS, SITE GLASS, AND DRAIN VALVE LOCATIONS ETC.

BULKHEAD GENERAL NOTES:

1. ALL EXPOSED SURFACES OF BULKHEAD TO BE FABRICATED FROM LOW CARBON TYPE 316L SS WITH #3 FINISH. INTERNAL FRAME SHALL BE OF LOW CARBON TYPE 304 SS WITH 2B FINISH.
2. BULKHEAD IS EQUIPPED WITH PVC FIXED BUOYANCY FLOATS & PVC VARIABLE AIR CHAMBERS, DESIGNED TO REDUCE THE BULKHEAD'S WEIGHT IN WATER.
3. ALL FASTENERS SHALL BE STAINLESS STEEL.
4. BULKHEAD IS CONSTRUCTED WITH A 7/8" CAMBER AT CENTER TO OFFSET BULKHEAD'S DEAD WEIGHT.
5. BULKHEAD IS DESIGNED FOR A VERTICAL LIVE LOAD OF 50#/FT WITH A MAXIMUM DEFLECTION OF 1/2" IN THE WATER.
6. AIR COMPRESSOR IS GRAINGER CAT. #1NNE5, .75 HP, 115V, 60 HZ, 11.5A, 3.2 CFM @ 90 PSI, WITH 3 GALLON ASME TANK & OIL FREE PUMP.
7. THE BULKHEAD'S DEAD WEIGHT= ±9,825#. WEIGHT IN WATER VARIES (#) TO ±1,394#. WEIGHT PER WHEEL VARIES (#)-±174# (IN WATER).

MOVEMENT OF BULKHEAD:

1. REMOVE ALL RACING LINES.
2. REMOVE ALL ANCHOR PINS.
3. CLOSE ALL 1/2" BALL VALVES. (1) AT EACH END OF BULKHEAD.
4. CONNECT AIR HOSE TO AIR COCK AT EITHER END OF BULKHEAD.
5. PLUG IN AIR COMPRESSOR.
6. OPEN (1) PVC BALL VALVE & ACTIVATE COMPRESSOR. THIS WILL ALLOW AIR TO INFLATE ONE OF THE (2) CHAMBERS.
7. WHEN THIS END OF BULKHEAD HAS BEEN LIGHTENED TO THE DESIRED AMOUNT, DE-ACTIVATE COMPRESSOR, CLOSE THE OPEN VALVE & DISCONNECT AIR HOSE. ATTACH AIR HOSE TO AIR COCK AT OTHER END OF BULKHEAD. PLUG IN COMPRESSOR IF NECESSARY. OPEN THE CLOSED VALVE & ACTIVATE COMPRESSOR. THIS WILL ALLOW AIR TO INFLATE THE OTHER CHAMBER.
8. WHEN BULKHEAD HAS BEEN LIGHTENED THE DESIRED AMOUNT, CUT OFF COMPRESSOR, CLOSE THE VALVE & DISCONNECT THE AIR HOSE.
9. CONNECT THE TOW CABLES TO THE BULKHEAD BY HOOKING THE STAINLESS STEEL HOOK UNDER THE WHEEL COVER. THE HARNESS MAY BE USED IF REQUIRED TO HELP GET THE BULKHEAD MOVING.
10. WHEN THE NEW LOCATION HAS BEEN REACHED, INSTALL THE ANCHOR PINS AND OPEN ALL BALL VALVES.

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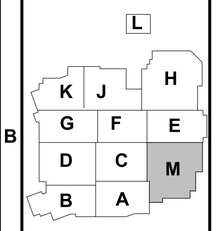


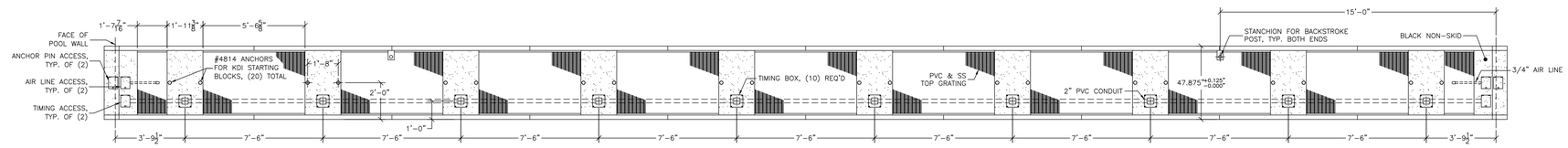
KEY PLAN

MSD OF LAWRENCE TOWNSHIP

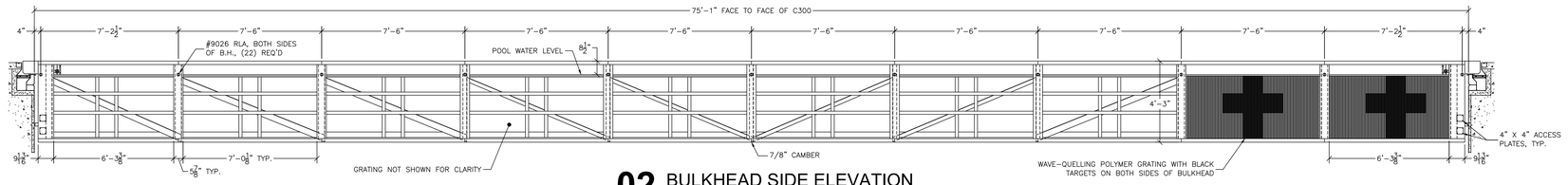
ADDITIONS AND RENOVATIONS TO LAWRENCE CENTRAL HIGH SCHOOL

POOL BULKHEAD & GUTTER ANCHOR LOCATION PLANS

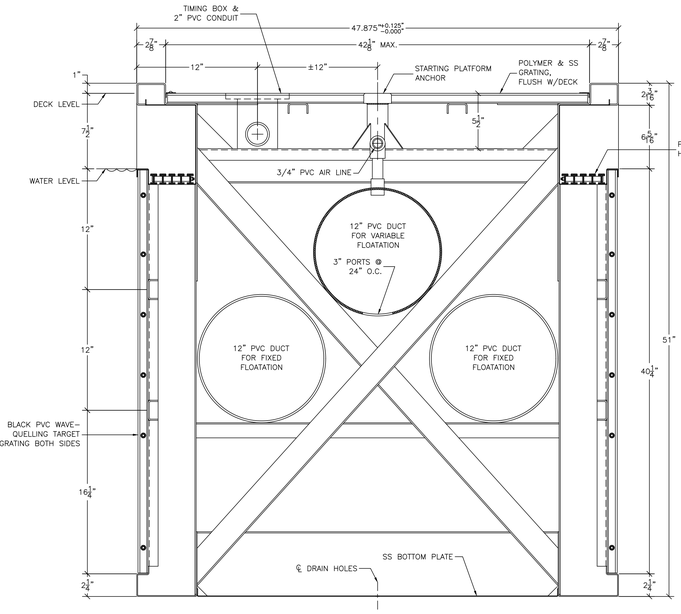
AQ401



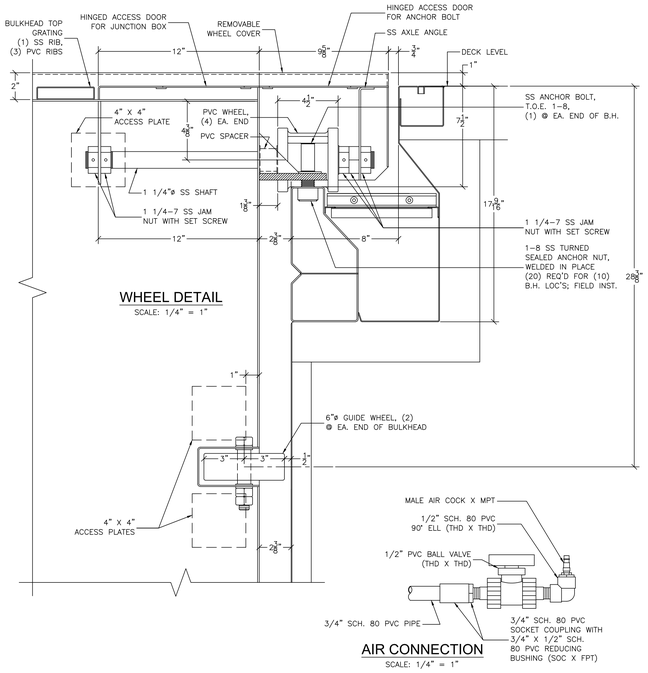
01 BULKHEAD PLAN VIEW
SCALE: 3/8" = 1'-0"



02 BULKHEAD SIDE ELEVATION
SCALE: 3/8" = 1'-0"



03 BULKHEAD SECTION
SCALE: 1/8" = 1'-0"



04 WHEEL/GUTTER DETAIL SECTION
SCALE: 1/4" = 1'-0"

NOTES

1. EXPOSED SURFACES OF BULKHEAD ABOVE WATER TO BE COATED WITH PROTECT-A-CLEAR AND CLAD WITH WHITE HIGH DENSITY POLYETHYLENE. INTERNAL FRAME SHALL BE OF LOW CARBON ST. ST. WITH 2B FINISH.
2. BULKHEAD IS EQUIPPED WITH FIXED & VARIABLE AIR CHAMBERS, DESIGNED TO REDUCE THE BULKHEAD'S WEIGHT IN WATER.
3. ALL FASTENERS SHALL BE STAINLESS STEEL.
4. BULKHEAD IS CONSTRUCTED WITH A CAMBER AT CENTER TO OFFSET BULKHEAD'S DEAD WEIGHT.
5. BULKHEAD IS DESIGNED FOR A VERTICAL LIVE LOAD OF 50#/FT² WITH A MAXIMUM DEFLECTION OF 1/2" IN THE WATER. RACING LINE ANCHORS SUPPORT A PULLOUT LOAD OF 400# EA.
6. THE BULKHEAD'S DEAD WEIGHT= ±12,000#. WEIGHT IN WATER VARIES 0# TO ±2,000#. WEIGHT PER SKID VARIES 0# - ±1,000# (IN WATER).
7. AIR COMPRESSOR IS GRAINGER CAT. #1NNE5, .75 HP, 115V, 60 HZ, 11.5A, 3.2 CFM @ 90 PSI, WITH 3 GALLON ASME TANK & OIL FREE PUMP.
8. BULKHEAD WARRANTED AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP.

INSTRUCTIONS TO MOVE BULKHEAD

1. REMOVE ALL RACING LINES & STARTING PLATFORMS.
2. REMOVE ALL ANCHOR PINS.
3. CLOSE 1/2" BALL VALVES AT EA. END OF BULKHEAD.
4. CONNECT AIR HOSE TO AIR COCK AT EITHER END OF BULKHEAD.
5. PLUG IN AIR COMPRESSOR.
6. OPEN PVC BALL VALVE AT COMPRESSOR END & ACTIVATE COMPRESSOR. THIS WILL ALLOW AIR TO INFLATE ALL OF THE VARIABLE CHAMBERS.
7. WHEN BULKHEAD HAS BEEN LIGHTENED THE DESIRED AMOUNT, CUT OFF COMPRESSOR, CLOSE THE VALVE, & DISCONNECT THE AIR HOSE.
8. BULKHEAD TO BE MOVED INTO POSITION BY USING INSTALLED GUARD RAILS.
9. WHEN THE NEW LOCATION HAS BEEN REACHED, INSTALL THE ANCHOR PINS AND OPEN BALL VALVE. RE-ATTACH LINES & PLATFORMS AS REQ'D.

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Project Date 12.01.2021
Produced MARV TRIETSCH

#	Revision	Date
2	ADDENDUM #2	12/17/21

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JAMES J. KACIUS REGISTERED No. AR00860009 STATE OF INDIANA ARCHITECT

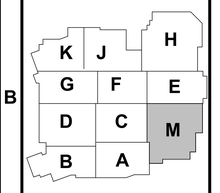
JAMES J. KACIUS

Aquatic & Recreation Design
1909 WEST PEOGA LAKE DRIVE
TRAFALGAR, INDIANA 46181
PHONE: (317) 933-5951

DRAWN BY: DAN SMITH
CHECKED BY: MARV TRIETSCH
ARD PROJECT #:
DATE:

WWW.AQUATICRECREATIONDESIGN.COM

7300 E 56th St.
Lawrence, IN 46226



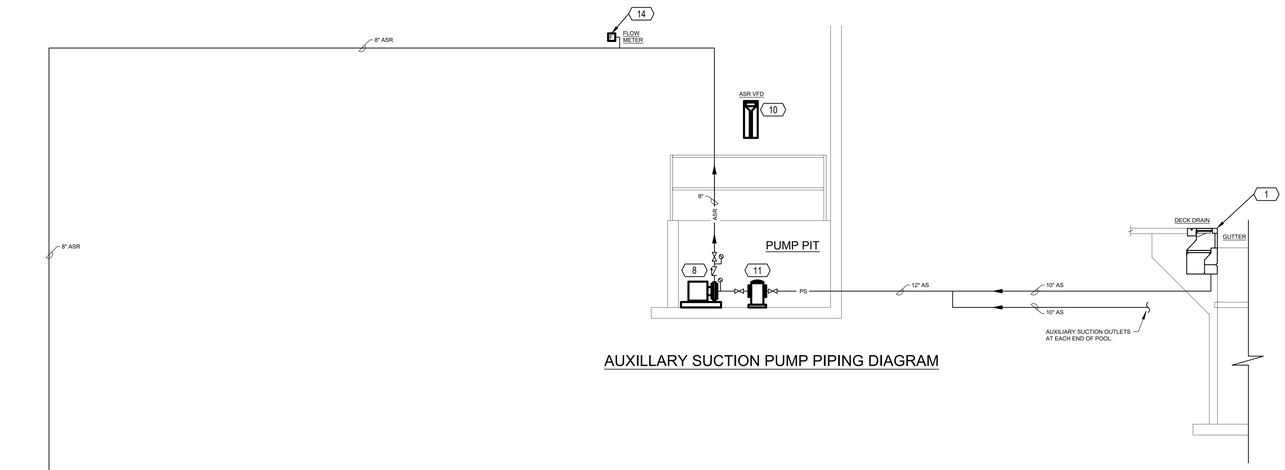
KEY PLAN

MSD OF LAWRENCE TOWNSHIP

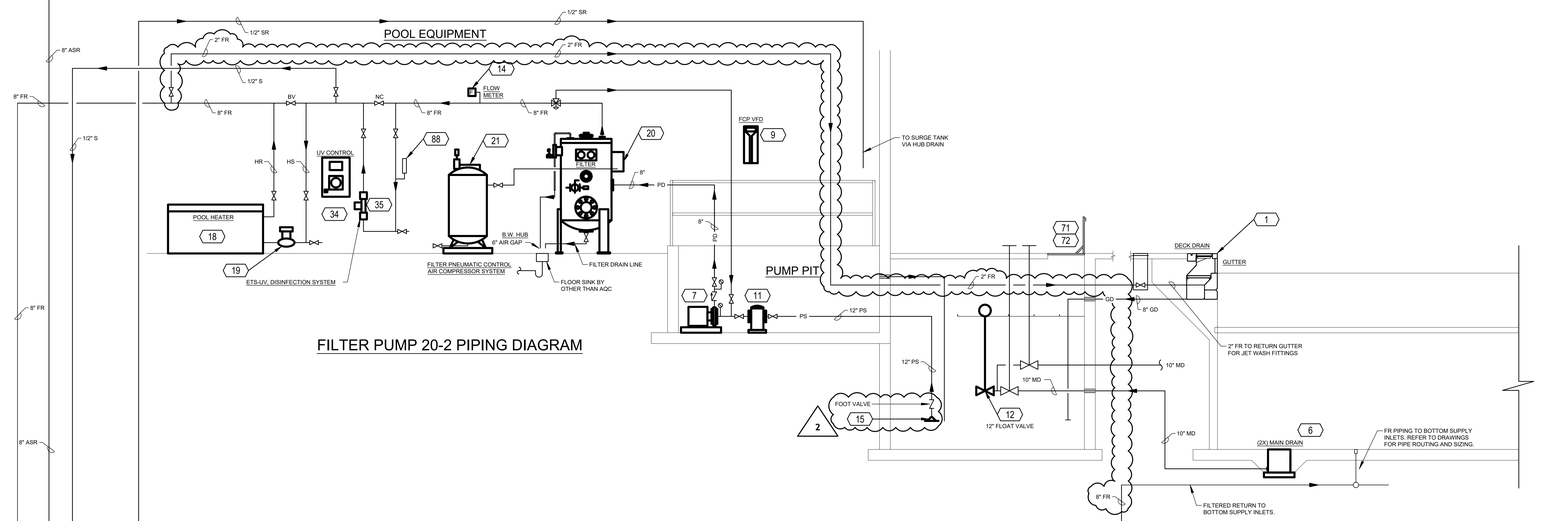
ADDITIONS AND RENOVATIONS TO LAWRENCE CENTRAL HIGH SCHOOL

POOL BULKHEAD SECTIONS

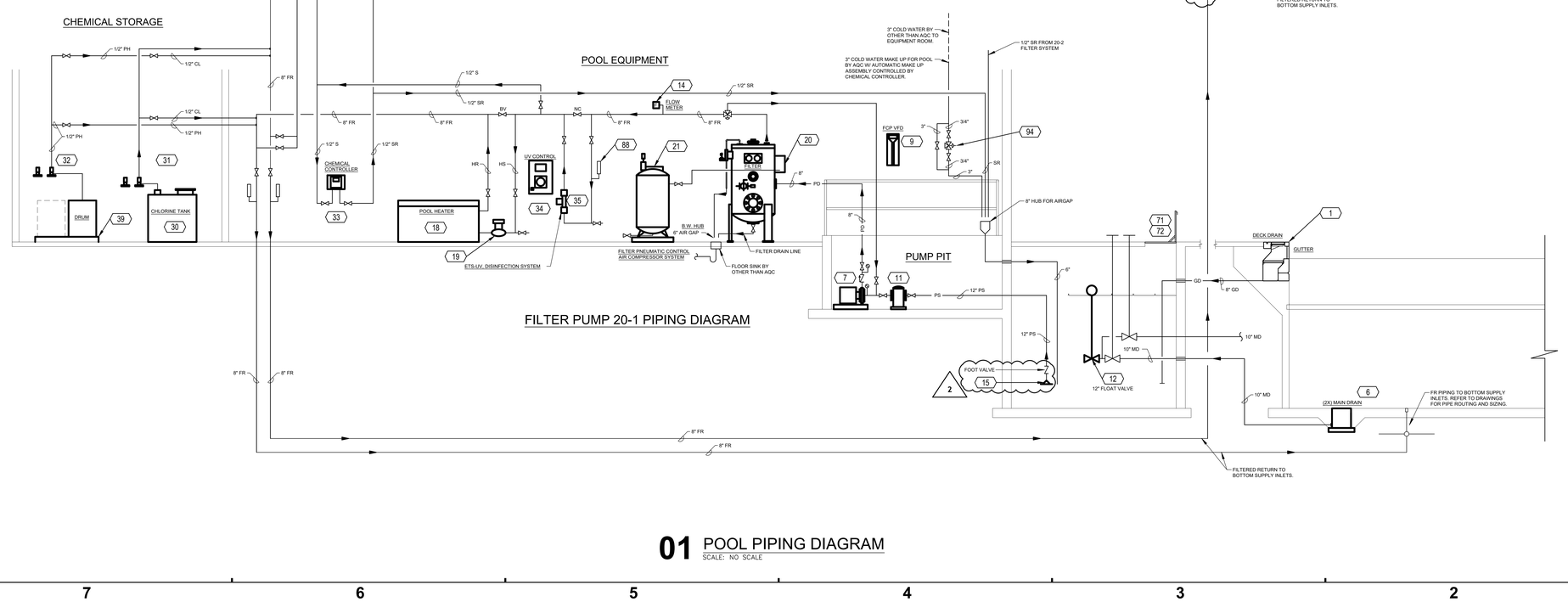
AQ402



AUXILLARY SUCTION PUMP PIPING DIAGRAM



FILTER PUMP 20-2 PIPING DIAGRAM



FILTER PUMP 20-1 PIPING DIAGRAM

01 POOL PIPING DIAGRAM

SCALE: NO SCALE

GENERAL NOTES:

1. ALL AQUATIC WORK SHALL CONFORM TO THE LATEST INDIANA SWIMMING POOL CODE, INDIANA STATE BOARD OF HEALTH RULES, ACCESSIBILITY GUIDELINES FOR SWIMMING POOLS, NSF AND FINA RULES WHERE REQUIRED.
2. ALL AQUATIC COMPONENTS, DRAINS, FITTINGS, STRUCTURES AND EQUIPMENT FEATURES SHALL BE INSTALLED PER THE MANUFACTURERS RECOMMENDATIONS AND SHALL BEAR ALL NECESSARY LABELS AS REQUIRED BY FEDERAL LAW AND THE INDIANA SWIMMING POOL CODE.
3. ALL WORK SHOWN ON THIS DRAWING IS BY THE AQUATIC CONTRACTOR (AQC) UNLESS OTHERWISE NOTED.
4. REFER TO (AQS) STRUCTURAL DRAWINGS FOR NEW STRUCTURAL CONSTRUCTION WORK ASSOCIATED WITH THE POOL FLOOR WALLS AND RELATED MECHANICAL SYSTEMS WORK.
5. REFER TO CIVIL, ARCHITECTURAL, LANDSCAPING, MECHANICAL AND ELECTRICAL DRAWINGS FOR RELATED WORK ASSOCIATED WITH THE CONSTRUCTION OF THE POOL.
6. AQC IS RESPONSIBLE FOR ALL CONSTRUCTION, EQUIPMENT, PIPING AND CONTROL WIRING OF RELATED POOL EQUIPMENT UNLESS OTHERWISE NOTED
7. NOTE: THE INTEGRAL STAINLESS STEEL GUTTER TUBE RETURN SYSTEM WILL NOT HAVE INLETS FOR THIS INSTALLATION. IT WILL BE FED FROM THE FILTERED RETURN SYSTEM FOR JET WASH FITTINGS ONLY. (THE POOL WILL HAVE A BOTTOM SUPPLY SYSTEM AS DRAWN.) SHOULD THE UNGROUND DISTRIBUTION SYSTEM EVER FAIL IT COULD BE VALVED OFF AND ABANDONED. THE FILTERED RETURN MAIN PIPE COULD THEN BE CONNECTED TO THE GUTTERS RETURN TUBE AND FITTED WITH STANDARD INLET FITTINGS.
8. ALL STAINLESS STEEL HAND RAILINGS ARE TO BE CONSTRUCTED PER THE AMERICAN WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES. 1.5" DIAMETER HANDRAILS WILL BE USED FOR ALL POOL ACCESS AREAS AND EQUIPMENT UNLESS OTHERWISE ALLOWED BY ADA REQUIREMENTS.
9. THERE ARE REDUNDANT CHEMICAL PIPING, MAKE-UP WATER PIPING AND HEATING WATER PIPING SYSTEMS FOR THE FILTERS. THIS WILL ALLOW FOR CONTINUOUS FILTRATION OPERATION SHOULD A FILTER NEED BE SHUT DOWN FOR AN EXTENDED PERIOD OF TIME FOR MAINTENANCE OR SERVICE.
10. REFER TO SHEET "AQ", "AQT" AND "AQS" DRAWINGS FOR ADDITIONAL INFORMATION RELATING TO THE WORK SHOWN ON THIS DRAWING.
11. REFER TO SHEETS AQ500/AQ501 FOR PIPING DIAGRAM FOR FILTER AND CHEMICAL EQUIPMENT PIPING DETAILS FOR ALL VALVE, FLOW METERS, SITE GLASS, AND DRAIN VALVE LOCATIONS ETC.
12. THE POOL WATER HEATERS ARE PROVIDED BY THE AQC. THE AQC IS RESPONSIBLE FOR COORDINATING THE INSTALLATION WITH DIVISION 23 (HVAC) CONTRACTOR, WHO IS RESPONSIBLE FOR PROVIDING COMBUSTION AIR AND FLUE OF THE HEATER.

SCHMIDT ASSOCIATES
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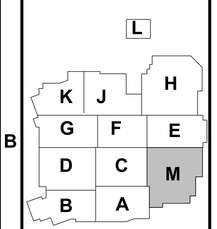

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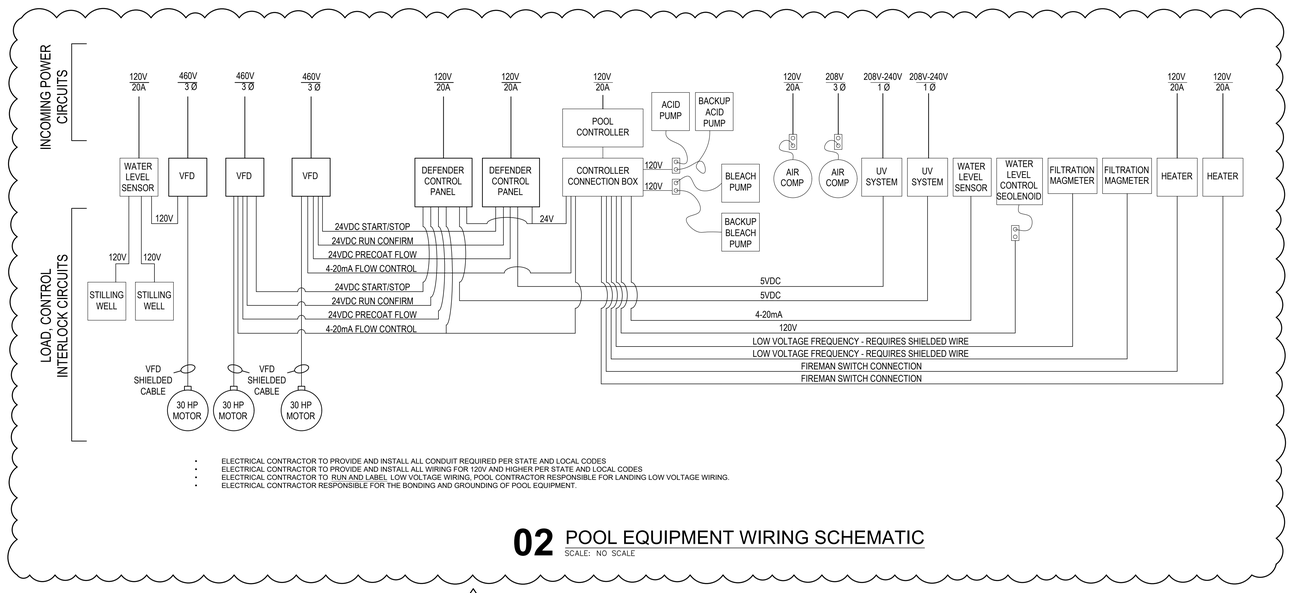
POOL PIPING DIAGRAM

AQ500

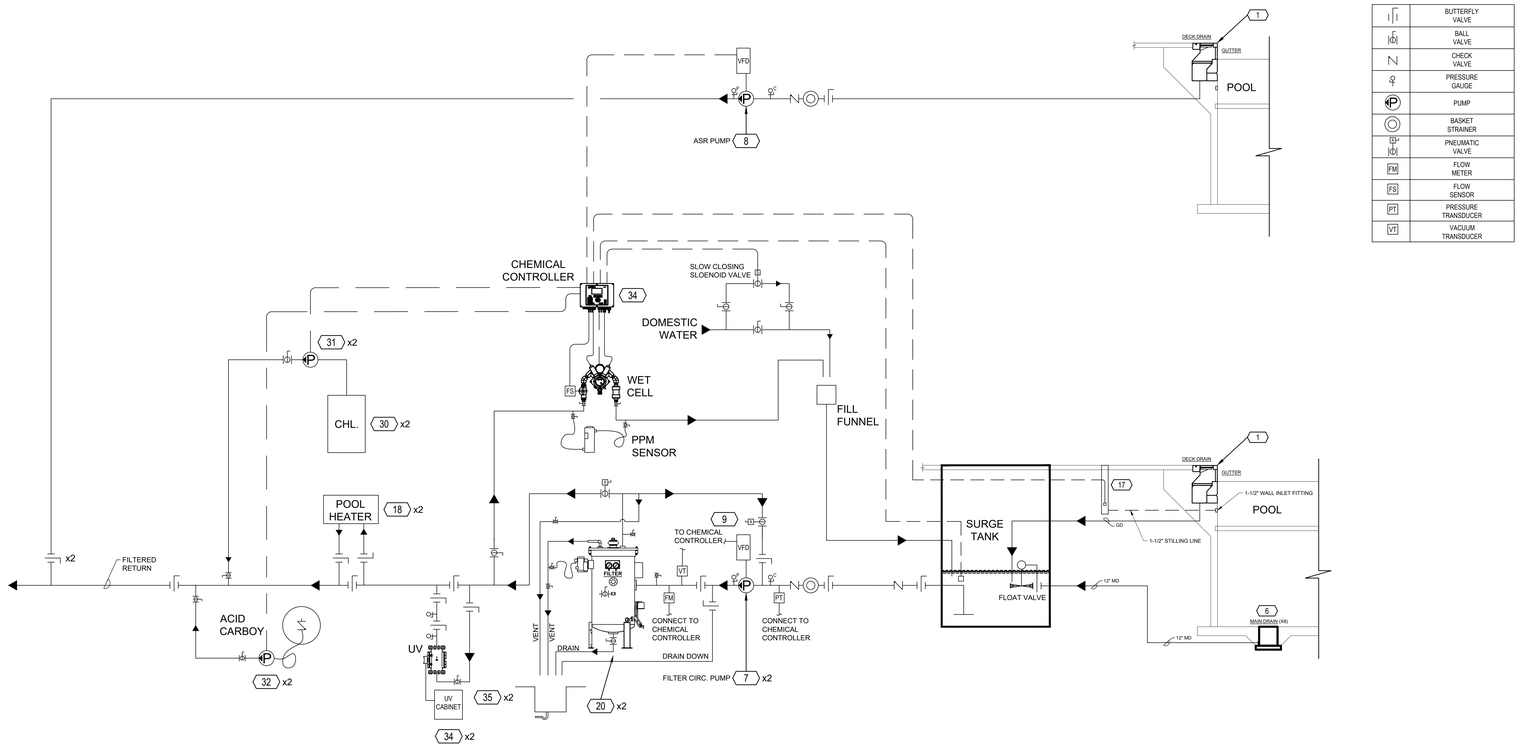


- ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL CONDUIT REQUIRED PER STATE AND LOCAL CODES
- ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL WIRING FOR 120V AND HIGHER PER STATE AND LOCAL CODES
- ELECTRICAL CONTRACTOR TO RUN AND LABEL LOW VOLTAGE WIRING. POOL CONTRACTOR RESPONSIBLE FOR LANDING LOW VOLTAGE WIRING.
- ELECTRICAL CONTRACTOR RESPONSIBLE FOR THE BONDING AND GROUNDING OF POOL EQUIPMENT.

02 POOL EQUIPMENT WIRING SCHEMATIC

SCALE: NO SCALE

2



	BUTTERFLY VALVE
	BALL VALVE
	CHECK VALVE
	PRESSURE GAUGE
	PUMP
	BASKET STRAINER
	PNEUMATIC VALVE
FM	FLOW METER
FS	FLOW SENSOR
PT	PRESSURE TRANSDUCER
VT	VACUUM TRANSDUCER

01 CHEMICAL CONTROLLER DIAGRAM

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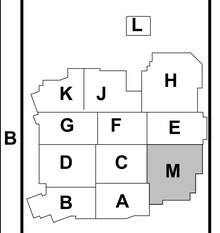

