TROY AQUATIC PARK MAINTENANCE IMPROVEMENTS

CITY OF TROY RECREATION

460 WEST STAUNTON DRIVE TROY,
OHIO 45373

BID SET - 04/10/26

OWNER:

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1650 WATERMARK DRIVE
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ALTERNATES

ALTERNATE 01:	PROVIDE ADDED COST (ADD ALTERNATE) TO PROVIDE PAINTING ON EXISTING PLAY STRUCTURE.
ALTERNATE 02:	PROVIDE ADDED COST (ADD ALTERNATE) TO PROVIDE INTERIOR GEL COAT RE-FINISH AND EXTERIOR UV RESISTANCE PAINT ON ALL SLIDES (DOUBLE FLUME AND DROP SLIDE AT LAP LANES)
ALTERNATE 03:	PROVIDE ADDED COST (ADD ALTERNATE) TO PROVIDE AND INSTALL ADA CHAIRLIFT.
ALTERNATE 04:	PROVIDE ADDED COST (ADD ALTERNATE) TO REMOVE EXISTING POOL DECK LOCKERS AND REPLACE WITH NEW AS SPECIFIED.
ALTERNATE 05:	PROVIDE ADDED COST (ADD ALTERNATE) TO REMOVE AND REPLACE EXISTING DOORS AT POOL MECHANICAL BUILDING WITH NEW FRP FRAMES AND DOORS. ADD ALTERNATE SHOULD ALSO INCLUDE THE NEW DOOR HARDWARE AS SPECIFIED.

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A0.10 SITE PLAN
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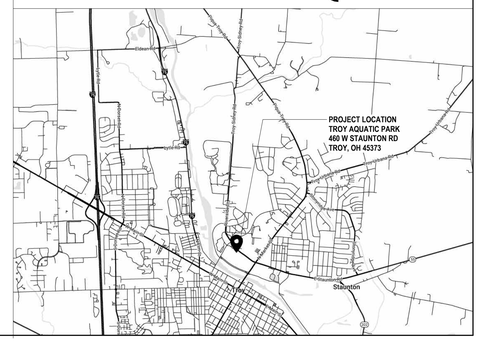
PL200 STRUCTURAL NOTES, PLAN(S) AND SCHEDULE
PL210 STRUCTURAL DETAILS
PL400 MECHANICAL EQUIPMENT PLAN
PL401 MECHANICAL DETAILS

VICINITY MAP



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NO.	DATE	ISSUED / REVISION
	01/09/26	DD SET
	04/10/26	BID SET

PROJECT NO. **25306.00**

DRAWING TITLE:
COVER SHEET

G0.00

CHECKED BY: Checker
DRAWN BY: Author
4/14/2026 6:26:52 AM
Autodesk Docs://25306.00_City of Troy Aquatic Park Improvements & Maintenance/25306.00 City of Troy Aquatic Park Improvements-Maintenance.rvt

GENERAL NOTES

CODE INFORMATION

CONTRACTOR SHALL COMPLY WITH ALL CODES, LAWS, ORDINANCES, RULES AND INDUSTRY REGULATIONS BEARING ON THE INSTALLATION OF THE WORK SHOWN HEREIN. ALL WORK IS TO BE INSTALLED TO MEET CURRENT CODE REQUIREMENTS. CONTRACTOR IS RESPONSIBLE FOR VERIFYING REQUIREMENTS PRIOR TO INSTALLING WORK. MAINTAIN ACCESS TO ALL REQUIRED EXITS FROM ALL AREAS.

DEFINITIONS OF TERMS

"FURNISH" MEANS "PROCURE AND DELIVER TO PROJECT SITE".
"PROVIDE" MEANS "FURNISH, INSTALL AND MAKE READY FOR USE".
"AS SELECTED" OR "AS DIRECTED" IMPLIES "BY OWNER OR ARCHITECT".

GENERAL

THE FOLLOWING OUTLINES THE GENERAL QUALITIES OF THE WORK EXPECTED. ALL MATERIALS USED ARE REQUIRED TO BE GOOD QUALITY AND MEET OR EXCEED ALL APPLICABLE INDUSTRY STANDARDS. WHERE SPECIFIC PRODUCTS OR MANUFACTURERS ARE NOT NOTED, THE CONTRACTOR IS REQUIRED TO NOTIFY ARCHITECT TO OBTAIN A STANDARD OF QUALITY.

ALL WORK IS TO BE DONE WITH THE APPROPRIATE TOOLS AND MATERIALS. THE ARCHITECT HAS THE RIGHT TO REJECT ANY WORK NOT DONE APPROPRIATELY. ALL CUTTING, PATCHING, REFINISHING AND REPAINTING OF ALL WORK IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR ALL SECURITY OF HIS MATERIALS, EQUIPMENT AND TOOLS.

ALL MATERIALS, PRODUCTS AND SYSTEMS SHALL BE FABRICATED AND INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S/FABRICATOR'S INSTRUCTIONS, RECOMMENDATIONS AND SPECIFICATIONS, INCLUDING BUT NOT LIMITED TO THE USE OF ATTACHMENTS, ACCESSORIES, PRIMERS, SEALERS, CONTROL JOINTS, ETC., UNLESS OTHERWISE SPECIFICALLY NOTED IN THESE DRAWINGS. CONTRACTOR (OR THE INSTALLER, FABRICATOR, MANUFACTURER OR SUPPLIER OF SUCH ITEM) SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN THE PRODUCT INSTALLATION REQUIREMENTS AND THE DRAWINGS. PERFORMING WORK MEANS ACCEPTANCE OF EXISTING CONDITIONS AND SUBSTRATE WORK. DO NO WORK UNTIL CONDITIONS ARE ACCEPTABLE. SHOULD DISCREPANCIES EXIST BETWEEN THE INFORMATION SHOWN IN THESE DRAWINGS/NOTES AND THE MANUFACTURER'S INFORMATION, THE ARCHITECT SHALL BE NOTIFIED PRIOR TO COMMENCEMENT OF THE WORK IN QUESTION FOR REVIEW AND COORDINATION.

CONTRACTOR IS TO PROTECT ALL FINISHED SURFACES FROM DIRT AND DAMAGE UNTIL FINAL ACCEPTANCE BY OWNER. MATERIALS DAMAGED DURING CONSTRUCTION ARE TO BE REPAIRED/REPLACED AT CONTRACTOR'S COST TO THE SATISFACTION OF THE OWNER.

CONTRACTOR SHALL MAINTAIN RECORD DOCUMENTS THROUGHOUT THE COURSE OF THE WORK. NOTE ALL CHANGES AND SHOW ALL UNDERGROUND OR CONCEALED UTILITIES. SUBMIT RECORD DRAWINGS AT PROJECT COMPLETION.

CONSTRUCTION AND SAFETY

CONTRACTOR AND/OR CONTRACTOR'S AGENT(S) SHALL VERIFY ALL DIMENSIONS AND INFORMATION IN THESE DRAWINGS. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS. ANY ERRORS, INCONSISTENCIES OR OMISSIONS SHALL BE REPORTED TO THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK. ANY CHANGES FROM THESE DOCUMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. THESE DRAWINGS ARE NOT TO BE SCALED. WHENEVER POSSIBLE, CONDITIONS WHICH ARE SUBJECT TO MODIFICATION OR CHANGE ARE SHOWN AS EXISTING. CONTRACTORS SHALL INSPECT THE EXISTING CONDITIONS AND PROVIDE MODIFICATIONS TO MEET GOVERNING CODES AND PERFORMANCE SPECIFICATIONS, WHETHER OR NOT SPECIFICALLY INDICATED IN THE DRAWINGS. IF INSUFFICIENT INFORMATION EXISTS, CONTACT THE ARCHITECT / ENGINEER FOR CLARIFICATION.

IF, IN THE CONTRACTOR'S OPINION, ANY WORK IS INDICATED ON THE DRAWINGS OR IS SPECIFIED IN SUCH A MANNER AS WILL MAKE IT IMPOSSIBLE TO PRODUCE FIRST CLASS WORK, OR IF THE WORK OF A PREVIOUS TRADE SHOULD MAKE FIRST CLASS WORK IMPOSSIBLE FOR ANOTHER TRADE, THE CONTRACTOR SHALL REFER THE PROBLEM TO THE ARCHITECT FOR INTERPRETATION BEFORE PROCEEDING WITH THE WORK. ALL DIMENSIONS ON THE DRAWINGS ARE TO BE CONFIRMED BY THE CONTRACTOR. ANY DISCREPANCIES ARE TO BE RESOLVED BY ARCHITECT PRIOR TO EXECUTION OF WORK.

THE ARCHITECT / ENGINEER SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION SELECTED BY THE CONTRACTOR.

THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. WHEN ON SITE, THE ARCHITECT / ENGINEER SHALL BE RESPONSIBLE FOR HIS/HER OWN SAFETY BUT HAS NO RESPONSIBILITY FOR THE SAFETY OF ANOTHER PERSONNEL OR SAFETY CONDITIONS AT THE SITE.
ALL CUTTING, PATCHING, REFINISHING AND REPAINTING OF ALL WORK IS THE RESPONSIBILITY OF THE CONTRACTOR.

THE CONTRACTOR IS RESPONSIBLE FOR ALL SECURITY OF HIS MATERIALS, EQUIPMENT AND TOOLS.

CONTRACTOR IS TO PROTECT ALL FINISHED SURFACES FROM DIRT AND DAMAGE UNTIL FINAL ACCEPTANCE BY OWNER. MATERIALS DAMAGED DURING CONSTRUCTION ARE TO BE REPAIRED/REPLACED AT CONTRACTOR'S COST TO THE SATISFACTION OF THE OWNER.

CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES AND SHALL PROTECT AND SUPPORT THEM AS REQUIRED.

FIRE BLOCKING AND DRAFT STOPPING SHALL BE INSTALLED IN ALL LOCATIONS REQUIRED BY OBC SECTION 716. MAINTAIN ALL FIRE RATINGS IN NEW AND EXISTING CONSTRUCTION.

COMPLETED WORK SHALL BE STRUCTURALLY SOUND, FULLY OPERATIONAL, INSTALLED PLUMB, LEVEL AND SQUARE, SHALL BE FINISHED, CLEANED, POLISHED AND READY FOR OCCUPANCY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY AND ALL DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES.

CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF EXISTING CONSTRUCTION AND FOR DAILY CLEAN UP FOLLOWING WORK PERFORMED IN OCCUPIED AREAS. PERFORM FINAL CLEANING AT THE END OF EACH PHASE OF WORK. REMOVE ALL TRASH AND DEBRIS FROM THE SITE. WASH ALL TILE, LAMINATE AND GLASS SURFACES, PLUMBING FIXTURES, ETC. DUST AND SWEEP TO REMOVE ALL DIRT. REMOVE ALL TEMPORARY LABELS. PROJECT IS TO BE COMPLETED, CLEAN AND IN MOVE IN CONDITION. REMOVE ALL UNUSED MATERIALS, TRASH DEBRIS, TOOLS AND EQUIPMENT FROM THE SITE.

CONTRACTORS SHALL BE RESPONSIBLE FOR REPAIR OF ANY DAMAGE TO ALL BUILDING SPACES CAUSED BY THEIR ACTIONS OR NEGLECT.

STREETS, DRIVEWAYS, UNDERGROUND SERVICES, ETC. DAMAGE IN ANY WAY ATTRIBUTABLE TO CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITIONS.

DIMENSION NOTES:
A. ALL EXTERIOR DIMENSIONS ARE TO FACE OF FOUNDATION AND/OR FACE OF STUD.
B. ALL INTERIOR DIMENSIONS ARE TO FACE SHEATHING UNLESS OTHERWISE NOTED.

THE CONTRACTOR IS RESPONSIBLE TO PROVIDE AND MAINTAIN ALL NECESSARY TEMPORARY BARRICADES, SHORING AND LIGHTING. CONTRACTOR IS TO ERECT DUST BARRICADES TO PROTECT OCCUPIED AREAS OF THE BUILDING DURING DEMOLITION AND CONSTRUCTION. COORDINATE WITH OWNER FOR APPROVAL OF BARRIER LOCATIONS PRIOR TO ERECTION OF BARRIERS. THE CONTRACTOR SHALL PROVIDE AND INSTALL BARRICADES AND TEMPORARY SIGNAGE, AS REQUIRED TO DIRECT OCCUPANT FLOW AS REQUIRED AND TO ESTABLISH ROUTES OF EGRESS FOR EMPLOYEES. CONTRACTOR SHALL EMPLOY OTHER MEANS AS SITE CONDITIONS MAY REQUIRE. TEMPORARY DUST BARRIERS, UNLESS EQUIVALENT BARRIERS CAN BE PROVIDED, SHALL BE SEALED, FULLY TAPED, DOUBLE LAYERS OF 4 MIL MINIMUM PLASTIC SHEET WITH STAGGERED JOINTS ON TEMPORARY FRAMING.

ALL EARTHWORK, EXCAVATION, BACKFILLING AND EROSION CONTROL OPERATIONS SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT FOR THIS PROJECT.

BUILDING ENVELOPE THERMAL PERFORMANCE AND ALL MECHANICAL, ELECTRICAL AND PLUMBING DESIGN SHALL COMPLY WITH ASHRAE 90.1-89.

MISCELLANEOUS METALS

ALL STEEL EXPOSED TO THE WEATHER OR AS NOTED TO BE GALVANIZED SHALL BE HOT-DIP PROCESS AFTER FABRICATION AND IN ACCORDANCE WITH SPECIFICATION OF THE AMERICAN HOT DIP GALVANIZER'S ASSOCIATION, INC., USING HIGH GRADE PURE ZINC COATING FREE FROM BLISTERS AND OTHER IMPERFECTIONS.

ROUGH CARPENTRY

ALL CONNECTION HARDWARE SPECIFIED AS MANUFACTURED BY THE SIMPSON STRONG-TIE COMPANY SHALL BE FASTENED AS SPECIFIED BY THE SIMPSON PRODUCT AND INSTRUCTION MANUAL.

EXTERIOR WOOD TRIM

ALL EXTERIOR WOOD TRIM SHALL BE MARKED REDWOOD CLEAR ALL HEART GRADE, VERTICAL GRAIN, CERTIFIED KILN DRIED, SMOOTH FACE EXPOSED. NAILS SHALL BE STAINLESS STEEL SIDING NAILS. BACK PRIME AND PRIME ALL CUTS. PRIMER SHALL BE COMPATIBLE WITH FINAL PAINT FINISH.

FLEXIBLE FABRIC FLASHINGS

FLEXIBLE FABRIC FLASHINGS FOR CONCEALED LOCATIONS SHALL BE 30 MIL RUBBERIZED ASPHALT SELF-ADHESIVE SHEET FLASHING UNDERLAYMENT, "PERM-A-BARRIER" BY W.R. GRACE & CO. OR EQUAL. INSTALL PRIMERS AND SCORE SUBSTRATES WHERE REQUIRED BY MANUFACTURER.

INSULATION

INSTALL 6 MIL POLY VAPOR BARRIER ON WARM SIDE OF INSULATION AT EXTERIOR WALLS.

INSULATION AND R- VALUE REQUIREMENTS SHALL BE AS FOLLOWS:
A. EXTERIOR STUD WALLS: R-19 MINIMUM, FIBERGLASS BATT INSULATION
B. SLAB-ON GRADE: R-10 MINIMUM, 2" RIGID INSULATION CONTINUOUS AT PERIMETER, MINIMUM 24" WIDE
D. ATTIC: R-30 MINIMUM, FIBERGLASS BATT INSULATION
E. FLAT ROOFS: R-15 MINIMUM RIGID INSULATION.

DOORS, FRAMES & HARDWARE

ALL DOORS SHALL PERMIT FREE PASSAGE IN DIRECTION OF EGRESS TRAVEL AT ALL TIMES WITHOUT USE OF A KEY, SPECIAL KNOWLEDGE OR EFFORT. ALL DOORS SHALL CONFORM TO OBC 1003.3.1. ALL DOORS AND HARDWARE SHALL BE ADAAG COMPLIANT. ALL LOCKSETS / LATCHSETS TO HAVE LEVER HANDLES AND BE ALWAYS ACTIVE IN THE DIRECTION OF EGRESS TRAVEL. ALL DOORS SHALL BE 3'-0" X 7'-0" UNLESS OTHERWISE NOTED. INSTALL ALL NECESSARY HARDWARE FOR COMPLETE INSTALLATION INCLUDING STOPS, TRIM, ESCUTCHEONS PLATES, ROSETTES, ETC. INSTALL FIRE RATED DOORS AND FRAMES AS INDICATED ON THE DRAWINGS AND WHERE OTHERWISE REQUIRED IN RATED WALL AND PARTITION ASSEMBLIES.

PAINTING, STAINING, & WALL COVERING

WALL FINISHES IN PROJECT AREAS SHALL BE MINIMUM CLASS C (FLAMESPREAD 0 200, SMOKE DEVELOPED 0-450) PER ASTM E84. WALL FINISHES IN EXIT ACCESS CORRIDORS SHALL BE MINIMUM CLASS B (FLAMESPREAD 0 75, SMOKE DEVELOPED 0-450).

NEW CONSTRUCTION SHALL BE PRIME PAINTED WITH ONE COAT PRIMER. TINT PRIMER TOWARDS FINAL COAT COLOR. NEW MATERIALS SHALL RECEIVE TWO FINISH COATS, UNLESS SUCCESSIVE COATS ARE REQUIRED FOR PROPER COLORATION. EXISTING SURFACES SCHEDULED TO BE PAINTED SHALL RECEIVE A MINIMUM OF ONE FINISH COAT, UNLESS SUCCESSIVE COATS ARE REQUIRED FOR PROPER COLORATION. STRICTLY FOLLOW PAINT MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS FOR PAINT SELECTION, SURFACE PREPARATION AND APPLICATION. ALL EXPOSED SURFACES, EXCEPT FOR PRE-FINISHED MATERIALS, SHALL BE PAINTED UNLESS OTHERWISE NOTED.

ALL WALLS SCHEDULED TO RECEIVE WALL COVERING SHALL BE PRIMED WITH LATEX BASED PRIMER.

PROVIDE WALL COVERING WHERE NOTED. CONTRACTOR TO PROVIDE WALL COVERING, ADHESIVE AND ALL OTHER MATERIALS. WALL COVERING ADHESIVES SHALL BE TYPES APPROVED BY THE WALL COVERING MANUFACTURER FOR USE WITH ITS PRODUCTS. WALL COVERING TO CONFORM WITH OBC TABLE 803.5.

INSTALL FRP PANELS AT WALLS AT ALL JANITOR'S CLOSET MOP SINKS.

MECHANICAL, ELECTRICAL AND PLUMBING

CONTRACTOR SHALL INSPECT THE EXISTING HVAC, PLUMBING AND ELECTRICAL SYSTEMS WHICH MAY INTERFERE WITH THE NEW WORK (I.E. EXHAUST VENTS, OUTLETS, LIGHT FIXTURES) AND SHALL REMOVE, REPLACE AND/OR MODIFY SUCH AS REQUIRED FOR NEW WORK AND TO CONFORM TO ALL APPLICABLE CODES AND REGULATIONS. REVIEW AND COORDINATE SUCH WORK WITH THE ARCHITECT AND OWNER PRIOR TO CONSTRUCTION.

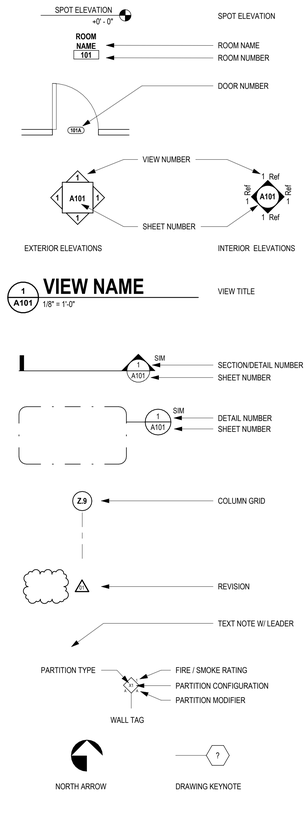
PLUMBING WORK

INSTALL ALL PLUMBING FIXTURES IN ACCORDANCE WITH APPLICABLE ADAAG REQUIREMENTS. INSTALL TRAP-WRAP INSULATION AT ALL EXPOSED PIPING AT LAVATORIES.

FINAL CLEANING

PERFORM FINAL CLEANING AT THE END OF EACH PHASE OF WORK. FINAL CONSTRUCTION CLEANING PRIOR TO TURNING OVER COMPLETED AREAS TO THE OWNER, CONTRACTOR SHALL CLEAN THE ENTIRE WORK AREA. REMOVE ALL TRASH AND DEBRIS FROM THE SITE. REMOVE ALL UNUSED MATERIALS, TRASH DEBRIS, TOOLS AND EQUIPMENT FROM THE SITE. CONTRACTOR SHALL REMOVE ALL TRACES OF SOIL, STAINS, DIRT, WASTE, MATERIALS, SMUDGES AND OTHER FOREIGN MATTER FROM ALL FINISHED SURFACES, AND CLEAN ALL EQUIPMENT AND FIXTURES TO AN ACCEPTABLE CONDITION. CONTRACTOR SHALL CLEAN TRANSPARENT MATERIALS, INCLUDING MIRRORS AND GLASS IN DOORS, WINDOWS, AND CASEWORK TO A POLISHED CONDITION, FREE OF DUST, PUTTY, FILMS OR SIMILAR SUBSTANCES WHICH ARE NOTICEABLE AND VISION OBSCURING. CONTRACTOR SHALL DUST AND VACUUM ENTIRE AREAS. REMOVE ALL TEMPORARY LABELS. CONTRACTOR SHALL STRIP AND WAX ANY VINYL COMPOSITION TILE OR SHEET VINYL FLOOR SURFACES. LIGHT LENSES AND SUPPLY AIR DIFFUSERS SHOULD BE FREE OF DUST AND DIRT. FINAL APPROVAL OF CLEANUP SHOULD BE GIVEN BY ARCHITECT PRIOR TO OWNER'S MOVE IN.

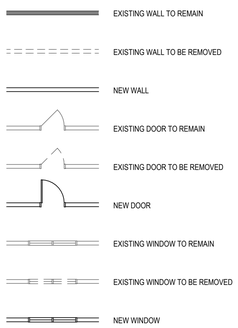
SYMBOLS



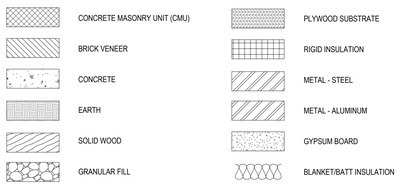
ARCHITECTURAL ABBREVIATIONS

A		FE	FIRE EXTINGUISHER	P	
ACP	ACOUSTICAL CEILING PANEL	FEB	FIRE EXTINGUISHER AND WALL BRACKET	%	PERCENT
ADA	AMERICAN DISABILITIES ACT (ACCESSIBILITY GUIDELINES)	FEC	FIRE EXTINGUISHER CABINET	+/- or ±	PLUS OR MINUS
		FFE	FURNITURE, FIXTURES AND EQUIPMENT	PF	PRE-FINISHED
ADJ	ADJACENT / ADJUSTABLE	FH	FIRE HYDRANT	PLAM	PLASTIC LAMINATE
AFF	ABOVE FINISHED FLOOR	FIN	FINISH	PLYWD	PLYWOOD
AL	ALUMINUM	FLR	FLOOR	PSF	POUNDS PER SQUARE FOOT
ALT	ALTERNATE	FRP	FIBERGLASS REINFORCED PLASTIC	PSI	POUNDS PER SQUARE INCH
AN	ANODIZED	FRT	FIRE RETARDANT TREATED	PT	PAINT
APPROX	APPROXIMATE	FT	FEET / FOOT	PWG	POLISHED WIRE GLASS
ARCH	ARCHITECT	FTG	FOOTING	Q	
AVG	AVERAGE	FWC	FABRIC WALL COVERING	QT	QUARRY TILE
B		G		R	
B/	BOTTOM OF	G	GAS	R	RADIUS / RISER
B/M	BENCH MARK	GA	GAUGE / GAGE	R/W	RIGHT OF WAY
B/S	BOTH SIDES	GALV	GALVANIZED	RB	RESILIENT BASE
B/W	BOTH WAYS	GC	GENERAL CONTRACTOR	RCB	RESILIENT COVE BASE
BD	BOARD	GFCI	GROUND FAULT CIRCUI INTERRUPTER	RD	ROOF DRAIN
BLDG	BUILDING	GL	GLASS	REF	REFERENCE
BLKG	BLOCKING	GLMU	GLASS MASONRY UNIT	REINF	REINFORCEMENT
BP	BID PACKAGE	GRD	GRADE	REQD	REQUIRED
BRG	BEARING	GYP	GYPSUM	RGL	REFLECTIVE GLAS
BSMT	BASEMENT	GYP BD	GYPSUM BOARD	RM	ROOM
C		H		RO	ROUGH OPENING
CB	CATCH BASIN	H	HIGH	RR	RESTROOM
CBB	CEMENT BACKER BOARD	H/P	HIGH POINT	RSB	RESILIENT STRAIGHT BASE
CC	CORNER GUARD	HB	HOSE BIB	RSF	RESILIENT SHEET FLOORING
CFT	CERAMIC FLOOR TILE	HDW	HARDWARE	S	
CGL	CLEAR GLASS	HM	HOLLOW METAL	S	SOUTH
CJ	CONTROL JOINT	HR	HOUR	SAN	SANITARY SEWER
CL	CENTERLINE	HT	HEIGHT	SCW	SOLID CORE WOOD
CLG	CEILING	HVAC	HEATING, VENTILATING & AIR CONDITIONING	SECT	SECTION
CMU	CONCRETE MASONRY UNIT			SF	SQUARE FEET
CO	CLEANOUT	HVC	HOSE VALVE CABINET	SHT	SHEET
COL	COLUMN	HVEC	HOSE VALVE AND EXTINGUISHER CABINET	SIM	SIMILAR
CONC	CONCRETE	I		SP	SPACES
CONST	CONSTRUCTION	ID	INSIDE DIAMETER	SPEC	SPECIFICATION
CONST JT	CONSTRUCTION JOINT	IN	INCH	SQ	SQUARE
CONT	CONTIUOUS	INSUL	INSULATION	SS	STAINLESS STEEL
CPT	CARPET	INT	INTERIOR	STC	SOUND TRANSMISSION COEFFICIENT
CPTL	CARPET TILE	INV	INVERT	STD	STANDARD
CT	CERAMIC TILE	L		STL	STEEL
CTG	CLEAR TEMPERED GLASS	L	LONG	STOR	STORAGE
CTR	CONTRACTOR	L/P	LOW POINT	STS	STORM SEWER
CUH	CABINET UNIT HEATER	LAV	LAVATORY	SUSP	SUSPENDED
D		LBS	POUNDS	SV	SHEET VINYL
D	DEEP	LF	LINEAL FOOT	SVCB	SHEET VINYL INTEGRAL COVE BASE
DEMO	DEMOLITION	LL	LIVE LOAD #	SYM	SYMMETRICAL
DET	DETAIL	LLH	LONG LEG HORIZONTAL	T	
DF	DRINKING FOUNTAIN	LLV	LONG LEG VERTICAL	T&G	TONGUE AND GROOVE
DIA	DIAMETER	M		T/	TOP OF
DIM	DIMENSION	MATL	MATERIAL	T/M	TOP OF MASONRY
DN	DOWN	MAX	MAXIMUM	T/S	TOP OF STEEL
DS	DOWNSPOUT	MDF	MEDIUM DENSITY FIBERBOARD	T/W	TOP OF WALL
DW	DUMBWAITER	MDO	MEDIUM DENSITY OVERLAY	THRU	THROUGH
DWG	DRAWING	MECH	MECHANICAL	TR	TREAD
E		MFR	MANUFACTURER	TRZO	TERRAZZO
E	EAST	MH	MANHOLE	TS	TUBE STEEL
E/F	EACH FACE	MIN	MINIMUM / MINUTES	TYP	TYPICAL
E/W	EACH WAY	MISC	MISCELLANEOUS	U	
EA	EACH	MO	MASONRY OPENING	UC	UNDERCOUNTER
ECA	EXTERIOR CEILING/SOFFIT ASSEMBLY	MTD	MOUNTED	UNO	UNLESS NOTED OTHERWISE
EFS	EXTERIOR FINISH SYSTEM	MTL	METAL	V	
EG	END GUARD	N		VCT	VINYL COMPOSITION TILE
EIFS	EXTERIOR INSULATION AND FINISH SYSEM	N	NORTH	VERT	VERTICAL
EJ	EXPANSION JOINT	NIC	NOT IN CONTRACT	VEST	VESTIBULE
EL	ELEVATION	NO. / #	NUMBER	VIF	VERIFY IN FIELD
ELEC	ELECTRIC	NOM	NOMINAL	VT	VINYL TILE
ELEV	ELEVATOR	NRC	NOISE REDUCTION COEFFICIENT	VWC	VINYL WALL COVERING
EQ	EQUAL	NTS	NOT TO SCALE	W	
EQUIP	EQUIPMENT	O		W	WEST
ERA	EXTERIOR ROOF ASSEMBLY	OC	ON CENTER	W/	WITH
EWA	EXTERIOR WALL ASEEMBLY	OD	OUTSIDE DIAMETER	W/O	WITHOUT
EWC	ELECTRIC WATER COOLER	OFCI	OWNER FURNISHED AND CONTRACTOR INSTALLED	W/P	WORKING POINT
EXIST	EXISTING	OFOI	OWNER FURNISHED AND OWNER INSTALLED	WB	WOOD BASE
EXP	EXPOSED			WC	WATER CLOSET
EXP	EXPANSION	OGL	OBSECURED GLASS	WD	WOOD
EXST	EXISTING	OH	OVERHEAD	WTR	WATER
F		OPP	OPPSITE HAND	WWF	WELDED WIRE FABRIC
FD	FLOOR DRAIN / FIRE DAMPER				

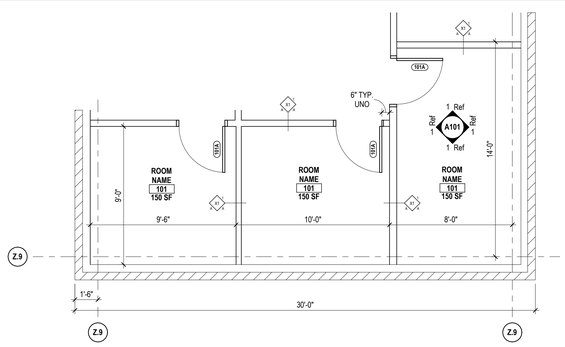
PHASING LEGEND



MATERIALS



DIMENSIONING NOTES



1. DIMENSIONS ARE TO COMMON REFERENCE OF EXTERIOR FACE OR TO COLUMN LINES.
2. SLASHES HAVE BEEN USED IN LIEU OF ARROWHEADS. DOTS MAY BE USED IN VERY TIGHT CONDITIONS.
3. DIMENSIONS TO ACTUAL SIZE (1/8" A.C.C.)
4. DIMENSIONS ARE TO FINISH SIDE OF PARTITION. PARTITION TYPE WILL INDICATE WALL THICKNESS.
5. WHERE SPACES PERMITS, DIMENSION LINES EXTEND THRU ENTIRE PLAN.
6. CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND IMMEDIATELY REPORT ANY DISCREPANCIES TO THE ARCHITECT.
7. DO NOT SCALE DRAWINGS
8. LARGE SCALE DRAWINGS GOVERN OVER SMALE SCALE DRAWINGS.

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TROY AQUATIC PARK MAINTENANCE IMPROVEMENTS

CITY OF TROY RECREATION
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PROJECT NO. **25306.00**

DRAWING TITLE:
ARCHITECTURAL STANDARDS & GENERAL NOTES

G0.10

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ACCESSIBILITY GUIDELINES

(REFER TO APPLICABLE LOCAL BUILDING CODE, 2010 ADA REGULATIONS, ANSI A117.1 2009 - ALTERATIONS AND CHANGE OF OCCUPANCY, & ANSI A117.1 2017 - NEW CONSTRUCTION AND ADDITIONS)

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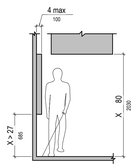


Figure 1
Limits of Protruding Objects

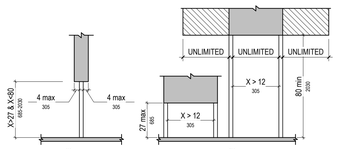


Figure 2
Post-Mounted Protruding Objects

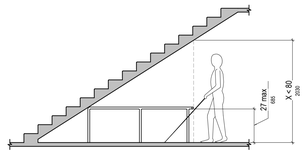
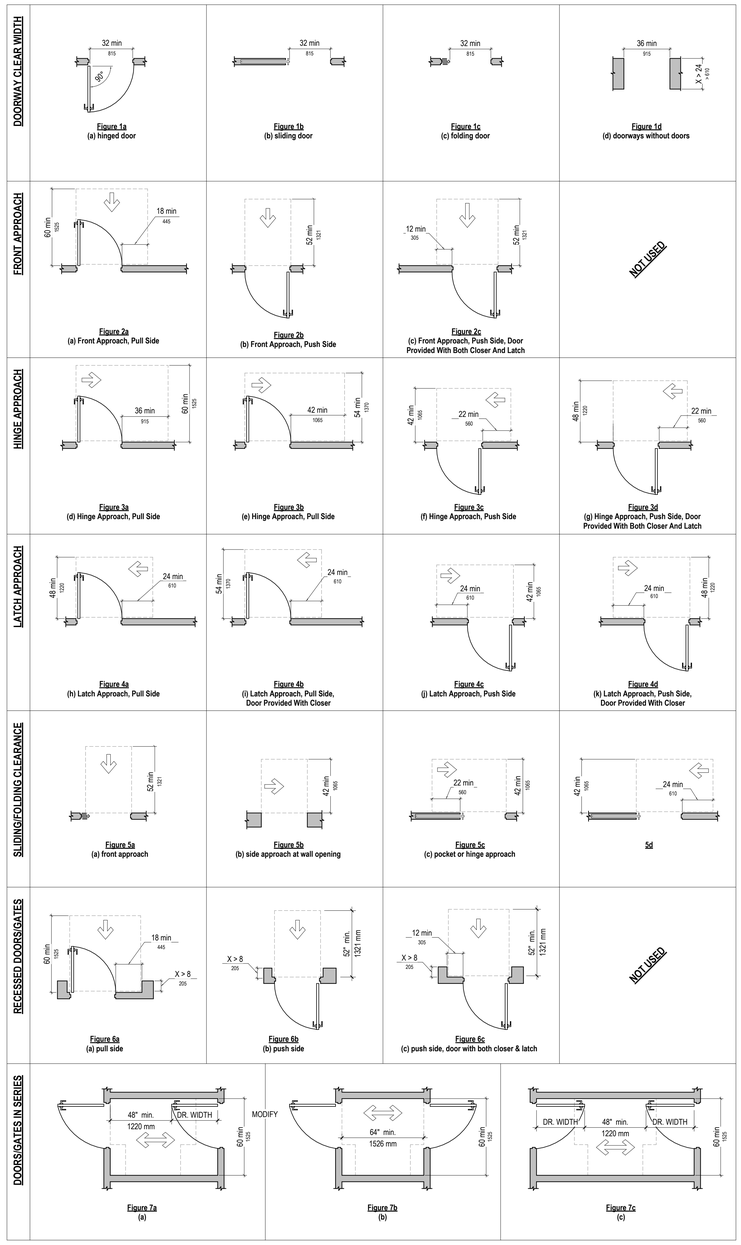
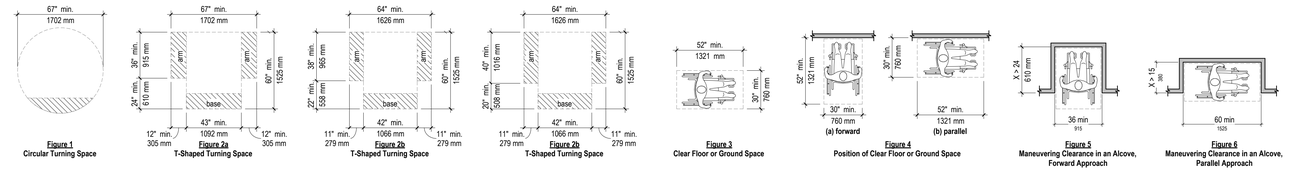


Figure 3
Vertical Clearance

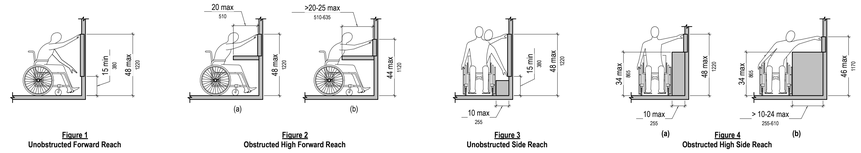
PROTRUDING OBJECTS



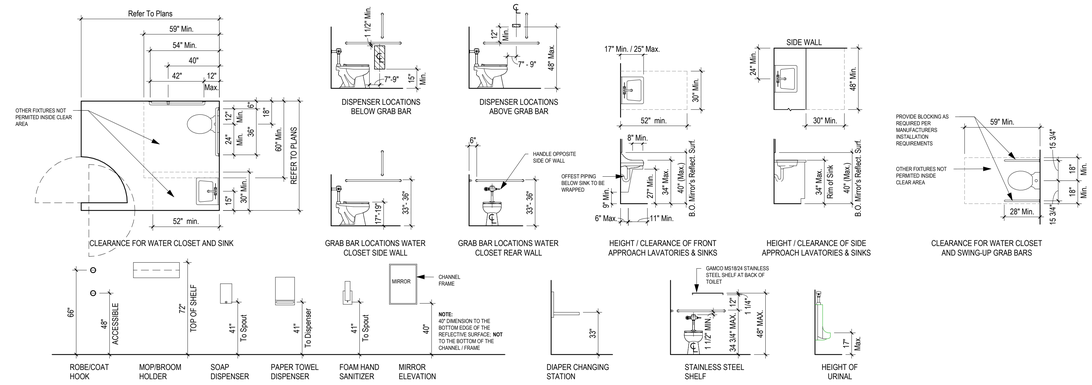
DOOR & OPENING CLEARANCES - 2024



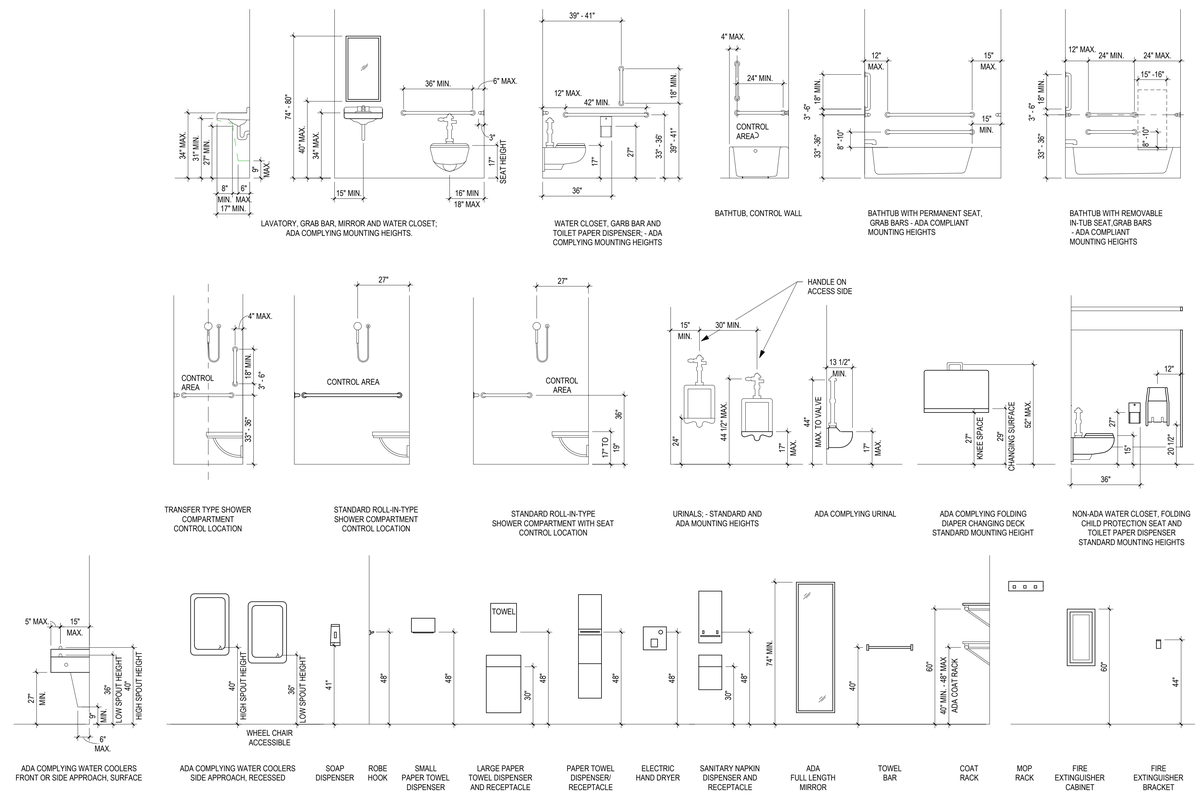
CLEAR FLOOR AREA - 2024



FRONT/SIDE REACH



FIXTURE & ACCESSORY CLEARANCES - 2024



STANDARD MOUNTING HEIGHTS

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DRAWING TITLE:
2024 ACCESSIBILITY STANDARDS & TYPICAL MOUNTING HEIGHTS

G0.20

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CODE NOTES

PROJECT DESCRIPTION :
PROJECT SCOPE: GENERAL MAINTENANCE FOR TROY AQUATIC PARK, INCLUDING REPLACEMENT OF EQUIPMENT AS REQUIRED, REPLACEMENT OF FENCING, TILE REPAIR, AND FENCE REPAIR. EXISTING ENTRY STRUCTURE WILL BE REMOVED AND REPLACED WITH A NEW STEEL FRAMED ENTRY STRUCTURE. SCOPE INCLUDES MINOR MECHANICAL, ELECTRICAL, AND STRUCTURAL WORK AS REQUIRED FOR MAINTENANCE.

CONTRACTOR SHALL COMPLY WITH ALL CODES, LAWS, ORDINANCES, RULES AND INDUSTRY REGULATIONS BEARING ON THE INSTALLATION OF THE WORK SHOWN HEREIN. ALL WORK IS TO BE INSTALLED TO MEET CURRENT CODE REQUIREMENTS. CONTRACTOR IS RESPONSIBLE FOR VERIFYING REQUIREMENTS PRIOR TO INSTALLING WORK.

GOVERNING AGENCIES & APPLICABLE CODES :
APPLICABLE BUILDING CODES:
2024 OHIO BUILDING CODE
2024 OHIO EXISTING BUILDING CODE
2024 OHIO MECHANICAL CODE
2024 OHIO PLUMBING CODE
2017 OHIO FIRE CODE
2021 INTERNATIONAL ENERGY CODE
2023 NATIONAL ELECTRICAL CODE
ICC 500-2014

WORK AREA COMPLIANCE METHOD (PER OEBC 301.3.2):
ADDITION COMPLIES WITH APPLICABLE REQUIREMENTS IN SECTION 302 THROUGH 309.

EXISTING BUILDING SF: 2,572 SF
LEVEL 1 ALTERATION WORK AREA (PER OEBC 603): 286 SF

ALTERATIONS - LEVEL 1 (PER OEBC 809):
ALTERATIONS TO BUILDING COMPLY WITH REQUIREMENTS IN CHAPTER.

USE AND OCCUPANCY CLASSIFICATIONS (PER OBC CHAPTER 3) :
EXISTING USE: NON-SEPARATED MIXED USE:
A-5 ASSEMBLY (BATH HOUSE)
S-1 STORAGE (POOL MECH.)

PROPOSED USE: SAME, NO CHANGE:
A-5 ASSEMBLY (BATH HOUSE)
S-1 STORAGE (POOL MECH.)

CONSTRUCTION TYPE (PER OBC CHAPTER 6) :
TYPE VB, COMBUSTIBLE (NO CHANGE FROM EXISTING)

GENERAL BUILDING HEIGHTS AND AREAS (PER OBC CHAPTER 5) :
ALLOWABLE HEIGHT PER OBC TABLE 504.3:
A-5 USE IN TYPE VB CONSTRUCTION = UNLIMITED
ACTUAL HEIGHT: 17 FEET (NO CHANGE FROM EXISTING)

ALLOWABLE NUMBER OF STORIES ABOVE GRADE PLANE (PER OBC TABLE 504.4):
A-5 USE IN TYPE VB CONSTRUCTION = 1 STORIES
ACTUAL NUMBER OF STORIES: 1 STORY (NO CHANGE FROM EXISTING)

ALLOWABLE AREA (PER OBC SECTION 506.2.2 AND OBC TABLE 506.2):
A-4 USE, TYPE VB CONSTRUCTION, 1 STORY, NON-SPRINKLERED NS] = 6,000 S.F.

ALLOWABLE AREA PER STORY (BASED ON MOST RESTRICTIVE, A-4): 6,000 S.F.
EXISTING BUILDING: 2,572 S.F.
ADDITION: 286 S.F.
ACTUAL AREA PER STORY: 2,858 S.F.

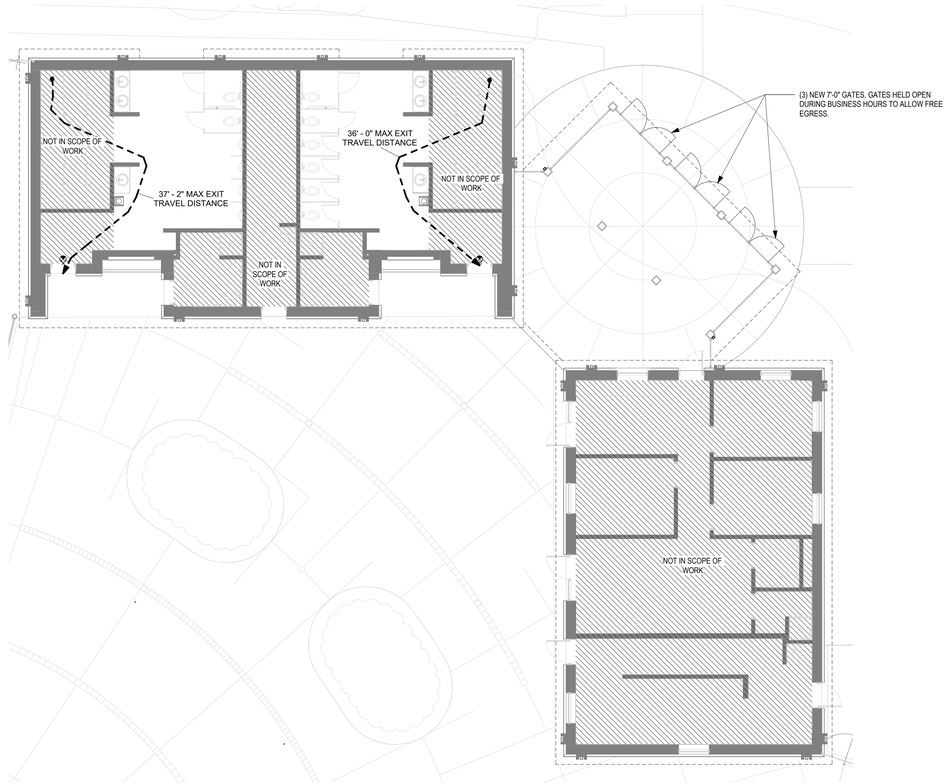
FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (PER OBC TABLE 601) :
PRIMARY STRUCTURAL FRAME: 0 HOURS
BEARING WALLS
EXTERIOR: 0 HOURS
INTERIOR: 0 HOURS
NONBEARING WALLS & PARTITIONS
EXTERIOR: 0 HOURS
INTERIOR: 0 HOURS
FLOOR CONSTRUCTION
AND ASSOCIATED SECONDARY MEMBERS: 0 HOURS
ROOF CONSTRUCTION.
AND ASSOCIATED SECONDARY MEMBERS: 0 HOURS

OCCUPANT LOAD (PER OBC TABLE 1004.1.2) :

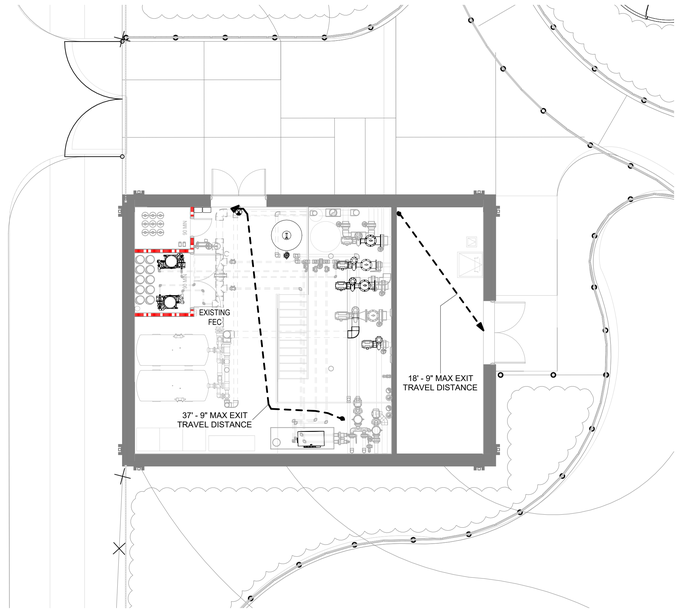
OCCUPANT LOAD UNCHANGED BY SCOPE OF WORK.

EXIT ACCESS TRAVEL DISTANCE (PER OBC TABLE 1017.2) :
WITHOUT SPRINKLER SYSTEM:
A-4 OCCUPANCY: 200 FEET

PLUMBING FACILITIES REQUIREMENTS (PER OBC TABLE 2902.1):
PLUMBING FIXTURE COUNT UNCHANGED BY SCOPE OF WORK.



