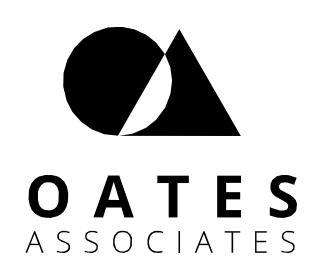
Repair Swimming Pool Missouri School for the Blind St. Louis, Missouri



720 Olive, Suite 700 St. Louis, MO 63101 314.588.8381

Collinsville St. Louis Belleville St. Charle

OWNER:

STATE OF MISSOURI MICHAEL L. PARSON,

GOVERNOR

DEPARTMENT OF

ELEMENTARY & SECONDARY

EDUCATION

PROJECT MANAGEMENT:

OFFICE OF ADMINISTRATION DIVISION OF FACILITIES

MANAGEMENT, DESIGN &

CONSTRUCTION

DESIGNER:

OATES ASSOCIATES

PROJECT NUMBER: E2107-01

ASSET NUMBER:

5012011005

SHEET NUMBER:

July 06, 2022 - 100% ISSUED FOR BID G-001

SHEET 1 OF 45 07/06/2022

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EXP. 12/31/2022



OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF ELEMENTARY & SECONDARY EDUCATION

REPAIR SWIMMING POOL

MISSOURI SCHOOL FOR THE BLIND 3815 MAGNOLIA AVENUE ST. LOUIS, MO

PROJECT # E2107-01 2011 SITE# FACILITY # 5012011005

REVISION:_ DATE:_ **REVISION:** DATE: ISSUE DATE: 07/06/2022

CAD DWG FILE: G-002 DRAWN BY: <u>SLP</u> CHECKED BY: HJC DESIGNED BY: HJC

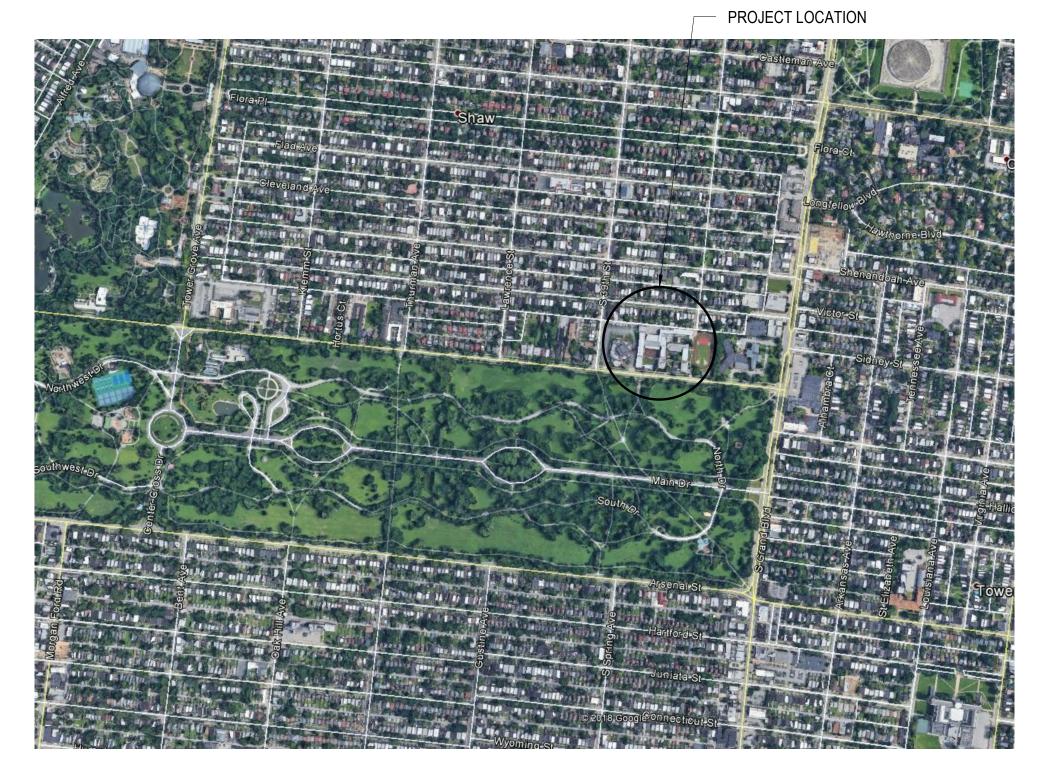
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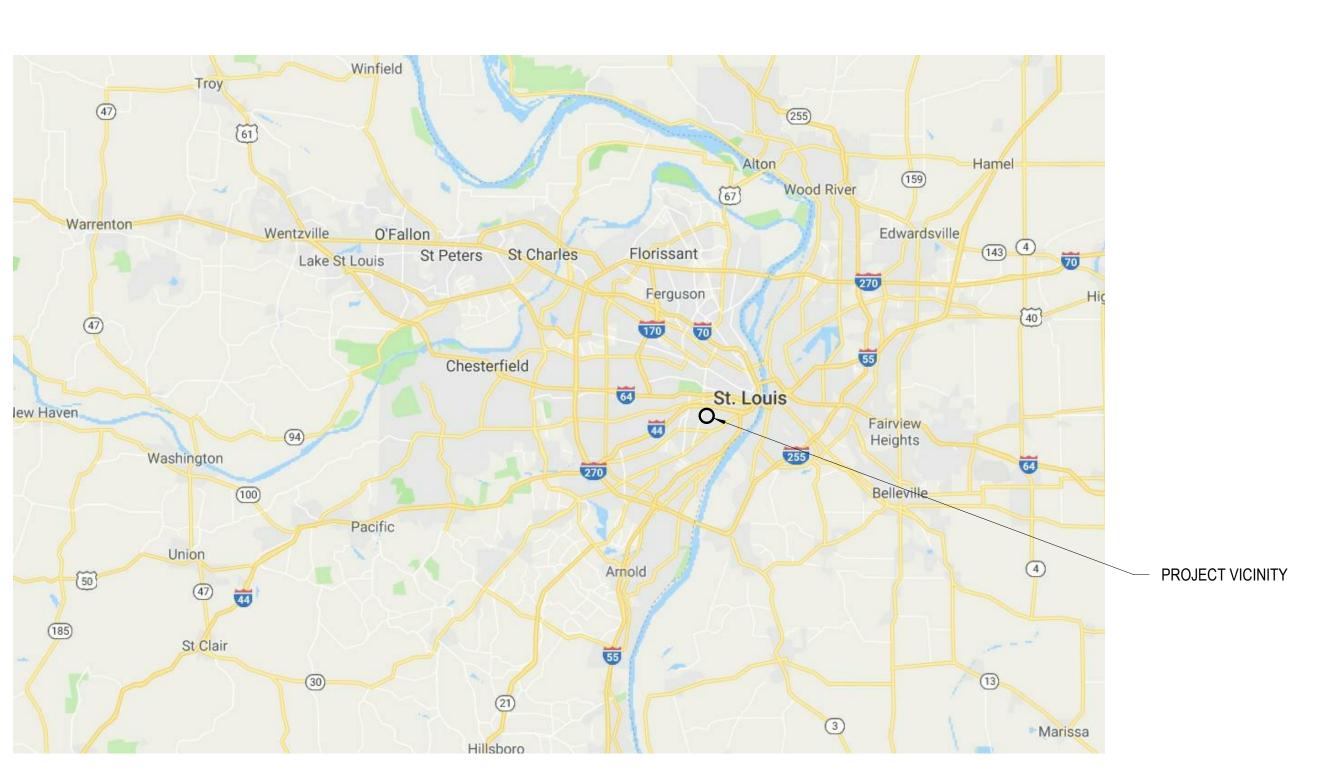
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1 OVERALL SITE PLAN
G-003 SCALE: 1/8" = 1'-0"

LOCATION MAP:



VICINITY MAP:



STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR

EXP. 12/31/2022

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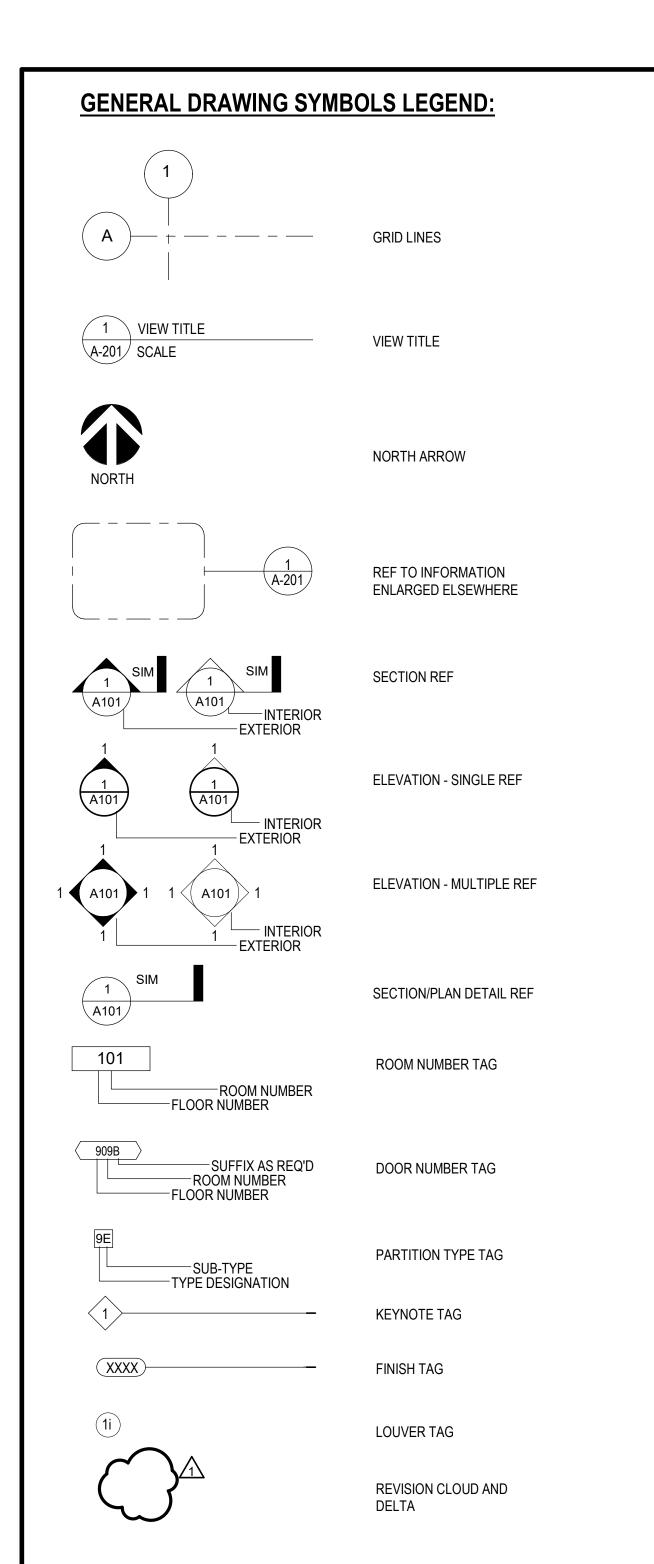
CAD DWG FILE: G-003
DRAWN BY: SLP
CHECKED BY: HJC
DESIGNED BY: HJC

SHEET TITLE:

LOCATION MAPS & KEY PLAN

SHEET NUMBER:

G-003



ARCHITECTURAL SYMBOLS LEGEND: ABBREVIATIONS

ACT

ADA

CJ

CLG

CLR

CONC

CONT

CORR CPU

DIA

DIST

EΑ

EQ

EXIST

EXP

EXT

FD

FIN FLR

FLR

FOF

========	EXISTING PARTITION TO BE REMOVED
	NEW PARTITION
	EXISTING WINDOW FRAMING SYSTEM TO REMAIN
	EXISTING DOOR, FRAME, AND HARDWARE TO REMAIN
	EXISTING DOOR, FRAME, AND HARDWARE TO BE REMOVED
	NEW OR RELOCATED DOOR, FRAME, AND HARDWARE
REFLECTE	D CEILING SYMBOLS LEGEND:
E	KISTING/NEW SUSPENDED CEILING GRID SYSTEM
1 1	KISTING SUSPENDED CEILING GRID YSTEM TO BE REMOVED
E)	KISTING/NEW GYPSUM BOARD CEILING

EXISTING GYPSUM BOARD

CEILING TO BE REMOVED

EXISTING PLASTER CEILING

EXISTING PLASTER CEILING

EXISTING 2'x4' LIGHT FIXTURE

EXISTING 2'x4' LIGHT FIXTURE

TO BE REMOVED OR REUSED

REUSED 2'x4' LIGHT FIXTURE

EXISTING 2'x2' LIGHT FIXTURE

EXISTING 2'x2' LIGHT FIXTURE

TO BE REMOVED OR REUSED

REUSED 2'x2' LIGHT FIXTURE

EXISTING SURFACE MOUNTED LIGHT

EXISTING SURFACE MOUNTED LIGHT

NEW SURFACE MOUNTED LIGHT FIXTURE

NEW 2'x2' LIGHT FIXTURE

FIXTURE TO BE REMOVED

FIXTURE TO REMAIN

NEW 2'x4' LIGHT FIXTURE

TO BE REMOVED

EXISTING PARTITION TO REMAIN

DISABILITIES ACT GC GENERAL CONTRACTOR **ADJUSTABLE** GYP BD GYPSUM BOARD ABOVE FINISHED FLOOR AFF **ALTERNATE** ALUMINUM APPROX APPROXIMATE(LY) **HOLLOW CORE** ARCHITECT(URAL) HANDICAP(PED) **HIGH-DEFINITION** MULTIMEDIA INTERFACE HARDWARE **BOARD HOLLOW METAL** BLDG BUILDING **HORIZONTAL** BLKG BLOCKING HOUR HEIGHT C/L CENTERLINE CONTRACTOR INTERN CODE FURNISHED, CONTRACTOR INSTALLED INCLU

ACOUSTICAL CEILING TILE

AMERICANS WITH

CHARACTOR

CEILING

CONCRETE

DIMENSION(S)

DIGITAL VISUAL

EXPANSION JOINT

ET CETERA (AND SO

ELECTRIC(AL

ELEVATION

EQUIPMENT

FORTH)

EXISTING

EXPANSION

EXTERIOR

FLOOR DRAIN

CABINET

FINISH(ED)

FLOOR

FINISHED FLOOR

FLUORESCENT

FACE OF FINISH

FIRE-RETARDANT TREATED

FIRE EXTINGUISHER

FIRE EXTINGUISHER

EQUAL

INTERFACE

EACH

DISTANCE

CLEAR

CONTROL JOINT

CONTINUE, CONTINUOUS

GΑ

GAUGE

MAXIMUM

MECHANICAL

MECHANICAL

PLUMBING

MECHANICAL

MINIMUM

METAL

MISCELLANEOUS

NOT IN CONTRACT

NOT TO SCALE

ON CENTER

OWNER FURNISHED,

OWNER FURNISHED,

OWNER INSTALLED

OPPOSITE HAND

OPENING

OPPOSITE

CONTRACTOR INSTALLED

MISC

NIC

NTS

OC

OFCI

OPG

OPP

MTL

ELECTRICAL, AND

ELECTRICAL, PLUMBING,

AND FIRE PROTECTION

INSUL

INT

GALVANIZED

	REQ REV	REQUIRED REVISION
INTERNATIONAL BUILDING CODE INCLUDE(D)	<u>S</u> sc	SOLID CORE
INSULATION INTERIOR	SCHED SF SIM	SOLID CORE SCHEDULE SQUARE FOOT (FEET) SMILAR
JOINT	SPEC SQ SQ FT STL SUSP	SPECIFICATION SQUARE SQUARE FOOT (FEET) STEEL SUSPEND(ED)

PLAM

PSF

PTN

PWD

QTY

REINF

PLASTIC LAMINATE

FOOT (FEET)

PAINT(ED)

PARTITION

PLYWOOD

QUANTITY

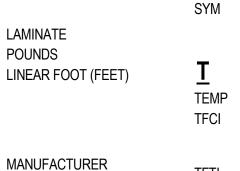
RESILIENT BASE

REFERENCE

REINFORCE(D)

POUNDS PER SQUARE

CORRIDOR	JT	JOINT
COMPUTER		
CERAMIC TILE		
	<u>L</u>	
	LAM	LAMINA
	LBS	POUNE
DIAMETER	LF	LINEAF

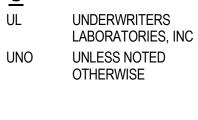


TFCI	TENANT(CLIENT)
	FURNISHED,
	CONTRACTOR INSTALLED
TFTI	TENANT (CLIENT)
	FURNISHÈD, TENANT
	(CLIENT) INSTALLED
TOS	TOP OF STRUCTURE
TOW	TOP OF WALL
TYP	TYPICAL

TOP OF WALL TYPICAL	

SYMMETRICAL

TEMPERED



<u>V</u>	
VERT	VERTICAL
VIF	VERIFY IN FIELD
VWC	VINYL WALL COVERI

VERIFY IN FIELD
VINYL WALL COVERING

<u>W</u>		
W/	WITH	
W/O	WITHOUT	
WC	WATER CLOSET	

WOOD

WD

GENERAL NOTES: ARCHITECTURAL

- WHERE WORK OR EQUIPMENT IS INDICATED AS 'NOT IN CONTRACT (NIC)' IN THE DOCUMENTS, SUCH WORK OR EQUIPMENT SHALL BE PROVIDED OUTSIDE THE CONTRACT SCOPE REPRESENTED IN THESE DOCUMENT. THE CONTRACTOR SHALL COORDINATE THEIR WORK WITH NIC ITEMS AND COOPERATE TO AFFECT THE IMPLEMENTATION OF SUCH WORK OR INSTALLATION.
- DETAILS NOT SHOWN ARE TO BE SIMILAR IN CHARACTER TO THOSE DRAWN. WHERE SPECIFIC DIMENSIONS, DETAILS OR DESIGN INTENT CANNOT BE DETERMINED THE CONTRACTOR IS TO OBTAIN CLARIFICATION FROM THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
- DO NOT SCALE DRAWINGS. DIMENSIONS GOVERN. LARGE SCALE DETAILS GOVERN OVER SMALL SCALE.
- WHERE EXISTING WALLS, PARTITIONS, COLUMNS, FLOORS, BULKHEADS, SURFACES, OR FINISHES ARE REMOVED OR PARTIALLY DEMOLISHED, EACH TRADE IS RESPONSIBLE FOR PATCHING OR REFINISHING OF EXISTING CONSTRUCTION REQUIRED BY THAT TRADE'S WORK ON THE PROJECT. THIS WORK MUST BE DONE IN A MANNER WHICH WILL ACCEPT NEW FINISHES.
- ALL NEW, EXISTING, AND MODIFIED PARTITIONS TO RECEIVE A LEVEL FOUR (4) DRYWALL FINISH PRIOR TO APPLICATION OF PAINT TO SURFACE TO AVOID PAINT FLASHING. WALL FINISH LEVEL BASED ON GA-214-17 "RECOMMENDED LEVELS OF GYPSUM BOARD FINISH." REFER TO PARTITION TYPES FOR ADDITIONAL INFORMATION.
- PARTITIONS ARE DIMENSIONED TO FACE OF PARTITION UNLESS NOTED OTHERWISE
- ALL MATERIALS USED IN FIRE-RATED ASSEMBLIES SHALL BE APPROVED BY UL OTHER RECOGNIZED STANDARD FOR USE IN SUCH ASSEMBLIES.

GENERAL NOTES: ARCHITECTURAL (CONT)

- ALL FIRESTOP SYSTEMS TO MEET UL TESTED SYSTEMS. SYSTEMS MUST BE SUBMITTED TO AND APPROVED BY ARCHITECT PRIOR TO INSTALLATION. GC IS TO KEEP A COPY OF ALL APPROVED SYSTEMS ON SITE FOR DURATION OF PROJECT. ALL INSTALLED SYSTEMS MUST BE LABELED AND DOCUMENTED. DOCUMENTATION IS TO BE SUBMITTED TO OWNER AND ARCHITECT UPON COMPLETION OF THE PROJECT.
- PROVIDE THROUGH PENETRATION FIRESTOP SYSTEMS FOR ALL ITEMS PENETRATING FIRE-RATED ASSEMBLIES. PENETRATIONS TO BE DESIGNED, TESTED, AND FIRE-RESISTANCE RATED TO RESIST FOR A PRESCRIBED PERIOD OF TIME THE SPREAD OF FIRE THROUGH PENETRATIONS. PROVIDE UL-LISTED ASSEMBLIES AS REQUIRED.
- PROVIDE AND INSTALL ADA COMPLIANT BUILDING STANDARD FIRE EXTINGUISHERS AS REQUIRED BY AND IN ACCORDANCE WITH NFPA LIFE SAFETY CODE AND LOCAL BUILDING FIRE SAFETY CODE AND REGULATIONS. CONFIRM QUANTITY AND LOCATION WITH ARCHITECT.
- PREPARE EXISTING FLOOR SLABS FOR INSTALLATION OF SPECIFIED FLOOR FINISHES. PREPARE EXISTING FLOOR SLABS TO BE SMOOTH AND LEVEL BEFORE INSTALLATION OF FINISH FLOOR MATERIALS, WITH MAXIMUM DEVIATION OF 1/4" IN 10'-0". NO FLOOR PREPARATION ALLOWANCES WILL BE ACCEPTED. GC AND SUBCONTRACTORS TO VISUALLY INSPECT EXISTING FLOOR SLAB CONDITIONS TO ENSURE PROPER FLOOR PREPARATION IS INCLUDED IN PROPOSAL
- 13. ALL BUILDING ACCESSIBILITY IS DESIGNED AND SHALL BE IN ACCORDANCE WITH IBC, ANSI 117.1 AND ADAAG, WHICHEVER STANDARD PROVIDES THE GREATEST DEGREE OF ACCESSIBILITY FOR ANY GIVEN BUILDING ELEMENT.

GENERAL NOTES: ARCHITECTURAL (CONT)

- FOR ALL DOORS HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. LEVER- OPERATED MECHANISMS, PUSH-TYPE MECHANISMS, AND U-SHAPED HANDLES ARE ACCEPTABLE DESIGNS. WHEN SLIDING DOORS ARE FULLY OPEN, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES. HARDWARE REQUIRED FOR ACCESSIBLE DOOR PASSAGE SHALL BE MOUNTED NO HIGHER THAN 48" AFF.
- ACCESSIBLE DOORS SHALL HAVE A LANDING ON BOTH SIDES. LANDINGS SHALL BE NO MORE THAN 1/2 INCH BELOW THE TOP OF THE DOOR THRESHOLD.
- TO PREVENT GALVANIC ACTION BETWEEN DISSIMILAR METALS, WHERE DISSIMILAR METALS COME INTO CONTACT WITH EACH OTHER, WHERE METALS COME INTO CONTACT WITH WOOD, CONCRETE OR MASONRY, WHERE RUNOFF FROM A METAL SURFACE FLOWS OVER A DISSIMILAR METAL, OR WHERE NON-PASSIVE METAL FASTENERS PENETRATE DISSIMILAR METALS, BREAK THE CONTACT BETWEEN MATERIALS WITH A HEAVY WATERPROOF PAPER OR FELT, A HEAVY COAT OF BITUMINOUS COATING OR AN ELASTOMERIC FILM UNLESS OTHER SEPARATOR IS INDICATED IN THE CONTRACT DOCUMENTS.

STATE OF MISSOURI MICHAEL L. PARSON. **GOVERNOR**

MISSOURI STATE CERITIFICATE OF AUTHORITY #00246198



MICHAEL J. RATLIFF, MO #6855



OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF ELEMENTARY & SECONDARY EDUCATION

REPAIR SWIMMING POOL

MISSOURI SCHOOL FOR THE BLIND 3815 MAGNOLIA AVENUE ST. LOUIS, MO

PROJECT # E2107-01 2011 SITE# FACILITY # 5012011003, 501201104

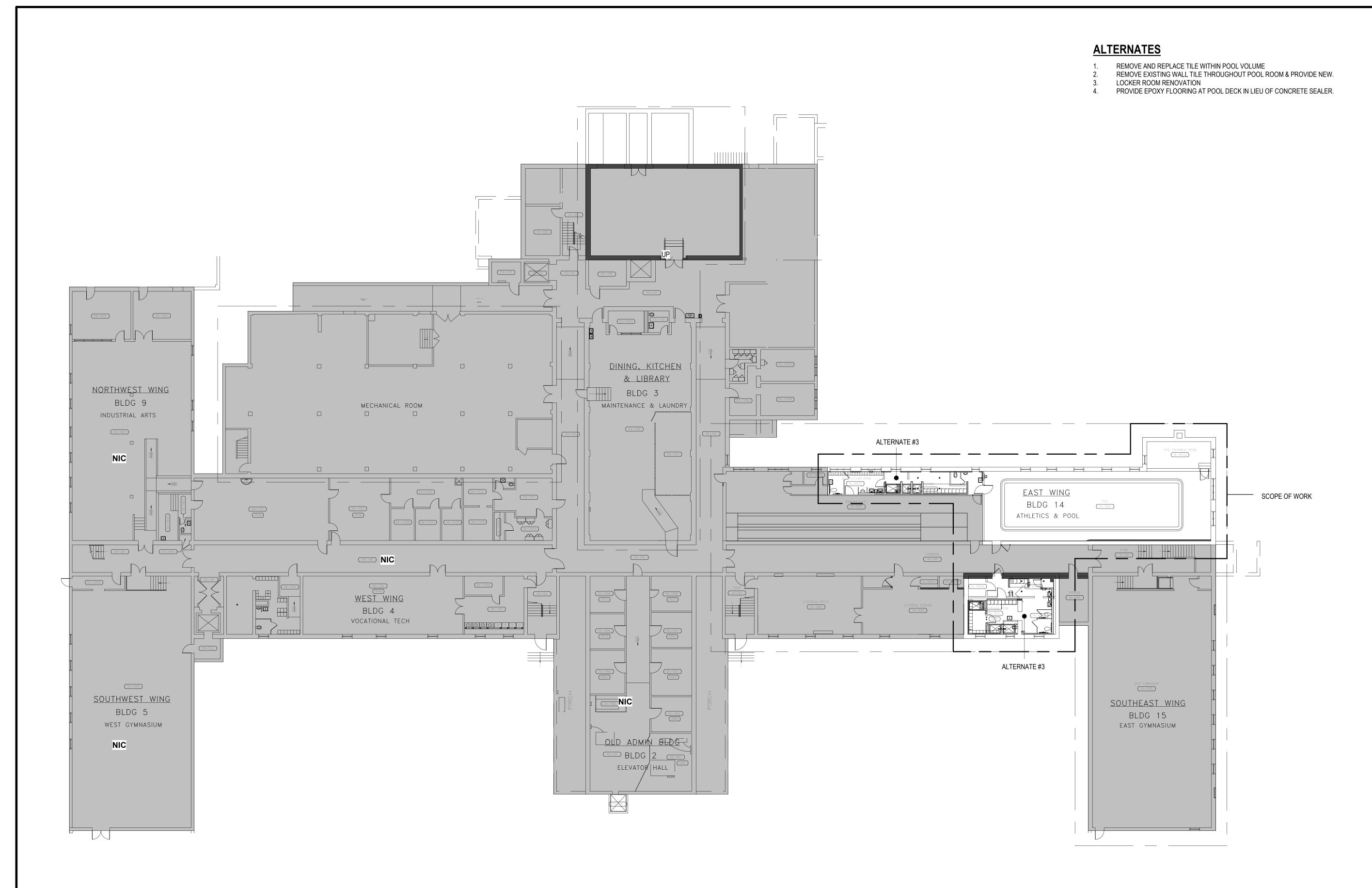
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ISSUE DATE:	07/06/22

CAD DWG FILE:	A-001
DRAWN BY:	AR
CHECKED BY:	MR
DESIGNED BY:	WD

SHEET TITLE:

ARCHITECTURAL GENERAL NOTES

SHEET NUMBER:







MISSOURI STATE CERITIFICATE OF AUTHORITY #00246198



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REVISION:

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DATE:

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DATE:

ISSUE DATE:

07/06/22

CAD DWG FILE: A-002
DRAWN BY: AR
CHECKED BY: MR
DESIGNED BY: WD

SHEET TITLE:

OVERALL REFERENCE PLAN

SHEET NUMBER:

A-002



- REQUIRED CLEAR FLOOR SPACES, CLEARANCE AT FIXTURES, AND TURNING SPACE SHALL BE PERMITTED TO OVERLAP.
- DOORS SHALL NOT SWING INTO THE CLEAR FLOOR SPACE OR CLEARANCE REQUIRED FOR ANY FIXTURE. DOORS SHALL BE PERMITTED TO SWING INTO THE REQUIRED TURNING SPACE. EXCEPTIONS: 1. DOORS TO A TOILET ROOM OR BATHING ROOM FOR A SINGLE OCCUPANT ACCESSED ONLY THROUGH A PRIVATE OFFICE AND NOT FOR COMMON USE OR PUBLIC USE SHALL BE PERMITTED TO SWING INTO THE CLEAR FLOOR SPACE OR CLEARANCE PROVIDED THE SWING OF THE DOOR CAN BE REVERSED. 2. WHERE THE TOILET ROOM OR BATHING ROOM IS FOR INDIVIDUAL USE AND A CLEAR FLOOR SPACE OF 30"x48" IS PROVIDED WITHIN THE ROOM BEYOND THE ARC OF THE DOOR SWING, DOORS SHALL BE PERMITTED TO SWING INTO THE CLEAR FLOOR SPACE OR CLEARANCE REQUIRED FOR ANY FIXTURE.
- MIRRORS LOCATED ABOVE LAVATORIES OR COUNTERTOPS SHALL BE INSTALLED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE 40" MAX ABOVE THE FINISH FLOOR OR GROUND. MIRRORS NOT LOCATED ABOVE LAVATORIES OR COUNTERTOPS SHALL BE INSTALLED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE 35" MAX ABOVE THE FINISH FLOOR OR GROUND.
- COAT HOOKS & SHELVES SHALL BE LOCATED 40" MIN AND 48" MAX ABOVE THE FINISH FLOOR. WHERE 6 OR MORE STALLS ARE PROVIDED, 1 SHALL BE SIDE TRANSFER STALL AS SHOWN, AND 1

SHALL BE A 36" WIDE SEMI-AMBULATORY STALL. WATER CLOSETS AND TOILET COMPARTMENTS

THE REQUIRED CLEARANCE AROUND THE WATER CLOSET SHALL BE PERMITTED TO OVERLAP THE WATER CLOSET, ASSOCIATED GRAB BARS, DISPENSERS, SANITARY NAPKIN DISPOSAL UNITS, COAT HOOKS, SHELVES, ACCESSIBLE ROUTES, CLEAR FLOOR SPACE AND CLEARANCES REQUIRED AT OTHER FIXTURES, AND THE TURNING SPACE. NO OTHER FIXTURES OR OBSTRUCTIONS SHALL BE LOCATED WITHIN THE REQUIRED WATER CLOSET CLEARANCE.

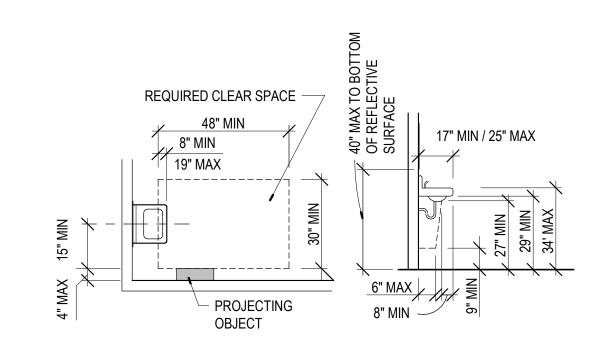
FLUSH VALVES

FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC. HAND OPERATED FLUSH CONTROLS SHALL COMPLY WITH REACH RANGES AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 LBS MAX. WHERE AN ADMINISTRATIVE AUTHORITY REQUIRES FLUSH CONTROLS FOR FLUSH VALVES TO BE LOCATED IN A POSITION THAT CONFLICTS WITH THE LOCATION OF THE REAR GRAB BAR, THEN THE REAR GRAB BAR SHALL BE PERMITTED TO BE SPLIT OR SHIFTED TO THE OPEN SIDE OF THE TOILET

\A-003/ NOT TO SCALE

TOILET TISSUE DISPENSERS SHALL BE LOCATED 7" MIN & 9" MAX FROM FRONT OF WATER CLOSET TO CENTERLINE OF DISPENSER. OUTLET OF DISPENSER SHALL BE 15" MIN & 48" MAX ABOVE FINISH FLOOR AND SHALL NOT BE LOCATED BEHIND GRAB BARS.

603; 604: TOILET COMPARTMENTS



WHEELCHAIR

ACCESSIBLE

WATER CLOSETS

CLEAR

SIZE OF CLEARANCE AT

WATER CLOSETS

URINALS:

30"

MIN CLEAR

- PROVIDE STALL-TYPE OR WALL-HUNG URINALS WITH AN ELONGATED RIM AT 17" MAX AFF. FLUSH CONTROLS TO COMPLY WITH REACH RANGE REQUIREMENTS PER 2010 ADA SECTIONS 308 & 309 - TO BE 44" MAX AFF.
- WHERE URINALS ARE PROVIDED AT LEAST ONE SHALL HAVE A 30"x48" MIN CLEAR SPACE IN FRONT OF URINAL 36" CLEAR WIDTH REQUIRED WHERE ALCOVE DEPTH IS

3 605: URINALS \A-003/ NOT TO SCALE

FINISH FLOOR.

GREATER THAN 24".

LAVATORIES:

- PROVIDE A CLEAR SPACE 30"x48" IN FRONT OF THE LAVATORY. THE CLEAR SPACE MAY EXTEND A MAX OF 19" INTO KNEE AND TOE SPACE UNDER LAVATORY.
- INSULATE OR CONFIGURE HOT WATER SUPPLY AND DRAIN PIPING UNDER LAVATORIES TO PREVENT CONTACT.
- FAUCET CONTROLS AND OPERATING MECHANISMS ARE REQUIRED TO BE OPERABLE WITH ONE HAND AND CANNOT REQUIRE GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS IS NOT TO EXCEED 5 LBF.

4 606: LAVATORIES

A-003 NOT TO SCALE

BACK WALL GRAB BARS SHALL BE INSTALLED AT THE SAME HEIGHT ABOVE THE SIDE SIDE WALL A FOLDING OR NON-FOLDING SEAT SHALL BE PROVIDED IN TANSFER

LODGING GUEST ROOMS. IN STANDARD ROLL-IN TYPE SHOWERS WITHOUT SEATS, THE SHOWER HEAD AND OPERABLE PARTS CAN BE LOCATED ON ANY OF THE THREE WALLS OF THE SHOWER WITHOUT ADVERSELY AFFECTING ACCESSIBILITY.

TYPE SHOWER COMPARTMENTS. A FOLDING SEAT SHALL BE

PROVIDED IN ROLL-IN TYPE SHOWERS REQUIRED IN TRANSIENT

WHERE MULTIPLE GRAB BARS ARE USED, REQUIRED HORIZONTAL

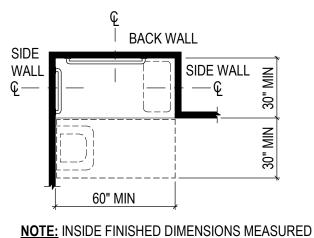
A SHOWER SPRAY UNIT WITH A HOSE 59" LONG MIN THAT CAN BE USED BOTH AS A FIXED-POSITION SHOWER HEAD AND AS A HAND-HELD SHOWER SHALL BE PROVIDED. THE SHOWER SPRAY UNIT SHALL HAVE AN ON/OFF CONTROL WITH A NON-POSITIVE SHUT-OFF IF AN ADJUSTABLE-HEIGHT SHOWER HEAD ON A VERTICAL BAR IS USED, THE BAR SHALL BE INSTALLED SO AS NOT TO OBSTRUCT THE USE OF GRAB BARS.

A FIXED SHOWER HEAD LOCATED AT 48" MAX ABOVE THE SHOWER FINISH FLOOR SHALL BE PERMITTED INSTEAD OF A HAND-HELD SPRAY UNIT IN FACILITIES THAT ARE NOT MEDICAL CARE OR LONG-TERM CARE FACILITIES, TRANSIENT LODGING GUEST ROOMS, OR

RESIDENTIAL DWELLING UNITS. THRESHOLDS IN ROLL-IN TYPE SHOWER COMPARTMENTS SHALL BE 1/2" HIGH MAX IN ACCORDANCE WITH 303. IN TRANSFER TYPE SHOWER COMPARTMENTS, THRESHOLDS 1/2" HIGH MAX SHALL BE BEVELED, ROUNDED OR VERTICAL.

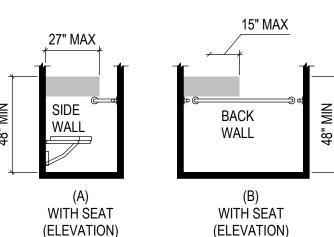
A THRESHOLD 2" HIGH MAX SHALL BE PERMITTED IN TRANSFER TYPE SHOWER COMPARTMENTS IN EXISTING FACILITIES WHERE PROVISION OF A 1/2" HIGH THRESHOLD WOULD DISTURB THE STRUCTURAL REINFORCEMENT OF THE FLOOR SLAB.