KEY PLAN

MSD OF LAWRENCE TOWNSHIP

ADDITIONS AND RENOVATIONS TO LAWRENCE CENTRAL HIGH SCHOOL

CHEMICAL CONTROLLER DIAGRAM

AQ501

SWIMMING POOL EQUIPMENT SCHEDULE 11-16-2020

ITEM	QUANTITY	EQUIPMENT DESCRIPTION	MANFACTURER	MODEL NUMER	DETAIL REFERENCE AQ SHEETS	NOTES
		CIRCULATION AND DISTRIBUTION EQUIPMENT				
1	496 LF	PERIMETER GUTTER, 12 GA. 316 SS W/ INTEGRAL DECK DRAIN	PADDOCK	C300 PER DRAWINGS	AQ400, AQ700	
2	4	SS DECK DRAIN CLEANOUT BOX WITH SEDEMENT BUCKET	PADDOCK	C300 PER DRAWINGS	04/AQ700	
3	4	SS GUTTER DROP-OUT CONVERTER BOX (10")	PADDOCK	C300 PER DRAWINGS	02 & 07/AQ700	
3A	1	SS GUTTER RETURN CONVERTER BOX (8" FOR FUTURE) (2" FOR JET WASH)	PADDOCK	C300 PER DRAWINGS	02/AQ700	W/ 2" SUPPLY FOR JET WASH FITTINGS
4	2	SS AUXILLARY DROP-OUT CONVERTER BOX	PADDOCK	C300 PER DRAWINGS	01/AQ700	
5	77	ADJUSTABLE FLOOR INLETS	STA-RITE	06417-0200	03/AQ701	
6	8	SS MAIN DRAIN, VGA CERTIFIED FOR 1.5 FPS	PADDOCK	2448 ESMD - 10" AVRD	02/AQ701	
7	2	FILTER CIRCULATING PUMP (FCP)	PENTAIR	3801	04, 05, 06, 07/AQ702	STAINLESS SHEEL IMPELLER
8	1	AUXILLARY PUMP (ASR)	PENTAIR	3801	04, 05, 06, 07/AQ702	STAINLESS SHEEL IMPELLER
9	2	FCP PUMP VARIABLE FREQUENCY DRIVE UNIT	ABB	ACH550-BDR-045A-4+B055	01/AQ500 & AQ501	
10	1	ASR VARIABLE FREQUENCY DRIVE UNIT	ABB	ACH550-BDR-045A-4+B055	01/AQ500 & AQ501	
11	3	STRAINER	NEPTUNE BENSON	1500NBFG10R1	04/AQ701	
12	2	FLOAT VALVE	NEPTUNE BENSON	DVERTPVC10	09/AQ701	W/ NBBSK10T316 STRAINER BASKET
13	2	WATER LEVEL CONTROLLER W/AUTO FILL	BECSYS 7	SLS	01/AQ701	PROVIDE IN SURGE TANK FOR POOL WATER LEVEL CONTROL
14	3	FILTER RETURN FLOW METERS	GF SSIGNET- MAGMETER	3-2551-P1-22	07/AQ704	
15	3	ANTI VORTEX PLATE	AQUATIC TECHNOLOGY	AVOKATE12PVCKIT	01/AQ500	
16	2	IN-LINE DECK DRAIN CLEANOUT	PADDOCK	C300 PER DRAWINGS	01/AQ701	
17	1	ASR PUMP WATER LEVEL CONTROLLER (SURGE LEVEL SENSOR)	BECS	PLX	01/AQ701	PROVIDE IN STILLING CHAMBER FOR ASR PUMP
18	2	GAS FIRED POOL HEATER	LOCHINVAR COPPER-FIN 2	CPN1442	01,02/AQ702	
19	2	POOL HEATER CIRCULATING PUMP	ARMSTRONG	2B1050	01/AQ702	VERIFY MODEL AND VOLTAGE W/MFR.
		FILTRATION EQUIPMENT				
20	2	REGENERATIVE FILTER	NEPTUNE-BENSON -DEFENDER	SP-41-48-1038	05, 06/AQ702	
21	1	REGENERATIVE FILTER AIR COMPRESSOR	NEPTUNE-BENSON	D20	06/AQ702	SHOWN ON FILTER SCHEMATIC
22	2	REGENERATIVE FILTER PRECOAT VALVE (AIR OPERATED)	NEPTUNE-BENSON	D8	06/AQ702	SHOWN ON FILTER SCHEMATIC
23	1	REGENERATIVE FILTER EFLUENT VALVE (AIR OPERATED)	NEPTUNE-BENSON	D7	06/AQ702	SHOWN ON FILTER SCHEMATIC
24		REGENERATIVE FILTER VACUUM TRANSFER UNIT	NEPTUNE-BENSON	D14	06/AQ702	SHOWN ON FILTER SCHEMATIC
		WATER TREATMENT				
30	1	DUAL WALL CHLORINE STORAGE TANK - 500 GALLONS	DEN HARTOG INDUSTRIES	DW0500-57	04/AQ702	OUTER AND INNNER TANK WITH FITTINGS
31	2	CHLORINE METERING PUMP (1- BACK UP)	STENNER	85 SERIES	08/AQ704	ADJUSTABLE HEAD
32	2	ACID METERING PUMP (1- BACK UP)	STENNER	85 SERIES	08/AQ704	ADJUSTABLE HEAD
33	1	CHEMICAL CONTROLLER	BECSSys7	7XS1GP1XOLPIN-7C	03/AQ702	
34	2	UV CONTROLLER	ETS-UV	ECF-215-8-N	09/AQ704	
35	2	UV LIGHT CHAMBER	ETS	ECF-215-8-N	09/AQ704	(2) 3KW LAMPS
36	TBD	CO2 CYLINDERS BY SUPPLIER				NOT REQUIRED AT TIME OF DESIGN
37	1	COMERCIAL WATER TEST KIT	PALINTEST	SPH 7025US		NOT SHOWN ON PLANS
38	1	HYDROCHLORIC ACID - 55 GAL. DRUM	BY SUPPLIER			NOT SHOWN ON PLANS
39	2	SPILL CONTAINMENT BOX, 2-DRUM	ULINE	H4036		ACCESSORIES: H4038 WORK RAMP & H-4039 CONNECTORS
		DECK EQUIPMENT				
40	8 PAIRS	GRABRAILS, STAINLESS STEEL CALIFORNIA STYLE, W/ DUAL POST 1.5" OD W/ WEDGE ANCHORS		35121-.120	01, 02/AQ703	OFFSET FROM GUTTER AS REQUIRED, 1.5" O.D.
41	8 PAIRS	RECESSED STAINLESS STEEL STEPS	PADDOCK / SPECTRUM AQUATICS		01, 02/AQ703	
42	AS NEEDED	ESCUTCHEONS, STAINLESS STEEL	PADDOCK / SPECTRUM AQUATICS	24095-316L	01, 02/AQ703	AT EVERY LOCATION WHERE AN ANCHOR PLACED IN DECK
43	WHERE SHOWN	DEPTH MARKER, FOR DECK INSTALLATION, 8" CERAMIC TILE NON-SLIP FINISH, BLACK COLOR W/ NO DIVING SYMBOL WHERE REQUIRED	INLAYS	AS DETAILED	03/AQ703	
44	WHERE SHOWN	VINYL DEPTH MARKER, FOR GUTTER WALL , 4"- 6" SIZE AS REQUIRED	INLAYS	AS DETAILED		
45	AS NEEDED	SINGLE POST ANCHOR	SPECTRUM AQUATICS	21700		
		COMPETITION EQUIPMENT				
50	19	25 YD. WAVE QUELLING RACING LANES	COMPETITOR SWIM PRODUCTS	200330000	04/AQ703	COLORS SELECTION BY ARCHITECT
51	18	RACING LINE CUP ANCHOR	PADDOCK	PADDOCK	04, 08/AQ700	
52	2	LANE LINE STORAGE REEL W/ CASTERS AND COVER	COMPETITOR SWIM PRODUCTS	REEL - #200 350 COVER - #200 351		
53	21	STARTING PLATFORMS (20 + 1 EXTRA) (40 WEDEGE ANCHOR LOCATIONS)	SPECTRUM	DP XCELLATOR - BLACK	05/AQ703	
54	4	BACKSTROKE FLAG STANCHIONS (16 WEDGE ANCHOR LOCATIONS)	SPECTRUM	23610		
55	4	BACKSTROKE LINE WITH FLAGS	KIEFER	600062	07/AQ703	
56	10	RACING LANE	BLACK CERAMIC TILE	BY OTHERS		REFER TO ARCHITECTURAL DRAWINGS
57	20	RACING LANE LINE W/ WALL TARGETS	BLACK CERAMIC TILE	BY OTHERS		REFER TO ARCHITECTURAL DRAWINGS
58	4	1-METER DIVE STAND	DURAFLEX	MODEL # 70-231-400	08/AQ703	INSTALL PER MANUFACTURER GUIDELINES
59	4	1-METER 16' SPRINGBOARD	DURAFLEX	MAXIFLEX - MODEL B 66-231-330	08/AQ703	
60	1	3-METER DIVE STAND	DURAFLEX	MODEL # 70-231-300	09/AQ703	INSTALL PER MANUFACTURER GUIDELINES
61	1	3-METER 16' SPRINGBOARD	DURAFLEX	MAXIFLEX - MODEL B 66-231-330	09/AQ703	
62	1	BUBBLER AIR COMPRESSOR				
63	5	1/2" STAINLESS STEEL FITTING NOZZLES FOR BUBBLER	US STEEL OR EQUAL	1/2" COUPLING		1/2" FEMALE 304 SS COUPLING
64	2	STAINLESS STEEL BULKHEAD (4'- 0" W X 75'-1" L X 3'-11" H)	PADDOCK	REFER TO DWG.S / SPECIFICATIONS	01/AQ401, 02/AQ401	
65	11	50-M WAVE QUALLING RACING LAINES W/ DISCONNECTS FOR (20) 25 YARD (TWO COLORS AS SELECTED BY ARCHITECT)	COMPETITOR SWIM PRODUCTS			
66	11	25-M WAVE QUALLING RACING LAINES W/ DISCONNECTS FOR 25 METER (TWO COLORS AS SELECTED BY ARCHITECT)	COMPETITOR SWIM PRODUCTS			
67	8	ALTERNATE STARTING PLATFORM LOCATION (16 ANCHORS REQUIRED)	SPECTRUM	DP XCELLATOR - BLACK		

2

		MISCELLANEOUS EQUIPMENT				
70	6	LIFEGUARD CHAIR - 48"	SPECTRUM	# 45023	10/AQ703	
71	1	ACCESS HATCH - 36" X36"	USF FABRICATION, INC	R-TPS	11/AQ703	
72	1	SURGE TANK PUMP PIT LADDER	M. A. INDUSTRIES	#3370834		NOT SHOWN ON PLANS
73	1	ADA CHAIR LIFT	SPECTRUM	MOTION TREK 400	12/AQ703	
74	1	PORTABLE TRANSFER STEPS	RECREONICS/TRIAD TECHNOLOGIES, INC. - AQUA STEP ADA	#46-909 w/ #46-915		STEP SYSTEM TO MATCH PROFILE OF DECK AND POOL WALL
75	1	FLOOR SINK	BY OTHERS			BY OTHERS
76	1	REDUCED PRESSURE BACKFLOW PREVENTER	BY OTHERS			BY OTHERS
77	6	DECK HYDRANT (100' COVERAGE/HOSE BIBB)	BY OTHERS			BY OTHERS
78	1	HOSE BIBB - POOL MECHANICAL EQUIPMENT ROOM	BY OTHERS			BY OTHERS
79	1	HOSE BIBB - CHEMICAL ROOM	BY OTHERS			BY OTHERS
		SPECIALITIES				
80	AS NEEDED	VALVE TAGS	SETON	PLASTIC ID TAGS		REFER TO SPECIFICATIONS FOR LACATIONS
81	AS NEEDED	PIPE ID W/ ARROWS	SETON	#98408		REFER TO SPECIFICATIONS FOR LACATIONS
82	AS NEEDED	BALL VALVES	IPEX	VEE SERIES - SIZE AS REQUIRED		REFER TO PLANS AND DAGRAMS
83	AS NEEDED	BUTTERFLY VALVES - OPERATOR AS REQUIRED	ASAHI/AMERICA	POOL-PRO		REFER TO PLANS AND DAGRAMS
84	AS NEEDED	CHECK VALVES	CENTERLINE	SIZE AS NEEDED	03/AQ704	REFER TO PLANS AND DAGRAMS
85	WHERE SHOWN	PRESSURE GAUGE - 2.5" DIAL	AMERICAN GRANBY	1LPG6025-4LNL		REFER TO PLANS AND DAGRAMS
86	WHERE SHOWN	VACUUM GAUGE - 2.5" DIAL	AMERICAN GRANBY	ILVG3025-4LNL		REFER TO PLANS AND DAGRAMS
87	WHERE SHOWN	PRESSURE GAUGE - 2.5" DIAL	AMERICAN GRANBY	ILPG6025-4LNL		REFER TO PLANS AND DAGRAMS
88	WHERE SHOWN	THERMOMETER	WEISS	DVU35	07/AQ704	REFER TO PLANS AND DAGRAMS
89	WHERE SHOWN	COMPOUND GAUGE	AMERICAN GRANBY	ILVG3025-4LNL	04/AQ704	REFER TO PLANS AND DAGRAMS
90	WHERE NEEDED	AIR RELIEF VALVES WHERE REQUIRED	DEZURIK - APCO	#200A	05/AQ704	LOCATE WHERE REQUIRED
91	AS NEEDED	PIPE AND FITTINGS	PER SPECIFICATIONS	SCHEDULE 80 PVC		REFER TO SPECIFICATIONS
92	WHERE SHOWN	PORTABLE SURGE TANK SUMP PUMP	BY OTHERS			BY OTHERS
93	ENTIRE POOL	POOL ENVELOPE TILE	REFER TO ARCH. PLANS			REFER TO ARCHITECTURAL PLANS
94	1	POOL MAKE UP WATER ASSEMBLY	ASCO	3/4", 12 VOLT	01/AQ500	VALVE ACTUATED BY CHEMICAL CONTROLLER
		TIMING SYSTEM SPECIALITIES				
100	40	TITANIUM SERIAL SYSTEM DECK PLATES	COLORADO TIMING	TDPI-D2	AQT201	REFER TO AQT DRAWINGS
101	2	CHAMPIONSHIP START SYSTEM	COLORADO TIMING	STANDARD SS	AQT201	REFER TO AQT DRAWINGS
102	1	WIRELESS HANDHELD CONTROLLER FOR SEGMENT TIMER	COLORADO TIMING	WHC-2	AQT201	REFER TO AQT DRAWINGS
103	1	SCOREBOARD SYSTEM - INDOOR LED VIDEO DISPLAY	COLORADO TIMING	10mm-304x576	AQT201	REFER TO AQT DRAWINGS
104	1	SCOREBOARD CONSOLE	COLORADO TIMING	GEN 7 TIMER	AQT201	REFER TO AQT DRAWINGS
105	22	AQUAGRIP TOUCH PADS (20 + 2 EXTRA'S)	COLORADO TIMING	TP-78-G	AQT201	REFER TO AQT DRAWINGS
106	5	TITANIUM BULKHEAD DECK PLATES	COLORADO TIMING	(3) TDPI-BH3 INDECK, (2) TDPI-BH4 IN BULKHEAD	AQT201	REFER TO AQT DRAWINGS
107	3	TITANIUM START SYSTEM DECK PLATES	COLORADO TIMING	TDPI-S2	AQT201	REFER TO AQT DRAWINGS
108	5	SERIAL WALL PLATE	COLORADO TIMING	R-1004-0549	AQT201	REFER TO AQT DRAWINGS
119	5	SERIAL WALL PLATE TIMER CONNECTION NODE	COLORADO TIMING	WPI-T1	AQT201	REFER TO AQT DRAWINGS
110	1	TITANIUM SERIAL WALL PLATE SCOREBOARD CONNECTION NOTE	COLORADO TIMING	WPI-SC5	AQT201	REFER TO AQT DRAWINGS
111	1	SERIAL WALL PLATE FIBER CONNECTION	COLORADO TIMING	WPI-F4	AQT201	REFER TO AQT DRAWINGS
112	2	SERIAL WALL PLATE DIVING RS485 DIVING CONNECTION	COLORADO TIMING	WPI-485	AQT201	REFER TO AQT DRAWINGS
113	1	FIVE JUDGE DIVING SCORING SYSTEM	COLORADO TIMING	JSYS-5	AQT201	REFER TO AQT DRAWINGS
114	4	6-DIGIT SLIM PACE CLOCK/TIME OF DAY CLOCK	COLORADO TIMING	SP-106X	AQT201	REFER TO AQT DRAWINGS
		SAFETY EQUIPMENT NOT SHOWN				
120	1	LIFE (SHEPHERDS) HOOK W/ 16' POLE	PENTAIR	R191104		NOT SHOWN ON PLANS
121	1	LIFE HOOK	PENTAIR	R221026		NOT SHOWN ON PLANS
122	1	BACKBOARD	GREEN MAX BOARD	#735 MP		NOT SHOWN ON PLANS
123	2	RESCUE TUBE	WSP	#708		NOT SHOWN ON PLANS
124	2	SAFETY LINE W/ FLOATS WITH ROPE AND HOOKS FOR CUP ANCHORS	PENTAIR	R181086 - 63'		COLOR SELECTION BY ARCHITECT
125	6	LIFEGUARD CHAIR - 48"	SPECTRUM	42023	10/AQ703	NOT SHOWN ON PLANS
126	1	24" RINGBOUY	WSP	BOUY - #720		NOT SHOWN ON PLANS
127	1	THROW ROPE	WSP	724		NOT SHOWN ON PLANS
128	1	SELF CONTAINED EMEMGENCY BOTTLE EYE WASH	ULINE	H-1297		W/TWO - W/2 S-11507 SALINE CARTRIDGES NOT DETAILED
		MAINTENANCE EQUIPMENT NOT SHOWN				
130	1	PORTABLE VACUUM PUMP W/CARTRIDGE FILTER & HOSE	SPECTRUM	10670		NOT SHOWN ON PLANS
131	1	18" VACUUM CLEANING HEAD W/ 2" HOSE CONN. AND 16' POLE	PENTAIR	250		NOT SHOWN ON PLANS
132	1	VACUUM HOSE, 1-1/2" X 50'	RECREONICS	10-414		NOT SHOWN ON PLANS
133	1	ELECTRIC BEAM HOIST	BISON	HHBD01SK-01+WPCO1		NOT SHOWN ON PLANS
134	1	SKIMMER NET	SERVIE PRO	126		NOT SHOWN ON PLANS

SWIMMING POOL ELECTRICAL SCHEDULE 11/16/2020

ITEM	QUANTITY	EQUIPMENT DESCRIPTION	MANFACTURER	MODEL NUMER	FLOW	HEAD	HP	RPM	VOLTAGE	PHASE	NOTES
		CIRCULATION AND DISTRIBUTION EQUIPMENT									
7	2	FILTER SYSTEM CIRCULATING PUMP (FCP)	PENTAIR-AURORA	3801	924 GPM	80	30	1800	480	3	
8	1	AUXILLARY PUMP (ASR)	PENTAIR-AURORA	3801	924 GPM	80	30	1800	480	3	
9	2	FCP PUMP VARIABLE FREQUENCY DRIVE UNIT	ABB	ACH550-BDR-045A-4+B055					480	3	
10	1	ASR PUMP VARIABLE FREQUENCY DRIVE UNIT	ABB	ACH550-BDR-045A-4+B055					480	3	
13	1	WATER LEVEL CONTROLLER W/AUTO FILL	BECSYS 7	SLS					120	1	
17	2	ASR WATER LEVEL CONTROLLER W/AUTO FILL	BECSYS 7	SLS					120	1	
18	2	GAS FIRED POOL HEATER	LOCHINVAR COPPER-FIN 2	CPN1442							1.440 MBTU INPUT, 1.224 MBTU OUTPUT
19	2	GAS FIRED POOL HEATER	ARMSTRONG (SUPPLIED BY LOCHINVAR)	2B1050			0.75		120	1	VERIFY HP & VOLTAGE WITH MFR
		FILTRATION EQUIPMENT									
21	1	REGENERATIVE FILTER AIR COMPRESSOR AND RECEIVER	SUPPLIED BY NEPTUNE-BENSON -DEFENDER	VERIFY HP			2	2	120	1	
22	1	REGENERATIVE FILTER VACUUM TRANSFER UNIT	SUPPLIED BY NEPTUNE-BENSON -DEFENDER					0.25	120	1	PLUG IN TO RECEPTACLE
		WATER TREATMENT									
31	2	CHLORINE METERING PUMP (1- BACK UP)	STENNER	85 SERIES					120	1	
32	2	ACID METERING PUMP (1- BACK UP)	STENNER	85 SERIES					120	1	
33	1	CHEMICAL CONTROLLER	BECSSys7	VERIFY W/ MFR.					120	1	
34	2	UV CONTROLLER	ETS-UV	ECF-215-8-N					208	1	CABLE AS REQUIRED
35	1	UV LIGHT CHAMBER	ETS	ECF-215-8-N					208	1	(2) 3KW LAMPS
		COMPETITION EQUIPMENT									
62	1	BUBBLER AIR COMPRESSOR W/ 80 GALLON RECEIVER	INGERSOL RAND	2475N5			5		208	3	2 STAGE, 175 PSI
		TIMING SYSTEM SPECIALITIES									
103	1	VIDEO SCOREBOARD	COLORADO TIMING	10mm-304x576					120	1	
104	1	SCOREBOARD CONSOLE	COLORADO TIMING	GEN 7 TIMER					120	1	
115	AS SHOWN	QUAD AND DUPLEX RECEPTACLES							120	1	
		MAINTENANCE EQUIPMENT									
133	1	ELECTRIC BEAM HOIST	BISON	HHBD01SK-01+WPCO1					120	1	
134	1	PORTABLE VACUUM PUMP W/CARTRIDGE FILTER & HOSE	SPECTRUM WILDCAT E 1	BF848KP			1		120	1	NOT SHOWN ON DRAWINGS