2 G0.40 **POOL HOUSE CODE PLAN**
1/8" = 1'-0"



1 G0.40 **MECH. BUILDING CODE PLAN**
1/8" = 1'-0"

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CODE ANALYSIS

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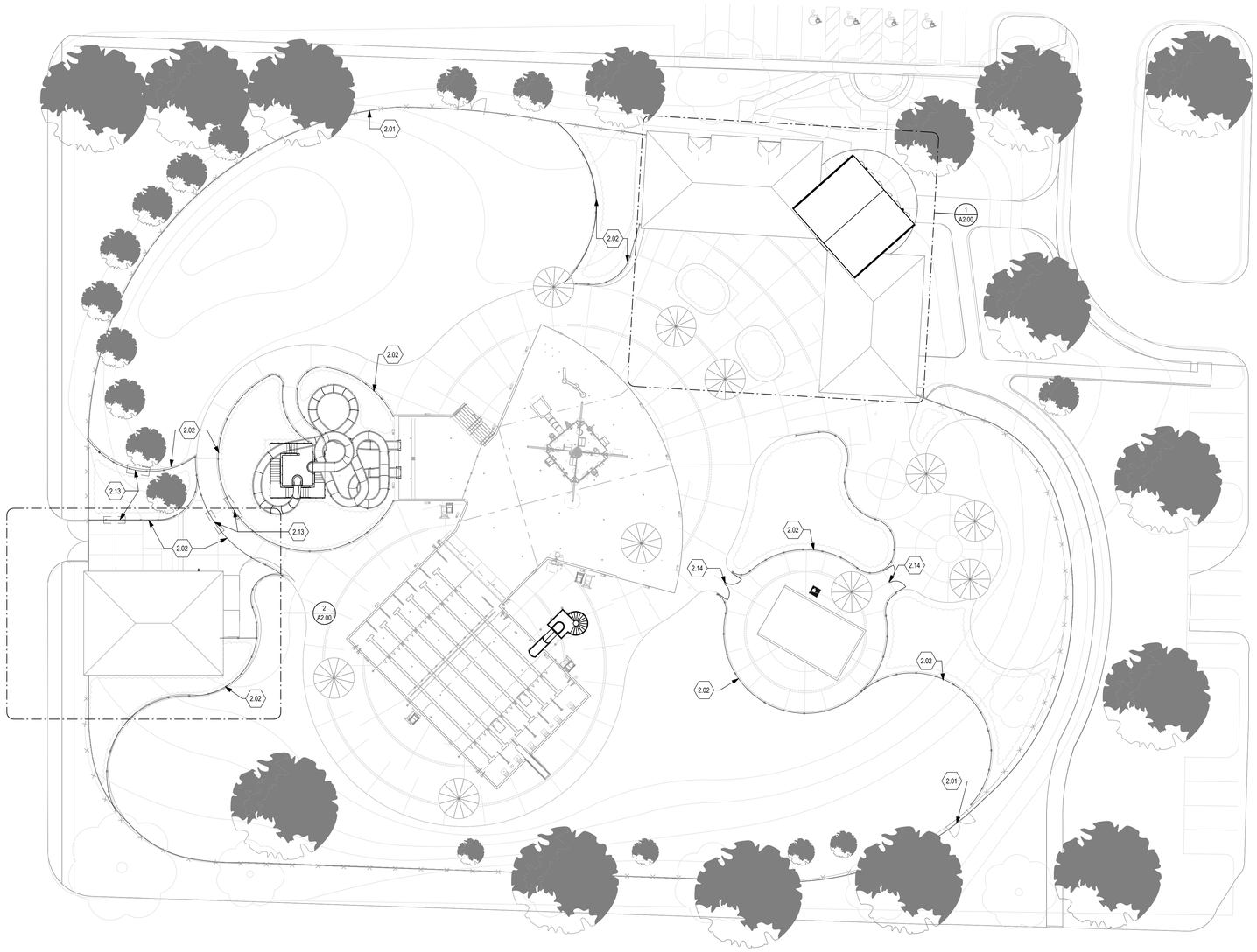
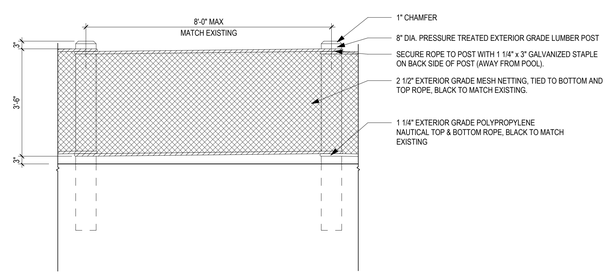


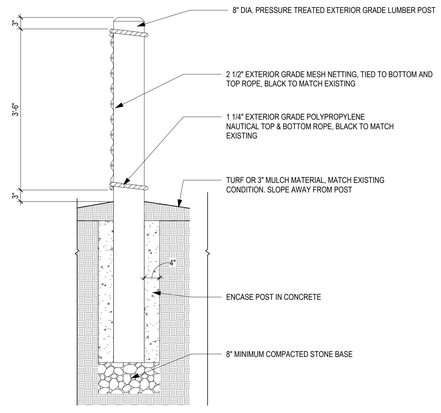
KEYNOTES - CONSTRUCTION

2.01	EXISTING PERIMETER FENCE TO REMAIN.
2.02	EXISTING 3'-0" DECORATIVE ROPE FENCE TO BE REPLACED, INCLUDING TOP AND BOTTOM ROPE, NETTING, AND ASSOCIATED POSTS. REF DETAIL 2, 3, AND 4 ON THIS SHEET FOR ADDITIONAL INFORMATION.
2.13	ROPE GATE AT LOCATION, SPLICE EYE AT RUNNING END OF TOP AND BOTTOM ROPE AT ENDS AND CONNECT TO POST WITH 8" GALVANIZED ROPE CLEAT. 1 1/4" ROPE END AT MOVEABLE SECTION, LASH NETTING TO ROPE.
2.14	EXISTING BARRIER GATE TO BE REPLACED WITH NAUTICAL BARRIER FENCING, REFER TO DETAIL 5 ON THIS SHEET.

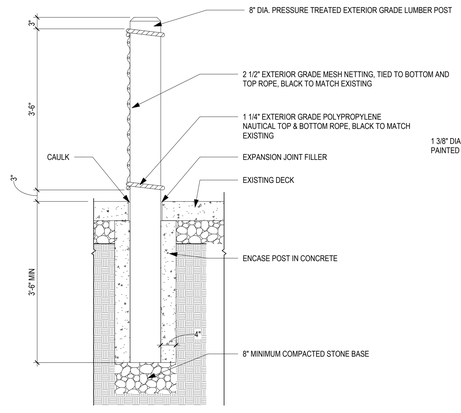
1 A0.10 ARCHITECTURAL SITE PLAN
1" = 20'-0"



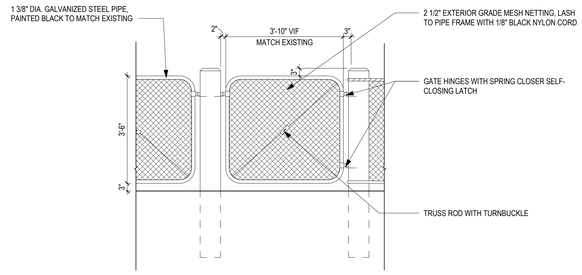
2 A0.10 NAUTICAL ROPE BARRIER ELEVATION
1/2" = 1'-0"



3 A0.10 NAUTICAL ROPE BARRIER POST AT BEDS
3/4" = 1'-0"



4 A0.10 NAUTICAL ROPE BARRIER POST AT DECK
3/4" = 1'-0"



5 A0.10 NAUTICAL ROPE GATE DETAIL
1/2" = 1'-0"

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SITE PLAN

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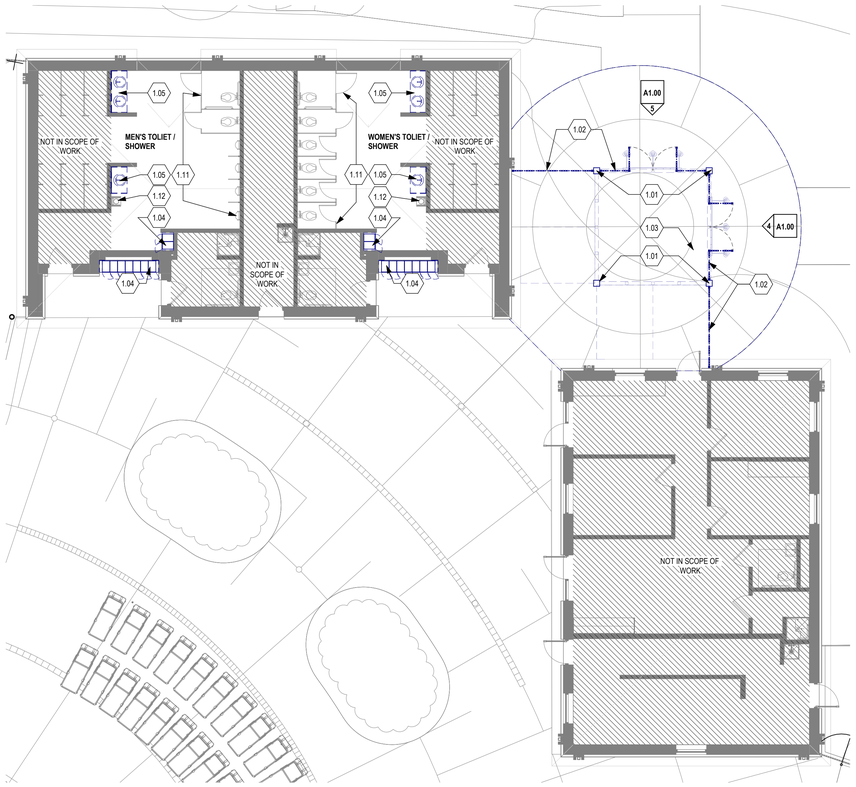
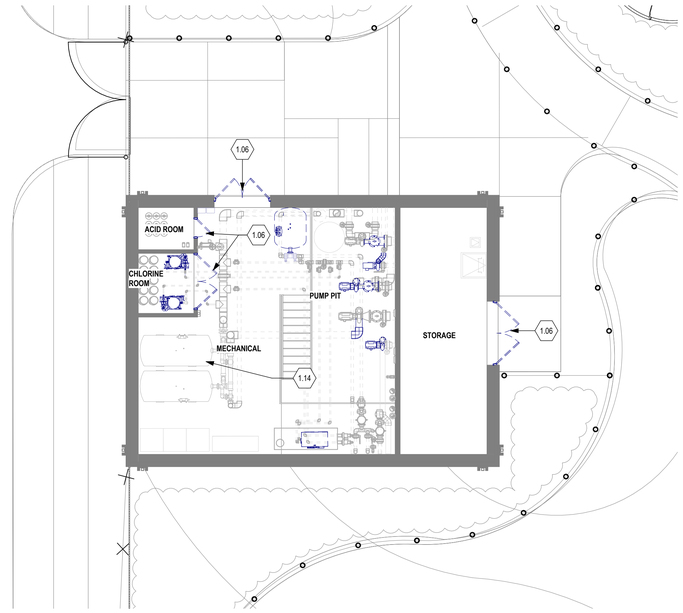


1 FIRST FLOOR DEMO PLAN
A1.00 1/8" = 1'-0"



2 FIRST FLOOR DEMO PLAN
A1.00 1/8" = 1'-0"

GENERAL DEMOLITION NOTES

A. THIS DEMOLITION PLAN SHALL SERVE TO AID THE CONTRACTORS IN EVALUATION OF THE WORK AND EXTENT OF DEMOLITION. BUT WILL NOT BE HELD TO BE ALL INCLUSIVE. THE CONTRACTORS ARE RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING CONDITIONS, DEMOLITION AND REMOVALS AS REQUIRED FOR THE INSTALLATION OF THE NEW WORK AND FINISHES INDICATED WHETHER OR NOT IT IS SPECIFICALLY NOTED IN THESE DRAWINGS

B. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR RELATED WORK. GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE WORK WITH OTHER CONTRACTORS.

C. DEMOLITION WORK EFFECTING OCCUPIED AREAS OF THE FACILITY WILL BE SCHEDULED IN ADVANCE WITH THE OWNER THROUGH CONSTRUCTION/PROJECT MANAGER. REFER TO SPECIFICATIONS.

D. OFFER REMOVED ITEMS SUCH AS DOORS, HARDWARE, PLUMBING FIXTURES, AND TOILET ACCESSORIES TO OWNER BEFORE REMOVAL FROM THE SITE. DETERMINE SALVAGE ITEMS WITH THE OWNER BEFORE DEMOLITION BEGINS.

E. ALL CONTRACTORS ARE RESPONSIBLE FOR SECURING CHASES AND RISERS BEFORE DEMOLITION WORK PROCEEDS TO PREVENT DEBRIS FROM FALLING THROUGH INTO OCCUPIED SPACES BELOW.

F. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR RELATED WORK AND ITEMS TO BE REMOVED OR RE-INSTALLED IN NEW CONSTRUCTION. TEMPORARY LIGHTING, COMMUNICATION AND MECHANICAL SYSTEMS WILL BE COORDINATED WITH OTHER CONTRACTORS. MAINTAIN ALL LIFE SAFETY DEVISES.

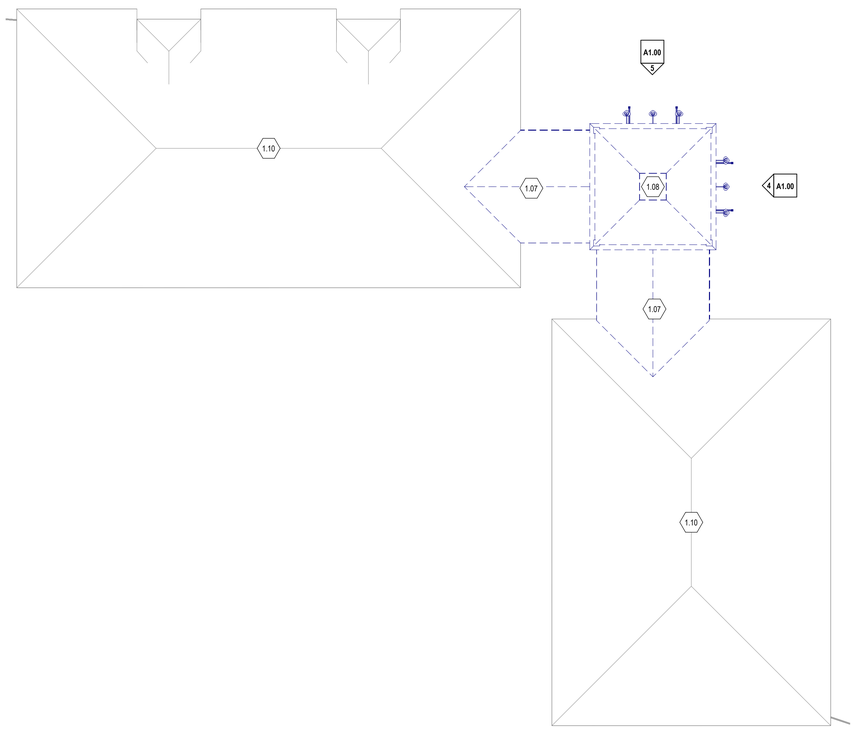
F. HOLES LEFT IN THE CONCRETE FLOOR FROM REMOVED ITEMS SUCH AS PLUMBING PIPES, CONDUITS, ETC. WILL BE PATCHED BY RESPECTIVE CONTRACTOR PERFORMING THAT PORTION OF THE WORK.

H. FINISH REMOVAL NOTES APPLY TO PARTITIONS/WALLS THAT REMAIN. REMOVE ALL FINISHES FROM WALLS THAT REMAIN WITHIN THE LIMIT OF CONSTRUCTION.

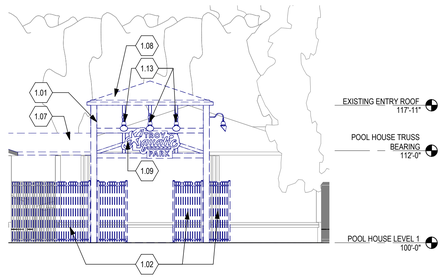
I. INTERIOR PARTITIONS AND/OR WALLS SHALL BE REMOVED ENTIRELY FROM DECK ABOVE TO DECK BELOW.

KEYNOTES - DEMOLITION

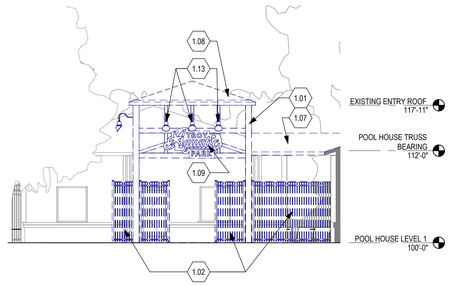
1.01 REMOVE EXISTING ENTRY STRUCTURE INCLUDING ASSOCIATED COLUMNS AND FRAMING ABOVE.
1.02 REMOVE EXISTING ENTRY FENCE AND GATES IN THEIR ENTIRETY.
1.03 DEMO EXISTING CONCRETE SLAB AS REQUIRED FOR REMOVAL OF ENTRY STRUCTURE AND FENCE.
1.04 ADD ALTERNATE 04: REMOVE EXISTING LOCKERS, EXISTING 8" CMU BASE TO REMAIN.
1.05 REMOVE EXISTING SINK AND ASSOCIATED MILLWORK INCLUDING MIRROR ABOVE LAVATORY, RETAIN EXISTING PLUMBING FOR INSTALLATION OF NEW SINK. EXISTING LAVATORY ACCESSORIES TO BE REMOVED AND RETAINED FOR REINSTALLATION. COORDINATE STORAGE WITH OWNER.
1.06 ADD ALTERNATE 05: REMOVE EXISTING DOOR AND FRAME IN IT'S ENTIRETY.
1.07 REMOVE EXISTING ROOF STRUCTURE, PREP EXISTING ADJACENT ROOF FOR REPAIR.
1.08 REMOVE EXISTING ENTRY ROOF.
1.09 REMOVE AND RETAIN EXISTING SIGNAGE FOR REINSTALLATION, COORDINATE STORAGE WITH OWNER.
1.10 EXISTING ROOF TO REMAIN
1.11 EXISTING TOILET PARTITIONS AND FIXTURES TO REMAIN.
1.12 EXISTING SUIT DRYER TO REMAIN.
1.13 REMOVE EXISTING LIGHT FIXTURES. REF ELECTRICAL DRAWINGS.
1.14 REFER TO AQUATIC DRAWINGS FOR POOL EQUIPMENT DEMOLITION SCOPE.



3 ROOF DEMO PLAN
A1.00 1/8" = 1'-0"



4 ENTRY STRUCTURE DEMO ELEVATION E
A1.00 1/8" = 1'-0"



5 ENTRY STRUCTURE DEMO ELEVATION N
A1.00 1/8" = 1'-0"

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DRAWING TITLE:
FIRST FLOOR DEMOLITION PLAN

A1.00

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CHECKED BY: Checker
DRAWN BY: Author

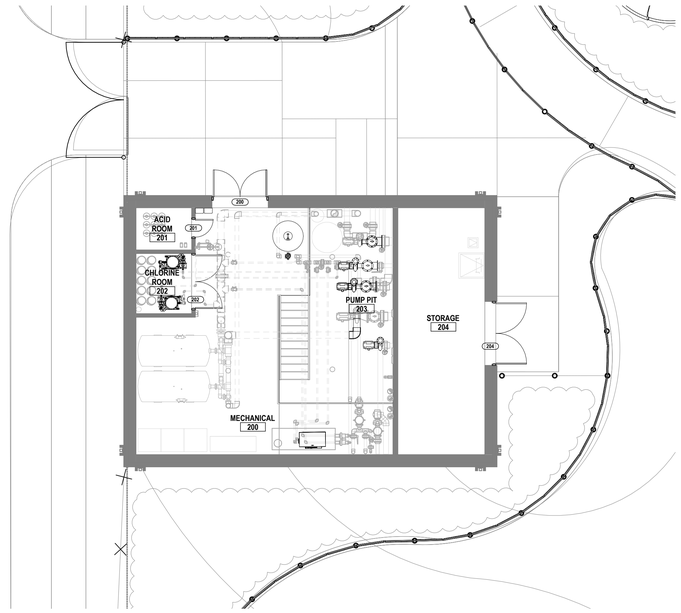
GENERAL CONSTRUCTION NOTES

A. ALL DIMENSIONS THAT ARE +/- OR ± (PLUS OR MINUS) ARE TO BE DETERMINED EXACTLY BY FIELD MEASUREMENT.
B. ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE VERIFIED IN THE FIELD BEFORE PROCEEDING WITH THE WORK. ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES.
C. ALL DIMENSIONS HAVE PREFERENCE OVER SCALE, DO NOT SCALE DRAWINGS.
D. LARGE SCALE DETAILS, GOVERN OVER SMALL SCALE DETAILS.
E. IF CONTRACTOR SHOULD DISCOVER ANY UNFORSEEN PROBLEMS DURING THE REMOVAL OF ANY EXISTING CONSTRUCTION OR THE CONSTRUCTION OF ANY NEW WORK, THE ARCHITECT SHOULD BE NOTIFIED IMMEDIATELY AND THAT PARTICULAR WORK SHOULD BE DISCONTINUED UNTIL NECESSARY REVISIONS CAN BE DECIDED UPON.
F. ALL DOORS IN METAL STUD PARTITIONS TO BE LOCATED WITH OUTSIDE EDGE OF THE FRAME 4" FROM PERPPENDICULAR WALL. ALL MASONRY OPENINGS CREATED FOR NEW DOORS TO BE LOCATED 8" FROM PERPENDICULAR WALL. TYPICAL UNLESS NOTED OTHERWISE.
G. ALL INTERIOR WALLS GO TO ROOF DECK, UNLESS NOTED OTHERWISE.
H. WHEN INFILLING AN OPENING WITHIN A MASONRY WALL, TOOTH-IN MASONRY TO MATCH EXISTING COURSING, UNLESS NOTED OTHERWISE.
I. ALL INTERIOR DIMENSIONS ARE TO FACE OF SHEATHING AND/OR FACE OF INTERIOR MASONRY, UNLESS NOTED OTHERWISE.
J. COORDINATE FINAL PARITION LOCATIONS WITH FURRING AT STRUCTURAL ELEMENTS.
K. COORDINATE INTERIOR CONCRETE SLAB ON GRADE CONTROL JOINT PATTERN AT ALL HARD-TILED SURFACE AREAS WITH ARCHITECT.
L. ALL EXTERIOR DIMENSIONS ARE TO FACE OF FOUNDATION, FACE OF EXTERIOR SHEATHING, AND/OR FACE OF EXTERIOR MASONRY.

KEYNOTES - CONSTRUCTION

2.03 NEW MILLWORK AND SINK.
2.04 ADD ALTERNATE 04: NEW 18" DEEP EXTERIOR GRADE PHENOLIC LOCKERS WITH SLOPED TOP. (42) TOTAL 1'X1' LOCKERS BASED ON EXISTING LOCKER COUNT. INFILL AT ENDS AS REQUIRED TO FILL EXISTING SPACE.
2.05 ADD ALTERNATE 04: NEW 18" DEEP EXTERIOR GRADE PHENOLIC LOCKERS WITH SLOPED TOP. (12) TOTAL 1'X1' LOCKERS BASED ON EXISTING LOCKER COUNT. INFILL AT ENDS AS REQUIRED TO FILL EXISTING SPACE.
2.06 NEW 18" VERTICAL GRAB BAR, REF SHEET G0.20 FOR MOUNTING LOCATION. BASIS OF DESIGN: BOBRICK B-8806 x 18: 18"
2.07 NEW PERIMETER FENCE AND GATES, REF DETAILS ON SHEET A6.00
2.08 NEW DOWNSPOUT
2.09 NEW STANDING SEAM METAL ROOF.
2.10 NEW CONCRETE SLAB ON GRADE, AS REQUIRED. MATCH EXISTING SLAB CONSTRUCTION AND SLOPE.
2.11 PATCH AND REPAIR EXISTING ROOF AT ENTRY ROOF DEMOLITION. EXTEND EXISTING GUTTERS, FASCIA, AND METAL ROOFING AS REQUIRED.
2.12 NEW SURFACE MOUNTED LIGHT FIXTURE, REF ELECTRICAL DRAWINGS
2.15 NEW MIRROR, 36" H x FULL WIDTH WITH STAINLESS STEEL CHANNEL FRAME.

1 A2.00 **FIRST FLOOR CONSTRUCTION PLAN - FRONT ENTRY**
1/8" = 1'-0"



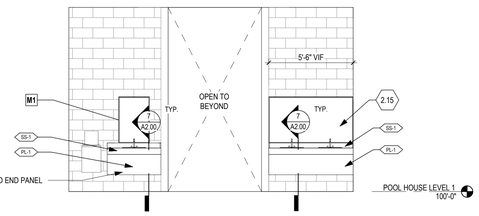
2 A2.00 **FIRST FLOOR CONSTRUCTION PLAN - MECH. BUILDING**
1/8" = 1'-0"

EQUIPMENT SCHEDULE

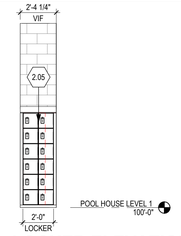
MARK	DESCRIPTION	MANUFACTURER	MODEL	COMMENTS
M1	24"x36" MIRROR	BOBRICK	B-165 2436	

INTERIOR MATERIAL SCHEDULE

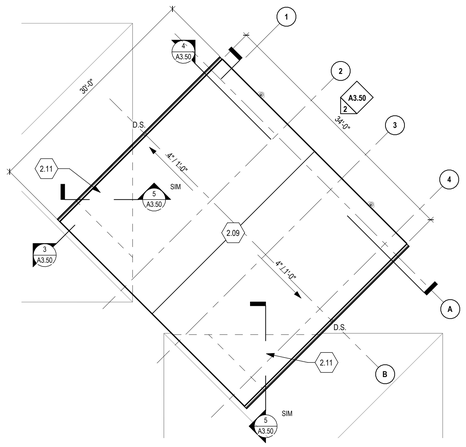
FINISH CODE	FINISH DESCRIPTION	MANUFACTURER	PRODUCT / STYLE	COLOR / FINISH	SIZE	COMMENTS
PAINT						
P-1	EXTERIOR PAINT	SHERWIN WILLIAMS	PRO INDUSTRIAL ACRYLIC	TBD, TO MATCH EXISTING EXTERIOR METAL		
SURFACE MATERIALS						
PL-1	PLASTIC LAMINATE	WILSONART	MATTE	SILVER MIST	-	-
SS-1	SOLID SURFACE	CORIAN SOLID SURFACE	ARTISTA MIST	-	3 CM	



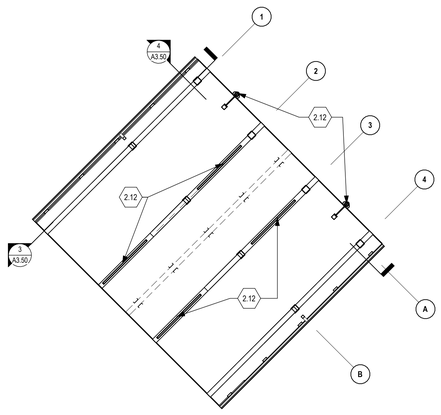
5 A2.00 **205 & 206_LOCKER ROOM SINK ELEVATION**
1/4" = 1'-0"



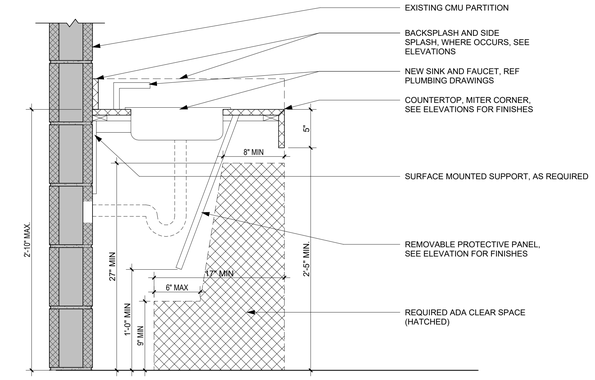
6 A2.00 **205 & 206_LOCKER ELEVATION**
1/4" = 1'-0"



3 A2.00 **ENTRY ROOF PLAN**
1/8" = 1'-0"



4 A2.00 **ENTRY ROOF**
1/8" = 1'-0"



7 A2.00 **LAVATORY MILLWORK SECTION**
1 1/2" = 1'-0"

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TROY AQUATIC PARK MAINTENANCE IMPROVEMENTS

CITY OF TROY RECREATION
460 WEST STAUNTON DRIVE TROY, OHIO 45373

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	04/10/26	BID SET

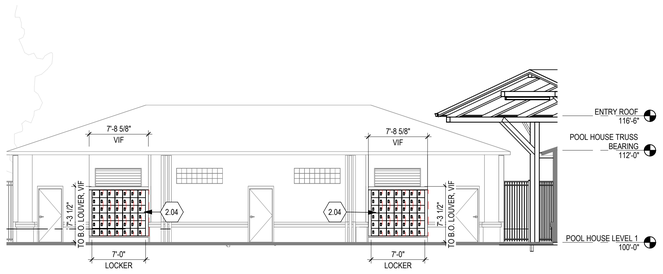
PROJECT NO. **25306.00**

DRAWING TITLE:
FIRST FLOOR CONSTRUCTION PLAN

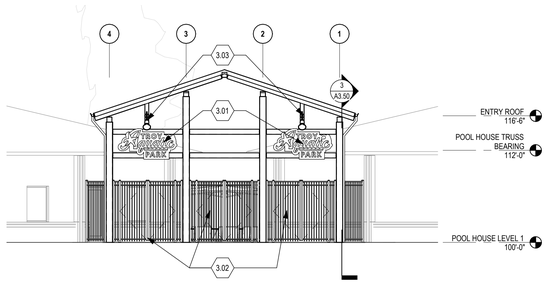
A2.00

4/13/2026 10:26:19 AM Autodesk Docs://25306.00_City of Troy Aquatic Park Improvements & Maintenance/25306.00 City of Troy Aquatic Park Improvements-Maintenance.rvt

CHECKED BY: Checker
DRAWN BY: Author
4/13/2026 9:33:38 AM Autodesk Docs://25306.00_City of Troy Aquatic Park Improvements & Maintenance/25306.00 City of Troy Aquatic Park Improvements-Maintenance.rvt



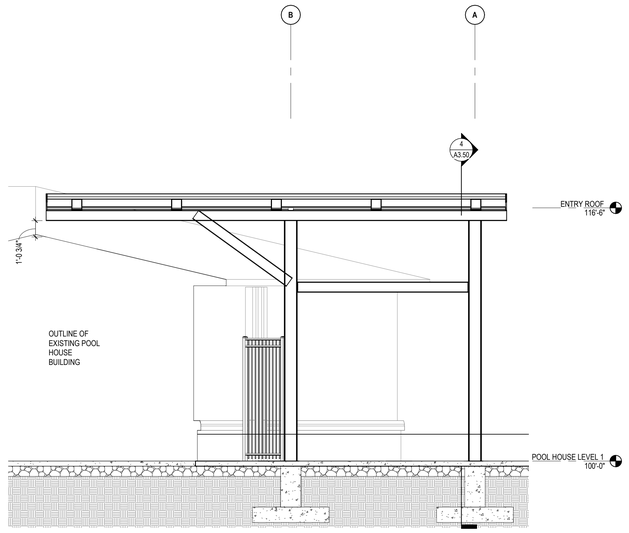
1 A3.50 BATH HOUSE ELEVATION S
1/8" = 1'-0"



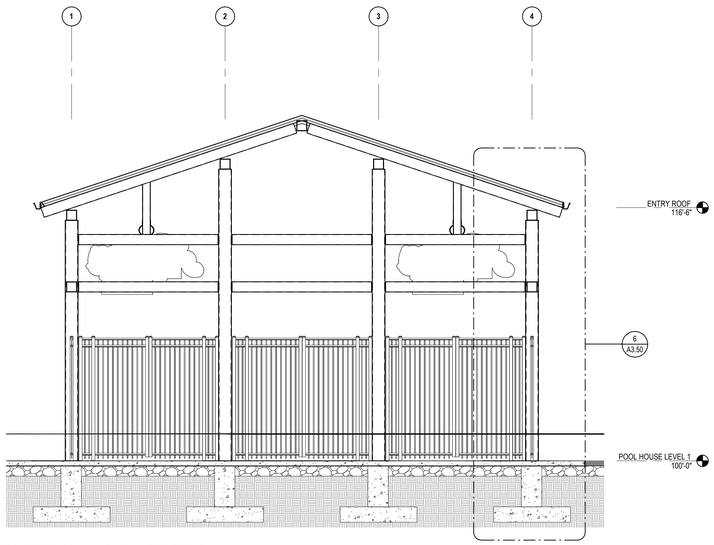
2 A3.50 FRONT ENTRY ELEVATION W
1/8" = 1'-0"

KEYNOTES - CONSTRUCTION

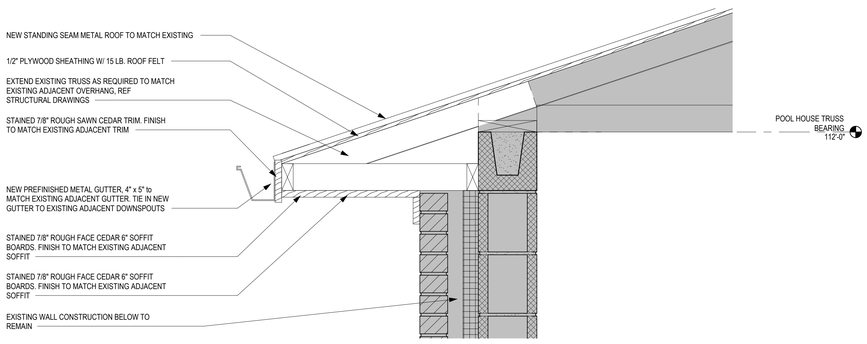
2.04	ADD ALTERNATE 04: NEW 18" DEEP EXTERIOR GRADE PHENOLIC LOCKERS WITH SLOPED TOP. (42) TOTAL 1'X1' LOCKERS BASED ON EXISTING LOCKER COUNT. INFILL AT ENDS AS REQUIRED TO FILL EXISTING SPACE.
3.01	NEW LOCATION FOR EXISTING ENTRY SIGNAGE.
3.02	NEW PERIMETER FENCE AND GATES, REF DETAILS
3.03	SIGNAGE LIGHTING, REF ELECTRICAL DRAWINGS



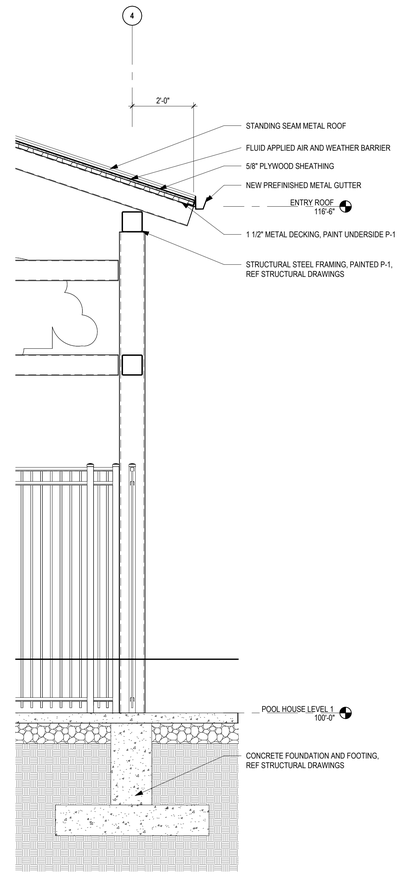
3 A3.50 ENTRY CANOPY OVERHANG SECTION
1/4" = 1'-0"



4 A3.50 ENTRY CANOPY SECTION
1/4" = 1'-0"



5 A3.50 SECTION AT EXISTING ROOF REPLACEMENT
1 1/2" = 1'-0"



6 A3.50 ENTRY CANOPY SECTION
1/2" = 1'-0"

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NO.	DATE	ISSUED / REVISION
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PROJECT NO. **25306.00**

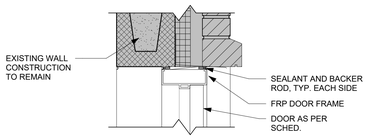
DRAWING TITLE:
BUILDING ELEVATIONS & SECTIONS

A3.50

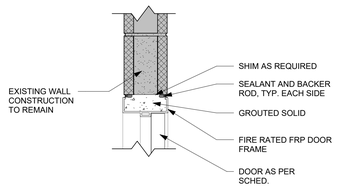
CHECKED BY: Checker
DRAWN BY: Author

DOOR SCHEDULE

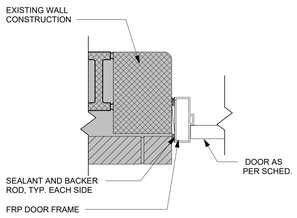
MARK	ROOM	WIDTH	HEIGHT	DOOR				FRAME			FIRE RATING	DOOR HARDWARE #	COMMENTS
				LEAF TYPE	LEAF MATERIAL	LEAF FINISH	GLAZING TYPE	FRAME TYPE	FRAME MATERIAL	FRAME FINISH			
POOL HOUSE LEVEL 1													
200	MECHANICAL	7'-0"	7'-2"	F	FRP	-	-	2	FRP	-	-	1	
201	ACID ROOM	2'-4"	7'-2"	F	FRP	-	-	2	FRP	-	90 MIN	2	
202	CHLORINE ROOM	7'-0"	7'-2"	F	FRP	-	-	2	FRP	-	90 MIN	3	
204	STORAGE	8'-0"	7'-2"	F	FRP	-	-	2	FRP	-	-	1	



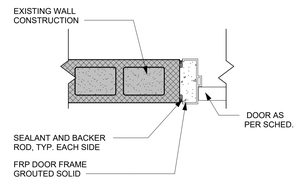
1 A6.00 **EXT. DOOR HEAD DETAIL**
1 1/2" = 1'-0"



3 A6.00 **INT. DOOR HEAD DETAIL**
1 1/2" = 1'-0"

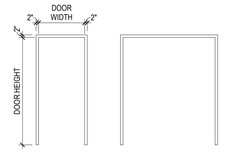


2 A6.00 **EXT. DOOR JAMB DETAIL**
1 1/2" = 1'-0"



4 A6.00 **INT. DOOR JAMB DETAIL**
1 1/2" = 1'-0"

ASSOCIATED SCHEDULES AND DETAILS ARE FOR ADD ALTERNATE 05



1

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

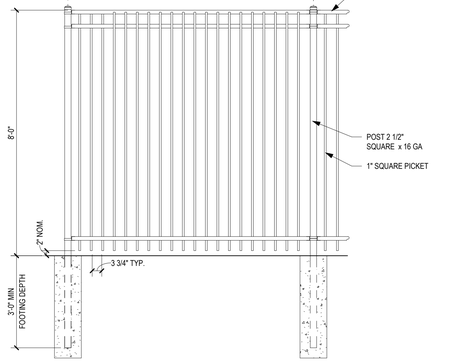
F

DOOR LEAF ELEVATIONS
1/4" = 1'-0"

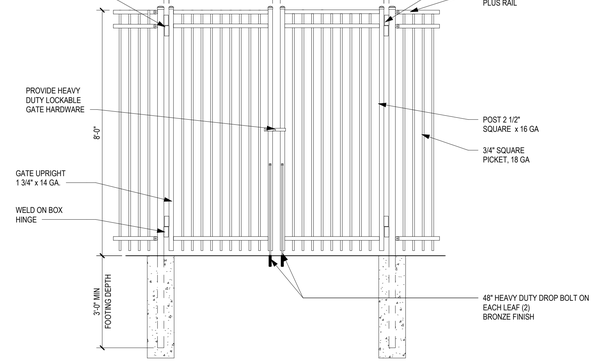
DOOR LEAF ABBREVIATIONS:
F - FLUSH

ADDITIONAL ABBREVIATIONS:

ALUM	- ALUMINUM	HM	- HOLLOW METAL	WD	- WOOD
ANOD	- ANODIZED	HPC	- HIGH-PERFORMANCE COATING	PT	- PAINT
GHM	- GALVANIZED HOLLOW METAL	SCW	- SOLID CORE WOOD	ST	- STAIN
		HCW	- HOLLOW CORE WOOD	SS	- STAINLESS STEEL



5 A6.00 **ENTRY FENCE DETAIL TYP.**
1/2" = 1'-0"



6 A6.00 **ENTRY GATE DETAIL TYP.**
1/2" = 1'-0"

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PROJECT NO. **25306.00**

DRAWING TITLE:
DOOR SCHEDULES & BUILDING DETAILS

A6.00

4/10/2026 5:05:16 PM Autodesk Docs://25306.00_City of Troy Aquatic Park Improvements & Maintenance/25306.00 City of Troy Aquatic Park Improvements-Maintenance.rvt

DRAWN BY: William Hines
CHECKED BY: Pat Carney

STRUCTURAL NOTES

A. GENERAL

1. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE, AND TO ENSURE THE STABILITY OF THE BUILDING AND ITS COMPONENT PARTS, AND THE ADEQUACY OF TEMPORARY OR INCOMPLETE CONNECTIONS, DURING ERECTION. THIS INCLUDES THE ADDITION OF ANY SHORING, SHEETING, TEMPORARY GUYS, BRACING OR TIEDOWNS THAT MIGHT BE NECESSARY. SUCH MATERIAL IS NOT SHOWN ON THE DRAWINGS. IF APPLIED, THEY SHALL BE REMOVED AS CONDITIONS PERMIT, AND SHALL REMAIN THE CONTRACTOR'S PROPERTY. THE ENGINEER HAS NO EXPERTISE IN, AND TAKES NO RESPONSIBILITY FOR CONSTRUCTION MEANS AND METHODS OR JOB SITE SAFETY DURING CONSTRUCTION. PROCESSING AND/OR APPROVING SUBMITTALS MADE BY THE CONTRACTOR WHICH MAY CONTAIN INFORMATION RELATED TO CONSTRUCTION METHODS OR SAFETY ISSUES, OR PARTICIPATION IN MEETINGS WHERE SUCH ISSUES MIGHT BE DISCUSSED, SHALL NOT BE CONSTRUED AS VOLUNTARY ASSUMPTION BY THE ENGINEER OF ANY RESPONSIBILITY FOR SAFETY PROCEDURES.
2. IT IS SOLELY THE RESPONSIBILITY OF EACH CONTRACTOR TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION. THE ENGINEER IS NOT ENGAGED IN, AND DOES NOT SUPERVISE, CONSTRUCTION.
3. EQUIPMENT FRAMING LOADS, OPENINGS AND STRUCTURE IN ANY WAY RELATED TO HVAC, PLUMBING, OR ELECTRICAL REQUIREMENTS ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL COORDINATE THIS INFORMATION WITH THE INVOLVED TRADES BEFORE PROCEEDING WITH SUCH PORTION OF THE WORK. EXCESS COST RELATED TO VARIATION IN THESE REQUIREMENTS SHALL BE BORNE BY THE APPROPRIATE CONTRACTOR.
4. SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THESE STRUCTURAL NOTES, THE SPECIFICATIONS, OR WITH EACH OTHER, THE STRICTEST PROVISION SHALL GOVERN.
5. GOVERNING CODE: 2024 OHIO BUILDING CODE.
6. EXISTING BUILDING: PROVIDE TEMPORARY SUPPORTS AND OTHER MEASURES AS REQUIRED TO PREVENT DAMAGE TO THE EXISTING BUILDING DURING CONSTRUCTION. FIELD VERIFY ALL EXISTING DIMENSIONS AND ELEVATIONS WHICH AFFECT THE NEW CONSTRUCTION.
7. ROOF LIVE LOAD:
   a. MINIMUM ROOF LIVE LOAD — 17 PSF
8. ROOF SNOW LOAD: 20 MINIMUM FLAT ROOF SNOW LOAD ($p_{f,MIN}$) OR 20 PSF (p_f) PLUS THE EFFECTS OF DRIFTING SNOW.
   a. GROUND SNOW LOAD (p_g) = 20 PSF
   b. FLAT ROOF SNOW LOAD (p_f) = 17 PSF, ($p_{f,MIN}$) = 20 PSF
   c. SNOW EXPOSURE FACTOR (C_e) = 1.0
   d. SNOW LOAD IMPORTANCE FACTOR (I) = 1.0
   e. THERMAL FACTOR (C_t) = 1.2
9. WIND DESIGN PARAMETERS
   a. ULTIMATE DESIGN WIND SPEED (V_{ULT}) = 107 MPH
   b. WIND EXPOSURE = EXPOSURE C
   c. MULTIPLY WIND LRFD LOADS BY 0.6 FOR ASD LOADS
10. SEISMIC DESIGN PARAMETERS
    a. RISK CATEGORY - II
    b. SEISMIC IMPORTANCE FACTOR = 10
    c. MAPPED SPECTRAL RESPONSE ACCELERATION: S_S = 0.208, S_1 = 0.073
    d. SITE CLASS = D (ASSUMED)
    e. SPECTRAL RESPONSE COEFFICIENTS: S_{DS} = 0.222, S_{D1} = 0.117
    f. SEISMIC DESIGN CATEGORY = CATEGORY B
    g. BASIC SEISMIC FORCE RESISTING SYSTEMS — STRUCTURAL STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
    h. SEISMIC RESPONSE COEFFICIENT (C_S) = 0.074
    i. RESPONSE MODIFICATION FACTOR (R) = 3
    j. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE

B. REINFORCED CONCRETE

1. MATERIALS:
   a. SPECIFICATIONS: IN GENERAL, COMPLY WITH ACI 301-20 "SPECIFICATIONS FOR STRUCTURAL CONCRETE."
   b. STRUCTURAL CONCRETE

CLASS	LOCATION	f'c (PSI)
I	FOUNDATIONS	3,000
III	EXTERIOR SLABS ON GRADE AND ALL EXTERIOR CONCRETE NOT OTHERWISE IDENTIFIED.	4,500 (WITH AIR)
IV	BACKFILL BELOW SHALLOW FOUNDATIONS, CONTROLLED DENSITY FILL (CDF)	300

   c. ALL DEFORMED REINFORCING BARS: F_y = 60,000 PSI
2. FIELD MANUAL: PROVIDE AT LEAST ONE COPY OF THE ACI FIELD REFERENCE MANUAL, SP-15, IN THE FIELD OFFICE AT ALL TIMES.
3. FOUNDATIONS, PIERS, COLUMNS, WALLS:
   a. DOWELS IN FOUNDATIONS TO MATCH VERTICAL PIER, COLUMN, OR WALL REBAR.
   b. PROVIDE CLASS IV CONTROLLED DENSITY FILL UNDER FOUNDATIONS FOR ACCIDENTAL OVER-EXCAVATION, SOFT SPOTS, AND TRENCHES.
4. SPLICES: UNLESS NOTED OTHERWISE, MINIMUM LAP SPLICE LENGTHS TO BE AS FOLLOWS:
   (MULTIPLY LAP LENGTHS BY 1.33 FOR REINFORCEMENT IN LIGHTWEIGHT CONCRETE)

BAR SIZE	SPLICE LENGTH REQUIREMENTS (4000 PSI MIN.)			
	BEAMS, COLUMNS & WALLS (1 7/8" MIN. COVER TO BAR)		SLABS	
	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS
#3	15"	12"	15"	12"
#4	20"	15"	20"	15"
#5	25"	19"	29"	23"
#6	29"	23"	40"	31"
#7	43"	33"	65"	50"
#8	51"	39"	81"	62"
#9	63"	49"	98"	76"
#10	78"	60"	119"	92"
#11	93"	72"	141"	108"

5. CONCRETE COVER: UNLESS NOTED OTHERWISE, DETAIL REINFORCING TO PROVIDE CONCRETE COVER AS FOLLOWS:

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:	3 INCHES
CONCRETE EXPOSED TO EARTH OR WEATHER:	
#5 BARS AND SMALLER	1-1/2 INCHES
OTHERS	2 INCHES
CONCRETE NOT EXPOSED TO EARTH OR WEATHER:	
BEAM AND COLUMN BARS INCLUDING TIES, STIRRUPS AND SPIRALS	1-1/2 INCHES
SLABS, WALLS, JOISTS, #11 BARS AND SMALLER	1 INCH
OTHERS	1-1/2 INCHES

8. MISCELLANEOUS:
   a. GROUT UNDER BEARING PLATES, SETTING PLATES, AND COLUMN BASE PLATES SHALL BE NON-SHRINKING TYPE. THE USE OF LEVELING PLATES AT COLUMN BASES IS PROHIBITED. GROUT BELOW BEARING PLATES, SETTING PLATES, AND COLUMN BASE PLATES IS TO BE INSTALLED ONLY AFTER THE STEEL IS PLUMBED.
9. CONTINGENCIES:
   a. INCLUDE AN ALLOWANCE IN THE BID TO PROVIDE AND INSTALL 0.5 ADDITIONAL TONS OF REINFORCING BARS. MATERIAL TO BE USED AND ITS APPLICATION SHALL BE DETERMINED BY THE ARCHITECT. BENT BARS, IF REQUIRED, SHALL BE BENT IN THE SHOP, UNLESS OTHERWISE APPROVED.
   b. PROVIDE SUPPORTS AS REQUIRED TO MAINTAIN ALIGNMENT OF SCHEDULED REINFORCING. SUCH SUPPORTS ARE TO BE REFLECTED IN THE BID, AND ARE NOT PART OF THE CONTINGENCY QUANTITY LISTED ABOVE.

C. STRUCTURAL STEEL

1. THE STEEL FRAME AS DESIGNED IS A NON-SELF-SUPPORTING STEEL FRAME. COORDINATE THE ERECTION WITH THE INSTALLATION OF OTHER BUILDING ELEMENTS REQUIRED FOR THE STRUCTURE'S STABILITY. THESE ELEMENTS INCLUDE SLABS, METAL DECK, MASONRY WALLS, CONCRETE WALLS AND LIGHT GAGE METAL FRAMING.
2. MATERIALS:
   a. STRUCTURAL STEEL CHANNEL, ANGLES, PLATES, ETC.: ASTM A36, F_y = 36 KSI
   b. STRUCTURAL STEEL WIDE FLANGES: ASTM A572 OR ASTM A992, F_y = 50 KSI
   c. BASE PLATE: ASTM A36, F_y = 36 KSI
   d. ANCHOR RODS: ASTM F1554 GR.36 TYP. ASTM F1554 GR.55 AT BRACED FRAME AND MOMENT FRAME COLUMNS
   e. ELECTRODES: SERIES E70
   f. SQUARE AND RECTANGULAR TUBING: ASTM A500, F_y = 46 KSI
3. SPECIFICATION: WELDING PERSONNEL AND PROCEDURES ARE TO BE QUALIFIED PER AWS D1.1. UNLESS SPECIFICALLY SHOWN OTHERWISE, DESIGN, FABRICATION AND ERECTION TO BE GOVERNED BY:
   a. AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (JUNE 22, 2010) 360-16.
   b. AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES (APRIL 14, 2010).
   c. STRUCTURAL WELDING CODE, AWS D1.1/D1.1 M: 2015 OF THE AMERICAN WELDING SOCIETY.
   d. SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM HIGH-STRENGTH BOLTS (DECEMBER 31, 2009).
4. CONNECTIONS:
   a. CONNECTIONS OF HSS BEAMS OR GIRTS TO BE END PLATES OR DOUBLE ANGLES (ORIENTED VERTICALLY) WITH BOLTS SELECTED BY THE FABRICATOR TO DEVELOP THE FULL UNIFORM LOAD CAPACITY OF THE MEMBER FOR THE MEMBER'S STRONG AXIS OR FORCES SHOWN ON PLANS. CONNECTIONS OF HORIZONTAL HSS MEMBERS TO HSS COLUMNS SHALL BE FIELD WELDED ALL AROUND WITH AISC MINIMUM FILLET WELDS (OR FLARE-BEVEL GROVE WELDS AT HSS CORNERS) WITH ALL WELDS GROUNDED SMOOTH PER AESS REQUIREMENTS.
   b. FULL PENETRATION AND PARTIAL PENETRATION FIELD WELDS IN MATERIAL OVER 5/16 INCH THICK AND WELDED FIELD SPLICE OF MAIN MEMBERS SHALL BE SUBJECTED TO NON-DESTRUCTIVE TESTING (OTHER THAN VISUAL INSPECTION) BY AN INDEPENDENT LABORATORY.
5. GALVANIZING: ALL SHELF ANGLES, LINTELS IN EXTERIOR WALLS, ALL EXTERIOR STEEL EXPOSED TO THE ELEMENTS, AND ALL ITEMS INDICATED ON THE DRAWINGS AS "GALVANIZED" SHALL BE GALVANIZED.
7. **MISCELLANEOUS:**
   a. THE COLUMNS, ANCHOR RODS, BASE PLATES AND FOUNDATIONS ARE DESIGNED TO RESIST A GRAVITY LOAD MOMENT OF 675 FOOT-POUNDS DURING ERECTION, IF SHIM PACKS ARE PROVIDED AT THE EXTREME EDGES ALONG ALL FOUR SIDES OF THE BASE PLATE. FOR SAFETY CONSIDERATIONS DURING ERECTION, SEE STRUCTURAL NOTE A1.
   b. PROVIDE HOLES FOR OTHERS. IF OPENING IS NOT SHOWN ON THE STRUCTURAL DRAWINGS, OBTAIN PRIOR APPROVAL.
   c. STEEL SUPPORTING OR CONNECTING TO HVAC AND OTHER EQUIPMENT AND ROOF OPENINGS AS SHOWN ON DRAWINGS ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL COORDINATE EXACT SIZE AND LOCATION BEFORE PROCEEDING WITH HIS WORK.
   d. THE USE OF LEVELING PLATES AT COLUMN BASES IS PROHIBITED. SEE THE REINFORCED CONCRETE NOTES ABOVE FOR GROUT AND GROUTING REQUIREMENTS.
   e. STEEL BELOW GRADE IS TO BE PROTECTED BY A MINIMUM OF 3 INCHES OF CONCRETE.
   f. PROVIDE WASHER AND HEAVY NUT AT ALL ANCHOR RODS (BOTH ENDS).
8. CONTINGENCY:
   a. INCLUDE AN ALLOWANCE IN THE BID TO PROVIDE AND ERECT ?? ADDITIONAL TONS(S) OF STRUCTURAL AND/OR MISCELLANEOUS STEEL (SHAPES, ANGLES, PLATES, ETC.). MATERIAL TO BE USED AND ITS APPLICATION SHALL BE DETERMINED BY THE ARCHITECT. CONNECTIONS, IF REQUIRED, SHALL BE FIELD-WELDED.