ENCLOSURES FOR SHOWER COMPARTMENTS SHALL NOT OBSTRUCT CONTROLS, FAUCETS, AND SHOWER SPRAY UNITS OR OBSTRUCT TRANSFER FROM WHEELCHAIRS ONTO SHOWER SEATS.

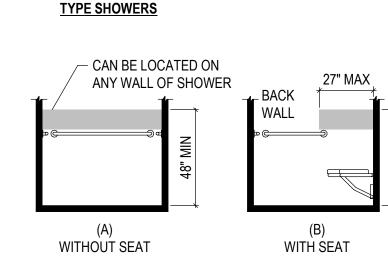


STANDARD ROLL-IN TYPE SHOWER **COMPARTMENT SIZE AND CLEARANCE**

AT THE CENTER POINTS OF OPPOSING SIDES



SIDE WALL (ELEVATION) TRANSFER TYPE SHOWER COMPARTMENT CONTROL LOCATION



SIDE

GRAB BARS FOR STANDARD ROLL-IN

\17" MIN - 19" MAX

REAR WALL GRAB

BAR AT WATER

CLOSETS

60" MIN

CLEAR

ADULT WALL-HUNG

WATER CLOSET

TOE CLEARANCE

TO TOP OF SEAT

7" MIN -9" MAX

42" MAX

∠TOE CLEARANCE

CLEAR

ADULT FLOOR-MOUNTED

WATER CLOSET

CLEARANCE

THE GRIPPING SURFACE.

STRUCTURE.

A-003 NOT TO SCALE

BACK WALL

WITHOUT SEAT

15" MAX

SIDE

AT GRAB BAR

GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.

<u>DISPENSER</u>

OUTLET LOCATION

DOOR

LOCATION~

4" MAX

WHEELCHAIR ACCESSIBLE

TOILET COMPARTMENT DOORS

1-1/2" -

1-1/2"

GRAB BARS SHALL BE INSTALLED IN A HORIZONTAL POSITION, 33" MIN AND 36" MAX AFF MEASURED TO THE TOP OF

FORCE OF 250 LBS IS APPLIED AT ANY POINT ON THE GRAB BAR, FASTENER, MOUNTING DEVICE, OR SUPPORTING

ALLOWABLE STRESSES SHALL NOT BE EXCEEDED FOR MATERIALS USED WHEN A VERTICAL OR HORIZONTAL

IF GRAB BARS ARE MOUNTED ADJACENT TO WALL, THE SPACE BETWEEN WALL AND BAR IS TO BE 1-1/2".

PROVIDE MIN CLEARANCE 1-1/2" BELOW AND 12" ABOVE WALL MOUNTED GRAB BARS.

VERTICAL GRAB BAR IS REQUIRED PER 2009 ANSI A117.1, SECTION 609.4

\ 604.5; 609: TOILET COMPARTMENT GRAB BARS

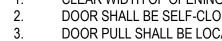
T BACK WALL

WITH SEAT

PROJECTIONS AT

GRAB BARS

STANDARD ROLL-IN TYPE SHOWER **COMPARTMENT CONTROL LOCATION**



HANDICAPPED COMPARTMENT DOOR:

- CLEAR WIDTH OF OPENING SHALL BE 32". DOOR SHALL BE SELF-CLOSING
- DOOR PULL SHALL BE LOCATED ON BOTH SIDES OF DOOR. OPERABLE PARTS OF HARDWARE SHALL BE 34" MIN TOILET COMPARTMENT DOORS SHALL NOT SWING INTO THE REQUIRED MIN AREA OF THE COMPARTMENT

ACCESSIBILITY - TOILET ROOM NOTES

A-003 NOT TO SCALE

AMBULATORY ACCESSIBLE TOILET COMPARTMENT

1-1/4" - 1-1/2" 1-1/2"

GRAB BAR

<u>SPACING</u>

CLEAR

TOILET COMPARTMENT

TOE CLEARANCE

1-1/2" MIN

CIRCULAR CROSS-SECTION

1-1/4" - 2"

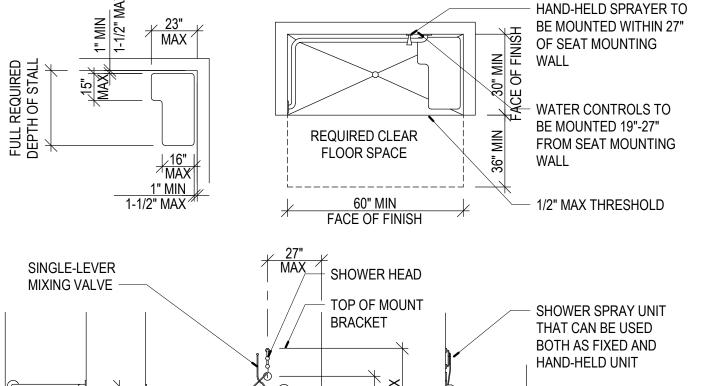
PROJECTING GRAB BARS

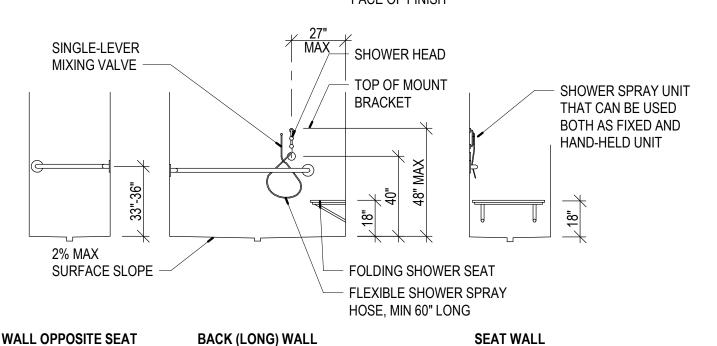
GRAB BARS IN TOILET FACILITIES AND BATHING FACILITIES SHALL COMPLY

- GRAB BARS SHALL BE INSTALLED IN A HORIZONTAL POSITION, 33" MIN AND 36" MAX AFF MEASURED TO THE TOP OF THE GRIPPING SURFACE.
- GRAB BARS AND ANY WALL OR OTHER SURFACES ADJACENT TO GRAB BARS SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS AND SHALL HAVE ROUNDED EDGES.
- GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS. GRAB BARS SHALL BE INSTALLED IN ANY MANNER THAT PROVIDES A GRIPPING SURFACE AT THE SPECIFIED LOCATIONS AND THAT DOES NOT OBSTRUCT THE
- REQUIRED CLEAR FLOOR SPACE. ALLOWABLE STRESSES SHALL NOT BE EXCEEDED FOR MATERIALS USED WHEN A VERTICAL OR HORIZONTAL FORCE OF 250 LBS IS APPLIED AT ANY POINT ON THE GRAB BAR, FASTENER, MOUNTING DEVICE, OR SUPPORTING STRUCTURE.

√ 609: ACCESSIBLE GRAB BARS

A-003 NOT TO SCALE





\ 608: ACCESSIBILITY DETAIL - SHOWER

A-003 NOT TO SCALE

STATE OF MISSOURI MICHAEL L. PARSON. **GOVERNOR**

MISSOURI STATE CERITIFICATE OF AUTHORITY #00246198



MICHAEL J. RATLIFF, MO #6855



OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF ELEMENTARY & SECONDARY EDUCATION

REPAIR SWIMMING POOL

MISSOURI SCHOOL FOR THE BLIND 3815 MAGNOLIA AVENUE

PROJECT # E2107-01 2011 SITE# FACILITY # 5012011003, 501201104

ST. LOUIS, MO

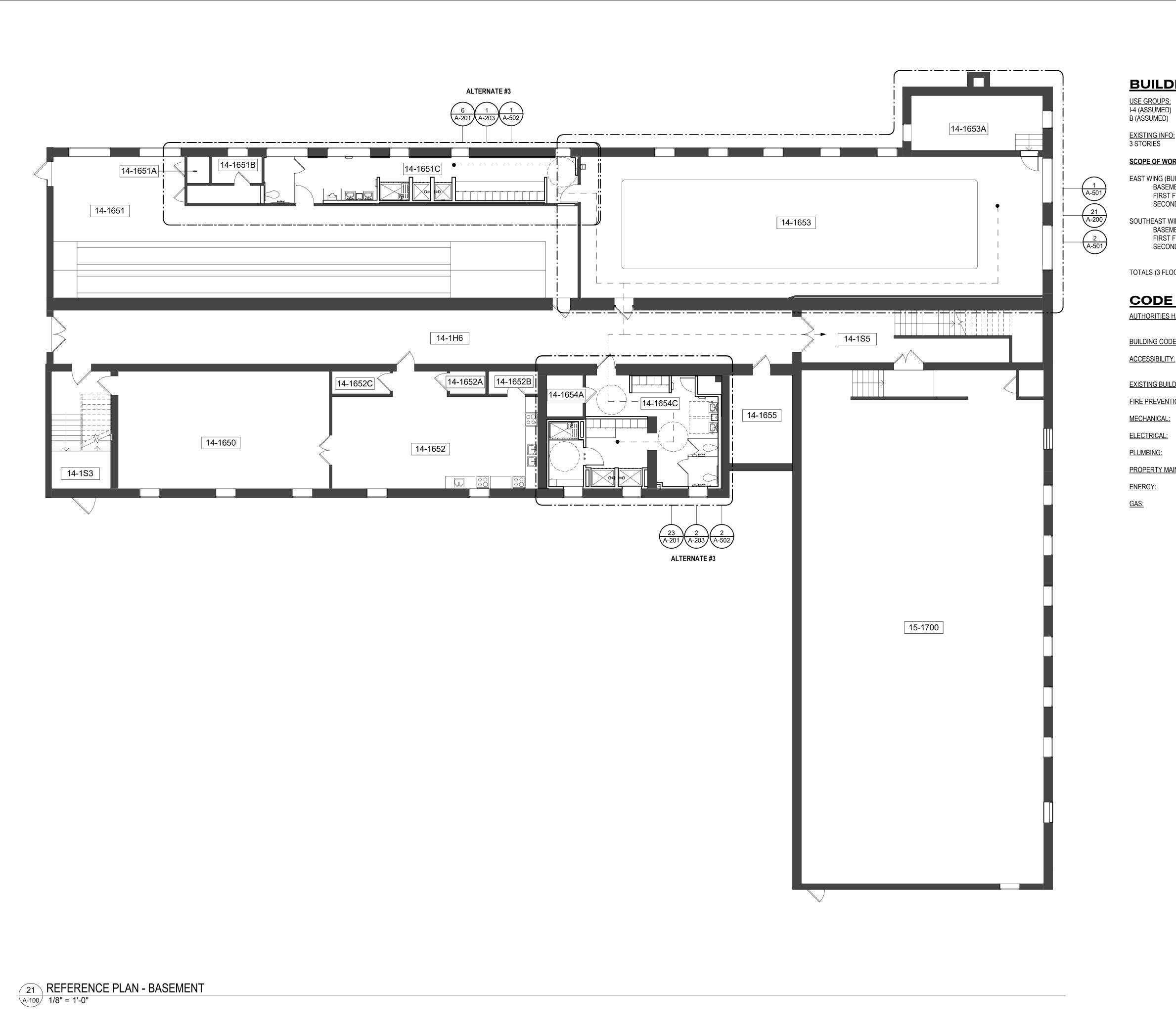
REVISION: DATE **REVISION:** DATE **REVISION:** DATE: ISSUE DATE: 07/06/22

CAD DWG FILE: A-003 DRAWN BY: CHECKED BY: MR DESIGNED BY: WD

SHEET TITLE:

ACCESSIBILITY LEGEND -**RESTROOMS**

SHEET NUMBER:



BUILDING INFORMATION

<u>USE GROUPS:</u> I-4 (ASSUMED)

INSTITUTIONAL, DAY-CARE FACILITY B (ASSUMED) BUSINESS

FULLY SPRINKLERED 3 STORIES

SCOPE OF WORK:

EAST WING (BUILDING 14): BASEMENT:

9,240 GSF FIRST FLOOR: 9,490 GSF 9,290 GSF SECOND FLOOR:

SOUTHEAST WING (BUILDING 15): BASEMENT: 3,900 GSF FIRST FLOOR: 3,645 GSF SECOND FLOOR: 3,900 GSF

TOTALS (3 FLOORS): 39,465 SF

CODE INFORMATION

<u>AUTHORITIES HAVING JURISDICTION:</u> STATE OF MISSOURI

BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE

AMERICANS WITH DISABILITIES ACT ACCESSIBILITY: ICC/ANSI A117.1, REFERENCED BY BUILDING CODE

EXISTING BUILDING CODE: 2018 INTERNATIONAL EXISTING BUILDING CODE

11,445 SF

FIRE PREVENTION: 2018 INTERNATIONAL FIRE CODE

2018 INTERNATIONAL MECHANICAL CODE MECHANICAL: **ELECTRICAL**: 2017 NATIONAL ELECTRICAL CODE

PLUMBING: 2009 UNIFORM PLUMBING CODE

PROPERTY MAINTENANCE: 2018 INTERNATIONAL PROPERTY MAINTENANCE CODE

2018 INTERNATIONAL ENERGY CONSERVATION CODE ENERGY:

GAS: 2018 INTERNATIONAL FUEL GAS CODE

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**

MISSOURI STATE CERITIFICATE OF AUTHORITY #00246198



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REPAIR SWIMMING POOL

MISSOURI SCHOOL FOR THE BLIND 3815 MAGNOLIA AVENUE ST. LOUIS, MO

PROJECT # E2107-01 2011 FACILITY # 5012011003, 501201104

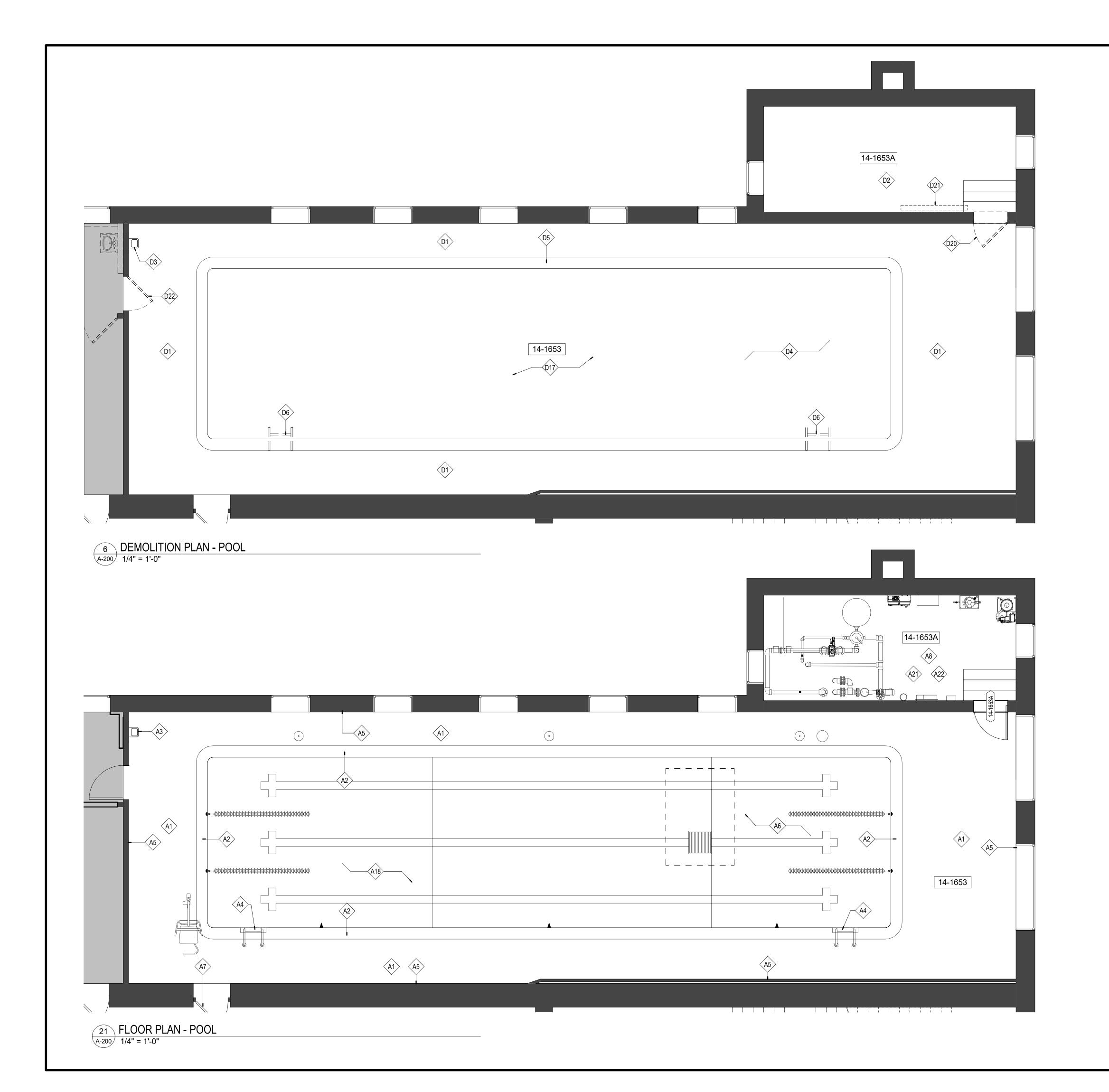
REVISION: REVISION: DATE:_

ISSUE DATE: 07/06/22

CAD DWG FILE: A-100 DRAWN BY: <u>AR</u> CHECKED BY: MR DESIGNED BY: WD SHEET TITLE:

REFERENCE **PLAN**

SHEET NUMBER:



GENERAL NOTES: DEMOLITION

- PROVIDE TEMPORARY BARRICADES AND OTHER FORMS OF PROTECTION AS REQUIRED TO PROTECT OWNER'S AND CLIENT'S PERSONNEL AND GENERAL PUBLIC FROM INJURY DUE TO
- SELECTIVE DEMOLITION WORK. ERECT AND MAINTAIN DUST-PROOF PARTITIONS AND CLOSURES AS REQUIRED TO PREVENT SPREAD OF DUST OR FUMES TO OCCUPIED PORTIONS OF THE BUILDING. PROTECT MECHANICAL
- SYSTEM AS REQUIRED. CONDUCT SELECTIVE DEMOLITION OPERATIONS AND DEBRIS REMOVAL IN A MANNER TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED OR USED FACILITIES.
- PROVIDE BYPASS CONNECTIONS AS NECESSARY TO MAINTAIN CONTINUITY OF SERVICE TO OCCUPIED AREAS OF THE BUILDING.
- REVIEW/COORDINATE SCHEDULE OF WORK TO BE DEMOLISHED WITH BUILDING MANAGEMENT TO
- LIMIT INTERRUPTIONS OF OWNER-OCCUPIED SPACES. MAINTAIN FIRE PROTECTION SERVICES DURING SELECTIVE DEMOLITION.
- LOCATE, IDENTIFY, STUB OFF, AND DISCONNECT UTILITY SERVICES THAT ARE NOT INDICATED TO

COVER AND PROTECT EQUIPMENT AND FIXTURES INDICATED "TO REMAIN" FROM SOILAGE OR

- PERFORM SELECTIVE DEMOLITION WORK IN A SYSTEMATIC MANNER.
- UNO ALL EXISTING PARTITIONS, FIRE EXTINGUISHERS AND CABINETS, MILLWORK, DOORS, HARDWARE, SIDELITES, CLERESTORIES, ETC. TO REMAIN.
- REMOVE ALL HEADERS AT DOOR LOCATIONS WHERE DOORS ARE INDICATED TO BE REMOVED.
- WHERE WALLS OR PARTITIONS ARE TO BE REMOVED, REMOVE OR RELOCATE ALL EXISTING ELECTRICAL WIRING, DATA CABLING, TELEPHONE LINES, CABLE LINES, SATELLITE LINES, CONDUIT, WIRE MOLD, RECEPTACLES AND SWITCH BOXES, ETC. LOCATED WITHIN DEMOLISHED PORTIONS. SALVAGE AND STORE ALL DOORS AND SIDELITES FOR POSSIBLE REUSE. OWNER HAS FIRST
- RIGHT OF REFUSAL ON ALL REMOVED ITEMS AND CONTRACTOR IS RESPONSIBLE FOR DISPOSAL IF OWNER DOES NOT WANT ITEMS. PATCH ALL PENETRATIONS FROM MEP DEMO (CONDUIT, PIPING, ETC. REMOVAL) TO MATCH
- EXISTING ADJACENT CONSTRUCTION.

- **DEMOLITION NOTES: POOL** REMOVE & STORE PORTABLE LIFT.
- REMOVE & ABANDON EXISTING DIVING STAND SUPPORT.

15. SEE PLUMBING DRAWINGS FOR FLOOR DRAIN LOCATIONS.

REMOVE & SALVAGE POOL LADDERS.

ARCH/FINISH NOTES: POOL

- INSTALL DECK ANCHOR AND KIT FOR FIXED LIFT TO COMPLY WITH ADA REGULATIONS.
- ADD NEW DEPTH MARKINGS AND WARNING SIGNS AT POOL DECK.
- CLEAN TILE GROUT AND PATCH REPAIR AS REQUIRED.
- EXISTING ACT CEILING AND LIGHTING TO REMAIN.
- CEILING & LIGHTING NOT INCLUDED IN PROJECT SCOPE. COORDINATE WITH WORK PERFORMED UNDER SEPERATE SCOPE

CP# KEYED NOTES - DEMOLITION

- BASE BID: DEMO / REMOVE POOL DECK & SUBSTRUCTURE TO PERIMETER WALLS. REMOVE PERIMETER WALL TILE BASE
- FINISH AS REQUIRED TO REMOVE & REPLACE POOL DECK. BASE BID: DEMO / REMOVE EXISTING POOL EQUIPMENT. SEE
- ENGINEERING DWGS
- BASE BID: DEMO / REMOVE WATER FOUNTAIN
- BASE BID: TRENCH POOL FLOOR TO PROVIDE ACCESS TO PIPING SYSTEMS - WORK NOTED ON STRUCTURAL, MEP AND POOL DOCUMENTS.
- D5 BASE BID: DEMO / REMOVE EXISTING POOL GUTTER & DECK
- BASE BID: DEMO / REMOVE EXISTING LADDER & ACCESSORIES
- ALTERNATE 1: REMOVE ALL TILE WITHIN POOL VOLUME D17 (BOTTOM AND SIDES)
- BASE BID: DEMO/REMOVE EXISTING DOOR AND FRAME
- DEMO/REMOVE EXISTING SLIDING FIRE DOOR
- ALTERNATE 3: DEMO/REMOVE DOOR AND FRAME

A# KEYED NOTES - ARCHITECTURAL

- BASE BID: NEW CONCRETE POOL DECK W/BRUSHED FINISH INSTALL SEALER. SLOPE TO NEW DECK DRAINS. SEE STRUCTURAL DRAWINGS
- BASE BID: NEW COPING W/INWALL SKIMMERS. SEE **ENGINEERING DWGS**
- BASE BID: NEW WATER FOUNTAIN W/BOTTLE FILLER. ELKAY #EZS8WSLIC OR EQUAL.
- BASE BID: NEW POOL LADDER & ACCESSORIES. SEE **ENGINEERING DRAWINGS.**
- BASE BID: NEW COVE TLE BASE. EXISTING WALL TILE TO REMAIN
- BASE BID: NEW CONCRETE SLAB INFILL PER STRUCTURAL. INSTALL NEW TIL-6 AT BOTTOM, TIL-5 AT LANE MARKERS WHERE OCNCRETE SLAB OCCURS.
- Α7 BASE BID: PAINT EXISTING DOOR & FRAME
- A8 BASE BID: NEW POOL EQUIMENT, SEE ENGINEERING DWGS. ALTERNATE 1: PROVIDE NEW WALL TILE (TIL-1). ENTIRE POOL
- VOLUME (BOTTOM AND SIDES). TIL-3 (LANE MARKERS), TIL-5 (FIELD)
- A21 BASE BID: PROVIDE NEW EPOXY FLOOR AND INTEGRAL BASE
- BASE BID: PAINT EXISTING WALLS THROUGHOUT

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**

MISSOURI STATE CERITIFICATE OF AUTHORITY #00246198



MICHAEL J. RATLIFF, MO #6855



OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF ELEMENTARY & SECONDARY EDUCATION

REPAIR SWIMMING POOL

MISSOURI SCHOOL FOR THE BLIND 3815 MAGNOLIA AVENUE

PROJECT # E2107-01 2011 SITE# FACILITY # 5012011003, 501201104

ST. LOUIS, MO

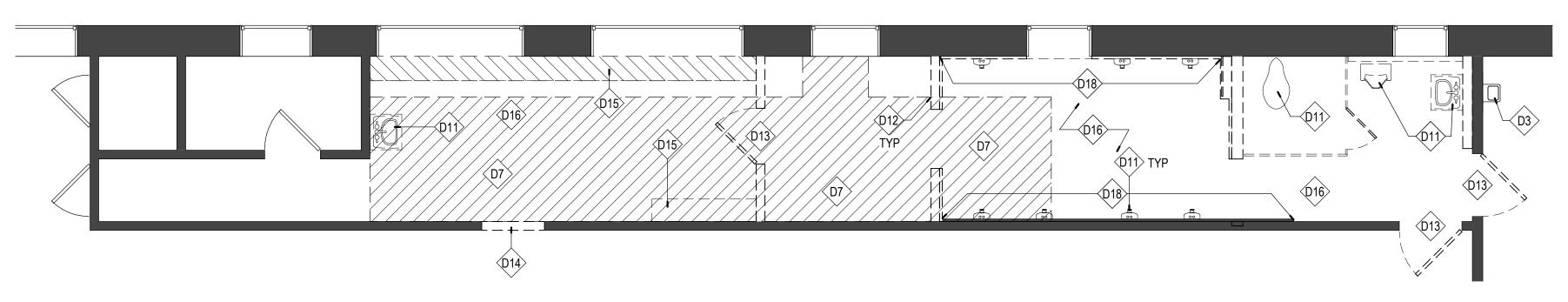
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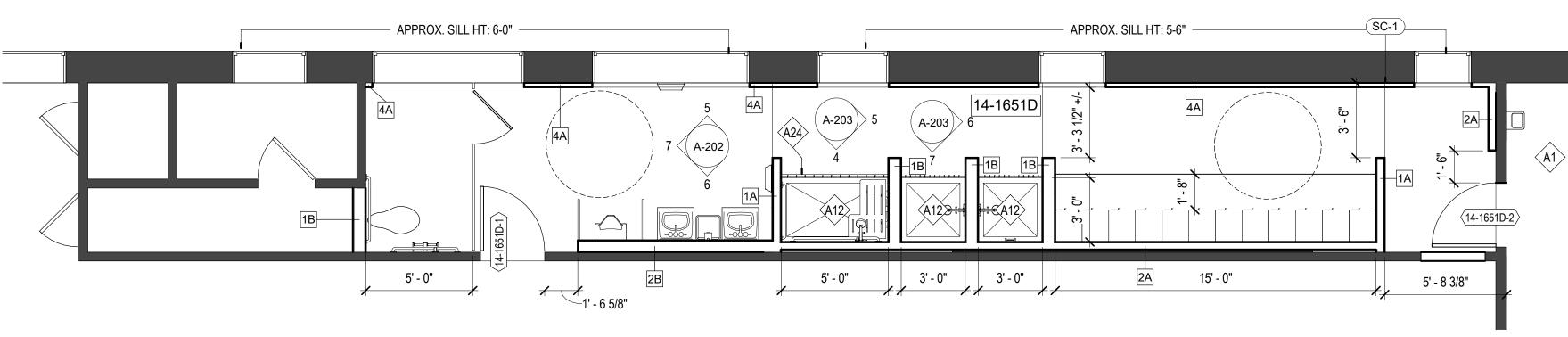
ENLARGED PLANS - POOL

SHEET NUMBER:

SHEET TITLE:

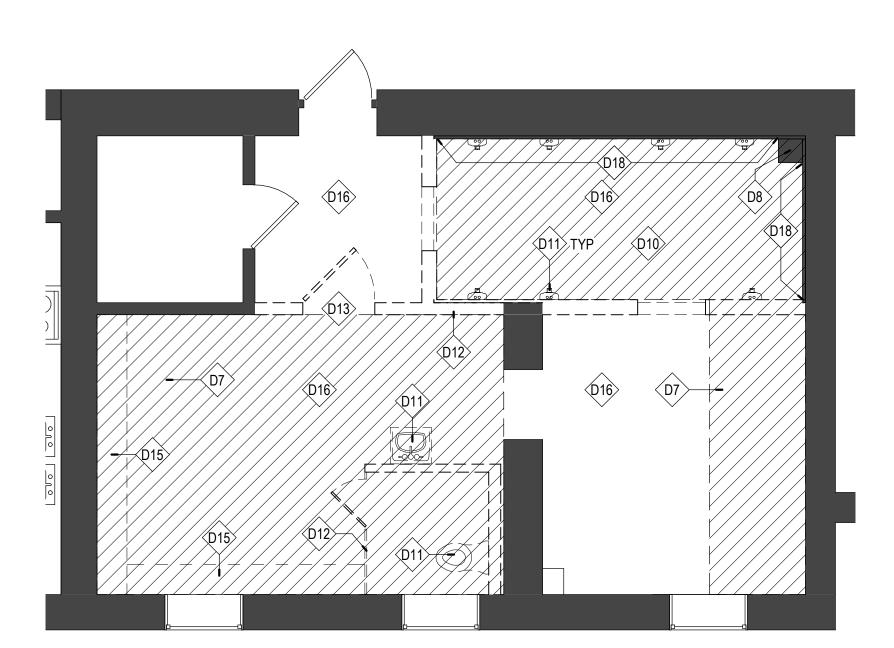


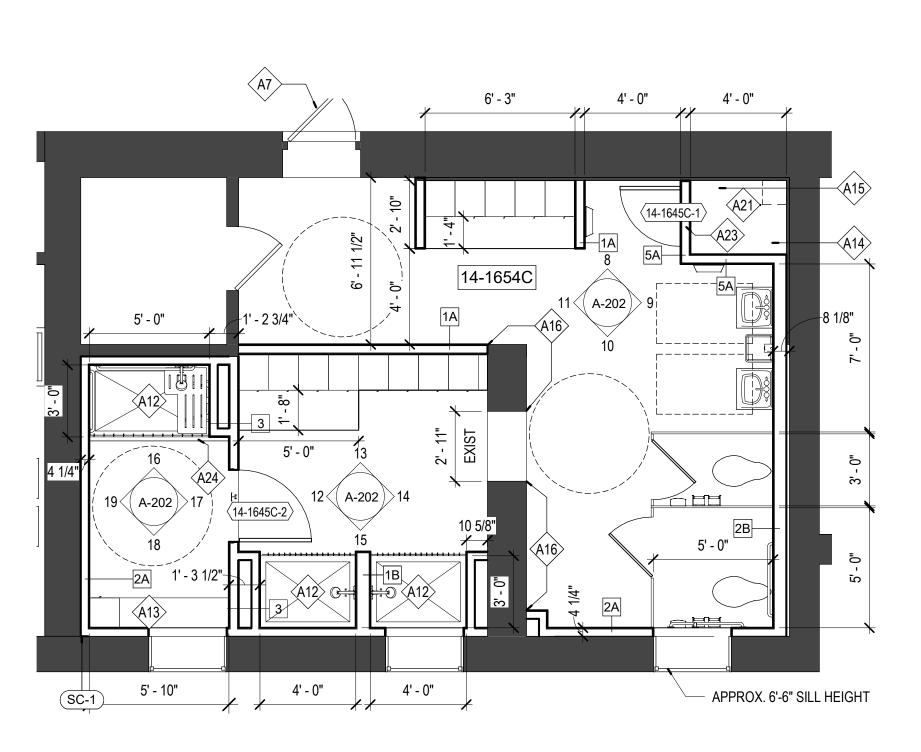
1 DEMOLITION PLAN - BOYS' LOCKER ROOM - ALTERNATE 3



6 FLOOR PLAN - BOYS' LOCKER ROOM - ALTERNATE 3

A-201 1/4" = 1'-0"





DEMOLITION PLAN - GIRLS' LOCKER ROOM - ALTERNATE 3

FLOOR PLAN - GIRLS' LOCKER ROOM - ALTERNATE 3

GENERAL NOTES: DEMOLITION

- PROVIDE TEMPORARY BARRICADES AND OTHER FORMS OF PROTECTION AS REQUIRED TO PROTECT OWNER'S AND CLIENT'S PERSONNEL AND GENERAL PUBLIC FROM INJURY DUE TO SELECTIVE DEMOLITION WORK.
- SELECTIVE DEMOLITION WORK.
 ERECT AND MAINTAIN DUST-PROOF PARTITIONS AND CLOSURES AS REQUIRED TO PREVENT
 SPREAD OF DUST OR FUMES TO OCCUPIED PORTIONS OF THE BUILDING. PROTECT MECHANICAL
- SYSTEM AS REQUIRED.

 3. CONDUCT SELECTIVE DEMOLITION OPERATIONS AND DEBRIS REMOVAL IN A MANNER TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED OR USED FACILITIES.
- 4. PROVIDE BYPASS CONNECTIONS AS NECESSARY TO MAINTAIN CONTINUITY OF SERVICE TO OCCUPIED AREAS OF THE BUILDING.
- 5. REVIEW/COORDINATE SCHEDULE OF WORK TO BE DEMOLISHED WITH BUILDING MANAGEMENT TO LIMIT INTERRUPTIONS OF OWNER-OCCUPIED SPACES.
- . MAINTAIN FIRE PROTECTION SERVICES DURING SELECTIVE DEMOLITION.
- 7. COVER AND PROTECT EQUIPMENT AND FIXTURES INDICATED "TO REMAIN" FROM SOILAGE OR DAMAGE.
- LOCATE, IDENTIFY, STUB OFF, AND DISCONNECT UTILITY SERVICES THAT ARE NOT INDICATED TO REMAIN
- 9. PERFORM SELECTIVE DEMOLITION WORK IN A SYSTEMATIC MANNER.
- 10. UNO ALL EXISTING PARTITIONS, FIRE EXTINGUISHERS AND CABINETS, MILLWORK, DOORS, HARDWARE, SIDELITES, CLERESTORIES, ETC. TO REMAIN.
- 11. REMOVE ALL HEADERS AT DOOR LOCATIONS WHERE DOORS ARE INDICATED TO BE REMOVED.
 12. WHERE WALLS OR PARTITIONS ARE TO BE REMOVED, REMOVE OR RELOCATE ALL EXISTING ELECTRICAL WIRING, DATA CABLING, TELEPHONE LINES, CABLE LINES, SATELLITE LINES, CONDUIT,
- WIRE MOLD, RECEPTACLES AND SWITCH BOXES, ETC. LOCATED WITHIN DEMOLISHED PORTIONS.

 SALVAGE AND STORE ALL DOORS AND SIDELITES FOR POSSIBLE REUSE. OWNER HAS FIRST RIGHT OF REFUSAL ON ALL REMOVED ITEMS AND CONTRACTOR IS RESPONSIBLE FOR DISPOSAL IF OWNER DOES NOT WANT ITEMS.
- 14. PATCH ALL PENETRATIONS FROM MEP DEMO (CONDUIT, PIPING, ETC. REMOVAL) TO MATCH EXISTING ADJACENT CONSTRUCTION.
- 15. SEE PLUMBING DRAWINGS FOR FLOOR DRAIN LOCATIONS.

D# KEYED NOTES - DEMOLITION

- D3 BASE BID: DEMO / REMOVE WATER FOUNTAIN
- D6 BASE BID: DEMO / REMOVE EXISTING LADDER & ACCESSORIES
- D7 DEMO / REMOVE PORTION OF CONCRETE SLAB / TRENCH FLOOR AS REQUIRED FOR NEW UNDERGROUND PLUMBING
- D8 EXISTING SPRINKLER CLEANOUT
- D10 DEMO / REMOVE EXISTING WALL TILE THROUGHOUT
- D11 DEMO / REMOVE EXISING PLUMBING FIXTURES AND TOILET ACCESSORIES, TYP.
- D12 DEMO / REMOVE EXISTING PARTITIONS AS INDICATED, TYP.
- D13 DEMO / REMOVE EXISTING DOOR & FRAME
- D14 DEMO PORTION OF EXISTING WALL TO PROVIDE FOR NEW OPENING
- D15 REMOVE EXISTING LOCKERS & CONC. SUPPORT PLATFORM (WHERE OCCURS), TYP.
- D16 REMOVE EXISTING FLOOR FINISH THROUGHOUT
- D18 DEMO/REMOVE EXISTING WALL FURRING/TILE/FINISH. PREP TO RECEIVE SELECTED FINISH. SKIMCOAT PLASTER AT LOCATIONS TO BE PAINTED.

GENERAL NOTES: LOCKER ROOMS

- . BACKFILL TRENCH AND INSTALL NEW REINFORCED CONCRETE SLAB TO MATCH EXIST ADJACENT CONSCTRUCTION. DOWEL NEW CONCRETE INTO EXIST. INSTALL VAPOR BARRIER UNDER NEW CONCRETE
- PROVIDE NEW METAL STUD FRAMED GYP BD PARTITIONS AS SHOWN.
- B. NEW WALLS TO RECEIVE CERAMIC TILE.
- 4. PROVIDE EPOXY FLOOR WITH INTEGRAL BASE THROUGHOUT.
- 5. PROVIDE NEW PREFINISHED METAL TOILET PARTITIONS.6. PAINT EXISTING WALLS WITH EPOXY PAINT.
- 7. PROVIDE WALL MOUNTED MIRROR ABOVE SINK.
- 8. PROVIDE HAND DRYER AT EACH LOCKER ROOM.9. NEW DOORS & FRAMES TO BE HOLLOW METAL, PAINTED.