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Project No. 2018-050.LCP
Project Date 12.01.2021
Produced MARV TRIETSCH

#	Revision	Date
2	ADDENDUM #2	12/17/21

Project No. 2018-050.LCP
Project Date 12.01.2021
Produced MARV TRIETSCH
Revision Date

JAMES J. KACIUS REGISTERED No. AR00860009 STATE OF INDIANA ARCHITECT

JAMES J. KACIUS

Aquatic & Recreation Design
1909 WEST PEOGA LAKE DRIVE
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PHONE: (317) 933-5951

DRAWN BY: DAN SMITH
CHECKED BY: MARV TRIETSCH
ARD PROJECT #:
DATE:

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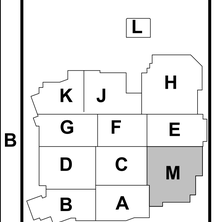


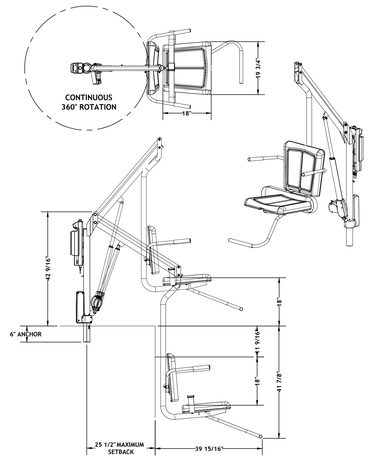
KEY PLAN

MSD OF LAWRENCE TOWNSHIP

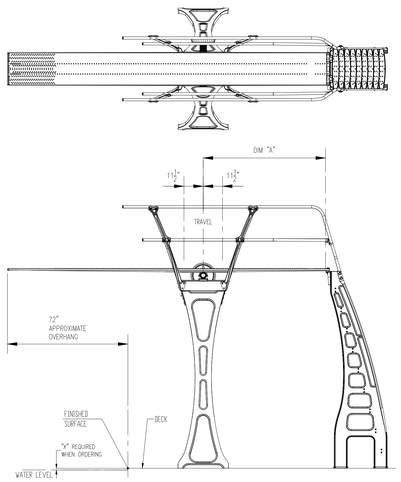
ADDITIONS AND RENOVATIONS TO LAWRENCE CENTRAL HIGH SCHOOL

POOL EQUIPMENT SCHEDULES

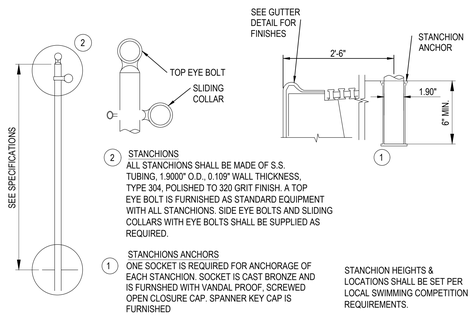
AQ600



12 ADA CHAIR LIFT DETAIL
SCALE: NONE



09 3 METER DIVING BOARD/HANDRAIL DETAIL
SCALE: NONE



2 STANCHIONS
ALL STANCHIONS SHALL BE MADE OF S.S. TUBING, 1.9000" O.D., 0.109" WALL THICKNESS, TYPE 304, POLISHED TO 320 GRIT FINISH. A TOP EYE BOLT IS FURNISHED AS STANDARD EQUIPMENT WITH ALL STANCHIONS. SIDE EYE BOLTS AND SLIDING COLLARS WITH EYE BOLTS SHALL BE SUPPLIED AS REQUIRED.

1 STANCHIONS ANCHORS
ONE SOCKET IS REQUIRED FOR ANCHORAGE OF EACH STANCHION. SOCKET IS CAST BRONZE AND IS FURNSHED WITH VANDAL PROOF, SCREWED OPEN CLOSURE CAP. SPANNER KEY CAP IS FURNISHED

STANCHION HEIGHTS & LOCATIONS SHALL BE SET PER LOCAL SWIMMING COMPETITION REQUIREMENTS.

VERIFY LOCATION WITH OWNER PRIOR TO INSTALLATION

06 STANCHION DETAIL
SCALE: NONE

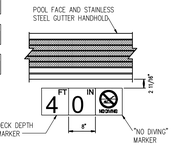
DEPTH MARKER NOTES:

1. DEPTH SHALL BE VERIFIED BY AQC AND GENERAL CONTRACTOR.
2. MARKERS SHALL BE INSTALLED TO INDICATE ACTUAL DEPTH OF WATER.
3. DECK DEPTH MARKERS SHALL BE SPACED AT NOT MORE THAN 25 FEET INTERVALS, MEASURED PERIPHERALLY. REFER TO PLAN FOR APPROXIMATE LOCATION.
4. DECK DEPTH MARKERS SHALL BE 6"X6" WHITE, NON-SLIP TILE WITH MIN. 4" HIGH BLACK NUMERALS & LETTERS.
5. "NO DIVING" MARKERS SHALL BE 6"X6" WHITE, NON-SLIP TILE WITH RED INTERNATIONAL "NO DIVING" SYMBOL AND BLACK LETTERS.
6. DEPTH MARKER AND "NO DIVING" TILES SHALL BE RECESSED SO THAT FACE OF TILE IS FLUSH WITH FINISHED SURFACE OF POOL DECK.

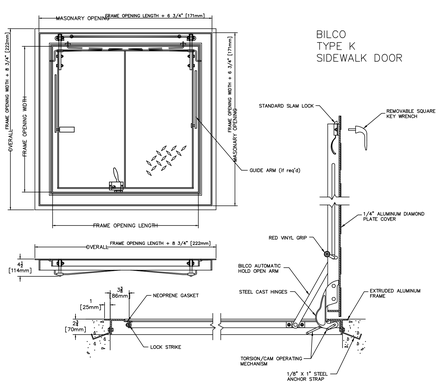
DEPTH TILE SCHEDULE

**SEE POOL LAY-OUT PLAN FOR APPROXIMATE LOCATION OF DEPTH MARKERS

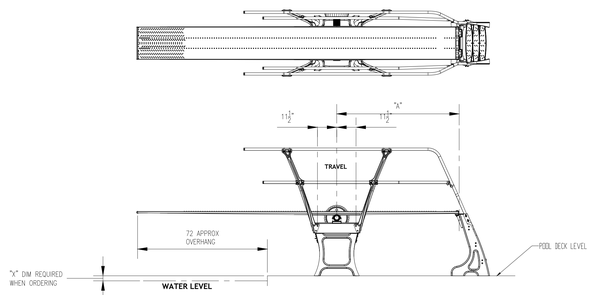
DM-1	4 FT 0 IN NO DIVING	DM-6	10 FT 0 IN
DM-2	5 FT 0 IN NO DIVING	DM-7	12 FT 0 IN
DM-3	6 FT 0 IN	DM-8	14 FT 0 IN
DM-4	7 FT 0 IN		
DM-5	8 FT 0 IN		



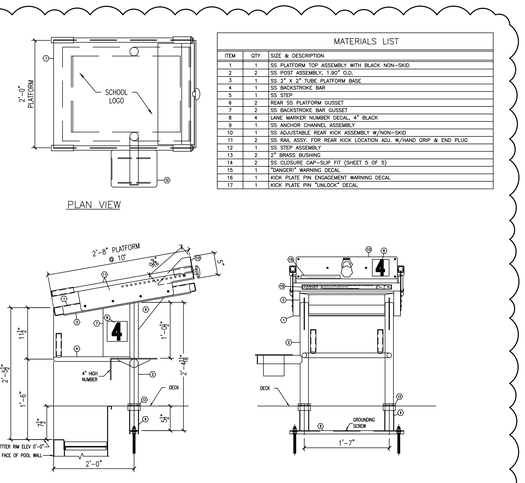
03 DEPTH MARKER DETAIL
SCALE: NONE



11 36x36 ALUMINUM HATCH
SCALE: NONE

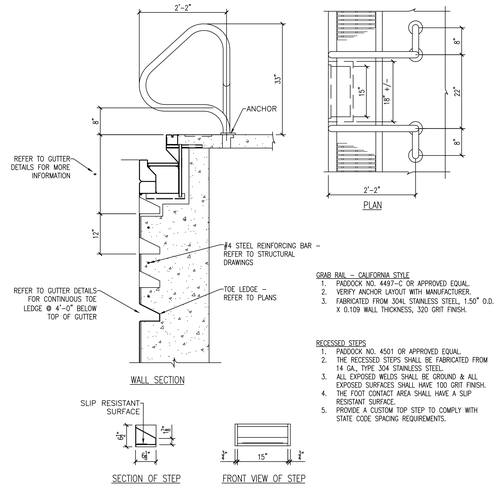


08 1 METER DIVING BOARD/HANDRAIL DETAIL
SCALE: NONE

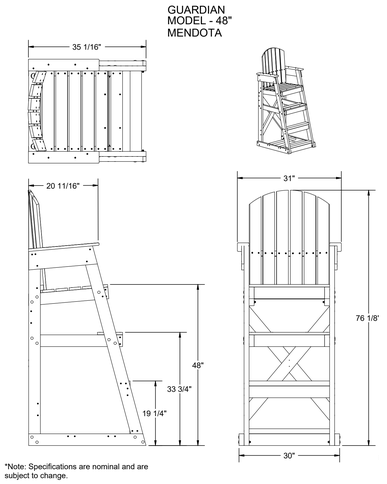


MATERIALS LIST		
ITEM	QTY	SIZE & DESCRIPTION
1	1	SS PLATFORM TOP ASSEMBLY WITH BLACK NON-SKID
2	2	SS PIVOT ASSEMBLY, 1.90" O.D.
3	1	SS 2" X 2" TUBE PLATFORM BASE
4	1	SS BACKSTROKE BAR
5	1	SS STEP
6	2	REAR SS PLATFORM GUSSET
7	2	SS BACKSTROKE BAR GUSSET
8	4	LANE MARKER NUMBER DECAL, 4" BLACK
9	1	SS ANCHOR CHANNEL ASSEMBLY
10	1	SS ADJUSTABLE REAR KICK ASSEMBLY W/NON-SKID
11	2	SS RAIL ASSY. FOR REAR KICK LOCATION ADJ. W/HAND GRIP & END PLUG
12	1	SS STEP ASSEMBLY
13	2	2" BRASS BUSHING
14	2	SS CLOSURE CAP-SLIP FIT (SHEET 5 OF 5)
15	1	"DANGER" WARNING DECAL
16	1	KICK PLATE PIN ENGAGEMENT WARNING DECAL
17	1	KICK PLATE PIN "UNLOCK" DECAL

05 STARTING PLATFORM DETAIL
SCALE: NONE

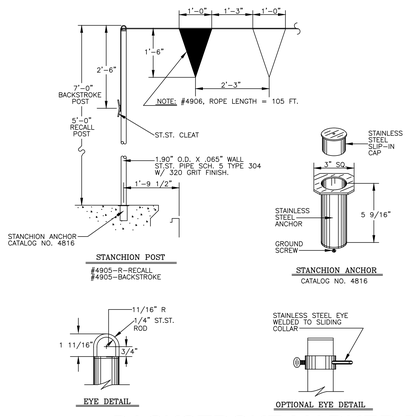


02 GRAB RAIL AND RECESSED STEPS DETAIL
SCALE: NO SCALE

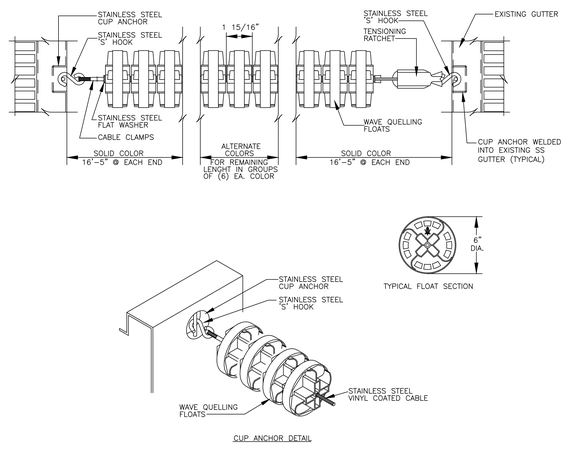


*Note: Specifications are nominal and are subject to change.

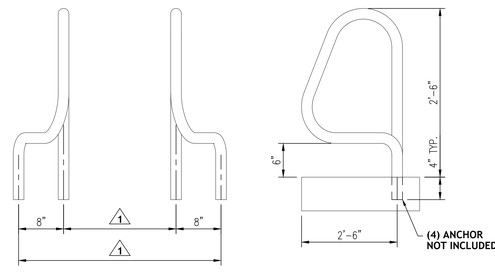
10 PORTABLE LIFEGUARD CHAIR DETAIL
SCALE: NONE



07 BACKSTROKE MARKER DETAIL
SCALE: NO SCALE



04 RACE LINE DETAIL
SCALE: NONE



NOTE:
1 DIMENSIONS VERY WITH SPECIFIC APPLICATIONS. SPECIFICATIONS ARE NOMINAL AND ARE SUBJECT TO CHANGE. PLEASE CONTACT SPECTUM PRODUCTS FOR CUSTOM APPLICATIONS.

01 GRAB RAIL DETAIL
SCALE: NONE

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Project No. 2018-050.LCP
Project Date 12.01.2021
Produced MARV TRIETSCH

#	Revision	Date
2	ADDENDUM #2	12/17/21

Project No. 2018-050.LCP
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JAMES J. KACIUS
REGISTERED
No. AR00860009
STATE OF INDIANA
ARCHITECT

JAMES J. KACIUS

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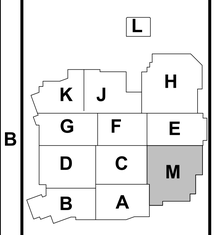