D. METAL DECK

1. MATERIALS:
   a. ROOF DECK: 1 1/2" DEEP X 20 GA MIN TYPE B ROOF DECK, GALVANIZED
2. SPECIFICATIONS:
   a. WELDING PERSONNEL AND PROCEDURES ARE TO BE QUALIFIED PER AWS. DESIGN, FABRICATION AND ERECTION TO BE GOVERNED BY LATEST EDITION OF:
      1. AISI: NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS.
      2. STRUCTURAL WELDING CODE, AWS D1.3 OF THE AMERICAN WELDING SOCIETY.
      3. SDI DESIGN MANUAL FOR FLOOR DECK AND ROOF DECKS.
   b. FABRICATION AND ERECTION TO BE PER SDI REQUIREMENTS.
   c. MANUFACTURER TO BE A MEMBER OF SDI.
3. CONNECTIONS:

DECK TYPE	MAX SPACING	ZONE	FRAME FASTENER		SIDELAP		MIN. DIAPHRAGM	MIN. UPLIFT
			PATTERN	FRAME FASTENER	FASTENER	MAX SPACING		
1.5B ROOF DECK	6'-6"	1	36/4	5/8"Ø PW	#10 screw	36"	286 plf	78 psf
			36/4	ENP 19	SLC 1	36"	500 plf	108 psf
		2 & 3	36/7	5/8"Ø PW	#10 screw	30"	392 plf	165 psf
			36/7	ENP 19	SLC 1	30"	682 plf	217 psf

   a. DIAPHRAGM AND UPLIFT VALUES ARE ASD CAPACITIES
4. FINISH:
   a. GALVANIZED: CONFORM TO ASTM A653, G60.
   b. PAINTED: PHOSPHATIZE OR BONDERIZE, THEN APPLY A COAT OF ENAMEL, VINYL, OR EPOXY PAINT. PAINT SHALL MEET EXPOSURE TO SALT SPRAY, PER ASTM B117-18 FOR 72 HOURS AND WATER IMMERSION, PER ASTMD810-15, FOR 250 HOURS.
5. MISCELLANEOUS
   a. UNITS ARE TO BE CONTINUOUS OVER AT LEAST THREE SPANS WHERE POSSIBLE. WHERE UNITS ARE SINGLE OR DOUBLE SPAN, USE HEAVIER GAGE AS REQUIRED FOR STRESS OR DEFLECTION CONTROL.
   b. FIELD CUTTING TO BE PERFORMED WITH A SAW.
   c. METAL DECK SHOULD BE PROTECTED FROM CORROSION FROM PRESERVATIVE CHEMICALS IN PRESSURE-TREATED LUMBER WITH A MINIMUM 20 MIL VAPOR BARRIER. ALL FASTENERS AND CONNECTORS IN CONTACT WITH PRESSURE TREATED LUMBER ARE TO BE HOT DIPPED GALVANIZED PER ASTM A153 AND ASTM A123 WITH A MINIMUM G185 COATING.
   d. PROVIDE ADDITIONAL SUPPORTS FOR OPENINGS THAT EXCEED 12" IN WIDTH IN ROOF DECK. NOT ALL DECK OPENINGS ARE SHOWN ON THE STRUCTURAL DRAWINGS. COORDINATE WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL PLUMBING AND OTHER TRADERS.

E. POST-INSTALLED ANCHORS

1. GENERAL:
   a. WHERE GENERIC ANCHORAGE SYSTEM IS NOTED IN THE DOCUMENTS, CONTRACTOR CAN SELECT FROM APPROVED MANUFACTURERS LISTED BELOW.
   b. WHERE A SPECIFIC ANCHORAGE SYSTEM IS NOTED IN THE DOCUMENTS, SUBSTITUTION OF ANCHORS FROM THOSE SPECIFIED IS ONLY ALLOWED AFTER ENGINEER REVIEW AND APPROVAL OR AMENDMENT FROM WRITTEN REQUEST BY THE CONTRACTOR.
   c. ALL HOLES SHALL BE DRILLED PERPENDICULAR TO THE CONCRETE SURFACE. HAMMER DRILLING IS REQUIRED FOR ALL ANCHOR INSTALLATION WITH HOLE DIAMETER, DEPTH, AND CLEANING METHOD PER MANUFACTURER'S INSTRUCTIONS.
   d. THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL ANCHOR PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF ANCHOR INSTALLATION.
   e. INSTALLATION OF ADHESIVE ANCHORS IN THE HORIZONTAL OR UPWARDLY INCLINED DIRECTION AND SUPPORTING SUSTAINED TENSION LOADS SHALL BE INSTALLED BY CERTIFIED PERSONNEL BY ACI/CRSI INSTALLATION PROGRAMS. FOR ALL ADHESIVE ANCHORS SUBJECTED TO TENSION LOADING, AN UNCONFINED PROOF LOAD TEST EQUAL TO THE MINIMUM OF 67% OF THE BOND STRENGTH (Nba) OR 80% OF THE ANCHOR YIELD STRENGTH SHALL BE APPLIED FOR 10 SECONDS. (CONSIDERING Φ=0.7, THE BOND STRENGTH TEST LOAD IS APPROXIMATELY EQUAL TO THE MANUFACTURER'S LISTED ULTIMATE CAPACITY.)
      ALL ANCHORS IN CONTACT WITH PRESSURE TREATED LUMBER ARE TO BE HOT DIPPED GALVANIZED PER ASTM A153 WITH A MINIMUM G185 COATING OR STAINLESS STEEL WITH CHEMICAL COMPOSITION CONFORMING TO AISI 303/304 OR AISI 316. FASTENERS AND CONNECTORS ARE TO BE OF THE SAME MATERIAL, STAINLESS STEEL OR HOT DIPPED GALVANIZED, DO NOT MIX MATERIALS.
2. ANCHORAGE SYSTEMS:
   a. EXPANSION ANCHORS IN CONCRETE:
      1. DEWALT: POWER STUD +SDI
      2. HILTI: KWIK-BOLT TZ2
      3. SIMPSON: STRONG-BOLT 2
   b. EXPANSION ANCHORS IN GROUT FILLED MASONRY:
      1. DEWALT: POWER STUD +SDI
      2. HILTI: KWIK BOLT T
      3. SIMPSON: WEDGE-ALL
   c. SCREW ANCHORS IN CONCRETE OR GROUT FILLED MASONRY (1/8" OVERSIZED HOLE IN STEEL ELEMENT):
      1. DEWALT: SCREW-BOLT+
      2. HILTI: KH-EZ SCREW ANCHOR
      3. SIMPSON: TITEN HD
   d. ADHESIVE ANCHORS IN CONCRETE:
      1. DEWALT: AC200+, PURE 50+, PURE 110+
      2. HILTI: HIT-HY 200 V3, HIT-RE 500 V3, HIT-RE 100
      3. SIMPSON: AT-XP
   e. ADHESIVE ANCHORS IN MASONRY (SCREEN TUBES REQUIRED IN HOLLOW MASONRY):
      1. DEWALT: AC100+ GOLD
      2. HILTI: HIT-HY 270 (USE SCREEN TUBES IN MULTI-WYTHE MASONRY OR BRICK WITH HOLES)
      3. SIMPSON: SET-XP
   f. SLEEVE ANCHORS:
      1. DEWALT
      2. HILTI: HLC
      3. SIMPSON:
3. MINIMUM EMBEDMENT LENGTH OF ANCHORS INTO CONCRETE OR MASONRY SHALL BE AS FOLLOWS U.N.O.:
   a. 1/2"Ø ANCHOR: 3-1/2" EMBEDMENT
   b. 5/8"Ø ANCHOR: 4-1/4" EMBEDMENT
   c. 3/4"Ø ANCHOR: 5" EMBEDMENT

F. SPECIAL INSPECTIONS AND TESTING

1. INSPECTION AGENCY:
   a. INSPECTION AGENCY OR INDIVIDUAL SHALL BE RETAINED AS INDICATED IN THE SPECIFICATIONS TO CONDUCT THE INSPECTIONS AND TESTING OUTLINED BELOW AND AS DEFINED IN CHAPTERS 16 AND 17 OF THE 2024 EDITION OF THE OHIO BUILDING CODE.
   b. SPECIAL INSPECTORS SHALL KEEP RECORDS OF ALL INSPECTIONS AND TESTS AND SUBMIT RECORDS TO THE ARCHITECT (1704.1.2).
   c. THE GENERAL CONTRACTOR SHALL NOTE IN THE SPACES BELOW, ON THE RECORD SET OF DRAWINGS KEPT ON-SITE, THE AGENCY OR INDIVIDUAL RETAINED TO CONDUCT THE SPECIAL INSPECTIONS AND TESTS.
   d. *****SPECIAL INSPECTIONS FORMS CAN BE PROVIDED UPON REQUEST*****
2. MATERIALS:
   a. SOIL:
      1. BEARING CAPACITY — PERIODIC
   b. CONCRETE:
      1. MIX DESIGNS — PERIODIC
      2. ANCHOR BOLT PLACEMENT — CONTINUOUS
      3. REINFORCING PLACEMENT — CONTINUOUS
      4. CONCRETE SAMPLING — CONTINUOUS
      5. CURING TECHNIQUES — PERIODIC
   c. STRUCTURAL STEEL:
      1. HIGH STRENGTH BOLTING - SNUG TIGHT — PERIODIC
      2. HIGH STRENGTH BOLTING - SLIP CRITICAL — CONTINUOUS
      3. MATERIAL CERTIFICATES OF COMPLIANCE — PERIODIC
      4. WELDING - FILLET WELDS AND HEADED STUDS — PERIODIC
      5. WELDING - PARTIAL AND FULL PENETRATION — CONTINUOUS
      6. INSPECTION OF STEEL FRAME — PERIODIC
   d. METAL DECKING:
      1. WELDING — PERIODIC
      2. VERIFICATION OF DECK TYPE, GAGE AND FINISH — PERIODIC
      3. SIDELAP FASTENING — PERIODIC

G. STRUCTURAL LUMBER

1. MATERIALS:
   a. STRUCTURAL LUMBER INCLUDING BEARING AND EXTERIOR WALL STUDS: SPRUCE-PINE-FIR NO. 1/NO. 2 OR BETTER. LUMBER FOR NON-LOAD BEARING STUD WALLS: SPRUCE-PINE-FIR STUD GRADE OR BETTER. ALLOWABLE STRESSES PER THE NATIONAL DESIGN SPECIFICATION SUPPLEMENT 2005 EDITION. 15%(19%) MAX. MOISTURE CONTENT.
   b. PLYWOOD:
      1. ROOFS: 5/8 INCH THICK, WITH PLYWOOD CLIPS, C-D PLUGGED, STRUCTURAL I, EXPOSURE 1, 5 PLY, WITH PANEL INDEX OF 24/0.
2. SPECIFICATIONS: UNLESS SPECIFICALLY SHOWN OTHERWISE, DESIGN, FABRICATION AND ERECTION SHALL BE GOVERNED BY THE LATEST EDITION OF:
   a. NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION.
   b. U.S. PRODUCT STANDARD PS1
3. CONNECTIONS:
   a. PLYWOOD OR OSB TO ROOF TRUSSES OR RAFTERS: NAILED - USE 6d RING SHANK NAILS AT 6 INCHES O.C. AT PANEL EDGES AND 12 INCHES O.C. AT INTERMEDIATE SUPPORTS. PROVIDE PLYWOOD CLIPS AT MID-SPAN OF PLYWOOD BETWEEN SUPPORTS.
   b. UNLESS NOTED OTHERWISE, CONNECTIONS SHALL BE MADE PER TABLE 2304.9.1 "FASTENING SCHEDULE", IN REFERENCED BUILDING CODE. STAPLES NOT PERMITTED FOR FASTENING APA RATED SHEATHING AND SUB-FLOORING.
   c. ALL CONNECTION HARDWARE SPECIFIED ON THE STRUCTURAL DRAWINGS SHALL BE MANUFACTURED BY THE SIMPSON STRONG-TIE COMPANY AND SHALL BE FASTENED AS SPECIFIED IN THE SIMPSON PRODUCT AND INSTRUCTION MANUAL.
   d. ALL NAILS AND FASTENERS WITH EXTERIOR EXPOSURE OR FOR USE IN PRESSURE TREATED LUMBER SHALL BE HOT DIP GALVANIZED OR STAINLESS STEEL.
4. **MISCELLANEOUS:**
   a. PROTECT ALL LUMBER FROM WEATHER PRIOR TO INSTALLATION.

H. ABBREVIATIONS:

B. = BOTTOM
C.I.P. = CAST IN PLACE
CMU = CONCRETE MASONRY UNIT
(E) = EXISTING
E.W. = EACH WAY
F.V. = FIELD VERIFY
GALV. = GALVANIZED
N.T.S. = NOT TO SCALE
O.C. = ON CENTER
S.O.G. = SLAB ON GRADE
T. = TOP
T.O.F. = TOP OF FOOTING ELEVATION
T.O.S. = TOP OF SLAB ELEVATION
T.O.STL. = TOP OF STEEL ELEVATION
TYP. = TYPICAL
U.N.O. = UNLESS NOTED OTHERWISE
V.I.F. = VERIFY IN FIELD

I. LEGEND:

CAST-IN-PLACE CONCRETE
HOLLOW CMU
100% SOLID OR GROUT FILLED CMU
12S532 REINFORCED CMU

KORDA
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DRAWN BY: William Hines
DESIGNED BY: Cameron Mailer
CHECKED BY: Pat Carney
PROJECT NUMBER: 2026-0204

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STATE OF OHIO
04/10/2026

TROY AQUATIC PARK MAINTENANCE IMPROVEMENTS

CITY OF TROY RECREATION
460 WEST STAUNTON DRIVE TROY, OHIO 45373

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PROJECT NO. **25306.00**

DRAWING TITLE:
STRUCTURAL NOTES

S001

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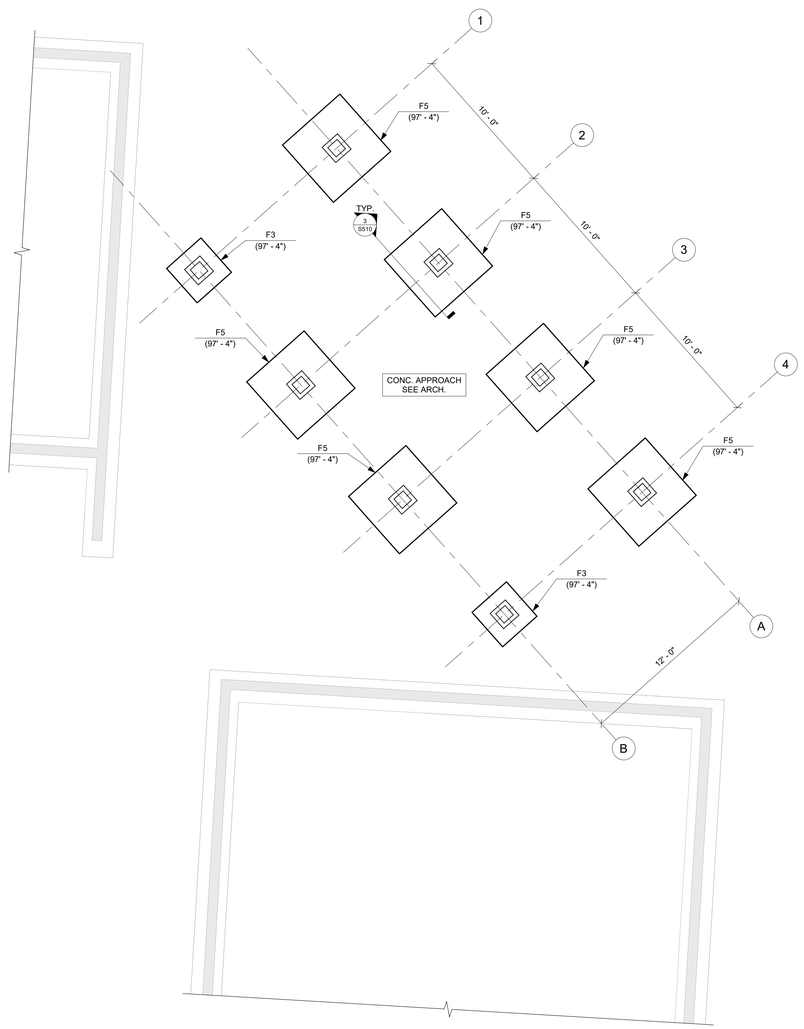


A FOUNDATION PLAN

SCALE: 1/4" = 1'-0"

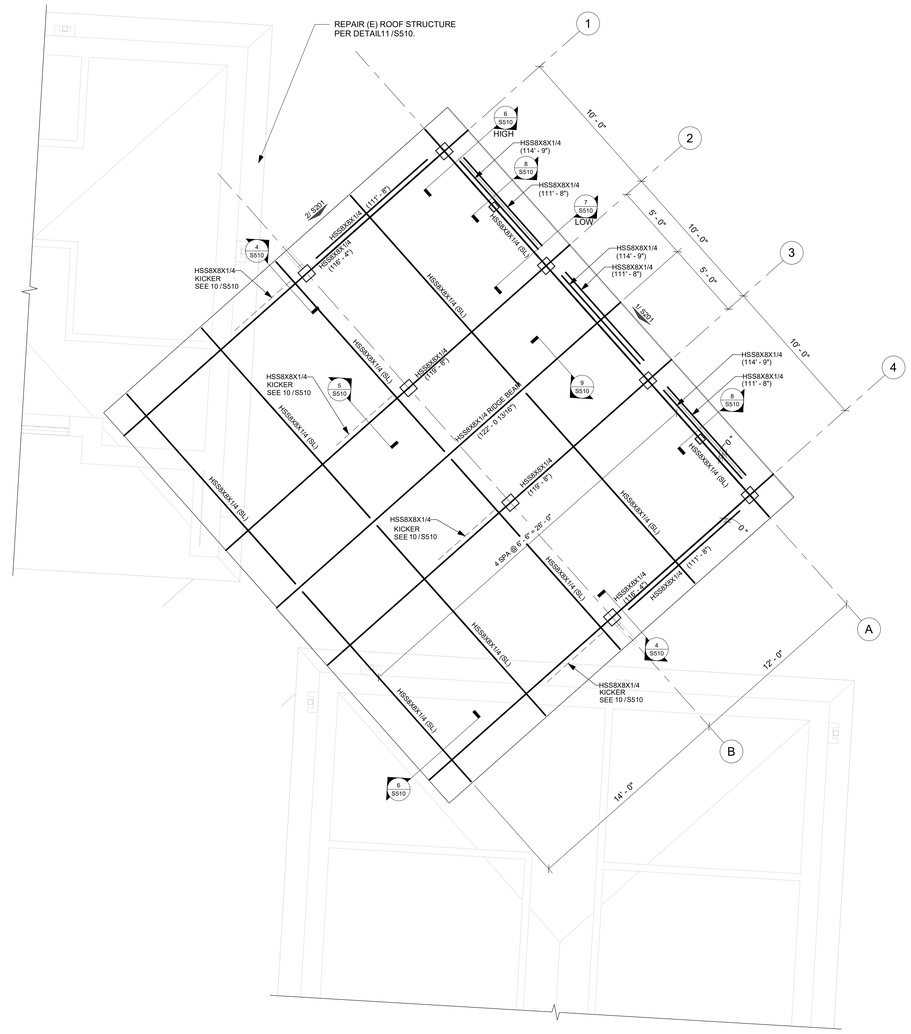
0' 1' 2' 4' 8'

FOUNDATION NOTES

1. SEE ARCHITECTURAL DRAWINGS FOR CONCRETE APPROACH SLAB. REFERENCE ELEVATION 100' - 0" SHALL BE SET AS THE HIGHEST ELEVATION ADJACENT TO A NEW COLUMN.
2. FOUNDATIONS SHALL BE FOUNDED ON VIRGIN SOIL OR ON ENGINEERED FILL AT THE ELEVATIONS SHOWN WITH AN ASSUMED DESIGN BEARING CAPACITY OF 1.5 KSF. BEARING CAPACITY TO BE VERIFIED PRIOR TO PLACING CONCRETE.
3. KEEP FOUNDATION EXCAVATIONS FREE OF WATER AT ALL TIMES. REPLACE SOFT OR WEAKENED SOIL WITH CLASS IV CONCRETE.
4. ELEVATIONS SHOWN AT FOOTINGS ARE TOP OF FOOTING ELEVATION (T.O.F.).
5. ALL EXTERIOR FOOTINGS TO BEAR MIN. 3'-0" BELOW ADJACENT GRADE. ADJUST BOTTOM OF FOOTING AS REQUIRED.
6. ALL EXTERIOR T.O.F. = 97'-4", U.N.O.
7. TOP OF STEEL COLUMN ENCASEMENTS SHALL MATCH THE TOP OF ADJACENT GRADE.
8. FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS RELATED TO EXISTING BUILDING PRIOR TO START OF NEW CONSTRUCTION.
9. HALFTONE LINES AND SHADED FILL INDICATE ASSUMED EXISTING FOUNDATIONS. NOTIFY ARCHITECT IMMEDIATELY, IF EXISTING CONDITIONS DIFFER FROM WHAT IS SHOWN.
10. SEE SHEET S510 FOR FOOTING AND STEEL COLUMN ENCASEMENT INFORMATION.
11. SEE SHEET S001 FOR STRUCTURAL NOTES AND LEGEND.

FOOTING SCHEDULE (1500 PSF SOIL)

Mark	Size			Bottom Reinforcement
	Length	Width	Thickness	
F3	3' - 0"	3' - 0"	1' - 6"	4#5 E.W. T&B
F5	5' - 0"	5' - 0"	1' - 6"	6#5 E.W. T&B



B ENTRY ROOF FRAMING PLAN

SCALE: 1/4" = 1'-0"

0' 1' 2' 4' 8'

ROOF FRAMING NOTES

1. DESIGN ROOF LIVE LOADS - SEE STRUCTURAL NOTES.
2. ROOF CONSTRUCTION: 1-1/2-INCH - STEEL ROOF DECK w/ 5/8" PLYWOOD SHEATHING, U.N.O.
3. TOP OF STEEL ELEVATION (T.O.STL.) = SEE PLAN
4. ALL STRUCTURAL STEEL TO BE AESS LEVEL 2 & SHALL BE GALVANIZED & PAINTED
5. ELEVATIONS SHOWN INDICATE THE FOLLOWING:

   AT BEAMS: TOP OF BEAM EL. (U.N.O.)

   WORKPOINTS AT SLOPING MEMBERS ARE AT CENTERLINES OF COLUMNS, OR SUPPORTING BEAMS AND AT INSIDE FACE OF WALLS, U.N.O.
6. SEE SHEET S001 FOR STRUCTURAL NOTES AND LEGEND.

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TROY AQUATIC PARK MAINTENANCE IMPROVEMENTS

CITY OF TROY RECREATION

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PROJECT NO. **25306.00**

DRAWING TITLE:

FOUNDATION AND FRAMING PLAN

S101

KORDA
KORDA: NEMETH ENGINEERING
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DESIGNED BY:	Cameron Mailer
CHECKED BY:	Pat Carney
PROJECT NUMBER	2026-0204

DRAWN BY: William Hines CHECKED BY: Pat Carney

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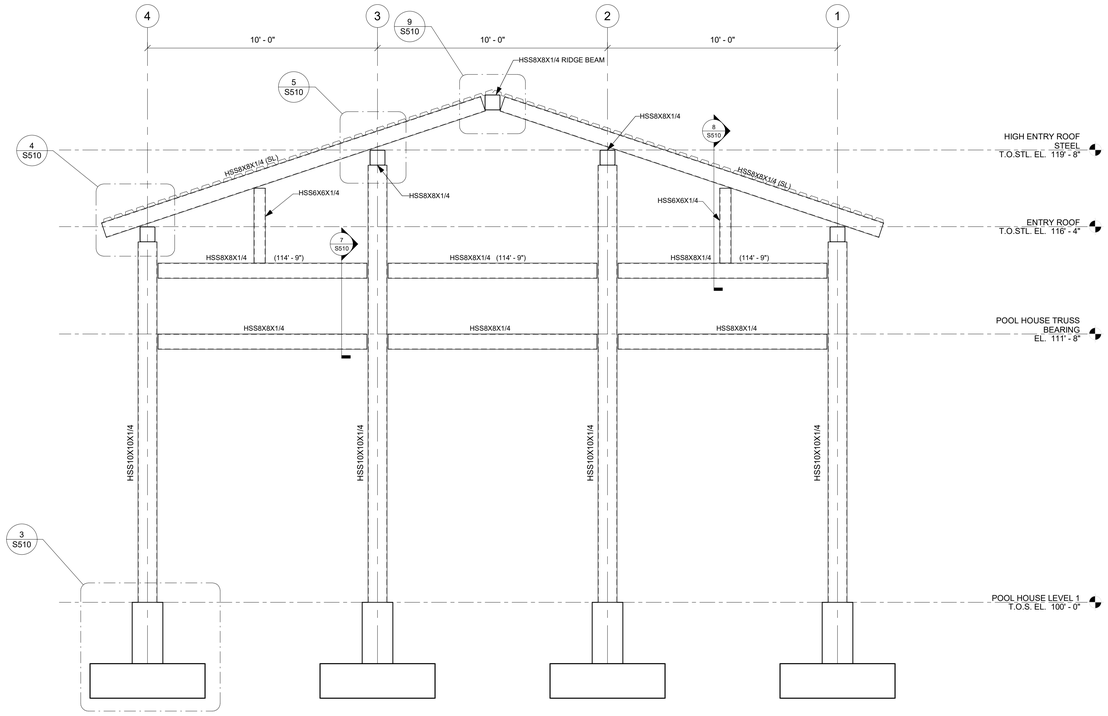
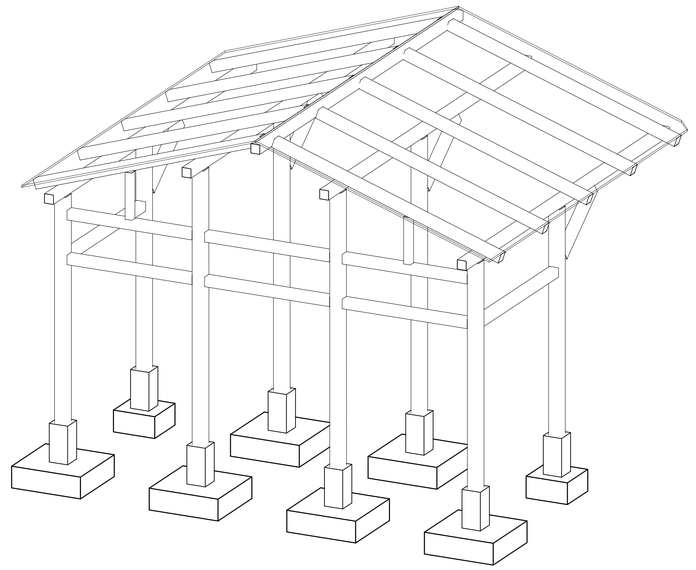


1 ELEVATION

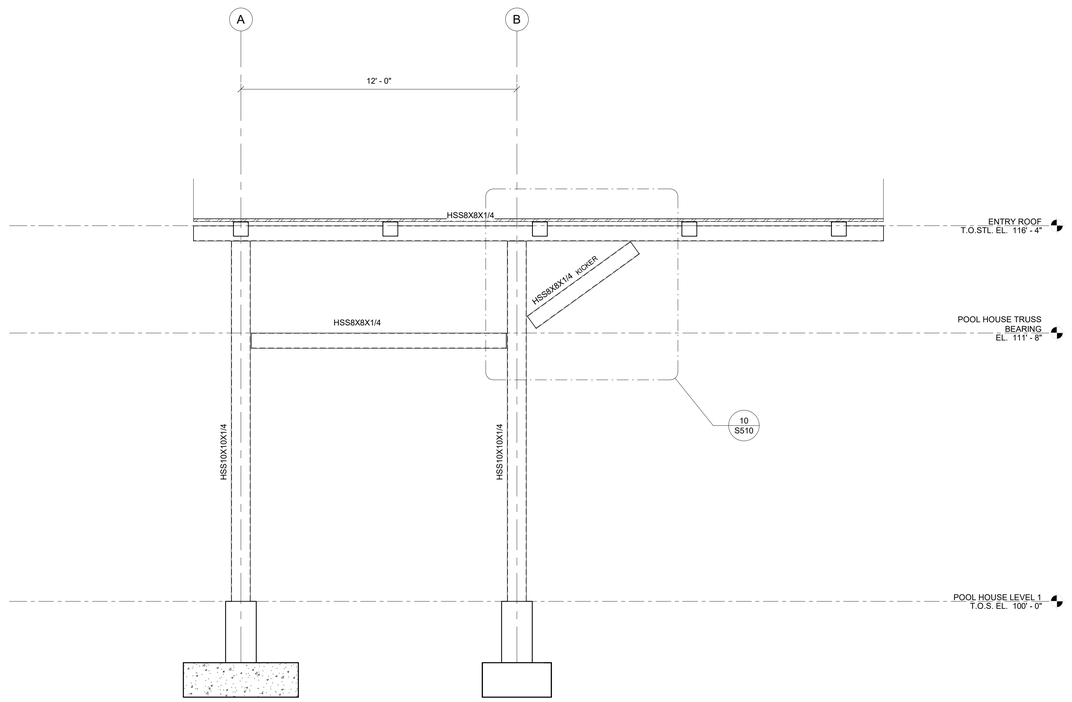
SCALE: 3/8" = 1'-0"

0' 1' 2' 4' 8'



A ISOMETRIC

N.T.S.



2 ELEVATION

SCALE: 3/8" = 1'-0"

0' 1' 2' 4' 8'

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PROJECT NO. **25306.00**

DRAWING TITLE:

ELEVATION AND ISOMETRIC VIEWS

KORDA
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S201

DRAWN BY: William Hines CHECKED BY: Pat Carney

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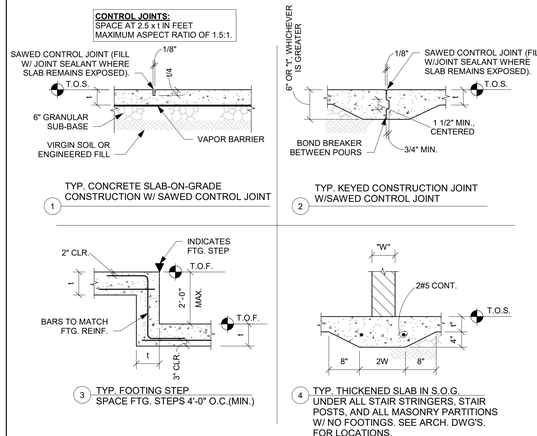
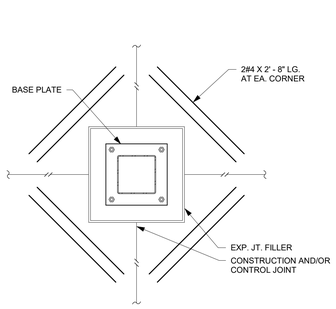
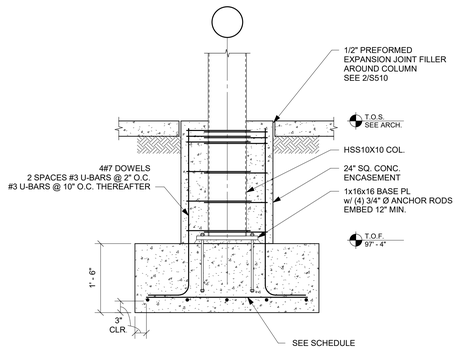


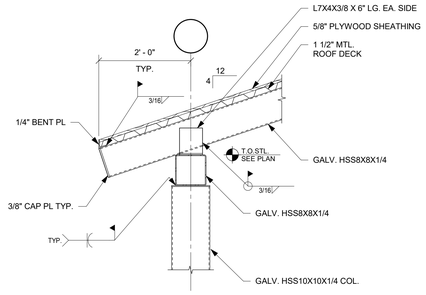
1 SECTION
TYP. CONTROL JT, FTG STEP,THK. SLAB
N.T.S.



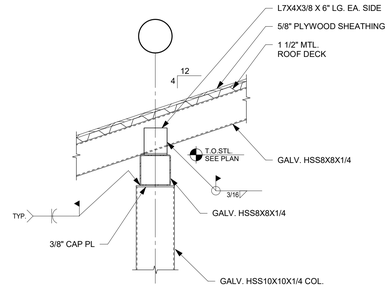
2 DETAIL
TYPICAL ISOLATION JOINT DETAIL IN S.O.G. AT STEEL COLUMNS
N.T.S.



3 SECTION
SCALE: 3/4" = 1'-0"
0' 3" 6" 1' 2'



4 SECTION
SCALE: 3/4" = 1'-0"
0' 3" 6" 1' 2'



5 SECTION
SCALE: 3/4" = 1'-0"
0' 3" 6" 1' 2'

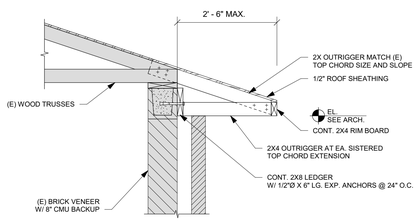
6 SECTION
SCALE: 3/4" = 1'-0"
0' 3" 6" 1' 2'

7 SECTION
SCALE: 3/4" = 1'-0"
0' 3" 6" 1' 2'

8 SECTION
SCALE: 3/4" = 1'-0"
0' 3" 6" 1' 2'

9 SECTION
SCALE: 3/4" = 1'-0"
0' 3" 6" 1' 2'

10 SECTION
TYPICAL KICKER CONNECTION
SCALE: 3/4" = 1'-0"
0' 3" 6" 1' 2'



11 SECTION
TYPICAL REPAIR AT EXISTING ROOF STRUCTURE
SCALE: 3/4" = 1'-0"
0' 3" 6" 1' 2'

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STATE OF OHIO
PATRICK W. CARNEY
E-63421
REGISTERED PROFESSIONAL ENGINEER
04/10/2026

TROY AQUATIC PARK MAINTENANCE IMPROVEMENTS

CITY OF TROY RECREATION
460 WEST STAUNTON DRIVE TROY, OHIO 45373

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NO.	DATE	ISSUED / REVISION
	04/10/26	BID SET

PROJECT NO. **25306.00**

DRAWING TITLE:
STRUCTURAL DETAILS

KORDA
KORDA. NEMETH ENGINEERING
WWW.KORDA.COM
DRAWN BY: William Hines
DESIGNED BY: Cameron Mailer
CHECKED BY: Pat Carney
PROJECT NUMBER: 2026-0204

S510

DRAWN BY: Jesse Whitehead

PLUMBING SYMBOLS LIST

NOTE: ALL SYMBOLS NOT NECESSARILY USED

GENERAL

EXISTING TO REMAIN	
EXISTING TO BE REMOVED	
EXISTING TO BE ABANDONED	
FUTURE	
FLOW ARROW	
UNDER FLOOR PIPING	
TYPICAL	(TYP), (TYP #)
INVERT ELEVATION	IE
UNLESS NOTED OTHERWISE	UNO
ABOVE FINISHED FLOOR	AFF
NOT IN CONTRACT	NIC
ITEM PROVIDED BY ANOTHER CONTRACTOR	OC
CONNECT TO EXISTING	OR CTE
SANITARY STACK	SS
EXISTING TO REMAIN	(E)
EXISTING TO BE REMOVED / DEMOLISHED	(R)
EXISTING TO BE ABANDONED	(AB)

PIPING

WATER SERVICE	W
DOMESTIC COLD WATER	DCW
SOFT WATER	SW
DOMESTIC HOT WATER (XXX°F)	DHW (XXX°F)
TEMPERED WATER (XXX°F)	TW (XXX°F)
DOMESTIC HOT WATER RETURN (XXX°F)	DHWR (XXX°F)
RAW WATER	RW
DISTILLED WATER	DW
DEIONIZED WATER	DE
SANITARY	SAN
ACID WASTE	AW
HOT WASTE	HW
INDIRECT WASTE	IND
COMBINATION SEWER	COMB
FAT, OIL AND GREASE WASTE	FOG
STORM	STM
UNDER DRAIN	UD
EMERGENCY STORM	E-STM
PUMPED DISCHARGE	PD
VENT	V
ACID VENT	AV
FUEL OIL SUPPLY	FOS
FUEL OIL RETURN	FOR
FUEL OIL VENT	FOV
NATURAL GAS	G
PROPANE	P
MEDICAL OXYGEN	O2
MEDICAL AIR	MA
INSTRUMENT AIR	IA
COMPRESSED AIR	CA
VACUUM	VAC
VACUUM CLEANING	VC
MEDICAL VACUUM	MV
WASTE GAS DISPOSAL	WAGD
NITROGEN	N2
NITROUS OXIDE	N2O
CARBON DIOXIDE	CO2

VALVES

- BACKFLOW PREVENTER (BP)
- BALANCING/SHUT-OFF VALVE WITH GAUGE TAPPINGS
- BALL VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- GAS PRESSURE REGULATOR
- GATE VALVE
- GLOBE VALVE
- PLUG VALVE
- PRESSURE REDUCING VALVE
- PRESSURE RELIEF VALVE
- SOLENOID VALVE
- STRAINER

SPECIALTIES AND MISCELLANEOUS

- CAPPED PIPE
- PIPE SLEEVE
- FLEXIBLE CONNECTION
- GAUGE
- METER
- P-TRAP
- PIPE DROP
- PIPE RISE
- THERMOMETER
- THROUGH FLOOR AT LEVEL SHOWN
- UNION
- VENT THROUGH ROOF (VTR)
- CLEANOUT (CO)
- WALL HYDRANT (FREEZE PROOF)
- HOSE BIBB
- YARD HYDRANT
- SHOCK ABSORBER
- FLOOR OR AREA DRAIN
- ROOF DRAIN (RD)
- VALVE IN RISER/DROP
- HEAT TRACED PIPE

MEDICAL GAS OUTLETS

MEDICAL OXYGEN OUTLET	O
MEDICAL AIR OUTLET	A
MEDICAL VACUUM OUTLET	V
CARBON DIOXIDE OUTLET	C
NITROGEN OUTLET	N
NITROUS OXIDE OUTLET	NO
INSTRUMENT AIR OUTLET	I
SLIDE	S
WASTE ANESTHESIA GAS DISPOSAL	W

PLUMBING FIXTURE SCHEDULE

MANUFACTURERS AS INDICATED SERVE AS BASIS OF DESIGN. FOR ADDITIONAL ACCEPTABLE MANUFACTURERS, REFER TO SPECIFICATIONS.

1 = WALL MOUNTED 2 = FLOOR MOUNTED 3 = FULLY RECESSED 4 = SEMI-RECESSED 5 = COUNTERTOP 6 = VITREOUS CHINA 7 = STAINLESS STEEL 8 = STEEL 9 = FIBERGLASS 10 = PRECAST TERRAZO 11 = MOLDED STONE 12 = BRASS 13 = CAST IRON 14 = WHITE 15 = CHROME PLATED 16 = AS PER MFR. STANDARD 17 = AS INDICATED ● = PROVIDE PER SPECIFICATIONS

TAG	ADA	DESCRIPTION	PIPE CONNECTIONS				MFR. AND MODEL NUMBER	MOUNTING	MATERIAL	COLOR	CARRIER	FITTINGS AND TRIM - MFR. AND MODEL NO.		REMARKS
			SAN	VENT	DCW	DHW						FLUSH VALVE, FAUCET or MIXING VALVE	STRAINER	
L1	●	LAVATORY	2"	1½"	½"	½"	-	5	-	-	N	CHICAGO 420-ABCP	MCGUIRE 2165LK MCGUIRE 155WC MCGUIRE 8902	-

PLUMBING SHEET INDEX

SHEET NUMBER	SHEET NAME
P001	PLUMBING INDEX SHEET
P201	PLUMBING PLANS

GENERAL NOTES – PLUMBING (APPLY TO ALL PLUMBING DRAWINGS)

1. THE SYSTEM DESIGN IS BASED ON THE LATEST EDITION OF THE OHIO PLUMBING CODE, INCLUDING ALL AMENDMENTS THROUGH THE DATE OF DRAWING ISSUE.
2. UNLESS NOTED OTHERWISE, SLOPE ALL SANITARY PIPING AT NO LESS THAN 1/8" PER FOOT. ALL SANITARY PIPING SMALLER THAN 3" SHALL BE SLOPED AT NO LESS THAN ¼" PER FOOT.
3. REFER TO PIPING DIAGRAMS, DETAILS, AND STACKS FOR PIPING AND PIPE SIZES NOT SHOWN ON THE FLOOR PLANS. PIPE SIZES SERVING INDIVIDUAL FIXTURES ARE INDICATED ON THE PLUMBING FIXTURE SCHEDULE.
4. PROVIDE ISOLATION VALVES IN ALL SUPPLY BRANCHES SERVING MULTIPLE FIXTURES. PROVIDE ADDITIONAL ISOLATION VALVES AS SHOWN ON THE DRAWINGS. PROVIDE BALANCING VALVES ON ALL HOT WATER RETURN PIPE BRANCHES.
5. ALL CONNECTIONS TO GAS FIRED EQUIPMENT SHALL BE MADE WITH DIRT LEG, UNION AND SHUT OFF VALVE. PIPE ALL APPLIANCE REGULATOR VENTS TO THE BUILDING EXTERIOR PER NFPA.

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TROY AQUATIC PARK MAINTENANCE IMPROVEMENTS

CITY OF TROY RECREATION

460 WEST STAUNTON DRIVE TROY, OHIO 45373

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NO.	DATE	ISSUED / REVISION
	04/10/26	BID SET

PROJECT NO. **25306.00**

DRAWING TITLE:

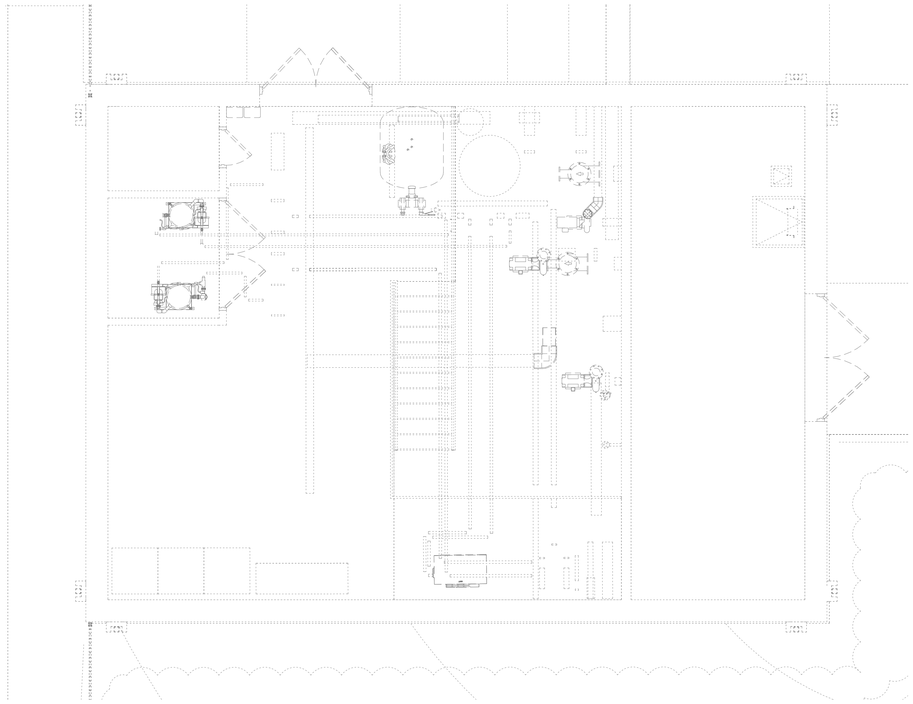
PLUMBING INDEX SHEET

KORDA
KORDA. NEMETH ENGINEERING
WWW.KORDA.COM

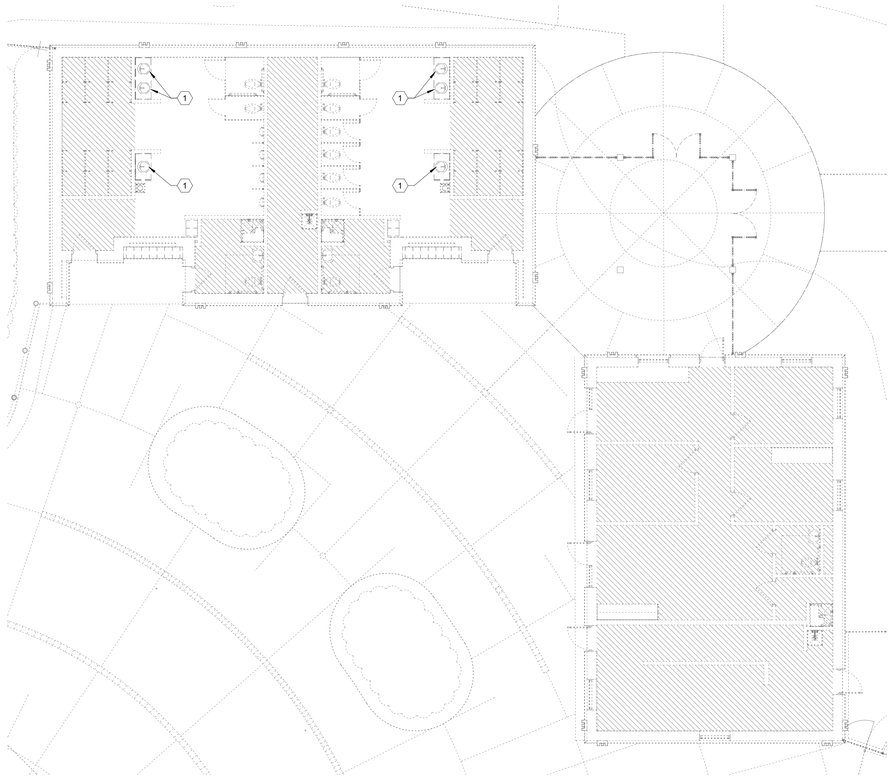
DRAWN BY:	Jesse Whitehead
DESIGNED BY:	Greg Duffey
CHECKED BY:	
PROJECT NUMBER:	2026-0204

P001

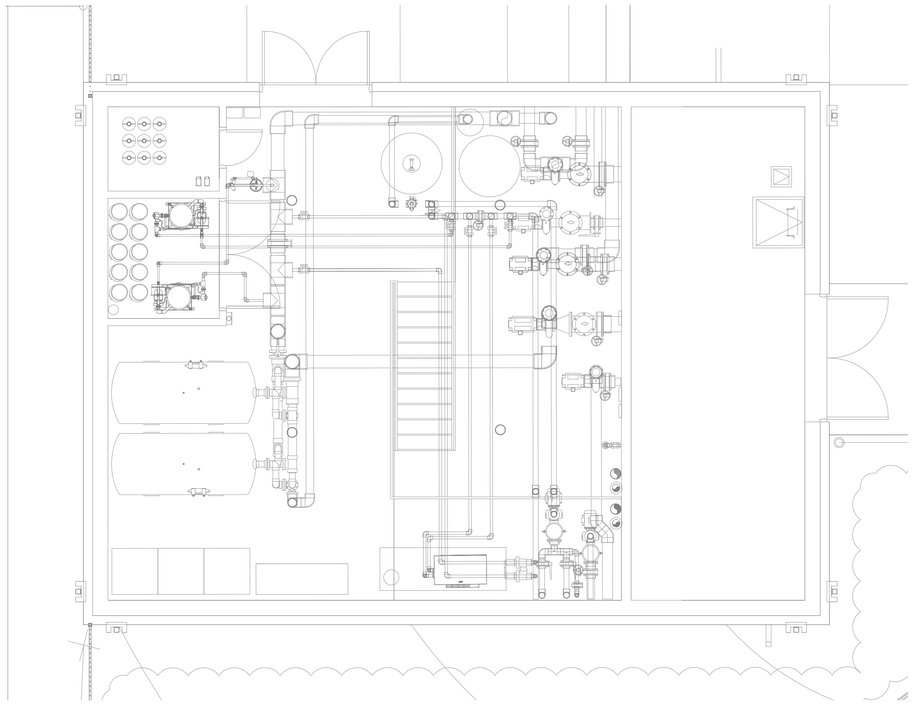
4/10/2026 11:50:10 AM Autodesk Docs://25306.00_City of Troy Aquatic Park Improvements & Maintenance/R24-260204 City of Troy Aquatic Park - MECH.rvt



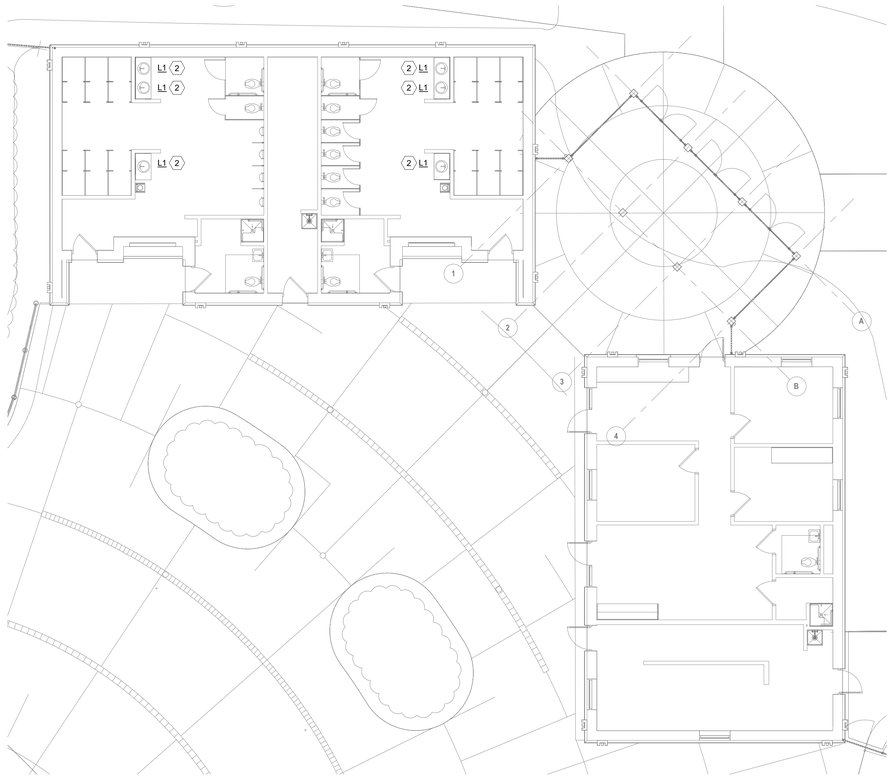
1 FLOOR PLAN
MECHANICAL BUILDING - LEVEL 1 DEMOLITION
SCALE: 1/4" = 1'-0"
0' 1' 2' 4'



3 FLOOR PLAN
POOL HOUSE - LEVEL 1 DEMOLITION
SCALE: 1/8" = 1'-0"
0' 1' 2' 4' 8'



2 FLOOR PLAN
MECHANICAL BUILDING - LEVEL 1 NEW WORK
SCALE: 1/4" = 1'-0"
0' 1' 2' 4'



4 FLOOR PLAN
POOL HOUSE - LEVEL 1 NEW WORK
SCALE: 1/8" = 1'-0"
0' 1' 2' 4' 8'

CODED NOTES:

1. REMOVE EXISTING LAVATORY, FAUCET, SUPPLIES, SUPPLY STOPS, TRAP AND TAILPIECE BACK TO EXISTING ROUGH-IN TO REMAIN.
2. INSTALL NEW LAVATORY, FAUCET, TRAP, ANS SUPPLIES.