A# KEYED NOTES - ARCHITECTURAL

- BASE BID: NEW CONCRETE POOL DECK W/BRUSHED FINISH INSTALL SEALER. SLOPE TO NEW DECK DRAINS. SEE STRUCTURAL DRAWINGS
- A7 BASE BID: PAINT EXISTING DOOR & FRAME
- EPOXY COATING SHOWER FLOOR AND BASE W/SOLID SURFACE WALL PANELS. PROVIDE BENCH AND GRAB BARS AT ACCESSIBLE UNIT SEE DETAIL 1/A903
- A13 NEW LOCKER W/BENCH
- A14 FLOOR DRAIN SEE MEP DRAWINGS
- A15 NEW FRP PANELS (WHITE) FROM TOP OF BASE TO UNDERSIDE OF CEILING
- A16 PREP EXISTING WALL TO RECEIVE SCHEDULED FINISH
- A21 BASE BID: PROVIDE NEW EPOXY FLOOR AND INTEGRAL
- BASE
- A23 4" CONCRETE BASE
 A24 TRENCH DRAIN, SEE MEP DRAWINGS

RIS A

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR

MISSOURI STATE CERITIFICATE OF AUTHORITY #00246198



MICHAEL J. RATLIFF, MO #6855

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OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF ELEMENTARY & SECONDARY EDUCATION

REPAIR SWIMMING POOL

MISSOURI SCHOOL FOR THE BLIND 3815 MAGNOLIA AVENUE ST. LOUIS, MO

PROJECT # E2107-01 SITE# 2011 FACILITY # 5012011003, 501201104

REVISION:

DATE:

REVISION:

DATE:

REVISION:

DATE:

ISSUE DATE:

07/06/22

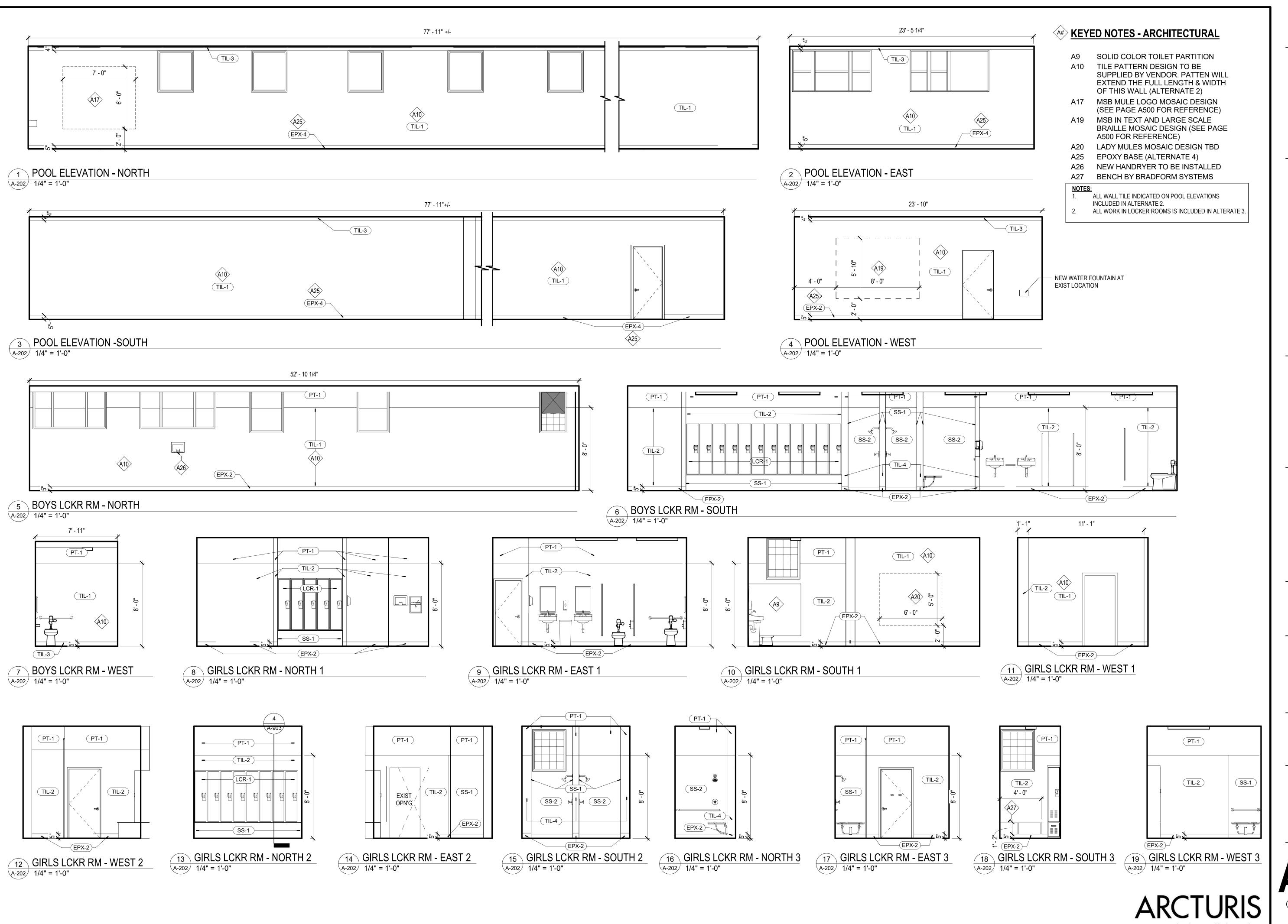
CAD DWG FILE: A-201
DRAWN BY: AR
CHECKED BY: MR
DESIGNED BY: WD

SHEET TITLE:

ENLARGED
PLANS LOCKER RMS

SHEET NUMBER:

A-201



MISSOURI STATE CERITIFICATE OF AUTHORITY #00246198



MICHAEL J. RATLIFF, MO #6855

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07/06/22

CAD DWG FILE: A-202
DRAWN BY: AR
CHECKED BY: MR
DESIGNED BY: WD

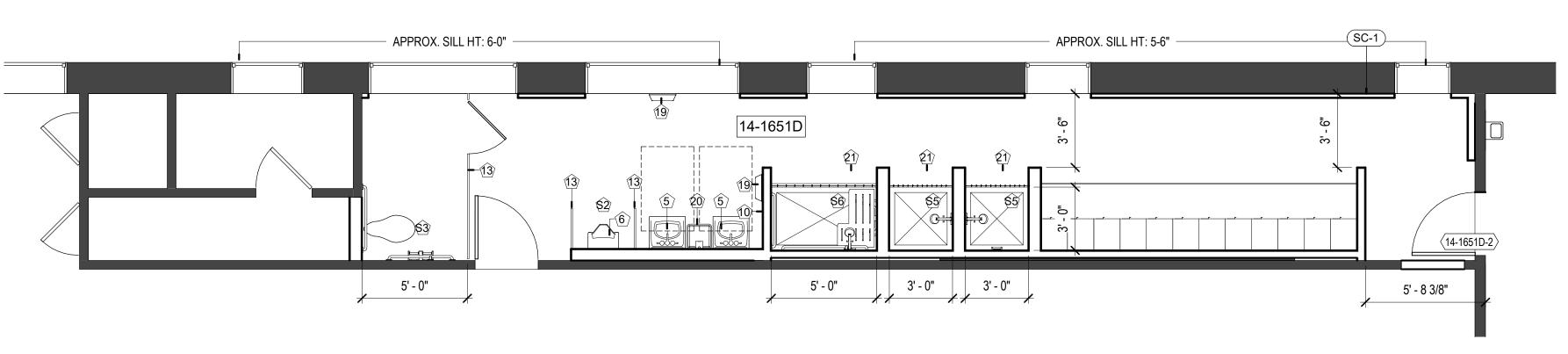
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ELEVATIONS - POOL & LOCKER RMS

SHEET NUMBER:

A-202

(ALTERNATES 2 AND 3) 10 OF 45 SHEETS 07/06/22

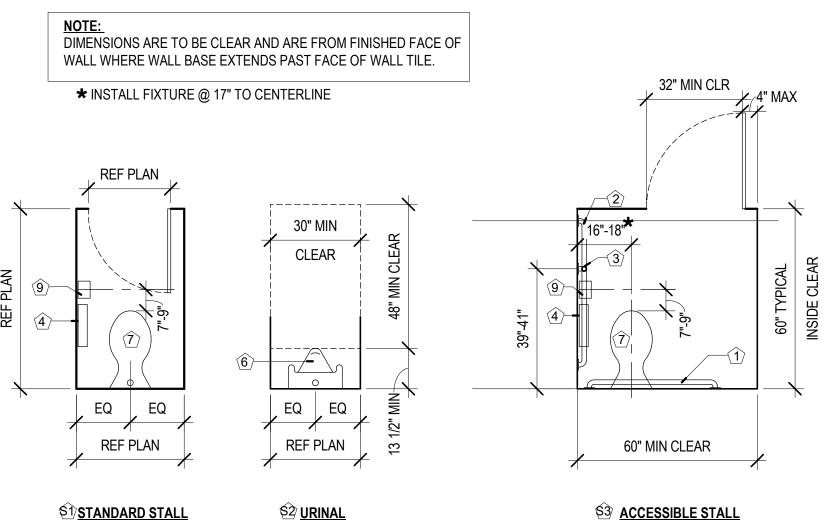


1 FLOOR PLAN - BOYS' LOCKER ROOM

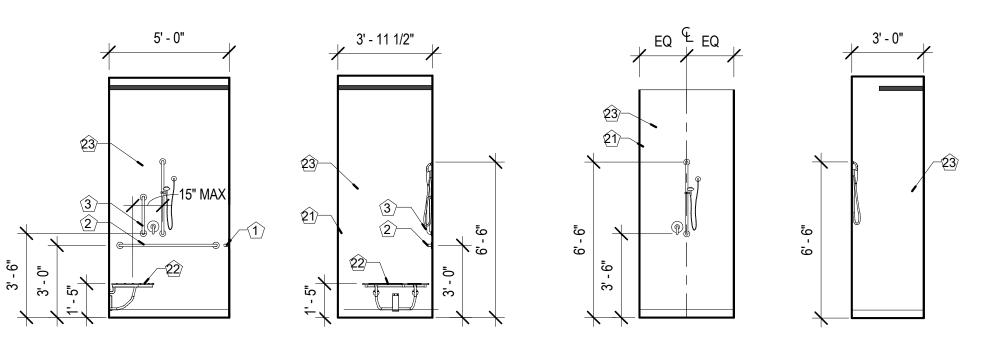
A-203 1/4" = 1'-0"

14-1654C 12 (A-202) 14 19 (A-202)>17 14-1645C-2 4' - 0" 4' - 0" APPROX. 6'-6" SILL HEIGHT

2 FLOOR PLAN - GIRLS' LOCKER ROOM
1/4" = 1'-0"



3 PLUMBING FIXTURES/ACCESSORIES
A-203 3/8" = 1'-0"



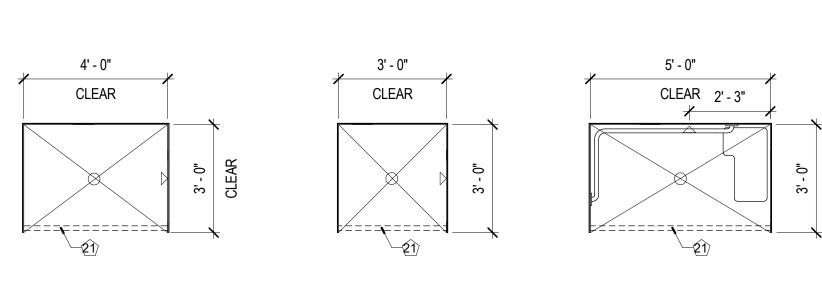
4 PLB. FIXT. & ACC. MOUNTING HEIGHTS

1/4" = 1'-0"

PLUMBING FIXTURES AND ACCESSORIES LEGEND:

ALL FIXTURES, ACCESSORIES, AND INSTALLATIONS TO BE ACCESSIBLE AND IN FULL COMPLIANCE WITH ICC/ANSI 117.1. NUMBERS IN BRACKETS REFER TO ICC/ANSI 117.1 SECTION.

- BOBRICK B6806 X 36" HORIZONTAL GRAB BAR WITH CONCEALED MOUNTING, SATIN FINISH -
- STAINLESS STEEL; PROVIDE BLOCKING AS REQUIRED BOBRICK B-6806 48" HORIZONTAL GRAB BAR WITH CONCEALED MOUNTING, SATIN FINISH -
- STAINLESS STEEL; PROVIDE BLOCKING AS REQUIRED
- BOBRICK B6806 18" VERTICAL GRAB BAR WITH CONCEALED MOUNTING, SATIN FINISH -STAINLESS STEEL; PROVIDE BLOCKING AS REQUIRED
- BOBRICK B-27460 SURFACE-MOUNTED TOILET TISSUE DISPENSER FOR TWO ROLLS; BRUSHED STAINLESS
- LAVATORY, WALL HUNG, REFERENCE PLUMBING DRAWINGS URINAL, REFERENCE PLUMBING DRAWINGS
- WATER CLOSET, WALL HUNG, AUTOMATIC FLUSH REFERENCE PLUMBING DRAWINGS
- NOT USED BOBRICK B-270 SURFACE MOUNTED SANITARY NAPKIN DISPOSAL
- BOBRICK B-35016 SURFACE MOUNTED SHARPS DISPOSAL
- TOILET PARTITIONS, FLOOR AND CEILING ANCHORED, SOLID POLYMER; COLOR: TBD, SEE SPEC FOR
- ADDITIONAL INFORMATION
- NOT USED NOT USED
- NOT USED
- NOT USED
- NOT USED
- BOBRICK B-750 AIRCRAFT ADA RECESSED HAND DRYER
- BOBRICK B-2280 FLOOR-STANDING WASTE RECEPTACLE WITH OPENTOP
- BOBRICK B-204-3 SHOWER CURTAIN AND ROD BOBRICK B-5181 FOLDING SHOWER SEAT
- SOLID SURFACE SHOWER WALL PANELS (4 SIDES)
- INCLUDE TALL CORNER SHOWER CADDY
- MANUF .: CORIAN
- COLOR: DEEP CLOUD & SILVER GRAY, SMOOTH FINISH
- BENCH SAME VENDOR AS LOCKERS



S4 SHOWER STALL **SS** SHOWER STALL

SO ADA SHOWER STALL

THE BLIND 3815 MAGNOLIA AVENUE ST. LOUIS, MO PROJECT # E2107-01

MISSOURI SCHOOL FOR

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**

MISSOURI STATE CERITIFICATE OF AUTHORITY #00246198

MICHAEL J. RATLIFF, MO #6855

2011 FACILITY # 5012011003, 501201104

OFFICE OF

ADMINISTRATION

DEPARTMENT OF

ELEMENTARY &

DIVISION OF FACILITIES MANAGEMENT, DESIGN

SECONDARY EDUCATION

REPAIR SWIMMING POOL

AND CONSTRUCTION

REVISION: REVISION: REVISION: DATE: ISSUE DATE: 07/06/22

CAD DWG FILE: A-203 DRAWN BY: CHECKED BY: MR DESIGNED BY: WD

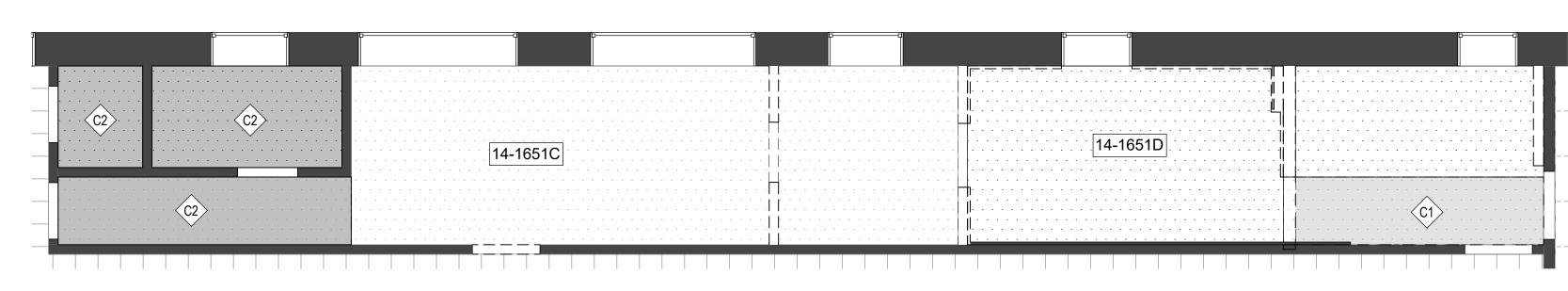
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PLUMBING ACCESSORIES

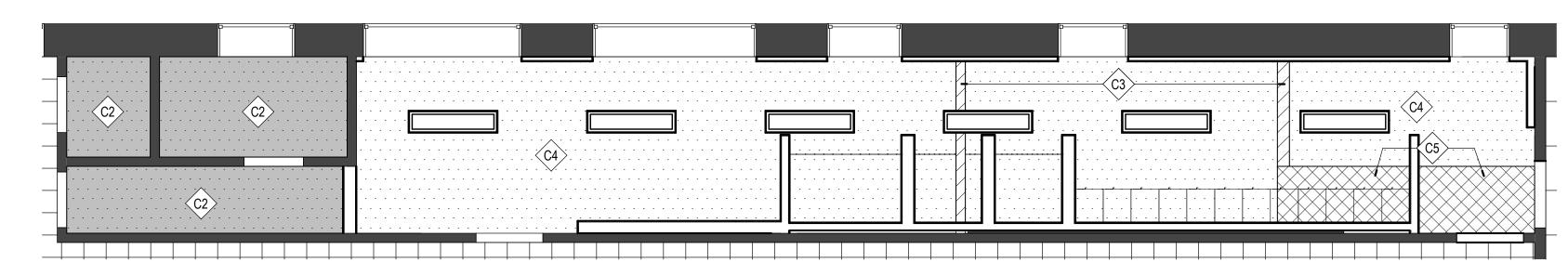
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(ALTERNATE 3) 11 OF 45 SHEETS 07/06/22

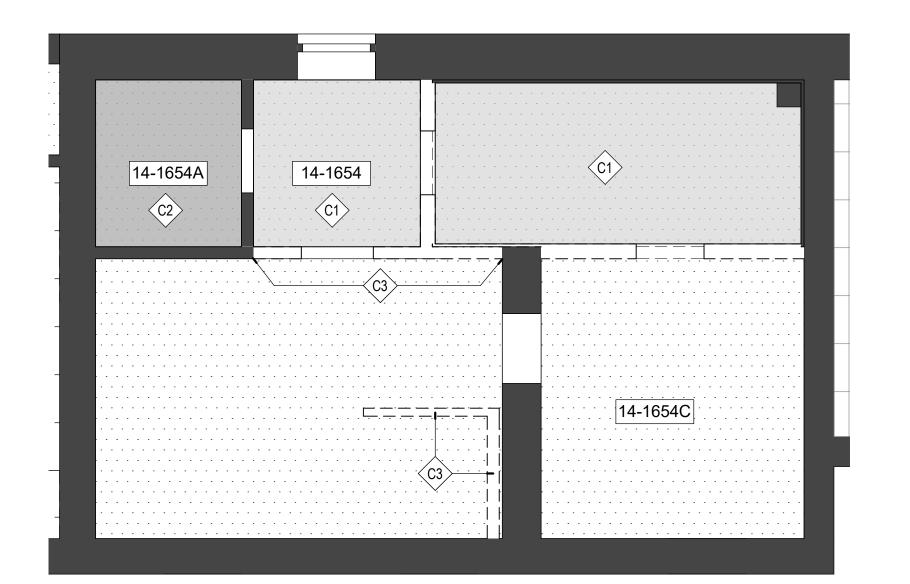




1 DEMO RCP - BOYS LOCKER RM A-401 1/4" = 1'-0"



2 RCP - BOYS LOCKER RM A-401 1/4" = 1'-0"





3 DEMO RCP - GIRLS LOCKER RM A-401 1/4" = 1'-0"

4 00 - RCP - GIRLS LOCKER RM A-401 1/4" = 1'-0"

C2 .

KEYED NOTES - CEILING

- DEMO/PLASTER CEILING/SOFFIT(7'-6"+/-) C2 EXISTING PLASTER CEILING - NO WORK
- EXISTING PLASTER CEILING -
- PATCH/REPAIR WHERE WALLS WERE
- EXISTING PLASTER CEILING PAINT C5
- NEW GYP BD SOFFIT MATCH EXISTING
- NEW SUSPENDED GYP BD CEILING. FEILD VERIFY TO INSTALL @ MAX HEIGHT. MIN
- HEIGHT (7'-1") PAINT NEW GYP BD BULKHEAD, PAINT (7'-1")

GENERAL NOTES: CEILING

- COORDINATE CEILING WORK WITH SEPERATE HVAC PROJECT.
- SEE ELECTRICAL DRAWINGS FOR LIGHTING. EXISTING INFORAMTION GATHERED FROM CASUAL FIELD OBSERVATION. CONTRACTOR SHALL
- FIELD VERIFY EXISTING CONDITIONS PRIOR TO BID. CONTRACTOR SHALL PROVIDE ALL CUTTING & PATCHING AS REQUIRED FOR EXECUTION OF THE WORK. INCLUDE WORK REQUIRED DUE TO MEP RELATED ITEMS, ITEMS NOT SHOWN ON PLANS.

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**

MISSOURI STATE CERITIFICATE OF AUTHORITY #00246198



MICHAEL J. RATLIFF, MO #6855



OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF ELEMENTARY & SECONDARY EDUCATION

REPAIR SWIMMING POOL

MISSOURI SCHOOL FOR THE BLIND 3815 MAGNOLIA AVENUE ST. LOUIS, MO

PROJECT # E2107-01 2011 FACILITY # 5012011003, 501201104

REVISION: REVISION: DATE: ISSUE DATE: 07/06/22

CAD DWG FILE: A-401 DRAWN BY: CHECKED BY: MR DESIGNED BY: WD

SHEET TITLE:

REFLECTED **CEILING PLANS**

SHEET NUMBER:

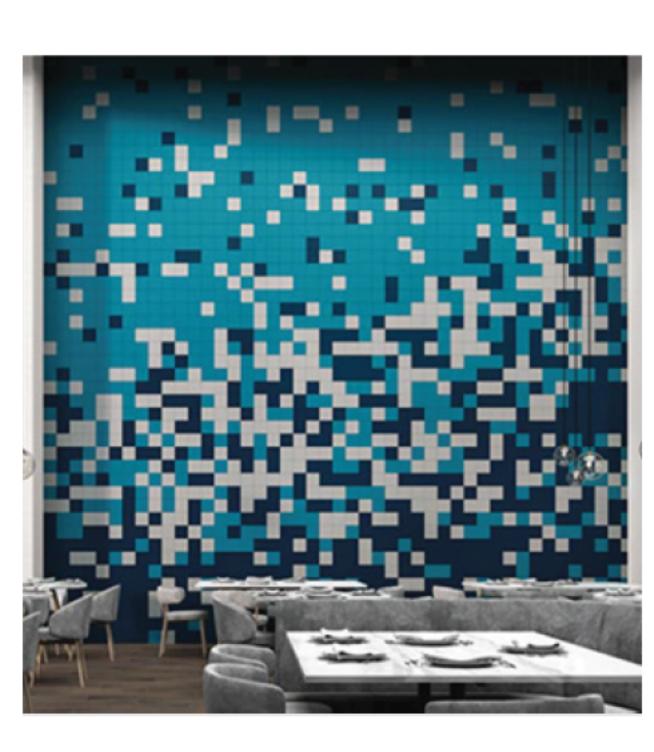
			FINISH LEGEND		
FINISH TAG	MANUFACTURER/DISTRIBUTOR	DESCRIPTION	LOCATION	CONTACT	NOTES
ONCRETE					
CON-1	TNEMEC	SEALED CONCRETE	POOL DECK	MIKE CERUTTI, mcerutti@tnemec.com	BASE BID
OORING					
EPX-1	TNEMEC EPOXY FLOORING & BASE	GREY TONE EPOXY W/MULTI COLOR FLEX AND SLIP RESISTANT TEXTURE	BOY'S & GIRL'S LOCKER ROOM	MIKE CERUTTI, mcerutti@tnemec.com	ALTERNATE #3 & BASE BID EQUIPMENT ROO
EPX-2	TNEMEC EPOXY FLOORING & BASE	COLOR - MID TONE GREY	BOY'S & GIRL'S LOCKER ROOM	MIKE CERUTTI, mcerutti@tnemec.com	ALTERNATE #3
EPX-3	TNEMEC EPOXY FLOORING & BASE	COLOR - BLACK	BOY'S & GIRL'S LOCKER ROOM	MIKE CERUTTI, mcerutti@tnemec.com	ALTERNATE #3
EPX-4	TNEMEC EPOXY FLOORING & BASE	COLOR-BLUE	POOL DECK	MIKE CERUTTI, mcerutti@tnemec.com	MATCH DEX-O DFX-B-04;ALTERNATE 4
AINT		1			
PT-1	SHERWIN WILLIAMS OR APPROVED EQUAL	EXTRA WHITE SW7006	GYP-1	HANK MEINKING, hank.meinking@sherwin.com	-
PT-2	SHERWIN WILLIAMS OR APPROVED EQUAL	IRON ORE SW7069	DOORS & FRAMES, RAILINGS, LOUVERS	HANK MEINKING, hank.meinking@sherwin.com	
LE			1		
TIL-1	DALTILE	CUSTOM MOSAIC, KEYSTONE SERIES, 2"X2" SHEET MOUNTED, CUSTOM RANDOM DROP DESIGN - COLORS: 30% D617 - ARCTIC WHITE,30% D182 - SUEDE GREY, 10% D118 - BROWNBERRY, 10% D311 - EBONY, 10% D169 - WATERFALL, 10% D189 - NAVY	NATATORIUM WALLS / BOY'S AND GIRL'S LOCKER ROOMS	JOANNA WHITTAKER, joanna.whittaker@daltile.com	ALTERNATE #3, SEE IMAGE ON A-500 FOR REFERENCE IMAGE
TIL-2	DALTILE	COLORWHEEL, 4"X4", CHALKBOARD, GROUT: MAPEI, KERAPOXY EPOXY GROUT, COLOR: 100 WHITE	BOY'S AND GIRL'S LOCKER ROOMS		ALTERNATE #3
TIL-3	DALTILE	KEYSTONE, 2"X2", EBONY/BLACK,GROUT: MAPEI, KERAPOXY EPOXY GROUT, COLOR: 100 WHITE	LANE MARKERS IN POOL, ACCENT TILE	JOANNA WHITTAKER, joanna.whittaker@daltile.com	
TIL-4	DALTILE	COLORWHEEL, 4"X4", ARCTICE WHITE, GROUT: MAPEI, KERAPOXY EPOXY GROUT, COLOR: 100 WHITE	EXTERIOR OF SHOWER DIVIDERS		ALTERNATE #3
TIL-5	DALTILE	KEYSTONES, 2"X2", ARCTIC WHITE, GROUT: MAPEI, KERAPOXY EPOXY GROUT, COLOR: 100 WHITE	INTERIOR OF POOL	JOANNA WHITTAKER, joanna.whittaker@daltile.com	BASE BID (INFILL TILE) & ALTERNATE 2
OCKER					
LCR-1	HALLOWELL	CUSTOM 60" HIGH PHENOLIC CONSTRUCTION	BOYS AND GIRL'S LOCKER ROOMS	TY OHL, tohl@bradfordsystems.com	
PECIALTY F	INISH				
SS-1	CORIAN SOLID SURFACE	SILVER GRAY	SIDE WALLS OF SHOWER STALLS		ALL NECESSARY TRIM PIECES TO MATCH ADJACENT PANEL COLOR (ALTERNATE 3)
SS-2	CORIAN SOLID SURFACE	DEEP CLOUD	BACK WALLS OF SHOWER STALLS		ALL NECESSARY TRIM PIECES TO MATCH ADJACENT PANEL COLOR (ALTERNATE 3)
DILET PART	TITION				
PAR-1	ASI ACCURATE PARTITIONS	BLACK CORE PHENOLIC - SILVER GRAY	BOY'S AND GIR'S LOCKER ROOMS - SEE PLAN FOR SIZES		SEE DRAWING FOR PARTITION LAYOUT AND DIMENSIONS (ALTERNATE 3)

GENERAL NOTES: FINISH

- REFER TO PLANS, RCPS, FINISH LEGEND, DOOR SCHEDULE, AND DETAILS FOR FINISH INFORMATION AND LOCATIONS.
- IDENTIFY AND INFORM CONSTRUCTION TEAM OF ALL CRITICAL PATH ITEMS, CRITICAL DEADLINES, AND DATE OF SUBSTANTIAL COMPLETION.
- GC TO REVIEW AND SUBMIT TO ARCHITECT SAMPLES OF EACH MATERIAL IN FINISH LEGEND. REFER TO PLANS, RCP, ELEVATIONS, FINISH LEGEND, DOOR SCHEDULE, AND DETAILS FOR FINISH INFORMATION AND LOCATIONS. SAMPLES TO BE THE SPECIFIED COLOR AND FINISH FOR REVIEW. REFERENCE GENERAL NOTES: SUBMITTALS FOR MORE INFO AND PROTOCOL.
- THE FINISH NAME TAKES PRECEDENT OVER THE FINISH PRODUCT NUMBER WHEN ORDERING MATERIALS. CONTACT ARCHITECT WITH DISCREPANCIES BEFORE ORDERING MATERIALS.
- PATCH AND REPAIR EXISTING FINISHES AS REQUIRED WHERE DEMOLITION OR NEW CONSTRUCTION OCCURS. NEW FINISHES TO MATCH EXISTING IN MANUFACTURER, COLOR, FINISH, AND TEXTURE. WHERE MATERIALS ARE NOT AVAILABLE FOR EXACT MATCH, SUBMIT PROPOSED REPLACEMENT MATERIALS TO ARCHITECT FOR BEFORE PURCHASE OR INSTALLATION.
- PATCH AND REPAIR OR REPLACE ANY EXISTING FINISHES IN BUILDING COMMON AREAS OUTSIDE SCOPE OF
- WORK IF DAMAGE OCCURS RELATED TO THE CONSTRUCTION OF THE SCOPE OF WORK. MAINTAIN AND PROTECT EXISTING FLOORING AND FINISHES NOTED TO REMAIN FOR DURATION OF
- CLEAN AND PREPARE FLOOR AREA SCHEDULED TO RECEIVE NEW FLOORING SO THE AREAS ARE ABLE TO ACCEPT NEW FLOORING, AND MAINTAIN REQUIRED FLOOR ASSEMBLY RATING, TO BE FLUSH AND
- CONTINUOUS WITH ADJACENT FLOOR SURFACE, AS REQUIRED FOR NEW FINISH. ALL INTERIOR FINISHES TO MEET OR EXCEED APPLICABLE CODE REQUIREMENTS, INCLUDING BUT NOT
- LIMITED TO FLAME SPREAD AND SMOKE DEVELOPMENT. ALL INTERIOR FINISH AND SUNDRIES TO MEET OR EXCEED CLASS II FLAME SPREAD, 26 - 75 AND SMOKE
- DEVELOPMENT RATING LESS THAN 450 AND ALL OTHER APPLICABLE CODES. ALL IMPACT-RESISTANT PANELS TO BE CLASS 1 COMPONENTS. TESTED IN ACCORDANCE WITH UL-723
- (ASTM-E849A) FLAME SPREAD 20 OR LESS. SMOKE DEVELOPED 400 OR LESS. UNO ALL PAINTED SURFACES TO RECEIVE A MINIMUM OF ONE (1) PRIMER COAT AND THEN TWO (2) FINISH
- PAINT COATS. TINT PRIMER COAT PER MANUFACTURER'S SPECIFICATIONS. UNO ALL HOLLOW METAL FRAMES TO RECEIVE PAINT PT-2. REFER TO DOOR SCHEDULE FOR ADDITIONAL
- UNO ALL METAL DOORS TO RECEIVE PAINT PT-2. REFER TO DOOR SCHEDULE FOR ADDITIONAL INFORMATION.