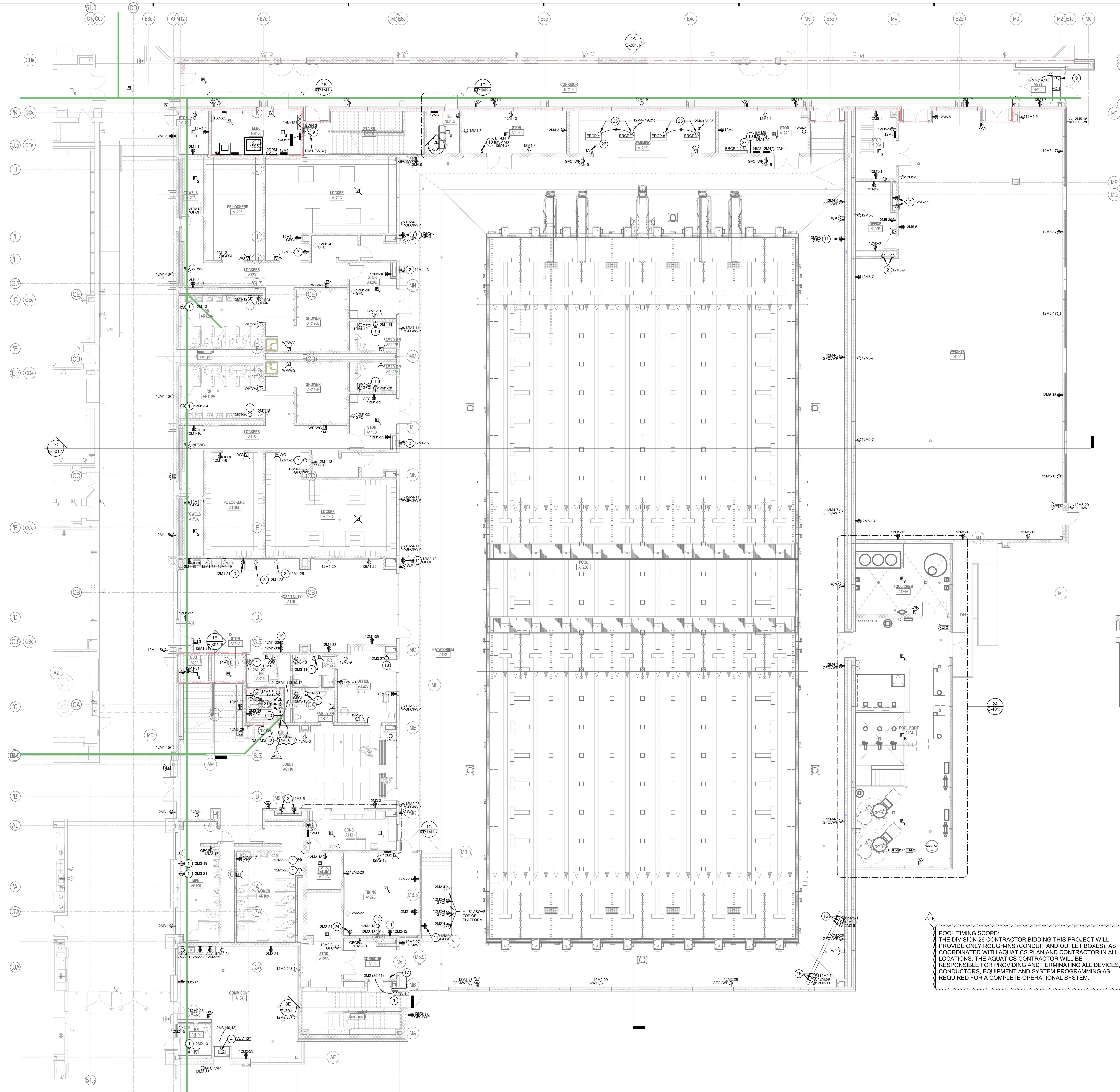
KEY PLAN

MSD OF LAWRENCE TOWNSHIP

ADDITIONS AND RENOVATIONS TO LAWRENCE CENTRAL HIGH SCHOOL

POOL DETAILS

AQ703



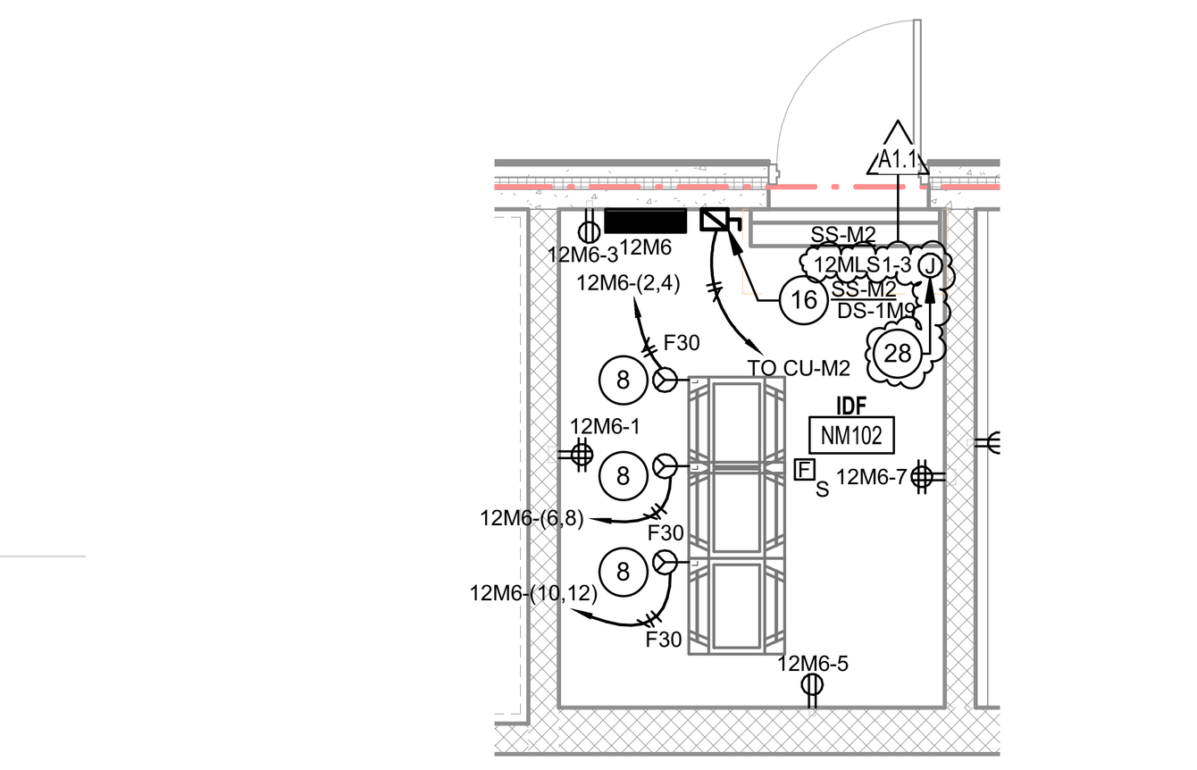
2A FIRST FLOOR POWER PLAN - UNIT M
1/8" = 1'-0"

GENERAL POWER NOTES

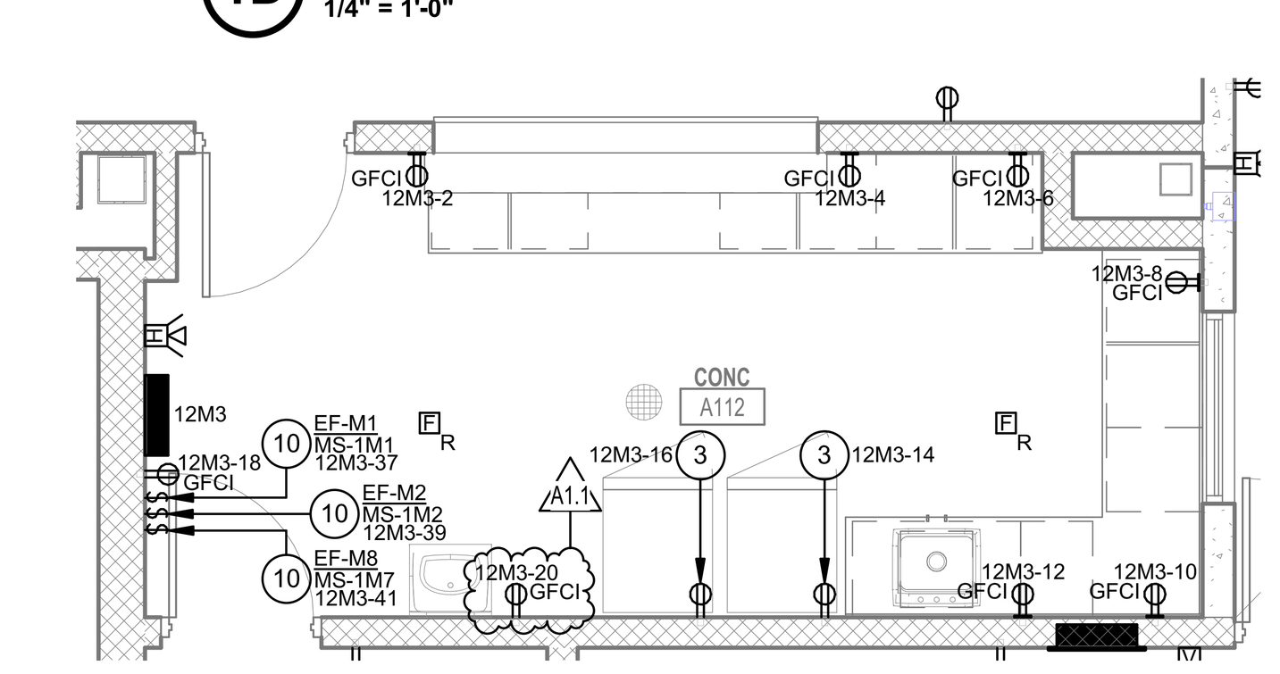
#	NOTES
A	REFER TO SHEET E-001 FOR ADDITIONAL INFORMATION.
B	PROVIDE CORROSION RESISTANT FASTENERS AND HARDWARE FOR ALL DEVICES AND FIXTURES INSTALLED IN NATATORIUM, POOL EQUIPMENT ROOM, AND POOL CHEMICAL ROOM.

POWER PLAN NOTES

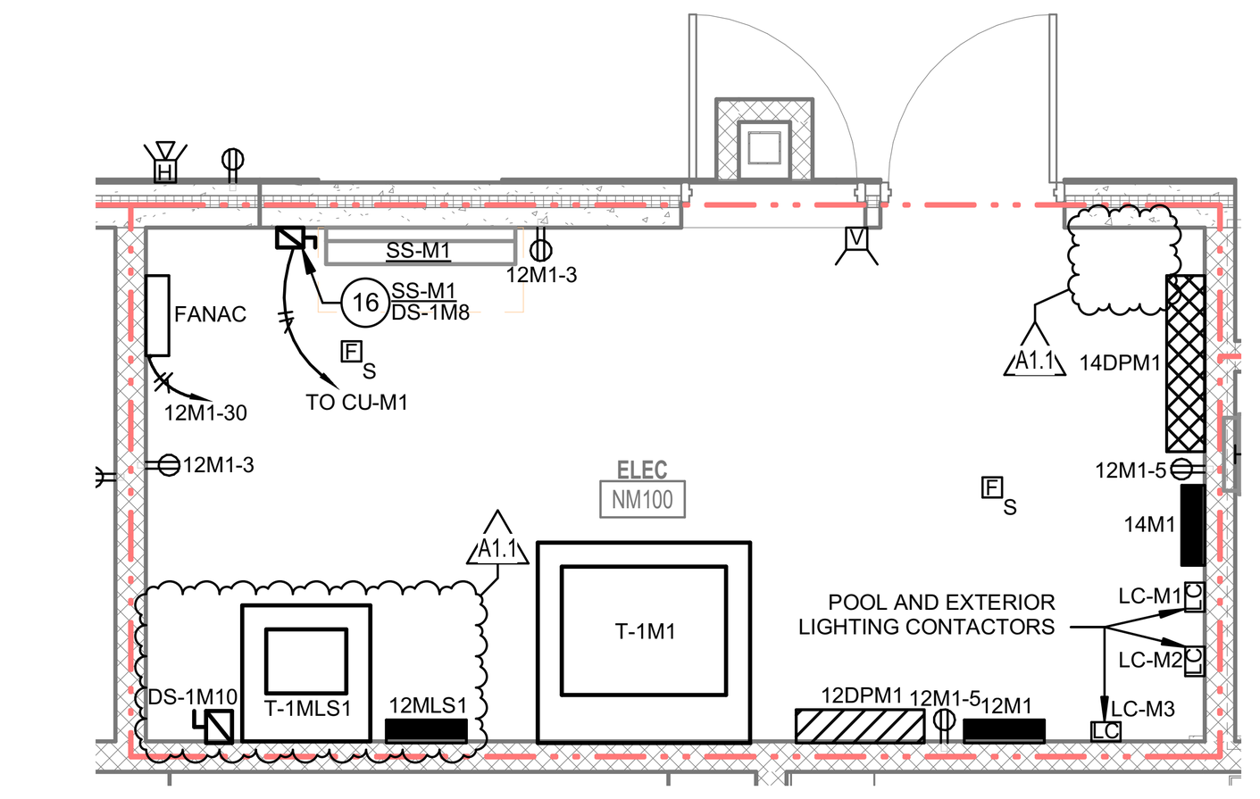
#	NOTES
1	PROVIDE CIRCUIT CONNECTION FOR HAND DRYER. COORDINATE MOUNTING HEIGHT WITH A-SERIES DRAWINGS.
2	RECEPTACLE FOR ELECTRIC WATER COOLER. COORDINATE LOCATION WITH MANUFACTURER PRIOR TO INSTALLATION. CIRCUIT PROTECTED BY GFCI BREAKER.
3	RECEPTACLE FOR REFRIGERATOR AT +46" A.F.F. TO C.L. CIRCUIT PROTECTED BY GFCI BREAKER.
4	CIRCUIT CONNECTION FOR VUV. CONNECT TO MANUFACTURER PROVIDED DISCONNECT SWITCH. PROVIDE BRANCH CIRCUIT WIRING TO MATCH OR EXCEED CIRCUIT BREAKER SIZE.
5	CIRCUIT CONNECTION(S) TO AIR HANDLING UNIT. CONNECT THROUGH VFDS FURNISHED BY TEMPERATURE CONTROL CONTRACTOR.
6	CIRCUIT CONNECTION FOR LIGHTS AND RECEPTACLES INSTALLED IN AHU. COORDINATE LOCATION WITH MANUFACTURER.
7	RECEPTACLE FOR SWIM SUIT WATER EXTRACTOR. COORDINATE LOCATION WITH MANUFACTURER PRIOR TO INSTALLATION. CIRCUIT PROTECTED BY GFCI BREAKER.
8	NEMA L6-30 RECEPTACLE FOR TELECOMMUNICATIONS RACK INSTALLED ON TOP RAIL OF RACK. COORDINATE WITH T-SERIES DRAWINGS. TYPICAL FOR ALL SHOWN.
9	PROVIDE CIRCUIT AND CONNECT TO MANUFACTURER PROVIDED DISCONNECT SWITCH.
10	PROVIDE TOGGLE SWITCH OR MOTOR STARTER ON WALL AT +46" A.F.F. CONNECT TO UNIT PROVIDED DISCONNECT SWITCH LOCATED IN EXHAUST FAN ON ROOF. COORDINATE CONTROLS WITH M-SERIES DRAWINGS.
11	RECEPTACLE FOR TIMING AND SCORING EQUIPMENT.
12	SMOKE DETECTOR FOR ELEVATOR RECALL.
13	PROVIDE BACK BOX, RACEWAYS TO CIRCULATION FANS, CONTROL WIRING, AND INSTALL MANUFACTURER FURNISHED CIRCULATION FAN CONTROLLER. REFER TO M-SERIES SHEETS FOR CONTROLLER LOCATION. REFER TO FIRE ALARM PLANS.
14	CONNECT FAN THROUGH CIRCUIT INDICATED AND CONTROL THROUGH CONTROLLER LOCATED IN FIRST FLOOR COACH'S OFFICE. INTERCONNECT WITH FIRE ALARM SYSTEM TO DE-ENERGIZE POWER DURING/UPON A SPRINKLER SYSTEM ALARM.
15	RECEPTACLES SERVING SCOREBOARD. COORDINATE RECEPTACLE LOCATIONS PRIOR TO ROUGH-IN WITH AQ-SERIES DRAWINGS. REFER TO SHEET AQT201.4.
16	DISCONNECT SWITCH FOR FAN COIL UNIT SPLIT SYSTEM. REFER TO ROOF PLANS FOR LOCATION OF CORRESPONDING CONDENSING UNIT.
17	PROVIDE RECESSED JUNCTION BOX ROUGH-IN WITH BLANK COVER PLATE AT +31'-8" ABOVE POOL DECK FOR FUTURE ELECTRIC SHADE SYSTEM. PROVIDE 1" CONDUIT WITH PULL STRING FROM JUNCTION BOX DOWN INSIDE OF WALL TO ABOVE CEILING AREA OF CLOSEST ACCESSIBLE CEILING.
18	CIRCUIT CONNECTION FOR TEMPERATURE CONTROL PANEL. VERIFY FINAL LOCATION IN FIELD WITH DIVISION 23 CONTRACTOR.
19	RECEPTACLE FOR DISPLAY MONITOR. COORDINATE MOUNTING HEIGHT WITH T-SERIES DRAWINGS.
20	POWER CONNECTION FOR ELEVATOR MOTOR. CONFIRM FINAL LOCATION WITH ELEVATOR EQUIPMENT MANUFACTURER.
21	FIRE ALARM ADDRESSABLE RELAYS FOR ELEVATOR RECALL FOR DESIGNATED FLOOR, ELEVATOR RECALL FOR ALTERNATE FLOOR AND ELEVATOR HAT LIGHT.
22	DISCONNECT SWITCH FOR ELEVATOR CAB LIGHTS. CONFIRM FINAL LOCATION WITH ELEVATOR EQUIPMENT MANUFACTURER.
23	RECEPTACLE FOR ELEVATOR PIT SUMP PUMP LOCATED AT +0" A.F.F. TO C.L.
24	QUADRUPLEX RECEPTACLE FOR SOUND RACK. COORDINATE LOCATION AND MOUNTING HEIGHT WITH T-SERIES DRAWINGS.
25	RADIANT PANEL. CONNECT TO CIRCUIT INDICATED. J-BOX BY RADIANT PANEL MANUFACTURER. REFER TO M-SERIES DRAWINGS.
26	RADIANT PANEL SYSTEM LOW VOLTAGE CONTROLLER.
27	RADIANT PANEL SYSTEM RELAY PANEL.
28	CIRCUIT CONNECTION FOR CARD READER.



1D ENLARGED POWER PLAN - IDF NM102
1/4" = 1'-0"



1C ENLARGED POWER PLAN - CONCESSIONS
1/4" = 1'-0"



1B ENLARGED POWER PLAN - ELEC NM100
1/4" = 1'-0"

POOL TIMING SCOPE:
THE DIVISION 26 CONTRACTOR BIDDING THIS PROJECT WILL PROVIDE ONLY ROUGH-INS (CONDUIT AND OUTLET BOXES), AS COORDINATED WITH AQUATICS PLAN AND CONTRACTOR IN ALL LOCATIONS. THE AQUATICS CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND TERMINATING ALL DEVICES, CONDUCTORS, EQUIPMENT AND SYSTEM PROGRAMMING AS REQUIRED FOR A COMPLETE OPERATIONAL SYSTEM.

FIRE ALARM SYSTEM SCOPE:
THE CONTRACTOR BIDDING THIS PROJECT WILL PROVIDE ONLY FIRE ALARM SYSTEM ROUGH-INS (CONDUIT AND OUTLET BOXES), IN ALL LOCATIONS AS INDICATED INCLUDING WALLS, CEILINGS, AREAS WITH NO CEILINGS, ETC. THE CONTRACTOR/FIRE ALARM VENDOR IN PHASE 1 WILL BE RESPONSIBLE FOR PROVIDING AND TERMINATING ALL DEVICES, CONDUCTORS, EQUIPMENT (SUCH AS NACS, ETC.) AND SYSTEM PROGRAMMING AS REQUIRED FOR A COMPLETE OPERATIONAL SYSTEM.