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TROY AQUATIC PARK MAINTENANCE IMPROVEMENTS

CITY OF TROY RECREATION
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	04/10/26	BID SET

PROJECT NO. **25306.00**

DRAWING TITLE:
PLUMBING PLANS

KORDA
KORDA / NEMETH ENGINEERING
WWW.KORDA.COM

DRAWN BY:	Jesse Whitehead
DESIGNED BY:	Greg Duffey
CHECKED BY:	
PROJECT NUMBER:	2026-0204

P201

DRAWN BY: Jesse Whitehead

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DRAWN BY: Jesse Whitehead CHECKED BY: Marie Ruth

HVAC SYMBOLS LIST
NOTE: ALL SYMBOLS NOT NECESSARILY USED

GENERAL

UNDERFLOOR PIPING OR DUCTWORK	------- ( ) -------
EXISTING TO REMAIN	.....
EXISTING TO BE REMOVED	– – – – – – – –
EXISTING TO BE ABANDONED	.....
TYPICAL	(TYP), (TYP #)
INVERT ELEVATION	IE
UNLESS NOTED OTHERWISE	UNO
ABOVE FINISHED FLOOR	AFF
NOT IN CONTRACT	NIC
ITEM PROVIDED BY ANOTHER CONTRACTOR	OC
CONNECT TO EXISTING	
EXISTING TO REMAIN	(E)
EXISTING TO BE REMOVED / DEMOLISHED	(R)
EXISTING TO BE ABANDONED	(AB)

MISCELLANEOUS

DUCT ACCESS DOOR — A.D. / A.D.

FIRE DAMPER — FD

SMOKE DAMPER — SD

COMB. FIRE/SMOKE DAMPER — CD

DUCT VOLUME DAMPER

MOTOR OPERATED DAMPER — M

DUCT CHANGE IN ELEVATION — UP (OR DOWN)

FLEX DUCT

TURNING VANES

SPIN-IN FITTING

DUCT SECTIONS

POSITIVE PRESSURE (SUPPLY/OUTSIDE) — RISE / DROP

NEGATIVE PRESSURE (RETURN/RELIEF) — RISE / DROP

NEGATIVE PRESSURE (EXHAUST) — RISE / DROP

CARBON DIOXIDE SENSOR — C

HUMIDISTAT OR HUMIDITY SENSOR (MOUNT 48" A.F.F. U.N.O.) — H

ROOM PRESSURE MONITOR (MOUNT 48" A.F.F. U.N.O.) — P

THERMOSTAT OR SPACE TEMPERATURE SENSOR (MOUNT 48" A.F.F. U.N.O.) — T

SMOKE DETECTOR BY DIV. 26
DIV 23 TO PROVIDE DUCT ACCESS DOOR AT EACH OF THESE LOCATIONS — S

DIFFUSER

RETURN AIR DEVICE

TERMINAL BOXES, WITH/WITHOUT REHEAT

GENERAL NOTES – HVAC (APPLY TO ALL HVAC DRAWINGS)

1. THE SYSTEM DESIGN IS BASED ON THE LATEST EDITION OF THE OHIO MECHANICAL CODE INCLUDING ALL AMENDMENTS THROUGH THE DATE OF DRAWING ISSUE.
2. THE EXISTING AND DEMOLITION DRAWINGS HAVE BEEN GENERATED BASED ON RECORD DRAWINGS AND LIMITED FIELD INVESTIGATIONS. ALL EXISTING WORK MUST BE FIELD VERIFIED PRIOR TO BEGINNING CONSTRUCTION. FIELD VERIFY EXACT SIZES AND LOCATIONS OF ALL EXISTING EQUIPMENT, DUCTWORK AND PIPING BEFORE GENERATING COORDINATION DRAWINGS.
3. PRIOR TO ANY DEMOLITION, VERIFY WHICH EQUIPMENT IS TO BE REMOVED AND TURNED OVER TO THE OWNER. ALL OTHER ITEMS ARE TO BE REMOVED FROM THE SITE BY THE CONTRACTOR. PROTECT EXISTING EQUIPMENT THAT IS TO REMAIN IN SERVICE. ALL EXISTING DUCTWORK AND PIPING INSULATION THAT IS DAMAGED DURING THE DEMOLITION OR NEW WORK PROCESS SHALL BE REPLACED.
4. NOTE THAT ALL EXISTING SYSTEMS SERVE AREAS OUTSIDE OF THE RENOVATION AND MUST REMAIN IN OPERATION THROUGHOUT THE PROJECT. COORDINATE REQUIRED SHUTDOWNS WITH OWNER'S REPRESENTATIVE. CAP AND SEAL ALL REMAINING DUCTWORK AND PIPING IMMEDIATELY AFTER DEMOLITION OF PORTIONS OF SYSTEM.
5. CLOSE ALL OPENINGS IN WALLS, CEILINGS, AND FLOORS, WHETHER EXPOSED OR CONCEALED, THAT ARE THE RESULT OF REMOVING DUCTWORK, PIPING, OR OTHER MECHANICAL ELEMENTS. MATCH ADJACENT SURFACE CONDITIONS.
6. ALL NEW WORK SHALL BE SUPPORTED BY NEW HANGERS AND SUPPORTS, FULLY INDEPENDENT OF EXISTING HANGERS. THE USE OF EXISTING HANGERS FOR NEW WORK IS PROHIBITED.

HVAC SHEET INDEX

SHEET NUMBER	SHEET NAME
H001	HVAC INDEX SHEET
H201	HVAC PLANS

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STATE OF OHIO — MARIE RUTH — E-83422 — REGISTERED PROFESSIONAL ENGINEER — 4/10/26

TROY AQUATIC PARK MAINTENANCE IMPROVEMENTS

CITY OF TROY RECREATION

460 WEST STAUNTON DRIVE TROY, OHIO 45373

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PROJECT NO. **25306.00**

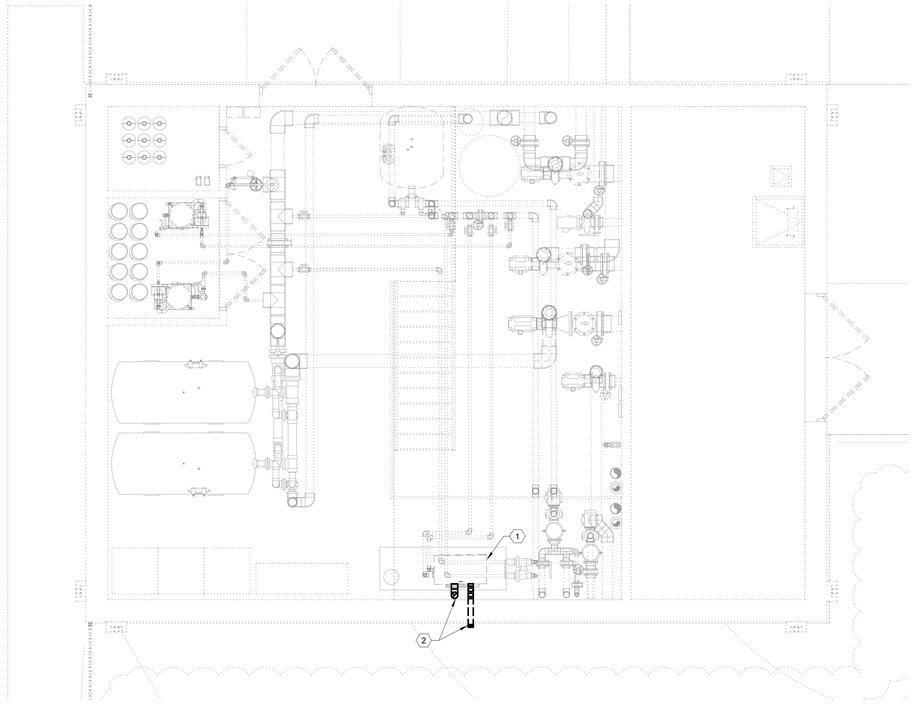
DRAWING TITLE:
HVAC INDEX SHEET

KORDA
KORDA | NEMETH ENGINEERING
WWW.KORDA.COM
DRAWN BY: Jesse Whitehead
DESIGNED BY: Megan Mayotte
CHECKED BY: Marie Ruth
PROJECT NUMBER: 2026-0204

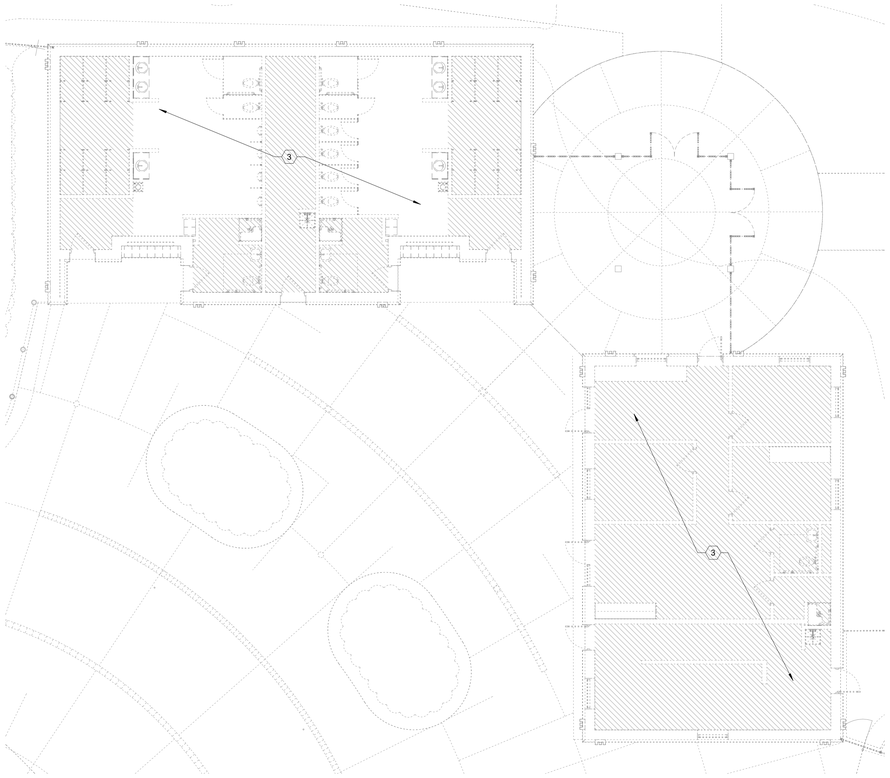
H001

4/10/2026 11:49:54 AM Autodesk Docs://25306.00_City of Troy Aquatic Park Improvements & Maintenance/R24-26\20204 City of Troy Aquatic Park - MECH.rvt

DRAWN BY: Jesse Whitehead CHECKED BY: Marie Ruth



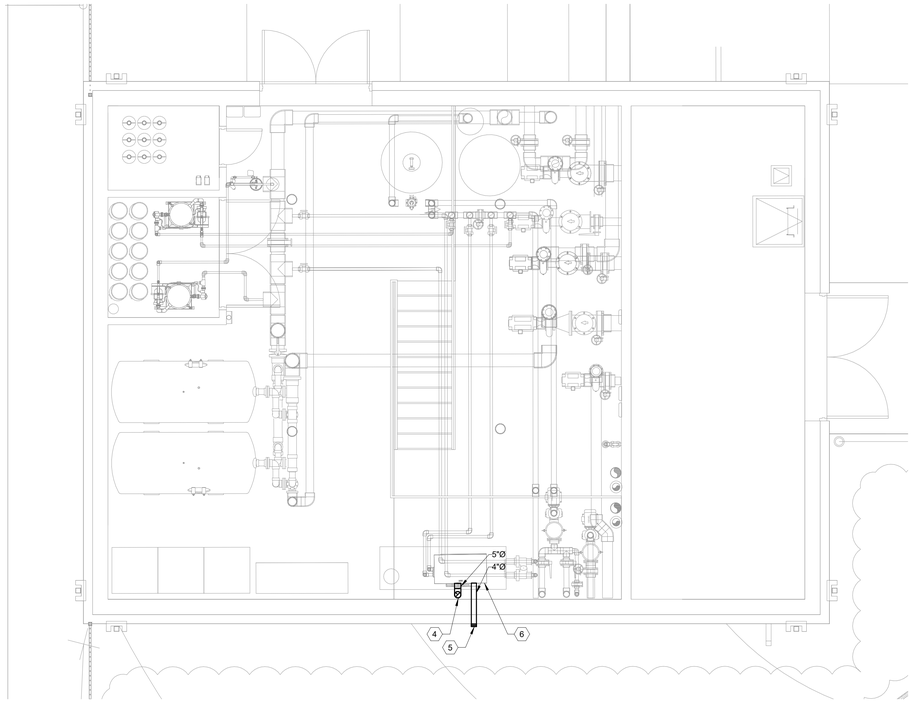
1 FLOOR PLAN
MECHANICAL BUILDING - LEVEL 1 DEMOLITION
SCALE: 1/4" = 1'-0"
0' 1' 2' 4'



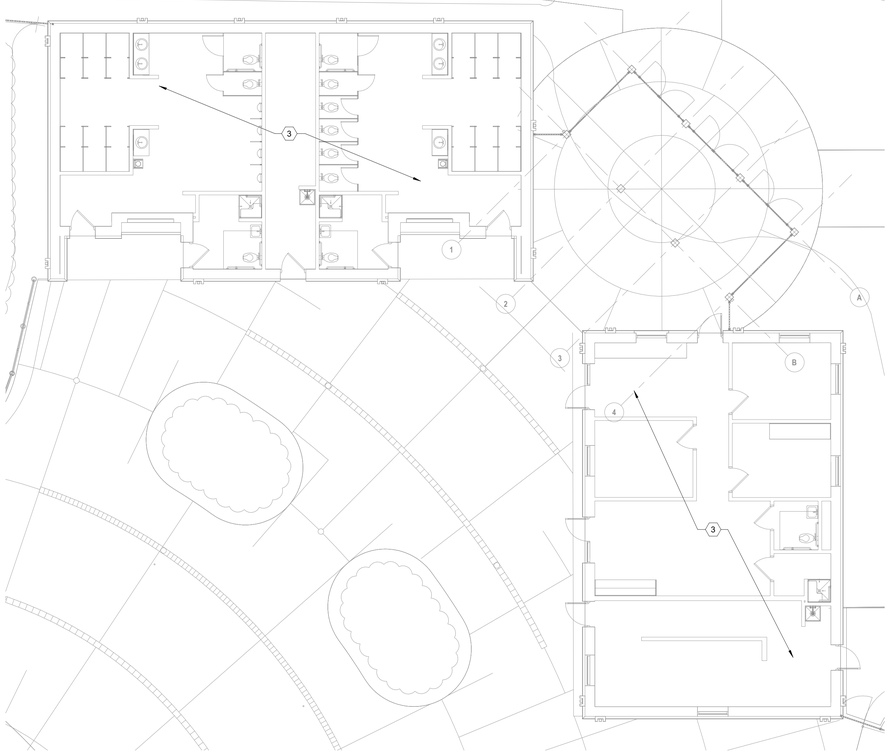
2 FLOOR PLAN
POOL HOUSE - LEVEL 1 DEMOLITION
SCALE: 1/8" = 1'-0"
0' 1' 2' 4' 8'

CODED NOTES:

1. EXISTING POOL HEATER TO BE REPLACED PER AQUATICS DRAWINGS.
2. REMOVE EXISTING VENT AND COMBUSTION DUCTWORK.
3. NO HVAC SCOPE OF WORK IN THIS AREA.
4. CONNECT 5" FLUE VENT TO THE NEW WATER HEATER. EXTEND FLUE VENT TO TERMINATE THROUGH ROOF STRUCTURE. PROVIDE LOCHINVAR VENT CAP. VENTING OPTION: DIRECTAIRE VERTICAL VENT.
5. CONNECT 4" COMBUSTION AIR DUCT TO THE NEW WATER HEATER. EXTEND COMBUSTION DUCT THROUGH EXTERIOR WALL TO OUTSIDE. PROVIDE LOCHINVAR AIR INLET CAP FOR SIDEWALL TERMINATION. COMBUSTION OPTION: SIDEWALL AIR INLET.
6. NEW WATER HEATER PROVIDED AND INSTALLED BY THE AQUATICS CONTRACTOR.



4 FLOOR PLAN
MECHANICAL BUILDING - LEVEL 1 NEW WORK
SCALE: 1/4" = 1'-0"
0' 1' 2' 4'



3 FLOOR PLAN
POOL HOUSE - LEVEL 1 NEW WORK
SCALE: 1/8" = 1'-0"
0' 1' 2' 4' 8'

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STATE OF OHIO
MARIE RUTH
E-83422
REGISTERED PROFESSIONAL ENGINEER
4/10/26

TROY AQUATIC PARK MAINTENANCE IMPROVEMENTS

CITY OF TROY RECREATION
460 WEST STAUNTON DRIVE TROY, OHIO 45373

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NO.	DATE	ISSUED / REVISION
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PROJECT NO. **25306.00**

DRAWING TITLE:
HVAC PLANS

KORDA
KORDA - NEMETH ENGINEERING
WWW.KORDA.COM

DRAWN BY:	Jesse Whitehead
DESIGNED BY:	Megan Mayotte
CHECKED BY:	Marie Ruth
PROJECT NUMBER:	2026-0204

H201

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DRAWN BY: Garrett Strauss CHECKED BY: Stan Kmonk

LIGHTING SYMBOLS

SYMBOL	DESCRIPTION	MOUNTING HEIGHT UNLESS NOTED OTHERWISE
R1 / R1 / R1	LUMINAIRE: TYPE "R1"; SEE LUMINAIRE SCHEDULE	----
R2 W2 W2	CEILING OR WALL MOUNTED LUMINAIRE TYPE "R2", "W2"; SEE LUMINAIRE SCHEDULE	SEE DRAWINGS
	FLOOD LUMINAIRE	----

POWER SYMBOLS

SYMBOL	DESCRIPTION	MOUNTING HEIGHT UNLESS NOTED OTHERWISE
	SIMPLEX RECEPTACLE; DUPLEX RECEPTACLE; QUADRUPLEX (DOUBLE DUPLEX) RECEPTACLE	18"
	DUPLEX RECEPTACLE; QUADRUPLEX RECEPTACLE GROUND FAULT INTERRUPTER	46"
	WEATHERPROOF GFCI DEVICE WITH WEATHERPROOF IN-USE COVER	24"
J	JUNCTION BOX, CEILING OR WALL MOUNTED	SEE DRAWINGS
M	MOTOR (BY DIVISION 1-25)	----
S M	MANUAL MOTOR STARTER	46"
S	TOGGLE DISCONNECT SWITCH	46"
60/45/3 3R, NF	SAFETY SWITCH (SWITCH SIZE, FUSE SIZE, NO. OF POLES -AS NOTED) "3R" DENOTES NEMA "3R" ENCLOSURE, "NF" DENOTES NONFUSED	60"
1/3 3R	MAGNETIC MOTOR STARTER (STARTER SIZE NO. OF POLES -AS NOTED) "3R" DENOTES NEMA "3R" ENCLOSURE "NF" DENOTES NONFUSED	60"
	PUSHBUTTON STATION	46"
CP	CONTROL PANEL	SEE DRAWINGS
VFD	VARIABLE FREQUENCY DRIVE	SEE DRAWINGS
P1 P1	PANELBOARD: SURFACE MOUNTED, FLUSH MOUNTED PANEL DESIGNATION AS SHOWN	72"
	DISTRIBUTION PANELBOARD	----
	CONDUIT, RISER UP	----
	CONDUIT, RISER DOWN	----
	CONDUIT ROUTED UNDER FLOORSPACE OR UNDERGROUND	----
	HOME RUN BRANCH CIRCUIT (OVERHEAD)	----
	HOME RUN BRANCH CIRCUIT (UNDERFLOOR)	----
	FLEXIBLE CONDUIT OR CABLE	----

POWER GENERAL NOTES
APPLIES TO EACH POWER DRAWING

1. REFER TO DRAWINGS AND SPECIFICATIONS OF OTHER CONSTRUCTION TRADES FOR ADDITIONAL ELECTRICAL WORK INCLUDED IN THIS CONTRACT.
2. COORDINATE EXACT LOCATIONS OF EQUIPMENT WITH OTHER CONSTRUCTION TRADES. VERIFY EXACT WIRING AND CONNECTION REQUIREMENTS WITH SUBMITTAL DOCUMENTS BEFORE INSTALLATION. SPECIALTY OUTLET TYPES SHALL BE VERIFIED BEFORE ORDERING. ALL ELECTRICAL WORK SHOWN HERE MUST BE VERIFIED AND COORDINATED IN FIELD BEFORE INSTALLATION.
3. REFER TO ARCHITECTURAL ELEVATIONS FOR OUTLET MOUNTING HEIGHTS.
4. EXACT LOCATIONS OF FLOOR RECESSED OUTLETS, FLOORBOXES, AND POKE-THRUS, SHALL BE COORDINATED WITH FURNITURE AND EQUIPMENT PLANS. OBTAIN LATEST PLANS FROM OWNERS REPRESENTATIVE.
5. ALL CONDUITS IN AREAS WITHOUT SUSPENDED CEILINGS SHALL BE RUN INCONSPICUOUSLY AS POSSIBLE, HIDDEN BEHIND BEAMS, CLOSE TO DECK, ETC. OBTAIN APPROVAL OF CONDUIT RUNS BELOW BEAMS WITH OWNER'S REPRESENTATIVE.
6. ALL DEVICES SHOWN ON THE EXTERIOR OF THE BUILDING SHALL BE WEATHERPROOF TYPE. ALL WEATHERPROOF RECEPTACLES HAVE WHILE-IN-USE COVERS UNLESS NOTED OTHERWISE.
7. REFER TO ARCHITECTURAL DOOR SCHEDULES, AND DOOR HARDWARE SPECIFICATION FOR ELECTRICAL DEVICES INSTALLED AT DOORS.
8. PROVIDE ALL FINAL POWER CONNECTIONS TO EQUIPMENT. PROVIDE ALL CONDUIT, DEVICE BOXES, AND CONTROL WIRING TO EQUIPMENT UNLESS NOTED OTHERWISE.
9. RACEWAY SHALL RUN AS INCONSPICUOUSLY AS POSSIBLE. VERTICAL RUNS SHALL OCCUR IN CORNERS OF ROOMS. HORIZONTAL RUNS SHALL OCCUR ALONG BASEBOARD OF WALL WITH VERTICAL RUNS UP TO DEVICE BOXES BRANCHING OUT OF CORNER BOXES, TEES, ELBOWS, ETC.
10. REFER TO ARCHITECTURAL PLANS FOR WALL CONSTRUCTION.
11. CIRCUIT NUMBER INDICATED WITH "GF" IS A CIRCUIT PROTECTED BY GROUND FAULT INTERRUPTING CIRCUIT BREAKER.
12. PROVIDE HOSPITAL GRADE DEVICES IN ANY "PATIENT CARE" SPACE. MC CABLE IS NOT PERMITTED.
13. PROVIDE "TAMPER RESISTANT" DEVICES IN ANY PRE K-8 SCHOOL BUILDING, ANY BUSINESS OFFICE SPACE; OR ANY WAITING AREA.
14. GFCI DEVICES SHALL BE LOCATED SO THEY ARE CONSIDERED "ACCESSIBLE". PROVIDE GFCI TYPE CIRCUIT BREAKERS OTHERWISE.

LIGHTING GENERAL NOTES
APPLIES TO EACH LIGHTING DRAWING

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF LUMINAIRES. COORDINATE WITH OTHER TRADES CONTRACTORS, IN ADVANCE OF INSTALLATION, TO AVOID CONFLICTS OF SUFFICIENT SPACE ABOVE CEILINGS FOR RECESSED LIGHTING FIXTURES.
2. REFER TO ARCHITECTURAL ELEVATIONS, CASEWORK, AND DETAILS, ELECTRICAL DETAILS, AND LUMINAIRE SCHEDULE FOR LUMINAIRE MOUNTING HEIGHTS AND ADDITIONAL INSTALLATION INFORMATION.
3. LOCATIONS OF LUMINAIRES IN ROOMS WITH MECHANICAL EQUIPMENT SHALL BE COORDINATED IN FIELD WITH INSTALLED EQUIPMENT. FIXTURES TO BE LOCATED OVER ACCESS PATHWAYS AROUND EQUIPMENT AND NOT OVER TOP OF EQUIPMENT OR DUCTWORK. DO NOT SUSPEND FIXTURES FROM PIPING OR DUCTWORK. PROVIDE APPROPRIATE MOUNTING HARDWARE AS REQUIRED TO SUPPORT FIXTURES.
4. SOME SWITCHED LIGHTING CIRCUITING NOT SHOWN FOR CLARITY. ALL FIXTURES WITHIN A SPACE ARE TO BE CONTROLLED FROM SWITCHES/OCCUPANCY/VACANCY SENSORS SHOWN IN THAT SPACE UNLESS NOTED OTHERWISE.
5. OCCUPANCY/VACANCY SENSOR POWER PACKS ARE NOT SHOWN FOR CLARITY REFER TO OCCUPANCY/VACANCY SENSOR WIRING DIAGRAMS. POWER PACKS TO BE LOCATED WITHIN EACH ROOM ABOVE CEILING ADJACENT TO ENTRY DOOR. PROVIDE CONDUIT AND WIRING FROM POWER PACK TO SENSOR UNITS.
6. INSTALL DRIVER FOR LUMINAIRES PROVIDED WITH REMOTE DRIVERS, IN NEAREST MECHANICAL ROOM WITH SUFFICIENT WALL SPACE. PROVIDE DRIVER WIRING SIZED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION FOR DISTANCE.
7. PROVIDE STEEL BRIDGING BETWEEN PURLINS/JOISTS/BEAMS AS NECESSARY TO SUPPORT THE WEIGHT OF SUSPENDED LUMINAIRES.

DEMOLITION GENERAL NOTES
APPLIES TO EACH DEMOLITION DRAWING

1. TURN OVER ANY SALVAGEABLE EQUIPMENT.
2. COORDINATE EXACT EXTENT OF DEMOLITION WITH ARCHITECTURAL DEMOLITION DRAWINGS.
3. COORDINATE PHASING OF DEMOLITION AND CONSTRUCTION PER DRAWINGS.
4. REMOVE ALL LIGHTING FIXTURES, DEVICES, OUTLETS, CONDUIT, CABLING, PANELS, AND EQUIPMENT WITHIN AREAS OF DEMOLITION. REMOVE WIRING AND CONDUIT BACK TO SOURCE OR LAST POINT OF CONNECTION TO REMAIN.
5. EXISTING EQUIPMENT OUTSIDE OF SCOPE OF WORK BOUNDARIES SHALL BE MAINTAINED. RECONNECT ANY CIRCUITS CUT PASSING THROUGH DEMOLITION AREAS.
6. REMOVE ALL UNUSED WIRING AND CABLES BACK TO THEIR SOURCE. REMOVE ALL UNUSED CONDUIT THAT IS EXPOSED OR ABOVE ACCESSIBLE CEILINGS WHICH IS AFFECTED BY OR IS IN THE AREA OF THE DEMOLITION WORK.
7. THE INTENTION OF THE ELECTRICAL DEMOLITION DRAWINGS IS TO DISCONNECT AND REMOVE ALL ELECTRICAL WORK MADE VOID BY THE SCOPE OF THE CONSTRUCTION AND ALTERATION. FIELD VERIFY EXACT MATERIAL QUANTITIES REQUIRED TO BE REMOVED.
8. WHERE BURIED CONDUITS EXTENDING OUT OF A CONCRETE SLAB BECOME ABANDONED, CUT AND GRIND THE CONDUITS OFF FLUSH WITH TOP OF SLAB AND PLUG WITH NON-SHRINK WATERPROOF GROUT FILL.
9. COORDINATE ALL DEMOLITION WORK WITH ALL OTHER TRADES.
10. LEGALLY DISPOSE OF HAZARDOUS MATERIALS AND BALLAST OR OTHER EQUIPMENT CONTAINING PCBS AND LAMPS CONTAINING MERCURY. COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS.

BRANCH CIRCUIT GENERAL NOTE

1. BRANCH CIRCUIT CONDUIT ROUTING IS NOT SHOWN ON THE PLANS AND LEFT TO THE DISCRETION OF THE CONTRACTOR. BRANCH CIRCUIT WIRE SIZE SHALL BE AS FOLLOWS BASED ON CONDUIT ROUTE LENGTHS. BEFORE WIRING INSTALLATION, VERIFY THAT THE FURTHEST DISTANCE FROM PANELBOARD TO OUTLET DOES NOT EXCEED THE FOLLOWING DISTANCE FOR WIRE SIZE SHOWN, INCREASE WIRE SIZE APPROPRIATELY FOR FARTHER DISTANCES.

CONDUCTOR SIZE	MAXIMUM LENGTH
#12 AWG	100 FEET
#10 AWG	150 FEET
#8 AWG	250 FEET
#6 AWG	400 FEET

ELECTRICAL ABBREVIATIONS

ABBREVIATIONS USED ON DRAWINGS IN GENERAL ARE LISTED BELOW . REFER TO CSI DOCUMENT TD-2-4 FOR ANY ABBREVIATIONS LISTED ON THE DRAWINGS BUT ARE NOT LISTED BELOW.

A	AMPS
AC	AIR COMPRESSOR
AF	ARC FLASH CIRCUIT INTERRUPTER DEVICE
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AHU	AIR HANDLER UNIT
BRKR	BREAKER
C	CONDUIT
CATV	CABLE ANTENNA TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION
CUH	CABINET UNIT HEATER
CKT	CIRCUIT
CPT	CONTROL POWER TRANSFORMER
Cu	COPPER
DISTR	DISTRIBUTION
DLH	DAYLIGHT HARVESTING
EF	EXHAUST FAN
ELEC	ELECTRICAL
EM	EMERGENCY
EMT	ELECTRICAL METALIC TUBING
EPO	EMERGENCY POWER OFF
EVSE	ELECTRIC VEHICLE SERVICE EQUIPMENT (CHARGER)
EWC	ELECTRIC WATER COOLER
EX	EXISTING
EXP	EXPLOSION PROOF TYPE DEVICE.
F	FUSE
FAA	FIRE ALARM ANNUNCIATOR
FACP	FIRE ALARM CONTROL PANEL
FAP	FIRE ALARM PANEL
FARA	FIRE ALARM REMOTE ANNUNCIATOR
FC	FAN COIL UNIT
FIXT	LIGHT FIXTURE
FLOUR	FLUORESCENT
FLR	FLOOR
FS	FUSIBLE SWITCH
G	GROUND
GRC	GALVANIZED RIGID CONDUIT
GF	GROUND FAULT INTERRUPTER DEVICE
HID	HIGH INTENSITY DISCHARGE
HVAC	HEATING, VENTILATION, AIR CONDITIONING
HP	HORSEPOWER
IT	INFORMATION TECHNOLOGY
J	JUNCTION BOX
KEC	KITCHEN EQUIPMENT CONTRACTOR
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KW	KILOWATTS
LC	LIGHTING CONTACTOR
LTG	LIGHTING
LV	LOW VOLTAGE
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MSB	MAIN SWITCHBOARD
MTD	MOUNTED
+N	INDICATES MOUNTING HEIGHT (N) TO CENTER OF DEVICE FROM FINISH FLOOR UNLESS OTHERWISE NOTED
NIC	NOT IN CONTRACT
NL	NIGHTLIGHT
NTS	NOT TO SCALE
OC OR O/C	ON CENTER
OH	OVERHEAD
P	POLE (PHASE)
PVC	POLYVINYL CHLORIDE
PE	PNEUMATIC/ ELECTRIC
PNL	PANEL
Ø OR P	PHASE
RAF	RETURN AIR FAN
RTU	ROOFTOP UNIT
SH	SHUNT TRIP
SW	SWITCH
TCP	TEMPERATURE CONTROL PANEL
TFMR	TRANSFORMER
TR	TAMPER RESISTANT
TV	TELEVISION
TYP	TYPICAL
UG	UNDERGROUND
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
V	VOLTS
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
VIF	VERIFY IN FIELD
VC	VOLUME CONTROL
W	WATTS
WP	WEATHERPROOF TYPE DEVICE
1/E.1	MEANS DETAIL No. 1, DRAWING SHEET "E1"

SYMBOL LIST GENERAL INFORMATION

1. SOME SYMBOLS MAY NOT BE USED.
2. MOUNTING HEIGHTS ARE TO CENTER OF DEVICE UNLESS NOTED OTHERWISE.
3. STRAIGHT LINES BETWEEN DEVICES INDICATE CONTROLLED CIRCUIT.
4. DASHED SYMBOLS INDICATE EXISTING DEVICES TO BE REMOVED.
5. SOLID SYMBOLS WITH LIGHT LINEWEIGHT INDICATE EXISTING DEVICES TO REMAIN.
6. DASHED SYMBOLS WITH SUBSCRIPT "RL" INDICATE EXISTING DEVICES TO BE RELOCATED.
7. SOLID SYMBOLS WITH SUBSCRIPT "RD" INDICATE RELOCATED DEVICES.

DEVICE SUFFIXES

AC	ABOVE COUNTER
C	CEILING MOUNTED OUTLET
F	FLOOR MOUNTED OUTLET
S	SURFACE RACEWAY OUTLET
M	MODULAR FURNITURE OUTLET
W	WALL MOUNTED
WG	WIRE GUARD
WP	WEATHER PROOF

ELECTRICAL SHEET INDEX

SHEET NUMBER	SHEET NAME
E000	ELECTRICAL SYMBOLS AND LEGENDS
E001	ELECTRICAL SITE PLAN
E101	ELECTRICAL DEMOLITION PLAN - ENTRY AREA
E102	ELECTRICAL DEMOLITION PLAN - PUMP ROOM
E201	ELECTRICAL NEW WORK PLAN - ENTRY AREA
E202	ELECTRICAL NEW WORK PLAN - PUMP ROOM
E501	ELECTRICAL SCHEDULES
E601	ONE-LINE DIAGRAM - EXISTING
E602	ONE-LINE DIAGRAM - DEMOLITION
E603	ONE-LINE DIAGRAM - NEW WORK
E604	ONE-LINE SCHEDULES
E701	ELECTRICAL DETAILS
E702	ELECTRICAL DETAILS

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04-10-2026

TROY AQUATIC PARK MAINTENANCE IMPROVEMENTS

CITY OF TROY RECREATION
460 WEST STAUNTON DRIVE TROY, OHIO 45373

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PROJECT NO. **25306.00**

DRAWING TITLE:
ELECTRICAL SYMBOLS AND LEGENDS

E000

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PROJECT NUMBER:	2026-0204

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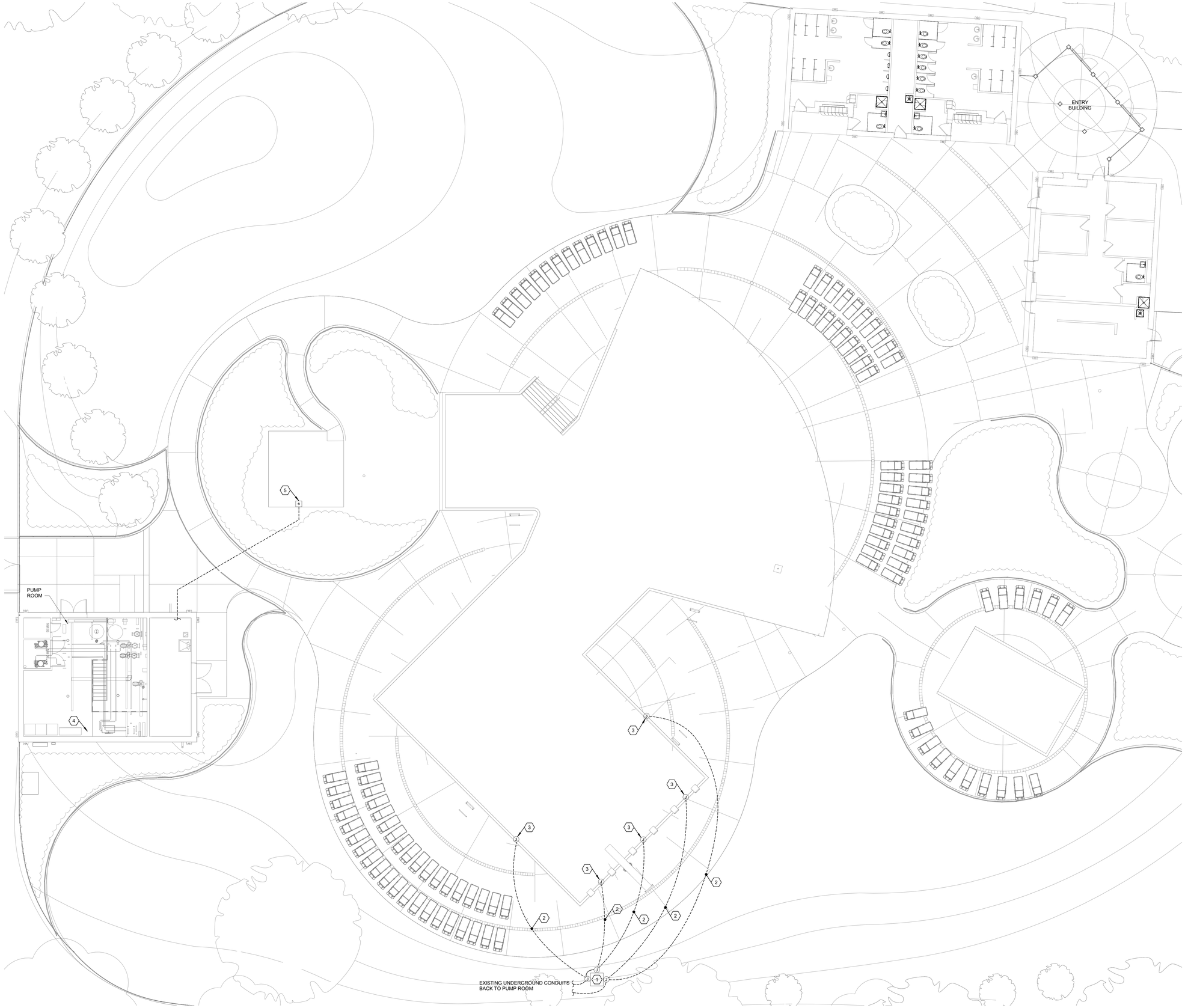

1 FLOOR PLAN
SITE PLAN

SCALE: 1" = 10'-0"
0' 1'-2' 4' 8'

GENERAL NOTES:

1. ELECTRICAL CONTRACTOR TO VERIFY ALL UNDERWATER LIGHTING CONDUCTORS/CONDUITS ARE IN GOOD WORKING CONDITION AND VERIFY WATERTIGHT CONNECTION TO POOL LIGHT NICHE. ONCE VERIFIED, CONNECT NEW UNDERWATER LIGHTS TO EXISTING CIRCUIT. ELECTRICAL CONTRACTOR SHALL INCLUDE IN THEIR BID THE REPLACEMENT OF ALL CONDUCTORS, CONDUIT, JUNCTION BOXES, AND GFCI CIRCUIT BREAKERS ASSOCIATED WITH UNDERWATER LIGHTING. COORDINATE REPLACEMENT OF UNDERWATER LIGHTING WITH POOL DRAWINGS AND ADHERE TO ANY APPLICABLE REQUIREMENTS LISTED IN NEC 680.

CODED NOTES:

1. EXISTING CONCRETE PEDESTAL FOR UNDERWATER LIGHTING JUNCTION BOXES.
2. EXISTING UNDERGROUND CONDUIT TO UNDERWATER LIGHT.
3. EXISTING UNDERWATER LIGHT NICHES.
4. APPROXIMATE LOCATION OF SWITCHES FOR UNDERWATER LIGHTING. SWITCHES LOCATED IN PUMP ROOM. SEE SHEET E-202.
5. EXISTING BODY SLIDE EMERGENCY POWER OFF BUTTON.

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PROJECT NO. **25306.00**

DRAWING TITLE:
ELECTRICAL SITE PLAN

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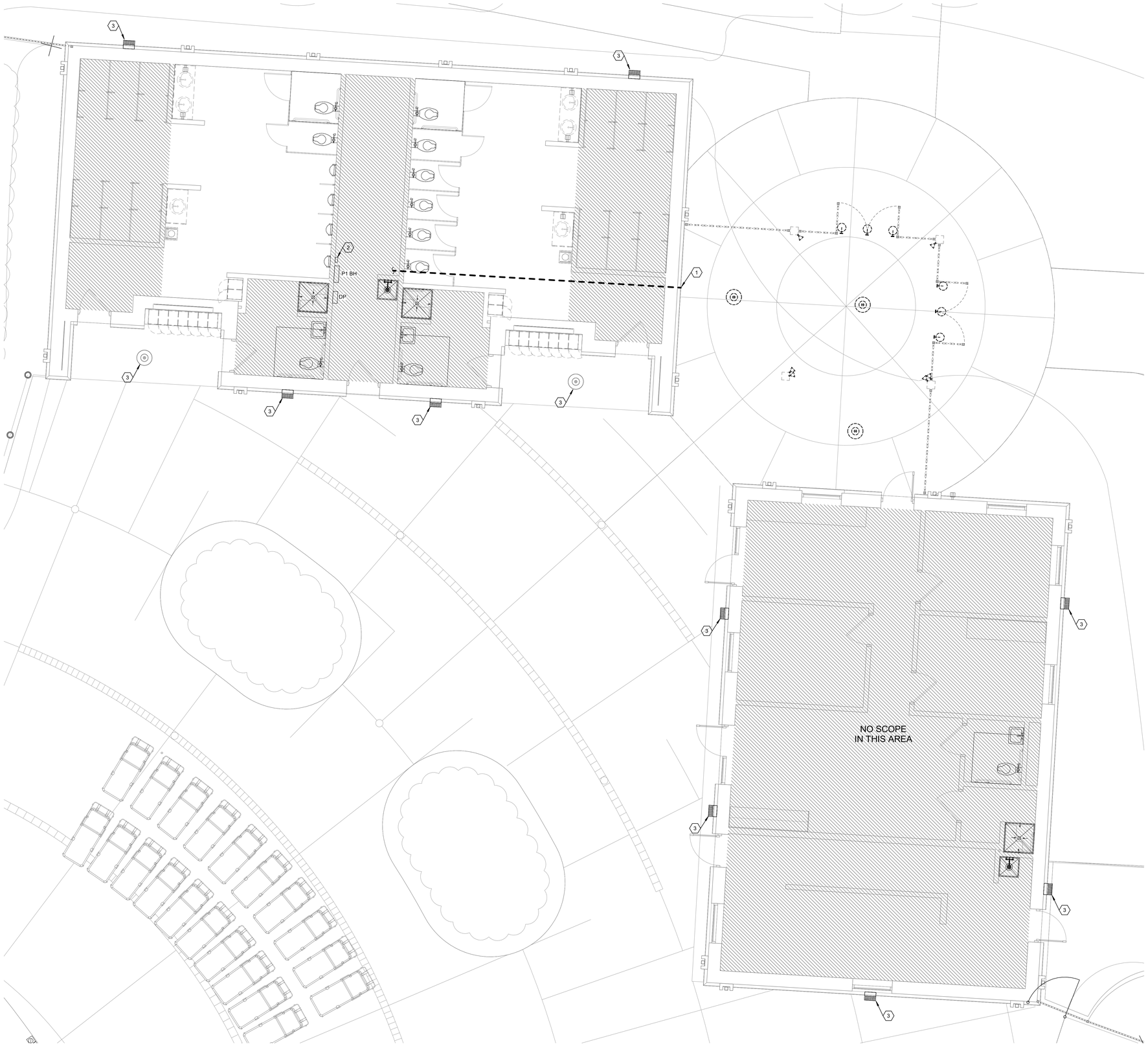
PROJECT NUMBER:	2026-0204

E001



1 FLOOR PLAN
DEMOLITION - ENTRY AREA

SCALE: 1/4" = 1'-0"
0' 1' 2' 4' 8'

GENERAL NOTES:

1. LIGHTING FIXTURES TO BE DEMOLISHED SHALL BE CAREFULLY REMOVED AND TURNED OVER TO OWNER.

CODED NOTES:

1. APPROXIMATE LOCATION OF CONDUIT TO EXISTING CANOPY. DEMOLISH ALL CONDUIT, LIGHTING, AND CONDUCTORS ASSOCIATED WITH EXISTING CANOPY BACK TO THIS POINT AT THE EXTERIOR WALL OF THE BATHHOUSE. CONDUIT AND CONDUCTORS TO BE RE-USED AND EXTENDED FOR NEW CANOPY LIGHTING. SEE SHEET E-201.
2. APPROXIMATE LOCATION OF EXISTING CANOPY LIGHTING TIME CLOCK.
3. EXISTING LIGHT FIXTURE TO REMAIN AND BE RELAMPED. SEE HEET E201.

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DRAWING TITLE:
ELECTRICAL
DEMOLITION PLAN -
ENTRY AREA

E101

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PROJECT NUMBER:	2026-0204

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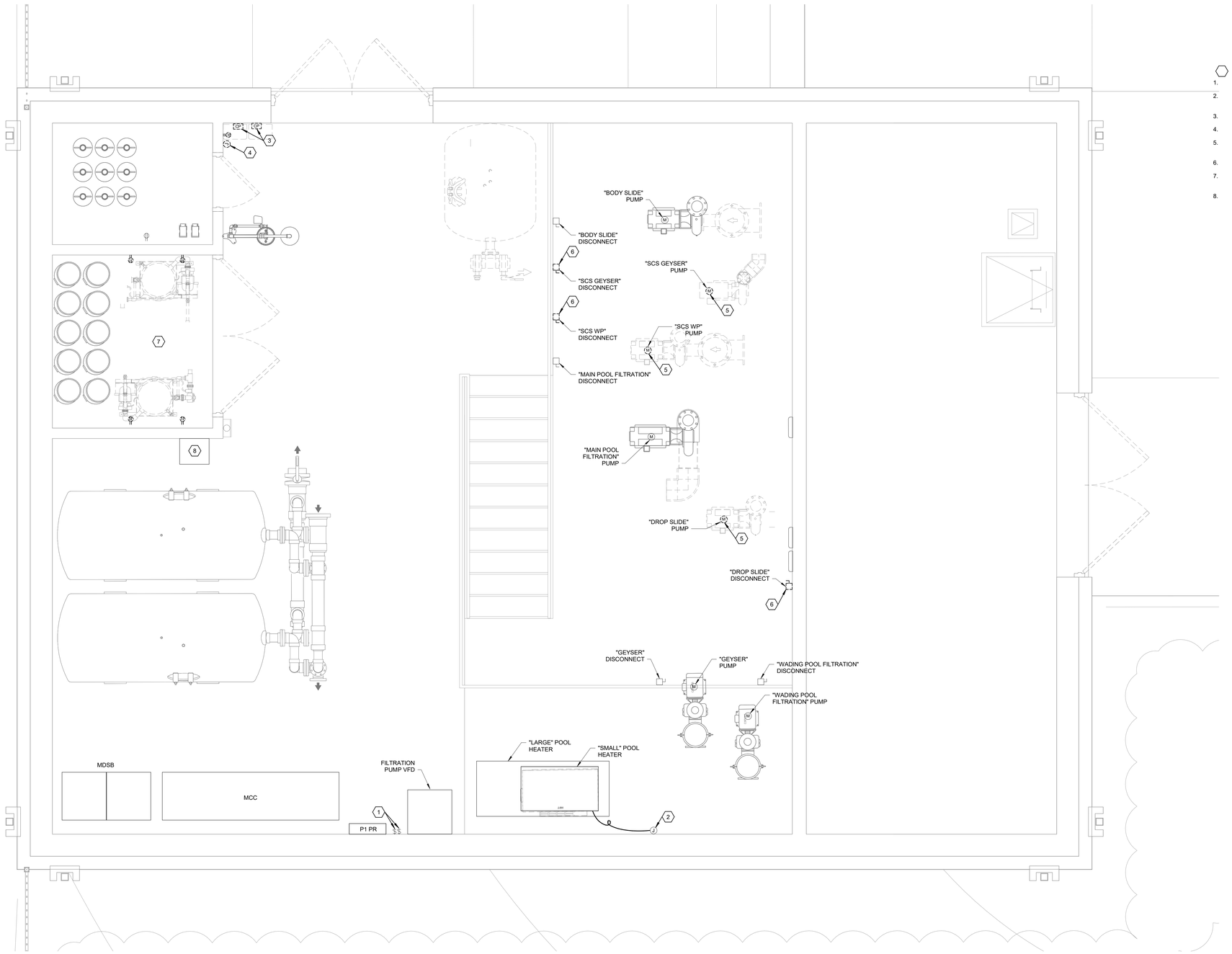

1 FLOOR PLAN

DEMOLITION - PUMP ROOM

SCALE: 1/2" = 1'-0"

0' 1' 2' 4' 8'

CODED NOTES:

1. EXISTING SWITCHES FOR UNDERWATER LIGHTING.
2. "SMALL" POOL HEATER TO BE REMOVED. DISCONNECT AND MAINTAIN EXISTING CIRCUIT, CIRCUIT TO BE RECONNECTED TO NEW HEATER. SEE SHEET E301.
3. EXISTING CHEMICAL CONTROLLERS TO BE DISCONNECTED AND REMOVED.
4. EXISTING JUNCTION BOX FOR CHEMICAL CONTROLLERS TO BE REMOVED.
5. PUMP TO BE REMOVED. DISCONNECT AND REMOVE CONDUIT/CONDUCTORS FOR PUMP BACK TO MCC.
6. EXISTING DISCONNECT SWITCH TO BE REMOVED.
7. REMOVE ALL CONDUIT AND WIRING ASSOCIATED WITH EXISTING CHEMICAL FEEDS BACK TO SOURCE.
8. EXISTING TECHNOLOGY ENCLOSURE.