UNO ALL PAINTED SURFACES TO RECEIVE THE FOLLOWING FINISHES:

GYP. BD. VERTICAL WALL SURFACES - EGGSHELL (SATIN) GYP. BD. CEILINGS, SOFFITS, BULKHEADS - EGGSHELL (SATIN) METAL SURFACES - SEMI-GLOSS











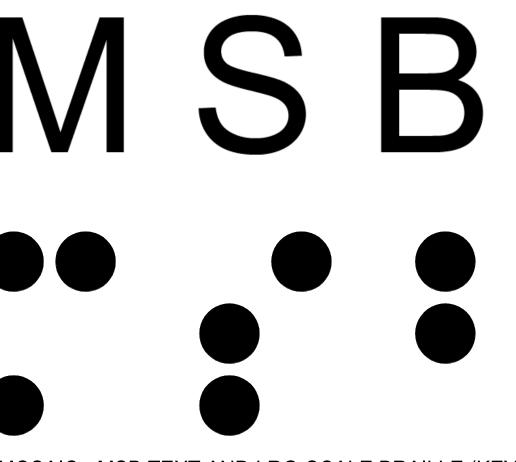


BLACK/EBONY - D311

WATERFALL - D169 10%

MOSAIC WALL DESIGN INTENT (KEYNOTE A10) NOT TO SCALE

ALTERNATE 2







POOL MURAL - MULES LOGO (KEYNOTE A17) NOT TO SCALE ALTERNATE 2

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**

MISSOURI STATE CERITIFICATE OF AUTHORITY #00246198



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REPAIR SWIMMING POOL

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PROJECT # E2107-01 2011 FACILITY # 5012011003, 501201104

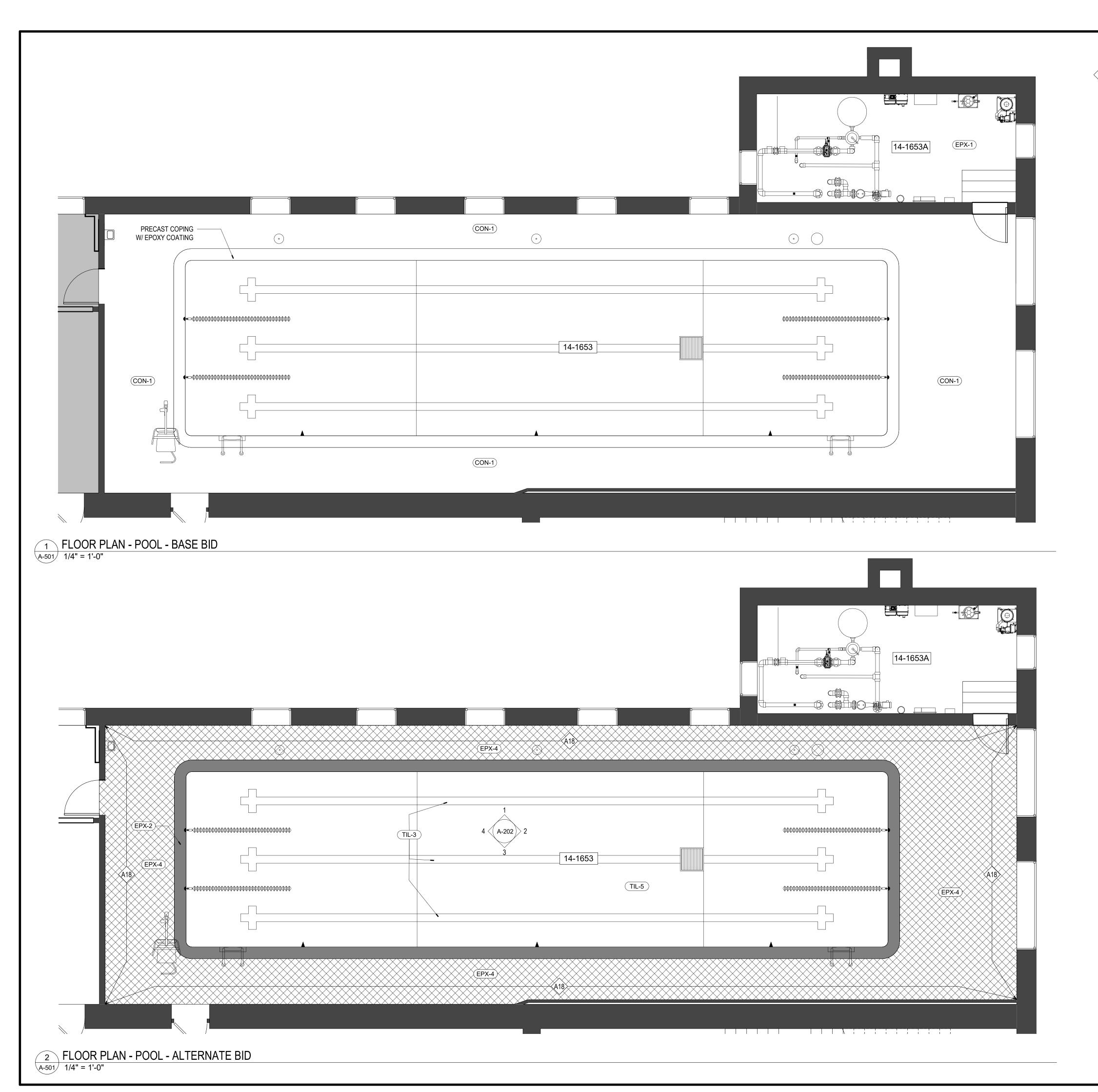
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CAD DWG FILE: A-500 DRAWN BY: CHECKED BY: MR DESIGNED BY: WD

SHEET TITLE:

FINISH LEGEND & **SCHEDULE**

SHEET NUMBER:



KEYED NOTES - ARCHITECTURAL

A18 ALTERNATE 1: PROVIDE NEW WALL TILE (TIL-1). ENTIRE POOL VOLUME (BOTTOM AND SIDES). TIL-3 (LANE MARKERS), TIL-5 (FIELD)

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR

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DATE:

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ISSUE DATE:

07/06/22

CAD DWG FILE: A-501
DRAWN BY: AR
CHECKED BY: MR
DESIGNED BY: WD

SHEET TITLE:

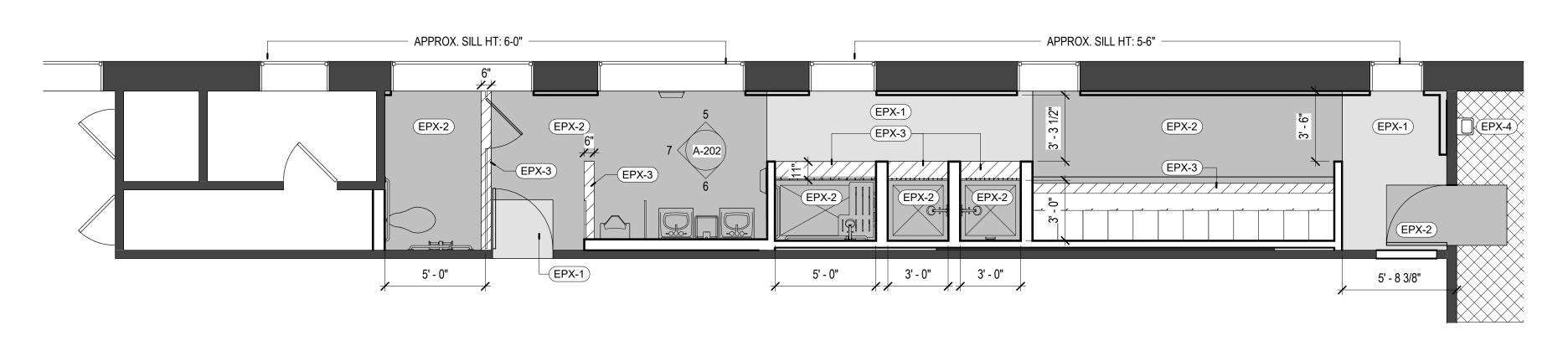
FINISH PLANS
- POOL

SHEET NUMBER:

A-501

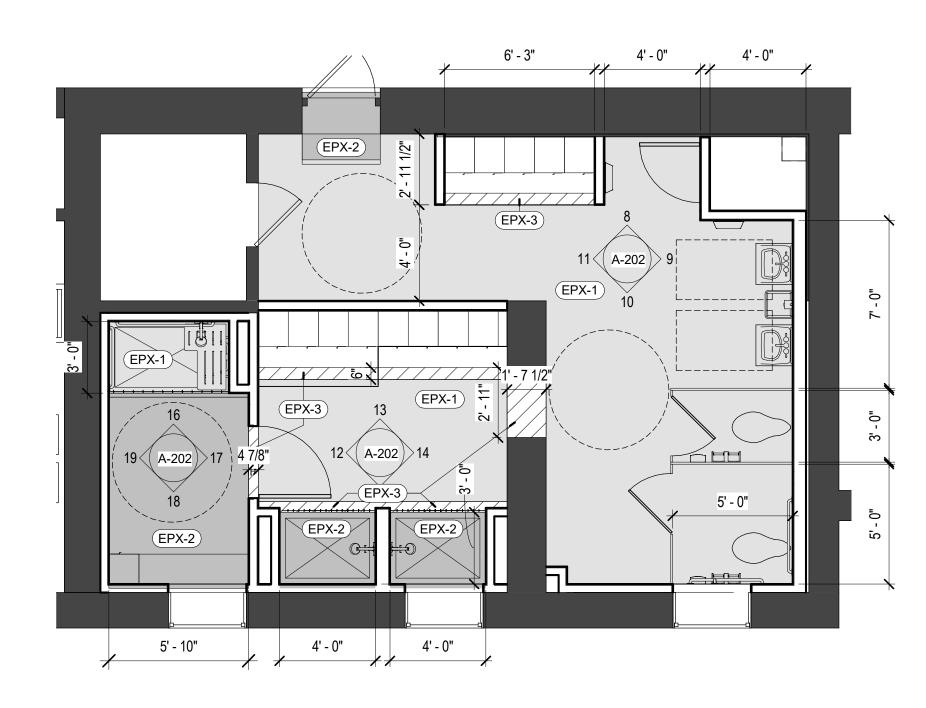
14 OF 45 SHEETS 07/06/22

ARC I UKI



1 FLOOR PLAN - BOYS' LOCKER ROOM - ALTERNATE 3

A-502 1/4" = 1'-0"



2 FLOOR PLAN - GIRLS' LOCKER ROOM - ALTERNATE 3
A-502 1/4" = 1'-0"

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR

MISSOURI STATE CERITIFICATE OF AUTHORITY #00246198



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REPAIR SWIMMING POOL

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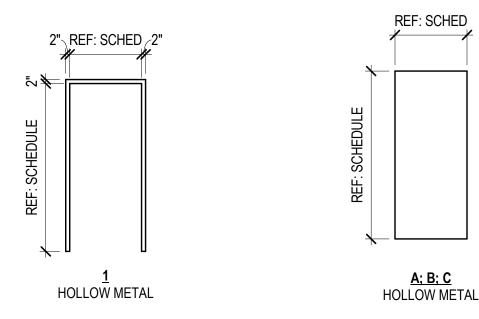
FINISH PLANS
- LOCKER
RMS

SHEET NUMBER:

A-502

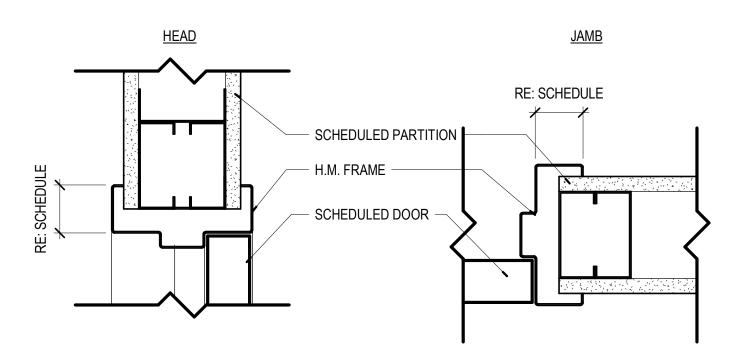
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6 DETAIL - H.M. DOOR FRAME A-901 3" = 1'-0"

DOOR SCHEDULE - NEW FRAME MARK TYPE WIDTH HEIGHT THICKNESS FINISH TYPE FINISH HARDWARE COMMENTS BASEMENT 14-1645C-1 14-1645C-2 PTD PTD PROVIDE & INSTALL CLOTHES HOOK ON INT SIDE OF DOOR 14-1651D-1 3' - 0" | 6' - 8" 1 3/4" PTD 1 PTD 14-1651D-2 C 3' - 0" 6' - 8" 1 3/4" PTD 1 PTD 14-1653A C 3' - 0" 6' - 8" 1 3/4" PTD 1 PTD 90 MINUTE RATED

GENERAL NOTES: DOOR, FRAME, & HARDWARE

- FIELD VERIFY ACCURACY OF ALL CONDITIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- UNO ALL EXISTING DOORS, FRAMES, AND HARDWARE TO REMAIN. REPAIR FINISH ON ALL EXISTING DOORS TO REMAIN WITHIN SCOPE OF WORK, INCLUDING FILLING, SANDING, STAINING, AND/OR REFINISHING AS REQUIRED TO RETURN DOOR TO AS NEW
- CONFIRM ALL BUILDING STANDARDS FOR DOOR ASSEMBLIES WITH BUILDING OWNER, INCLUDING BUT NOT LIMITED TO: DOOR SIZE, MATERIAL, AND FINISH; HARDWARE STYLE, FUNCTION, AND FINISH;
- AND FRAME SIZE, TYPE, AND FINISH. FIELD VERIFY ALL DOOR AND FRAME SIZES PRIOR TO FABRICATION AND INSTALLATION.
- UNO ALL EXISTING AND NEW HARDWARE COMPONENTS TO MATCH BUILDING STANDARD. CONFIRM DOOR FUNCTION REQUIREMENTS AT ALL SCHEDULED OPENINGS WITH TENANT AND ARCHITECT.
- DOOR OPERATING DEVICES AND ANY SPECIAL LOCKING ARRANGEMENTS TO COMPLY WITH ALL ENFORCED BUILDING CODES, ICC/ANSI 117.1, AND ALL LOCAL, STATE, AND NATIONAL ACCESSIBILITY REQUIREMENTS.
- UNO PAINT ALL EXISTING AND NEW HOLLOW METAL DOOR FRAMES PT-2.
- REFER TO FINISH LEGEND FOR ADDITIONAL DOOR, FRAME, AND HARDWARE FINISH INFORMATION. EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY, SPECIAL
- KNOWLEDGE, OR EFFORT. THE OPERATION OF THE SECURITY DEVICES SHALL BE COMPLIANT WITH 12. IF A DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT
- A POINT 3 INCHES FROM THE LATCH, MEASURED TO THE LEADING EDGE OF THE DOOR. THE MAXIMUM FORCE FOR PUSHING OR PULLING OPEN A DOOR SHALL BE AS FOLLOWS: (1) FIRE DOORS SHALL HAVE THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY. (2) OTHER DOORS. (A) INTERIOR HINGED DOORS: 5 IBF (22.2N) (B) SLIDING OR FOLDING DOORS: 5 IBF (22.2N) THESE FORCES DO NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGE OTHER DEVICES THAT MAY HOLD THE DOOR IN A CLOSED POSITION.

FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO

DOORS SHALL HAVE A SMOOTH, UNINTERRUPTED SURFACE ON THE LOWER 10 INCHES.

DOOR HARDWARE NOTES:

- REFER TO SPECIFICATIONS FOR HARDWARE SETS
- DOORS SHALL BE OPERABLE FROM SINGLE EFFORT, NO GRASPING OR WRIST MOVEMENT USING LEVERS, PUSH-PULLS, OR PANIC DEVICES, AND SHALL BE OPENABLE WITHOUT USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT
- HARDWARE SHALL BE MOUNTED AT 38" TO 44" AFF.
- DOOR CLOSERS SHALL PROVIDED A MINIMUM OF 3 SECONDS TO MOVE FROM A 70 DEGREE OPEN POSITION TO A POINT 3" FROM THE LATCH.

EFFORT TO OPERATE DOORS:

- INTERIOR DOOR = 5 POUNDS MAX
- EXTERIOR DOOR = 5 POUNDS MAX FIRE DOOR = 15 POUNDS MAX

STATE OF MISSOURI MICHAEL L. PARSON,

GOVERNOR

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DEPARTMENT OF ELEMENTARY & SECONDARY EDUCATION

REPAIR SWIMMING POOL

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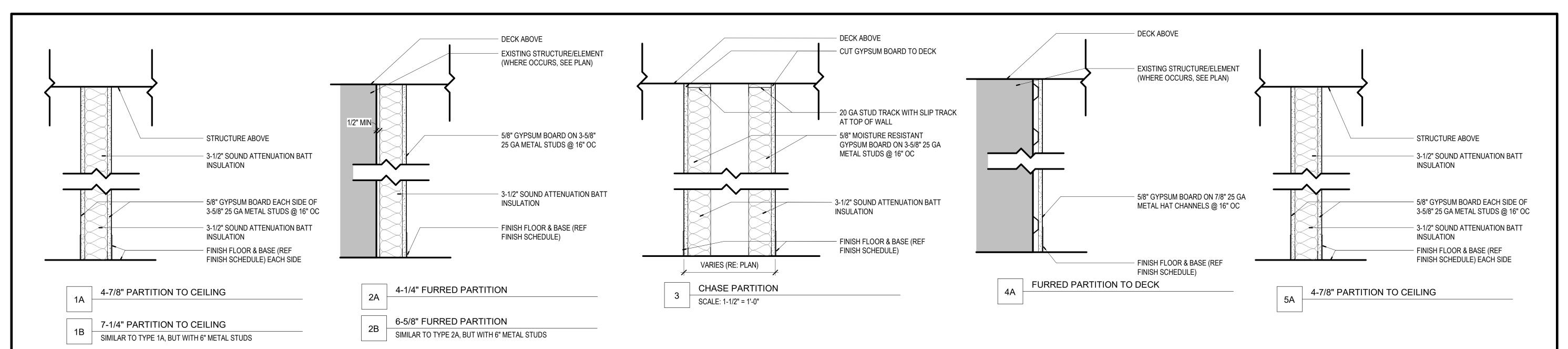
REVISION: REVISION: REVISION: DATE: ISSUE DATE: 07/06/22

CAD DWG FILE: A-901 DRAWN BY: CHECKED BY: MR DESIGNED BY: WD

SHEET TITLE:

DOOR SCHED / DOOR, FRAME **TYPES**

SHEET NUMBER:

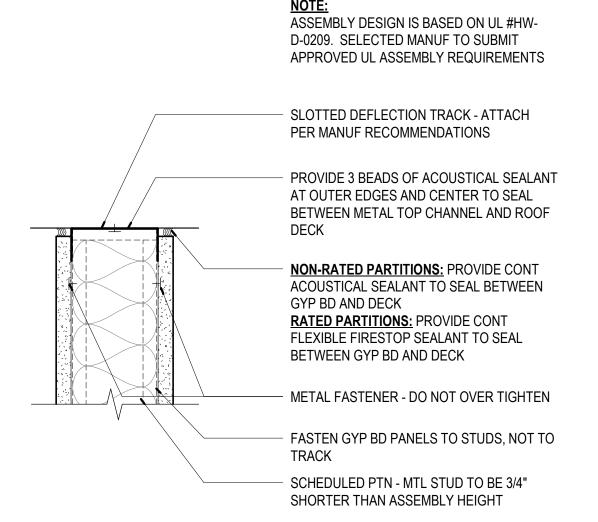


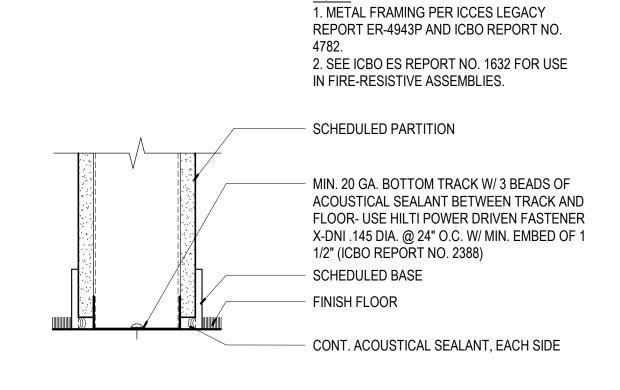
GENERAL NOTES: PARTITIONS

1 PARTITION TYPES

A-902 1 1/2" = 1'-0"

- ALL NEW, EXISTING, AND MODIFIED PARTITIONS TO RECEIVE A LEVEL FOUR (4) DRYWALL FINISH PRIOR TO APPLICATION OF PAINT TO SURFACE TO AVOID PAINT FLASHING. WALL FINISH LEVEL BASED ON GA-214-17 "RECOMMENDED LEVELS OF GYPSUM BOARD FINISH." REFER TO PARTITION TYPES FOR ADDITIONAL INFORMATION.
- CONTROL JOINTS: PROVIDE CONTROL JOINTS ACCORDING TO ASTM C 840 AND IN SPECIFIC LOCATIONS APPROVED BY ARCHITECT FOR VISUAL EFFECT. WHEN POSSIBLE ALIGN WITH DOOR
- PARTITIONS ARE DIMENSIONED TO FACE OF PARTITION UNLESS NOTED OTHERWISE. PROVIDE 6" METAL STUDS AT ALL PARTITIONS WHERE NEW PLUMBING WASTE OR VENT LINES ARE
- INSTALL MOISTURE RESISTANT GYP BOARD AT ALL WET WALLS, INCLUDING BUT NOT LIMITED TO RESTROOM AND SINK LOCATIONS. PROVIDE GYP TILE BACKER BOARD AT ALL WALLS TO RECEIVE
- CERAMIC TILE & SOLID SURFACE SHOWER PANELS. ALL FIRESTOP SYSTEMS TO MEET UL TESTED SYSTEMS. SYSTEMS MUST BE SUBMITTED TO AND APPROVED BY ARCHITECT PRIOR TO INSTALLATION. GC IS TO KEEP A COPY OF ALL APPROVED SYSTEMS ON SITE FOR DURATION OF PROJECT. ALL INSTALLED SYSTEMS MUST BE LABELED AND DOCUMENTED. DOCUMENTATION IS TO BE SUBMITTED TO OWNER AND ARCHITECT UPON COMPLETION OF THE PROJECT.
- PROVIDE THROUGH PENETRATION FIRESTOP SYSTEMS FOR ALL ITEMS PENETRATING FIRE-RATED ASSEMBLIES. PENETRATIONS TO BE DESIGNED, TESTED, AND FIRE-RESISTANCE RATED TO RESIST FOR A PRESCRIBED PERIOD OF TIME THE SPREAD OF FIRE THROUGH PENETRATIONS. PROVIDE UL-LISTED ASSEMBLIES AS REQUIRED.





3 DETAIL - UNDERSIDE OF TRACK

A-902 3" = 1'-0"

2 BASE OF TRACK

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**

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REPAIR SWIMMING POOL

MISSOURI SCHOOL FOR THE BLIND 3815 MAGNOLIA AVENUE ST. LOUIS, MO

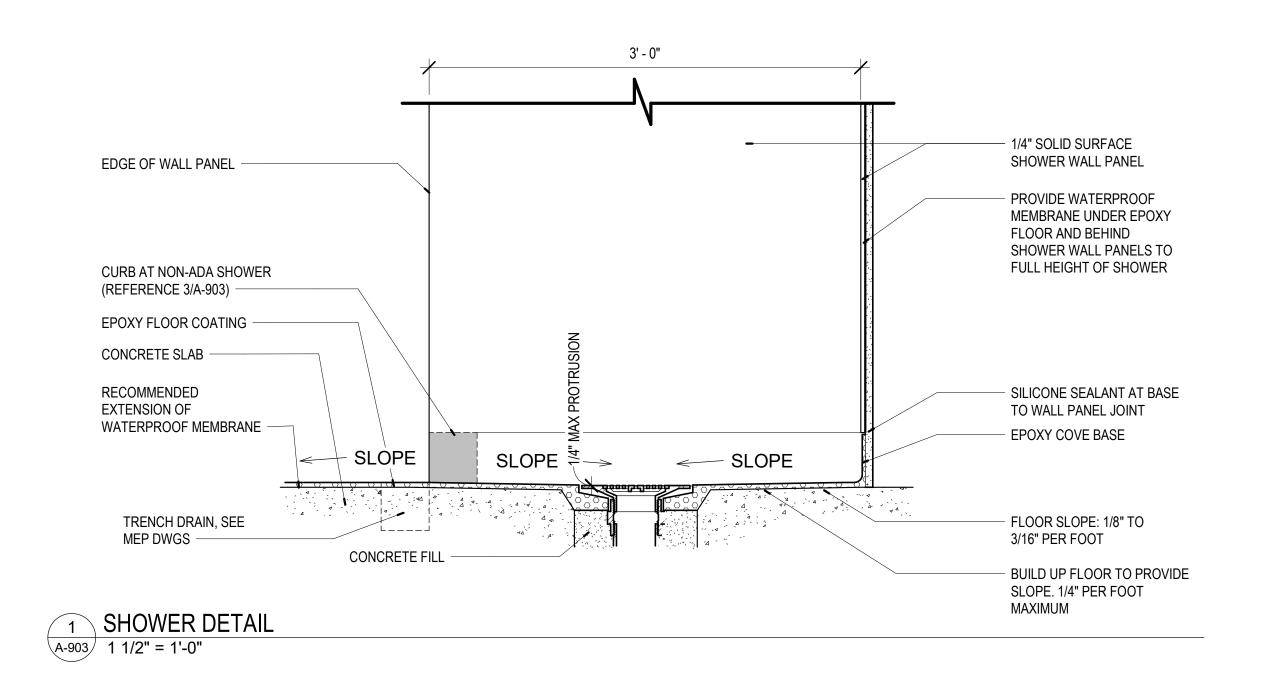
PROJECT # E2107-01 2011 FACILITY # 5012011003, 501201104

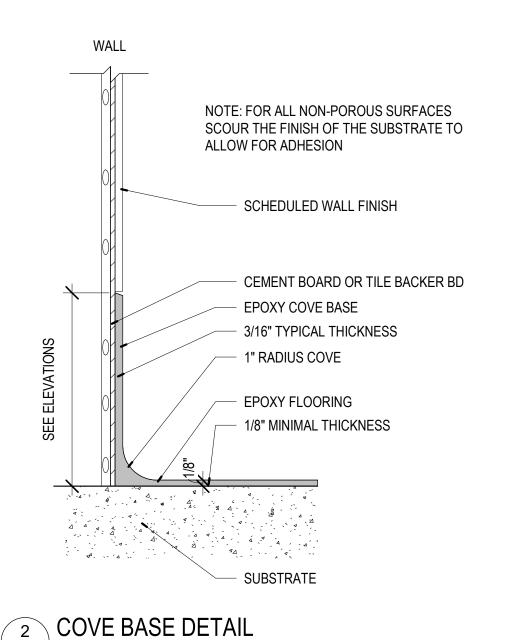
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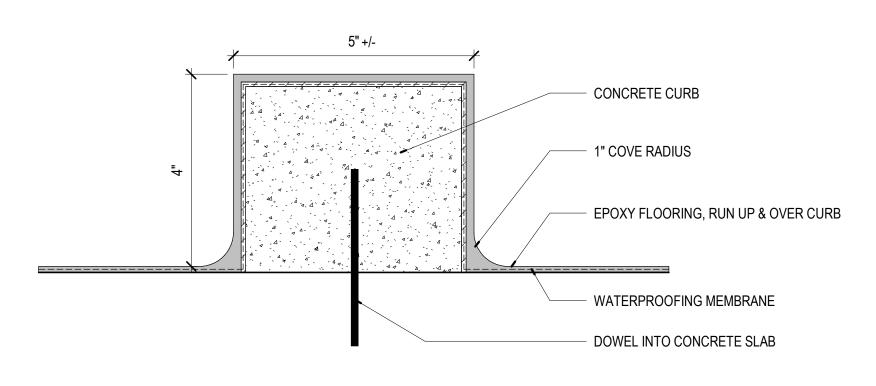
PARTITION TYPES

SHEET NUMBER:





A-903 6" = 1'-0"



3 SHOWER CURB DETAIL
A-903 6" = 1'-0"

SEE PLANS

1/4" SOLID SURFACE (SS-1) ON 1/2" F.T. PLYWOOD

2X4 F.T. WOOD STUD FRAMING

COVE BASE DETAIL (REFER TO 2/A903)

4 LOCKER & BENCH DETAIL

A-903 1 1/2" = 1'-0"

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STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR

MISSOURI STATE CERITIFICATE OF AUTHORITY #00246198



MICHAEL J. RATLIFF, MO #6855

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OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

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REPAIR SWIMMING POOL

MISSOURI SCHOOL FOR THE BLIND 3815 MAGNOLIA AVENUE ST. LOUIS, MO

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07/06/22

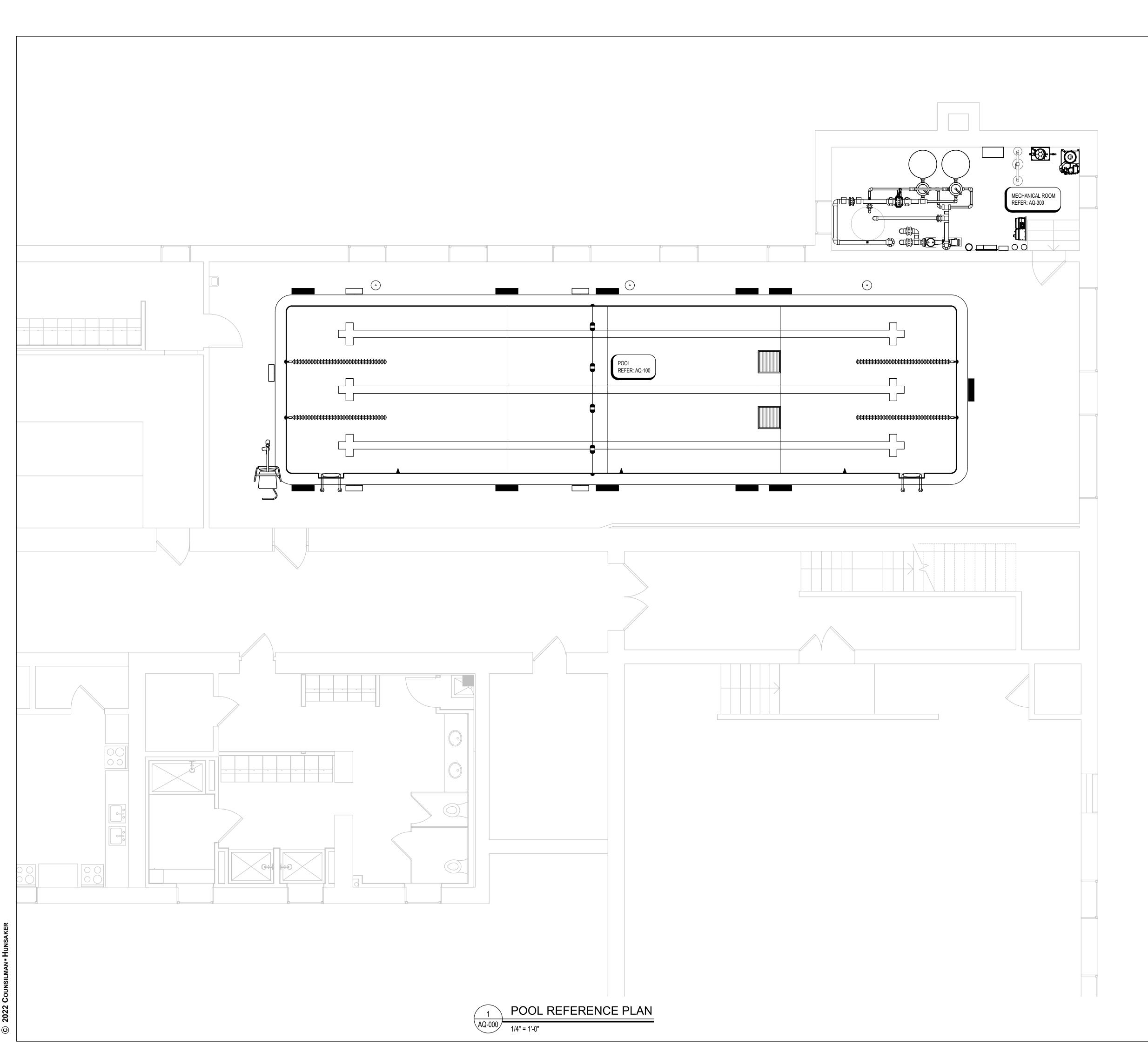
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DESIGNED BY: WD

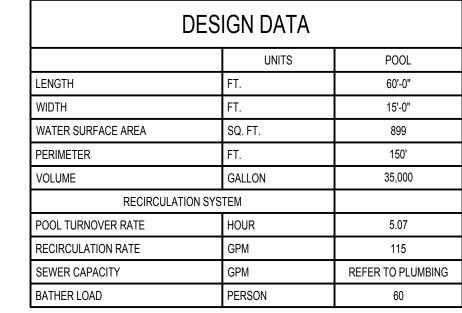
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DETAILS

SHEET NUMBER:

A-903





GENERAL POOL NOTES

- DENOTES WATER DEPTH FROM WATER LEVEL.
- 2. TYPICAL POOL DIMENSIONS SHOWN ARE FROM INSIDE FINISHED POOL WALL.
- B. DEPTH MARKERS AND WARNING SIGNS ARE SHOWN IN APPROXIMATE LOCATIONS. DEPTH MARKERS AND WARNING SIGNS SHALL NOT EXCEED 25'-0" APART FROM EACH OTHER, AND SHALL BE PLACED AT EVEN FOOT INTERVALS PER LOCAL CODE.
- 4. ALL PROPRIETARY NAMES MENTIONED ARE TO DESIGNATE PERFORMANCE STANDARDS. EQUIVALENT PRODUCTS SHALL BE SUBMITTED FOR APPROVAL.
- SLIP RESISTANT DECK FINISH REQUIRED. REFER TO ARCHITECT.
- 6. REFER TO PLUMBING FOR DECK DRAINS AND HOSE BIBBS.
- ALL SURFACE WATER SHALL DRAIN AWAY FROM THE POOL.
- REFER TO ELECTRICAL FOR GFI OUTLETS IN NATATORIUM.
 ELECTRICAL INSPECTOR SHALL APPROVE INSTALLATION OF BONDING GRID FOR POOL REINFORCING AND ALL POOL EMBEDS PRIOR TO PLACEMENT OF
- 10. NO GROUND WATER SHALL BE ALLOWED TO RISE ABOVE ANY PORTION OF THE POOL BOTTOM DURING CONSTRUCTION.
- 11. THE POOL MUST BE WATER TESTED IN ACCORDANCE TO THE HYDROSTATIC TIGHTNESS TESTING OF AN OPEN CONCRETE CONTAINMENT STRUCTURE AS REQUIRED BY THE AMERICAN CONCRETE INSTITUTE (ACI) 350.1-10 SECTION 2. REFER: 8/AQ-303

DRAWING INDEX				
SHEET	DESCRIPTION			
AQ-000	POOL REFERENCE PLAN			
AQ-001	POOL DEMOLITION & RENOVATION PLAN			
AQ-100	POOL PLAN & SECTIONS			
AQ-101	POOL DETAILS			
AQ-200	POOL PIPING PLANS			
AQ-300	POOL MECHANICAL ROOM PLAN & SECTIONS			
AQ-301	POOL MECHANICAL DETAILS			
AQ-302	POOL MECHANICAL DETAILS			
AQ-303	POOL MECHANICAL DETAILS			
AQ-400	POOL SYSTEMS SCHEMATIC			





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OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF ELEMENTARY & SECONDARY EDUCATION

REPAIR SWIMMING POOL

MISSOURI SCHOOL FOR THE BLIND 3815 MAGNOLIA AVENUE ST. LOUIS, MO

PROJECT # E2107-01 SITE# 2011 FACILITY # 5012011003, 501201104

REVISION:
DATE:
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ISSUE DATE: 07/06/2022

CAD DWG FILE:
DRAWN BY: SAM
CHECKED BY: CCS
DESIGNED BY: CCS

SHEET TITLE:

POOL REFERENCE PLAN

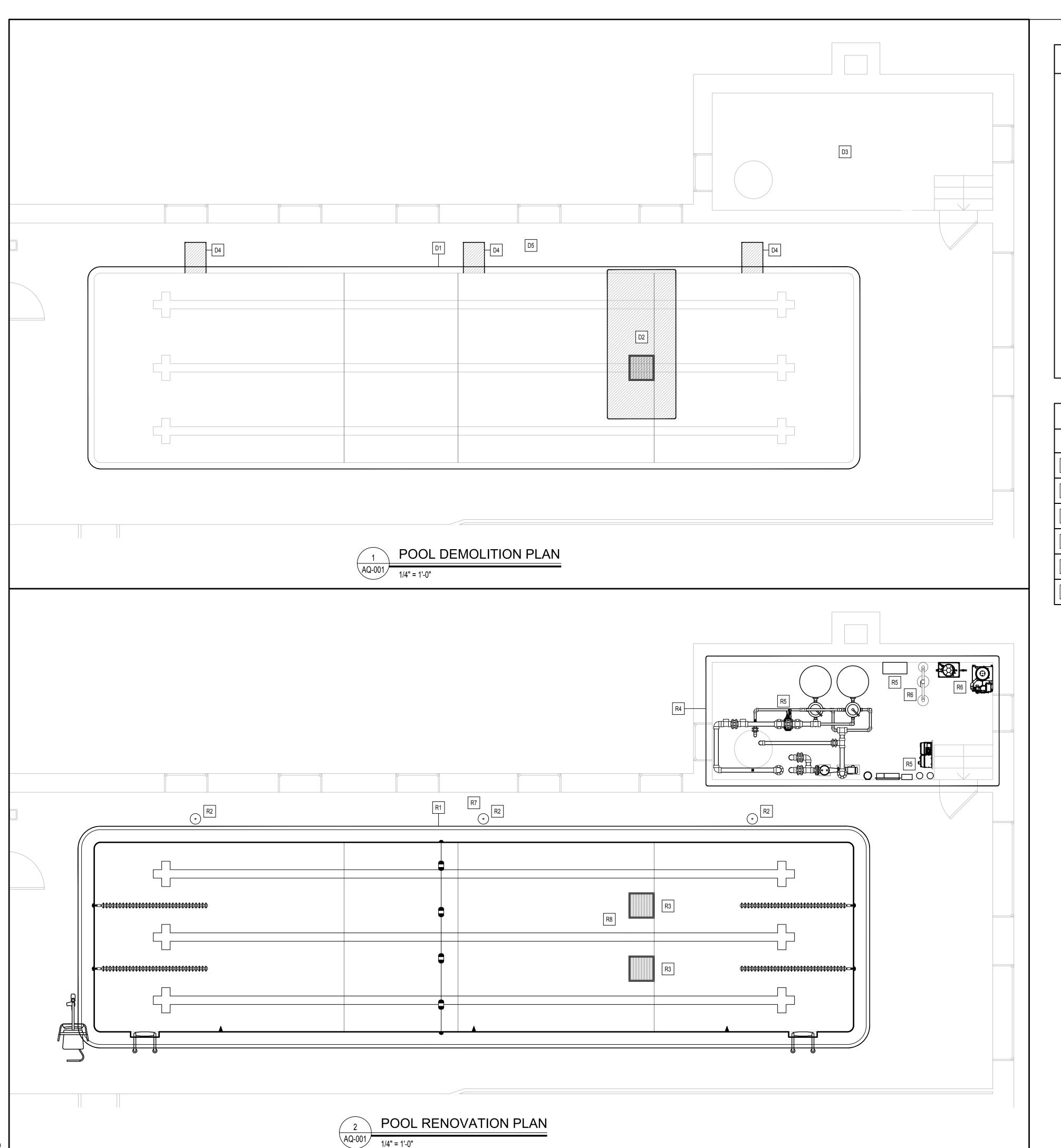
SHEET NUMBER:

AQ-000

19 OF 45 SHEETS 07/06/2022

POOL LOCATION DIAGRAM

COUNSILMAN - HUNSAKER
AQUATICS FOR LIFE
ph: 314.894.1245 - www.chh2o.com



GENERAL POOL DEMOLITION & RENOVATION NOTES

- COORDINATE ALL DEMOLITION PLANS AND WORK WITH ARCHITECT AND CONSTRUCTION DOCUMENTS PRIOR TO THE START OF DEMOLITION.
- REVIEW RECORD DOCUMENTS OF EXISTING CONSTRUCTION PROVIDED BY THE OWNER. NEITHER THE OWNER NOR ENGINEER MAKES ANY GUARANTEE THAT THE EXISTING CONDITIONS REFLECT THOSE INDICATED IN THE RECORD DOCUMENTS. CONTRACTOR TO PROVIDE NOTIFICATION OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND
- CONTRACTOR TO SURVEY EXISTING CONDITIONS AND CORRELATE WITH REQUIREMENTS INDICATED IN THE CONTRACT DOCUMENTS TO DETERMINE THE EXTENT OF DEMOLITION REQUIRED. CONTRACTOR TO RECORD EXISTING CONDITIONS WITH DETAILED PRECONSTRUCTION PHOTOGRAPHS.
- UNLESS OTHERWISE INDICATED, DEMOLITION WASTE BECOMES PROPERTY OF THE CONTRACTOR.
- EXCEPT FOR ITEMS OR MATERIALS INDICATED TO BE RECYCLED, REUSED, SALVAGED, REINSTALLED, OR OTHERWISE INDICATED TO REMAIN OWNER'S PROPERTY, REMOVE DEMOLISHED MATERIALS FROM PROJECT SITE AND LEGALLY DISPOSE OF THEM. OWNER HAS THE FIRST RIGHT OF REFUSAL ON ALL DEMOLITION MATERIALS.
- IF HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB. IMMEDIATELY NOTIFY THE OWNER AND ENGINEER.
- INDICATE RECEIPT AND ACCEPTANCE OF ANY HAZARDOUS WASTES BY A LANDFILL FACILITY LICENSED TO ACCEPT SUCH HAZARDOUS WASTES. MAINTAIN EXISTING UTILITIES TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING DEMOLITION OPERATIONS. REFER TO OTHER TRADES FOR COORDINATION.
- ELECTRICIAN SHALL VERIFY EXISTING BOND GRID. ALL NEW EMBEDS AND MECHANICAL EQUIPMENT SHALL BE BONDED PER NEC ARTICLE 680.
- 10. PRIOR TO DRAINING THE POOLS FOR CONSTRUCTION, THE CONTRACTOR SHALL COMPLETE A WATER TIGHTNESS TEST FOR THE POOL STRUCTURES AND REPORT TEST RESULTS FOR THE ENGINEER TO REVIEW. REFER TO THE SWIMMING POOL SPECIFICATION FOR TESTING REQUIREMENTS.
- CONTRACTOR TO DRAIN AND FILL POOL AT A RATE NOT TO EXCEED 1" OF POOL DEPTH PER HOUR AND AT A WATER TEMPERATURE WITHIN 10 DEGREES FAHRENHEIT OF AMBIENT TO CONTROL MOISTURE AND THERMAL SHOCK TO THE TILE.
- 12. ALL EXISTING BELOW GRADE POOL PIPING SYSTEMS SHALL BE HYDROSTATICALLY (WATER) PRESSURE TESTED FOR LEAKS BEFORE THE START OF CONSTRUCTION TO VERIFY WATER TIGHTNESS. PNEUMATIC (AIR) TESTING NOT PERMITTED. REPORT TEST RESULTS TO THE ENGINEER TO REVIEW. REFER TO THE SWIMMING POOL SPECIFICATION FOR
- 13. PROTECT ALL EXISTING POOL FINISHES AND ANY OTHER POOL RELATED APPURTENANCES DURING CONSTRUCTION.
- 14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTINUOUSLY MONITORING GROUNDWATER LEVELS ON THE SITE DURING ANY AND ALL PERIODS WHEN THE SWIMMING POOL IS NOT FULL OF WATER. PROTECTION OF THE EXISTING POOL STRUCTURE FROM DAMAGE DUE TO HYDROSTATIC PRESSURE IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 15. CONTRACTOR TO PROVIDE AND EXECUTE APPROVED DUST CONTROL PLAN.
- 16. ALL AREAS OF WORK MUST HAVE DOUBLE CONTAINMENT AND DEDICATED EXHAUST INDEPENDENT OF HVAC.
- 17. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT, AND DEBRIS FOLLOWING DEMOLITION OPERATIONS. CONTRACTOR TO RETURN ADJACENT AREAS TO

POOL DEMOLITION KEYNOTES COORDINATE ALL DEMOLITION PLANS WITH ARCHITECT AND CONSTRUCTION

- REMOVE GUTTER (ENTIRE PERIMETER)
- D2 REMOVE MAIN DRAIN SUMP & POOL SLAB IN THE AREA INDICATED ON PLAN

REMOVE PIPING BELOW THE POOL DECK AS SHOWN ON THE DRAWINGS

DOCUMENTS PRIOR TO DEMOLITION

- D3 REMOVE ALL POOL MECHANICAL EQUIPMENT AND EXPOSED PIPING
- REMOVE DECK FOR INSTALLATION OF NEW POOL SKIMMERS
- D5 REMOVE POOL LADDERS & ANCHORS

COORDINATE ALL RENOVATION PLANS WITH ARCHITECT AND CONSTRUCTION DOCUMENTS PRIOR TO RENOVATION

PROVIDE NEW COPING STONE, WARNING SIGNS, & DEPTH MARKERS AT TOP OF R1 POOL WALL REFER: 5/AQ-101

- REFER: 2/AQ-303
- PROVIDE NEW MAIN DRAINS
- REFER: 3/AQ-303
- PROVIDE NEW RECIRCULATION PUMP, FILTER, & PIPING. HEATER BY OTHERS
- R5 PROVIDE NEW WLC & UV SYSTEM REFER: POOL MECHANICAL DETAILS
- REFER: CHEMICAL FEED SCHEDULE

- R8 COVE. REFER: 3/AQ-101

POOL RENOVATION KEYNOTES

- PROVIDE NEW SKIMMERS

- R4 PROVIDE NEW RECIRCULATION PUMP
 REFER: POOL MECHANICAL DETAILS
- PROVIDE NEW SWIMMING POOL CHEMICAL TREATMENT SYSTEM & EYEWASH
- PROVIDE NEW UNDERDECK PIPING
- REPLACE DAMAGED/DEMOLISHED TILES AS NECESSARY/INCLUDING POOL

- R9 PROVIDE NEW POOL LADDERS & ANCHORS REFER: 2/AQ-101



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REPAIR SWIMMING POOL

MANAGEMENT, DESIGN

AND CONSTRUCTION

3815 MAGNOLIA AVENUE ST. LOUIS, MO

STATE OF MISSOURI

MICHAEL L. PARSON,

GOVERNOR

ERICH ALLEN

FROESCHNER

PE-2012018066

EXP 31 DEC 2022

PROJECT # E2107-01 2011 FACILITY # 5012011003,

501201104

ISSUE DATE: 07/06/2022

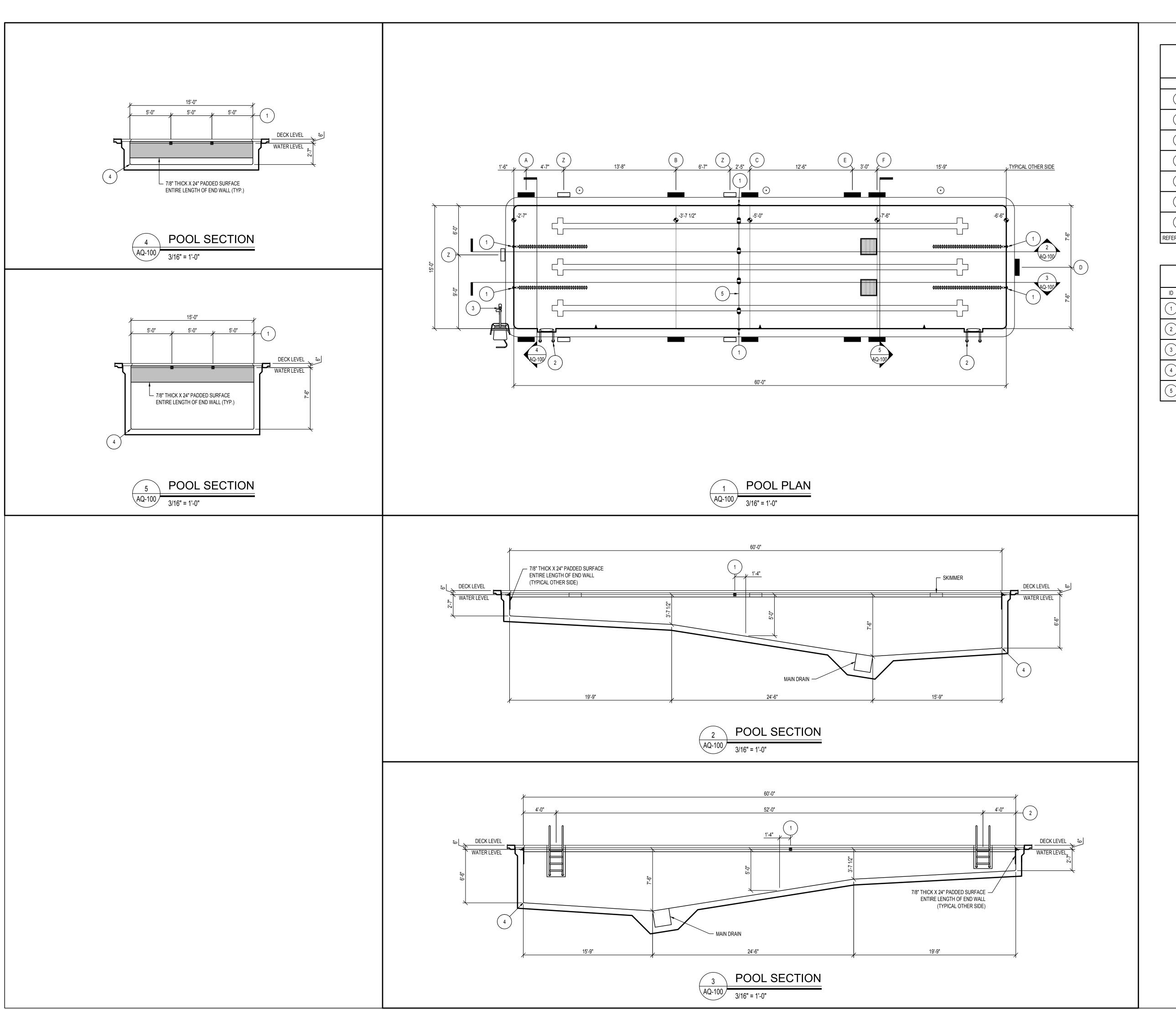
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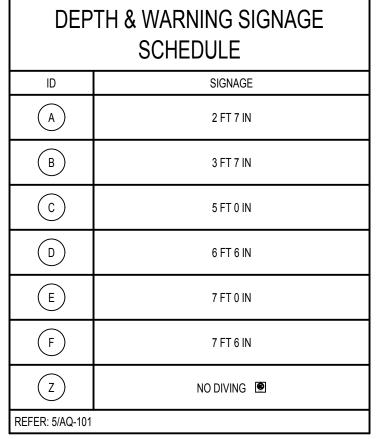
SHEET TITLE: POOL

DEMOLITION & RENOVATION

PLAN SHEET NUMBER:







F	POOL EQUIPMENT SCHEDULE
ID	ITEM
1	LANE/SAFETY ROPE CUP ANCHOR REFER: 1/AQ-101
2	REMOVABLE LADDER REFER: 2/AQ-101
3	POOL LIFT & ANCHOR REFER: 4/AQ-101
4	POOL COVE REFER: 3/AQ-101
5	SAFETY ROPE



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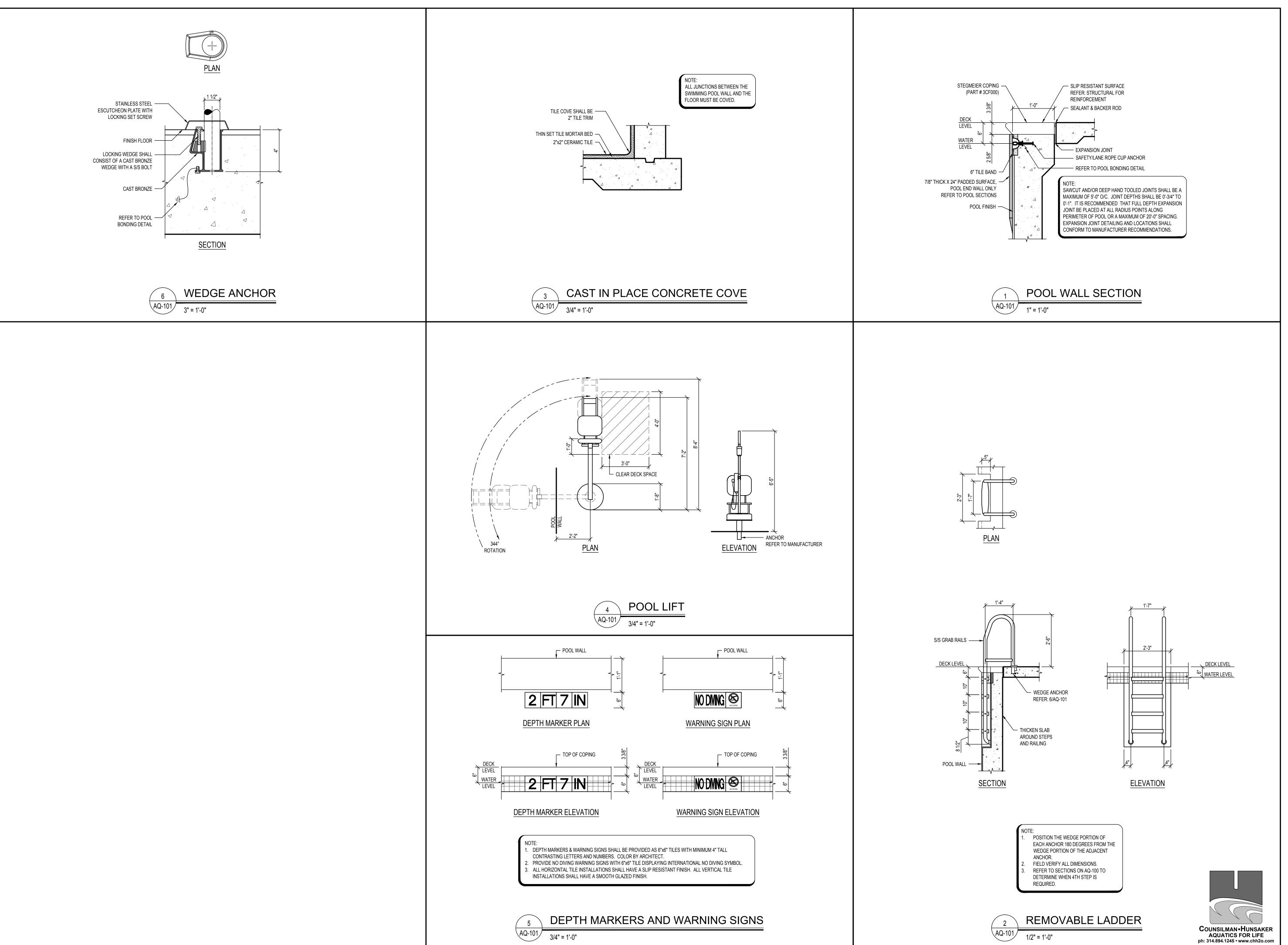
POOL PLAN & SECTIONS

SHEET NUMBER:

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21 OF 45 SHEETS 07/06/2022

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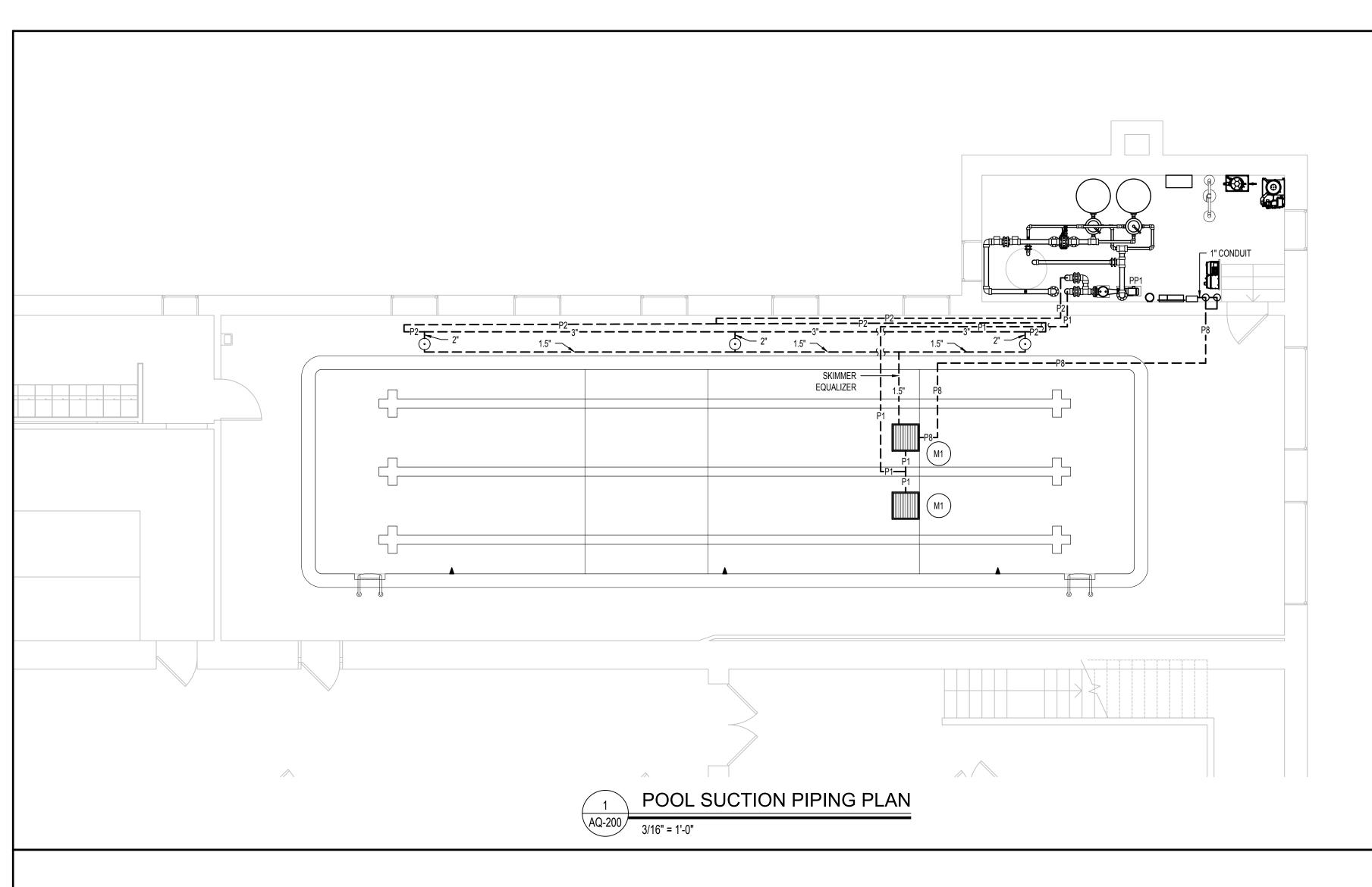
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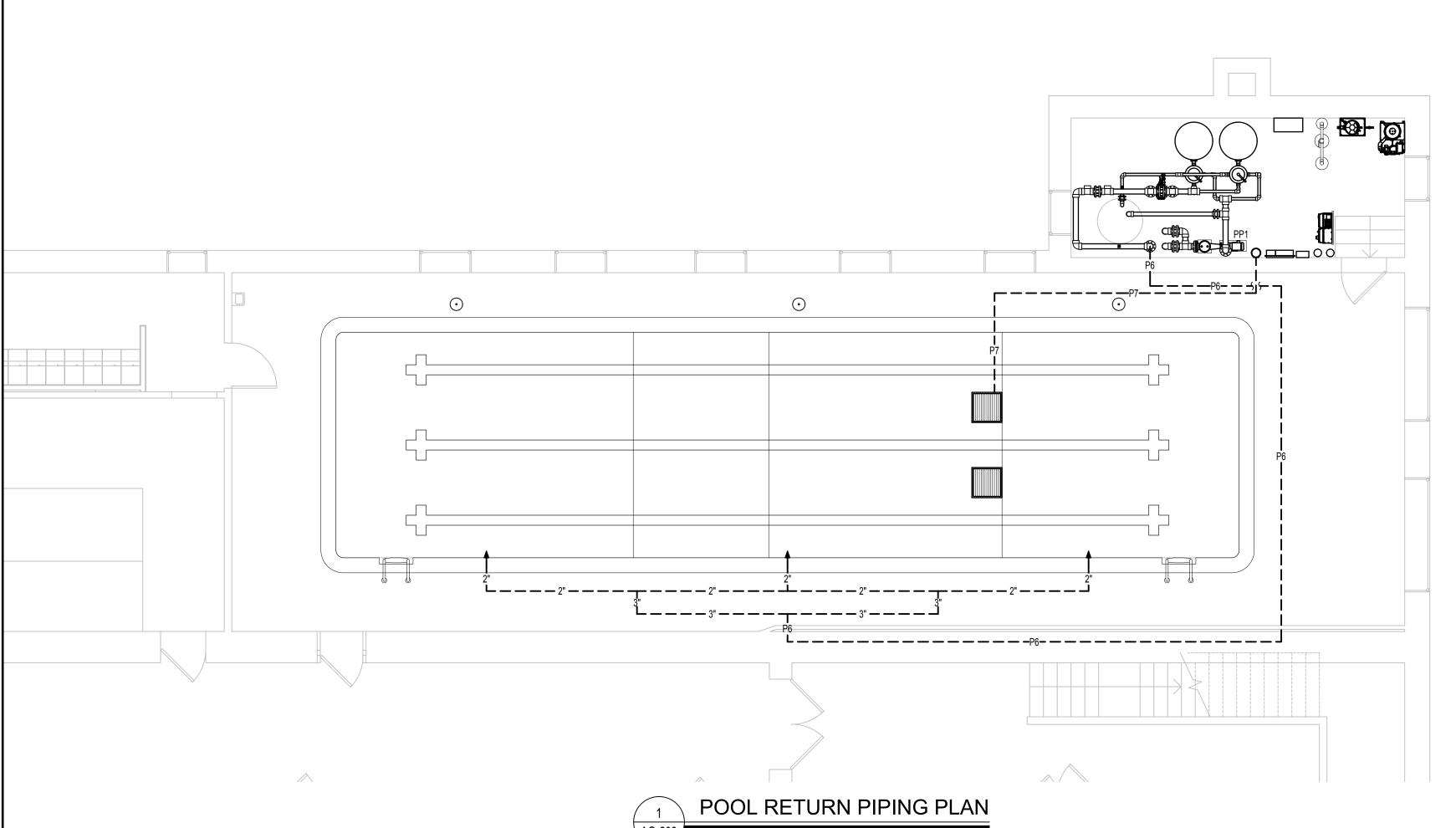
SHEET TITLE:

POOL DETAILS

SHEET NUMBER:

AQ-101





GENERAL PIPING NOTES

- 1. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERATIONAL PIPING SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
- PIPE SIZES INDICATED ARE NOMINAL, I.P.S.
- UNLESS OTHERWISE NOTED, ALL OVERHEAD PIPING SHALL BE TIGHT TO UNDERSIDE OF STRUCTURE OR SLAB.
- ALL BALANCING VALVES AND BUTTERFLY VALVES SHALL BE PROVIDED WITH POSITION INDICATORS AND MAXIMUM ADJUSTABLE STOPS (MEMORY STOPS).
- 5. ALL VALVES SHALL BE INSTALLED SO THAT THE VALVE REMAINS IN SERVICE WHEN THE EQUIPMENT OR PIPING ON THE EQUIPMENT SIDE OF THE VALVE IS REMOVED.
- 6. PROVIDE CHAIN WHEEL OPERATORS FOR ALL VALVES IN EQUIPMENT ROOMS MOUNTED GREATER THAN 7'-0" ABOVE FINISHED FLOOR; CHAIN SHALL EXTEND TO 7'-0" ABOVE FINISHED FLOOR LEVEL.
 - ALL VALVE HARDWARE MUST BE 316L STAINLESS STEEL AND MEET ANSI HARDWARE INSTALLATION GUIDELINES. REFER: 6/AQ-303
- 8. INSTALL ALL PIPING WITHOUT FORCING OR SPRINGING.
- ALL PIPING WORK SHALL BE COORDINATED WITH ALL TRADES AND SITE CONDITIONS. OFFSETS, EXPANSION LOOPS, OR TRANSITIONS IN PIPING AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- 10. ALL PIPING INDICATED SHALL BE CONSIDERED DIAGRAMMATIC.
- 1. ALL SWIMMING POOL PIPING ROUTED BELOW THE POOL SHELL SHALL BE CONCRETE ENCASED SCHEDULE 40 PVC. REFER: 10/AQ-302
- 2. ALL UNDERGROUND OR EXPOSED SWIMMING POOL PIPING SHALL BE SCHEDULE 80 PVC, UNLESS OTHERWISE NOTED. CONTRACTOR SHALL REFER TO PLANS AND SPECIFICATIONS FOR ANY SPECIFIC REQUIREMENTS REGARDING PLACEMENT AND BACKFILLING OF BELOW GRADE POOL PIPE.
- 13. ALL DIMENSIONS INDICATED FROM THE FINISH WALL SURFACE AND DO NOT ACCOUNT FOR ANY VARIATIONS IN EITHER GRADE OR SLOPE DISTANCES.
- 14. THE CHEMICAL SENSOR LINE SHALL BE A 3/4" TO 1" DIAMETER, SCHEDULE 80 PVC PIPE EXTENDED FROM THE WET CELL SENSOR TO ITS RESPECTIVE FILL FUNNEL AND THE BACKWASH CATCH BASIN OR PUMP SUCTION.
- 15. ALL PIPE TEES SHALL BE SIZED FOR LARGEST PIPE CONNECTION.

			PUMI	SCHEDU	LE						
ſ	ID	DESCRIPTION	MANUFACTURER	MODEL	SIZE	GPM	TDH	HP	NPSHR	HAIR/LII	
L										MAKE	SIZE
	PP1	COMPETITION POOL RECIRCULATION PUMP REFER: 1/AQ-301	PACO	15507 LC	4 X 4	115	73	5	5.27	MER-MADE	4X4

NOTE:

- THE MANUFACTURER INDICATED IS BASIS OF DESIGN. PUMP MANUFACTURERS: ITT MARLOW, GRISWOLD, PACO OR AURORA MUST BE CONSIDERED EQUAL
- PROVIDED THEY MEET SPECIFICATIONS AS INDICATED IN BID DOCUMENTS.

 POOL PUMPS AND STRAINERS MUST BE INSTALLED ON HOUSEKEEPING PADS.
- 3. PROVIDE INFLUENT AND EFFLUENT GAUGES FOR EACH PUMP. PRESSURE GAÜGES HAVE A RANGE OF 0-60 PSI. COMPOUND GAUGES HAVE A RANGE OF 0-30 HG /
- 4. PROVIDE CHECK VALVE.
- PROVIDE VARIABLE FREQUENCY DRIVE.
 PROVIDE WITH 208 VOLT, 3 PHASE, 60HZ, 3530 RPM MOTOR.

	MAIN DRAIN SCHEDULE									
ID	DESCRIPTION	SIZE	QTY	DESIGN FLOW (GPM)	DESIGN VELOCITY (FPS)	MFG ALLOWABLE FLOW @ COVER (GPM)	MAX SYSTEM FLOW (GPM)	MODEL	MANUFACTURER	NOTES
M1	MAIN DRAINS	18" X 18"	2	115	0.10	816	816	MLD-FGD-1818	NEPTUNE BENSON	1-7

NOTE: . MAIN DRAIN GRATING MUST BE MANUFACTURED BY NEPTUNE BENSON.

2. MAXIMUM FACE VELOCITY MUST NOT EXCEED 1.5 FEET PER SECOND.

B. THE INSTALLED LIFE OF THE MAIN DRAIN COVER MUST BE 10 YEARS.

4. ALL MAIN DRAINS MUST BE INSTALLED IN THE POOL FLOOR. WALL SUMPS WILL NOT BE PERMITTED.

5. FASTEN MAIN DRAIN COVER TO EMBEDDED PVC FRAME/POOL FLOOR WITH S/S TAMPER PROOF FASTENERS AT A SPACING NO GREATER THAN 24" O.C. REFER TO FRAME AND GRATE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

6. PROVIDE WATER BONDING FITTING IN MAIN DRAIN SUMP AT DEEPEST SECTION OF THE POOL. BASIS OF DESIGN: PERMA-CAST SWIMMING POOL PRODUCTS MODEL PB-SK-20.
 7. PROVIDE HYDROSTATIC RELIEF VALVE IN EACH MAIN DRAIN. BASIS OF DESIGN: HAYWARD MODEL SP1056 & SP1055.

			PIPIN	G LEGEND	
	LEGEND	QTY.	ITEM	MAKE	MODEL
	A	3	WALL INLET REFER: 1/AQ-303	HAYWARD	SP1421E & SP1022S
		2	MAIN DRAIN REFER: 3/AQ-303	REFER TO MAIN DRAIN	N SCHEDULE
	\odot	3	SKIMMER REFER: 2/AQ-303	STA-RITE	U-3 #08650-1403 (WHITE)
[-		N/A	BELOW GRADE PIPING	CHEMTROL	SCH 80 PVC

	PIPE SCHEDULE
ID	DESCRIPTION
P1	4" FROM M1 TO PP1
P2	4" FROM SKIMMERS TO PP1
P3	4" FROM PP1 TO P9 & P10
P4	3" FROM P3 TO BACKWASH BASIN
P5	2" FROM FILTERS TO BACKWASH BASIN
P6	4" FROM P11 & P12 TO INLETS
P7	3" FROM FILL FUNNEL TO M1
P8	2" FROM WATER LEVEL CONTROLLER STANDPIPES TO M1
P9	2" FROM P3 TO FILTER
P10	2" FROM P3 TO FILTER
P11	2" FROM FILTER TO P6
P12	2" FROM FILTER TO P6



STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



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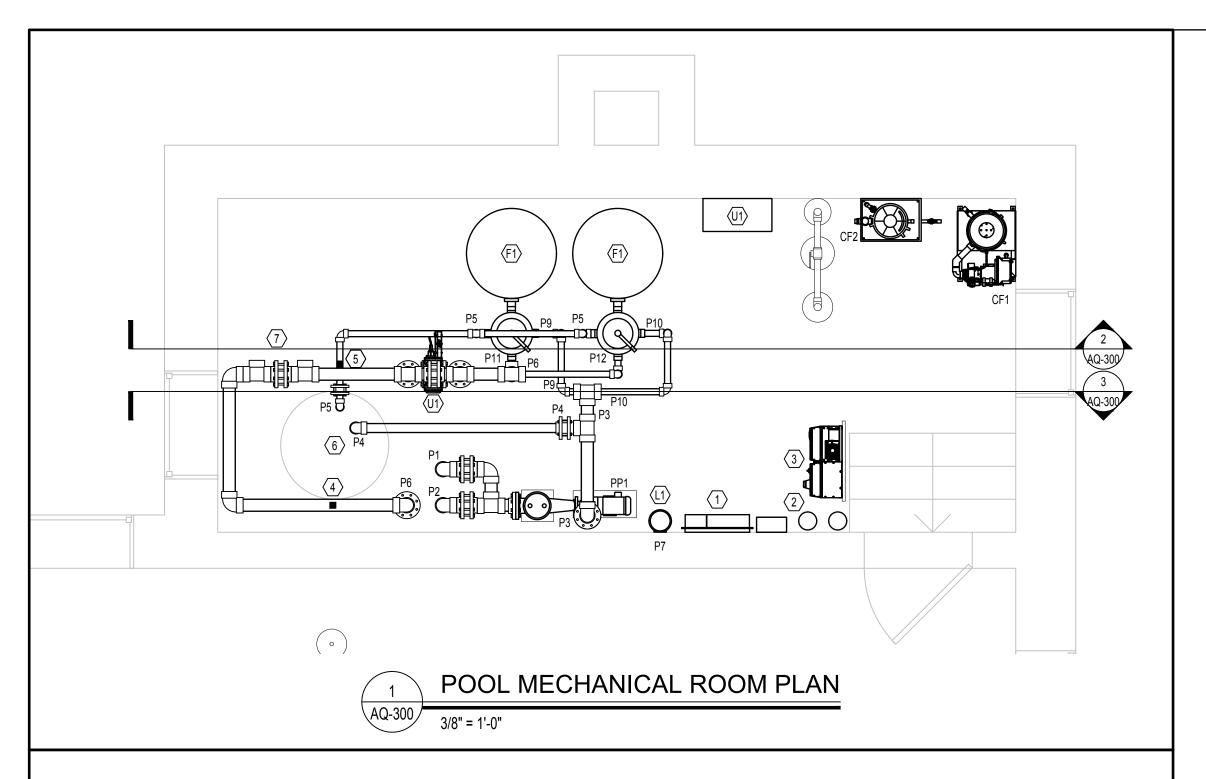
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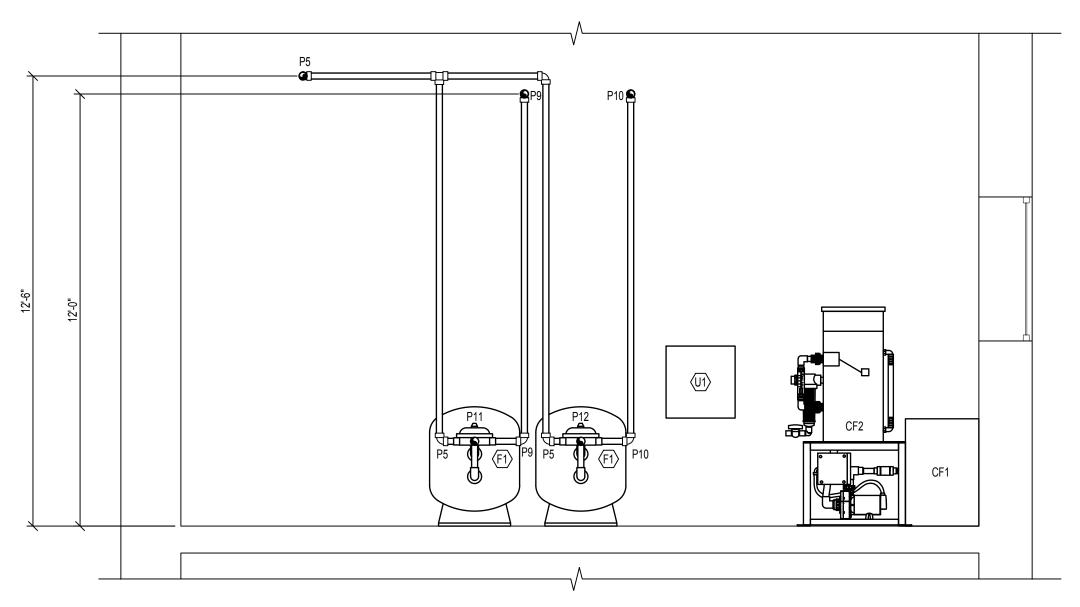
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POOL PIPING PLANS

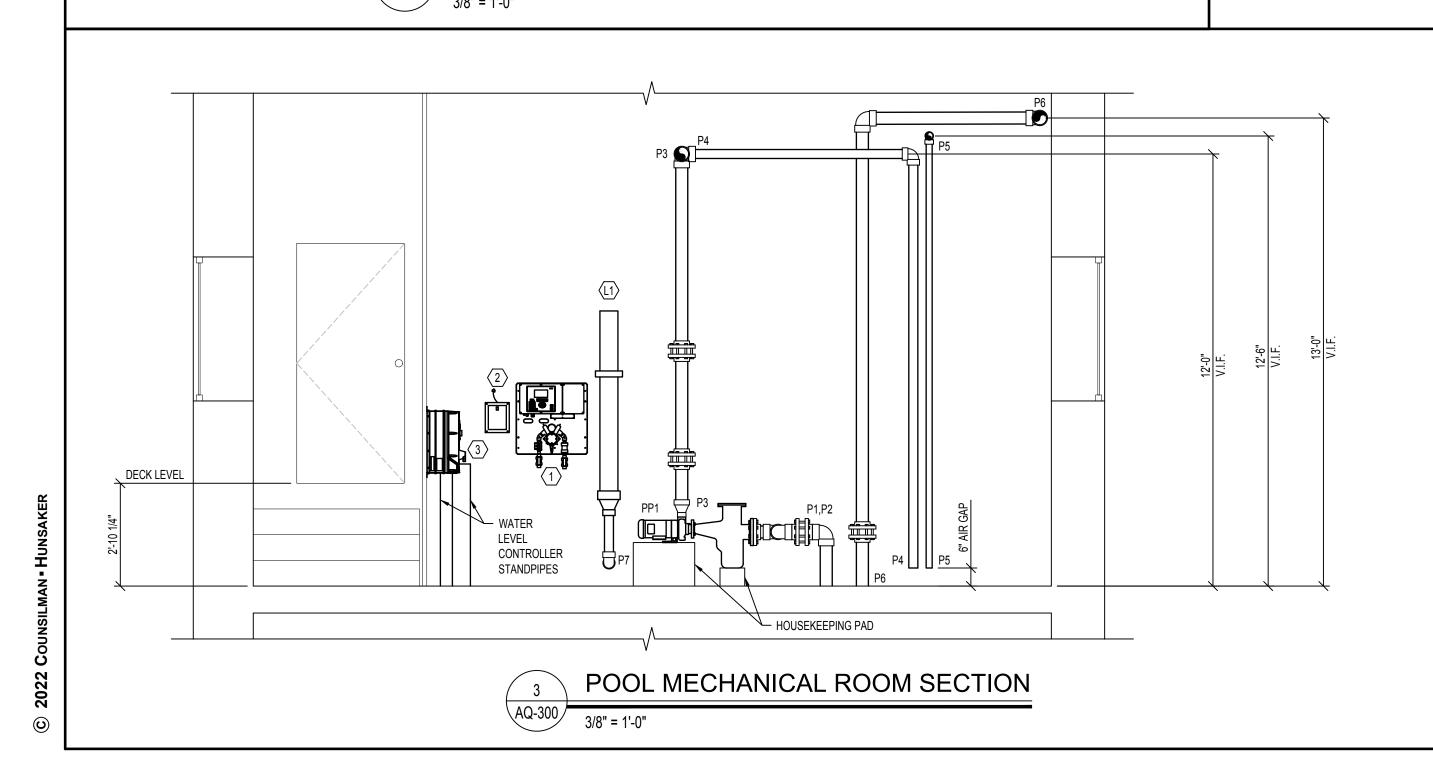
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AQ-200





POOL MECHANICAL ROOM SECTION



UV TREATMENT SYSTEMS SCHEDULE US EPA 3-LOG AND VOLTAGE (V) WITH CALCULATED 60 **POWER** CALCULATED BREAKER SIZE MODEL NUMBER MJ/CM2 (GPM) 40MJ/CM2 (GPM) (50 OR 60 HZ) WF-115-3-N 1 @ 1.5KW 208 V (1Φ)-20A

- 1. THE BASIS OF DESIGN MANUFACTURER IS EVOQUA TECHNOLOGIES LTD. ALTERNATE MANUFACTURER: PROMINENT,
- AQUIONICS OR APPROVED EQUAL. . INTERLOCK UV SYSTEM WITH CHEMICAL CONTROLLER OR RECIRCULATION PUMP.
- 3. REFER: 3/AQ-301

	FILL SCHEDULE						
ID	FRESH WATER SUPPLY GPM (MIN.)	FILL FUNNEL SIZE	REDUCER SIZE	SPLASH COLLAR SIZE	FILL LINE SIZE TO POOL	DESIGN FILL TIME (HOURS)	
(L1)	24	6"	6" X 4"	4"	3"	24	
	NOTES: REFER: 1/AQ-302						

CHEMICAL FEED SCHEDULE						
ID	DESCRIPTION	MANUFACTURER	MODEL	TUBE #	HP	FLOW
CF1	CHLORINATION BOOSTER PUMP REFER: 2/AQ-301	ACCUTAB	1030	N/A	1	67 LBS/DAY
CF2	ACID FEED PUMP REFER: 5/AQ-301	ACID-RITE	450	N/A	1	12 LBS/HR

- . THE MANUFACTURER INDICATED IS BASIS OF DESIGN. PROVIDE WITH 120 VOLT, SINGLE PHASE, ADJUSTABLE FEED.
- . INTERLOCK WITH POOL RECIRCULATION PUMP.