PROVIDE THE FOLLOWING RACEWAY ITEMS IN ROOM A122, NATATORIUM AND ROOMS A124/A124A POOL EQUIP/POOL CHEM AS REQUIRED:

-SCHEDULE 80 PVC CONDUIT OVERHEAD AND WITHIN WALLS FOR OUTLETS OPENING INTO THE ROOMS LISTED ABOVE. PROVIDE NON-METALLIC OUTLET BOXES.

-STAINLESS STEEL EXPANSION ANCHORS.

-STAINLESS STEEL CONDUIT AND CABLE SUPPORTS.

-STAINLESS STEEL CABLE FOR SUSPENDING LIGHT FIXTURES.

-NON-METALLIC COATINGS ON STEEL SLOTTED SUPPORT SYSTEMS.

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Project No. 2018-050.LCP
Project Date 12.01.2021
Produced JTH EAG

SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

#	Revision	Date
A1.1	Addendum #1	12.13.2021
A2.1	Addendum #2	01.04.2022

7300 E 56th St.
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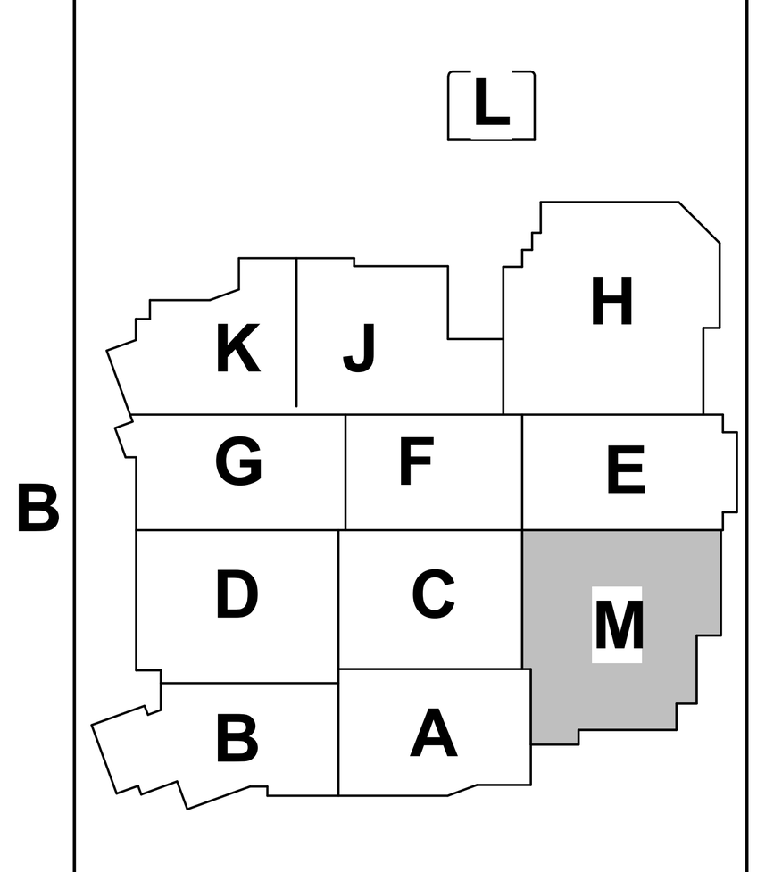

KEY PLAN

MSD OF LAWRENCE TOWNSHIP

FIRST FLOOR POWER PLAN - UNIT M

EP1M1.1

GENERAL POWER NOTES

#	NOTES
A	REFER TO SHEET E-001 FOR ADDITIONAL INFORMATION.
B	PROVIDE CORROSION RESISTANT FASTENERS AND HARDWARE FOR ALL DEVICES AND FIXTURES INSTALLED IN NATATORIUM, POOL EQUIPMENT ROOM, AND POOL CHEMICAL ROOM.

POWER PLAN NOTES

#	NOTES
1	PROVIDE CIRCUIT CONNECTION FOR HAND DRYER. COORDINATE MOUNTING HEIGHT WITH A-SERIES DRAWINGS.
2	RECEPTACLE FOR ELECTRIC WATER COOLER. COORDINATE LOCATION WITH MANUFACTURER PRIOR TO INSTALLATION. CIRCUIT PROTECTED BY GFCI BREAKER.
3	RECEPTACLE FOR REFRIGERATOR AT +48" A.F.F. TO C.L. CIRCUIT PROTECTED BY GFCI BREAKER.
4	CIRCUIT CONNECTION FOR VUV. CONNECT TO MANUFACTURER PROVIDED DISCONNECT SWITCH. PROVIDE BRANCH CIRCUIT WIRING TO MATCH OR EXCEED CIRCUIT BREAKER SIZE.
5	CIRCUIT CONNECTION(S) TO AIR HANDLING UNIT. CONNECT THROUGH VFDS FURNISHED BY TEMPERATURE CONTROL CONTRACTOR.
6	CIRCUIT CONNECTION FOR LIGHTS AND RECEPTACLES INSTALLED IN AHU. COORDINATE LOCATION WITH MANUFACTURER.
7	RECEPTACLE FOR SWIM SUIT WATER EXTRACTOR. COORDINATE LOCATION WITH MANUFACTURER PRIOR TO INSTALLATION. CIRCUIT PROTECTED BY GFCI BREAKER.
8	NEMA L6-30 RECEPTACLE FOR TELECOMMUNICATIONS RACK INSTALLED ON TOP RAIL OF RACK. COORDINATE WITH T-SERIES DRAWINGS. TYPICAL FOR ALL SHOWN.
9	PROVIDE CIRCUIT AND CONNECT TO MANUFACTURER PROVIDED DISCONNECT SWITCH.
10	PROVIDE TOGGLE SWITCH OR MOTOR STARTER ON WALL AT +48" A.F.F. CONNECT TO UNIT PROVIDED DISCONNECT SWITCH LOCATED IN EXHAUST FAN ON ROOF. COORDINATE CONTROLS WITH M-SERIES DRAWINGS.
11	RECEPTACLE FOR TIMING AND SCORING EQUIPMENT.
12	SMOKE DETECTOR FOR ELEVATOR RECALL.
13	PROVIDE BACK BOX, RACEWAYS TO CIRCULATION FANS, CONTROL WIRING, AND INSTALL MANUFACTURER FURNISHED CIRCULATION FAN CONTROLLER. REFER TO M-SERIES SHEETS FOR CONTROLLER LOCATION. REFER TO FIRE ALARM PLANS.
14	CONNECT FAN THROUGH CIRCUIT INDICATED AND CONTROL THROUGH CONTROLLER LOCATED IN FIRST FLOOR COACH'S OFFICE. INTERCONNECT WITH FIRE ALARM SYSTEM TO DE-ENERGIZE POWER DURING/UPON A SPRINKLER SYSTEM ALARM.
15	RECEPTACLES SERVING SCOREBOARD. COORDINATE RECEPTACLE LOCATIONS PRIOR TO ROUGH-IN WITH AQ-SERIES DRAWINGS. REFER TO SHEET AQT201.4.
16	DISCONNECT SWITCH FOR FAN COIL UNIT SPLIT SYSTEM. REFER TO ROOF PLANS FOR LOCATION OF CORRESPONDING CONDENSING UNIT.
17	PROVIDE RECESSED JUNCTION BOX ROUGH-IN WITH BLANK COVER PLATE AT +31'-8" ABOVE POOL DECK FOR FUTURE ELECTRIC SHADE SYSTEM. PROVIDE 1" CONDUIT WITH PULL STRING FROM JUNCTION BOX DOWN INSIDE OF WALL TO ABOVE CEILING AREA OF CLOSEST ACCESSIBLE CEILING.
18	CIRCUIT CONNECTION FOR TEMPERATURE CONTROL PANEL. VERIFY FINAL LOCATION IN FIELD WITH DIVISION 23 CONTRACTOR.
19	RECEPTACLE FOR DISPLAY MONITOR. COORDINATE MOUNTING HEIGHT WITH T-SERIES DRAWINGS.
20	POWER CONNECTION FOR ELEVATOR MOTOR. CONFIRM FINAL LOCATION WITH ELEVATOR EQUIPMENT MANUFACTURER.
21	FIRE ALARM ADDRESSABLE RELAYS FOR ELEVATOR RECALL FOR DESIGNATED FLOOR. ELEVATOR RECALL FOR ALTERNATE FLOOR AND ELEVATOR HAT LIGHT.
22	DISCONNECT SWITCH FOR ELEVATOR CAB LIGHTS. CONFIRM FINAL LOCATION WITH ELEVATOR EQUIPMENT MANUFACTURER.
23	RECEPTACLE FOR ELEVATOR PIT SUMP PUMP LOCATED AT +0" A.F.F. TO C.L.
24	QUADRUPLEX RECEPTACLE FOR SOUND RACK. COORDINATE LOCATION AND MOUNTING HEIGHT WITH T-SERIES DRAWINGS.
25	RADIANT PANEL. CONNECT TO CIRCUIT INDICATED. J-BOX BY RADIANT PANEL MANUFACTURER. REFER TO M-SERIES DRAWINGS.
26	RADIANT PANEL SYSTEM LOW VOLTAGE CONTROLLER.
27	RADIANT PANEL SYSTEM RELAY PANEL.
28	CIRCUIT CONNECTION FOR CARD READER.

POOL TIMING SCOPE:
THE DIVISION 26 CONTRACTOR BIDDING THIS PROJECT WILL PROVIDE ONLY ROUGH-INS (CONDUIT AND OUTLET BOXES), AS COORDINATED WITH AQUATICS PLAN AND CONTRACTOR IN ALL LOCATIONS. THE AQUATICS CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND TERMINATING ALL DEVICES, CONDUCTORS, EQUIPMENT AND SYSTEM PROGRAMMING AS REQUIRED FOR A COMPLETE OPERATIONAL SYSTEM.

FIRE ALARM SYSTEM SCOPE:
THE CONTRACTOR BIDDING THIS PROJECT WILL PROVIDE ONLY FIRE ALARM SYSTEM ROUGH-INS (CONDUIT AND OUTLET BOXES), IN ALL LOCATIONS AS INDICATED INCLUDING WALLS, CEILINGS, AREAS WITH NO CEILINGS, ETC. THE CONTRACTOR/FIRE ALARM VENDOR IN PHASE 1 WILL BE RESPONSIBLE FOR PROVIDING AND TERMINATING ALL DEVICES, CONDUCTORS, EQUIPMENT (SUCH AS NACS, ETC.) AND SYSTEM PROGRAMMING AS REQUIRED FOR A COMPLETE OPERATIONAL SYSTEM.

PROVIDE THE FOLLOWING RACEWAY ITEMS IN ROOM A122, NATATORIUM AND ROOMS A124/A124A POOL EQUIP/POOL CHEM AS REQUIRED:

-SCHEDULE 80 PVC CONDUIT OVERHEAD AND WITHIN WALLS FOR OUTLETS OPENING INTO THE ROOMS LISTED ABOVE. PROVIDE NON-METALLIC OUTLET BOXES.

-STAINLESS STEEL EXPANSION ANCHORS.

-STAINLESS STEEL CONDUIT AND CABLE SUPPORTS.

-STAINLESS STEEL CABLE FOR SUSPENDING LIGHT FIXTURES.

-NON-METALLIC COATINGS ON STEEL SLOTTED SUPPORT SYSTEMS.

2A **SECOND FLOOR POOL POWER PLAN - UNIT M**
1/8" = 1'-0"

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Produced JTH EAG

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#	Revision	Date
A1.1	Addendum #1	12.13.2021
A2.1	Addendum #2	01.04.2022

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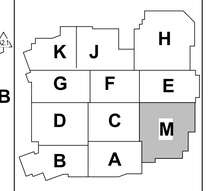
KEY PLAN



MSD OF LAWRENCE TOWNSHIP

POOL MEZZANINE POWER PLAN - UNIT M

EP1M2.1

LIGHTING CONTACTOR SCHEDULE

LABEL	LOCATION NUMBER	LOCATION NAME	VOLTAGE	COIL CIRCUIT PANEL	COIL CIRCUIT CIRCUIT	AMPERAGE	CONTROL	ENCLOSURE	NUMBER OF CONTACTS	CIRCUIT(S) CONTROLLED
LC-M1	NM100	ELEC	277 V	14M1	29	30 A	LIGHT TRUSS SWITCH LEG "a"	NEMA 1	12	14M1-1,5,9,13,17,21,25
LC-M2	NM100	ELEC	277 V	14M1	31	30 A	LIGHT TRUSS SWITCH LEG "b"	NEMA 1	12	14M1-3,7,11,15,19,23,27
LC-M3	NM100	ELEC	277 V	14M1	33	30 A	TEMPERATURE CONTROL SYSTEM	NEMA 1	4	14CLS1-24

GENERAL LIGHT FIXTURE SCHEDULE NOTES

#	NOTES
A	PROVIDE LAMPS FOR ALL LIGHT FIXTURES SPECIFIED.
B	REFER TO LIGHT FIXTURE SCHEDULE AND REFLECTED CEILING PLANS FOR MOUNTING REQUIREMENTS, CEILING TYPES, AND FINAL LOCATIONS. PROVIDE APPROPRIATE MOUNTING TRIM REQUIRED FOR CEILING TYPE.
C	PROVIDE FACTORY INSTALLED DISCONNECTS FOR ALL LINEAR FIXTURES.

TRANSFORMER SCHEDULE

LABEL	LOCATION NUMBER	LOCATION NAME	KVA	PHASE	VOLTAGE PRIMARY	VOLTAGE SECONDARY	CONNECTION PRIMARY	CONNECTION SECONDARY	MOUNT	TYPE	LOAD(S) SERVED
T-1M1	NM100	ELEC	225	3	480 V	208Y/120	DELTA	WYE	FLOOR	DRY	DISTRIBUTION PANELBOARD 120DPM1
T-1MLS1	NM100	ELEC	30	3	480 V	208Y/120	DELTA	WYE	FLOOR	DRY	PANELBOARD 24MLS1

DISCONNECT SWITCH SCHEDULE

LABEL	LOCATION NUMBER	LOCATION NAME	EQUIPMENT SERVED	VOLTAGE	AMPERAGE	POLES	FUSED	FUSE SIZE	NEMA ENCL	SOLID NEUTRAL
DS-1M1	A124	POOL EQUIP	PUH-M1	120 V	30 A	1	Yes	15 A	3R	Yes
DS-1M2	A124	POOL EQUIP	PUH-M2	120 V	30 A	1	Yes	15 A	3R	Yes
DS-1M3	AS110B	ELEV	ELEVATOR CAB LIGHTING	120 V	30 A	1	Yes	20 A	3R	Yes
DS-1M4	A124	POOL EQUIP	GAS FIRED POOL HEATER	120 V	30 A	1	Yes	20 A	3R	Yes
DS-1M5	A124	POOL EQUIP	GAS FIRED POOL HEATER	120 V	30 A	1	Yes	20 A	3R	Yes
DS-1M6	A124	POOL EQUIP	UV CONTROLLER AND LIGHT CHAMBER	208 V	30 A	2	Yes	30 A	3R	Yes
DS-1M7	A124	POOL EQUIP	UV CONTROLLER AND LIGHT CHAMBER	208 V	30 A	2	Yes	30 A	3R	Yes
DS-1M8	NM100	ELEC	SS-M1	208 V	30 A	2	Yes	20 A	1	No
DS-1M9	NM100	JDF	SS-M2	208 V	30 A	2	Yes	20 A	1	No
DS-1M10	NM100	ELEC	TRANSFORMER T-1MLS1	480 V	30 A	3	Yes	30 A	1	No
DS-2M1	AM212	MECH	AHU-1	480 V	400 A	3	Yes	300 A	1	No
DS-2M2	AM212	MECH	AHU-2	480 V	400 A	3	Yes	300 A	1	No
DS-2M3	AM212	MECH	HVL-1	120 V	30 A	1	Yes	15 A	1	Yes
DS-2M4	AM212	MECH	HVL-2	120 V	30 A	1	Yes	15 A	1	Yes
DS-2M5	AM212	MECH	HVL-3	120 V	30 A	1	Yes	15 A	1	Yes
DS-2M6	AM212	MECH	HVL-4	120 V	30 A	1	Yes	15 A	1	Yes
DS-2M7	AM212	MECH	FCU-1	208 V	30 A	2	Yes	15 A	1	No
DS-2M8	AM212	MECH	FCU-2	208 V	30 A	2	Yes	15 A	1	No
DS-2M9	A210	CUST	FCU-3	208 V	30 A	2	Yes	15 A	1	No
DS-2M10			CU-M1	208 V	60 A	2	Yes	35 A	3R	No
DS-2M13			CU-M2	208 V	60 A	2	Yes	35 A	3R	No
DS-2M14			AHU-M1	480 V	30 A	3	Yes	25 A	1	No
DS-2M15			PUH-M3	120 V	30 A	1	Yes	15 A	1	Yes
DS-2M16			FCU-4	208 V	30 A	2	Yes	15 A	1	No
DS-2M17			CU-1	480 V	30 A	3	Yes	30 A	3R	No
DS-2M18			CU-2	480 V	30 A	3	Yes	30 A	3R	No
DS-2M19	AM212	MECH	WH-4	120 V	30 A	1	Yes	20 A	1	Yes
DS-2M20	AM212	MECH	WH-5	120 V	30 A	1	Yes	20 A	1	Yes