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DRAWING TITLE:
ELECTRICAL DEMOLITION PLAN - PUMP ROOM

E102

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PROJECT NUMBER:	2026-0204

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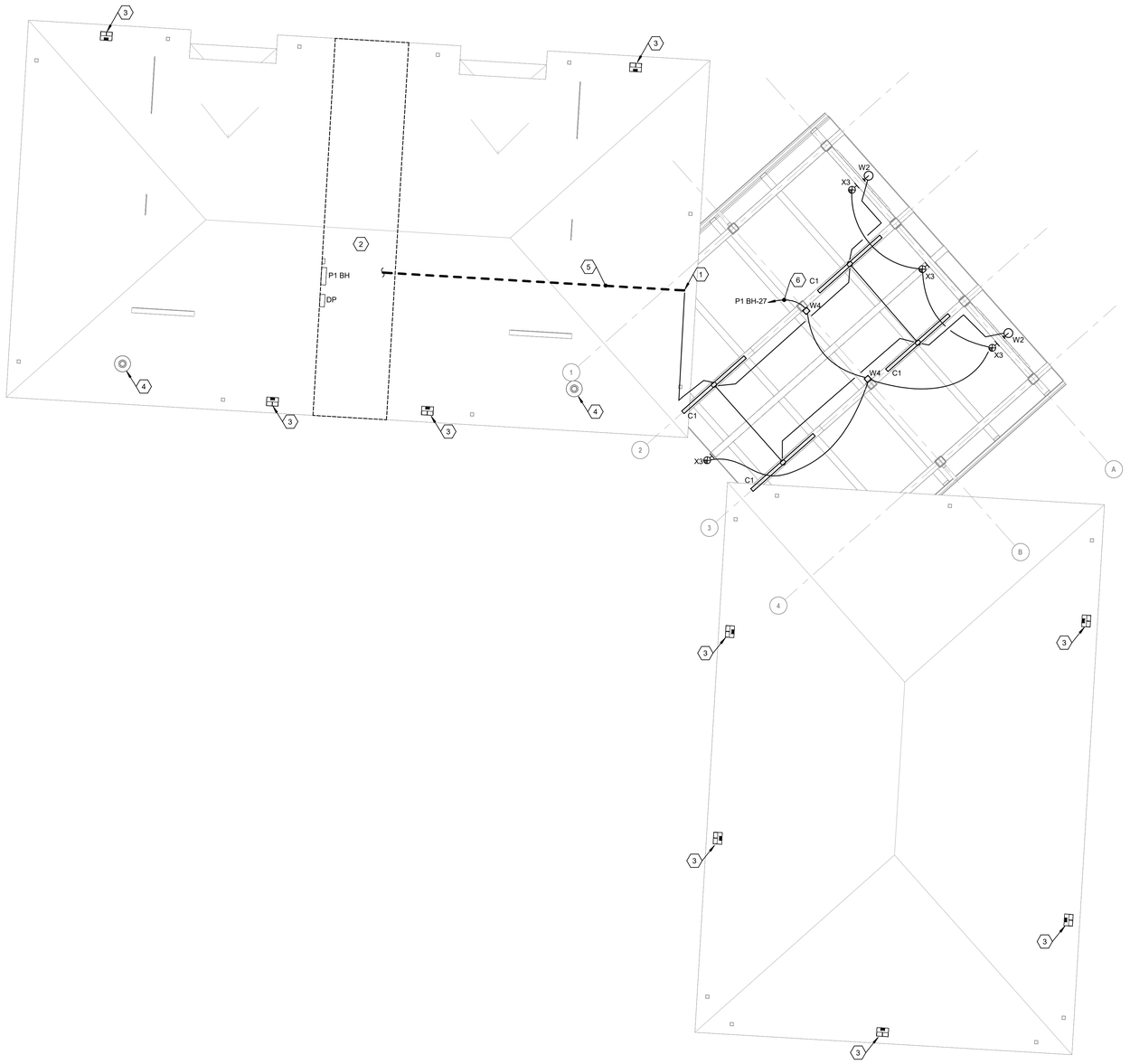

1 FLOOR PLAN

NEW WORK - ENTRY AREA

SCALE: 3/16" = 1'-0"

0' 1' 2' 4' 8'

GENERAL NOTES:

1. W2 LIGHTING FIXTURES TO BE INSTALLED ON FACE OF VERTICLE STEEL SUPPORT OVER SIGNAGE.
2. C1 LIGHTING FIXTURES TO BE INSTALLED ON UNDERSIDE OF STEEL BEAM.
3. VERIFY EXISTING LAMP TYPES FOR RELAMPING BEFORE PURCHASE AND INSTALLATION OF NEW LAMP.
4. FIXTURE TYPE W4 TO BE MOUNTED AT 10' AFF.

CODED NOTES:

1. RECONNECT NEW CANOPY LIGHTING TO EXISTING LIGHTING CIRCUIT. ROUTE CONDUIT TIGHT TO STRUCTURE. LIGHTING TO BE CONTROLLED BY EXISTING TIMECLOCK AS PREVIOUSLY CIRCUITED.
2. MECHANICAL ROOM.
3. EXISTING WALL MOUNTED FIXTURE TO BE RELAMPED. PROVIDE AND INSTALL 2-26W DOUBLE TWIN TUBE COMPACT FLOURESCENT BULBS. BULB COLOR TEMPERATURE TO BE 4000K.
4. EXISTING SUSPENDED FIXTURE TO BE RELAMPED. PROVIDE AND INSTALL 4000K, 100W COATED METAL HALIDE BULD (M100/C/U).
5. EXISTING CONDUIT FROM MECHANICAL ROOM.
6. PULL NEW CIRCUIT THROUGH EXISTING BACK TO PANEL P1BH. DO NOT CIRCUIT THROUGH TIME CLOCK OR ANY OTHER CONTROLS.

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DRAWING TITLE:

ELECTRICAL NEW WORK PLAN - ENTRY AREA

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E201

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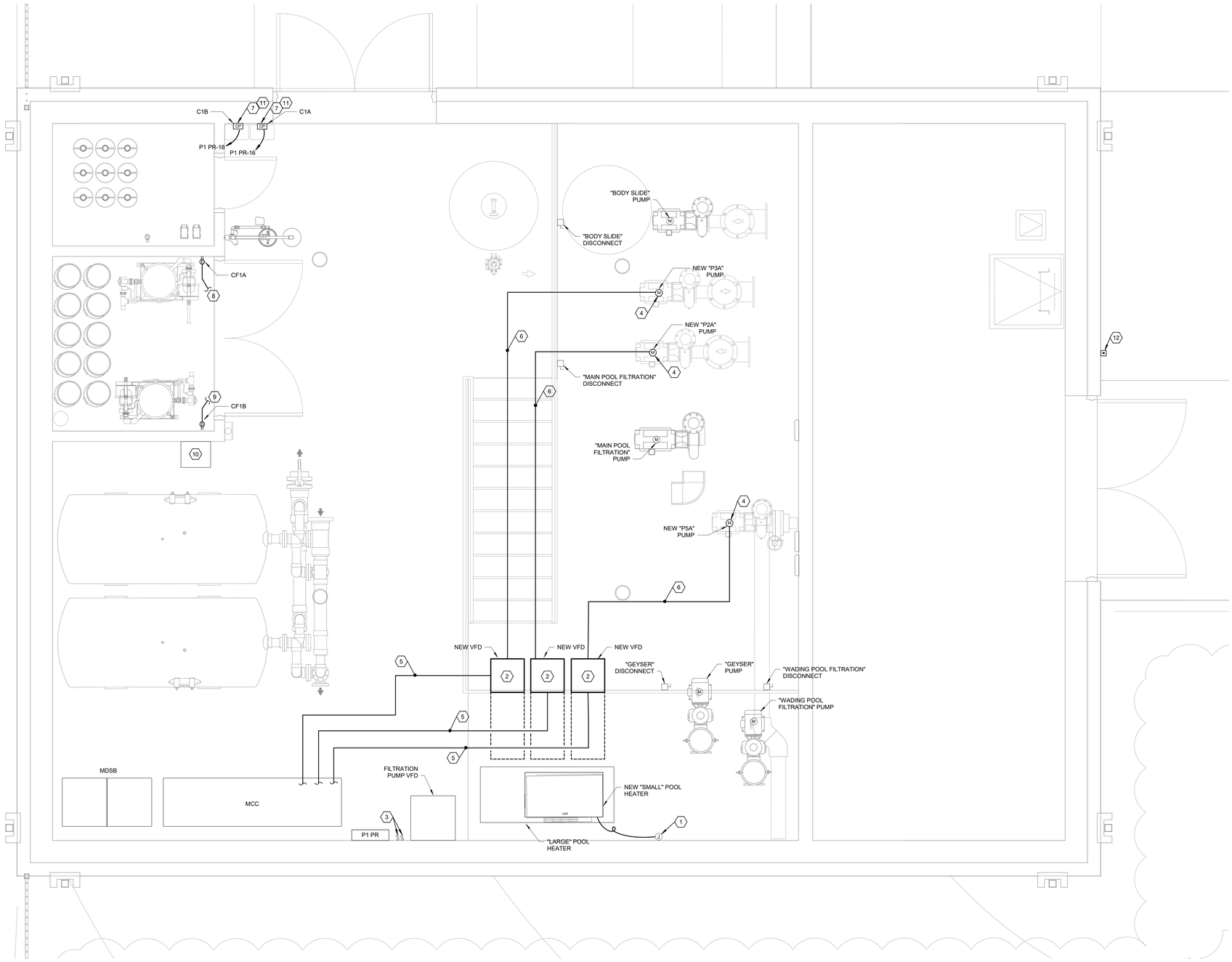

1 FLOOR PLAN

NEW WORK - PUMP ROOM

SCALE: 1/2" = 1'-0"

0' 1' 2' 4' 8'

GENERAL NOTES:

1. COORDINATE AQUATIC EQUIPMENT ROUGH-IN WITH POOL CONSULTANTS DRAWINGS.
2. VERIFY ALL WIRING REQUIREMENTS FOR AQUATICS EQUIPMENT WITH MANUFACTURERS INSTRUCTIONS BEFORE INSTALLATION.

CODED NOTES:

1. RECONNECT EXISTING "SMALL" POOL HEATER CIRCUIT TO NEW HEATER.
2. UNISTRUT MOUNT NEW PUMP VFD'S IN THIS LOCATION FOR ACCESS FROM "CATWALK". UTILIZE EXISTING BEAM UNDERNEATH "CATWALK" AND CEILING STRUCTURE TO SUPPORT NEW VFD MOUNTING STRUCTURE. MAINTAIN 3' CLEARANCE IN FRONT OF VFD'S PER NEC 110.26(A)(1). VFD BUTTONS/SWITCHES SHALL NOT EXCEED 2 METERS (6' 7") FROM FLOOR PER NEC 404.8(A). VERIFY EXISTING CONDITIONS AND VFD DIMENSIONS PRIOR TO ROUGH-IN AND CONSTRUCTION OF SUPPORT STRUCURE.
3. EXISTING SWITCHES FOR UNDERWATER LIGHTING.
4. NEW PUMP. MAKE FINAL CONNECTIONS TO PUMP.
5. PROVIDE NEW CONDUIT/CONDUCTORS FROM MCC TO NEW VFD.
6. PROVIDE NEW CONDUIT/CONDUCTORS FROM VFD TO NEW PUMP.
7. PROVIDE 120V CONNECTION TO NEW CHEMICAL CONTROLLER.
8. POWER FROM C1A CHEMICAL CONTROLLER.
9. POWER FROM C1B CHEMICAL CONTROLLER.
10. EXISTING TECHNOLOGY ENCLOSURE.
11. PROVIDE CAT6E CABLING FROM CHEMICAL CONTROLLER TO EXISTING TECHNOLOGY ENCLOSURE. TERMINATE CABLING AT ENCLOSURE AND TEST TO VERIFY CABLING IS PROPERLY TERMINATED.
12. NEW DROP SLIDE EMERGENCY OFF BUTTON. SEE DETAIL 1 ON SHEET E702.

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DRAWING TITLE:

ELECTRICAL NEW WORK PLAN - PUMP ROOM

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DRAWN BY:	Garrett Strauss
DESIGNED BY:	Heath Jeffries
CHECKED BY:	Stan Kmonk
PROJECT NUMBER:	2026-0204

E202

LUMINAIRE SCHEDULE

B: BOLLARD C: CEILING CV: COVE G: GROUND P: POLE R: RECESSED S: SUSPENDED T: TRACK UC: UNDERCABINET W: WALL X: UNIVERSAL

PARTIAL MODEL NUMBERS MAY BE SHOWN AND ARE INTENDED TO INDICATE ACCEPTABLE MANUFACTURER'S PRODUCT LINE. EXACT MODEL NUMBERS MEETING THE FIXTURE DESCRIPTION SHALL BE OBTAINED FROM THE MANUFACTURER'S AGENTS. ALL FIXTURES MAY NOT BE USED - REFER TO PLANS. DIMENSIONS MAY VARY. REFER TO THE SPECIFICATIONS SECTIONS 26 51 14 FOR ADDITIONAL REQUIREMENTS. REFER TO DRAWINGS FOR FIXTURES CIRCUITED AND CONTROL.

TAG	MANUFACTURER	SERIES	MODEL	DIMENSIONS (W x L x D)	DESCRIPTION	SOURCE	VOLTAGE	WATTAGE	COLOR TEMP	LUMENS	DIMMING	MATERIAL	MOUNTING	LENS	FINISH/TRIM	REFLECTOR FINISH/ DISTRIBUTION	OPTIONS	APPROVED MANUFACTURERS
C1	AXIS	EXTEND 4 SURFACE	EX4S	4" H X LENGTH AS SHOWN ON DRAWINGS X 5" D	SURFACE MOUNTED WET LOCATION LINEAR	LED	120V	6W/FT	4000K	600 LM/FT	FIXED OUTPUT	ALUMINUM	SURFACE	GASKETED ACRYLIC	TBD ARCHITECT	BATWING DISTRIBUTION	IP66 RATED. PROVIDE SURFACE MOUNT BRACKET.	LUMENWERX VIA SPLASH WDO, SELUX PEETA IP66
W2	BASELITE	ANGLE SHADE	A812	ARM: 6" H X 24" W X 24" PROJ. HEAD: 12.25" H X 12" DIA	WALL MOUNT (DUAL HEAD) SIGN LIGHT	LED	120V	12 W PER HEAD	4000K	1481 LUMENS PER HEAD	FIXED OUTPUT	ALUMINUM	WALL	-	TBD ARCHITECT	-	PROVIDE E18A 1/2" ARM EXTENSION FOR DUAL HEAD APPLICATION WITH 24" PROJECTION FROM MOUNTING SURFACE PROVIDE LWTM WEATHERTIGHT WALL MOUNT BASE. PROVIDE TRB 1/2"-4' SUPPORT CABLE. WET LOCATION RATED.	BOCK LIGHTING SN610-EG1-IG1 / LVFV1-1500LM-40K / GNK-1003-24-12-G1 / GW1, BARN LIGHT ELECTRIC CO DUAL ARM EMBLEM SIGN LIGHT.
X3	LITHONIA	WLTE	-	2.5" X 12.5" X 8"	SINGLE FACE WET LOCATION EXIT SIGN	LED	120V	3.4 W	GREEN	N/A	FIXED OUTPUT	THERMOPLASTIC	WALL	POLYCARBONATE	TBD ARCHITECT	-	PROVIDE INTEGRAL 90 MINUTE BATTERY WITH 24 HOUR RECHARGE. WET LOCATION RATED.	EXITRONIX VEX-WP, SURELITES LPXW
W4	LITHONIA	AFF	OEL CW	6.5" X 10" X 3.25"	EMERGENCY EGRESS LIGHT	LED	120V	11.6 W	4000K	N/A	FIXED OUTPUT	ALUMINUM	WALL	POLYCARBONATE	TBD ARCHITECT	WIDE THROW OPTIC	PROVIDE INTEGRAL (CW) 90 MINUTE BATTERY WITH 24 HOUR RECHARGE. WET LOCATION RATED. NORMALLY OFF OPERATION.	EXITRONIX TRITONCL, MULE MAKO-LED

CODED NOTES:

1. PROVIDE NEW GFCI CIRCUIT BREAKER FOR NEW CHEMICAL CONTROLLERS.
2. UTILIZE EXISTING SPARE CIRCUIT BREAKER IN PANEL.

Existing Panel Name: P1 PR (PUMP ROOM)

Location: Recessed
Supply From:
Mounting:
Volts: 120/208 Wye
Phases: 3
Wires: 4
Mains Type: MLO
Mains Rating: 250.00 A

Legend:
GF - GFCI CIRCUIT BREAKER

Notes:
NEW CIRCUIT BREAKERS SHALL MATCH EXISTING BREAKERS IN PANEL.
NEW CIRCUIT BREAKERS SHALL MATCH AIC RATING OF PANEL.

Note	Ø Size	Branch Circuit Description	Trip	#	A	B	C	#	Trip	Branch Circuit Description	Ø Size	Note
		EXISTING - POLE LIGHTS/RECEPT	20 A	1	0 / 0			2	20 A	EXISTING - UNDERWTR POOL LIGHTS		GF
		EXISTING - LIGHTING	20 A	3		0 / 0		4	20 A	EXISTING - UNDERWTR POOL LIGHTS		GF
		EXISTING - LIGHTING	20 A	5			0 / 0	6	20 A	EXISTING - EF6/RECEPTACLES		
		EXISTING - EXTERIOR LIGHTING	20 A	7	0 / 0			8	20 A	EXISTING - UH1/RECEPTACLES		
		EXISTING - TIME CLOCK	20 A	9		0 / 0		10	20 A	EXISTING - RECEPTACLES		
		EXISTING - OUTDOOR RECEPT	20 A	11			0 / 0	12	20 A	EXISTING - RECEPTACLES		
		EXISTING - OUTDOOR RECEPT	20 A	13	0 / 0			14	20 A	EXISTING - EF2/RECEPTACLES		
		EXISTING - OUTDOOR RECEPT	20 A	15		0 / 0.5		16	20 A	CHEMICAL CONTROLLER C1A	#12	GF
		EXISTING - EYE WASH	20 A	17			0 / 0.5	18	20 A	CHEMICAL CONTROLLER C1B	#12	GF
		EXISTING - EWH2	40 A	19,21	0 / 0			20	20 A	EXISTING - SMALL POOL HTR CONTROL		
						0 / 0		22	20 A	EXISTING - AUTO FILL		
		EXISTING - MOTORIZED DAMPER	20 A	23			0 / 0	24	20 A	EXISTING - LARGE POOL HTR CONTROL		
GF		EXISTING - SEWAGE EJECTOR 1	30 A	25	0 / 0			26	20 A	EXISTING - CIRCULATION PUMP		
GF		EXISTING - SEWAGE EJECTOR 2	30 A	27		0 / 0		28	20 A	EXISTING - CO2 FEED SYSTEM		
		EXISTING - SEWAGE CONTROL PUMP	20 A	29			0 / 0	30	20 A	EXISTING - BOOSTER PUMP		
		EXISTING -	20 A	31	0 / 0			32	20 A	EXISTING -		
		EXISTING - EXHUAST FAN 7	20 A	33		0 / 0		34,36	20 A	EXISTING - STORAGE HEATER (UH2)		
		EXISTING - SPARE	20 A	35			0 / 0					
		EXISTING - IRRIGATION	20 A	37	0 / 0			38	20 A	EXISTING - SPARE		
		EXISTING - SPARE	20 A	39		0 / 0		40	20 A	EXISTING - SPARE		
		EXISTING - SPARE	20 A	41			0 / 0	42	---	SPACE		
					Phase Total KVA:	0.00	0.50	0.50				
					Phase Total Amps:	0.00	4.81	4.81				

Load Classification	Connected Load	NEC Demand Factor	NEC Demand	Panel Summary	
LIGHTING	0.00 kVA	0.00%	0.00 kVA		
RECEPTACLE & MISC	1.00 kVA	100.00%	1.00 kVA	**Total Conn. Load:**	1.00 kVA
MOTOR	0.00 kVA	0.00%	0.00 kVA	**Total Est. Demand:**	1.00 kVA
HEATING	0.00 kVA	0.00%	0.00 kVA	**Total Conn.:**	2.78 A
EXISTING	0.00 kVA		0.00 kVA	**Total Est. Demand:**	2.78 A

Existing Panel Name: P1 BH (BATH HOUSE)

Location: Recessed
Supply From:
Mounting:
Volts: 120/208 Wye
Phases: 3
Wires: 4
Mains Type: MLO
Mains Rating: 125.00 A

Legend:
GF - GFCI CIRCUIT BREAKER

Notes:

Note	Ø Size	Branch Circuit Description	Trip	#	A	B	C	#	Trip	Branch Circuit Description	Ø Size	Note
		EXISTING - POLE LIGHT/REC	20 A	1	0 / 0			2	20 A	EXISTING - RECEPTACLES		
		EXISTING - EXTERIOR LIGHTING	20 A	3		0 / 0		4	20 A	EXISTING - RECEPTACLES		
		EXISTING - EXTERIOR LIGHTING	20 A	5			0 / 0	6	20 A	EXISTING - RECEPTACLES		
		EXISTING - LIGHTING	20 A	7	0 / 0			8	20 A	EXISTING - RECEPTACLES		
		EXISTING - LIGHTING	20 A	9		0 / 0		10	20 A	EXISTING - SWIMSUIT DRYER		
		EXISTING - TIME CLOCK	20 A	11			0 / 0	12	20 A	EXISTING - HAIR/HAND DRYER		
		EXISTING - AUTOMATIC FAUCETS	20 A	13	0 / 0			14	20 A	EXISTING - HAIR/HAND DRYER		
		EXISTING - AUTOMATIC FLUSH VALVES	20 A	15		0 / 0		16	20 A	EXISTING - RECEPTACLES		
		EXISTING - AUTOMATIC FAUCETS	20 A	17			0 / 0	18	20 A	EXISTING - RECEPTACLES		
		EXISTING - AUTOMATIC FLUSH VALVES	20 A	19	0 / 0			20	20 A	EXISTING - RECEPTACLES		
		EXISTING - MOTORIZED DAMPER	20 A	21		0 / 0		22	20 A	EXISTING - SWIMSUIT DRYER		
		EXISTING - OUTLET FOUNTAIN	20 A	23			0 / 0	24	20 A	EXISTING - HAIR/HAND DRYER		
		EXISTING - EXTERIOR LIGHTING	20 A	25	0 / 0			26	20 A	EXISTING - HAIR/HAND DRYER		
		LTG ENTRY EXITS/EGRESS	20 A	27		0.02 / 0		28	20 A	EXISTING - RECEPTACLES		
		EXISTING - SPARE	20 A	29			0 / 0	30	20 A	EXISTING - RECEPTACLES		
		EXISTING - SPARE	20 A	31	0 / 0			32,34,36				
		EXISTING - SPARE	20 A	33		0 / 0			15 A	EXISTING - EXHAUST FAN #1		
		EXISTING - SPARE	20 A	35			0 / 0					
		EXISTING - SPARE	20 A	37	0 / 0			38	20 A	EXISTING - GAS FIRED WATER HTR		
		EXISTING - SPARE	20 A	39		0 / 0		40	20 A	EXISTING - FU2		
		EXISTING - SPARE	20 A	41			0 / 0	42	20 A	EXISTING - PARTY DECK AWNING		GF
					Phase Total KVA:	0.00	0.02	0.00				
					Phase Total Amps:	0.00	0.17	0.00				

Load Classification	Connected Load	NEC Demand Factor	NEC Demand	Panel Summary	
LIGHTING	0.02 kVA	125.00%	0.03 kVA		
RECEPTACLE & MISC	0.00 kVA		0.00 kVA	**Total Conn. Load:**	0.02 kVA
MOTOR	0.00 kVA	0.00%	0.00 kVA	**Total Est. Demand:**	0.03 kVA
HEATING	0.00 kVA	0.00%	0.00 kVA	**Total Conn.:**	0.06 A
EXISTING	0.00 kVA		0.00 kVA	**Total Est. Demand:**	0.07 A

EQUIPMENT GROUNDING CONDUCTOR SCHEDULE

CIRCUIT AMPACITY	SIZE (AWG)
20	#12
30	#10
40	#10
50	#10
60	#10
70	#8
80	#8
90	#8
100	#8
110	#6
125	#6
150	#6
175	#6
200	#4
225	#4
250	#4
300	#4
350	#3
400	#3

NOTES:
1. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL BE COPPER.

BRANCH CIRCUIT WIRING SCHEDULE

120 VOLT 1Ø, 2W.+ GND CIRCUITS

CIRCUIT BREAKER	CONDUCTOR	RACEWAY	BRANCH CIRCUIT DISTANCE
15A-1P/20A-1P	2 #12 & 1 #12 GND.	3/4" CONDUIT	0 - 65'
	2 #10 & 1 #10 GND.	3/4" CONDUIT	65' - 100'
	2 #8 & 1 #10 GND.	3/4" CONDUIT	100' - 160'
	2 #6 & 1 #10 GND.	3/4" CONDUIT	160' - 255'
30A-1P	2 #10 & 1 #10 GND.	3/4" CONDUIT	0 - 65'
	2 #8 & 1 #10 GND.	3/4" CONDUIT	65' - 105'
	2 #6 & 1 #10 GND.	3/4" CONDUIT	105' - 170'
	2 #4 & 1 #10 GND.	1" CONDUIT	170' - 270'

120/208 VOLT 1Ø, 3W.+ GND CIRCUITS

CIRCUIT BREAKER	CONDUCTOR	RACEWAY	BRANCH CIRCUIT DISTANCE
20A-2P *	3 #12 & 1 #12 GND.	3/4" CONDUIT	0 - 110'
	3 #10 & 1 #10 GND.	3/4" CONDUIT	110' - 170'
	3 #8 & 1 #10 GND.	3/4" CONDUIT	170' - 275'
	3 #6 & 1 #10 GND.	3/4" CONDUIT	275' - 440'
30A-2P *	3 #10 & 1 #10 GND.	3/4" CONDUIT	0 - 115'
	3 #8 & 1 #10 GND.	3/4" CONDUIT	115' - 185'
	3 #6 & 1 #10 GND.	3/4" CONDUIT	185' - 290'
	3 #4 & 1 #8 GND.	1" CONDUIT	290' - 460'
40A-2P *	3 #8 & 1 #10 GND.	3/4" CONDUIT	0 - 135'
	3 #6 & 1 #10 GND.	3/4" CONDUIT	135' - 220'
	3 #4 & 1 #8 GND.	1" CONDUIT	220' - 340'
50A-2P *	3 #6 & 1 #10 GND.	3/4" CONDUIT	0 - 175'
	3 #4 & 1 #8 GND.	1" CONDUIT	175' - 280'
	3 #3 & 1 #8 GND.	1-1/4" CONDUIT	280' - 350'
60A-2P *	3 #6 & 1 #10 GND.	3/4" CONDUIT	0 - 145'
	3 #4 & 1 #8 GND.	1" CONDUIT	145' - 230'
	3 #3 & 1 #8 GND.	1-1/4" CONDUIT	230' - 290'
	3 #2 & 1 #8 GND.	1-1/2" CONDUIT	290' - 365'

208 VOLT 1Ø, 2W.+ GND CIRCUITS

CIRCUIT BREAKER	CONDUCTOR	RACEWAY	BRANCH CIRCUIT DISTANCE
20A-2P	2 #12 & 1 #12 GND.	3/4" CONDUIT	0 - 110'
	2 #10 & 1 #10 GND.	3/4" CONDUIT	110' - 170'
	2 #8 & 1 #10 GND.	3/4" CONDUIT	170' - 275'
	2 #6 & 1 #10 GND.	3/4" CONDUIT	275' - 440'
30A-2P	2 #10 & 1 #10 GND.	3/4" CONDUIT	0 - 115'
	2 #8 & 1 #10 GND.	3/4" CONDUIT	115' - 185'
	2 #6 & 1 #10 GND.	3/4" CONDUIT	185' - 290'
	2 #4 & 1 #8 GND.	1" CONDUIT	290' - 460'
40A-2P	2 #8 & 1 #10 GND.	3/4" CONDUIT	0 - 135'
	2 #6 & 1 #10 GND.	3/4" CONDUIT	135' - 220'
	2 #4 & 1 #8 GND.	1" CONDUIT	220' - 340'
50A-2P	2 #6 & 1 #10 GND.	3/4" CONDUIT	0 - 175'
	2 #4 & 1 #8 GND.	1" CONDUIT	175' - 280'
	2 #3 & 1 #8 GND.	1-1/4" CONDUIT	280' - 350'
60A-2P	2 #6 & 1 #10 GND.	3/4" CONDUIT	0 - 145'
	2 #4 & 1 #8 GND.	1" CONDUIT	145' - 230'
	2 #3 & 1 #8 GND.	1-1/4" CONDUIT	230' - 290'
	2 #2 & 1 #8 GND.	1-1/2" CONDUIT	290' - 365'

BRANCH CIRCUIT WIRING SCHEDULE

208 VOLT 3Ø, 3W.+ GND CIRCUITS

CIRCUIT BREAKER	CONDUCTOR	RACEWAY	BRANCH CIRCUIT DISTANCE
20A-3P	3 #12 & 1 #12 GND.	3/4" CONDUIT	0 - 95'
	3 #10 & 1 #10 GND.	3/4" CONDUIT	95' - 150'
	3 #8 & 1 #10 GND.	3/4" CONDUIT	150' - 240'
	3 #6 & 1 #10 GND.	3/4" CONDUIT	240' - 380'
30A-3P	3 #10 & 1 #10 GND.	3/4" CONDUIT	0 - 100'
	3 #8 & 1 #10 GND.	3/4" CONDUIT	100' - 160'
	3 #6 & 1 #10 GND.	3/4" CONDUIT	160' - 255'
	3 #4 & 1 #8 GND.	1" CONDUIT	255' - 400'
40A-3P	3 #8 & 1 #10 GND.	3/4" CONDUIT	0 - 120'
	3 #6 & 1 #10 GND.	3/4" CONDUIT	120' - 190'
	3 #4 & 1 #8 GND.	1" CONDUIT	190' - 300'
50A-3P	3 #6 & 1 #10 GND.	3/4" CONDUIT	0 - 150'
	3 #4 & 1 #8 GND.	1" CONDUIT	150' - 240'
	3 #3 & 1 #8 GND.	1/4" CONDUIT	240' - 305'
60A-3P	3 #6 & 1 #10 GND.	3/4" CONDUIT	0 - 125'
	3 #4 & 1 #8 GND.	1" CONDUIT	125' - 200'
	3 #3 & 1 #8 GND.	1/4" CONDUIT	200' - 255'
	3 #2 & 1 #8 GND.	1-1/2" CONDUIT	255' - 320'

120/208 VOLT 3Ø, 4W.+ GND CIRCUITS

CIRCUIT BREAKER	CONDUCTOR	RACEWAY	BRANCH CIRCUIT DISTANCE
20A-3P *	4 #12 & 1 #12 GND.	3/4" CONDUIT	0 - 95'
	4 #10 & 1 #10 GND.	3/4" CONDUIT	95' - 150'
	4 #8 & 1 #10 GND.	3/4" CONDUIT	150' - 240'
	4 #6 & 1 #10 GND.	1" CONDUIT	240' - 380'
30A-3P *	4 #10 & 1 #10 GND.	3/4" CONDUIT	0 - 100'
	4 #8 & 1 #10 GND.	3/4" CONDUIT	100' - 160'
	4 #6 & 1 #10 GND.	1" CONDUIT	160' - 255'
	4 #4 & 1 #8 GND.	1/4" CONDUIT	255' - 400'
40A-3P *	4 #8 & 1 #10 GND.	3/4" CONDUIT	0 - 120'
	4 #6 & 1 #10 GND.	1" CONDUIT	120' - 190'
	4 #4 & 1 #8 GND.	1/4" CONDUIT	190' - 300'
50A-3P *	4 #6 & 1 #10 GND.	1" CONDUIT	0 - 150'
	4 #4 & 1 #8 GND.	1/4" CONDUIT	150' - 240'
	4 #3 & 1 #8 GND.	1/4" CONDUIT	240' - 305'
60A-3P *	4 #6 & 1 #10 GND.	1" CONDUIT	0 - 125'
	4 #4 & 1 #8 GND.	1/4" CONDUIT	125' - 200'
	4 #3 & 1 #8 GND.	1/4" CONDUIT	200' - 255'
	4 #2 & 1 #8 GND.	1-1/2" CONDUIT	255' - 320'

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PROFESSIONAL ENGINEER
04-10-2026

TROY AQUATIC PARK MAINTENANCE IMPROVEMENTS

CITY OF TROY RECREATION
460 WEST STAUNTON DRIVE TROY, OHIO 45373

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NO.	DATE	ISSUED / REVISION
	04/10/26	BID SET

PROJECT NO. **25306.00**

DRAWING TITLE:
ELECTRICAL SCHEDULES

KORDA
KORDA: NEMETH ENGINEERING
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DRAWN BY: Garrett Strauss
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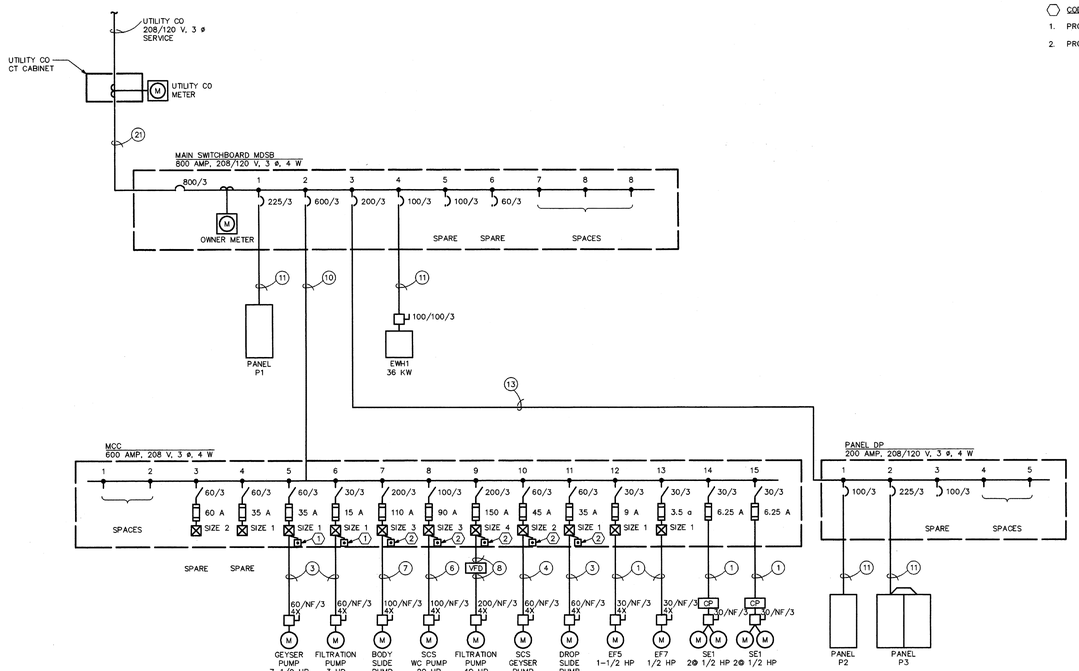
4/10/2026 11:23:41 AM Autodesk Docs://25306.00_City of Troy Aquatic Park Improvements & Maintenance/R24-260204 City of Troy Aquatic Park - ELEC.rvt

DRAWN BY: Garrett Strauss CHECKED BY: Stan Kmonk

○ ONE LINE DIAGRAM-FEEDER SCHEDULE

OVERCURRENT PROTECTION AMPACITY	NOTE NUMBER	NUMBER OF SETS	PHASE WIRES QUANTITY – SIZE	NEUTRAL WIRE QUANTITY – SIZE	GROUND SIZE	ISOLATED GROUND SIZE	CONDUIT SIZE PER SET	COMMENTS/REMARKS
20	1	1	3–12 AWG	–	12 AWG	–	3/4"	3 PHASE EQUIPMENT AND MOTOR FEEDERS
30	2	1	3–10 AWG	–	10 AWG	–	3/4"	
40	3	1	3–8 AWG	–	10 AWG	–	3/4"	
50	4	1	3–6 AWG	–	10 AWG	–	3/4"	
70	5	1	3–4 AWG	–	8 AWG	–	1"	
90	6	1	3–2 AWG	–	8 AWG	–	1 1/4"	
110	7	1	3–1 AWG	–	6 AWG	–	1 1/4"	
150	8	1	3–1/0 AWG	–	6 AWG	–	1 1/2"	
175	9	1	3–2/0 AWG	–	6 AWG	–	1 1/2"	
600	10	2	3–350 KCMIL	–	4 AWG	–	3"	
100	11	1	3–1 AWG	1–1 AWG	8 AWG	–	1 1/2"	POWER PANELS, DISTRIBUTION PANELBOARDS, AND SWITCHBOARDS
150	12	1	3–1/0 AWG	1–1/0 AWG	6 AWG	–	2"	
200	13	1	3–3/0 AWG	1–3/0 AWG	6 AWG	–	2"	
225	14	1	3–4/0 AWG	1–4/0 AWG	4 AWG	–	2 1/2"	
250	15	1	3–250 KCMIL	1–250 KCMIL	4 AWG	–	2 1/2"	
300	16	1	3–350 KCMIL	1–350 KCMIL	4 AWG	–	3"	
350	17	1	3–500 KCMIL	1–500 KCMIL	3 AWG	–	3 1/2"	
400	18	1	3–600 KCMIL	1–600 KCMIL	3 AWG	–	3 1/2"	
500	19	2	3–250 KCMIL	1–250 KCMIL	2 AWG	–	2 1/2"	
600	20	2	3–350 KCMIL	1–350 KCMIL	1 AWG	–	3"	
800	21	2	3–600 KCMIL	1–600 KCMIL	1/0 AWG	–	4"	



CODED NOTES

1. PROVIDE HAND–OFF–AUTO SWITCH.
2. PROVIDE ON/OFF PUSH BUTTONS.

A WIRING DIAGRAM

ONE LINE N.T.S.

PANEL ID: P1 — LOCATION: MECHANICAL BLDG. — MOUNTING: SURFACE — MAIN TYPE: MLO — VOLTAGE: 208 / 120 — PHASE: 3 — WIRE: 4 — MAIN SIZE: 225 AMPS — COORDINATE LUG SIZE WITH WIRE SIZE ON 1 LINE DIAGRAM.
LEGEND: GF: GROUND FAULT CIRCUIT INTERRUPTER

GND SIZE	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CIRCUIT BREAKER SIZE/TYPE	CIRCUIT NUMBER	CIRCUIT BREAKER SIZE/TYPE	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	GND SIZE
12	12	POLE LIGHTS/RECEPT.	20/1	1 2	20/1 GF	UNDERWATER POOL LIGHTS	12	12
12	12	LIGHTING	20/1	3 4	20/1 GF	UNDERWATER POOL LIGHTS	12	12
12	12	LIGHTING	20/1	5 6	20/1	EF6/RECEPTACLES	12	12
12	12	EXTERIOR LIGHTING	20/1	7 8	20/1	UH1/RECEPTACLES	12	12
12	12	TIME CLOCK	20/1	9 10	20/1	RECEPTACLES	12	12
12	12	OUTDOOR RECEPTACLES	20/1	11 12	20/1	RECEPTACLES	12	12
12	12	OUTDOOR RECEPTACLES	20/1	13 14	20/1	EF2/RECEPTACLES	12	12
12	12	OUTDOOR RECEPTACLES	20/1	15 16	20/1 GF	CHEMICAL CONTROLLER	12	12
12	12	EYE WASH	20/1	17 18	20/1 GF	CHEMICAL CONTROLLER	12	12
10	8	EWH2	40/2	19 20	20/1	POOL HEATER CTRL PANEL	12	12
–	8	–		21 22	20/1	CIRCULATION PUMP	12	12
12	12	MOTORIZED DAMPER	20/1	23 24	20/1	POOL HEATER CTRL PANEL	12	12
		SPARE	20/1	25 26	20/1	CIRCULATION PUMP	12	12
		SPARE	20/1	27 28	20/1	CO2 FEED SYSTEM	12	12
		SPARE	20/1	29 30	20/1	BOOSTER PUMP	12	12
		SPARE	20/1	31 32	20/1	AUTOFILL RELAY CTRL	12	12
		SPARE	20/1	33 34	20/1	UH2	12	12
		SPARE	20/1	35 36	20/1	–	12	–
		SPARE	20/1	37 38	20/1	SPARE		
		SPARE	20/1	39 40	20/1	SPARE		
		SPARE	20/1	41 42	20/1	SPARE		

PANEL LOAD SUMMARY: LIGHTING: 5.5 KVA; RECEPTACLES & MISC.: 15.7 KVA; MOTOR: 2.0 KVA; HEATING: 8.3 KVA; TOTAL: 31.5 KVA
PANEL AMP SUMMARY: 102.8 PHASE A; 101.4 PHASE B; 74.2 PHASE C

PANEL ID: P2 — LOCATION: BATH HOUSE — MOUNTING: SURFACE — MAIN TYPE: MLO — VOLTAGE: 208 / 120 — PHASE: 3 — WIRE: 4 — MAIN SIZE: 100 AMPS — COORDINATE LUG SIZE WITH WIRE SIZE ON 1 LINE DIAGRAM.
LEGEND:

GND SIZE	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CIRCUIT BREAKER SIZE/TYPE	CIRCUIT NUMBER	CIRCUIT BREAKER SIZE/TYPE	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	GND SIZE
12	12	POLE LIGHT/RECEPT.	20/1	1 2	20/1	RECEPTACLES	12	12
12	12	EXTERIOR LIGHTING	20/1	3 4	20/1	RECEPTACLES	12	12
12	12	EXTERIOR LIGHTING	20/1	5 6	20/1	RECEPTACLES	12	12
12	12	LIGHTING	20/1	7 8	20/1	RECEPTACLES	12	12
12	12	LIGHTING	20/1	9 10	20/1	SWIMSUIT DRYER	12	12
12	12	TIME CLOCK	20/1	11 12	20/1	HAIR/HAND DRYER	12	12
12	12	AUTO. FAUCETS	20/1	13 14	20/1	HAIR/HAND DRYER	12	12
12	12	AUTO. FLUSH VALVES	20/1	15 16	20/1	RECEPTACLES	12	12
12	12	AUTO. FAUCETS	20/1	17 18	20/1	RECEPTACLES	12	12
12	12	AUTO. FLUSH VALVES	20/1	19 20	20/1	RECEPTACLES	12	12
12	12	MOTORIZED DAMPER	20/1	21 22	20/1	SWIMSUIT DRYER	12	12
		SPARE	20/1	23 24	20/1	HAIR/HAND DRYER	12	12
		SPARE	20/1	25 26	20/1	HAIR/HAND DRYER	12	12
		SPARE	20/1	27 28	20/1	RECEPTACLES	12	12
		SPARE	20/1	29 30	20/1	RECEPTACLES	12	12
		SPARE	20/1	31 32	20/1	EF1	12	12
		SPARE	20/1	33 34	20/1	–	12	–
		SPARE	20/1	35 36	20/1	–	12	–
		SPARE	20/1	37 38	20/1	GAS FIRED WATER HEATER	12	12
		SPARE	20/1	39 40	20/1	FU2	12	12
		SPARE	20/1	41 42	20/1	SPARE		

PANEL LOAD SUMMARY: LIGHTING: 3.6 KVA; RECEPTACLES & MISC.: 21.4 KVA; MOTOR: 3.4 KVA; HEATING: 1.0 KVA; TOTAL: 29.4 KVA
PANEL AMP SUMMARY: 87.6 PHASE A; 93.6 PHASE B; 63.4 PHASE C

PANEL ID: P3 — LOCATION: CONCESSION — MOUNTING: SURFACE — MAIN TYPE: MLO — VOLTAGE: 208 / 120 — PHASE: 3 — WIRE: 4 — MAIN SIZE: 225 AMPS — COORDINATE LUG SIZE WITH WIRE SIZE ON 1 LINE DIAGRAM.
LEGEND:

GND SIZE	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CIRCUIT BREAKER SIZE/TYPE	CIRCUIT NUMBER	CIRCUIT BREAKER SIZE/TYPE	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	GND SIZE
12	12	RECEPTACLES	20/1	1 2	20/1	FU1	12	12
12	12	RECEPTACLES	20/1	3 4	20/1	LIGHTING	12	12
12	12	CASH REGISTER	20/1	5 6	20/1	LIGHTING	12	12
12	12	RECEPTACLES	20/1	7 8	20/1	EXTERIOR LIGHTING	12	12
12	12	RECEPTACLES	20/1	9 10	20/1	CASH REGISTER	12	12
12	12	RECEPTACLES	20/1	11 12	20/1	MICROWAVE	12	12
12	12	RECEPT./REFRIGERATOR	20/1	13 14	20/1	SOUND EQUIPMENT RACK	12	12
12	12	RECEPTACLES	20/1	15 16	20/1	CASH REGISTER	12	12
12	12	EF4/RECEPTACLES	20/1	17 18	20/1	MICROWAVE	12	12
12	12	GAS FIRED WATER HEATER	20/1	19 20	20/1	WARMING UNIT	12	12
12	12	EF3/RECEPTACLES	20/1	21 22	30/2	ICE MACHINE	10	10
10	6	ACCU1	40/3	23 24	–	–	10	–
–	6	–	–	25 26	20/1	FREEZER	12	12
–	6	–	–	27 28	20/2	PIZZA OVEN	12	12
12	12	FREEZER	20/1	29 30			12	–
12	12	RECEPTACLES	20/1	31 32	20/1	SODA MACHINE	12	12
12	12	NACHO CHEESE WARMER	20/1	33 34	20/1	FROZEN MACHINE	12	12
12	12	RECEPTACLES	20/1	35 36	30/2	SOFT SERVE MACHINE	10	10
12	12	RECEPTACLES	20/1	37 38	–	–	10	–
12	12	HEATED DISPLAY CABINET	20/1	39 40	20/1	UNDER COUNTER REFRIG.	12	12
12	12	SEWAGE ALARM PANEL	20/1	41 42	20/1	SPARE		

PANEL LOAD SUMMARY: (ALL TOTALS INCLUDE BOTH TUBS) LIGHTING: 2.5 KVA; RECEPTACLES & MISC.: 41.3 KVA; MOTOR: 6.5 KVA; TOTAL: 50.7 KVA
PANEL AMP SUMMARY: 131.7 PHASE A; 141.2 PHASE B; 167.4 PHASE C

PANEL ID: P3 — LOCATION: CONCESSION — MOUNTING: SURFACE — MAIN TYPE: MLO — VOLTAGE: 208 / 120 — PHASE: 3 — WIRE: 4 — MAIN SIZE: 225 AMPS — COORDINATE LUG SIZE WITH WIRE SIZE ON 1 LINE DIAGRAM.
LEGEND:

GND SIZE	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CIRCUIT BREAKER SIZE/TYPE	CIRCUIT NUMBER	CIRCUIT BREAKER SIZE/TYPE	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	GND SIZE
		SPARE	20/2	43 44	20/1	SPARE		
		–	–	45 46	20/1	SPARE		
		SPARE	30/2	47 48	20/1	SPARE		
		–	–	49 50	20/1	SPARE		
		SPARE	30/3	51 52	20/1	SPARE		
		–	–	53 54	20/1	SPARE		
		–	–	55 56	20/1	SPARE		
12	12	MOTORIZED DAMPER	20/1	57 58	20/1	SPARE		
12	12	RECEPTACLES	20/1	59 60	20/1	SPARE		
		SPARE	20/1	61 62	20/1	SPACE		
		SPARE	20/1	63 64	20/1	SPACE		
		SPARE	20/1	65 66	20/1	SPACE		
		SPACE		67 68		SPACE		
		SPACE		69 70		SPACE		
		SPACE		71 72		SPACE		
		SPACE		73 74		SPACE		
		SPACE		75 76		SPACE		
		SPACE		77 78		SPACE		
		SPACE		79 80		SPACE		
		SPACE		81 82		SPACE		
		SPACE		83 84		SPACE		

FOR PANEL LOAD AND PANEL AMP SUMMARY INFORMATION, REFER TO LEFT TUB TOTALS

SYMBOLS LIST FOR WIRING DIAGRAMS AND DETAILS

1. SOME SYMBOLS MAY NOT BE USED.

SYMBOL	DESCRIPTION
100/3	
100	FUSIBLE SWITCH WITH FUSES (SIZE AS NOTED)
100/3	CIRCUIT BREAKER (SIZE AS NOTED)
100/3	SPACE FOR DEVICE (SIZE AS NOTED)
100/3	SPARE FUSIBLE SWITCH (WITHOUT FUSES)
GF	GROUND FAULT SENSOR/OPERATOR
	CURRENT TRANSFORMER
	ANALOG WATTHOUR METER
M	UTILITY METER
	PANELBOARD
T1	POWER TRANSFORMER, DESIGNATION AS NOTED (SEE TRANSFORMER SCHEDULE)
#6	GROUNDING ELECTRODE AND CONDUCTOR (CONDUCTOR SIZE AS NOTED)
J 1/25/3 3R, NF	COMBINATION MOTOR STARTER (STARTER SIZE, FUSE SIZE, NO. OF POLES –AS NOTED) "3R" DENOTES NEMA "3R" ENCLOSURE, "NF"=NONFUSED
1/25/3 3R, NF	MAGNETIC MOTOR STARTER (STARTER SIZE, FUSE SIZE, NO. OF POLES –AS NOTED) "3R" DENOTES NEMA "3R" ENCLOSURE, "NF"=NONFUSED
J 30/20/3 NF	SAFETY SWITCH (SWITCH SIZE, FUSE SIZE, NO. OF POLES AS NOTED) NF=NONFUSED
WP	WEATHERPROOF
CP	CONTROL PANEL (BY OTHERS)
VFD	VARIABLE FREQUENCY DRIVE
M	MOTOR
	EQUIPMENT (AS NOTED)

18 Sheet E2.1 – One Line Diagram

1. Panel P3, Circuit No. 22, 28 and 36 – change circuit breakers to be of GFCI type.
2. Panel P3, Circuit No. 42 – Change branch circuit description to "UC Light". Provide 1 set of 3-#12 AWG phase wires and 1-#12 AWG ground wire in a ¾" conduit.
3. Panel P1, Circuit No. 42 – Change branch circuit description to "Irrigation Controller". Provide 1 set of 3-#12 AWG phase wires and 1-#12 AWG ground wire in a ¾" conduit.
4. Panel P2, Circuit No. 23 – Change branch circuit description to "Electric Crock". Provide 1 set of 3-#12 AWG phase wires and 1-#12 AWG ground wire in a ¾" conduit.
5. Panel P2, Circuit No. 25 – Change branch circuit description to "Signage Lighting". Provide 1 set of 3-#10 AWG phase wires and 1-#10 AWG ground wire in a ¾" conduit.
6. Change all wiring size for exterior lighting to 1 set of 3-#10 AWG phase wires and 1-#10 AWG ground wire in a ¾" conduit.

JOHN POE ARCHITECTS

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STATE OF OHIO — STANLEY J. KMONK — 51379 — REGISTERED PROFESSIONAL ENGINEER — 04-10-2026

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REVISIONS

TROY OUTDOOR AQUATICS FACILITY

FOR:
CITY OF TROY
100 SOUTH MARKET STREET
TROY, OHIO 45373

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DATE 07/13/2004
DRAWN BY
CHECKED BY
PROJECT NO 03075
ONE LINE DIAGRAM
E2.1

TROY AQUATIC PARK MAINTENANCE IMPROVEMENTS

CITY OF TROY RECREATION
460 WEST STAUNTON DRIVE TROY, OHIO 45373

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NO.	DATE	ISSUED / REVISION
	04/10/26	BID SET

PROJECT NO. 25306.00
DRAWING TITLE:
ONE-LINE DIAGRAM - EXISTING

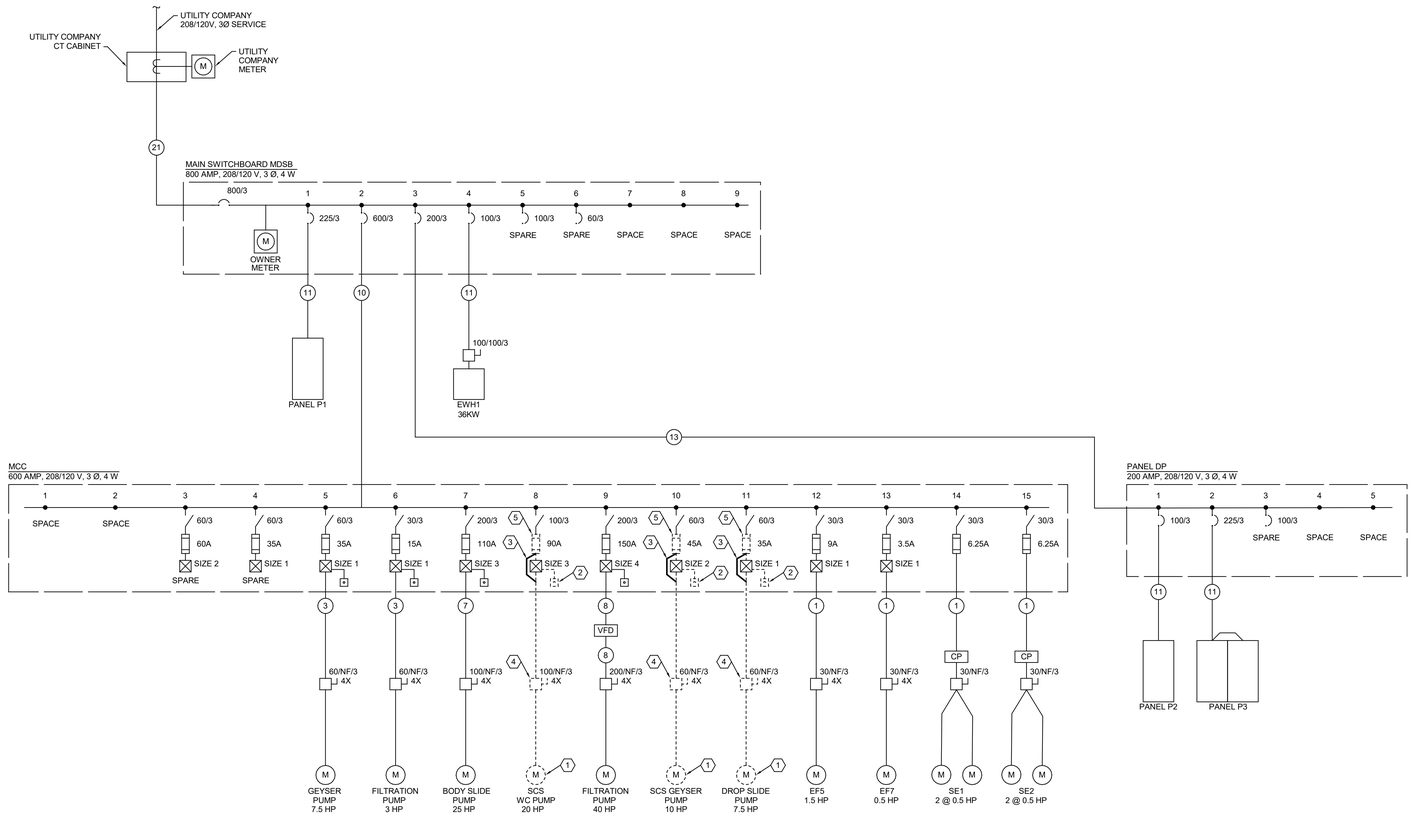
EXISTING DRAWING FOR REFERENCE ONLY

KORDA
KORDA NEMETH ENGINEERING
WWW.KORDA.COM
DRAWN BY: Garrett Strauss
DESIGNED BY: Heath Jeffries
CHECKED BY: Stan Kmonk
PROJECT NUMBER: 2026-0204

E601

4/10/2026 11:23:59 AM Autodesk Docs://25306.00_City of Troy Aquatic Park Improvements & Maintenance/R24-260204 City of Troy Aquatic Park - ELEC.rvt

DRAWN BY: Garrett Strauss CHECKED BY: Stan Kmonk



1 WIRING DIAGRAM

ONE LINE - DEMOLITION N.T.S.