	PIPE SCHEDULE
ID	DESCRIPTION
P1	4" FROM M1 TO PP1
P2	4" FROM SKIMMERS TO PP1
P3	4" FROM PP1 TO P9 & P10
P4	3" FROM P3 TO BACKWASH BASIN
P5	2" FROM FILTERS TO BACKWASH BASIN
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P8	2" FROM WATER LEVEL CONTROLLER STANDPIPES TO M1
P9	2" FROM P3 TO FILTER
P10	2" FROM P3 TO FILTER
P11	2" FROM FILTER TO P6
P12	2" FROM FILTER TO P6

CONTRACTOR SUPPLIED POOL CHEMICALS				
DESCRIPTION	AMOUNT			
CALCIUM HYPOCHLORITE	FULL FEEDER(S) + 50 LBS			
SODIUM BISULFATE	FULL FEEDER + 50 LBS			
SODIUM BICARBONATE	200 LBS			
CALCIUM CARBONATE	100 LBS			
SODIUM THIOSULFATE	50 LBS			

	EQUIPMENT SCHEDULE					
ID	ITEM					
1	CHEMICAL CONTROLLER REFER: 4/AQ-301					
2	WATER LEVEL CONTROLLER & STANDPIPES REFER: 7/AQ-303					
3	VARIABLE FREQUENCY DRIVE AND BYPASS PANEL (MOUNTED ON FLOOR TO CEILING UNISTRUT)					
4	FLOW METER SENSOR REFER: 2/AQ-302					
5	IMPACT FLOW METER REFER: 3/AQ-302					
6	EXISTING BACKWASH BASIN (36" DIAMETER)					
7	HEATER TEES REFER: 7/AQ-301					

GENERAL POOL MECHANICAL ROOM NOTES

THE FOLLOWING INFORMATION MUST BE LAMINATED AND POSTED IN THE POOL MECHANICAL ROOM: BACKWASH PROCEDURE, POOL FILLING AND DRAINING, VALVE REFERENCE CHART, POOL MECHANICAL ROOM PLAN, POOL PIPING SCHEMATICS AND POOL SYSTEMS SCHEMATICS.

1. MINIMUM 7'-0" CLEARANCE BENEATH ALL OVERHEAD PIPING.

- 2. PROVIDE AND SUPPORT OVERHEAD AND VERTICAL PIPING PER SPECIFICATION REQUIREMENTS.
- 3. LABEL AND IDENTIFY ALL PIPING IN COMPLIANCE WITH THE SPECIFICATIONS.
- L. ALL FLOW METERS MUST BE SIZED TO MATCH THE PIPE ON WHICH IT IS INSTALLED. PROVIDE PRESSURE GAUGES ON INFLUENT AND EFFLUENT SIDE OF EACH FILTRATION SYSTEM AND A FULL LINE SIZE FLOW METER ON FILTER RETURN.
- HYDROSTATICALLY TEST ALL PIPING AT 50 PSI FOR TWO HOURS AND MAINTAIN A PRESSURE OF 20 PSI IN ALL PIPING THROUGHOUT CONSTRUCTION. SECURE ALL FIXTURES PER SPECIFICATION REQUIREMENTS BEFORE HYDROSTATIC TEST.
- 6. REFER TO DETAILS 4-9 ON DRAWING AQ-302 FOR INSTALLATION OF PIPE SUPPORTS.

CHEMICAL TREATMENT

- CHEMICAL FEED REQUIREMENTS REFER TO THE POOL SYSTEMS SCHEMATIC(S) ON AQ-400.
- NOTERLOCK POOL RECIRCULATION PUMP WITH ITS CORRESPONDING WATER CHEMISTRY CONTROLLER, CHEMICAL FEED PUMP(S), AND HEATER(S).
- PROVIDE SIGNAGE ON MECHANICAL ROOM DOORS IN COMPLIANCE WITH THE STATE FIRE CODE. REFER: 8/AQ-301
- SECURE CHEMICAL METERING PUMP FEED LINES TO WALL AND/OR OVERHEAD WITH CLIPS OR DEVICES THAT DO NOT CRIMP, DISTORT OR ALLOW HIGH AND LOW AREAS IN TUBING RUNS. PROVIDE CHECK VALVE AND SHUT-OFF VALVE BEFORE LINES ENTER POOL RETURN PIPING.
- WATER CHEMISTRY CONTROLLERS MUST CONTROL THE SANITIZING SYSTEM AND PH CONTROL SYSTEM AND SHUT THEM DOWN UPON LOSS OF SAMPLE STREAM FLOW.
- SAMPLE FEED PIPING TO/FROM THE RECIRCULATION SYSTEM TO THE WATER CHEMISTRY CONTROLLER MUST BE PIPED PER THE SYSTEMS SCHEMATIC. BYPASS PIPING MUST BE SADDLED OR TEED. NO TAPPING OR DRILLING INTO THE PIPING WILL BE ALLOWED.
- VERIFY REMOTE ACCESS CAPABILITY TO ALL CHEMICAL CONTROLLERS. REFER TO ELECTRICAL.
- INSTALL SANITIZER INJECTION POINT DOWNSTREAM OF PH BUFFER INJECTION POINT ON FILTERED WATER RETURN PIPE. CHEMICAL INJECTION POINTS MUST BE LOCATED DOWNSTREAM OF ALL OTHER EQUIPMENT/SYSTEMS IN THE POOL MECHANICAL ROOM AT A MAXIMUM HEIGHT OF 7'-0" ABOVE FINISHED FLOOR. REFER: 6/AQ-301

- 1. GFCI'S PROVIDED AT OUTLETS. REFER TO ELECTRICAL.
- 2. POOL EQUIPMENT ROOM AND CHEMICAL STORAGE AREAS MUST BE PROVIDED WITH ARTIFICIAL LIGHTING SUFFICIENT TO ILLUMINATE ALL EQUIPMENT AND SUPPLIES. REFER TO ELECTRICAL.
- 3. CONDUIT MUST BE ROUTED OVERHEAD OR BELOW GRADE.
- 4. PROVIDE ELECTRICAL CONNECTION TO POOL HEATERS. REFER TO ELECTRICAL.

ID	MANUFACTURER	FILTER MODEL	QTY.	FILTRATION TYPE	MAXIMUM FILTRATION RATE (GPM/SQ. FT)	REQUIRED FILTRATION AREA (SQ. FT.)	DESIGN FILTRATION RATE (GPM/SQ.FT.)	DESIGN FILTRATION AREA (SQ. FT.)	FILTER BACKWASH RATE (GPM/SQ. FT.)	BACKWASH FLOW RATE PER FILTER (GPM)
(F1)	PENTAIR	TRITION TR 100	2	HRS	15.0	8.8	13.0	9.82	15.0	74

- ALL FILTER SUPPORTS MUST BE SEISMICALLY RATED FOR THE SEISMIC ZONE IN WHICH IT IS INSTALLED IN ACCORDANCE WITH LOCAL AND/OR STATE REQUIREMENTS.
- 3. FILTER MANUFACTURER MUST CERTIFY FILTER MEDIA. . VALVES MUST BE PROVIDED TO BACKWASH EACH FILTER VESSEL INDEPENDENTLY.
- THE BACKWASH PIPING MUST TERMINATE NO CLOSER THAN 6" ABOVE THE FLOOD RIM OF THE BACKWASH CATCH BASIN OR TWICE THE PIPE DIAMETER, WHICHEVER IS GREATER. 6. FILTER TANK ASSEMBLIES MUST BEAR THE NATIONAL SANITATION FOUNDATION SEAL OF APPROVAL FOR A MAXIMUM FLOW RATE 20 GPM PER SQUARE FOOT OF FILTER MEDIA.
- THE BACKWASH THROTTLING VALVE(S) HANDLE MUST BE REMOVED AND TURNED OVER TO THE OWNER ONCE THE BACKWASH FLOW RATE(S) HAVE BEEN TESTED, ADJUSTED AND BALANCED.
-). VESSEL MUST BE BACKWASHED AT NO LESS THAN 15.0 GPM/SF.
- 10. PROVIDE MILLED ANGULAR SHAPED PARTICLES OF SILICA QUARTZ FOR FILTER MEDIA. PARTICLE SIZE MUST BE BETWEEN 0.45MM AND 0.55MM AND HAVE A MAXIMUM UNIFORMITY COEFFICIENT OF 1.53.

	PUMP SCHEDULE									
ID	DESCRIPTION	MANUFACTURER	MODEL	SIZE	GPM	TDH	HP	NPSHR	HAIR/LINT	
ID	DEGONI HON	WARDI ACTORER WODEL		OIZL	OI W	IDII	1"	IVI OI II	MAKE	SIZE
PP1	COMPETITION POOL RECIRCULATION PUMP REFER: 1/AQ-301	PACO	15507 LC	4 X 4	115	73	5	5.27	MER-MADE	4X4

- THE MANUFACTURER INDICATED IS BASIS OF DESIGN. PUMP MANUFACTURERS: ITT MARLOW, GRISWOLD, PACO OR AURORA MUST BE CONSIDERED EQUAL
- PROVIDED THEY MEET SPECIFICATIONS AS INDICATED IN BID DOCUMENTS. POOL PUMPS AND STRAINERS MUST BE INSTALLED ON HOUSEKEEPING PADS
- PROVIDE INFLUENT AND EFFLUENT GAUGES FOR EACH PUMP. PRESSURE GAUGES HAVE A RANGE OF 0-60 PSI. COMPOUND GAUGES HAVE A RANGE OF 0-30 HG /
- 4. PROVIDE CHECK VALVE.
- 5. PROVIDE VARIABLE FREQUENCY DRIVE.
- 6. PROVIDE WITH 208 VOLT, 3 PHASE, 60HZ, 3530 RPM MOTOR

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**



EXP 31 DEC 2022



OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF ELEMENTARY & SECONDARY EDUCATION

REPAIR SWIMMING POOL

MISSOURI SCHOOL FOR THE BLIND 3815 MAGNOLIA AVENUE ST. LOUIS, MO

PROJECT # E2107-01 2011 FACILITY # 5012011003, 501201104

ISSUE DATE: 07/06/2022

CAD DWG FILE: DRAWN BY: <u>SAM</u> CHECKED BY: CCS DESIGNED BY: <u>CCS</u>

SHEET TITLE:

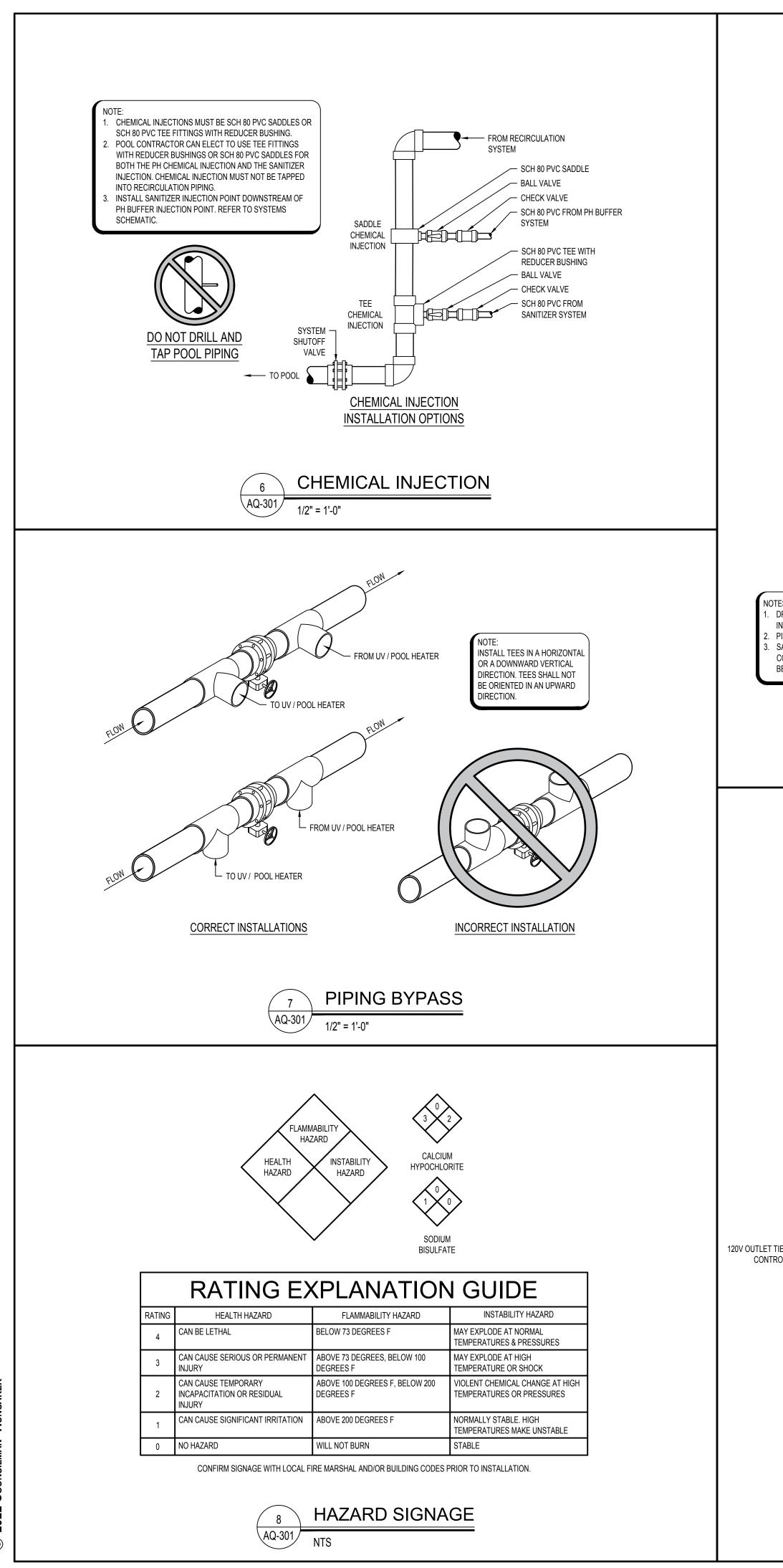
POOL MECH. **ROOM PLAN & SECTIONS**

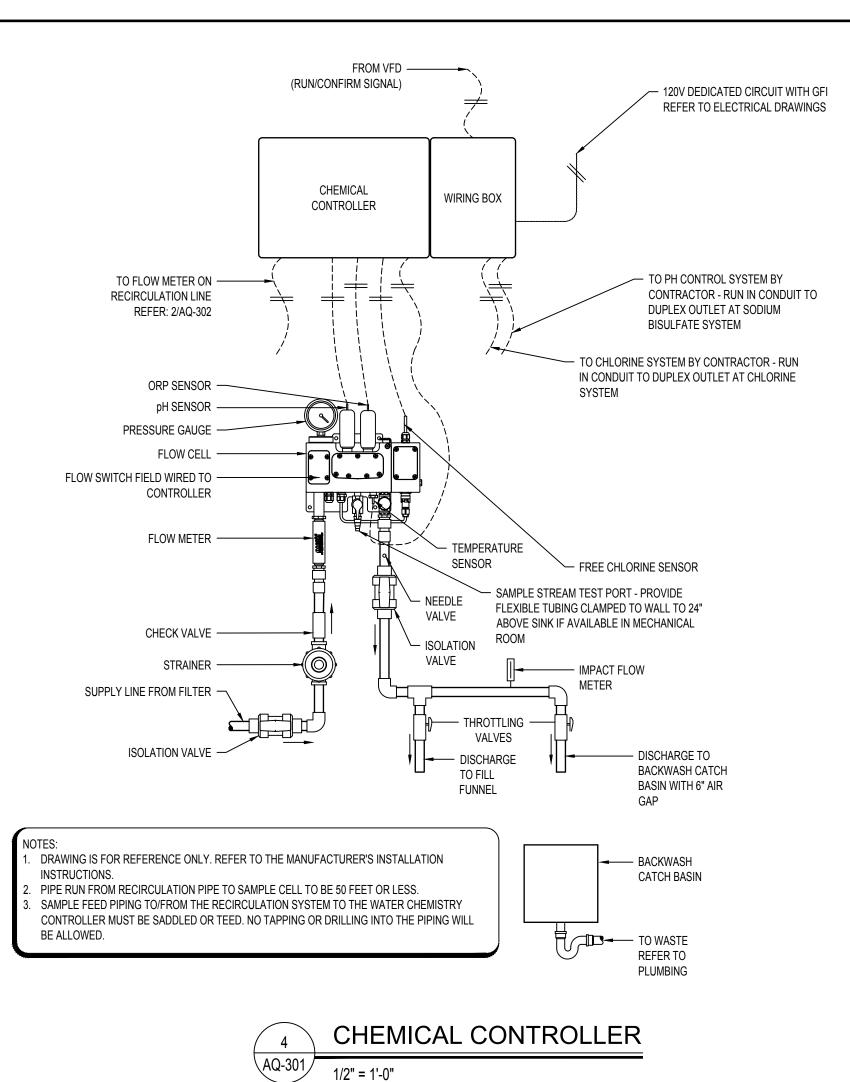
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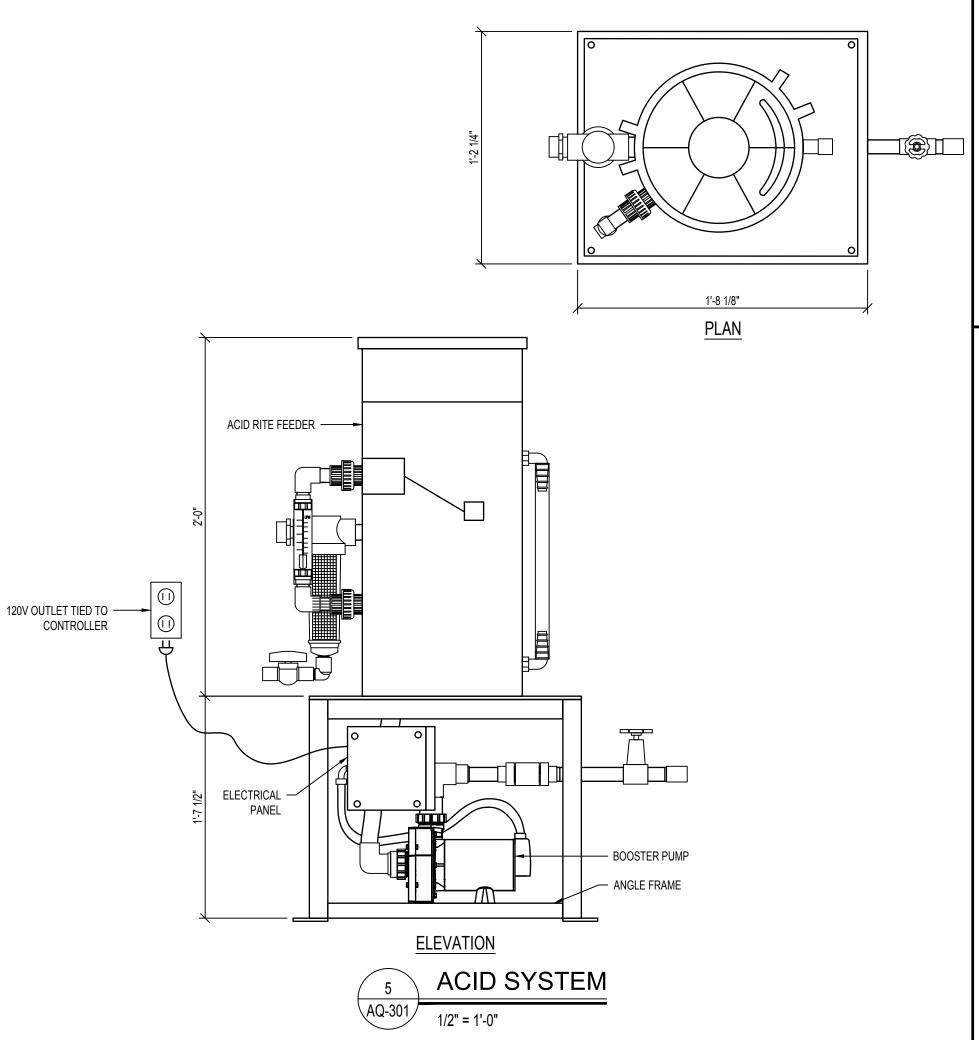
AQ-300

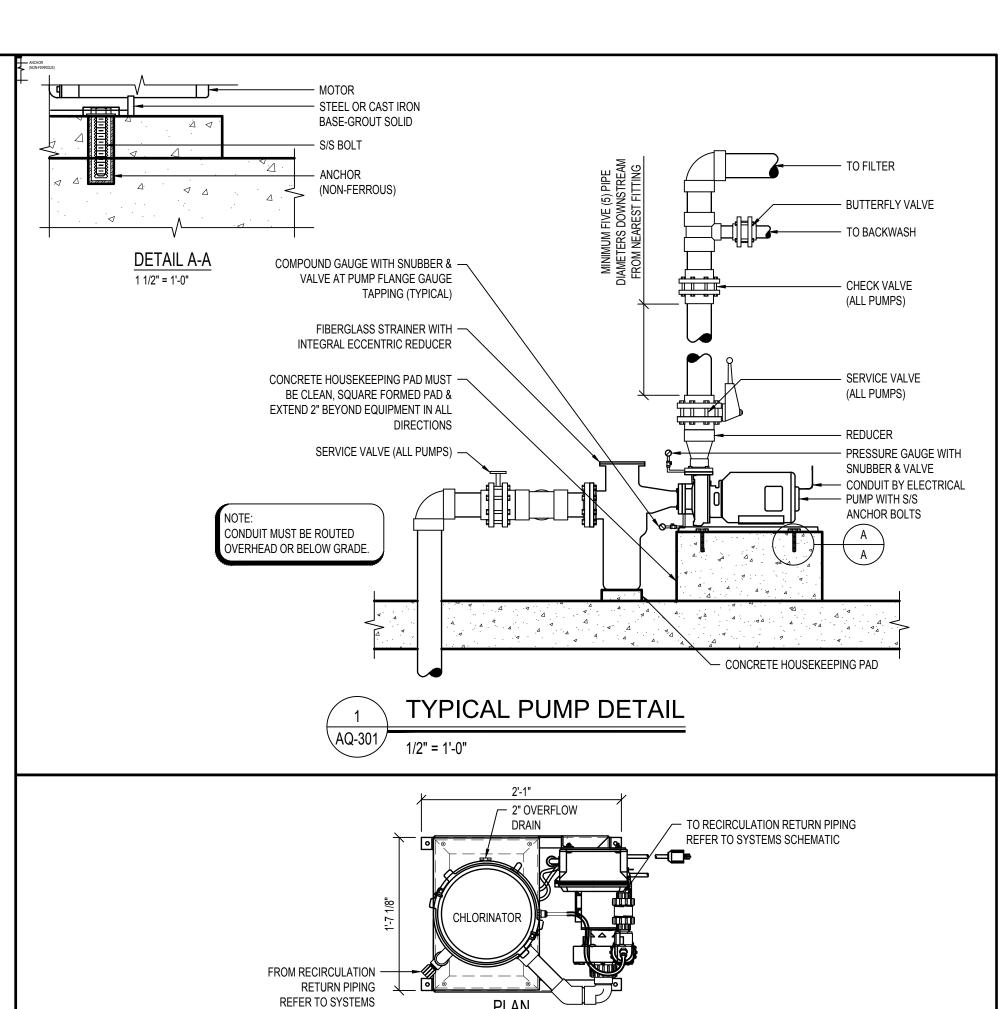
24 OF 45 SHEETS 07/06/2022

COUNSILMAN - HUNSAKER AQUATICS FOR LIFE

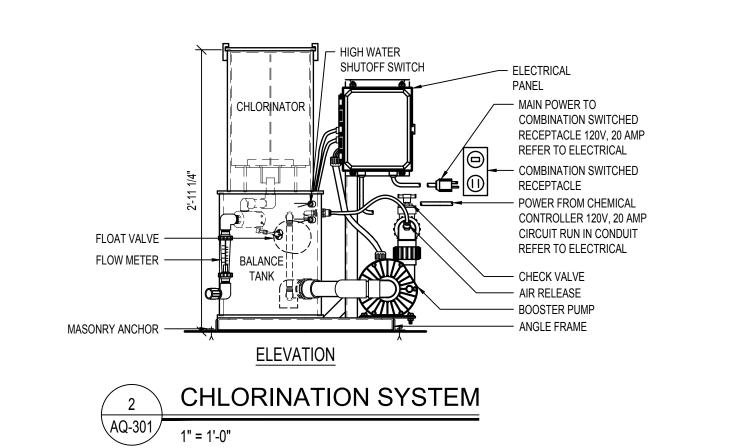


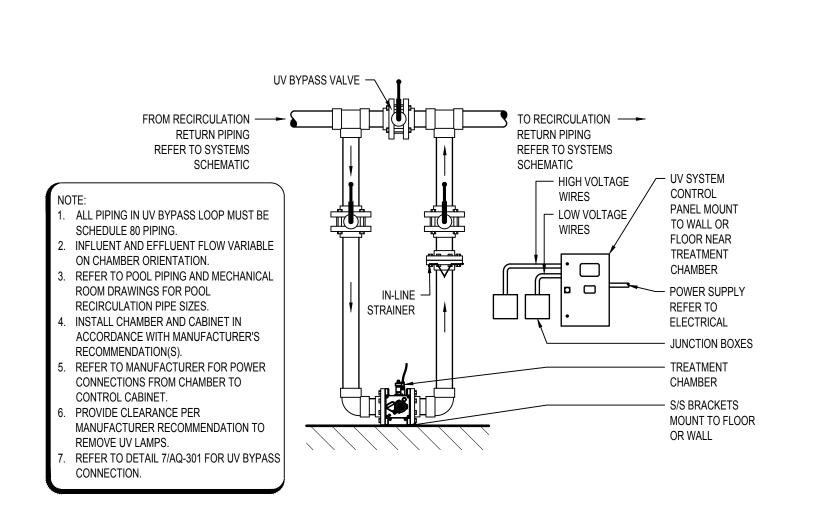






SCHEMATIC









STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**



EXP 31 DEC 2022



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PROJECT # E2107-01 2011 FACILITY # 5012011003, 501201104

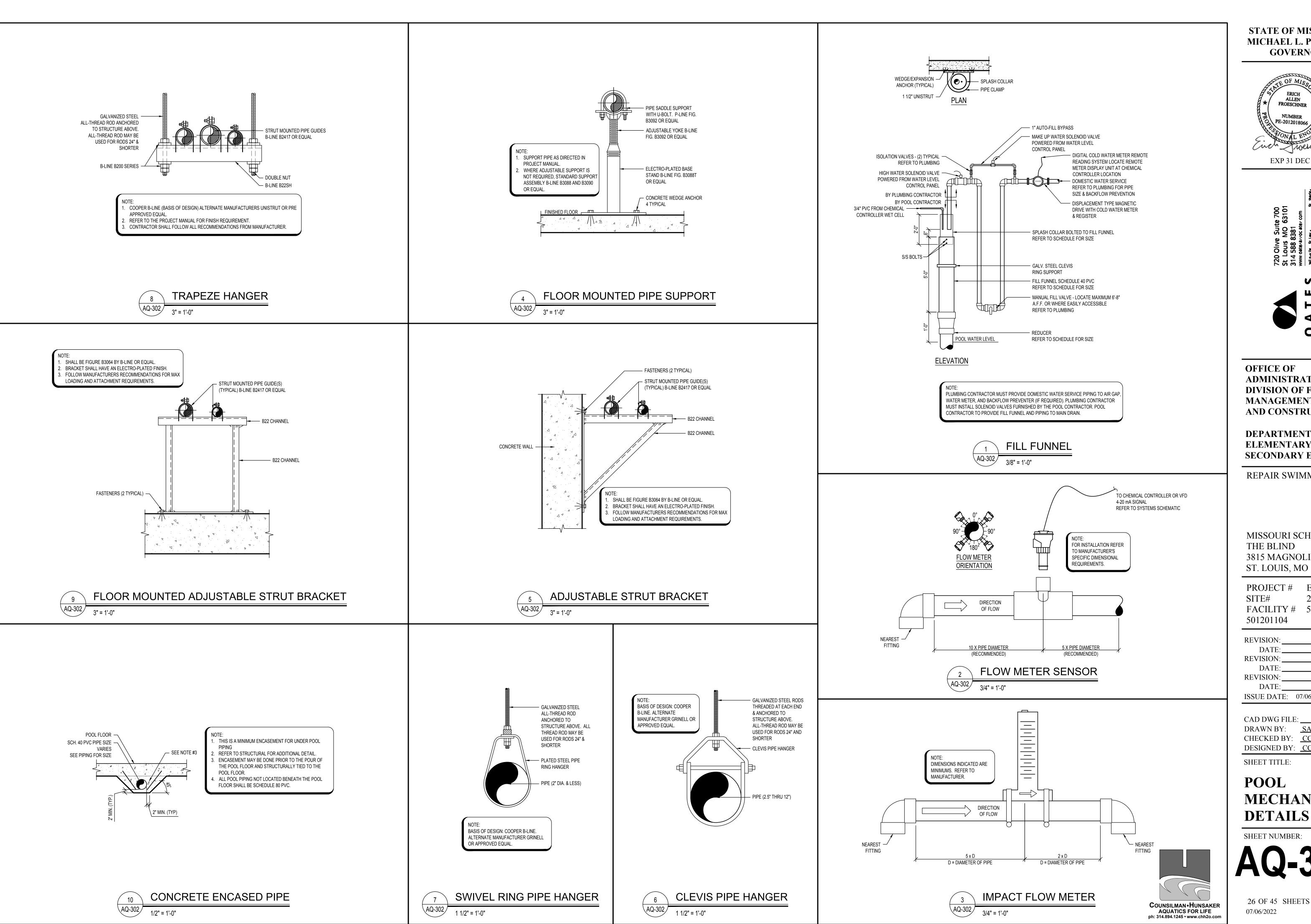
> REVISION: ISSUE DATE: 07/06/2022

CAD DWG FILE: DRAWN BY: CHECKED BY: CCS DESIGNED BY: CCS

SHEET TITLE:

POOL MECHANICAL DETAILS

SHEET NUMBER:





EXP 31 DEC 2022



OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF ELEMENTARY & SECONDARY EDUCATION

REPAIR SWIMMING POOL

MISSOURI SCHOOL FOR THE BLIND 3815 MAGNOLIA AVENUE

PROJECT # E2107-01 2011 FACILITY # 5012011003, 501201104

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CAD DWG FILE: _ DRAWN BY: <u>SAM</u> CHECKED BY: CCS DESIGNED BY: CCS

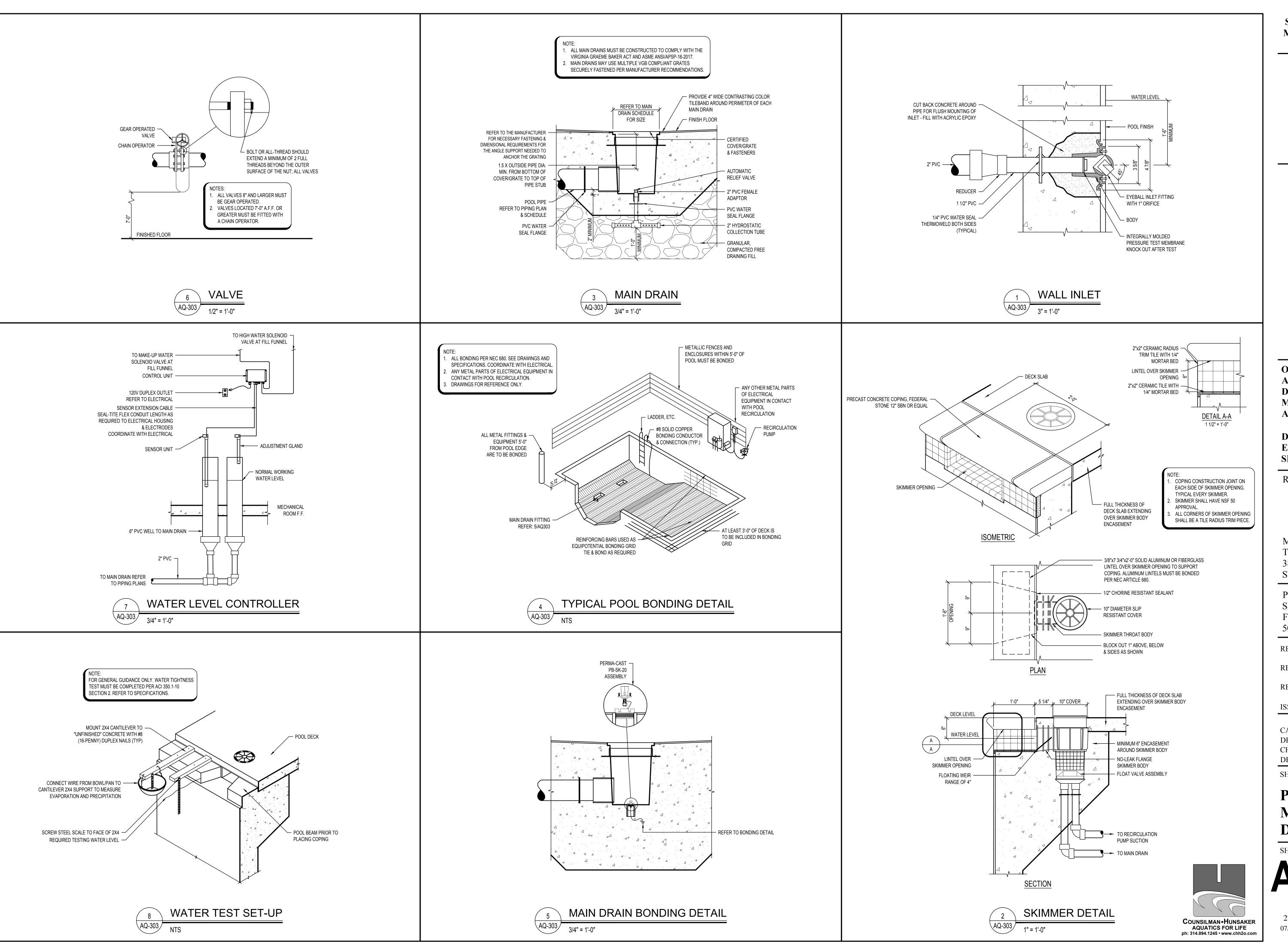
SHEET TITLE:

MECHANICAL DETAILS

SHEET NUMBER:

AQ-302

26 OF 45 SHEETS





EXP 31 DEC 2022

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OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF ELEMENTARY & SECONDARY EDUCATION

REPAIR SWIMMING POOL

MISSOURI SCHOOL FOR THE BLIND 3815 MAGNOLIA AVENUE ST. LOUIS, MO

PROJECT # E2107-01 SITE# 2011 FACILITY # 5012011003, 501201104

REVISION:

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07/06/2022

CAD DWG FILE:

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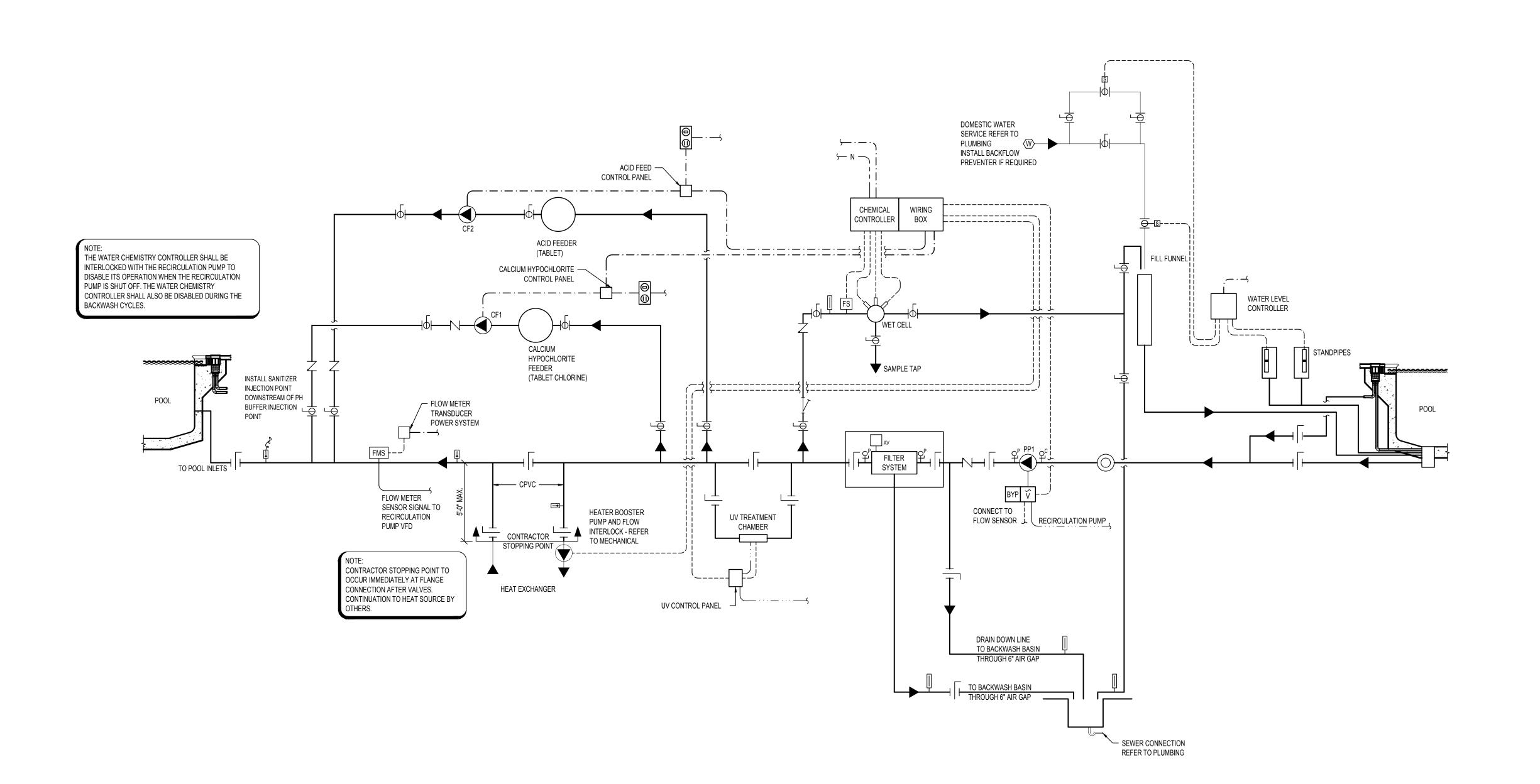
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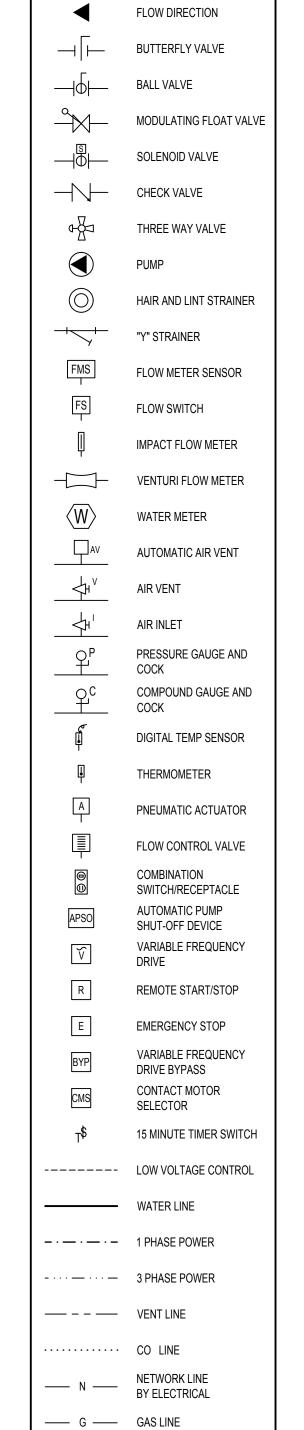
SHEET TITLE:

POOL MECHANICAL DETAILS

SHEET NUMBER:

AQ-303





SCHEMATIC LEGEND

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



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DEPARTMENT OF ELEMENTARY & SECONDARY EDUCATION

REPAIR SWIMMING POOL

MISSOURI SCHOOL FOR THE BLIND 3815 MAGNOLIA AVENUE ST. LOUIS, MO

PROJECT # E2107-01 SITE# 2011 FACILITY # 5012011003, 501201104 REVISION:

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DATE:
ISSUE DATE: 07/06/2022

CAD DWG FILE:

DRAWN BY: SAM

CHECKED BY: CCS

DESIGNED BY: CCS

SHEET TITLE:

POOL SYSTEMS SCHEMATIC

SHEET NUMBER:

AQ-400

28 OF 45 SHEETS 07/06/2022

Counsilman-Hunsaker

AQUATICS FOR LIFE

CODES AND SPECIFICATIONS

- PROJECT IS DESIGNED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE - 2018, INCLUDING ALL REFERENCED STANDARDS AS LISTED IN CHAPTER 35.
- 2. MINIMUM LOADING CONDITIONS ARE PER THE ASCE STANDARD, "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, ASCE 7-16"
- 3. WHERE CONFLICT OCCURS BETWEEN REFERENCED CODES AND STANDARDS, SPECIFICATIONS, AND GENERAL NOTES, THE MOST STRINGENT REQUIREMENT SHALL GOVERN.

DESIGN CRITERIA:

RISK CATEGORY	II
SEISMIC DESIGN DATA:	
IMPORTANCE FACTOR, I	1.0
MAPPED SPECTRAL RESPONSE ACCELERATIONS	
SHORT PERIOD PARAMETER, S _s	0.365
1 SECOND PARAMETER, S₁	0.148
SOIL SITE CLASS	D
DESIGN SPECTRAL RESPONSE ACCELERATIONS	
SHORT PERIOD PARAMETER, SDS	0.367
1 SECOND PARAMETER, S _{D1}	0.218
RESPONSE MODIFICATION FACTOR,	
SPRING-ISOLATED COMPONENTS, R	2.0

GENERAL PROVISIONS

- 1. STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK. IF A DISCREPANCY BETWEEN DRAWINGS IS OBSERVED, CONTACT THE ENGINEER IMMEDIATELY.
- 2. NO OPENING SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
- 3. NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
- DIMENSIONS OF OPENINGS IN FLOORS, ROOFS, AND WALLS, AND ASSOCIATED SURROUNDING FRAMING, AND ANCHOR BOLT SIZES AND LOCATIONS ASSOCIATED WITH MECHANICAL EQUIPMENT, SHALL BE VERIFIED BY THE CONTRACTOR WITH ACTUAL EQUIPMENT FURNISHED FOR THE PROJECT PRIOR TO FABRICATION AND INSTALLATION.
- 5. ALL OPENINGS AND SLEEVES ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS. FOR REQUIRED OPENINGS, REFER TO THE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND CIVIL DRAWINGS.
- 6. THE CONFIGURATION OF STRUCTURAL FRAMING REQUIRED TO SUPPORT MECHANICAL, PLUMBING, AND ELECTRICAL EQUIPMENT IS BASED ON PRELIMINARY PRODUCT INFORMATION. THE CONTRACTOR SHALL VERIFY WITH THE MANUFACTURER OF THE EQUIPMENT FURNISHED FOR THE PROJECT THAT THE CONFIGURATION IS SUITABLE. EQUIPMENT SHALL BE SUPPORTED ON ALL SIDES BY STRUCTURAL FRAMING, IF FRAMING IS NOT LOCATED UNDER EQUIPMENT CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
- 7. DO NOT SCALE THESE DRAWINGS, USE DIMENSIONS
- THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.
- 9. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES.
- 10. ALL THINGS WHICH, IN THE OPINION OF THE CONTRACTOR, APPEAR TO BE DEFICIENCIES, OMISSIONS, CONTRADICTIONS, OR AMBIGUITIES, IN THE PLANS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. PLANS AND/OR SPECIFICATIONS WILL BE CORRECTED, OR WRITTEN INTERPRETATION OF THE ALLEGED DEFICIENCY, OMISSION, CONTRADICTION, OR AMBIGUITY WILL BE MADE BY THE ARCHITECT BEFORE THE AFFECTED WORK PROCEEDS.
- 11. CHECK ALL DIMENSIONS AGAINST REQUIREMENTS OF OTHER CONTRACT DOCUMENTS. FIELD VERIFY DIMENSIONS RELATING TO EXISTING CONDITIONS PRIOR TO ORDERING MATERIALS AND FABRICATION.
- 12. ALL SHOP DRAWINGS AND PRODUCT SUBMITTALS ARE REVIEWED FOR GENERAL CONFORMANCE WITH THE PROJECT DOCUMENTS. REVIEWED SUBMITTALS DO NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY TO CONFORM WITH THE DESIGN DRAWINGS AND SPECFICATIONS.
- 13. DETAILS NOTED AS "TYPICAL"/"TYP." ARE TO APPLY TO ALL CONDITIONS, INCLUDING SIMILAR CONDITIONS, ON THE PROJECT EXCEPT WHERE SPECIFIC DETAILS OR SECTIONS ARE PROVIDED. "TYPICAL" DETAILS APPLY REGARDLESS OF BEING SPECIFICALLY NOTED OR CUT ON THE DRAWINGS. SPECIFIC DETAILS SHALL ALSO APPLY TO THOSE CONDITIONS WHICH ARE THE SAME OR SIMILAR ELSEWHERE ON THE JOB REGARDLESS OF BEING SPECIFICALLY NOTED OR CUT ON DRAWINGS.

EXISTING CONDITIONS

- CONTRACTOR SHALL BECOME FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING AND PROVIDE THE NECESSARY MEANS AND METHODS TO ACCOMPLISH THE SPECIFIED WORK.
- 2. FIELD VERIFY ALL CONDITIONS, SIZES, SPACINGS, AND DIMENSIONS OF EXISTING STRUCTURES OR OBSTACLES PRIOR TO FABRICATION AND/OR NEW CONSTRUCTION. CONTACT ENGINEER IMMEDIATELY IF EXISTING CONDITIONS, ETC. VARY FROM THOSE SHOWN ON THESE DRAWINGS.
- 3. CONTRACTOR IS RESPONSIBLE FOR THE TEMPORARY REMOVAL AND REPLACEMENT/RELOCATION OF ANY NON-STRUCTURAL ELEMENTS NECESSARY TO COMPLETE THE STRUCTURAL WORK. FOLLOW ALL APPLICABLE CODES AND REQUIREMENTS OF THE AFFECTED TRADES. PROVIDE FOR THIS REQUIREMENT IN THE RID.
- 4. CONTRACTOR SHALL CONFINE ALL OPERATIONS TO THE AREA SHOWN ON THE PLANS. ANY AREA DISTURBED BEYOND THESE LIMITS SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
- 5. WHERE NEW CONCRETE MEETS EXISTING CONCRETE, CONTRACTOR SHALL CHIP OR SAW CUT CONCRETE EDGES TO FORM A FLUSH AND CLEAN SURFACE PRIOR TO INSTALLATION OF NEW CONCRETE.
- 6. CONTRACTOR SHALL PROVIDE TEMPORARY OR PERMANENT SHORING TO ALL EXISTING CONTRUCTION WHERE NEW CONTRUCTION ABUTS, TO PREVENT DAMAGE DURING NEW CONSTRUCTION WHETHER SHOWN ON THESE DRAWINGS OR NOT. ANY DAMAGE TO EXISTING STRUCTURES, FOUNDATIONS, ETC. SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER PRIOR TO PROJECT COMPLETION.

CONCRETE NOTES

- . CONCRETE MATERIALS AND CONSTRUCTIONS SHALL ADHERE TO THE "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY", ACI 318, YEAR ACCORDING TO PROJECT BUILDING CODE.
- 2. GENERAL CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR STRUCTURAL CONCRETE", ACI 301, YEAR ACCORDING TO PROJECT BUILDING CODE.
- 3. CONCRETE 28-DAY COMPRESSIVE STRENGTH AND DENSITY SHALL BE AS FOLLOWS:

INTENDED USE	f'c (PSI)	DENSITY (PCF
FOUNDATIONS	4000	145
SLAB ON GRADE	4000	145
ALL OTHER CONCRETE	4000	145

- 4. REINFORCING SHALL CONFORM TO:
 - a. DEFORMED BARS
 b. DEFORMED BARS (WELDED)
 c. WELDED WIRE FABRIC

 ASTM A615 GRADE 60
 ASTM A706
 ASTM A1064
- ALL REINFORCING SHALL BE DETAILED, FABRICATED, SUPPORTED, AND PLACED IN ACCORDANCE WITH THE "ACI DETAILING MANUAL" AND CRSI'S "MANUAL OF STANDARD PRACTICE", LATEST EDITIONS.
- 6. REINFORCING SHALL BE PLACED WITH CONCRETE COVER AS SHOWN IN DETAILS. WHERE BAR PLACEMENT IS NOT SHOWN, PROVIDE CONCRETE COVER PER ACI 318, WITH THE FOLLOWING MINIMUM DIMENSIONS WHERE CONCRETE IS:
- a. CAST AGAINST EARTH 3 IN
 b. EXPOSED TO EARTH & WEATHER 2 IN
- SPLICE REINFORCING BARS WITH CLASS "B" SPLICES, UNO, PER THE REQUIREMENTS OF ACI 318. PROVIDE MINIMUM OF 6" LAP SPLICING FOR WWF IN SOG AND 12" FOR ELEVATED SLABS.
- 8. CENTRAL LINE OF SPLICE OF WELDED WIRE FABRIC IN ELEVATED FLOOR SLABS SHALL BE LOCATED AT MIDSPAN OF FLOOR SLAB.
- 9. SPLICES SHALL NOT BE LOCATED OVER FLOOR BEAMS.
- 10. PROVIDE FOUNDATION DOWELS OF THE SAME SIZE AND LOCATION AS THAT REQUIRED IN COLUMN AND/OR WALL ABOVE. PROVIDE DEVELOPMENT AND SPLICES PER ACI 318.
- 11. CONSTRUCTION JOINTS SHALL BE LOCATED ON THE SHOP DRAWINGS AND ARE SUBJECT TO APPROVAL OF THE ENGINEER. LOCATE AT POINTS OF MINIMUM SHEAR. REINFORCING SHALL BE CONTINUOUS THROUGH THE JOINT UNLESS IT ALSO FUNCTIONS AS A CONTROL JOINT (50% PASSES). SUBMIT DETAILS OF CONSTRUCTION JOINTS IN THE SHOP DRAWINGS. HORIZONTAL CONSTRUCTION JOINTS ARE NOT ALLOWED IN WALLS OR SLABS.
- 12. CONTROL JOINTS SHALL BE SPACED AT 15 FOOT MAXIMUM INTERVALS. LAYOUT SHALL CREATE NEARLY SQUARE OR RECTANGULAR (1.5:1 MAX) SECTIONS. SUBMIT CONTROL JOINT LAYOUT FOR APPROVAL.
- 13. PROVIDE 3/4" CHAMFERS AT ALL EDGES THAT ARE EXPOSED TO VIEW IN THE FINISHED STRUCTURE UNLESS SHOWN OTHERWISE IN THE ARCHITECTURAL DRAWINGS.
- 14. CONCRETE EXPOSED TO FREEZE THAW CYCLES SHALL HAVE 6% AIR ENTRAINMENT. DO NOT AIR ENTRAIN CONCRETE TO BE TROWEL FINISHED.
- 15. CONCRETE FINISH SHALL CONFORM TO ACI 301 UNO ON ARCHITECTURAL DRAWINGS.
- 16. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, ETC. FOR INFORMATION ON DOOR AND WINDOW LOCATIONS, LOUVER OPENINGS, SLEEVES, CONDUIT, DRAINS, MISCELLANEOUS EMBEDDED ITEMS, ETC. THAT ARE TO BE INCORPORATED IN THE WORK. THE VARIOUS TRADES ARE RESPONSIBLE FOR PROVIDING AND PLACING THEIR ITEMS.

CONC. CON'T

- SEE MECHANICAL, ELECTRICAL, AND CIVIL DRAWINGS FOR EQUIPMENT PADS AND FOUNDATION LOCATIONS. SEE TYPICAL DETAILS FOR CONSTRUCTION UNLESS SPECIFIC DETAILS ARE PROVIDED.
- 18. SEE PLUMBING AND ARCHITECTURAL DRAWINGS FOR UNDERFLOOR AND PERIMETER FOUNDATION DRAINS.
- 19. PROVIDE CONTINUOUS WATERSTOPS IN JOINTS OF PITS, RETAINING WALLS, AND OTHER SIMILAR CONSTRUCTIONS. WATERSTOP PRODUCTS SHALL BE APPROVED BY THE ENGINEER WHERE NOT SPECIFICALLY CALLED OUT ON DRAWINGS.
- 20. ALL STEEL ELEMENTS LOCATED BELOW GRADE SHALL BE COATED WITH A MINIMUM OF 1/8" MASTIC AND COVERED WITH 3" MINIMUM CONCRETE FOR PROTECTION.
- 21. EQUIPMENT PADS, TOPPING SLABS, FILL SLABS, ETC. SHALL BE REINFORCED WITH #4 AT 16" O.C. EACH WAY, UNO.
- 22. CONDUITS, PIPES, AND SLEEVES OF ANY MATERIAL NOT HARMFUL TO CONCRETE AND WITHIN THE LIMITATIONS OF ACI 318 SHALL BE PERMITTED TO BE EMBEDDED IN CONCRETE, ONLY WITH PRIOR WRITTEN APPROVAL OF THE ARCHITECT. THE CONTRACTOR SHALL SUBMIT DETAILED DIMENSIONED AND COORDINATED DRAWINGS OF PROPOSED EMBEDDED CONDUIT, PIPES, AND SLEEVES TO THE ARCHITECT PRIOR TO CONSTRUCTION.
- 23. CONDUITS AND PIPES EMBEDDED WITHIN A SLAB, WALL, OR BEAM (OTHER THAN
 - THOSE MERELY PASSING THROUGH) SHALL SATISFY THE FOLLOWING:

 a. THEY SHALL NOT BE LARGER IN OUTSIDE DIAMETER THAN 1/3 THE

 OVERALL THICKNESS OF THE SLAB, WALL, OR BEAM IN WHICH THEY

 ARE EMBEDDED.
 - b. THEY SHALL NOT BE SPACED CLOSER THAN 3 DIAMETERS OR WIDTHS
 - c. THEY SHALL NOT SIGNIFICANTLY IMPAIR THE STRENGTH OF THE
- CONSTRUCTION.

 24. ALL ANCHOR BOLTS, INSERTS, SLEEVES AND OTHER EMBEDDED ITEMS SHALL BE
- 25. THE CONTRACTOR SHALL MAKE ALLOWANCE FOR DEAD LOAD DEFLECTION, SETTLEMENT OF FORMS AND SHRINKAGE OF CONCRETE WHEN CONSTRUCTING
- 26. THE CONTRACTOR ALONE IS RESPONSIBLE FOR THE ADEQUACY OF ALL FORMS, SHORING, ETC., USED IN CONSTRUCTION OF CONCRETE WORK.
- 27. ALL COLUMNS AND FOOTINGS ARE CENTERED ON COLUMN LINES EXCEPT WHERE OTHERWISE SHOWN ON THE PLANS.
- 8. WALL CONSTRUCTION AND CONTROL JOINTS SHALL BE LOCATED ON SHOP DRAWINGS FOR APPROVAL AND SPACED NOT TO EXCEED THE FOLLOWING, WITHOUT WRITTEN APPROVAL BY STRUCTURAL ENGINEER OF RECORD:
 - a. CONSTRUCTION JOINTSb. CONTROL JOINTS

SET BEFORE CONCRETE IS PLACED.

FORMS AND FORM WORK.

b. CONTROL JOINTS 25 FEET

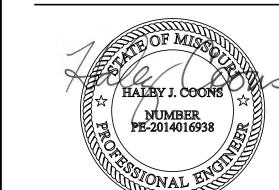
29. ALL ABUTTING CONCRETE MEMBERS SHALL BE DOWELED TOGETHER, UNLESS POURED MONOLITHICALLY. DOWELS SHALL BE EQUAL IN SIZE AND SPACING TO THE REINFORCING IN THE ADJACENT MEMBER.

STATEMENT OF SPECIAL INSPECTIONS

- 1. SPECIAL INSPECTIONS SHALL BE IN ACCORDANCE WITH THE IBC SECTION 1704 AND 1705 TOGETHER WITH THE LOCAL AND STATE AMENDMENTS. REFER TO THE SECTIONS AND TABLES CONTAINED IN THE IBC FOR MATERIAL SPECIFIC INSPECTION TYPES AND FREQUENCIES.
- 2. SPECIAL INSPECTIONS AND ASSOCIATED TESTING SHALL BE PERFORMED BY AN APPROVED ACCREDITED INDEPENDENT AGENCY. THE CONTRACTOR WILL SECURE AND PAY FOR THE SERVICES OF THE AGENCY TO PERFORM ALL SPECIAL INSPECTIONS AND ASSOCIATED TESTS. INSPECTORS FOR EACH SYSTEM AND MATERIAL SHALL BE
- 3. INTERNATIONAL CODE COUNCIL (ICC) CERTIFIED OR OTHERWISE APPROVED BY THE BUILDING OFFICIAL.
- 4. THE SPECIAL INSPECTOR SHALL OBSERVE THE INDICATED WORK FOR COMPLIANCE WITH THE APPROVED CONTRACT DOCUMENTS AND SUBMIT RECORDS OF INSPECTION. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION.
- 5. SPECIAL INSPECTIONS AND ASSOCIATED TESTING REPORTS SHALL BE SUBMITTED TO THE ENGINEER, CONTRACTOR, BUILDING OFFICIAL, AND OWNER WITHIN ONE WEEK OF INSPECTION OR WITHIN ONE WEEK OF TEST COMPLETION. INSPECTIONS FOR WHICH REPORTING SHALL BE REQUIRED ARE NOTED IN THE SECTIONS AND TABLES CONTAINED IN THE IBC CHAPTER 17.
- 6. AT THE CONCLUSION OF CONSTRUCTION, A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF PREVIOUSLY NOTED DISCREPANCIES SHALL BE SUBMITTED.
- 7. STATEMENT OF SPECIAL INSPECTION REQUIREMENTS FOR SEISMIC RESISTANCE SHALL BE IN ACCORDANCE WITH IBC SECTION 1705 TOGETHER WITH LOCAL AND STATE AMENDMENTS.
- 8. STATEMENT OF SPECIAL INSPECTION REQUIREMENTS SHALL APPLY TO THE FOLLOWING:

 SEISMIC FORCE RESISTING SYSTEMS IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY B, C, D, E, OR F.

 REFER TO GENERAL STRUCTURAL NOTES FOR BASIC SEISMIC FORCE RESISTING SYSTEMS FOR EACH
 - STRUCTURE AND DESIGNATED SEISMIC DESIGN CATEGORY.
 DESIGNATED SEISMIC SYSTEMS IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E, OR F.
 - EXTERIOR WALL PANELS AND THEIR ANCHORAGE, SUSPENDED CEILING SYSTEMS AND THEIR ANCHORAGE, ACCESS FLOORS AND THEIR ANCHORAGE, AND STEEL STORAGE DESIGN
- CATEGORY D, E OR F.
 ANCHORAGE OF ELECTRICAL EQUIPMENT FOR EMERGENCY AND STANDBY POWER SYSTEMS IN STRUCTURES
- ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E, OR F.
 ALL ELECTRICAL EQUIPMENT IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY E OR F.
- INSTALLATION AND ANCHORAGE OF PIPING SYSTEMS AND THEIR ASSOCIATED MECHANICAL UNITS DESIGNED
- TO CARRY HAZARDOUS MATERIALS AND INSTALLATION AND ANCHORAGE OF
- DUCTWORK DESIGNED TO CARRY
 HAZARDOUS MATERIALS IN STRUCTURES ASSIGNED TO SEISMIC DESIGN
- CATEGORY C, D, E, OR F.
 STORAGE RACKS THAT ARE 8 FEET OR GREATER IN HEIGHT IN STRUCTURES
 ASSIGNED TO SEISMIC DESIGN
 CATEGORY D. E. OR F.



STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR

EXP. 12/31/2022

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OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF ELEMENTARY & SECONDARY EDUCATION

REPAIR SWIMMING POOL

MISSOURI SCHOOL FOR THE BLIND 3815 MAGNOLIA AVENUE

PROJECT # E2107-01 SITE# 2011 FACILITY # 5012011005

ST. LOUIS, MO

REVISION:

DATE:

REVISION:

DATE:

REVISION:

DATE:

ISSUE DATE: 07/06/2022

CAD DWG FILE: S-001
DRAWN BY: SLP
CHECKED BY: HJC
DESIGNED BY: HJC

SHEET TITLE:

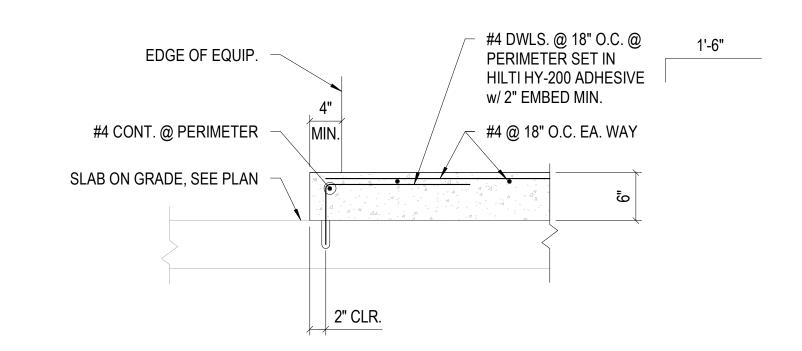
GENERAL NOTES

SHEET NUMBER:

S-001

AND ANGLE ΑT CENTER LINE POUND(S) LINEAR FEET DIAMETER LIVE LOAD POUND OR NUMBER LONG WAY L.W. PROPERTY LINE MASONRY A.B. ANCHOR BOLT MATERIAL ADD ADDENDUM, ADDITIONAL MAXIMUM A.F.F. ABOVE FINISH FLOOR MECH. **MECHANICAL** AGG. AGGREGATE MEZZ. MEZZANINE ALUM. ALUMINUM MANUFACTURE, MANUFACTURER, ALT. **ALTERNATE** MANUFACTURED **APPROX** APPROXIMATE MINIMUM ARCHITECT, ARCHITECTURAL ARCH. MISC. MISCELLANEOUS ASPH. **ASPHALT** NOT TO SCALE BLDG BUILDING N.S. **NEAR SIDE** BLKG BLOCKING NOM. NOMINAL BMBEAM BOTT BOTTOM B.O. **BOTTOM OF** ON CENTER BRG BEARING O.D. OUTSIDE DIAMETER OH OVERHEAD OPNG CF **CUBIC FEET** OPENING OPPOSITE OPP. CJ CONTROL JOINT CSJ CONSTRUCTION JOINT CMU CONCRETE MASONRY UNIT PL. PSF CFSF PLATE COLD-FORMED STEEL FRAMING COL. POUNDS / SQUARE FOOT COLUMN PSI POUNDS / SQUARE INCH CONC. CONCRETE CONST CONSTRUCTION CONT CONTINUOUS, CONTINUED QTY CTR CENTER QUANTITY CTRL CONTROL CY CUBIC YARD REINFORCE, REINFORCED, REINFORCING DBL REQUIRED DOUBLE DEMO. DEMOLITION, DEMOLISH REV. REVISION, REVERSE DET. DETAIL DIA. DIAMETER DIM. SCHEDULE **DIMENSION** DL SECTION DEAD LOAD SDS SELF-DRIVING SCREW DN DOWN SHT DWG DRAWING(S) SHEET S.W. SHORT WAY SIM. SIMILAR SPECIFICATION SPEC. E.O.D EDGE OF DECK S.S. STAINLESS STEEL STD E.O.S. STANDARD EDGE OF SLAB S.F. STORE FRONT **EIFS** EXTERIOR INSULATION AND FINISH SYSTEM T.O. T.O.C. TOP OF E.J. **EXPANSION JOINT** TOP OF CONCRETE ELEC. ELECTRIC, ELECTRICAL T.O.F. ELEV ELEVATION, ELEVATOR TOP OF FOOTING T.O.F.F TOP OF FINISHED FLOOR EQ. **EQUAL** EQUIP. TOP OF STEEL **EQUIPMENT** T.O.W. TOP OF WALL **EXIST EXISTING** EXP. TYP. TYPICAL **EXPANSION** UNLESS NOTED OTHERWISE F.S. FAR SIDE FDN FOUNDATION F.F. FINISH FLOOR **VERIFY IN FIELD** V.I.F. FIN FINISH VERTICAL FT FOOT, FEET FTG FOOTING F.V. FIELD VERIFY WITH GAUGE WITHOUT GA WELDED WIRE FABRIC W.W.F. GALV GC GR. GALVANIZED GENERAL CONTRACTOR <u>Y</u> YARD GRADE YD HORIZ. HORIZONTAL HEIGHT HS HIGH STRENGTH I.D. **INSIDE DIAMETER** IN. INCH INT. INTERIOR JST JT JOIST JOINT

ABBREVIATIONS

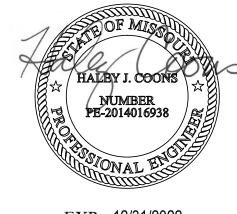


TYPICAL HOUSEKEEPING PAD DETAIL

NOTE

- ALL OTHER MECHANICAL AND ARCHITECTURAL TOPPING PADS ARE SIMILAR.
- VERIFY LOCATION OF CONC. PADS PER ARCH. & AQUATIC DWGS.
- FOR PADS ≥ 10", USE 2 LAYERS OF REINFORCING, SAME SIZE & SPACING AS TOP.

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



EXP. 12/31/2022

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OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF ELEMENTARY & SECONDARY EDUCATION

REPAIR SWIMMING POOL

MISSOURI SCHOOL FOR THE BLIND 3815 MAGNOLIA AVENUE ST. LOUIS, MO

PROJECT # E2107-01 SITE# 2011 FACILITY # 5012011005

REVISION:
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ISSUE DATE: 07/06/2022

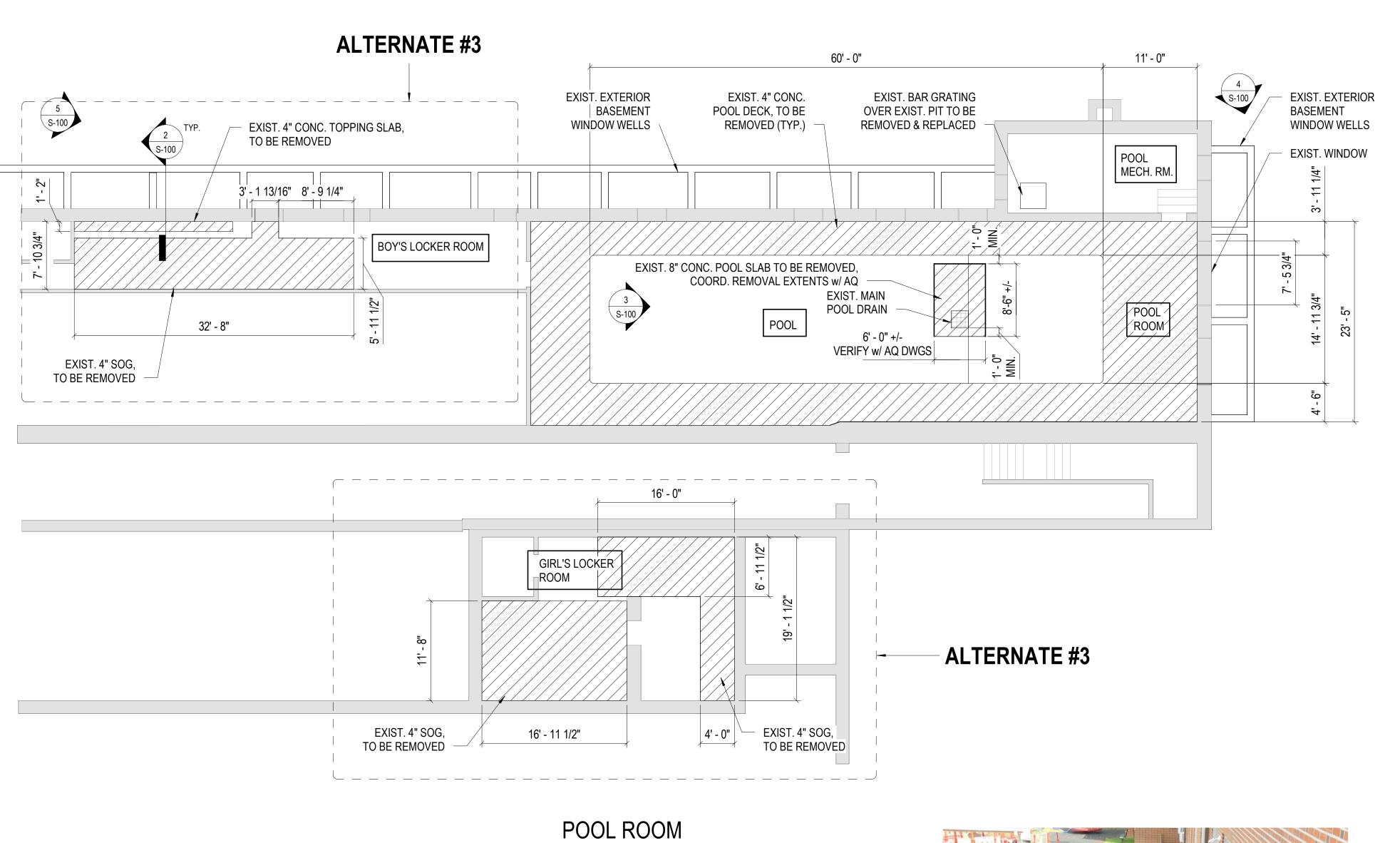
CAD DWG FILE: S-002
DRAWN BY: SLP
CHECKED BY: HJC
DESIGNED BY: HJC

SHEET TITLE:

GENERAL NOTES & DETAILS

SHEET NUMBER:

S-002



DEMOLITION PLAN

DEMOLITION SHALL BE CONDUCTED SUCH THAT ALL ITEMS TO BE REMOVED CAN FIT

DEMOLITION REQUIRED BY THEIR WORK WHETHER SHOWN ON THE DRAWINGS OR NOT

ALL DIMENSIONS AND INFORMATION IS BASED ON ORIGINAL CONSTRUCTION DOCUMENTS

AND/OR FIELD MEASUREMENTS. ALL INFORMATION MUST BE FIELD VERIFIED. CONSIDER

UNLESS OTHERWISE INDICATED, REMOVE MISCELLANEOUS ITEMS AS REQUIRED TO PERFORM WORK OR THAT WILL BE EXPOSED TO VIEW AND ARE NO LONGER IN SERVICE

REPAIR ANY DAMAGE TO WALLS AND FLOORS TO MAINTAIN A SMOOTH SURFACE.

COORDINATE ALL DEMOLITION WITH OTHER DISCIPLINES TO VERIFY EXTENTS OF

THROUGH A STANDARD MAN DOOR. CUT ITEMS TO BE DEMOLISHED, THAT ARE NOT STATED

S-100 | SCALE: 1/8" = 1'-0"

TO BE SALVAGED, AS NEEDED TO FIT SITE CONSTRAINTS.

WHETHER SHOWN ON THE DRAWINGS OR NOT.

ALL DIMENSIONS TO BE +/- V.I.F.

DEMO NOTES:

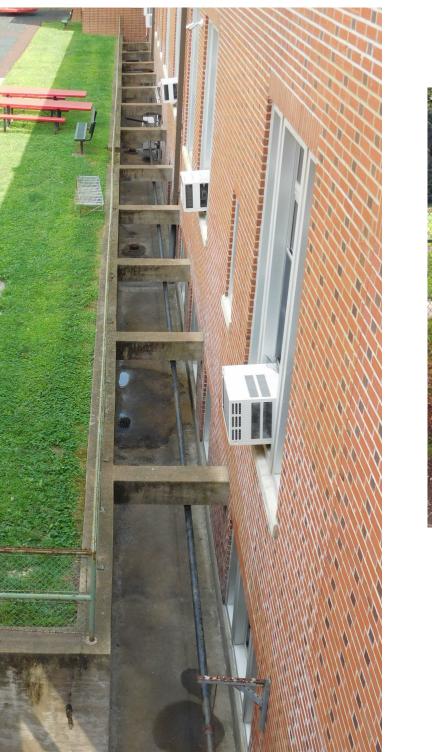
DEMOLITION.