MOTOR CONTROLLER/STARTER/VFD SCHEDULE

LABEL	LOCATION NUMBER	LOCATION NAME	EQUIPMENT SERVED	EQUIPMENT DATA VOLTAGE	EQUIPMENT DATA PHASE	EQUIPMENT DATA HP	EQUIPMENT DATA FLA	STARTER TYPE	STARTER NEMA SIZE	DISCONNECT SWITCH TYPE	DISCONNECT SWITCH FUSE SIZE	NEMA ENCL	REMOTE CAPACITOR	REMARKS
MS-1M1	A112	CONC	EF-M1	120 V	1	1/6	4.4 A	-	-	-	-	-	-	FRACTIONAL HORSEPOWER RATED TOGGLE SWITCH WITH THERMAL OVERLOADS
MS-1M2	A112	CONC	EF-M2	120 V	1	1/6	4.4 A	-	-	-	-	-	-	FRACTIONAL HORSEPOWER RATED TOGGLE SWITCH WITH THERMAL OVERLOADS
MS-1M3	A122D	STOR	EF-M4	120 V	1	1/4	5.8 A	-	-	-	-	-	-	FRACTIONAL HORSEPOWER RATED TOGGLE SWITCH WITH THERMAL OVERLOADS
MS-1M4	A124	STOR	EF-M5	120 V	1	1/6	4.4 A	-	-	-	-	-	-	FRACTIONAL HORSEPOWER RATED TOGGLE SWITCH WITH THERMAL OVERLOADS
MS-1M5	A124	POOL EQUIP	EF-M6	120 V	1	1/2	9.8 A	-	-	-	-	-	-	FRACTIONAL HORSEPOWER RATED TOGGLE SWITCH WITH THERMAL OVERLOADS
MS-1M6	A124	POOL EQUIP	EF-M7	120 V	1	3/4	13.8 A	-	-	-	-	-	-	FRACTIONAL HORSEPOWER RATED TOGGLE SWITCH WITH THERMAL OVERLOADS
MS-1M7	A112	CONC	EF-M8	120 V	1	1/6	4.4 A	-	-	-	-	-	-	FRACTIONAL HORSEPOWER RATED TOGGLE SWITCH WITH THERMAL OVERLOADS
MS-1M8	A124	POOL EQUIP	POOL FILTER CIRCULATION PUMP	480 V	3	30	40.0 A	VFD	-	-	-	-	-	VFD FURNISHED BY DIVISION 13, INSTALLED AND CONNECTED BY DIVISION 26.
MS-1M9	A124	POOL EQUIP	POOL FILTER CIRCULATION PUMP	480 V	3	30	40.0 A	VFD	-	-	-	-	-	VFD FURNISHED BY DIVISION 13, INSTALLED AND CONNECTED BY DIVISION 26.
MS-1M10	A124	POOL EQUIP	POOL AUXILIARY PUMP	480 V	3	30	40.0 A	VFD	-	-	-	-	-	VFD FURNISHED BY DIVISION 13, INSTALLED AND CONNECTED BY DIVISION 26.
MS-1M11	A124	POOL EQUIP	BUBBLER AIR COMPRESSOR	208 V	3	5	17.5 A	FVNR	1	FUSIBLE	25	4X	-	
MS-1M12	A124	POOL EQUIP	POOL HEATER CIRCULATING PUMP	120 V	1	3/4	13.8 A	-	-	-	-	-	-	FRACTIONAL HORSEPOWER RATED TOGGLE SWITCH WITH THERMAL OVERLOADS
MS-1M13	A124	POOL EQUIP	POOL HEATER CIRCULATING PUMP	120 V	1	3/4	13.8 A	-	-	-	-	-	-	FRACTIONAL HORSEPOWER RATED TOGGLE SWITCH WITH THERMAL OVERLOADS
MS-1M14	A124	POOL EQUIP	REGENERATIVE FILTER AIR COMPRESSOR AND RECEIVER	480 V	3	2	3.4 A	FVNR	1	FUSIBLE	6.25	4X	-	
MS-2M1	AM212	MECH	ERU-3 SUPPLY FAN	480 V	3	15	21.0 A	VFD	-	-	-	-	-	FURNISHED BY DIVISION 23, INSTALLED BY DIVISION 26
MS-2M2	AM212	MECH	ERU-3 RETURN FAN	480 V	3	7.5	11.0 A	VFD	-	-	-	-	-	FURNISHED BY DIVISION 23, INSTALLED BY DIVISION 26
MS-2M3	AM212	MECH	ERU-3 ENERGY WHEEL	480 V	3	1	2.1 A	VFD	-	-	-	-	-	FURNISHED BY DIVISION 23, INSTALLED BY DIVISION 26
MS-2M4	AM212	MECH	EF-M3	120 V	1	1/6	4.4 A	-	-	-	-	-	-	FRACTIONAL HORSEPOWER RATED TOGGLE SWITCH WITH THERMAL OVERLOADS
MS-2M5	AM212	MECH	ASF-1	120 V	1	1/6	4.4 A	-	-	-	-	-	-	FRACTIONAL HORSEPOWER RATED TOGGLE SWITCH WITH THERMAL OVERLOADS
MS-2M6	AM212	MECH	HWCP-4	480 V	3	5	7.6 A	VFD	-	-	-	-	-	FURNISHED BY DIVISION 22, INSTALLED BY DIVISION 26
MS-2M7	AM212	MECH	HWCP-5	480 V	3	5	7.6 A	VFD	-	-	-	-	-	FURNISHED BY DIVISION 22, INSTALLED BY DIVISION 26

LIGHTING FIXTURES SCHEDULE

FIXTURE	DESCRIPTION	VOLTAGE	SOURCE TYPE	SOURCE LUMENS	SOURCE WATTS	SOURCE CCT	MOUNTING	LENS/REFLECTOR	CERTIFICATIONS	ACCEPTABLE MANUFACTURERS	FIXTURE
L1	1X4 LED FLAT PANEL. 0-10V DIMMING.	120/277 V	LED	3,000 LM	25 W	3500 K	RECESSED IN GRID	WHITE FROST ACRYLIC	DLC	METALUX 14FP COLUMBIA CFP14 LITHONIA EPANL 14	L1
L1S	1X4 LED FLAT PANEL. 0-10V DIMMING. EMERGENCY SHUNT RELAY.	120/277 V	LED	3,000 LM	25 W	3500 K	RECESSED IN GRID	WHITE FROST ACRYLIC	DLC	METALUX 14FP COLUMBIA CFP14 LITHONIA EPANL 14	L1S
L3	1X4 LED FLAT PANEL. 0-10V DIMMING.	120/277 V	LED	4,500 LM	40 W	3500 K	RECESSED IN GRID	WHITE FROST ACRYLIC	DLC	METALUX 14FP COLUMBIA CFP14 LITHONIA EPANL 14 ENERGY HARNESS EHF-PANEL-1X4DS-45-277	L3
L4	2X2 LED FLAT PANEL. 0-10V DIMMING.	120/277 V	LED	2,200 LM	20 W	3500 K	RECESSED IN GRID	WHITE FROST ACRYLIC	DLC	METALUX 22FP COLUMBIA CFP22 LITHONIA EPANL 22	L4
L4S	2X2 LED FLAT PANEL. 0-10V DIMMING. EMERGENCY SHUNT RELAY.	120/277 V	LED	2,200 LM	20 W	3500 K	RECESSED IN GRID	WHITE FROST ACRYLIC	DLC	METALUX 22FP COLUMBIA CFP22 LITHONIA EPANL 22	L4S
L5	2X2 LED FLAT PANEL. 0-10V DIMMING.	120/277 V	LED	3,500 LM	30 W	3500 K	RECESSED IN GRID	WHITE FROST ACRYLIC	DLC	METALUX 22FP COLUMBIA CFP22 LITHONIA EPANL 22	L5
L5S	2X2 LED FLAT PANEL. 0-10V DIMMING. EMERGENCY SHUNT RELAY.	120/277 V	LED	3,500 LM	30 W	3500 K	RECESSED IN GRID	WHITE FROST ACRYLIC	DLC	METALUX 22FP COLUMBIA CFP22 LITHONIA EPANL 22	L5S
L7	2X4 LED FLAT PANEL. 0-10V DIMMING.	120/277 V	LED	3,600 LM	30 W	3500 K	RECESSED IN GRID	WHITE FROST ACRYLIC	DLC	METALUX 24FP COLUMBIA CFP24 LITHONIA EPANL 24	L7
L7S	2X4 LED FLAT PANEL. 0-10V DIMMING. EMERGENCY SHUNT RELAY.	120/277 V	LED	3,600 LM	30 W	3500 K	RECESSED IN GRID	WHITE FROST ACRYLIC	DLC	METALUX 24FP COLUMBIA CFP24 LITHONIA EPANL 24	L7S
L8	2X4 LED FLAT PANEL. 0-10V DIMMING.	120/277 V	LED	5,000 LM	40 W	3500 K	RECESSED IN GRID	WHITE FROST ACRYLIC	DLC	METALUX 24FP COLUMBIA CFP24 LITHONIA EPANL 24	L8
L8S	2X4 LED FLAT PANEL. 0-10V DIMMING. EMERGENCY SHUNT RELAY.	120/277 V	LED	5,000 LM	40 W	3500 K	RECESSED IN GRID	WHITE FROST ACRYLIC	DLC	METALUX 24FP COLUMBIA CFP24 LITHONIA EPANL 24	L8S
L10	2X4 LED FLAT PANEL. 0-10V DIMMING.	120/277 V	LED	6,600 LM	60 W	3500 K	RECESSED IN GRID	WHITE FROST ACRYLIC	DLC	METALUX 24FP COLUMBIA CFP24 LITHONIA EPANL 24	L10
L10S	2X4 LED FLAT PANEL. 0-10V DIMMING. EMERGENCY SHUNT RELAY.	120/277 V	LED	6,600 LM	60 W	3500 K	RECESSED IN GRID	WHITE FROST ACRYLIC	DLC	METALUX 24FP COLUMBIA CFP24 LITHONIA EPANL 24	L10S
L11	1X4 PRISMATIC LED TROFFER. WHITE FLUSH ALUMINUM DOOR. 0-10V DIMMING. U.L. LISTED WET LOCATION. GASKETED ON DOOR, LENS, AND HOUSING.	120/277 V	LED	2,900 LM	27 W	3500 K	RECESSED IN DRYWALL	PATTERN 12 FROST ACRYLIC LENS, 0.125" MINIMUM	DLC	METALUX 14GR COLUMBIA LJT14 LITHONIA GTL	L11
L11S	1X4 PRISMATIC LED TROFFER. WHITE FLUSH ALUMINUM DOOR. 0-10V DIMMING. U.L. LISTED WET LOCATION. GASKETED ON DOOR, LENS, AND HOUSING. EMERGENCY SHUNT RELAY.	120/277 V	LED	2,900 LM	27 W	3500 K	RECESSED IN DRYWALL	PATTERN 12 FROST ACRYLIC LENS, 0.125" MINIMUM	DLC	METALUX 14GR COLUMBIA LJT14 LITHONIA GTL	L11S
L12	4' LENSED LED STRIP LIGHT. 0-10V DIMMING. WHITE FINISH.	120/277 V	LED	2,600 LM	25 W	3500 K	SURFACE MOUNTED	SEMI-FROSTED LENS	N/A	METALUX SNLED COLUMBIA MPS LITHONIA ZL1D	L12
L13	4' LENSED LED STRIP LIGHT. 0-10V DIMMING. WHITE FINISH.	120/277 V	LED	5,400 LM	45 W	3500 K	SURFACE MOUNTED	SEMI-FROSTED LENS	N/A	METALUX SNLED COLUMBIA MPS LITHONIA ZL1D	L13
L13S	4' LENSED LED STRIP LIGHT. 0-10V DIMMING. WHITE FINISH. EMERGENCY SHUNT RELAY.	120/277 V	LED	5,400 LM	45 W	3500 K	SURFACE MOUNTED	SEMI-FROSTED LENS	N/A	METALUX SNLED COLUMBIA MPS LITHONIA ZL1D	L13S
L14	4' LENSED LED STRIP LIGHT. 0-10V DIMMING. WHITE FINISH.	120/277 V	LED	2,600 LM	25 W	3500 K	CHAIN MOUNTED TO STRUCTURE	SEMI-FROSTED LENS	N/A	METALUX SNLED COLUMBIA MPS LITHONIA ZL1D	L14
L15	4' LENSED LED STRIP LIGHT. 0-10V DIMMING. WHITE FINISH.	120/277 V	LED	5,400 LM	45 W	3500 K	CHAIN MOUNTED TO STRUCTURE	SEMI-FROSTED LENS	N/A	METALUX SNLED COLUMBIA MPS LITHONIA ZL1D	L15
L15S	4' LENSED LED STRIP LIGHT. 0-10V DIMMING. WHITE FINISH. EMERGENCY SHUNT RELAY.	120/277 V	LED	5,400 LM	45 W	3500 K	CHAIN MOUNTED TO STRUCTURE	SEMI-FROSTED LENS	N/A	METALUX SNLED COLUMBIA MPS LITHONIA ZL1D	L15S
L19	4" SQUARE LED DOWNLIGHT. SELF-FLANGED TRIM. 0-10V DIMMING.	120/277 V	LED	1,000 LM	11 W	3500 K	RECESSED IN DRYWALL	SEMI-SPECULAR CLEAR	ES	PORTFOLIO LDSQ4B PRESCOLITE LF4SQSL GOTHAM EVO	L19
L20	4" SQUARE LED DOWNLIGHT. SELF-FLANGED TRIM. 0-10V DIMMING.	120/277 V	LED	1,000 LM	11 W	3500 K	RECESSED IN GRID	SEMI-SPECULAR CLEAR	ES	PORTFOLIO LDSQ4B PRESCOLITE LF4SQSL GOTHAM EVO	L20
L21	4" SQUARE LED DOWNLIGHT. SELF-FLANGED TRIM. 0-10V DIMMING.	120/277 V	LED	1,500 LM	16 W	3500 K	RECESSED IN DRYWALL	SEMI-SPECULAR CLEAR	ES	PORTFOLIO LDSQ4B PRESCOLITE LF4SQSL GOTHAM EVO	L21
L21S	4" SQUARE LED DOWNLIGHT. SELF-FLANGED TRIM. 0-10V DIMMING. EMERGENCY SHUNT RELAY.	120/277 V	LED	1,500 LM	16 W	3500 K	RECESSED IN DRYWALL	SEMI-SPECULAR CLEAR	ES	PORTFOLIO LDSQ4B PRESCOLITE LF4SQSL GOTHAM EVO	L21S
L23S	4" SQUARE LED DOWNLIGHT. SELF-FLANGED TRIM. 0-10V DIMMING. EMERGENCY SHUNT RELAY.	120/277 V	LED	2,000 LM	22 W	3500 K	RECESSED IN DRYWALL	SEMI-SPECULAR CLEAR	ES	PORTFOLIO LDSQ4B PRESCOLITE LF4SQSL GOTHAM EVO	L23S
L35	6" ROUND LED DOWNLIGHT, WHITE TRIM TO MATCH REFLECTOR. U.L. LISTED WET LOCATION. PROVIDE COMPATIBLE HOUSING WITH HARDWIRED PIGTAIL.	120/277 V	LED	1,000 LM	12 W	3500 K	RECESSED IN DRYWALL	DIFFUSE IMPACT RESISTANT POLYCARBONATE LENS	N/A	HALO H750T PRESCOLITE LB6LEDA	L35
L36	4' LED VAPORTIGHT FIXTURE. FIBERGLASS HOUSING. U.L. LISTED WET LOCATION.	120/277 V	LED	4,000 LM	38 W	3500 K	SURFACE/WALL	IMPACT RESISTANT, GASKETED PRISMATIC LENS	N/A	METALUX 4VT2 COLUMBIA LXEM4 LITHONIA FEM4 LED	L36
L37	4"X3' EXTRUDED ALUMINUM LED PENDANT. 0-10V DIMMING.	120/277 V	LED	1125 LM	12 W	3500 K	PENDANT	FLUSH SATIN LENS	N/A	FOCAL POINT FSM4LS FINELITE HP4 PINNACLE EDGE	L37
L39	4"X5' EXTRUDED ALUMINUM LED PENDANT. 0-10V DIMMING.	120/277 V	LED	1875 LM	20 W	3500 K	PENDANT	FLUSH SATIN LENS	N/A	FOCAL POINT FSM4LS FINELITE HP4 PINNACLE EDGE	L39
L39S	4"X5' EXTRUDED ALUMINUM LED PENDANT. 0-10V DIMMING. EMERGENCY SHUNT RELAY.	120/277 V	LED	1875 LM	20 W	3500 K	PENDANT	FLUSH SATIN LENS	N/A	FOCAL POINT FSM4LS FINELITE HP4 PINNACLE EDGE	L39S
L41	4"X7' EXTRUDED ALUMINUM LED PENDANT. 0-10V DIMMING.	120/277 V	LED	2625 LM	28 W	3500 K	PENDANT	FLUSH SATIN LENS	N/A	FOCAL POINT FSM4LS FINELITE HP4 PINNACLE EDGE	L41
L50	16" DIAMETER LED HIGHBAY, WHITE POLYESTER POWDER COAT FINISH. ROUND, DECORATIVE SHIELD. WIDE DISTRIBUTION. 0-10V DIMMING.	120/277 V	LED	18,000 LM	162 W	4000 K			DLC	METALUX UHB COLUMBIA CRB LITHONIA JEBL	L50 A2.1
L50S	16" DIAMETER LED HIGHBAY, WHITE POLYESTER POWDER COAT FINISH. ROUND, DECORATIVE SHIELD. WIDE DISTRIBUTION. 0-10V DIMMING. EMERGENCY SHUNT RELAY.	120/277 V	LED	18,000 LM	162 W	4000 K			DLC	METALUX UHB COLUMBIA CRB LITHONIA JEBL	L50S
L59	LED WALL LIGHT. DIE-CAST ALUMINUM HOUSING. HINGED DOOR FRAME. DARK BRONZE FINISH. U.L. LISTED FOR WET LOCATIONS.	120/277 V	LED	2,200 LM	30 W	4000 K	WALL MOUNTED	TYPE III DISTRIBUTION	N/A	MCGRAW-EDISON ISS SPAULDING QSP LITHONIA WSQ	L59
L60	LED WALL LIGHT. DIE-CAST ALUMINUM HOUSING. HINGED DOOR FRAME. DARK BRONZE FINISH. U.L. LISTED FOR WET LOCATIONS.	120/277 V	LED	4,500 LM	50 W	4000 K	WALL MOUNTED	TYPE III DISTRIBUTION	N/A	MCGRAW-EDISON ISS SPAULDING QSP LITHONIA WSQ	L60
L61	4' LED VAPORTIGHT FIXTURE. FIBERGLASS HOUSING. U.L. LISTED WET LOCATION.	120/277 V	LED	4,000 LM	38 W	3500 K	SURFACE/CEILING	IMPACT RESISTANT, GASKETED PRISMATIC LENS	N/A	METALUX 4VT2 COLUMBIA LXEM4 LITHONIA FEM LED	L61
L61S	4' LED VAPORTIGHT FIXTURE. FIBERGLASS HOUSING. U.L. LISTED WET LOCATION. EMERGENCY SHUNT RELAY.	120/277 V	LED	4,000 LM	38 W	3500 K	SURFACE/CEILING	IMPACT RESISTANT, GASKETED PRISMATIC LENS	N/A	METALUX 4VT2 COLUMBIA LXEM4 LITHONIA FEM LED	L61S
L62	4" X 4' WALL MOUNTED, LINEAR, DIRECT LED FIXTURE. FLUSH LENS. NATATORIUM FINISH TO PREVENT RUST AND CORROSION. 0-10V DIMMING.	120/277V	LED	4,000 LM	47 W	3500 K	WALL	TEMPERED CLEAR GLASS	N/A	LUMENWERX VIA4 AXIS BEAM 4 A-LIGHT D3	L62
L62S	4" X 4' WALL MOUNTED, LINEAR, DIRECT LED FIXTURE. FLUSH LENS. NATATORIUM FINISH TO PREVENT RUST AND CORROSION. 0-10V DIMMING. EMERGENCY SHUNT RELAY.	120/277V	LED	4,000 LM	47 W	3500 K	WALL	TEMPERED CLEAR GLASS	N/A	LUMENWERX VIA4 AXIS BEAM 4 A-LIGHT D3	L62S
L63	LED WALL LIGHT. DIE-CAST ALUMINUM HOUSING. HINGED DOOR FRAME. DARK BRONZE FINISH. U.L. LISTED FOR WET LOCATIONS. INTEGRAL PHOTOCELL SWITCH.	120/277 V	LED	2,700 LM	30 W	4000 K	WALL MOUNTED	TYPE III DISTRIBUTION	N/A	MCGRAW-EDISON ISS SPAULDING QSP LITHONIA WSQ	L63
L64	4"X6' EXTRUDED ALUMINUM LED. 0-10V DIMMING.	120/277 V	LED	3,000 LM	30 W	3500 K	HORIZONTAL ON WALL	FLUSH SATIN LENS	DLC	FOCAL POINT FSM4LW FINELITE HP4WM PINNACLE Ex4D-WA	L64
L65	1X4 PRISMATIC LED TROFFER. WHITE FLUSH ALUMINUM DOOR. 0-10V DIMMING. U.L. LISTED WET LOCATION. GASKETED ON DOOR, LENS, AND HOUSING.	120/277 V	LED	2,900 LM	27 W	3500 K	RECESSED IN GRID	PATTERN 12 FROST ACRYLIC LENS, 0.125" MINIMUM	DLC	METALUX 14GR COLUMBIA LJT14 LITHONIA GTL	L65
L65S	1X4 PRISMATIC LED TROFFER. WHITE FLUSH ALUMINUM DOOR. 0-10V DIMMING. U.L. LISTED WET LOCATION. GASKETED ON DOOR, LENS, AND HOUSING. EMERGENCY SHUNT RELAY.	120/277 V	LED	2,900 LM	27 W	3500 K	RECESSED IN GRID	PATTERN 12 FROST ACRYLIC LENS, 0.125" MINIMUM	DLC	METALUX 14GR COLUMBIA LJT14 LITHONIA GTL	L65S
LT1	SUSPENDED LED TRUSS SYSTEM. EXTRUDED ALUMINUM TUBES, DIE-CAST ALUMINUM BULKHEADS, NATORIUM FINISH ON ALL PARTS. CUSTOM COLOR SELECTED BY A/E. PENDANT MOUNT WITH STAINLESS STEEL. SYSTEM WILL INCLUDE INTEGRAL OCCUPANCY SENSORS FOR THE POOL DECK, UL LISTED DAMP LOCATIONS.	277 V	LED	53,712 LM	761 W	4000 K	PENDANT	TEMPERED CLEAR GLASS	N/A	SPI LIGHT TRUSS PROVIDE AN ALLOWANCE OF $35,000 FOR MATERIAL ONLY. ADD'L LABOR REQUIRED FOR INSTALLATION. A1.1	LT1
X1C	LED EXIT LIGHT, MATTE BLACK DIE-CAST ALUMINUM HOUSING, BRUSHED ALUM. SINGLE FACE. STENCIL FACE, RED LETTERS. AC ONLY.	120/277 V	LED	N/A	5 W	N/A	UNIVERSAL	N/A	N/A	DUAL-LITE SE SURE-LITES CX LITHONIA LE	X1C
X1W	LED EXIT LIGHT, MATTE BLACK DIE-CAST ALUMINUM HOUSING, BRUSHED ALUM. SINGLE FACE. STENCIL FACE, RED LETTERS. AC ONLY	120/277 V	LED	N/A	5 W	N/A	UNIVERSAL	N/A	N/A	DUAL-LITE SE SURE-LITES CX LITHONIA LE	X1W
X2C	LED EXIT LIGHT, MATTE BLACK DIE-CAST ALUMINUM HOUSING, BRUSHED ALUM. DUAL FACE. STENCIL FACE, RED LETTERS. AC ONLY.	120/277 V	LED	N/A	5 W	N/A	UNIVERSAL	N/A	N/A	DUAL-LITE SE SURE-LITES CX LITHONIA LE	X2C
X2W	VANDAL PROOF LED EXIT LIGHT, DIE-CAST ALUMINUM HOUSING, BLACK FINISH. SINGLE FACE. STENCIL FACE, RED LETTERS. AC ONLY	120/277 V	LED	N/A	5 W	N/A	UNIVERSAL	VANDAL-RESISTANT POLYCARBONATE SHIELD WITH TAMPERPROOF SCREWS	N/A	DUAL-LITE SEWL SURE-LITES UX LITHONIA LV	X2W