GENERAL NOTES:

1. EXISTING TO REMAIN EQUIPMENT SHOWN AS SOLID LINE TYPE UNLESS NOTED OTHERWISE.
2. DEMOLITION SCOPE SHOWN AS DASHED LINE TYPE UNLESS NOTED OTHERWISE.

CODED NOTES:

1. EXISTING PUMP TO BE REMOVED.
2. REMOVE EXISTING ON/OFF PUSH BUTTON FROM MCC AND COVER HOLES IN DOOR.
3. FIELD MODIFY MCC BUCKET SUCH THAT THE STARTER IS BYPASSED AND THE CIRCUIT ACTS AS A FUSED DISCONNECT SWITCH ONLY.
4. REMOVE EXISTING DISCONNECT SWITCH.
5. REMOVE EXISTING FUSES. FUSES TO BE REPLACED.

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STATE OF OHIO
STANLEY J. KMONK
E-51379
REGISTERED PROFESSIONAL ENGINEER
04-10-2026

TROY AQUATIC PARK MAINTENANCE IMPROVEMENTS

CITY OF TROY RECREATION

460 WEST STAUNTON DRIVE TROY, OHIO 45373

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PROJECT NO. **25306.00**

DRAWING TITLE:

ONE-LINE DIAGRAM - DEMOLITION

KORDA
KORDA, NEMETH ENGINEERING
WWW.KORDA.COM
DRAWN BY: Garrett Strauss
DESIGNED BY: Heath Jeffries
CHECKED BY: Stan Kmonk
PROJECT NUMBER: 2026-0204

E602

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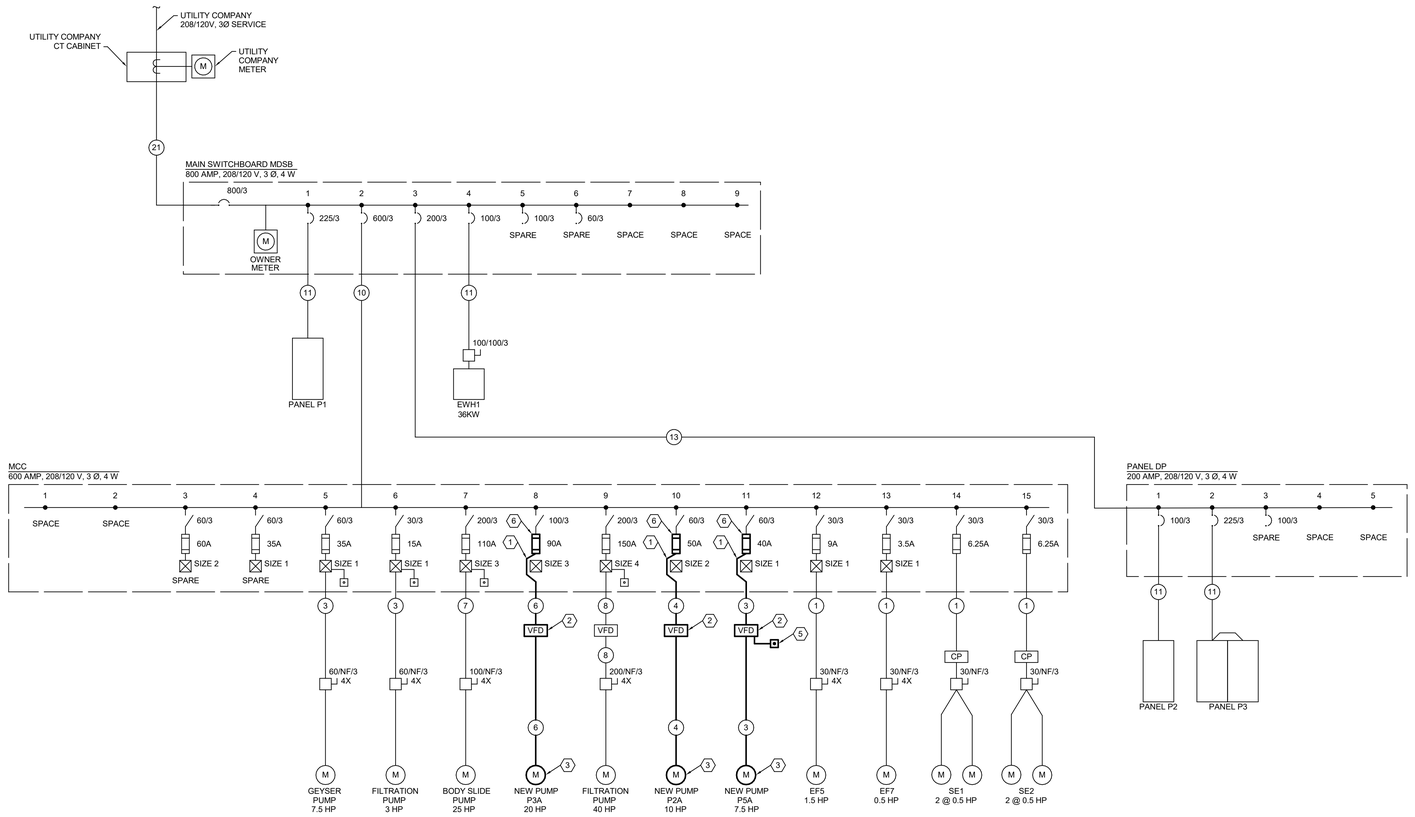

1 WIRING DIAGRAM

ONE LINE - NEW WORK N.T.S.

GENERAL NOTES:

1. EXISTING TO REMAIN EQUIPMENT SHOWN AS SOLID LIGHTWEIGHT LINE TYPE UNLESS NOTED OTHERWISE.
2. NEW WORK SHOWN AS SOLID BOLD LINE TYPE UNLESS NOTED OTHERWISE.

CODED NOTES:

1. BYPASSED STARTED.
2. NEW VFD.
3. NEW POOL PUMP.
4. NOT USED.
5. PROVIDE NEW EMERGENCY STOP BUTTON.
6. PROVIDE NEW FUSES.

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TROY AQUATIC PARK MAINTENANCE IMPROVEMENTS

CITY OF TROY RECREATION

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PROJECT NO. **25306.00**

DRAWING TITLE:

ONE-LINE DIAGRAM - NEW WORK

KORDA
KORDA | NEMETH ENGINEERING
WWW.KORDA.COM
DRAWN BY: Garrett Strauss
DESIGNED BY: Heath Jeffries
CHECKED BY: Stan Kmonk
PROJECT NUMBER: 2026-0204

E603

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SYMBOLS LIST FOR WIRING DIAGRAMS AND DETAILS

1. SOME SYMBOLS MAY NOT BE USED.

SYMBOL	DESCRIPTION
100/3 / 100	FUSIBLE SWITCH WITH FUSES (SIZE AS NOTED)
100/3	CIRCUIT BREAKER (SIZE AS NOTED)
100/3	SPACE FOR DEVICE (SIZE AS NOTED)
100/3	SPARE FUSIBLE SWITCH (WITHOUT FUSES)
K	KIRK KEY INTERLOCK
S	SHUNT TRIP
AS · VS	AMMETER, VOLTMETER SWITCH
AM	ANALOG AMMETER
VM	ANALOG VOLTMETER
GF	GROUND FAULT SENSOR/OPERATOR
	CURRENT TRANSFORMER
	POTENTIAL TRANSFORMER
WHM	ANALOG WATTHOUR METER
M	UTILITY METER
M	ELECTRONIC METERING UNIT
	PANELBOARD
TX T1	POWER TRANSFORMER, "TX" DENOTES NAME "T1" NOTES TYPE (SEE TRANSFORMER SCHEDULE)
#6	GROUNDING ELECTRODE AND CONDUCTOR (CONDUCTOR SIZE AS NOTED)
1/25/3 3R, NF	COMBINATION MOTOR STARTER (STARTER SIZE, FUSE SIZE, NO. OF POLES -AS NOTED) "3R" DENOTES NEMA "3R" ENCLOSURE, "NF"=NONFUSED
1/25/3 3R, NF	MAGNETIC MOTOR STARTER (STARTER SIZE, FUSE SIZE, NO. OF POLES -AS NOTED) "3R" DENOTES NEMA "3R" ENCLOSURE, "NF"=NONFUSED
30/20/3 NF	SAFETY SWITCH (SWITCH SIZE, FUSE SIZE, NO. OF POLES AS NOTED) NF=NONFUSED
WP	WEATHERPROOF
CP	CONTROL PANEL (BY OTHERS)
VFD	VARIABLE FREQUENCY DRIVE
SPD	SURGE PROTECTION DEVICE
M	MOTOR
G	EMERGENCY GENERATOR
	AUTOMATIC TRANSFER SWITCH
	BYPASS/ISOLATION AUTOMATIC TRANSFER SWITCH
	MANUAL TRANSFER SWITCH
	EQUIPMENT (AS NOTED)
	PUSHBUTTON - NORMALLY OPEN
	PUSHBUTTON - NORMALLY CLOSED
	FIRE PUMP CONTROLLER (BY OTHERS)

ALUMINUM ONE LINE DIAGRAM-FEEDER SCHEDULE

INSULATION TYPE: COMPACT XHHW-2, ALUMINUM CONDUCTORS

OVERCURRENT PROTECTION AMPACITY	NOTE NUMBER	NUMBER OF SETS	PHASE WIRES QUANTITY - SIZE	NEUTRAL WIRE QUANTITY - SIZE	GROUND SIZE COPPER ONLY	CONDUIT SIZE PER SET	COMMENTS
100	1A	1	3 - #1 AWG	-	1 - #8 AWG	1-1/4"	
125	2A	1	3 - #2/0 AWG	-	1 - #6 AWG	1-1/2"	
150	3A	1	3 - #3/0 AWG	-	1 - #6 AWG	2"	
175	4A	1	3 - #4/0 AWG	-	1 - #6 AWG	2"	
200	5A	1	3 - 250 KCMIL	-	1 - #6 AWG	2"	
225	6A	1	3 - 300 KCMIL	-	1 - #4 AWG	2-1/2"	
250	7A	1	3 - 350 KCMIL	-	1 - #4 AWG	2-1/2"	
300	8A	1	3 - 500 KCMIL	-	1 - #4 AWG	3"	
350	9A	2	3 - #4/0 AWG	-	1 - #3 AWG	2"	
400	10A	2	3 - 250 KCMIL	-	1 - #3 AWG	2"	
500	11A	2	3 - 350 KCMIL	-	1 - #2 AWG	2-1/2"	
600	12A	2	3 - 500 KCMIL	-	1 - #1 AWG	3	
700	13A	3	3 - 350 KCMIL	-	1 - #1/0 AWG	2-1/2"	
800	14A	3	3 - 400 KCMIL	-	1 - #1/0 AWG	3"	
1000	15A	3	3 - 600 KCMIL	-	1 - #2/0 AWG	3-1/2"	
1200	16A	4	3 - 500 KCMIL	-	1 - #3/0 AWG	3"	
1600	17A	5	3 - 600 KCMIL	-	1 - #4/0 AWG	3-1/2"	
2000	18A	6	3 - 600 KCMIL	-	1 - 250 KCMIL	3-1/2"	
100	19A	1	3 - #1 AWG	1 - #1 AWG	1 - #8 AWG	1-1/2"	
125	20A	1	3 - #2/0 AWG	1 - #2/0 AWG	1 - #6 AWG	1-1/2"	
150	21A	1	3 - #3/0 AWG	1 - #3/0 AWG	1 - #6 AWG	2"	
200	22A	1	3 - 250 KCMIL	1 - 250 KCMIL	1 - #6 AWG	2-1/2"	
225	23A	1	3 - 300 KCMIL	1 - 300 KCMIL	1 - #4 AWG	3"	
250	24A	1	3 - 350 KCMIL	1 - 350 KCMIL	1 - #4 AWG	3"	
300	25A	1	3 - 500 KCMIL	1 - 500 KCMIL	1 - #4 AWG	3-1/2"	
350	26A	2	3 - #4/0 AWG	1 - #4/0 AWG	1 - #3 AWG	2"	
400	27A	2	3 - 250 KCMIL	1 - 250 KCMIL	1 - #3 AWG	2-1/2"	
500	28A	2	3 - 350 KCMIL	1 - 350 KCMIL	1 - #2 AWG	3"	
600	29A	2	3 - 500 KCMIL	1 - 500 KCMIL	1 - #1 AWG	3-1/2"	
700	30A	3	3 - 350 KCMIL	1 - 350 KCMIL	1 - #1/0 AWG	3"	
800	31A	3	3 - 400 KCMIL	1 - 400 KCMIL	1 - #1/0 AWG	3"	
1000	32A	3	3 - 600 KCMIL	1 - 600 KCMIL	1 - #2/0 AWG	4"	
1200	33A	4	3 - 500 KCMIL	1 - 500 KCMIL	1 - #3/0 AWG	3-1/2"	
1600	34A	5	3 - 600 KCMIL	1 - 600 KCMIL	1 - #4/0 AWG	4"	
2000	35A	6	3 - 600 KCMIL	1 - 600 KCMIL	1 - 250 KCMIL	4"	
2500	36A	8	3 - 600 KCMIL	1 - 600 KCMIL	1 - 350 KCMIL	4"	
3000	37A	8	3 - 700 KCMIL	1 - 700 KCMIL	1 - 400 KCMIL	4"	
4000	38A	12	3 - 600 KCMIL	1 - 600 KCMIL	1 - 500 KCMIL	4"	
5000	39A	13	3 - 750 KCMIL	1 - 750 KCMIL	1 - 700 KCMIL	5"	
OPEN	53A	-	-	-	-	-	
125	54A	1	3 - #2/0 AWG	1 - #2/0 AWG	1 - #6 AWG	1-1/2"	30 KVA TXMR SEC
175	55A	1	3 - #4/0 AWG	1-#4/0 AWG	1 - #4 AWG	2-1/2"	45 KVA TXMR SEC
225	56A	1	3 - 300 KCMIL	1 - 300 KCMIL	1 - #2 AWG	3"	75 KVA TXMR SEC
400	57A	2	3 - 250 KCMIL	1 - 250 KCMIL	1 - #1/0 AWG	2-1/2"	112.5 KVA TXMR SEC
600	58A	2	3 - 500 KCMIL	1 - 500 KCMIL	1 - #2/0 AWG	3.5"	150 KVA TXMR SEC
800	59A	3	3 - 400 KCMIL	1 - 400 KCMIL	1 - #3/0 AWG	3"	225 KVA TXMR SEC
1200	60A	4	3 - 500 KCMIL	1 - 500 KCMIL	1 - 250 KCMIL	4"	300 KVA TXMR SEC
1600	61A	5	3 - 600 KCMIL	1 - 600 KCMIL	1 - 400 KCMIL	4"	500 KVA TXMR SEC

COPPER ONE LINE DIAGRAM-FEEDER SCHEDULE

INSULATION TYPE: THWN with COPPER CONDUCTORS

OVERCURRENT PROTECTION AMPACITY	NOTE NUMBER	NUMBER OF SETS	PHASE WIRES QUANTITY - SIZE	NEUTRAL WIRE QUANTITY - SIZE	GROUND SIZE (ECG)	CONDUIT SIZE PER SET	COMMENTS
20	1	1	3 - #12 AWG	-	1 - #12 AWG	3/4"	
30	2	1	3 - #10 AWG	-	1 - #10 AWG	3/4"	
40	3	1	3 - #8 AWG	-	1 - #10 AWG	3/4"	
50	4	1	3 - #6 AWG	-	1 - #10 AWG	3/4"	
70	5	1	3 - #4 AWG	-	1 - #8 AWG	1"	
90	6	1	3 - #2 AWG	-	1 - #8 AWG	1-1/4"	
110	7	1	3 - #1 AWG	-	1 - #6 AWG	1-1/4"	
150	8	1	3 - #1/0 AWG	-	1 - #6 AWG	1-1/2"	
175	9	1	3 - #2/0 AWG	-	1 - #6 AWG	1-1/2"	
200	10	1	3 - #3/0 AWG	-	1 - #6 AWG	2"	
225	11	1	3 - #4/0 AWG	-	1 - #4 AWG	2"	
250	12	1	3 - 250 KCMIL	-	1 - #4 AWG	2"	
300	13	1	3 - 350 KCMIL	-	1 - #4 AWG	2-1/2"	
350	14	1	3 - 500 KCMIL	-	1 - #3 AWG	3"	
400	15	1	3 - 600 KCMIL	-	1 - #3 AWG	3"	
500	16	2	3 - 250 KCMIL	-	1 - #2 AWG	2"	
600	17	2	3 - 350 KCMIL	-	1 - #1 AWG	2-1/2"	
700	18	2	3 - 500 KCMIL	-	1 - #1/0 AWG	3"	
800	19	2	3 - 600 KCMIL	-	1 - #1/0 AWG	3"	
1000	20	3	3 - 400 KCMIL	-	1 - #2/0 AWG	3"	
1200	21	3	3 - 600 KCMIL	-	1 - #3/0 AWG	3"	
1600	22	4	3 - 600 KCMIL	-	1 - #4/0 AWG	3-1/2"	
OPEN	23	-	-	-	-	-	
100	24	1	3 - #1 AWG	1 - #1 AWG	1 - #8 AWG	1-1/2"	
150	25	1	3 - #1/0 AWG	1 - #1/0 AWG	1 - #6 AWG	2"	
200	26	1	3 - #3/0 AWG	1 - #3/0 AWG	1 - #6 AWG	2"	
225	27	1	3 - #4/0 AWG	1 - #4/0 AWG	1 - #4 AWG	2-1/2"	
250	28	1	3 - 250 KCMIL	1 - 250 KCMIL	1 - #4 AWG	2-1/2"	
300	29	1	3 - 350 KCMIL	1 - 350 KCMIL	1 - #4 AWG	3"	
350	30	1	3 - 500 KCMIL	1 - 500 KCMIL	1 - #3 AWG	3-1/2"	
400	31	1	3 - 600 KCMIL	1 - 600 KCMIL	1 - #3 AWG	3-1/2"	
500	32	2	3 - 250 KCMIL	1 - 250 KCMIL	1 - #2 AWG	2-1/2"	
600	33	2	3 - 350 KCMIL	1 - 350 KCMIL	1 - #1 AWG	3"	
800	34	2	3 - 600 KCMIL	1 - 600 KCMIL	1 - #1/0 AWG	4"	
1000	35	3	3 - 400 KCMIL	1 - 400 KCMIL	1 - #2/0 AWG	3"	
1200	36	3	3 - 600 KCMIL	1 - 600 KCMIL	1 - #3/0 AWG	4"	
1600	37	4	3 - 600 KCMIL	1 - 600 KCMIL	1 - #4/0 AWG	4"	
2000	38	5	3 - 600 KCMIL	1 - 600 KCMIL	1 - 250 KCMIL	4"	
2500	39	6	3 - 600 KCMIL	1 - 600 KCMIL	1 - 350 KCMIL	4"	
3000	40	8	3 - 500 KCMIL	1 - 500 KCMIL	1 - 400 KCMIL	4"	
4000	41	10	3 - 600 KCMIL	1 - 600 KCMIL	1 - 500 KCMIL	4"	
FIRE PUMP	48	1	3 - #1 AWG	-	1 - #6 AWG	2"	2 HR FIRE RATED
FIRE PUMP	49	1	6 - #1 AWG	-	1 - #6 AWG	2"	Y- △ STARTER
TVSS	50	1	3 - #2 AWG	1 - #2 AWG	1 - #2 AWG	1-1/2"	MINIMIZE LENGTH
15 KV	51	1	3 - #4/0 AWG	-	1 - #4/0 AWG	5"	
15 KV	52	1	3 - 500 KCMIL	-	1 - #4/0 AWG	5"	
OPEN	53	-	-	-	-	-	
50	54	1	3 - #8 AWG	3 - #8 AWG	1 - #8 AWG	3/4"	15 KVA TXMR SEC
125	55	1	3 - #1 AWG	1 - #1 AWG	1 - #6 AWG	1-1/2"	30 KVA TXMR SEC
175	56	1	3 - #2/0 AWG	1 - #2/0 AWG	1 - #4 AWG	2"	45 KVA TXMR SEC
225	57	1	3 - #4/0 AWG	1 - #4/0 AWG	1 - #2 AWG	2-1/2"	75 KVA TXMR SEC
400	58	1	3 - 600 KCMIL	1 - 600 KCMIL	1 - #1/0 AWG	3-1/2"	112.5 KVA TXMR SEC
600	59	2	3 - 350 KCMIL	1 - 350 KCMIL	1 - #2/0 AWG	2-1/2"	150 KVA TXMR SEC
800	60	2	3 - 600 KCMIL	1 - 600 KCMIL	1 - #3/0 AWG	4"	225 KVA TXMR SEC
1200	61	3	3 - 600 KCMIL	1 - 600 KCMIL	1 - 250 KCMIL	4"	300 KVA TXMR SEC
1600	62	4	3 - 600 KCMIL	1 - 600 KCMIL	1 - 400 KCMIL	4"	500 KVA TXMR SEC
30	63	1	3 - #10 AWG	-	1 - #10 AWG	3/4"	ELEVATOR FEEDERS
40	64	1	3 - #8 AWG	-	1 - #8 AWG	3/4"	
50	65	1	3 - #6 AWG	-	1 - #6 AWG	3/4"	
70	66	1	3 - #4 AWG	-	1 - #4 AWG	1"	
90	67	1	3 - #2 AWG	-	1 - #2 AWG	1-1/4"	
110	68	1	3 - #1 AWG	-	1 - #1 AWG	1-1/2"	
150	69	1	3 - #1/0 AWG	-	1 - #1/0 AWG	1-1/2"	
175	70	1	3 - #2/0 AWG	-	1 - #2/0 AWG	2"	
200	71	1	3 - #3/0 AWG	-	1 - #3/0 AWG	2"	
225	72	1	3 - #4/0 AWG	-	1 - #4/0 AWG	2"	
250	73	1	3 - 250 KCMIL	-	1 - 250 KCMIL	2-1/2"	
300	74	1	3 - 350 KCMIL	-	1 - 350 KCMIL	3"	
350	75	1	3 - 500 KCMIL	-	1 - 500 KCMIL	3"	
400	76	1	3 - 600 KCMIL	-	1 - 600 KCMIL	3-1/2"	

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STATE OF OHIO
STANLEY J. MUSNIK
E-51375
REGISTERED PROFESSIONAL ENGINEER
04-10-2026

TROY AQUATIC PARK MAINTENANCE IMPROVEMENTS

CITY OF TROY RECREATION
460 WEST STAUNTON DRIVE TROY, OHIO 45373

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NO.	DATE	ISSUED / REVISION
	04/10/26	BID SET

PROJECT NO. **25306.00**

DRAWING TITLE:
ONE-LINE SCHEDULES

KORDA
KORDA, NEMETH ENGINEERING
WWW.KORDA.COM
DRAWN BY: Garrett Strauss
DESIGNED BY: Heath Jeffries
CHECKED BY: Stan Kmonk
PROJECT NUMBER: 2026-0204

E604

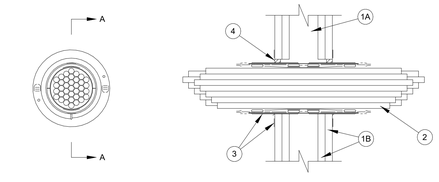
DRAWN BY: Garrett Strauss CHECKED BY: Stan Kmonk
4/10/2026 11:23:46 AM Autodesk Docs://25306.00_City of Troy Aquatic Park Improvements & Maintenance/R24-26020M City of Troy Aquatic Park - ELEC.rvt

DRAWN BY: Garrett Strauss CHECKED BY: Stan Kmonk

System No. W-L-3334

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings - 1, 2, 3 and 4 Hr (See Item 1)	F Ratings - 1, 2, 3 and 4 Hr (See Item 1)
T Ratings - 0, 1, 1-3/4, 2, 3 and 4 Hr (See Items 2 and 3)	FT Ratings - 0, 1, 1-3/4, 2, 3 and 4 Hr (See Items 2 and 3)
L Rating At Ambient - Less Than 1 CFM (See Item 2)	FH Ratings - 1, 2, 3 and 4 Hr (See Item 1)
L Ratings At 400 F - 1 and Less Than 1 CFM (See Item 2)	FTH Ratings - 0, 1, 1-3/4, 2, 3 and 4 Hr (See Items 2 and 3)
	L Rating At Ambient - Less Than 1 CFM (See Item 2)
	L Ratings At 400 F - 1 and Less Than 1 CFM (See Item 2)



SECTION A-A

1. Wall Assembly — The 1, 2, 3 or 4 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described within the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall incorporate the following construction features:
   A. Studs — Wall framing shall consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced max 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC for 1 and 2 hr wall assemblies. Steel Studs to be 3-5/8 in. (92 mm) for 3 and 4 hr wall assemblies.
   B. Gypsum Board* — Nom 5/8 in. (16 mm) thick gypsum board as specified in the individual Wall and Partition Design. Opening in gypsum board to be max 2-1/2 in. (64 mm) diam for 2" device and max 4-1/2 in. (114 mm) diam for 4" device.
   The hourly F and FH Ratings of the firestop system are dependent upon the hourly rating of the wall in which it is installed.
2. Cables — Within the loading area for each firestop device, the cables may represent a 0 to 100 percent visual fill. Cables to be tightly bundled within the device and rigidly supported on both sides of wall assembly. Any combination of the following types of cables may be used:
   A. Max 100 pair No. 24 AWG (or smaller) copper conductor telecommunication cable with polyvinyl chloride (PVC) jacketing and insulation.
   B. Max 7/C No. 12 AWG copper conductor control cable with PVC or XLPE jacket and insulation.
   C. Max 4/0 AWG Type RHH ground cable.
   D. Max 4 pr No. 22 AWG Cat 5 or Cat 6 computer cables.
   E. Max RG 6/U coaxial cable with fluorinated ethylene insulation and jacketing.
   F. Fiber optic cable with polyvinyl chloride (PVC) or polyethylene (PE) jacket and insulation having a max diam of 1/2 in. (13 mm).
   G. Max 20/C No. 22 AWG shielded printer cable with PVC jacket.
   H. Through-Penetrating Product* - Two copper conductors No. 18 AWG (or smaller) Power or Non Power Limited Fire Alarm Cable with or without a jacket under a metal armor.
   AFC CABLE SYSTEMS INC
   I. Max. 1/4 in. (6 mm) diameter S-Video Cable consisting of 2 max 24 AWG 75 ohm coax or twisted pair cable with PE insulation and PVC jacket .
   J. Max 3/C No 12 AWG MC Cable.
   K. Through Penetrating Product* — Any cables, Armored Cable+ or Metal Clad Cable+ currently Classified under the Through Penetrating Product category. See Through Penetrating Product (XHLY) category in the Fire Resistance Directory for names of manufacturers.

For opening with cables, when the hourly rating of the wall assembly is 1 hr, the T, FT and FTH Ratings are 0 hr. For opening with cables, when the hourly rating of the wall assembly is 2 hr, the T, FT and FTH Ratings are 1-3/4 hr except that, when Item 2C, 2G, 2I, 2J or 2K is used, the T, FT and FTH Ratings are 1 hr for 2C, 2 OR 2I and the T, FT and FTH Ratings are 1/2 hr for 2J or 2 K (see Item 3 also). When the hourly rating of the wall assembly is 3 or 4 hr, the T, FT and FTH Ratings are 2 hr. For wall assemblies with a 3 or 4 hr rating, Items 2G and 2I are not to be used.

L Ratings apply only when device flanges and CP 606 or FS-One Sealant are used. See Table below for L Ratings.

Max Cable Fill	Cable Type	L Rating, CFM/Sq Ft		L Rating, CFM	
		Ambient	400°F	Ambient	400°F
0%	-	Less Than 1	Less Than 1	Less Than 1	Less Than 1
100%	Item 2D only	5	1	Less Than 1	Less Than 1
100%	Any cables (Item 2) in any combination	9	10	Less Than 1	1

3. Firestop Device* — Firestop device consists of a corrugated steel tube with an inner plastic housing, intumescent material rings and twisted inner fabric smoke seal. Firestop device to be installed in accordance with the accompanying installation instructions. As an option, the inner fabric seal may remain open except that, to attain the L Rating, the inner fabric seal shall be twisted to completely close off the opening within device. Device slid into wall such that ends project an equal distance from the approximate centerline of the wall assembly. The annular space between the device and the periphery of the opening shall be min 0 in. (point contact). Device provided with flanges that are spun clockwise onto device threads, butting tightly to both sides of wall. Device flanges are optional. When the device flanges are not used, the T, FT and FTH Ratings for the firestop system are 0 hr. For blank opening (no cables), the T, FT and FTH Ratings for the firestop system equal the F and FH Ratings only when the device flanges are used.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 653 2" Speed Sleeve and CP 653 4" Speed Sleeve
4. Fill, Void or Cavity Material* - Sealant — Min 1/2 in. (13 mm) thickness of fill material applied within the annulus between firestop device and wall, flush with both surfaces of wall, and an additional 1/4 in. (6 mm) bead applied around periphery of device. When device flanges are used, gypsum drywall compound may be used in place of the fill material.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE or CP 606 Sealant

*Bearing the UL Classification Mark

Hilti Firestop Systems

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1 DETAIL
UL LISTED THROUGH WALL PENETRATION

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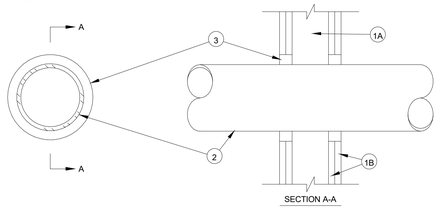
System No. W-L-1054

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

F Ratings - 1 and 2 Hr (See Items 1 and 3)
T Rating - 0 Hr
L Rating At Ambient - Less Than 1 CFM/Sq Ft
L Rating At 400 F - 4 CFM/Sq Ft



SECTION A-A

1. Wall Assembly -- The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs -- Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. wider and 4 to 6 in. higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. clearance is present between the penetrating item and the framing on all four sides.
   B. Gypsum Board* -- 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. for steel stud walls. Max diam of opening is 14-1/2 in. for wood stud walls. The F Rating of the firestop system is equal to the fire rating of the wall assembly.
2. Through-Penetrants -- One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. to max 2-1/4 in. Pipe may be installed with continuous point contact. Pipe, conduit or tubing may be installed at an angle not greater than 45 degrees from perpendicular. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe -- Nom 30 in diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe -- Nom 30 in. diam (or smaller) cast or ductile iron pipe.
   C. Conduit -- Nom 4 in diam (or smaller) steel electrical metallic tubing or 6 in. diam steel conduit.
   D. Copper Tubing -- Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.
   E. Copper Pipe -- Nom 6 in. diam (or smaller) regular (or heavier) copper pipe.
3. Fill, Void or Cavity Material* -- Sealant -- Min 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point or continuous contact locations between pipe and wall, a min 1/2 in. diam bead of fill material shall be applied at the pipe wall interface on both surfaces of wall .

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- FS-One Sealant
*Bearing the UL Classification Mark

Hilti Firestop Systems

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2 DETAIL
UL LISTED THROUGH WALL PENETRATION

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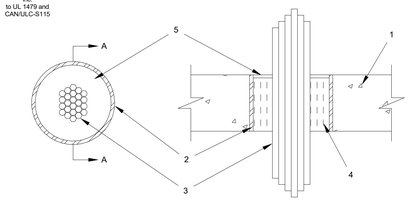
System No. C-AJ-3180

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

F Rating - 3 Hr
T Rating = 0 Hr



SECTION A-A

1. Floor or Wall Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600 2400 kg/m3) concrete floor or min 4-3/4 in. (121 mm) thick reinforced lightweight or normal weight concrete wall. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 6 in.(152 mm).
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Steel Sleeve — (Optional) — Nom 6 in. (152 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe cast or grouted into floor or wall assembly, flush with floor or wall surfaces.
3. Cables — Aggregate cross-sectional area of cables in opening to be max 45 percent of the aggregate cross-sectional area of the opening. Cables to be rigidly supported on both sides of floor or wall assembly. Any combination of the following types and sizes of metallic conductor or fiber optic cable may be used:
   A. Max 500 kcmil single copper connector power cable with thermoplastic insulation and polyvinyl chloride (PVC) j Jacket.
   B. Max 300 pair No. 24 AWG copper conductor telecommunication cables with polyvinyl chloride (PVC) insulation and jacket material.
   C. Max 7/C copper conductor No. 12 AWG multiconductor power and control cables with polyvinyl chloride (PVC) or cross-linked polyethylene (XLPE) insulation and PVC jacket.
   D. Multiple fiber optical communication cables jacketed with PVC and having a max outside diam of 1/2 in. (13 mm).
   E. Max 3/C copper conductor No. 12 AWG with bare aluminum ground, polyvinyl chloride (PVC) insulated steel, Metal-clad cable.
   F. Max 3/C with ground 2/0 AWG copper conductor SER cable with cross-linked polyethylene (XLPE) insulation and polyvinyl chloride (PVC) jacket.
   G. RG/U coaxial cable with polyethylene (PE) insulation and polyvinyl chloride (PVC) jacket having a max outside diameter of ½ in. (13 mm)
   H. Fire Resistive Cables* - Max 1-1/4 in. (32 mm) diam single conductor or multi conductor Type MI cable. A min 1/8 in. (3 mm) separation shall be maintained between MI cables and any other types of cable.
4. Packing Material — Min 4-1/4 in. (108 mm) thickness of min 4 pcf (64 kg/m3) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor to accommodate the required thickness of fill material.
5. Fill, Void or Cavity Material* — Sealant — Min 1/4 in. (6.4 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant.
*Bearing the UL Classification Mark

Hilti Firestop Systems

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3 DETAIL
UL LISTED THROUGH WALL PENETRATION

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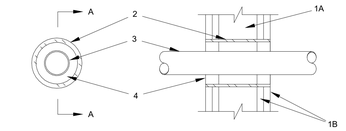
System No. W-L-2075

Classified by Underwriters Laboratories, Inc. to UL 1479

F Ratings - 1 & 2 Hr (See Item 4)
T Ratings - 0 and 2 Hr (see Item 4)
L Rating At Ambient - Less Than 1 CFM/Sq Ft
L Rating At 400 F - 4 CFM/Sq Ft



SECTION A-A

1. Floor or Wall Assembly -- The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
A. Studs -- Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.
B. Gypsum Board* -- Nom 5/8 in. thick gypsum wallboard, as specified in the individual Wall and Partition Design. Max diam of opening is 4 in.
2. Metallic Sleeve -- (Optional) -- Nom 4 in. diam (or smaller) Schedule 40 (or thinner) steel pipe cast into wall assembly with joint compound and installed flush with wall surfaces.
3. Electrical Nonmetallic Tubing+ -- Nom 2 in. diam (or smaller) corrugated wall electrical nonmetallic tubing (ENT) constructed of polyvinyl chloride (PVC). Tubing to be rigidly supported on both sides of wall assembly. A nom annular space of 3/4 in. is required within the firestop system.
See Electrical Nonmetallic Tubing (FKHU) category in the Electrical Construction Materials Directory for names of manufacturers.
4. Fill, Void or Cavity Material* -- Sealant -- Installed symmetrically on both sides of the wall. The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed. Fill material applied within the annulus, flush with each end of the steel sleeve at the thickness shown in the table below:

F Rating Hr	T Rating Hr	Fill Mtl Depth In.
1	0	5/8
2	2	1-1/4

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- FS-One Sealant
+Bearing the UL Listing Mark
*Bearing the UL Classification Marking

Hilti Firestop Systems

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4 DETAIL
UL LISTED THROUGH WALL PENETRATION

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STATE OF OHIO
STANLEY J. KMONK
E-51379
REGISTERED PROFESSIONAL ENGINEER
04-10-2026

TROY AQUATIC PARK MAINTENANCE IMPROVEMENTS

CITY OF TROY RECREATION
460 WEST STAUNTON DRIVE TROY, OHIO 45373

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NO.	DATE	ISSUED / REVISION
	04/10/26	BID SET

PROJECT NO. **25306.00**

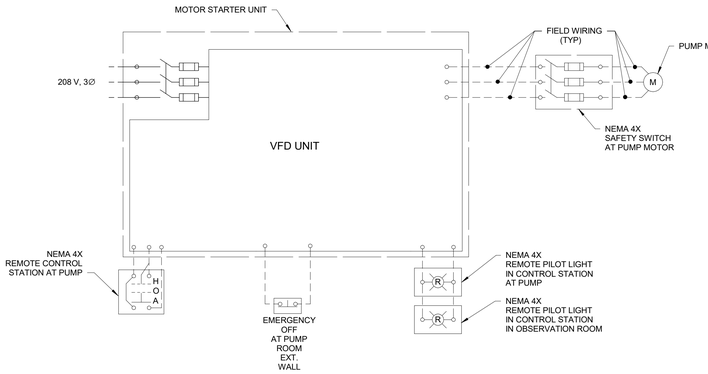
DRAWING TITLE:
ELECTRICAL DETAILS

KORDA
KORDA - NEMETH ENGINEERING
WWW.KORDA.COM

DRAWN BY:	Garrett Strauss
DESIGNED BY:	Heath Jeffries
CHECKED BY:	Stan Kmonk
PROJECT NUMBER:	2026-0204

E701

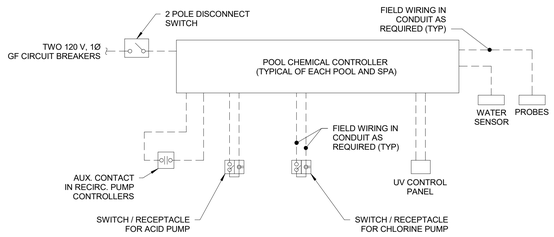
4/10/2026 11:23:51 AM Autodesk Docs://25306.00_City of Troy Aquatic Park Improvements & Maintenance/R24-260204 City of Troy Aquatic Park - ELEC.rvt



1 DETAIL

WATER SLIDE PUMP PP5

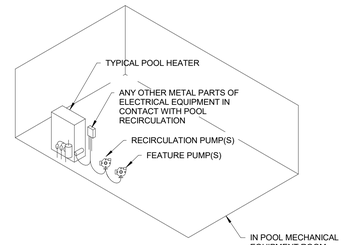
N.T.S.



2 FLOOR PLAN

POOL CHEMICAL CONTROLLER (TYPICAL)
REFER TO WIRING DIAGRAMS FOR QUANTITY OF INTERLOCKS

SCALE: 12" = 1'-0"
0' 1' 2' 4' 8'



3 DETAIL

POOL BONDING

N.T.S.

NOTES:

1. ALL BONDING PER NEC 680.
2. BOND ALL METAL PARTS OF ELECTRICAL EQUIPMENT IN CONTACT WITH POOL RECIRCULATION.

4 FLOOR PLAN

POOL FILTRATION PUMP

SCALE: 12" = 1'-0"
0' 1' 2' 4' 8'

DRAWN BY: Garrett Strauss CHECKED BY: Stan Kmonk

4/10/2026 11:23:31 AM Autodesk Docs://25306.00_City of Troy Aquatic Park Improvements & Maintenance/R24-260204 City of Troy Aquatic Park - ELEC.rvt

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STATE OF OHIO
STANLEY J. KMONK
E-81379
REGISTERED PROFESSIONAL ENGINEER
04-10-2026

TROY AQUATIC PARK MAINTENANCE IMPROVEMENTS

CITY OF TROY RECREATION

460 WEST STAUNTON DRIVE TROY, OHIO 45373

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NO.	DATE	ISSUED / REVISION
	04/10/26	BID SET

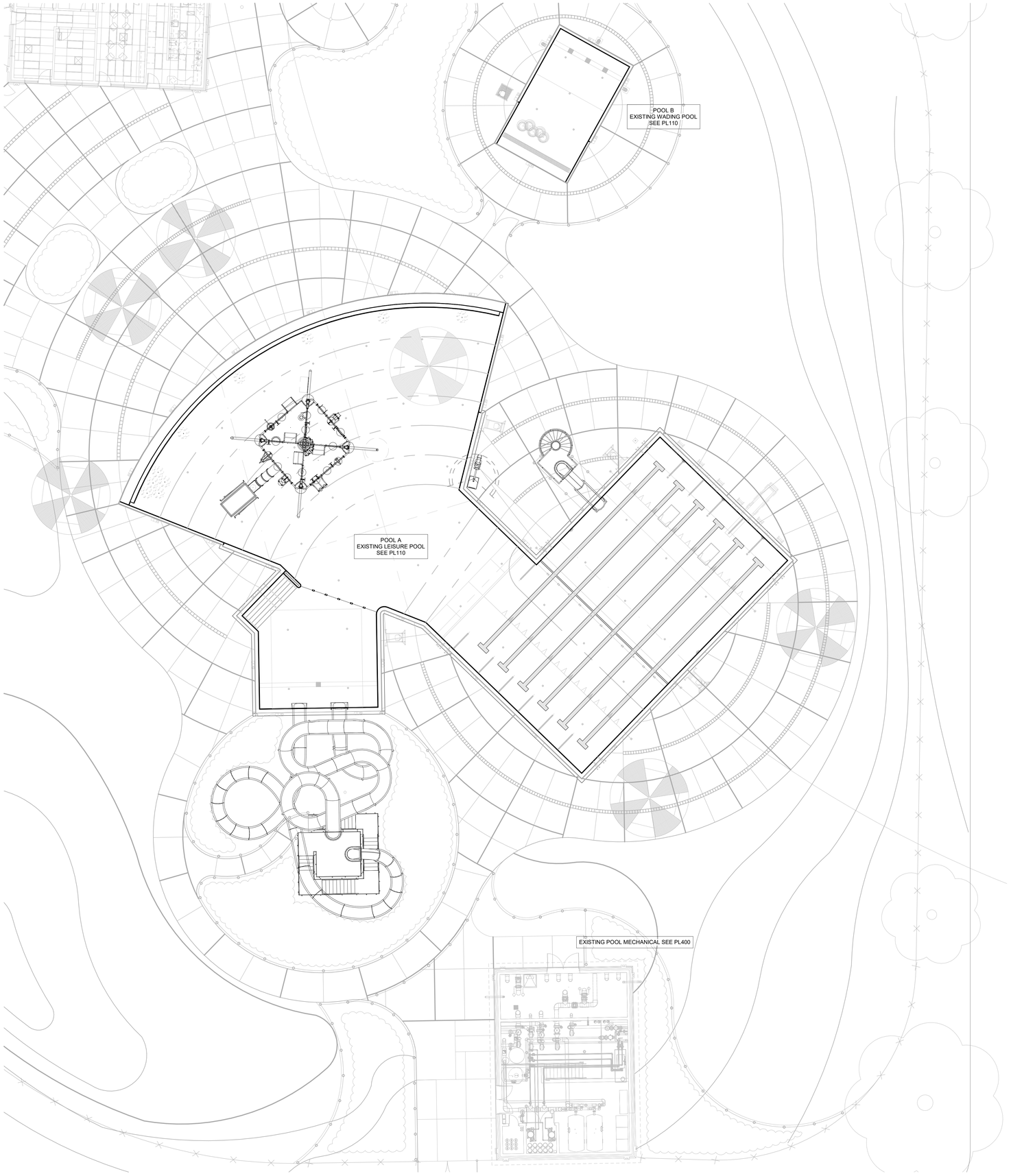
PROJECT NO. **25306.00**

DRAWING TITLE:
ELECTRICAL DETAILS

KORDA
KORDA: NEMETH ENGINEERING
WWW.KORDA.COM

DRAWN BY:	Garrett Strauss
DESIGNED BY:	Heath Jeffries
CHECKED BY:	Stan Kmonk
PROJECT NUMBER	2026-0204

E702



1 PL100 OVERALL AQUATICS PLAN VIEW
3/32" = 1'-0"

SCHEDULE - SHEET LIST

SHEET NO.	SHEET NAME
PL100	OVERALL AQUATIC PLAN
D100	DEMOLITION PLAN
D101	DEMOLITION DETAILS
PL101	GENERAL DETAILS AND SCHEDULES
PL102	GENERAL DETAILS
PL110	POOL DIMENSION PLANS
PL200	STRUCTURAL NOTES, PLAN(S) AND SCHEDULE
PL210	STRUCTURAL DETAILS
PL400	MECHANICAL EQUIPMENT PLAN
PL401	MECHANICAL DETAILS

GENERAL NOTES:
1. LOCATE LIFEGUARD CHAIRS AS REQUIRED PER STATE AND LOCAL CODES AND PER OWNER'S SAFETY CONSULTANT.
2. SCHEDULE QUANTITIES ARE SHOWN FOR VALUE ENGINEERING PURPOSES. IT IS THE INSTALLING CONTRACTORS RESPONSIBILITY TO VERIFY QUANTITIES REQUIRED.
3. CONTRACTOR SHALL CONTACT ENGINEER FOR ELECTRONIC DRAWING FILES PRIOR TO COMMENCING POOL STAKING WORK.
4. ENGINEER WILL PROVIDE ELECTRONIC PLAN VIEW OF ALL POOLS IN AUTOCAD DRAWING FORMAT FOR CONTRACTOR'S USE TO LOCATE STRUCTURES AND RELATED POOL DECK EQUIPMENT.
5. REFER TO PL100 SERIES DRAWINGS FOR ALL POOL PLAN INFORMATION, RELATED EQUIPMENT, AND DETAILS.
6. REFER TO PL200 SERIES DRAWINGS FOR ALL POOL STRUCTURAL PLANS, RELATED INFORMATION, AND DETAILS.
7. REFER TO PL400 SERIES DRAWINGS FOR ALL MECHANICAL EQUIPMENT INFORMATION AND RELATED DETAILS.

CODES, STANDARDS AND REGULATIONS:
CONTRACTOR SHALL BE FAMILIAR WITH ALL CODES AND STANDARDS LISTED BELOW AND ALERT THE ARCHITECT/ENGINEER TO CONFLICTS IN THE DRAWINGS

CODE JURISDICTION
TROY, OHIO, MIAMI COUNTY

HEALTH & SAFETY CODE:
STATE HEALTH CODE: OHIO 3701-31 SWIMMING POOLS
OHIO REVISED CODE: CHAPTER 3749 SWIMMING POOLS

ACCESSIBILITY STANDARDS AND REGULATIONS:

UNITED STATES:
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

BATHER CAPACITY

EXISTING BATHER CAPACITY TO REMAIN UNCHANGED

TAG LEGEND

PIPE TAG — P1-20A
- LINE TYPE IDENTIFIER
- SYSTEM IDENTIFIER
- PIPE IDENTIFIER
- POOL IDENTIFIER

POOL EQUIPMENT TAG — A01
- POOL IDENTIFIER
- EQUIPMENT IDENTIFIER

MECHANICAL EQUIPMENT TAG — P1A
- EQUIPMENT IDENTIFIER
- SYSTEM IDENTIFIER
- POOL IDENTIFIER

DIMENSION TAG — 100
- POINT LOCATION
- POINT IDENTIFIER

WATER FEATURE TAG — F01
- FEATURE DESIGNATOR
- EQUIPMENT IDENTIFIER

ELEVATION TAG
- ELEVATION — 100.00 REFERENCE
- LOCATION

CUSTOM RAILGOODS TAG — A01
- POOL IDENTIFIER
- RAILGOODS IDENTIFIER

POOL STRUCTURAL TAG — AH1
- POOL IDENTIFIER
- WALL TYPE IDENTIFIER

POOL FIXTURE TAG — A-PF1
- POOL IDENTIFIER
- POOL FIXTURE DESIGNATOR
- EQUIPMENT IDENTIFIER

REVISION TAG — 1
- REVISION NUMBER

POOL FINISH TAG — A - 01
- FINISH TYPE ID — QA: WATERLINE
- POOL IDENTIFIER — Q1: TILE
- FINISH COLOR ID
- FINISH DESCRIPTION

DIMENSIONAL UNITS
- IMPERIAL UNITS — 7/8"
- METRIC UNITS (mm) — [25]

POOL ACCESSIBILITY TAG — ADA-P-SE
- P = PRIMARY
- S = SECONDARY
- MEANS OF ACCESS

POOL FLOOR ELEVATION RELATIVE TO (SWL)
- ELEVATION — 5'-0" WD

EQUIPMENT IDENTIFIER KEY

AC	-	AIR COMPRESSOR	FP	-	FLOW METER POWER SUPPLY
AF	-	AUTOFILL	H	-	HEATER
AOP	-	ADVANCED OXIDATION PROCESS	HX	-	HEAT EXCHANGER
AP	-	pH CONTROL PUMP	P	-	PUMP
AS	-	pH CONTROL STORAGE	PV	-	PNEUMATIC MAIN DRAIN VALVE
BP	-	BOOSTER PUMP	S	-	STRAINER
C	-	CHEMICAL CONTROLLER	SC	-	CONTAINMENT PALLETE
CP	-	CHLORINE FEED PUMP	SV	-	SURGE TANK FAN
CS	-	CHLORINE STORAGE	UV	-	ULTRA-VIOLET DISINFECTION
EV	-	ELECTRONIC MAIN DRAIN VALVE	V	-	VARIABLE FREQUENCY DRIVE
F	-	FILTER	WC	-	WATER CHILLER
FM	-	FLOW METER			

ABBREVIATIONS

AHJ	- AUTHORITY HAVING JURISDICTION	P&ID	- PIPING & INSTRUMENTATION DIAGRAM
BO	- BOTTOM OF	PL	- POOL LIFT
CJ	- CONTROL JOINT	PS	- POOL STAIRS
DIA	- DIAMETER	SCH	- SCHEDULE
EJ	- EXPANSION JOINT	SE	- SLOPED ENTRY
EW	- EACH WAY	SS	- STAINLESS STEEL
FFE	- FINISH FLOOR ELEVATION	SWL	- STATIC WATER LEVEL
ID	- INSIDE DIAMETER	TO	- TOP OF
MAX	- MAXIMUM	TS	- TRANSFER SYSTEM
MIN	- MINIMUM	TUBC	- TRUE UNION CHECK VALVE
NC	- NORMALLY CLOSED	TUBV	- TRUE UNION BALL VALVE
NO	- NORMALLY OPEN	TW	- TRANSFER WALL
NPS	- NOMINAL PIPE SIZE	TYP	- TYPICAL
OC	- ON CENTER	WD	- WATER DEPTH
OD	- OUTSIDE DIAMETER		
OWE	- OPERATING WATER ELEVATION		

SCHEDULE - SAFETY & MAINTENANCE EQUIPMENT EXISTING (PROVIDED BY OWNER)

QTY	PRODUCT NAME	MANUFACTURER	NOTES
1	25 PERSON AQUATIC FIRST AID KIT	WATER SAFETY PRODUCTS	25 PERSON OSHA FIRST AID KIT TO INCLUDE BIOHAZARD COMPLIANCE RESPONSE AND CPR MICROMASK WITH NITRILE GLOVES
1	AUTOMATIC VACUUM CLEANING SYSTEM	MAYTRONICS	DOLPHIN WAVE 200XL AUTOMATIC CLEANER, RADIO REMOTE CONTROL, CADDY, MULTI-LAYER FILTER WITH TOP ACCESS, SIX (6) ACTIVE BRUSHES, SUCTION RATE: 9,000 GPH, 140 FT CORD, 3 YEAR WARRANTY
1	DEFIBRILLATOR	WATER SAFETY PRODUCTS	ZOLL AED PLUS DEFIBRILLATOR COMPLETE AED PACKAGE WITH CPR-D PADZ ELECTRODES, CPR HELP TECHNOLOGY WITH REAL-TIME DEPTH AND RATE CPR FEEDBACK, LITHIUM 123 BATTERIES WITH 5 YEAR SHELF LIFE, CARRYING CASE AND AED PRESCRIPTION
2	LIFE BUOY	WATER SAFETY PRODUCTS	30" DIA, MADE OF UNICELL SOFT FOAM WITH HARD SHELL COVERING. INCLUDE STAINLESS STEEL MOUNTING BRACKETS AND STAINLESS STEEL ANCHORS AND BOLTS. MOUNT UNIT ON WALL IN COORDINATION WITH OWNER
2	LIFE HOOK & RESCUE POLE	RECREONICS	FIBERGLASS POLE, WITH DOUBLE LIFE HOOK. PROVIDE 16-FOOT NON-TELESCOPING SECTIONS WITH & RUBBER END CAP. INCLUDE STAINLESS STEEL MOUNTING BRACKETS AND STAINLESS STEEL ANCHORS AND BOLTS. MOUNT UNIT ON WALL IN COORDINATION WITH OWNER
1	MANUAL VACUUM CLEANING SYSTEM	HAMMERHEAD	RESORT-21, (RESORT-30): 21"(30") VACUUM HEAD WITH (2) LARGE CAPACITY BAGS, 60 FOOT CORD, STAINLESS STEEL POLE SWIVEL MOUNT AND WELDED ALUMINUM CADDY W/ 20" WHEELS. PROVIDE WITH 12V DEEP CYCLE MARINE BATTERY, BATTERY CHARGER, AND 1 1/8" STANDARD POOL POLE.
8	RESCUE TUBE	WATER SAFETY PRODUCTS	50" LONG x 6" WIDE x 4" THICK. NO CLIPS, NO RINGS. 2" WIDE ADJUSTABLE SHOULDER STRAP CONNECTED TO TUBE BY 1" STRAPPING. STRAPPING EXTENDS COMPLETELY THROUGH LENGTH OF TUBE.
1	SPINEBOARD W/ HEAD IMMOBILIZER	WATER SAFETY PRODUCTS	X-RAY TRANSLUCENT BACKBOARD WITH HEAD IMMOBILIZER AND BODY STRAPS. INCLUDE STAINLESS STEEL MOUNTING BRACKETS AND STAINLESS STEEL ANCHORS AND BOLTS. MOUNT UNIT ON WALL IN COORDINATION WITH OWNER
2	THROW LINE	WATER SAFETY PRODUCTS	60' MARINE POLYPRO LINE, WITH 3" x 5" LEMON FLOAT
1	WATER TEST KIT	TAYLOR "SERVICE COMPLETE"	FAS DPD CHLORINE KIT

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TROY AQUATIC PARK MAINTENANCE IMPROVEMENTS

CITY OF TROY RECREATION

460 WEST STAUNTON DRIVE TROY, OHIO 45373

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1	04/10/2026	BID SET

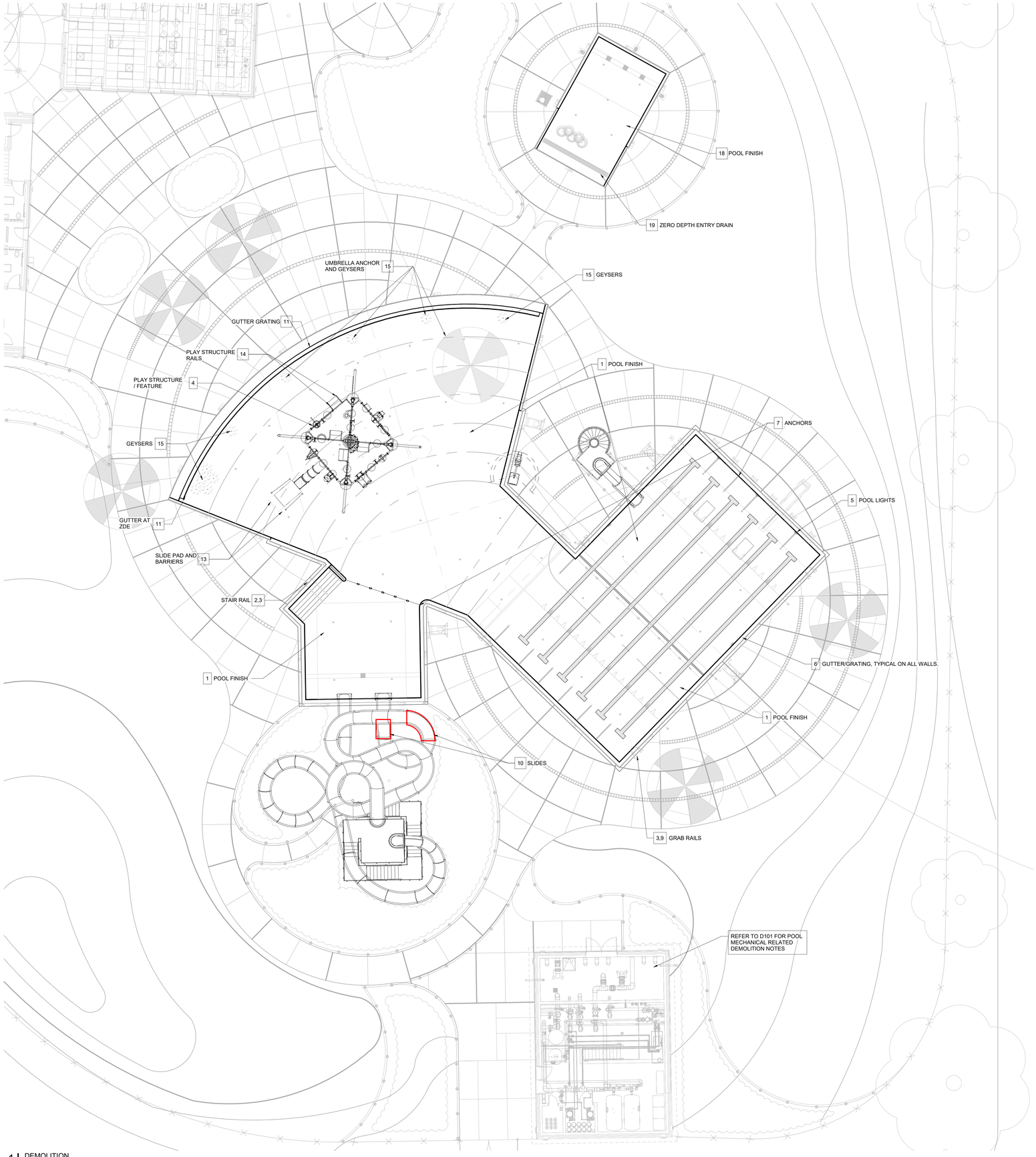
PROJECT NO. **25294**

DRAWING TITLE:
OVERALL AQUATIC PLAN

PL100

DRAWN BY: T.ED CHECKED BY: AWJ

4/13/2026 10:40:09 Autodesk Docs://25306.00_City of Troy Aquatic Park Improvements & Maintenance/25294 - City of Troy OH R24.rvt



1 D100 DEMOLITION PLAN VIEW
3/32" = 1'-0"

GENERAL DEMOLITION NOTES:

1. ALL CONDITIONS SHOWN ON THIS DRAWING ARE EXISTING. OWNER AND ARCHITECT ASSUME NO RESPONSIBILITY FOR ACCURACY OR COMPLETENESS OF INFORMATION SHOWN. ORIGINAL CONSTRUCTION DOCUMENTS FOR EXISTING FACILITY ARE ON FILE AT THE OWNER'S OFFICE FOR REVIEW. CONTRACTORS ARE RESPONSIBLE TO VISIT THE SITE AND REVIEW ALL DOCUMENTS PRIOR TO SUBMITTING THEIR BID TO COMPLETELY FAMILIARIZE THEMSELVES WITH ALL CONDITIONS.
2. DEMOLITION DRAWINGS ARE INTENDED TO BE SCHEMATIC IN NATURE, AND MAY NOT DESCRIBE ALL MISCELLANEOUS WORK NECESSARY TO COMPLETE THE DEMOLITION AND NEW WORK. CONTRACTOR SHALL INCLUDE THIS MISCELLANEOUS NECESSARY WORK IN BASE BID.
3. CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING POOL EQUIPMENT AS INDICATED IN DEMOLITION KEYNOTES AND PLAN. SEE DRAWING NOTES FOR EQUIPMENT THAT SHALL BE REUSED IN PLACE AND EQUIPMENT THAT SHALL BE RELOCATED AND REUSED.
4. CONTRACTOR TO VERIFY ASBESTOS TEST REQUIREMENTS AND CONDUCT ANY REQUIRED TESTING PRIOR TO CONSTRUCTION.
5. UNLESS NOTED OTHERWISE ON THE PLAN, CONTRACTOR SHALL DISPOSE OF ALL REMOVED EQUIPMENT AND MATERIALS IN A LEGAL MANNER OFF SITE. COPIES OF ALL MANIFESTS SHALL BE GIVEN TO THE OWNER SHOWING FINAL DISPOSAL LOCATION OF ALL MATERIALS.
6. CONTRACTOR SHALL MAINTAIN DUST CONTROL INSIDE AND OUTSIDE OF THE BUILDING AT ALL TIMES.
7. CONTRACTOR SHALL PROTECT ALL CATCH BASINS, SEWER INLETS, ETC., FROM DEBRIS AND SEDIMENTATION DURING DEMOLITION.
8. CONTRACTOR SHALL LIMIT DISRUPTION TO THE INDICATED WORK AREA, AND TAKE CARE TO PROTECT, AND NOT DISRUPT, THE SURROUNDING AREA.
9. CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND TERMINATING EXISTING ELECTRICAL POWER, WATER, AND GAS LINES WITH LOCAL UTILITIES.
10. REFER TO ALL OTHER DRAWINGS FOR FURTHER DETAIL ON NEW CONSTRUCTION REQUIREMENTS.

DEFINITIONS:

A. ***REMOVE***: REMOVE AND LEGALLY DISPOSE OF ITEMS EXCEPT THOSE INDICATED TO BE REINSTALLED, SALVAGED, OR TO REMAIN THE OWNER'S PROPERTY.
B. ***REMOVE AND SALVAGE***: ITEMS INDICATED TO BE REMOVED AND SALVAGED REMAIN THE OWNER'S PROPERTY. REMOVE, CLEAN, AND PACK OR CRATE ITEMS TO PROTECT AGAINST DAMAGE. IDENTIFY CONTENTS OF CONTAINERS AND DELIVER TO OWNER'S DESIGNATED STORAGE AREA.
C. ***REMOVE AND REINSTALL***: REMOVE ITEMS INDICATED; CLEAN, SERVICE, AND OTHERWISE PREPARE THEM FOR REUSE; STORE AND PROTECT AGAINST DAMAGE. REINSTALL ITEMS IN THE SAME LOCATIONS OR IN LOCATIONS INDICATED.
D. ***EXISTING TO REMAIN***: PROTECT CONSTRUCTION INDICATED TO REMAIN AGAINST DAMAGE AND SOILING DURING SELECTIVE DEMOLITION. WHEN PERMITTED BY THE OWNER OR ARCHITECT, ITEMS MAY BE REMOVED TO A SUITABLE, PROTECTED STORAGE LOCATION DURING SELECTIVE DEMOLITION AND THEN CLEANED AND REINSTALLED IN THEIR ORIGINAL LOCATIONS.
E. ***ABANDON:*** PERMANENTLY REMOVE FROM SERVICE AND MAINTAIN IN PLACE. FOR PIPING, ABANDONED PIPES SHALL BE BLOWN OUT, DISCONNECTED FROM OTHER PIPING AND DISCONNECTED FROM THE POOL WALL/TANK WALL. PIPING ENDS SHALL BE CAPPED ON BOTH ENDS. FOR PIPE PENETRATING FINISHED SURFACES, CUT BACK PIPE SUCH THAT CAPS ARE A MINIMUM OF 3" BELOW FINISHED SURFACE. COVER WITH NON-SHRINK, NON-METALLIC GROUT AND SPECIFIED FINISHES. ABANDONED PIPING SHALL BE IDENTIFIED IN RECORD DRAWINGS PROVIDED BY THE CONTRACTOR.

DEMOLITION KEYNOTES (POOL A)

1	REMOVE ALL EXISTING POOL FINISHES (FLOOR, STAIRS, AND ALL WALLS) INCLUDING CONTRASTING TILE AND LANE LINES/MARKERS. EXISTING COMPLIANT MINIMUM RADIUS REQUIREMENT TO BE MAINTAINED AT ALL WALL/FLOOR JOINTS DURING REMOVAL AND REINSTALLATION OF POOL FINISH. REMOVE TILE AND EPOXY DOWN TO BASE CONCRETE. SEE PHOTO 1&2/D101.
2	REMOVE AND REINSTALL HANDRAILS AT POOL STAIRS (QTY 4).
3	ALL ANCHORS FOR HANDRAILS AND LADDERS ARE EXISTING TO REMAIN.
4	REMOVE AND REINSTALL PLAY STRUCTURE AT ZERO DEPTH ENTRY AS NEEDED TO PROPERLY REMOVE AND REINSTALL POOL FINISH. ALL COMPONENTS OF THE PLAY STRUCTURE THAT ARE REMOVED SHALL BE STORED AND PROTECTED BY THE CONTRACTOR FOR REINSTALLATION.
5	REMOVE AND REINSTALL ALL UNDERWATER POOL LIGHT ASSEMBLIES (QTY 5) AS REQUIRED FOR REMOVAL AND INSTALLATION OF NEW POOL FINISH.
6	REMOVE EXISTING GUTTER GRATING. EXISTING CONCRETE GUTTER TO REMAIN. SEE PHOTO 1&2/D101.
7	EXISTING LANE LINE ANCHORS AND SAFETY ROPE ANCHORS TO REMAIN.
8	NOTE REMOVED
9	REMOVE AND REINSTALL ALL GRAB RAILS AT LAP POOL AREA (QTY 5).
10	REMOVE (2) EXISTING FLUME SECTIONS AT BODY SLIDE AS INDICATED AND REPLACE WITH NEW. REPLACED FLUME SECTIONS TO HAVE MATCHING FINISH TO REST OF SLIDE.
11	REMOVE EXISTING GUTTER GRATING AT ZERO DEPTH ENTRY AREA. REPLACE WITH NEW GUTTER GRATING PER DETAIL 2/PL101.
12	NOTE REMOVED
13	REMOVE EXISTING SLIDE EXIT PAD AND BARRIERS.
14	REMOVE EXISTING HANDRAILS AT PLAY STRUCTURE STAIRS (BOTH SIDES).
15	GEYSERS AND UMBRELLA ANCHOR IN ZERO DEPTH AREA ARE EXISTING TO REMAIN DURING FINISH REMOVAL & REPLACEMENT.
16	JOINT REPAIR WORK - SEE PL200 FOR ALL LOCATIONS: CUT AND REMOVE OR CHIP OUT CONCRETE OF POOL FLOOR AND WALL ON EACH SIDE OF EXPANSION JOINTS. CHIP OUT CONCRETE AT BASE OF WALL TO SALVAGE EXISTING PVC WATERSTOPS FOR NEW WELD REPAIR. VERIFY CONDITION OF FLOOR & WALL REINFORCING STEEL PRIOR TO REPAIR. REVIEW WITH ENGINEER FOR THE OPTION TO SALVAGE EXISTING FLOOR AND WALL STEEL IF POSSIBLE. REFER TO PL210 FOR NEW INSTALLATION DETAILS. CLEAN AND PREP SURFACE FOR POOL FINISHES.
17	GUTTER WALL REPAIR WORK - SEE PL200 FOR ALL LOCATIONS: REPAIR FRONT GUTTER WALL AS INDICATED IN PLAN ON PL200 AND KEYNOTE 1. CLEAN AND PREP SURFACE FOR POOL FINISHES.

DEMOLITION KEYNOTES (POOL B)

18	REMOVE ALL EXISTING POOL FINISHES (FLOOR AND ALL WALLS) INCLUDING CONTRASTING TILE AND DEPTH MARKERS. TILE ON TOP OF POOL WALL AT ZERO DEPTH AREA TO BE REMOVED AND REPLACED WITH NEW. REMOVE TILE AND EPOXY DOWN TO BASE CONCRETE. SEE PHOTO 5/D101.
19	ZERO DEPTH ENTRY DRAIN GRATING IS EXISTING TO REMAIN. SEE PHOTO 4/D101.

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PROJECT NO. **25294**

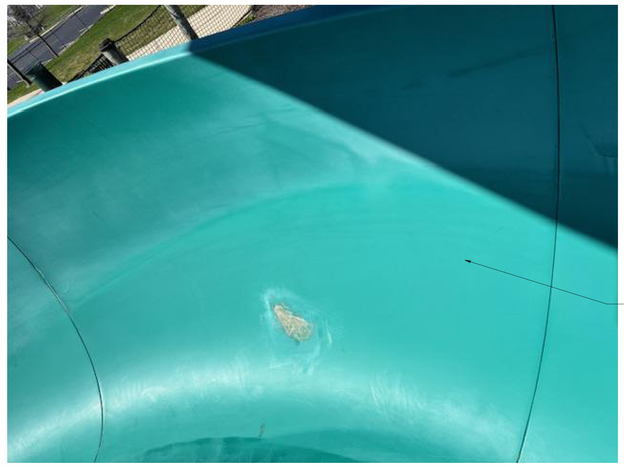
DRAWING TITLE:
DEMOLITION PLAN

D100

DRAWN BY: T.ED
CHECKED BY: AWJ

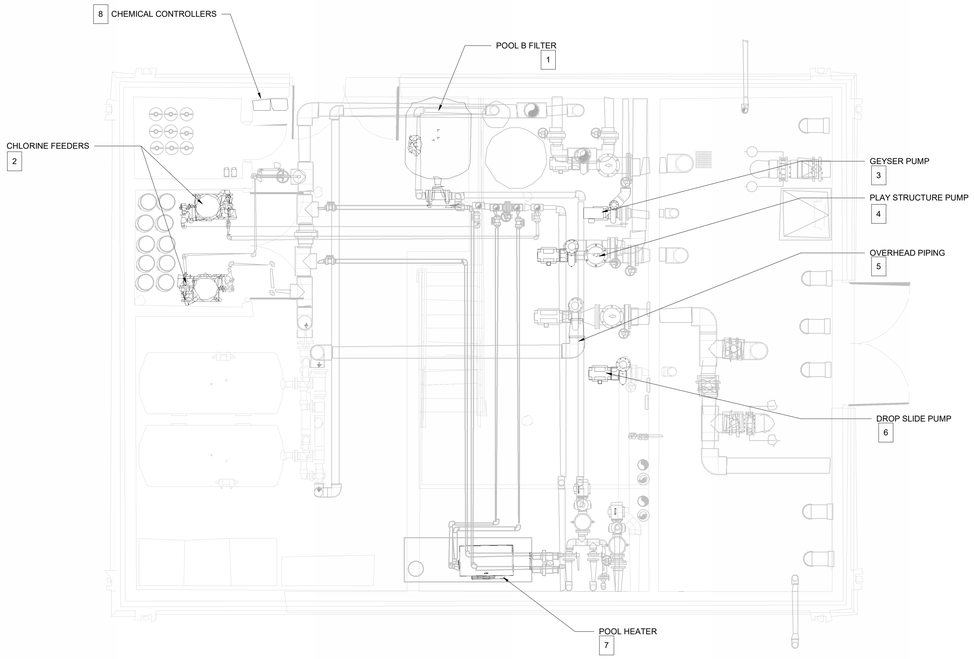
4/13/2026 10:40:03 Autodesk Docs://25306.00_City of Troy Aquatic Park Improvements & Maintenance/25294 - City of Troy OH.R24.rvt

5 D101 | EXISTING WADING POOL DETAIL VIEW
NOT TO SCALE



4 D101 | EXISTING SLIDE DETAIL VIEW
NOT TO SCALE

1 D101 | LEISURE POOL DEEP AREA DETAIL VIEW
NOT TO SCALE



6 D101 | POOL EQUIPMENT ROOM LAYOUT PLAN VIEW
1/4" = 1'-0"

POOL MECHANICAL DEMOLITION KEYNOTES

1	REMOVE EXISTING FILTER FOR POOL B (WADING POOL) AND ASSOCIATED FACE PIPING AS REQUIRED FOR REPLACEMENT.
2	REMOVE EXISTING CHLORINE FEEDERS FOR POOLS A AND B (LEISURE POOL AND WADING POOL). EXISTING PIPING TO BE PROTECTED AND RECONNECTED TO NEW FEEDERS FOLLOWING INSTALLATION.
3	REMOVE EXISTING GEYSER PUMP AND PUMP PAD. REMOVE PIPING AS REQUIRED FOR INSTALLATION OF NEW PUMP AND STRAINER ASSEMBLY.
4	REMOVE EXISTING PLAY STRUCTURE PUMP, PUMP PAD AND STRAINER ASSEMBLY. PROTECT EXISTING PIPING AND RECONNECT FOLLOWING INSTALLATION OF NEW PUMP AND STRAINER.
5	REMOVE EXISTING DAMAGED OVERHEAD PIPING AS INDICATED ON PL400.
6	REMOVE EXISTING DROP SLIDE PUMP AND PUMP PAD. REMOVE PIPING AS REQUIRED FOR INSTALLATION OF NEW PUMP AND PAD ASSEMBLY.
7	REMOVE EXISTING POOL HEATER AND ASSOCIATED VENTING DUCT. REMOVE POOL PIPING AS REQUIRED FOR INSTALLATION OF NEW HEATER.
8	REMOVE EXISTING CHEMICAL CONTROLLERS FOR POOLS A AND B

2 D101 | LEISURE POOL SWIMMING TARGETS DETAIL VIEW
NOT TO SCALE

3 D101 | EXISTING SLIDE DETAIL VIEW
NOT TO SCALE

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PROJECT NO. **25294**

DRAWING TITLE:
DEMOLITION DETAILS

D101

DRAWN BY: T.ED CHECKED BY: AWJ

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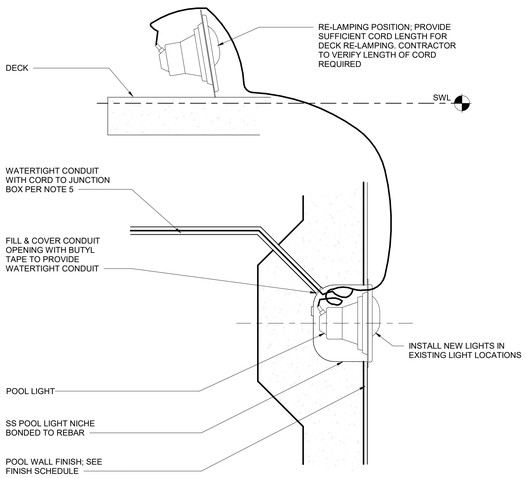
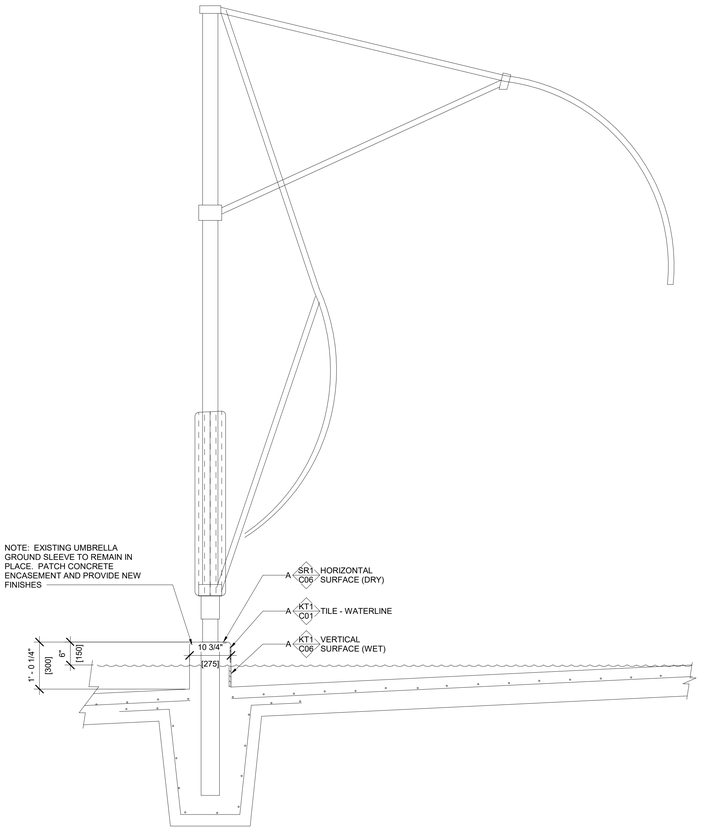
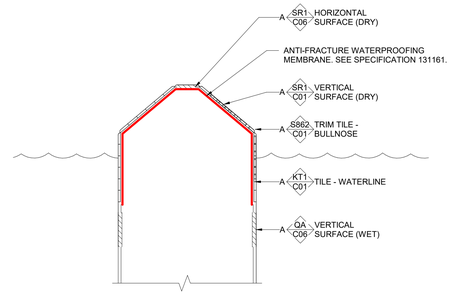


NOTES:
1. POOL LIGHTS AT LOCATIONS AS INDICATED ON PLAN BY THIS SYMBOL.
2. LIGHT FIXTURES WITH CORD AND CONDUIT ATTACHED ARE FURNISHED AS SPECIFIED BY THE POOL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. ALL OTHER ELECTRICAL MATERIALS (WATERTIGHT CONDUIT, JUNCTION BOXES, SWITCHES, ETC) ARE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR PER NEC CODE ARTICLE 680. POOL LIGHTS SHALL BE GFI PROTECTED PER NEC ARTICLE 680.

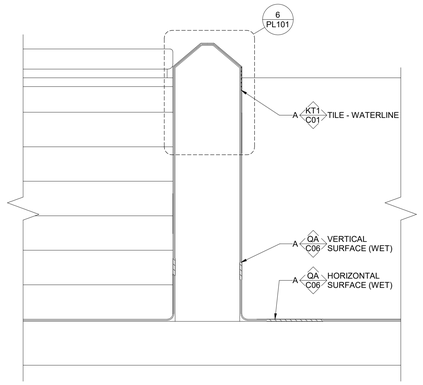
9 PL101 | FLUSH MOUNT POOL LIGHT DETAIL VIEW
1 1/2" = 1'-0"



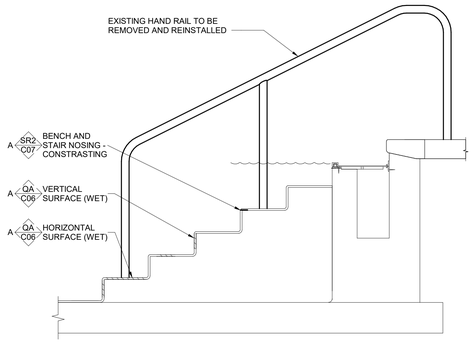
10 PL101 | UMBRELLA GROUND SLEEVE DETAIL VIEW
3/4" = 1'-0"



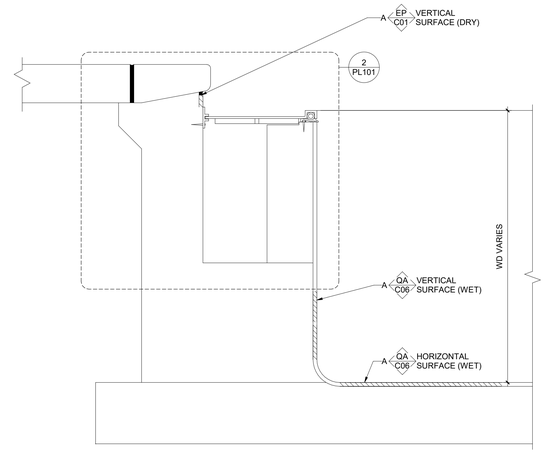
6 PL101 | COMMON WALL FINISH DETAIL VIEW
NOT TO SCALE



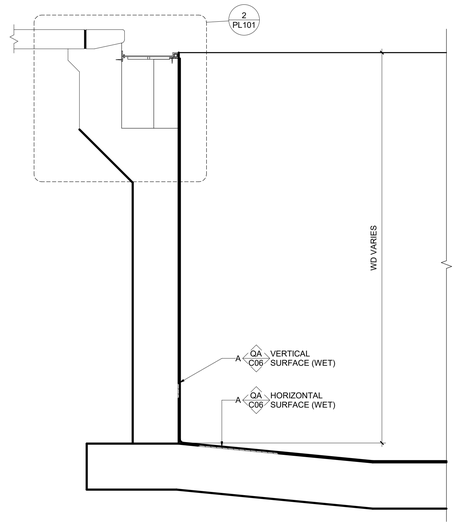
7 PL101 | COMMON WALL DETAIL VIEW
NOT TO SCALE



8 PL101 | POOL STAIRS DETAIL VIEW
NOT TO SCALE



4 PL101 | STANDARD GUTTER WALL DETAIL VIEW
NOT TO SCALE



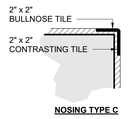
5 PL101 | DEEP END GUTTER WALL DETAIL VIEW
NOT TO SCALE

LEGEND - FINISHES & COLOR CODES - POOL A

AREA	FINISHES		COLORS		
	FINISH ID	FINISH	COLOR ID	COLOR	NOTES
BENCH AND STAIR NOSING - CONSTRASTING	SR2	2"x2" SLIP RESISTANT TILE	C07	CONTRASTING TO POOL FINISH	
CONTRASTING TILE BAND	SR1	1"x1" SLIP RESISTANT TILE	C07	CONTRASTING TO POOL FINISH	
DEPTH MARKERS - DECK	SR3	6"x6" SLIP RESISTANT TILE	C03	BLACK ON WHITE	
DEPTH MARKERS - NO DIVING	SR3	6"x6" SLIP RESISTANT TILE	C04	BLACK AND RED ON WHITE	
DEPTH MARKERS - WALL	CT1	6"x6" CERAMIC TILE	C03	BLACK ON WHITE	
HORIZONTAL SURFACE (DRY)	SR1	1"x1" SLIP RESISTANT TILE	C06	LIGHT COLOR	
HORIZONTAL SURFACE (WET)	QA	QUARTZ AGGREGATE	C06	LIGHT COLOR	COOL BLUE DIAMONDBRITE
LANE MARKERS - FLOOR	SR1	1"x1" SLIP RESISTANT TILE	C07	CONTRASTING TO POOL FINISH	
LANE MARKERS - WALL	SR1	1"x1" SLIP RESISTANT TILE	C07	CONTRASTING TO POOL FINISH	
TILE - WATERLINE	KT1	1"x1" KEYSTONE TILE	C01	AS SELECTED BY ARCHITECT	
TRIM TILE - BULLNOSE	S862	1"x1" S-862 BULLNOSE TRIM TILE	C01	AS SELECTED BY ARCHITECT	
VERTICAL SURFACE (DRY)	EP	EPOXY PAINT	C01	AS SELECTED BY ARCHITECT	
VERTICAL SURFACE (DRY)	SR1	1"x1" KEYSTONE TILE	C01	AS SELECTED BY ARCHITECT	
VERTICAL SURFACE (WET)	KT1	1"x1" KEYSTONE TILE	C06	LIGHT COLOR	
VERTICAL SURFACE (WET)	QA	QUARTZ AGGREGATE	C06	LIGHT COLOR	COOL BLUE DIAMONDBRITE

LEGEND - FINISHES & COLOR CODES - POOL B

AREA	FINISHES		COLORS		
	FINISH ID	FINISH	COLOR ID	COLOR	NOTES
DEPTH MARKERS - DECK	SR3	6"x6" SLIP RESISTANT TILE	C03	BLACK ON WHITE	
DEPTH MARKERS - NO DIVING	SR3	6"x6" SLIP RESISTANT TILE	C04	BLACK AND RED ON WHITE	
DEPTH MARKERS - WALL	CT1	6"x6" CERAMIC TILE	C03	BLACK ON WHITE	
HORIZONTAL SURFACE (DRY)	SR1	1"x1" SLIP RESISTANT TILE	C06	LIGHT COLOR	
HORIZONTAL SURFACE (WET)	QA	QUARTZ AGGREGATE	C06	LIGHT COLOR	COOL BLUE DIAMONDBRITE
TILE - WATERLINE	KT1	1"x1" KEYSTONE TILE	C01	AS SELECTED BY ARCHITECT	
VERTICAL SURFACE (WET)	QA	QUARTZ AGGREGATE	C06	LIGHT COLOR	COOL BLUE DIAMONDBRITE



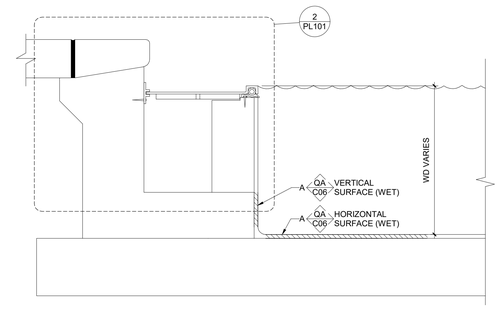
NOSING TYPE C

NOTES:
1. NOSING: 2" MIN. CONTRASTING TILE BAND REQUIRED ON TREAD NOSING AND TOP OF RISER UNLESS OTHERWISE NOTED.

FINISH NOTES:
1. FINISHES PER SCHEDULE UNLESS OTHERWISE INDICATED.
2. VERTICAL SURFACE (WET) AND HORIZONTAL SURFACE (WET) SHALL BE AT LEAST 6.5 ON THE MUNSELL COLOR VALUE SCALE. CONTRASTING COLORS SHALL HAVE A MUNSELL VALUE OF 0 TO 4.
3. ALL HORIZONTAL SURFACES MUST BE SLIP RESISTANT AND COMPLY WITH THE ANSI A137.1 AND ANSI A328.3 STANDARD USING THE ANSI A326.3 DYNAMIC COEFFICIENT OF FRICTION (DCOF) TESTING METHOD:
3A. ON WET LEVEL SURFACES (<=2%), PROVIDE A WET DCOF =/> 0.42.
3B. ON WET SLOPED SURFACES (>2%), PROVIDE A WET DCOF =/> 0.65.
4. DESIGN WATERLINE SHALL HAVE A MAXIMUM CONSTRUCTION TOLERANCE WHEN FINISHED OF +/- 1/4" FOR POOLS AND SPAS WITH ADJUSTABLE SURFACE SKIMMING, AND +/- 1/8" FOR POOLS AND SPAS WITH NONADJUSTABLE SURFACE SKIMMING.
5. REPLACE TILE WITH NEW WITH EPOXY SETTING MATERIALS & GROUT, USE FACE MOUNTED TILE. SEE POOL TILE SPECIFICATION (13 11 61 3.04 POOL CERAMIC TILE INSTALLATION) FOR INFORMATION REGARDING WATERPROOFING MEMBRANE INSTALLATION BENEATH POOL TILE.

1 PL101 | BENCH AND STAIR NOSING CONTRASTING DETAIL VIEW
NONE

2 PL101 | POOL GUTTER WALL FINISH DETAIL VIEW
NOT TO SCALE



3 PL101 | SHALLOW GUTTER WALL DETAIL VIEW
NOT TO SCALE

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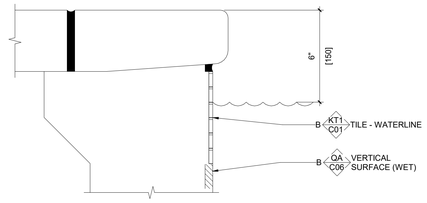
PROJECT NO. **25294**

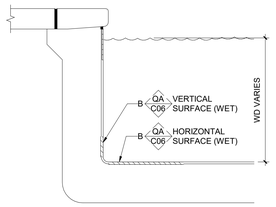
DRAWING TITLE:
GENERAL DETAILS AND SCHEDULES

PL101

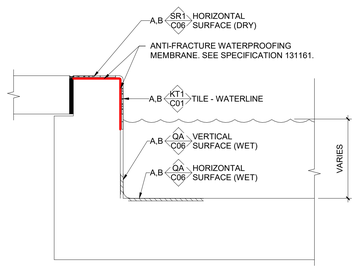
DRAWN BY: T.ED CHECKED BY: AWJ



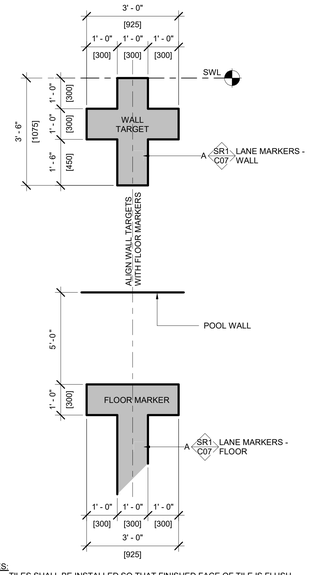
4 PL102 | WADING POOL FORMED WALL - FINISH DETAIL VIEW
NOT TO SCALE



5 PL102 | WADING POOL FORMED WALL DETAIL VIEW
NOT TO SCALE

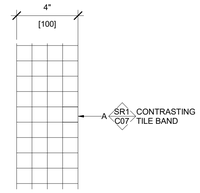


6 PL102 | SHALLOW POOL WALL DETAIL VIEW
NOT TO SCALE



NOTES:
1. TILES SHALL BE INSTALLED SO THAT FINISHED FACE OF TILE IS FLUSH WITH FINISHED SURFACE OF POOL SURFACE
2. ALL TILES SHALL BE IN A CONTRASTING COLOR TO POOL FINISH. BOTH FLOOR AND WALL. CONFIRM TILE COLOR WITH OWNER/ARCHITECT

1 PL102 | FLOOR MARKERS AND WALL TARGETS DETAIL VIEW
1/2" = 1'-0"

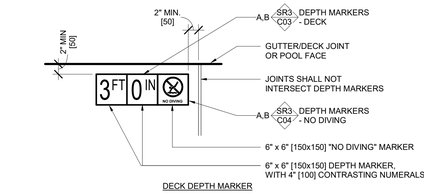


NOTES:
1. 4" CONTRASTING TILE BAND @ 5'-0" WD CONTINUOUS ON POOL FLOOR AND WALLS; COLOR CONTRASTING TO POOL FINISH.

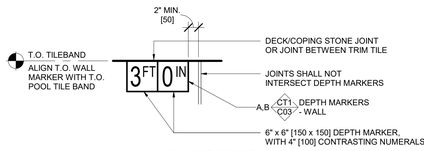
2 PL102 | CONTRASTING TILE BAND DETAIL VIEW
3" = 1'-0"

NOTES:
1. THIS DETAIL IS INTENDED TO ILLUSTRATE THE EQUIPOTENTIAL BONDING GRID AROUND EACH POOL, TANK, AND/OR SPRAY PAD AS REQUIRED BY NEC 680.
2. THE GRID SHALL CONFORM TO ALL NEC 680 REQUIREMENTS.
3. PER NEC 680, THE GRID SHALL:
   3.a. COMPLETELY SURROUND THE PERIMETER OF THE POOL, TANK, AND/OR SPRAY PAD AND EXTEND 3 FEET HORIZONTALLY FROM THE INSIDE WALLS OF THE POOL, AND/OR TANK, OR PERIMETER EXPANSION JOINT AT SPRAY PADS.
   3.b. BE ARRANGED IN A 12" X 12" (OR LESS) NETWORK OF CONDUCTORS IN A UNIFORMLY SPACED PATTERN.
   3.c. BE BONDED TO THE POOL, TANK, AND/OR SPRAY PAD REINFORCING STEEL.
4. THIS DETAIL IS NOT INTENDED TO DETAIL THE WALLS, SLABS, OR THE DECKS. THE ABOVE DETAIL IS SCHEMATIC. SEE POOL, TANK, AND/OR SPRAY PAD SECTIONS AND DECK SECTIONS FOR ADDITIONAL CONSTRUCTION REQUIREMENTS.
5. SEE POOL, TANK, AND/OR SPRAY PAD ELECTRICAL DRAWINGS FOR ADDITIONAL BONDING & GROUNDING REQUIREMENTS.

7 PL102 | POOL EQUIPOTENTIAL BONDING GRID DETAIL VIEW
3" = 1'-0"



DECK DEPTH MARKER



WALL DEPTH MARKER

NOTES:
1. ■■■ - WALL DEPTH MARKER AT LOCATIONS AS INDICATED ON PLAN BY THIS SYMBOL.
2. EXCLUDE "NO DIVING" MARKER TILES AT POOL WALL DEPTH MARKER LOCATIONS AND AT POOL DEPTHS GREATER THAN 5'-0".
3. DEPTH MARKERS SHALL BE LEGIBLE FROM INSIDE THE POOL AND FROM THE POOL DECK.
4. THE POOL CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING MARKINGS ACCURATE TO WITHIN ONE INCH OF THE CONSTRUCTED WATER DEPTHS AT LOCATIONS INDICATED ON PLAN AT A MAX 25'-0" SPACING AND IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.
5. DEPTH MARKER TEXT SHALL INDICATE THE ACTUAL POOL DEPTH WITHIN 3" AT NORMAL OPERATING WATER LEVEL WHEN MEASURED 3'-0" FROM POOL WALL. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING PROPER TEXT FOR EACH MARKER LOCATION.
6. MARKINGS SHALL BE INSTALLED FLUSH WITH SURROUNDING SURFACES AND RECESSED IF NECESSARY.
7. ALL MARKINGS INSTALLED ON HORIZONTAL SURFACES SHALL HAVE A SLIP RESISTANT FINISH.
8. DECK DEPTH MARKER MUST BE LOCATED WITHIN 18" OF WATER'S EDGE.

3 PL102 | DEPTH MARKER DECK & WALL DETAIL VIEW
1" = 1'-0"

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1	04/10/2026	BID SET

PROJECT NO. **25294**

DRAWING TITLE:
GENERAL DETAILS

PL102

SCHEDULE - BASIS OF DESIGN - POOL A

POOL ID	EQUIPMENT ID	EQUIPMENT	QTY	MANUFACTURER	DESCRIPTION
A	01	SAFETY PAD	1	RENOSYS	4" THICK SOFTSIDE SLIP RESISTANT PADDED SAFTEY FLOORING WITH SAFETY NETTING - W4129004
A	02	SAFETY BARRIERS	1	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	4 SAFETY BARRIER STANCHIONS W\ NETTING - W0011412 - 114' X 45'
A	03	HANDRAIL	1	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	W1505061 RAILS/STAIRS LEFT
A	04	HANDRAIL	1	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	W1505062 RAILS/STAIRS RIGHT
A	05	POOL LIFT	1	SR SMITH, AQUA CREEK, OR EQUAL	PAL PACKAGE (CALIFORNIA LIFT PACKAGE) INCLUDES ARMREST PACKAGE AND SPINE BOARD. MUST BE ADA COMPLIANT WITH A LIFTING CAPACITY OF 300 LBS. PROVIDE BATTERY CHARGER, EXTRA BATTERY, AND TOTAL COVER. REFER TO ALTERNATE #3 FOR ADDITIONAL INFORMATION

POOL DATA - POOL A (EXISTING POOL)

DESCRIPTION	QTY	UNITS
WATER SURFACE AREA	9,909	SQUARE FEET
POOL VOLUME	298,371	GALLONS
TURNOVER	60 AND 300	MINUTES
TOTAL CIRCULATION FLOW	1,788	GPM
FILTRATION RATE	12.86	GPM/SF
SURGE VOLUME	6,609	GALLONS

POOL DATA - POOL B (EXISTING POOL)

DESCRIPTION	QTY	UNITS
WATER SURFACE AREA	600	SQUARE FEET
POOL VOLUME	3,871	GALLONS
TURNOVER	30	MINUTES
TOTAL CIRCULATION FLOW	130	GPM
FILTRATION RATE	11.01	GPM/SF

ALTERNATE #1:

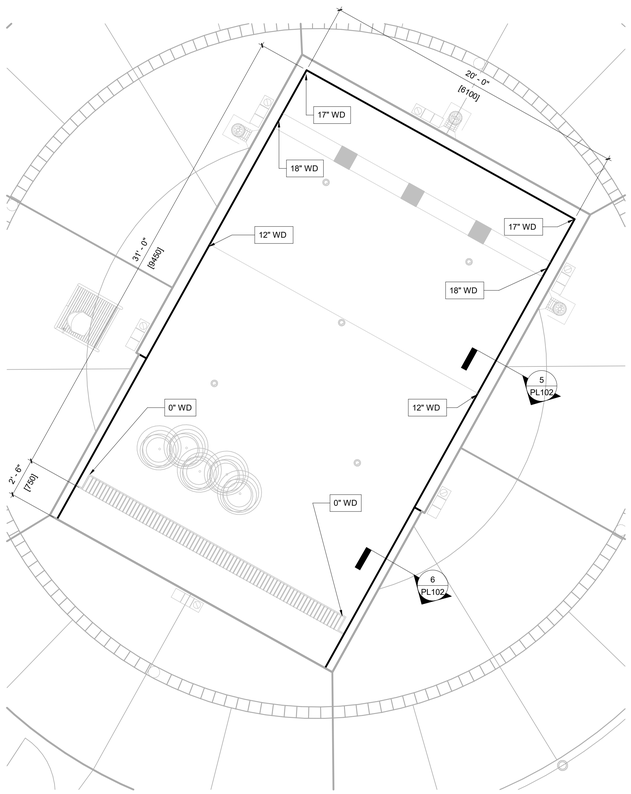
1. REFINISH EXISTING PLAY STRUCTURE AT ZERO DEPTH ENTRY. CLEAN, PREP SURFACE AND APPLY NEW UV RESISTANT COATING ON ALL PLAY STRUCTURE ELEMENTS INCLUDING STRUCTURE SUPPORTS AND DECKING.

ALTERNATE #2:

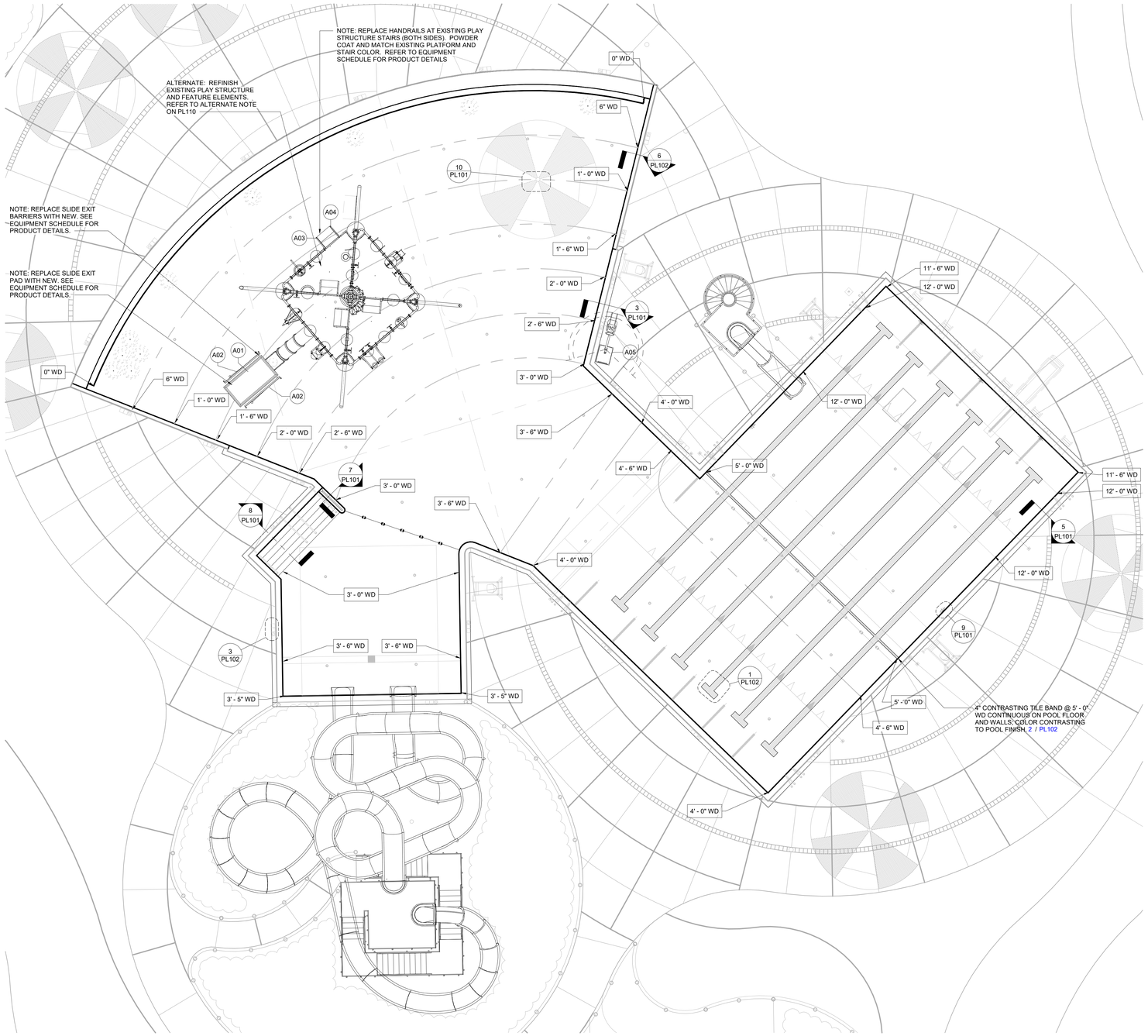
1.PREP AND APPLY NEW INTERIOR GEL COAT AND EXTERIOR UV RESISTANT PAINT AT EXISTING (3) EXISTING SLIDE FLUMES (BUDY SLIDE, TUBE SLIDE AND DROP SLIDE). SEE SPECIFICATION 13 14 13 SLIDE REFINISH FOR ADDITIONAL DETAILS.

ALTERNATE # 3:

1. BASE BID - OWNER TO PROVIDE ADA POOL LIFT AS SCHEDULED. ALTERATE - CONTRACTOR TO PROVIDE FURNISH AND INSTALLATION OF SCHEDULED ADA POOL LIFT.