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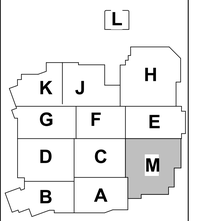
Produced JTH EAG

#	Revision	Date
A1.1	Addendum #1	12.13.2021
A2.1	Addendum #2	01.04.2022

7300 E 56th St.
Indianapolis, IN 46226

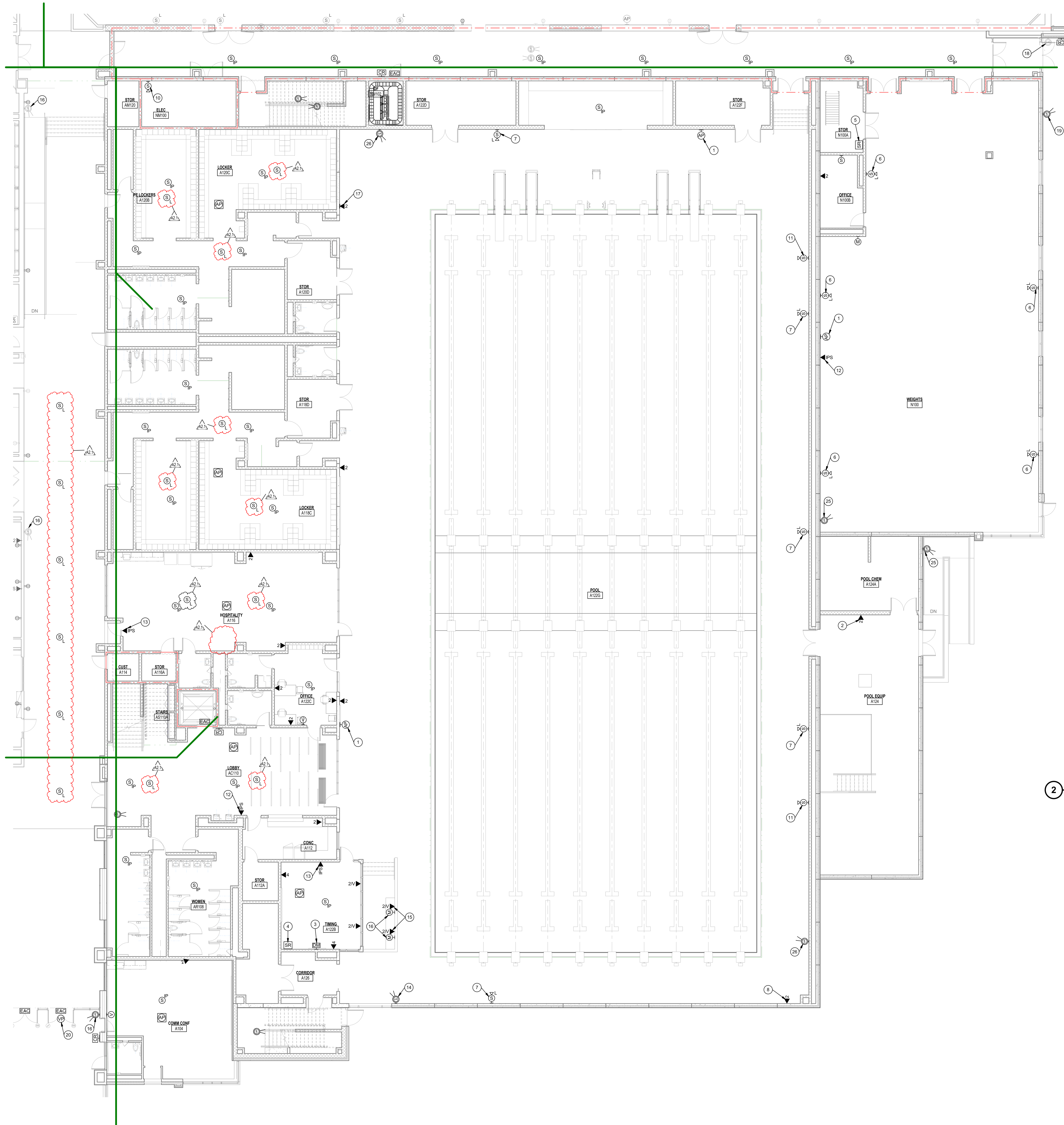


KEY PLAN

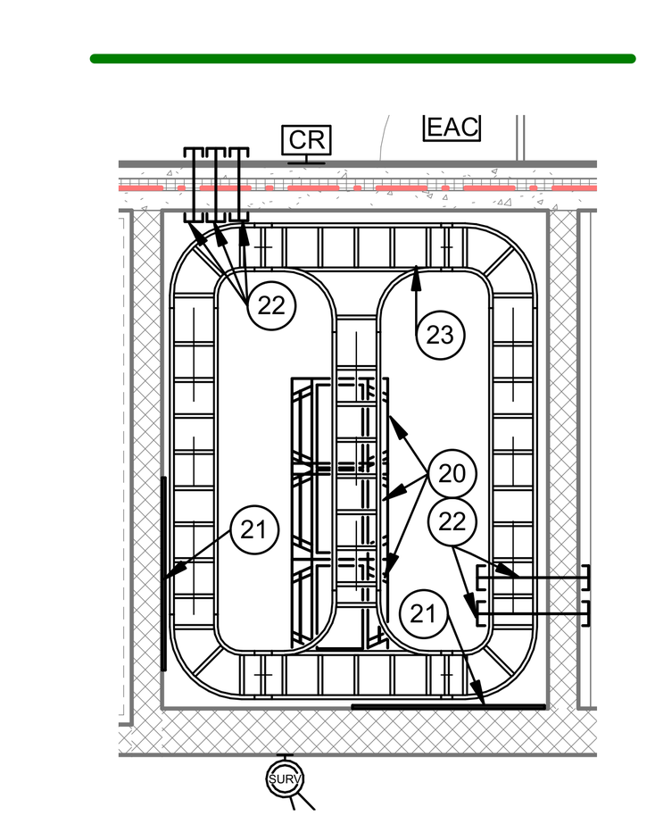
MSD OF LAWRENCE TOWNSHIP

LIGHTING & EQUIPMENT SCHEDULES

E-603.1



1 FIRST FLOOR TELECOMMUNICATIONS PLAN-UNIT M
1/8" = 1'-0"



2 ENLARGED FIRST FLOOR IDF NM102
1/4" = 1'-0"

GENERAL TELECOMMUNICATIONS NOTES

#	NOTES
A	REFER TO SHEET T-001 FOR ADDITIONAL INFORMATION.

TELECOMMUNICATIONS PLAN NOTES

#	NOTES
1	PROVIDE ROUGH IN 10' A.F.F. FOR WIRELESS ACCESS POINT.
2	PROVIDE DATA ROUGH IN 4' A.F.F FOR CHEMICAL CONTROLS EQUIPMENT.
3	PROVIDE DIGITAL DISPLAY MONITOR ROUGH IN 78" A.F.F.
4	PROVIDE SOUND RACK ROUGH IN 3' A.F.F. THE RACK WILL BE USED TO CONTROL AUDIO/VIDEO IN ROOM A122 (NATATORIUM)
5	PROVIDE SOUND RACK ROUGH IN 3' A.F.F. THE RACK WILL SERVER THE AUDIO FOR ROOM N104 (WEIGHTS)
6	PROVIDE LOCAL SOUND SPEAKER ROUGH IN 10' A.F.F. ROUTE SPEAKER CABLING TO SOUND RACK LOCATED IN N104A (STORAGE)
7	PROVIDE LOCAL SOUND SPEAKER ROUGH IN 12' A.F.F. ROUTE SPEAKER CABLING TO SOUND RACK LOCATED IN A122B (TIMING)
8	PROVIDE ROUGH IN 15' A.F.F FOR SCOREBOARD.
9	PROVIDE ROUGH IN 24' A.F.F. (POOL DECK) FOR OWNER PROVIDED, CONTRACTOR INSTALLED VIDEO SURVEILLANCE CAMERA.
10	PROVIDE INTERCOM SPEAKER HORN ROUGH IN 9' A.F.F.
11	PROVIDE INTERCOM SPEAKER HORN ROUGH IN 12' A.F.F. ROUTE SPEAKER CABLING TO SOUND RACK LOCATED IN A122B (TIMING)
12	PROVIDE IPS DEVICE ROUGH IN 10' A.F.F.
13	PROVIDE IPS DEVICE ROUGH IN 9' A.F.F.
14	PROVIDE ROUGH IN 8' A.F.F FOR VIDEO SURVEILLANCE CAMERA.
15	PROVIDE AUDIO VIDEO CONNECTIONS AND PATHWAY TO A/V RACK IN TIMING ROOM.
16	PROVIDE XLR CONNECTIONS AND PATHWAY TO A/V RACK IN TIMING ROOM.
17	PROVIDE ROUGH IN 46" A.F.F. FOR EMERGENCY PHONE. COORDINATE WITH OWNER ON FINAL ROUGH IN LOCATION.
18	PROVIDE VIDEO SURVEILLANCE CAMERA ROUGH IN 10' A.F.F.
19	PROVIDE VIDEO SURVEILLANCE CAMERA ROUGH IN 10' A.F.F.
20	OWNER PROVIDED RACK, CONTRACTOR INSTALLED.
21	PROVIDE AND WALL MOUNT 4' X 8' FIRE RATED PLYWOOD.
22	PROVIDE 4" CONDUIT SLEEVE ABOVE CEILING.
23	PROVIDE CABLE TRAY 8' A.F.F. AS SPECIFIED.
24	PROVIDE ROUGH IN 24' A.F.F. (POOL DECK) FOR LOCAL SOUND SYSTEM SPEAKER.
25	PROVIDE ROUGH IN 10' A.F.F FOR VIDEO SURVEILLANCE CAMERA.
26	PROVIDE ROUGH IN 12' A.F.F FOR VIDEO SURVEILLANCE CAMERA.
27	PROVIDE ROUGH IN 24' A.F.F. (POOL DECK) FOR OWNER PROVIDED, CONTRACTOR INSTALLED WIRELESS ACCESS POINT.

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Project Date 12/01/2021
Produced MD, JB

SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

#	Revision	Date
S15	SI #015	10.23.2020
A2.1	Addendum #2	01.03.2022

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K J H G F E D C M B A

KEY PLAN

MSD OF LAWRENCE TOWNSHIP

POOL ADDITION

TELECOMMUNICATIONS PLAN - UNIT M

TF1M1.1