2 | PL110 POOL B - EXISTING WADING POOL
PLAN VIEW
1/8" = 1'-0"



1 | PL110 POOL A - EXISTING LEISURE POOL
PLAN VIEW
1/8" = 1'-0"

DIMENSIONING NOTES:

1. ALL DIMENSIONS ARE SHOWN FROM POOL FINISH TO POOL FINISH (THIS SHEET)
2. DIMENSIONS SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY AND ARE APPROXIMATE IN NATURE. CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY ALL DIMENSIONS PRIOR TO AND REQUIRED FOR FABRICATION OF ANY POOL RELATED COMPONENTS.

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PROJECT NO. **25294**

DRAWING TITLE:
POOL DIMENSION PLANS

PL110

CHECKED BY: AWJ
DRAWN BY: T.ED
4/13/2026 10:40:14 Autodesk Docs://25306.00_City of Troy Aquatic Park Improvements & Maintenance/25294 - City of Troy OH R24.rvt

DESIGN IS IN ACCORDANCE WITH THE OHIO BUILDING CODE 2024 AND THE 2021 INTERNATIONAL BUILDING CODE AS AMENDED TO DATE.

NOTE

STRUCTURAL DRAWINGS AND POOL DRAWINGS MUST BE USED IN CONJUNCTION WITH EACH OTHER. POOL DRAWINGS DICTATE ALL FINAL CONDITIONS OF POOL, FEATURES, AND DIMENSIONS OF POOL SHELL, INCLUDING POOL FINISH. UNLESS OTHERWISE INDICATED, STRUCTURAL DIMENSIONS ARE CONCRETE TO CONCRETE, AND DICTATE REQUIRED THICKNESSES FOR STRUCTURAL INTEGRITY ONLY.

STRUCTURAL AND REINFORCEMENT NOTES

STRUCTURAL NOTES

1. REINFORCEMENT AT WALL CORNERS AND WALL BENDS SHALL BE DETAILED PER THE ASSOCIATED TYPICAL DETAILS. CORNER AND BEND BARS SHALL BE THE SAME SIZE AND SPACING AS THE TYPICAL HORIZONTAL WALL REINFORCING OF THE ASSOCIATED WALLS.
2. UNLESS OTHERWISE INDICATED, ALL WALL REINFORCEMENT BARS SHALL BE CONTINUOUS AROUND CORNERS. REINFORCEMENT SHALL BE EXTENDED INTO CONNECTING WALLS. UNLESS OTHERWISE INDICATED, CONTRACTOR MAY SPLICE CONTINUOUS SLAB BARS AT LOCATIONS OF THEIR CHOOSING, EXCEPT THAT TOP BAR SPLICES SHALL BE LOCATED AT MID-SPAN AND BOTTOM BAR SPLICES SHALL BE LOCATED AT SUPPORTS. ALL REINFORCEMENT BENDS AND LAPS, UNLESS OTHERWISE INDICATED, SHALL SATISFY THE MINIMUM REQUIREMENTS FOR CLASS B SPLICES.
3. FOR REINFORCEMENT AT WALL OR FLOOR SLAB PENETRATIONS, SEE 2 / PL200
4. MINIMUM POURED CONCRETE DESIGN STRENGTH = 4500 PSI, MINIMUM SHOTCRETE DESIGN STRENGTH = 5000 PSI
5. CONCRETE SHALL CONTAIN SHRINKAGE REDUCING ADMIXTURE AND XYPEX CRYSTALLINE WATERPROOFING ADMIXTURE, PER SPECIFICATIONS.
6. ALL NEW CONCRETE AND REPAIR MATERIAL CONTAINING XYPEX SHALL BE SURFACE PREPPED TO RECEIVE NEW POOL FINISH. CONTRACTOR SHALL COORDINATE WITH XYPEX TECHNICAL SERVICES FOR MOST CURRENT SURFACE PREPARATION METHOD STATEMENT FOR POOL FINISHES.

REINFORCEMENT NOTES: 60KSI, A615, DEFORMED BARS

1. REINFORCEMENT SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI "MANUAL OF CONCRETE PRACTICE", LATEST EDITION, UNLESS OTHERWISE NOTED.
2. ALL LAPS SHALL BE CLASS "B" PER ACI 318 UNLESS OTHERWISE NOTED ON THE DESIGN DRAWINGS. USE TOP BAR LAP LENGTHS FOR ALL HORIZONTAL WALL BARS AND FOR TOP BARS IN SLABS AND BEAMS OVER 14" DEEP
3. LAP LENGTH SHALL BE SPECIFICALLY NOTED ON PLACING DRAWINGS WHERE MORE THAN ONE BAR MAKES UP A CONTINUOUS STRING.
4. TIE POOL REINFORCING STEEL WITH 18-GAUGE ANNEALED WIRE AS SPECIFIED IN THE CRSI 63 RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS. ALL TIE WIRES SHALL BE "MADE TIGHT" FOR ELECTRICAL BONDING PURPOSES, AS REQUIRED PER 7 / PL102 .
5. ALL HOOKS SHALL BE STANDARD HOOKS UNLESS NOTED OTHERWISE.
6. REINFORCING IN SINGLE MAT SECTIONS SHALL BE CENTERED IN THE SECTION, UNLESS SHOWN OTHERWISE IN DETAILS.

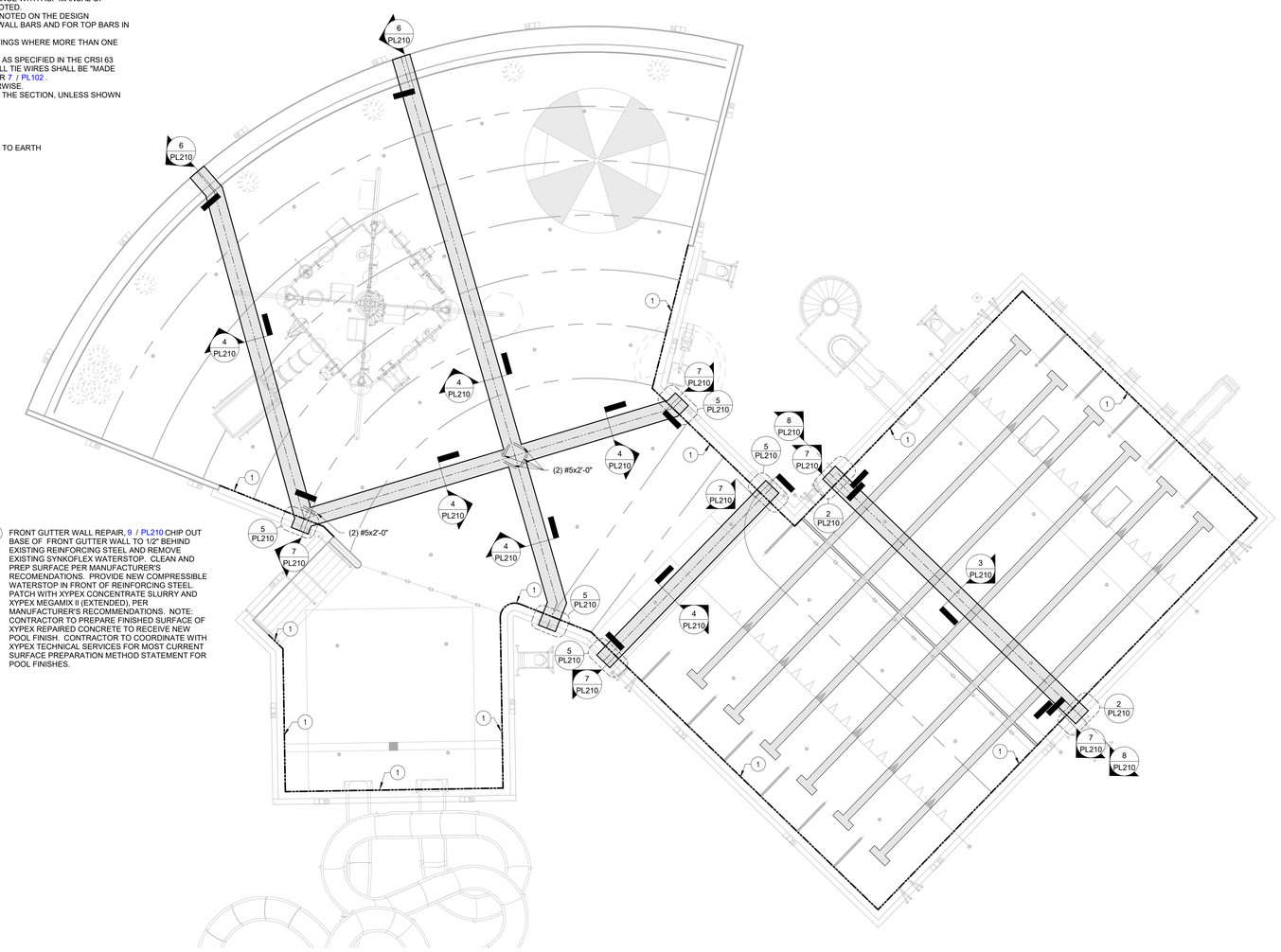
REINFORCING STEEL MINIMUM CLEAR COVER REQUIREMENTS

COORDINATE WITH REINFORCEMENT STEEL PLACING REQUIREMENTS

1. 3" FOR CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH
2. 2" TYPICAL ALL ELSE, UNLESS NOTED OTHERWISE ON DETAILS

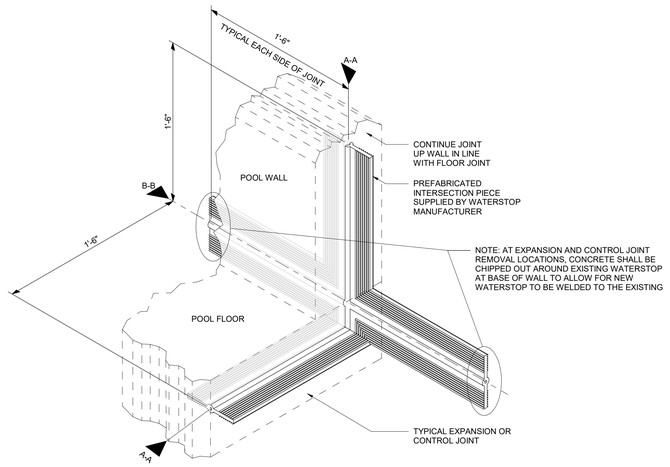
REINFORCEMENT CLASS "B" LAP LENGTHS

BASED UPON 4500 PSI CONCRETE AND 60 KSI REINFORCING STEEL

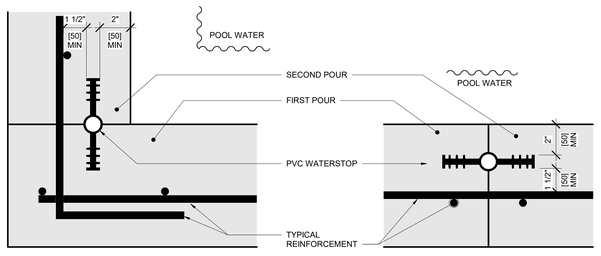


1 FRONT GUTTER WALL REPAIR, 9 / PL210 CHIP OUT BASE OF FRONT GUTTER WALL TO 1/2" BEHIND EXISTING REINFORCING STEEL AND REMOVE EXISTING SYNKOFLEX WATERSTOP. CLEAN AND PREP SURFACE PER MANUFACTURER'S RECOMENDATIONS. PROVIDE NEW COMPRESSIBLE WATERSTOP IN FRONT OF REINFORCING STEEL. PATCH WITH XYPEX CONCENTRATE SLURRY AND XYPEX MEGAMIX II (EXTENDED), PER MANUFACTURER'S RECOMMENDATIONS. NOTE: CONTRACTOR TO PREPARE FINISHED SURFACE OF XYPEX REPAIRED CONCRETE TO RECEIVE NEW POOL FINISH. CONTRACTOR TO COORDINATE WITH XYPEX TECHNICAL SERVICES FOR MOST CURRENT SURFACE PREPARATION METHOD STATEMENT FOR POOL FINISHES.

1 PL200 POOL A - EXISTING LEISURE POOL STRUCTURAL PLAN VIEW
1/8" = 1'-0"



HORIZONTAL TO VERTICAL INSTALLATION @ TYPICAL JOINT

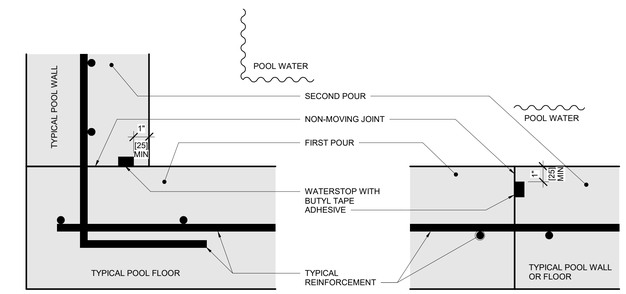


SECTION B-B FLOOR / WALL JOINT

SECTION A-A: WALL / WALL JOINT OR FLOOR/FLOOR JOINT

NOTES:
1. DETAIL IS SCHEMATIC AND INDICATES CLEARANCES AND INSTALLATION INFORMATION ONLY. FOR APPLICABLE INSTALLATION LOCATIONS SEE POOL STRUCTURAL DETAILS.
2. WATERSTOP SHALL BE 6" PVC RIBBED WITH 1" DIA CENTERBULB UNLESS NOTED OTHERWISE.
3. INSTALL WATERSTOP ON WET SIDE(S) OF REINFORCEMENT.
4. ALL WATERSTOPS SHALL BE WELDED PER MANUFACTURER'S REQUIREMENTS.
5. SPACING BETWEEN REINFORCING STEEL AND WATERSTOP SHALL BE NO LESS THAN 1.5 x DIA OF THE LARGEST AGGREGATE IN THE APPROVED CONCRETE MIX.
6. SEE SPECIFICATION SECTION 131120 FOR ADDITIONAL WATERSTOP REQUIREMENTS.

4 PL200 WATERSTOP - PVC DETAIL VIEW
NOT TO SCALE



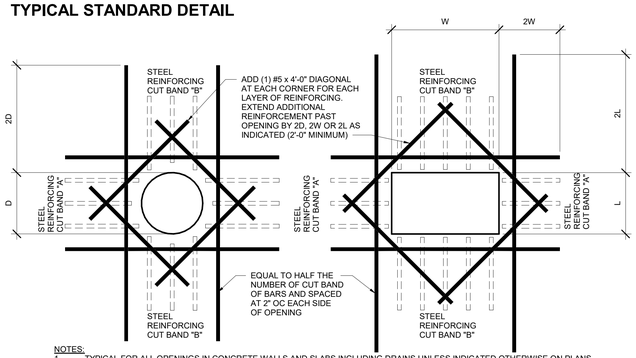
SECTION B-B FLOOR / WALL JOINT

SECTION A-A: WALL / WALL JOINT OR FLOOR/FLOOR JOINT

NOTE:
1. DETAIL IS SCHEMATIC AND INDICATES CLEARANCES AND INSTALLATION INFORMATION ONLY. FOR APPLICABLE INSTALLATION LOCATIONS SEE POOL STRUCTURAL DETAILS.
2. BASIS OF DESIGN IS TYPE KBA-1510FP WATERSTOP BY ADEKA. SUBSTITUTIONS MUST BE APPROVED BY ENGINEER. NOTE THAT CLEARANCES FOR SUBSTITUTIONS MAY DIFFER. REFER TO MANUFACTURER REQUIREMENTS.
3. INSTALL WATERSTOP ON WET SIDE(S) OF REINFORCEMENT.
4. DIMENSION ABOVE IS A MIN FOR CONCRETE COVERAGE AND DOES NOT INCLUDE THE POOL FINISH. PROVIDE ADDITIONAL CONCRETE COVERAGE IF POSSIBLE.
5. PROTECT WATERSTOP FROM WATER, DIRT, DEBRIS, AND DAMAGE PRIOR TO COVERING WITH CONCRETE.
6. SEE SPECIFICATION SECTION 131120 FOR ADDITIONAL WATERSTOP REQUIREMENTS.

3 PL200 WATERSTOP - COMPRESSIBLE NON-MOVING JOINT - ADEKA DETAIL VIEW
NOT TO SCALE

TYPICAL STANDARD DETAIL



NOTES:
1. TYPICAL FOR ALL OPENINGS IN CONCRETE WALLS AND SLABS INCLUDING DRAINS UNLESS INDICATED OTHERWISE ON PLANS.
2. DO NOT WELD REINFORCEMENT TO PIPE SLEEVES AND INSERTS.
3. ALL OPENINGS THROUGH WATERTIGHT TANK REQUIRE WATERSTOPS.
4. PROVIDE MINIMUM LAP AS NOTED OR SHOWN ON PLANS (TYPICAL).

2 PL200 REINFORCING - REINFORCEMENT AT OPENINGS DETAIL VIEW
NTS

GRAEF
Project Number: 2026-2000.13
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NO.	DATE	ISSUED / REVISION
1	04/10/2026	BID SET

PROJECT NO. 25294

DRAWING TITLE:
STRUCTURAL NOTES, PLAN(S) AND SCHEDULE

PL200

CHECKED BY: Checker
DRAWN BY: Author
4/13/2026 10:40:19 Autodesk Docs://25306.00_City of Troy Aquatic Park Improvements & Maintenance/25294 - City of Troy OH.R24.rvt

CHECKED BY: Checker
DRAWN BY: Author
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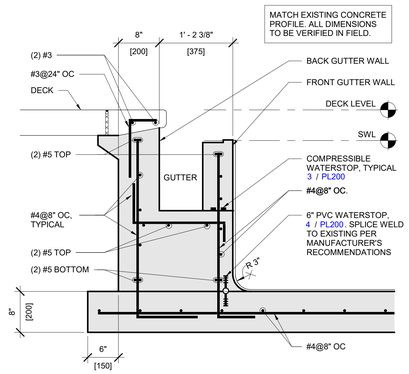
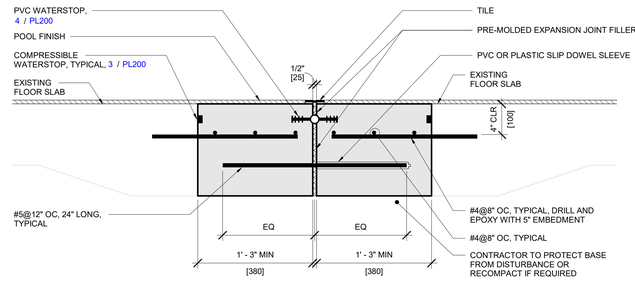
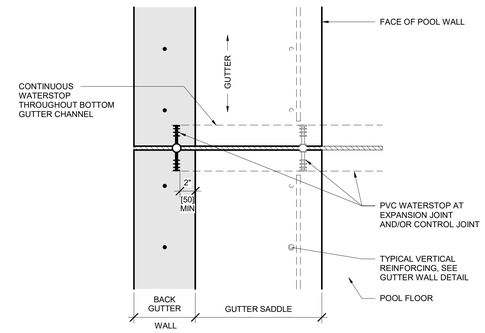


7 | REINFORCING - 2'-0 TO 7'-0" SWIMOUT GUTTER WALL SECTION DETAIL VIEW
PL210 | 1" = 1'-0"

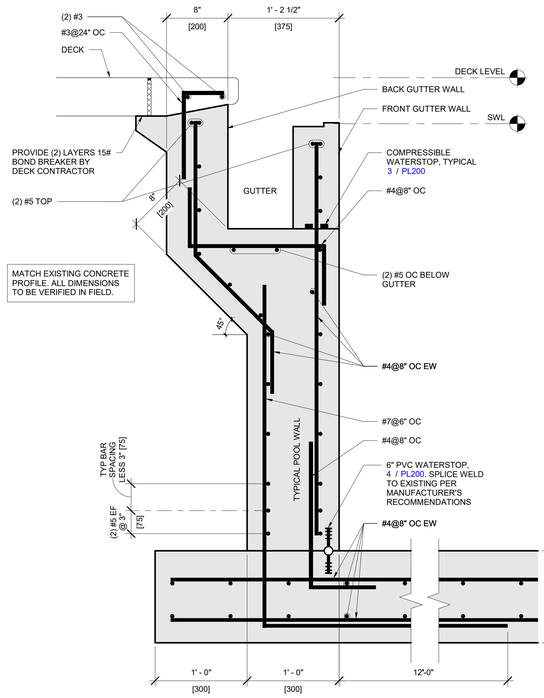


NOTES:
1. WALL JOINT SHALL BE ALIGNED WITH FLOOR JOINT.
2. SEE FINISH SCHEDULE FOR TILE AND POOL FINISH.
3. SEE SPECIFICATIONS FOR APPROVED MATERIALS.
4. SCARIFY CONCRETE INTERFACE AND APPLY BONDING AGENT.
5. NEW CONCRETE SHALL CONTAIN SHRINKAGE REDUCING ADMIXUTRE AND SHALL BE WET CURED PER SPECIFICATIONS.

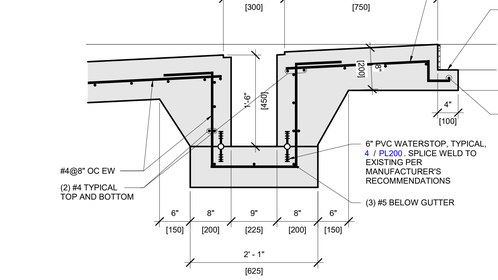
4 | REINFORCING - POOL FLOOR EXPANSION JOINT DETAIL VIEW
PL210 | 1 1/2" = 1'-0"



1 | WATERSTOP - WALL/FLOOR JOINT AT GUTTER PLAN VIEW
PL210 | 1 1/2" = 1'-0"



8 | REINFORCING - 7'-0" TO 12'-0" GUTTER WALL DETAIL VIEW
PL210 | 1 1/2" = 1'-0"

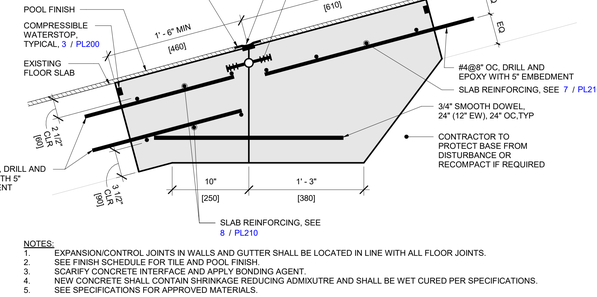


SINGLE MAT WALL

DOUBLE MAT WALL

NOTES:
1. WALL JOINT SHALL BE ALIGNED WITH FLOOR JOINT.
2. SEE FINISH SCHEDULE FOR TILE AND POOL FINISH.
3. SEE SPECIFICATIONS FOR APPROVED MATERIALS.
4. SCARIFY CONCRETE INTERFACE AND APPLY BONDING AGENT.
5. NEW CONCRETE SHALL CONTAIN SHRINKAGE REDUCING ADMIXUTRE AND SHALL BE WET CURED PER SPECIFICATIONS.
6. PVC WATERSTOP SHALL BE CONTINUOUS. SEE 1 / PL210 FOR WATERSTOP AT GUTTER.

5 | REINFORCING - POOL WALL EXPANSION JOINT DETAIL VIEW
PL210 | 1 1/2" = 1'-0"



SINGLE MAT WALL

DOUBLE MAT WALL

NOTES:
1. EXPANSION/CONTROL JOINTS IN WALLS AND GUTTER SHALL BE LOCATED IN LINE WITH ALL FLOOR JOINTS.
2. SEE FINISH SCHEDULE FOR TILE AND POOL FINISH.
3. SCARIFY CONCRETE INTERFACE AND APPLY BONDING AGENT.
4. NEW CONCRETE SHALL CONTAIN SHRINKAGE REDUCING ADMIXUTRE AND SHALL BE WET CURED PER SPECIFICATIONS.
5. SEE SPECIFICATIONS FOR APPROVED MATERIALS.
6. PVC WATERSTOP SHALL BE CONTINUOUS. SEE 1 / PL210 FOR WATERSTOP AT GUTTER.

2 | REINFORCING - POOL WALL CONTROL JOINT DETAIL VIEW
PL210 | 1 1/2" = 1'-0"

9 | WATERSTOP REPLACEMENT AT GUTTER DETAIL VIEW
PL210 | 1 1/2" = 1'-0"

6 | REINFORCING - ZERO DEPTH AND ROLLBACK DETAIL VIEW
PL210 | 1" = 1'-0"

NOTES:
1. EXPANSION/CONTROL JOINTS IN WALLS AND GUTTER SHALL BE LOCATED IN LINE WITH ALL FLOOR JOINTS.
2. SEE FINISH SCHEDULE FOR TILE AND POOL FINISH.
3. SCARIFY CONCRETE INTERFACE AND APPLY BONDING AGENT.
4. NEW CONCRETE SHALL CONTAIN SHRINKAGE REDUCING ADMIXUTRE AND SHALL BE WET CURED PER SPECIFICATIONS.
5. SEE SPECIFICATIONS FOR APPROVED MATERIALS.

3 | REINFORCING - POOL FLOOR CONTROL JOINT DETAIL VIEW
PL210 | 1 1/2" = 1'-0"

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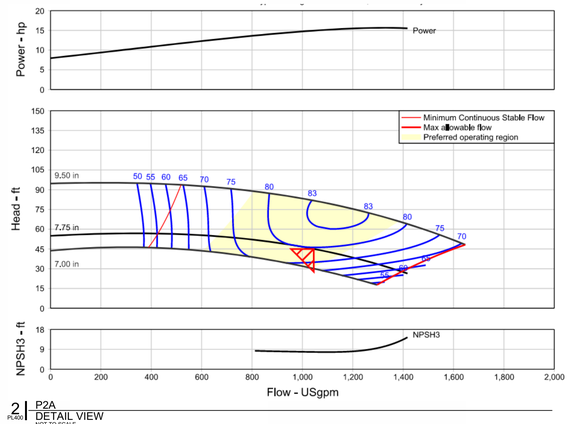
PROJECT NO. **25294**

DRAWING TITLE:
STRUCTURAL DETAILS

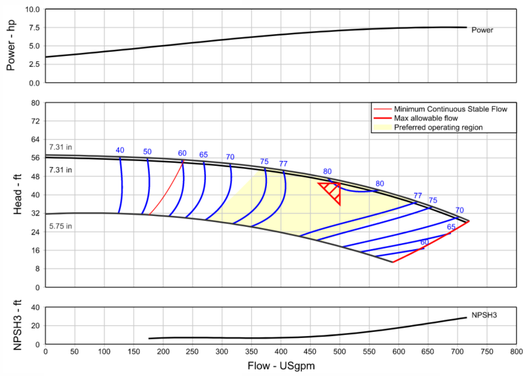
GRAEF
Project Number: 2026-2000.13
Phone 920 / 592 9440

PL210

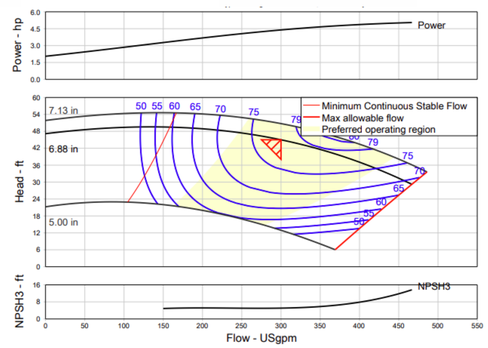
CHECKED BY: Checker
DRAWN BY: Author



2 | P2A DETAIL VIEW
PL400 NOT TO SCALE



3 | P3A DETAIL VIEW
PL400 NOT TO SCALE



4 | P5A PUMP CURVE DETAIL VIEW
PL400 NOT TO SCALE

POOL DATA - POOL B (EXISTING POOL)

DESCRIPTION	QTY	UNITS
WATER SURFACE AREA	600	SQUARE FEET
POOL VOLUME	3,871	GALLONS
TURNOVER	30	MINUTES
TOTAL CIRCULATION FLOW	130	GPM
FILTRATION RATE	11.01	GPM/SF

EQUIPMENT SCHEDULE - POOL B

ID	ITEM	QTY	MANUFACTURER	BASIS OF DESIGN
F1B	FILTER	1	NEPTUNE BENSON	LEGACY SERIES, MODEL #48CCFG-3, 11.8 SF OF SURFACE AREA, 11.01 GPM/SF. PROVIDE WITH NEW MULTIPORT VALVE.
H1B	HEATER	1	LOCHINVAR	ENERGYRITE ERN202, 199,999 BTU/HOUR INPUT, 0.75" GAS CONNECTION, 2" WATER CONNECTION, 5" DIAMETER FLUE, CUPRO NICKEL HEAT EXCHANGER, MANUAL RESET HIGH LIMIT AND MULTI-STACK STAND. PROVIDE A.S.M.E. CONSTRUCTION, PRESSURE RELIEF VALVE, FLOW SWITCH, OPTIONAL PUMP ON/OFF RELAY, AND ALL SAFETY DEVICE PACKAGES PER STATE AND LOCAL CODES.
C1B	CHEMICAL CONTROLLER	1	HAYWARD	CAT 4000 SEE SPECIFICATIONS
CF1B	CHLORINE FEEDER	1	AXIALL	ACCUTAB CHLORINATION SYSTEM, POWERBASE 3140AT CHLORINATOR, FEEDS UP TO 22 LBS/HR CALCIUM HYPOCHLORITE, 140 LBS TABLET STORAGE, 120V, 2" CONNECTIONS. USE ACCU-TAB BLUE SI TABLETS (CALCIUM HYPOCHLORITE) FOR DISINFECTANT.

INTERLOCK THE CHEMICAL CONTROLLER WITH THE FILTRATION PUMP TO DISABLE ALL CHEMICAL FEEDING WHEN PUMP IS OFF. LOSES POWER, OR IS IN BACKWASH MODE. SEE PL501 AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

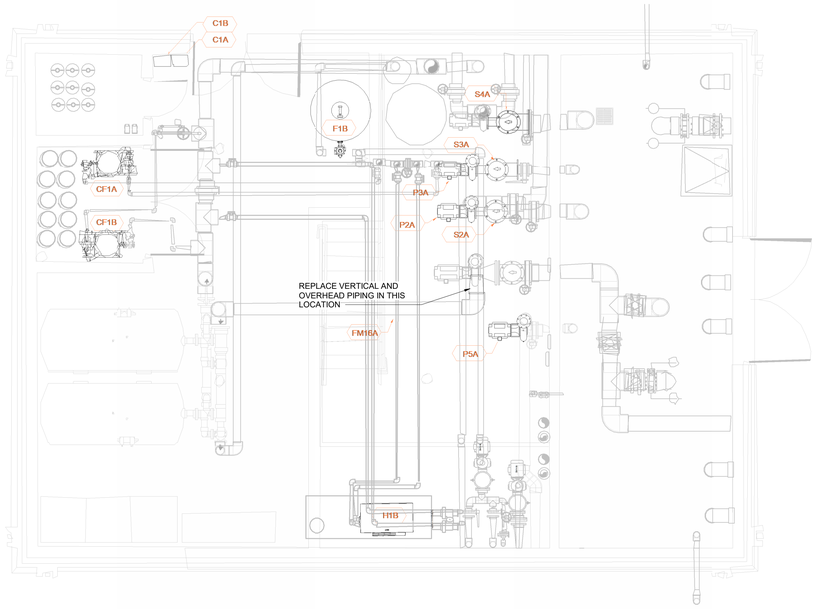
POOL DATA - POOL A (EXISTING POOL)

DESCRIPTION	QTY	UNITS
WATER SURFACE AREA	9,909	SQUARE FEET
POOL VOLUME	298,371	GALLONS
TURNOVER	60 AND 300	MINUTES
TOTAL CIRCULATION FLOW	1,788	GPM
FILTRATION RATE	12.86	GPM/SF
SURGE VOLUME	6,609	GALLONS

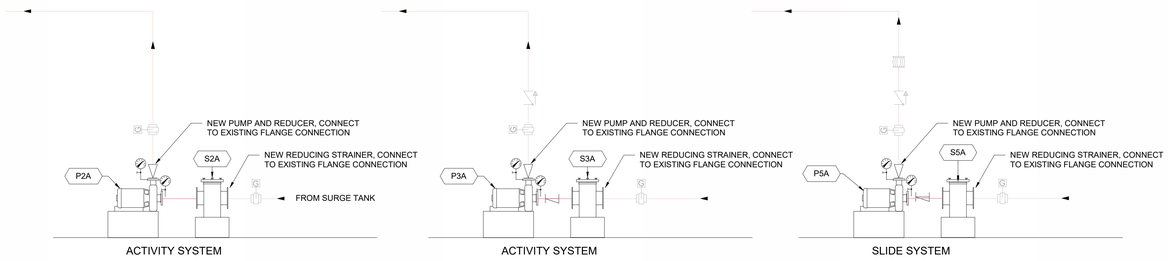
EQUIPMENT SCHEDULE - POOL A

ID	ITEM	QTY	MANUFACTURER	BASIS OF DESIGN
P2A	PLAY STRUCTURE PUMP	1	AURORA	3801, 5x6x9.5, 20 HP, 208 VOLT, 3 PHASE, 1800 RPM, 1,045 GPM, @ 45' TDH, TEFC MOTOR, END SUCTION, CLOSE COUPLED, 316 STAINLESS STEEL IMPELLOR AND FITTED (SF), EPOXY COATED VOLUTE
P3A	GEYSERS PUMP	1	AURORA	3801, 4x5x9.5, 10 HP, 208 VOLT, 3 PHASE, 1800 RPM, 500 GPM, @ 45' TDH, TEFC MOTOR, END SUCTION, CLOSE COUPLED, 316 STAINLESS STEEL IMPELLOR AND FITTED (SF), EPOXY COATED VOLUTE
P5A	DROP SLIDE PUMP	1	AURORA	3801, 3x4x7A, 7.5 HP, 208 VOLT, 3 PHASE, 1800 RPM, 300 GPM, @ 45' TDH, TEFC MOTOR, END SUCTION, CLOSE COUPLED, 316 STAINLESS STEEL IMPELLOR AND FITTED (SF), EPOXY COATED VOLUTE
S2A	PLAYS STRUCTURE STRAINER	1	NEPTUNE BENSON	12"x6" ECCENTRIC REDUCING BASKET STRAINER, STAINLESS STEEL BODY, TRANSPARENT ACRYLIC LID, STAINLESS STEEL BASKET. PROVIDE WITH EXTRA STAINLESS STEEL BASKET. VERIFY SIZE OF EXISTING SUCTION PIPING.
S3A	GEYSERS STRAINER	1	NEPTUNE BENSON	8"x5" ECCENTRIC REDUCING BASKET STRAINER, STAINLESS STEEL BODY, TRANSPARENT ACRYLIC LID, STAINLESS STEEL BASKET. PROVIDE WITH EXTRA STAINLESS STEEL BASKET. VERIFY SIZE OF EXISTING SUCTION PIPING.
S4A	BODY SLIDE STRAINER	1	NEPTUNE BENSON	12x8" ECCENTRIC REDUCING BASKET STRAINER, STAINLESS STEEL BODY, TRANSPARENT ACRYLIC LID, STAINLESS STEEL BASKET. PROVIDE WITH EXTRA STAINLESS STEEL BASKET. VERIFY SIZE OF EXISTING SUCTION PIPING.
FM16A	FLOW METER	1	SIGNET	2551 MAG METER, INSERTION STYLE MAGNETIC FLOW SENSOR, MODEL # 3-2551-P2-11 PROVIDE WITH FIELD MOUNT FLOW TRANSMITTER MODEL #3-9900-1 AND UNIVERSAL MOUNTING KIT MODEL #3-8050, FLOW AND DESCRIPTION TO BE DISPLAYED ON TRANSMITTER. PROVIDE WITH IRON STRAP-ON SADDLE MODEL NUMBER IR8S100 (10")
C1A	CHEMICAL CONTROLLER	1	HAYWARD	CAT 4000 SEE SPECIFICATIONS
CF1A	CHEMICAL FEEDER	1	AXIALL	ACCUTAB CHLORINATION SYSTEM, POWERBASE 3140AT CHLORINATOR, FEEDS UP TO 22 LBS/HR CALCIUM HYPOCHLORITE, 140 LBS TABLET STORAGE, 120V, 2" CONNECTIONS. USE ACCU-TAB BLUE SI TABLETS (CALCIUM HYPOCHLORITE) FOR DISINFECTANT.

NOTES:
1. INTERLOCK THE CHEMICAL CONTROLLER WITH THE FILTRATION PUMP TO DISABLE ALL CHEMICAL FEEDING WHEN PUMP IS OFF. LOSES POWER, OR IS IN BACKWASH MODE. SEE PL501 AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
2. ALL PUMP FLOW AND TDH REQUIREMENTS HAVE BBEN LISTED TO MATCH THE ORIGINAL DESIGN SPECIFICATIONS.



1 | POOL MECHANICAL ROOM LAYOUT PLAN VIEW
PL400 1/4" = 1'-0"



5 | POOL A - P&ID DETAIL VIEW
PL400 NOT TO SCALE

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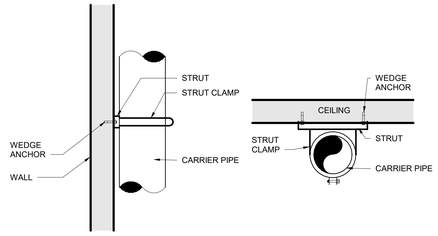
PROJECT NO. **25294**

DRAWING TITLE:
MECHANICAL EQUIPMENT PLAN

PL400

4/13/2026 10:40:24 Autodesk Docs://25306.00_City of Troy Aquatic Park Improvements & Maintenance/25294 - City of Troy OH.R24.rvt

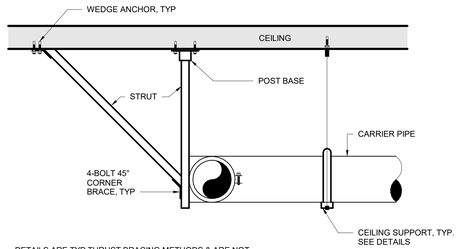
DRAWN BY: Author
CHECKED BY: Checker



WALL SUPPORT CEILING SUPPORT

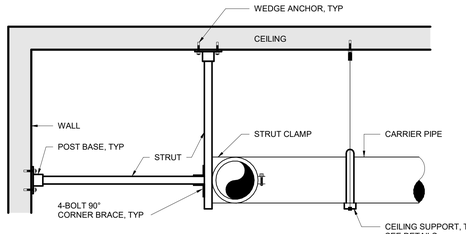
NOTES:
1. DETAILS ARE TYP SUPPORT METHODS AND ARE NOT INCLUSIVE OF ALL SITE CONDITIONS.
2. ALL PIPING SHALL BE RIGIDLY SUPPORTED LATERALLY AND VERTICALLY. SUPPORT SYSTEM SHALL PROVIDE ZERO MOVEMENT IN PIPING DURING ALL OPERATING CONDITIONS.
3. PROVIDE THRUST RESTRAINT AT ALL HORIZONTAL/HORIZONTAL, HORIZONTAL/VERTICAL AND VERTICAL/HORIZONTAL CHANGES IN DIRECTIONS.
4. SEE DIVISION 13 SPECIFICATIONS FOR ADDITIONAL SUPPORT REQUIREMENTS AND MATERIALS.
5. SEE PIPE SUPPORT TABLE ON DRAWINGS.

9 | PIPE SUPPORT DETAIL VIEW
PL401 NOT TO SCALE



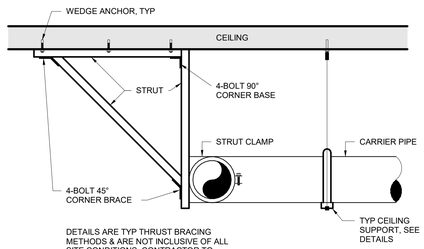
DETAILS ARE TYP THRUST BRACING METHODS & ARE NOT INCLUSIVE OF ALL SITE CONDITIONS. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF BRACING METHODS FOR APPROVAL.

10 | PIPE THRUST BRACING DETAIL VIEW
PL401 NOT TO SCALE



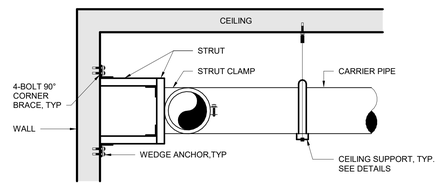
DETAILS ARE TYP THRUST BRACING METHODS & ARE NOT INCLUSIVE OF ALL SITE CONDITIONS. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF BRACING METHODS FOR APPROVAL.

11 | PIPE THRUST BRACING DETAIL VIEW
PL401 NOT TO SCALE



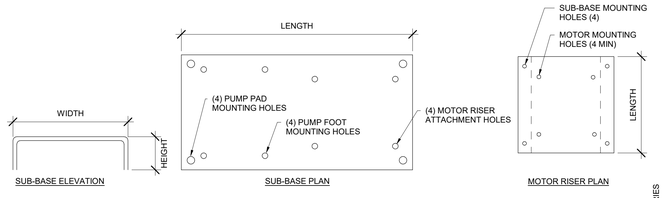
DETAILS ARE TYP THRUST BRACING METHODS & ARE NOT INCLUSIVE OF ALL SITE CONDITIONS. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF BRACING METHODS FOR APPROVAL.

12 | PIPE THRUST BRACING DETAIL VIEW
PL401 NOT TO SCALE



DETAILS ARE TYP THRUST BRACING METHODS & ARE NOT INCLUSIVE OF ALL SITE CONDITIONS. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF BRACING METHODS FOR APPROVAL.

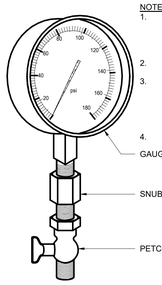
13 | PIPE THRUST BRACING DETAIL VIEW
PL401 NOT TO SCALE



MOTOR FRAME GROUP	143-184	213-215	254-286	324-365	284-326-11A	324-365 x 13.5	404-445
SUB BASE LENGTH	26.25	31	37	40	43.5	46.5	54
SUB BASE WIDTH	12	16	17	20	25	25	25
SUB BASE HEIGHT	3	3	3	3	4	4	4
RISER LENGTH	12	15	20	24	N/A	24	30
RISER WIDTH	10	12	15	18	N/A	18	22

NOTES:
1. SUB-BASE AND MOTOR RISER HOLE LOCATIONS SHALL BE DETERMINED BY THE PUMP SUPPLIER BASED ON PUMP FRAME AND MOTOR DIMENSIONS. SEE PUMP SPECIFICATION SECTION 13 11 25 FOR ADDITIONAL INFORMATION.
2. MOTOR RISER HEIGHTS VARY. CONTRACTOR SHALL INCLUDE A DIMENSIONED SUB-BASE & MOTOR RISER DRAWING FOR EACH PUMP IN THE PUMP AND MOTOR SUBMITTAL FOR REVIEW.

4 | PUMP SUB-BASE & MOTOR RISER – AURORA 3801 DETAIL VIEW
PL401 NOT TO SCALE



NOTES:
1. PRESSURE GAUGES SHALL BE INSTALLED BY MEANS OF DRILLING & TAPPING PIPE TO BE MONITORED. THE GAUGE SHALL THEN BE THREADED INTO THE PIPE. PROVIDE WITH SNUBBER & PET COCK.
2. GAUGE MAY BE USED WHEREVER CRUCIAL VACUUM OR PRESSURE READINGS ARE ESSENTIAL.
3. 2 1/2" SS CASED LIQUID FILLED PRESSURE GAUGES SHALL HAVE A DIAL RANGE PRESSURE OF 60psi & VACUUM RANGE OF 30" Hg THE MINOR GRADUATIONS SHALL HAVE A PRESSURE OF 2psi & VACUUM OF 2"Hg, 1/4" NPT AS MANUFACTURED BY TRERICE, MARSH, WINTERS OR APPROVED EQUAL.
4. INSTALL GAUGE IN A VERTICAL ORIENTATION.

5 | COMPOUND GAUGE DETAIL VIEW
PL401 NOT TO SCALE

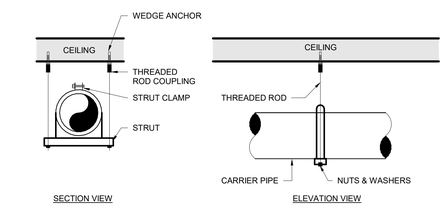
WEIGHT OF WATER FILLED PIPES				
PIPE DIA. (IN.)	OD (IN.)	ID (IN.)	EMPTY PIPE WT. (LBS/LF)	FILLED PIPE TOTAL WT. (LBS/LF)
0.5	0.840	0.526	0.213	0.307
0.75	1.050	0.722	0.289	0.466
1	1.315	0.936	0.424	0.722
1.25	1.660	1.255	0.586	1.122
1.5	1.900	1.476	0.711	1.452
2	2.375	1.913	0.984	2.229
2.5	2.875	2.290	1.500	3.284
3	3.500	2.864	2.010	4.800
4	4.500	3.786	2.938	7.814
6	6.625	5.709	5.610	16.697
8	8.625	7.565	8.522	27.989
10	10.750	9.493	12.635	43.290
12	12.750	11.294	17.384	60.774
14	14.000	12.410	20.852	73.240
16	16.000	14.213	26.810	95.527
18	18.000	16.014	33.544	120.779
20	20.000	17.814	107.948	148.995
24	24.000	21.418	156.045	214.278

NOTES:
1. BASIS OF WEIGHT IS +GF+ PVC INDUSTRIAL PIPE: SCH80 WITH A DENSITY OF 91.10 LB/CF
2. SEE POOL PIPE SCHEDULES FOR REQUIRED PIPE SIZES.

7 | WEIGHT OF WATER FILLED PIPES DETAIL VIEW
PL401 NOT TO SCALE

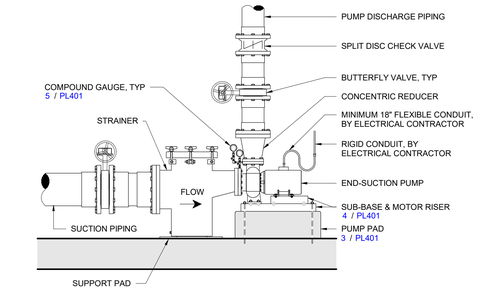
MAX ALLOWABLE SUPPORT SPACING FOR PVC PIPE (IN FT)										
NOMINAL PIPE SIZE	SCHEDULE 40					SCHEDULE 80				
	TEMPERATURE (°F)					TEMPERATURE (°F)				
	60°	80°	100°	120°	140°	60°	80°	100°	120°	140°
1/2"	4.5	4.5	4	2.5	2.5	5	4.5	4.5	3	2.5
3/4"	5	4.5	4	2.5	2.5	5.5	5	4	3	2.5
1"	5.5	5	4.5	3	2.5	6	5.5	5	3.5	3
1 1/4"	5.5	5.5	5	3	3	6	6	5.5	3.5	3
1 1/2"	6	5.5	5	3.5	3	6.5	6	5.5	3.5	3.5
2"	6	5.5	5	3.5	3	7	6.5	6	4	3.5
2 1/2"	7	6.5	6	4	3.5	7.5	7.5	6.5	4.5	4
3"	7	7	6	4	3.5	8	7.5	7	4.5	4
4"	7.5	7	6.5	4.5	4	9	8	7.5	5	4.5
6"	8.5	8	7.5	5	4.5	10	9.5	9	6	5
8"	9	8.5	8	5	4.5	11	10.5	9.5	6.5	5.5
10"	10	9	8.5	5.5	5	12	11	10	7	6
12"	11.5	10.5	9.5	6.5	5.5	12	11	10	7	6

6 | PIPE SUPPORT SCHEDULE DETAIL VIEW
PL401 NOT TO SCALE



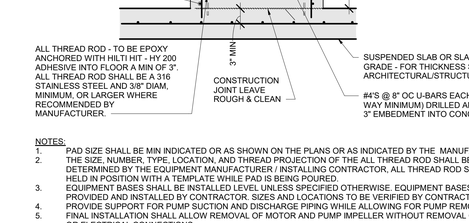
NOTES:
1. DETAILS ARE TYP SUPPORT METHODS AND ARE NOT INCLUSIVE OF ALL SITE CONDITIONS.
2. ALL PIPING SHALL BE RIGIDLY SUPPORTED LATERALLY AND VERTICALLY. SUPPORT SYSTEM SHALL PROVIDE ZERO MOVEMENT IN PIPING DURING ALL OPERATING CONDITIONS.
3. PROVIDE THRUST RESTRAINT AT ALL HORIZONTAL/HORIZONTAL, HORIZONTAL/VERTICAL AND VERTICAL/HORIZONTAL CHANGES IN DIRECTIONS.
4. SEE DIVISION 13 SPECIFICATIONS FOR ADDITIONAL SUPPORT REQUIREMENTS AND MATERIALS.
5. SEE PIPE SUPPORT TABLE ON DRAWINGS.

8 | PIPE SUPPORT DETAIL VIEW
PL401 NOT TO SCALE



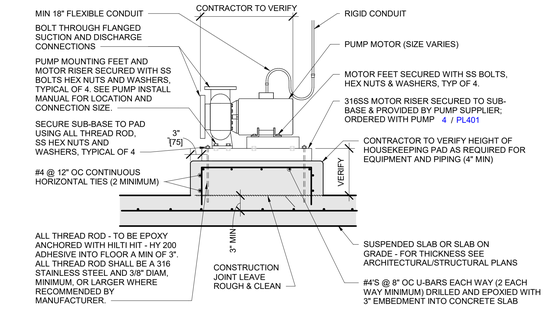
NOTES:
1. REFER TO EQUIPMENT SCHEDULES FOR A STRAINER TYPE AND SIZE.
2. SUPPLY AND INSTALL ECCENTRIC REDUCER ON SUCTION SIDE AS NECESSARY.
3. INSTALL COMPOUND GAUGES USING 1/4" NPT TAPS SUPPLIED ON THE PUMP SUCTION AND DISCHARGE.
4. INSTALL CHECK VALVE PER MANUFACTURER'S RECOMMENDATIONS.

1 | ACTIVITY PUMP INSTALLATION DETAIL VIEW
PL401 NOT TO SCALE



NOTES:
1. REFER TO EQUIPMENT SCHEDULES FOR A STRAINER TYPE AND SIZE.
2. SUPPLY AND INSTALL ECCENTRIC REDUCER ON SUCTION SIDE AS NECESSARY.
3. INSTALL COMPOUND GAUGES USING 1/4" NPT TAPS SUPPLIED ON THE PUMP SUCTION AND DISCHARGE.
4. INSTALL CHECK VALVE PER MANUFACTURER'S RECOMMENDATIONS.

2 | PUMP INSTALLATION - SLIDE DETAIL VIEW
PL401 NOT TO SCALE



NOTES:
1. PAD SIZE SHALL BE MIN INDICATED OR AS SHOWN ON THE PLANS OR AS INDICATED BY THE MANUFACTURER.
2. THE SIZE, NUMBER, TYPE, LOCATION, AND THREAD PROJECTION OF THE ALL THREAD ROD SHALL BE DETERMINED BY THE EQUIPMENT MANUFACTURER / INSTALLING CONTRACTOR, ALL THREAD ROD SHALL BE HELD IN POSITION WITH A TEMPLATE WHILE PAD IS BEING POURED.
3. EQUIPMENT BASES SHALL BE INSTALLED LEVEL UNLESS SPECIFIED OTHERWISE. EQUIPMENT BASES SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR. SIZES AND LOCATIONS TO BE VERIFIED BY CONTRACTOR.
4. PROVIDE SUPPORT FOR PUMP SUCTION AND DISCHARGE PIPING WHILE ALLOWING FOR PUMP REMOVAL.
5. FINAL INSTALLATION SHALL ALLOW REMOVAL OF MOTOR AND PUMP IMPELLER WITHOUT REMOVAL OF PIPING OR ELECTRICAL CONNECTIONS.

3 | PUMP PAD DETAIL VIEW
PL401 NOT TO SCALE

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NO.	DATE	ISSUED / REVISION
1	04/10/2026	BID SET

PROJECT NO. 25294

DRAWING TITLE:
MECHANICAL DETAILS

PL401

4/13/2026 10:40:26 Autodesk Docs://25306.00_City of Troy Aquatic Park Improvements & Maintenance/25294 - City of Troy OH.R24.rvt