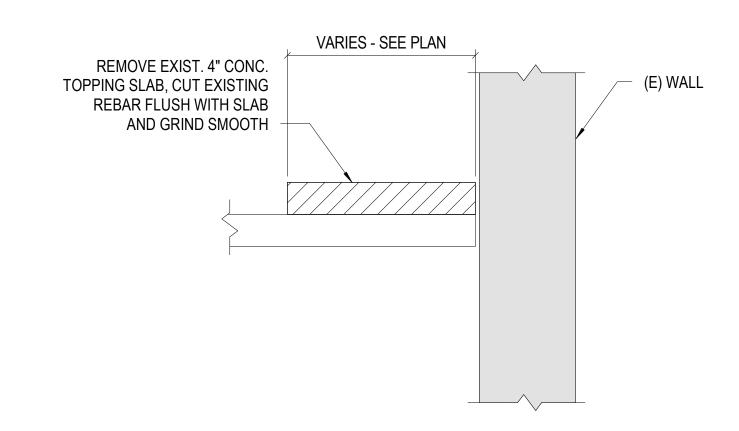






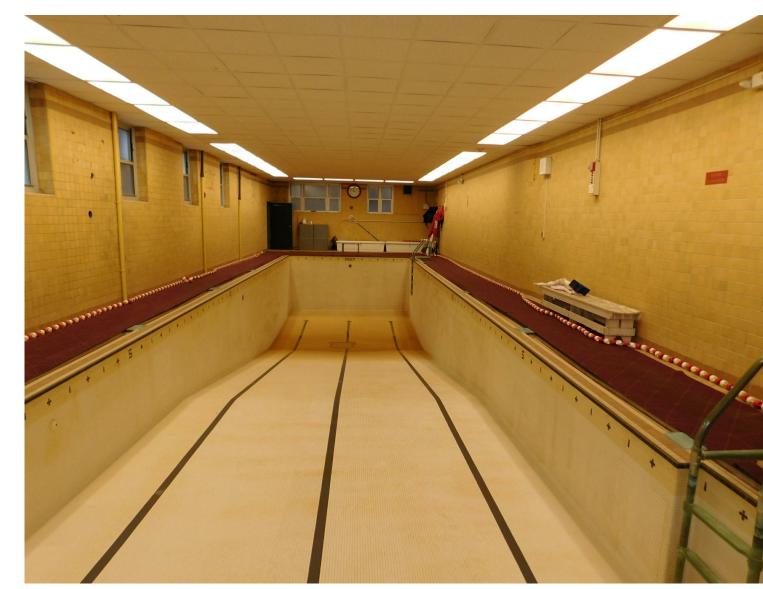






² SECTION S-100 | SCALE: 1" = 1'-0"

ALTERNATE #3



3 PHOTO S-100 | SCALE: 1/4" = 1'-0"



4 PHOTO S-100 SCALE: 1/4" = 1'-0"

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**



EXP. 12/31/2022



OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

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REPAIR SWIMMING POOL

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PROJECT # E2107-01 2011 SITE# FACILITY # 5012011005

REVISION: REVISION: DATE: **REVISION:** DATE:_

ISSUE DATE: 07/06/2022

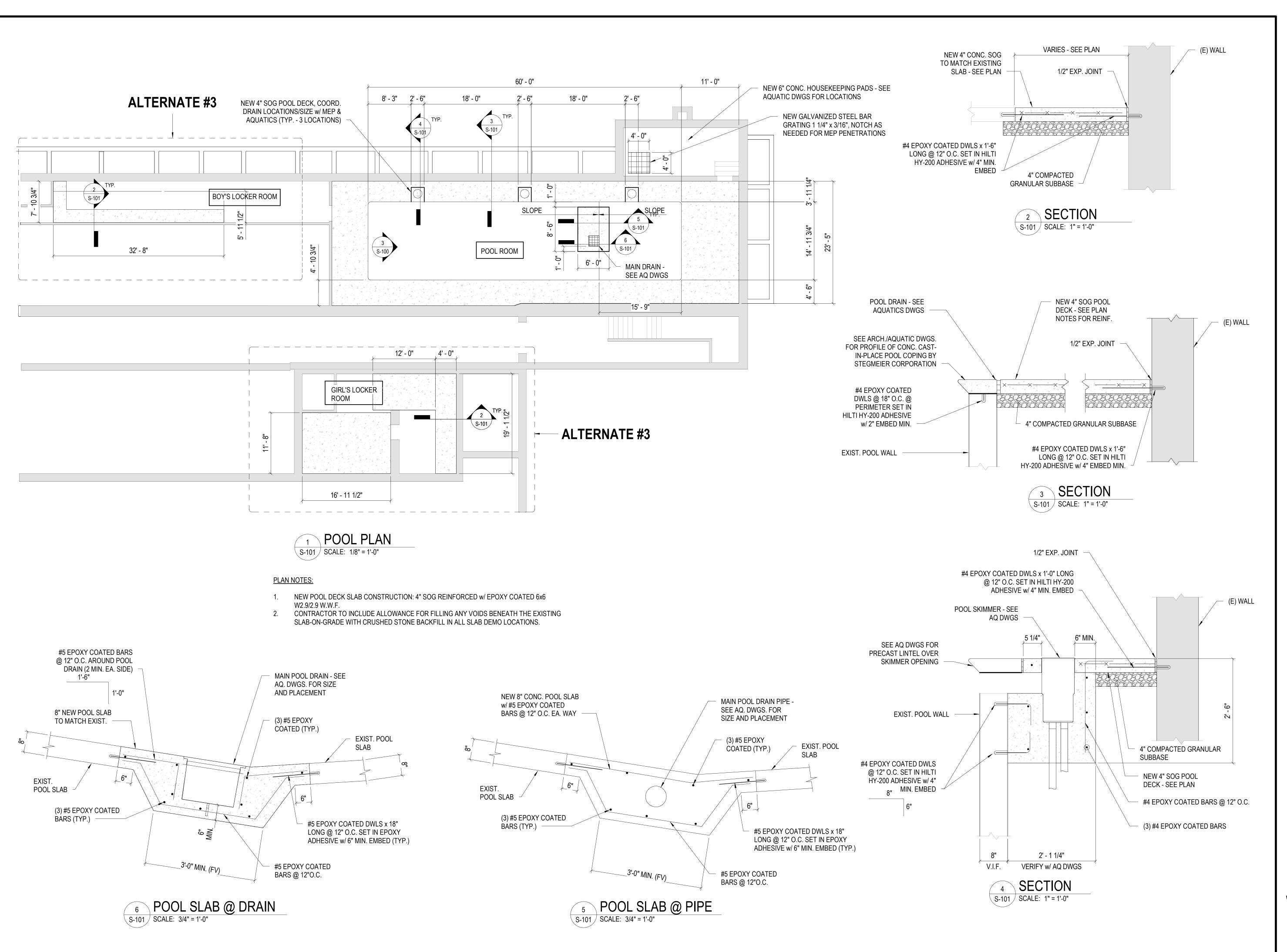
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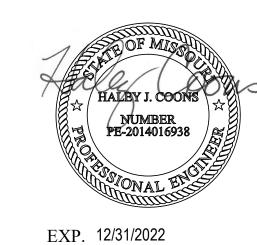
SHEET TITLE:

DEMO PLAN

SHEET NUMBER:

S-100







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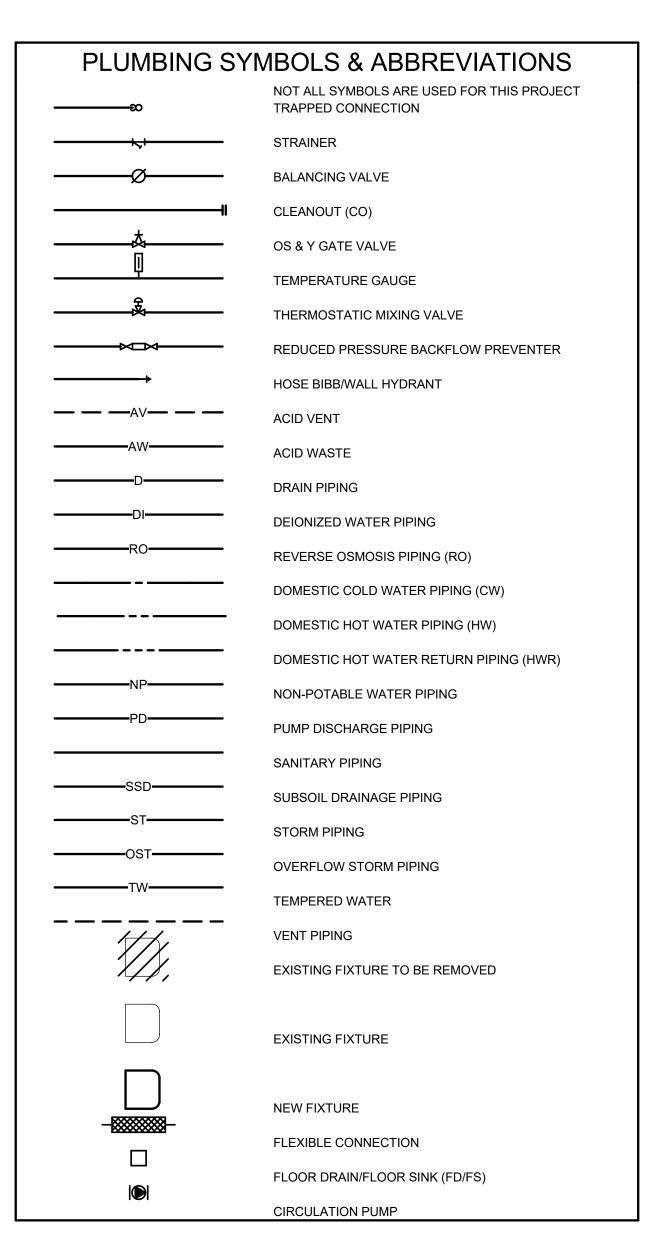
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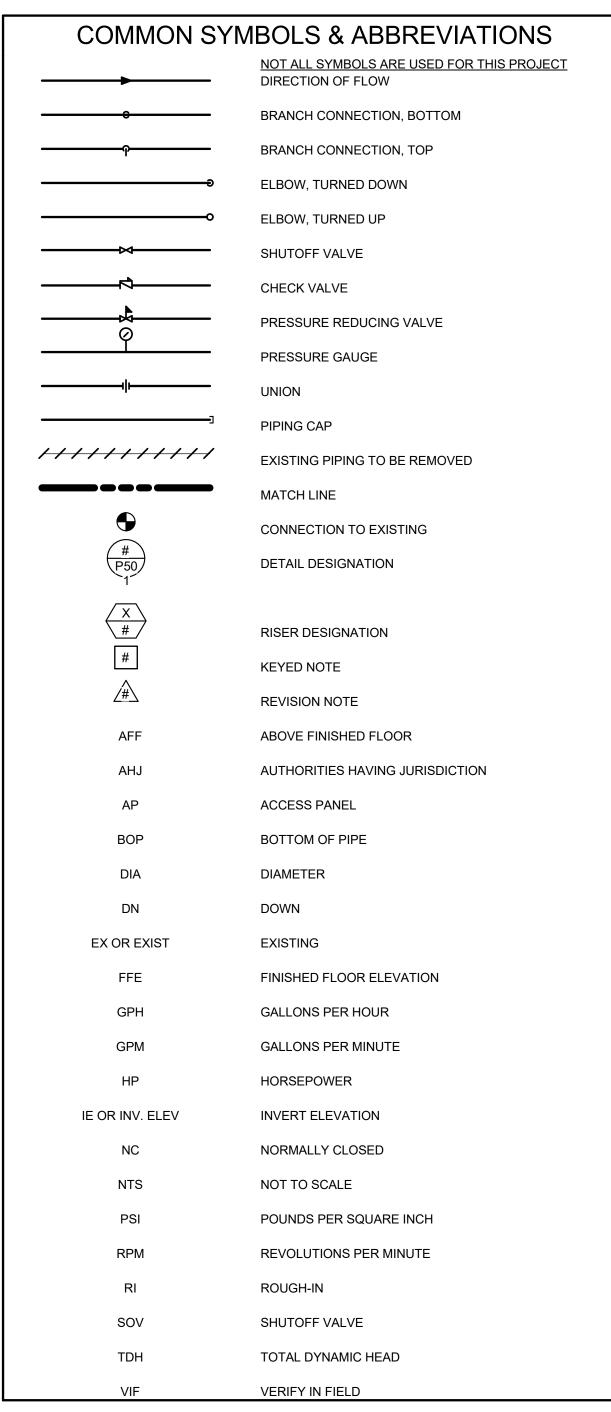
CAD DWG FILE: S-101 DRAWN BY: <u>SLP</u> CHECKED BY: HJC DESIGNED BY: HJC

SHEET TITLE:

POOL PLAN

SHEET NUMBER:





FIRE STOPPING NOTES

- MATERIALS: USE ONLY FIRE STOP PRODUCTS THAT HAVE BEEN UL 1479, ASTM E-814, OR UL 2079 TESTED FOR SPECIFIC FIRE RATE CONSTRUCTION CONDITIONS CONFORMING TO CONSTRUCTION ASSEMBLY TYPE, PENETRATING ITEM TYPE, ANNULAR SPACE REQUIREMENTS, AND FIRE RATING INVOLVED FOR EACH SEPARATE INSTANCE.
- FOR SINGLE PENETRATIONS: A READY-TO-USE LATEX BASED INTUMESCENT SEALANT IS REQUIRED TO MAINTAIN THE FIRE RATING OF THE ASSEMBLY PENETRATED. THE SEALANT MUST HAVE UL LISTING FOR BOTH SLEEVED AND NON-SLEEVED APPLICATIONS.
- FOR LARGE OPENINGS: CONTAINING MULTIPLE PENETRATIONS (2 OR MORE), A READY-TO-USE FOAM INTUMESCENT BLOCK MATERIAL MUST BE ABLE TO BE REMOVED AND REINSTALLED WITHOUT COMPROMISING FIRE PROTECTION INTEGRITY. COMPLY WITH MANUFACTURER'S RECOMMENDED PROCEDURES AND PRECAUTIONS. DO NOT USE DAMAGED OR EXPIRED
- MANUFACTURERS: JOHNS MANVILLE INTERNATIONAL, 3M BRAND, CSD SEALING SYSTEMS, HILTI, CIBA-GEIGY, HEAVY-DUTY / NEALSON. REFER TO DIVISION 7 FOR FURTHER REQUIREMENTS.

COMMON S	YMBOLS & ABBREVIATIONS
-	NOT ALL SYMBOLS ARE USED FOR THIS PROJECT DIRECTION OF FLOW
	BRANCH CONNECTION, BOTTOM
Ф	BRANCH CONNECTION, TOP
ə	ELBOW, TURNED DOWN
o	ELBOW, TURNED UP
——──	SHUTOFF VALVE
───	CHECK VALVE
	PRESSURE REDUCING VALVE
Y	PRESSURE GAUGE
	UNION
	PIPING CAP
 	EXISTING PIPING TO BE REMOVED
	MATCH LINE
•	CONNECTION TO EXISTING
(# P50 1	DETAIL DESIGNATION
X #	RISER DESIGNATION
#	KEYED NOTE
<u>/#</u> \	REVISION NOTE
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITIES HAVING JURISDICTION
AP	ACCESS PANEL
ВОР	BOTTOM OF PIPE
DIA	DIAMETER
DN	DOWN
EX OR EXIST	EXISTING
FFE	FINISHED FLOOR ELEVATION
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
IE OR INV. ELEV	INVERT ELEVATION
NC	NORMALLY CLOSED
NTS	NOT TO SCALE
PSI	POUNDS PER SQUARE INCH
RPM	REVOLUTIONS PER MINUTE
RI	ROUGH-IN
SOV	SHUTOFF VALVE
TDH	TOTAL DYNAMIC HEAD
VIF	VERIFY IN FIELD

PLUMBING ABBREVIATIONS NOT ALL SYMBOLS ARE USED FOR THIS PROJECT AMERICANS WITH DISABILITIES ACT

ACCESS PANEL **BOOSTER PUMP** BATHTUB **BRANCH TO CONNECTION** BALANCE VALVE CAST IRON CLEANOUT CSS CLINICAL SERVICE SINK

DCVA DOUBLE CHECK VALVE ASSEMBLY DOWNSPOUT

DISHWASHER DOMESTIC WATER HEATER **EMERGENCY EYE WASH** EEW

ESEW EMERGENCY SHOWER & EYE WASH EMERGENCY SHOWER EXPANSION TANK

ELECTRIC WATER COOLER EWC FLOOR CLEAN OUT FCO

GRADE CLEANOUT GARBAGE DISPOSAL HOSE BIBB

HOT WATER RETURN PUMP HOT WATER STORAGE TANK ICE MAKER

INDIRECT WASTE LAVATORY MOP BASIN

NOT IN CONTRACT **OUTLET BOX**

> **ROOF DRAIN** REDUCED PRESSURE BACKFLOW PREVENTER

SANITARY STAINLESS STEEL SHOWER

SUMP PUMP

SANITARY STACK SHOP SINK

SOFT WATER

THERMOSTATIC MIXING VALVE URINAL

VENT

VACUUM BREAKER

VENT STACK VENT THRU ROOF

WASTE WC WATER CLOSET WALL CLEANOUT

WALL HYDRANT WATER HAMMER ARRESTOR

WASHER DRAIN

WATER METER WASTE STACK

WASTE STACK VENT YARD CLEANOUT

PLUMBING GENERAL NOTES

- PIPING DRAWINGS ARE TO BE CONSIDERED SCHEMATIC AND ARE NOT INTENDED TO INDICATE ALL CHANGES IN DIRECTION.
- DUE TO THE LIMITED SPACE AVAILABLE FOR THE INSTALLATION OF ALL THE PLUMBING WORK, COORDINATION BETWEEN ALL OTHER TRADES IS OF THE UTMOST IMPORTANCE.
- THESE PLANS ARE DIAGRAMMATIC IN NATURE. THIS CONTRACTOR SHALL BE PREPARED TO MAKE ALTERATIONS TO FIT JOB CONDITIONS. THIS CONTRACTOR SHALL FURNISH A COMPLETE AND CODE COMPLYING SYSTEM. THIS CONTRACTOR SHALL REPORT. IN WRITING, ANY

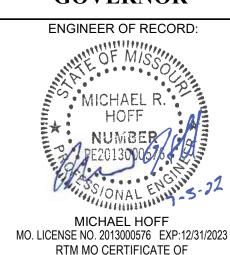
DISCREPANCIES WHICH PREVENT THE INSTALLATION OF WORK AS SHOWN.

- IF THIS CONTRACTOR DOES NOT CLEARLY UNDERSTAND THESE PLANS OR IS NOT COMPLETELY SURE OF THEIR MEANING, THIS CONTRACTOR SHOULD OBTAIN THE ENGINEER'S WRITTEN EXPLANATION AND/OR INTERPRETATION PRIOR TO SUBMITTING BIDS, SINCE THIS CONTRACTOR WILL BE HELD RIGIDLY TO THE INTERPRETATION OF THE ENGINEER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REVISIONS, TRANSITIONS, OFFSETS, ETC., TO AVOID DUCTWORK, PIPING, EQUIPMENT, OR STRUCTURE AND TO MAKE A COMPLETE AND
- COORDINATE THE INSTALLATION OF ALL PIPING, VALVES, AND EQUIPMENT WITH GENERAL CONTRACTOR AND RELATED STRUCTURAL, MECHANICAL, ELECTRICAL, AND FIRE PROTECTION
- ALL FIXTURES AND PIPING SHALL BE SIZED, VENTED, TRAPPED AND INSTALLED IN ACCORDANCE WITH INTERNATIONAL PLUMBING CODE 2018 EDITION AND THE INTERNATIONAL BUILDING CODE 2018 EDITION.
- FURNISH AND INSTALL SUPPLY STOP SHUT-OFF VALVES ON ALL FIXTURE WATER SUPPLY LINES FURNISH AND INSTALL WATER HAMMER ARRESTORS PER PDI WH201 AND AS INDICATED ON PLANS. INSTALL VALVES IN ACCESSIBLE LOCATIONS. IF LOCATION IS NOT READILY ACCESSIBLE COORDINATE ACCESS PANEL REQUIREMENTS WITH GENERAL CONTRACTOR.
- ALL PIPING SHALL BE CONCEALED IN CHASE, WALL, CEILING, FLOORING, ETC. UNLESS OTHERWISE NOTED. PIPING SHOWN OUTSIDE OF WALL FOR CLARITY ONLY.
- 0 EQUIPMENT AND FIXTURE SYMBOLOGY ON PLANS MAY NOT REFLECT ACTUAL TYPE. REFER TO SPECIFICATIONS AND SCHEDULES FOR FIXTURE OR EQUIPMENT TYPE. 1 FURNISH AND INSTALL CONCRETE EQUIPMENT PAD FOR ALL EQUIPMENT SUPPLIED BY THIS
- CONTRACTOR. PAD SHOULD BE A MINIMUM OF 4" THICK AND EXTEND 6" PAST EDGE OF EQUIPMENT IN ALL DIRECTIONS.
- 12 ALL ITEMS INCLUDED ON THESE DRAWINGS AND THE SPECIFICATIONS SHALL BE INCLUDED IN THE CONTRACTOR'S BID.
- 13 CAULK ALL PIPING PENETRATIONS THROUGH WALLS TO MINIMIZE SOUND PENETRATIONS THROUGH WALLS.
- 4 LOCATIONS OF FLOOR DRAINS, FLOOR SINKS, TRENCH DRAINS, ETC. INDICATED ON THESE DRAWINGS ARE CONSIDERED APPROXIMATE. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF FINAL AND EXACT LOCATIONS WITH ALL OTHER TRADES AND EQUIPMENT SUPPLIERS PRIOR TO INSTALLATION. DRAINS, ETC. NOT CORRECTLY LOCATED AS DETERMINED BY THE ARCHITECT/ENGINEER/OWNER, SHALL BE REMOVED AND RELOCATED AT THIS CONTRACTOR'S EXPENSE.
- 15 STARTING ELEVATION FOR SANITARY SEWER PIPING TO BE NOT LESS THAN 1'-6" BELOW FINISHED FLOOR UNLESS NOTED OTHERWISE.
- 16 ALL EXPOSED PLUMBING PIPING IN FINISHED ROOMS, OPEN TO STRUCTURE, SHALL BE PAINTED TO MATCH STRUCTURE. INSULATED PIPING AND SLEEVED PIPING SHALL BE PAINTED WITH PAINT THAT HAS ELASTOMERIC PROPERTIES, SUITABLE FOR APPLICATION ON INSULATION/SLEEVES. FOLLOW PAINT MANUFACTURER'S INSTRUCTIONS FOR SURFACE PREPARATION AND PAINT APPLICATION.

PLUMBING DEMOLITION GENERAL NOTES

- THIS CONTACTOR SHALL VISIT THE PROJECT SITE, AND VERIFY LOCATIONS, ELEVATIONS AND SIZES OF ALL UTILITIES AT SITE PRIOR TO PROCEEDING WITH WORK. EXISTING SYSTEMS AND STRUCTURE SHALL BE INVESTIGATED FOR BEST POSSIBLE ROUTING OF COLD WATER, HOT WATER, SANITARY WASTE AND VENT, STORM AND MEDICAL/LABORATORY GAS PIPING.
- THESE PLANS ARE DIAGRAMMATIC IN NATURE SINCE THE ONLY AVAILABLE INFORMATION HAS BEEN OBTAINED FROM EXISTING PLANS, SPECIFICATIONS, AND FIELD SURVEYS. THE EXACT LOCATION OF PIPING, FIXTURES, AND EQUIPMENT MAY DEVIATE FROM THE LOCATION INDICATED ON THESE DRAWINGS, EXTREME ACCURACY IS NOT GUARANTEED. THIS CONTRACTOR SHALL BE PREPARED TO MAKE ALTERATIONS TO NEW AND/OR EXISTING SERVICES TO FIT JOB CONDITIONS THIS CONTRACTOR SHALL FURNISH A COMPLETE AND CODE COMPLYING SYSTEM. THIS CONTRACTOR SHALL REPORT, IN WRITING, ANY DISCREPANCIES WHICH PREVENT THE INSTALLATION OF WORK AS SHOWN.
- IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO REPAIR THE EXISTING SURFACES TO REMAIN WHERE THEIR WORK HAS BEEN COMPLETED. REPAIR SHALL INCLUDE, BUT NOT LIMITED TO, ANY EXISTING WALL, CEILING OR FLOOR THAT IS SCHEDULED TO REMAIN. REPAIR, PAINTING, AND PATCHING SHALL BE COMPLETED BY AN APPROPRIATE CONTRACTOR QUALIFIED FOR THIS TYPE OF WORK.
- THE OWNER SHALL MAINTAIN ALL SALVAGE RIGHTS OF FIXTURES. EQUIPMENT AND MATERIALS REMOVED. HOWEVER, ALL FIXTURES, EQUIPMENT AND MATERIALS NOT CLAIMED BY THE OWNER SHALL BE REMOVED FROM THE PREMISES AND PROPERLY DISPOSED OF BY THE DEMOLITION CONTRACTOR
- CEILING REMOVAL, STORAGE, AND REPLACEMENT FOR NEW PIPING INSTALLATION SHALL BE BY THE GENERAL CONTRACTOR.
- 6 IF HAZARDOUS MATERIALS (ASBESTOS) ARE ENCOUNTERED DURING DEMOLITION OPERATIONS, THE CONTRACTOR WILL STOP WORK AT THE PARTICULAR LOCATION AND NOTIFY BUILDING OWNER OF THE HAZARDOUS MATERIAL. THE CONTRACTOR WILL CONTINUE WORK AFTER REMOVAL OF HAZARDOUS MATERIALS IS COMPLETED.
- TEMPORARY CONNECTIONS SHALL BE PROVIDED BY RESPECTIVE PLUMBING AND FIRE PROTECTION CONTRACTORS WHEN EXTENDED INTERRUPTIONS OF SERVICES AND UTILITIES SUCH AS WATER, WASTE AND FIRE PROTECTION WHICH SERVE OTHER AREAS ARE NECESSARY
- COORDINATE WITH MAINTENANCE PERSONNEL AS TO SOURCE OF UTILITIES AND TEMPORARILY DISCONNECT OR SHUT OFF SERVICES OR UTILITIES AT NEAREST MAIN. TEMPORARY AND ACCESSIBLE ISOLATION VALVES SHALL BE INSTALLED CLOSE TO THIS POINT OF WORK.
- IT IS ESSENTIAL THAT BUILDING OPERATIONS CONTINUE WITH MINIMAL INTERRUPTIONS. IT IS NECESSARY THAT OPERATION OF EXISTING SYSTEMS BE INTERFACED WITH AS LITTLE DISRUPTION AS POSSIBLE EXCEPT IN AREAS VACATED FOR CONTRUCTION WORK. WORK WHICH WILL INTERFERE WITH OPERATION OF EXISTING FIRE SUPPRESSION AND PLUMBING SYSTEMS OR WHICH REQUIRE DOWNTIME, WILL BE SCHEDULED ONLY AFTER CONSULTATION WITH AND PERMISSION GIVEN BY THE OWNER. ALLOW 10 DAYS PRIOR TO ANTICIPATED INTERRUPTION OF SYSTEMS. WORK MAY BE REQUIRED TO BE PERFORMED OUTSIDE NORMAL WORKING HOURS.
- 0 ARCHITECTURAL DEMOLITION DRAWINGS AND SPECIFICATIONS SHALL BE READ IN CONJUNCTION
- 1 ALL PIPE HANGERS AND SUPPORTS SHALL BE REMOVED ALONG WITH PIPING BEING REMOVED.
- 12 $\,$ THE CONTRACTOR SHALL COORDINATE DEMOLITION WORK WITH PROJECT'S PHASING SCHEDULE PRIOR TO COMMENCEMENT OF ANY WORK.
- 3 WHEN PLACING NEW PLUMBING FIXTURES, CONTRACTOR SHALL VERIFY LOCATIONS OF PLUMBING VENTS. OFFSET VENTS THAT TERMINATE WITHIN 12 FEET OF HVAC UNITS OUTDOOR AIR INTAKES. CONTRACTOR SHALL FIELD VERIFY PRIOR TO BID WHERE THE INTERFERENCE'S ARE AND PRICE ACCORDINGLY OR MAKE ALLOWANCES IN BID.
- USE CAUTION WHEN SAW-CUTTING THROUGH EXISTING CONCRETE FLOOR OR WALL CONSTRUCTION FOR THE INSTALLATION OF PLUMBING SYSTEMS TO AVOID CUTTING REBAR AT EDGE OF OPENING. LEAVE SUFFICIENT REBAR EXPOSED TO TIE NEW REINFORCING FOR REPLACEMENT CONCRETE AND/OR OTHER STRUCTURAL ATTACHMENTS FOR NEW CONSTRUCTION.

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**



AUTHORITY 2014035826



OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF ELEMENTARY & SECONDARY EDUCATION

REPAIR SWIMMING POOL

MISSOURI SCHOOL FOR THE BLIND 3815 MAGNOLIA AVENUE ST. LOUIS, MO

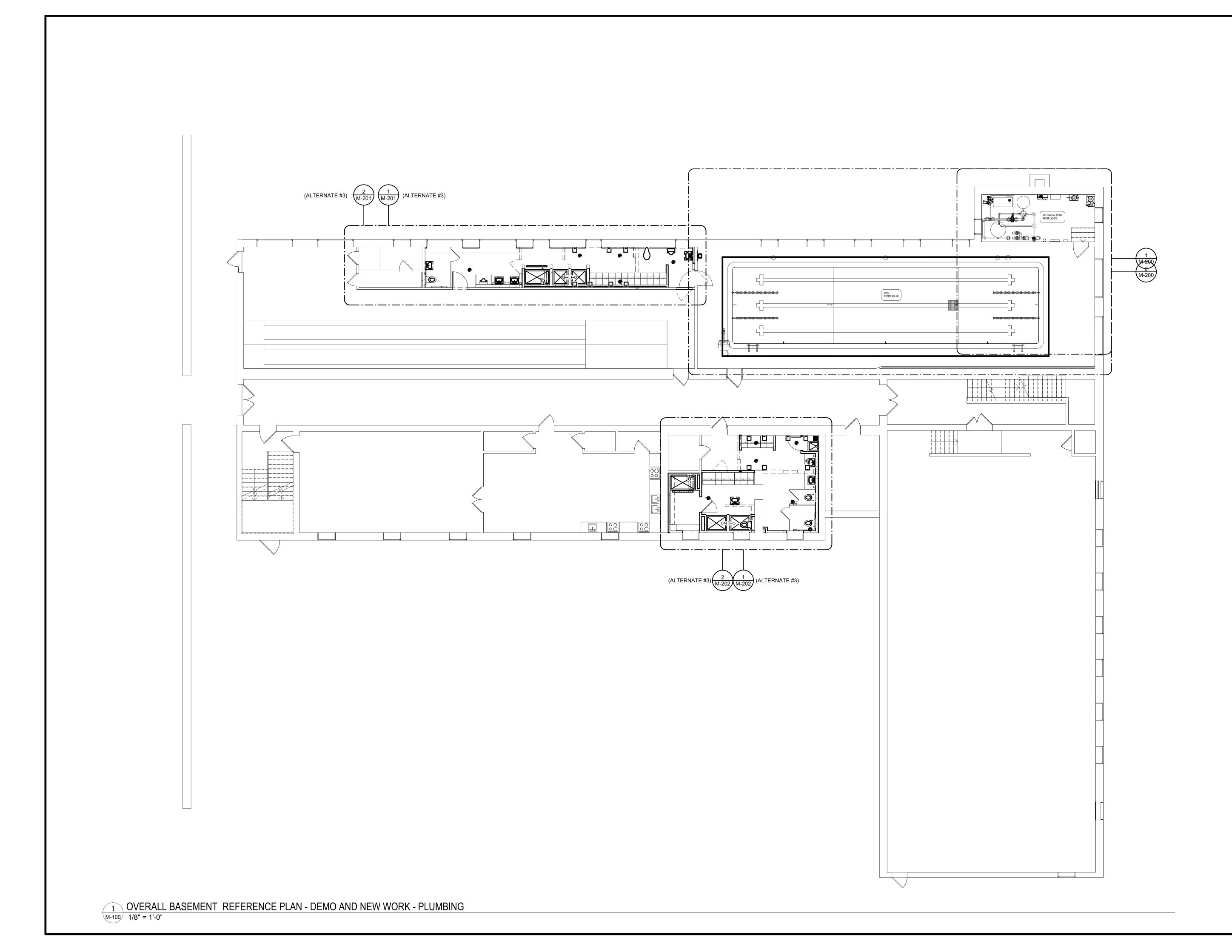
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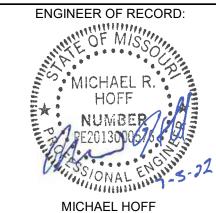
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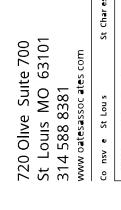
SHEET TITLE: LEGEND & **NOTES** -**MECHANICAL**

SHEET NUMBER:





MICHAEL HOFF
MO. LICENSE NO. 2013000576 EXP:12/31/2023
RTM MO CERTIFICATE OF
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OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

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REPAIR SWIMMING POOL

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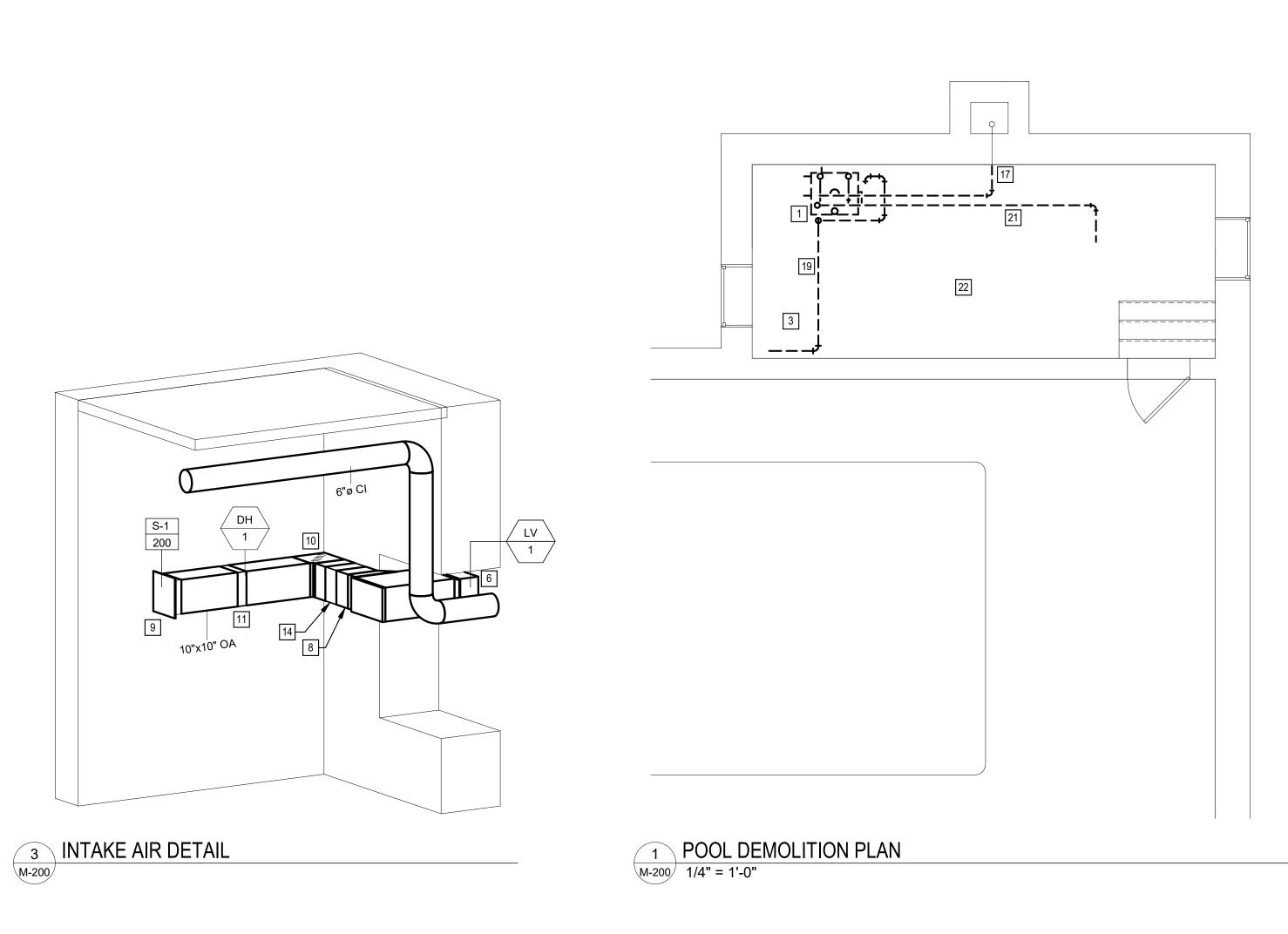
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DRAWN BY: ASK
CHECKED BY: MJB
DESIGNED BY: ASK

SHEET TITLE:

OVERALL PLAN
- MECHANICAL

SHEET NUMBER:

M-100



MECHANICAL ROOM EXHAUST SYSTEM CONTROL SEQUENCE:

THE INTENT OF THE FOLLOWING CONTROL SEQUENCE IS TO PROVIDE 24/7 EXHAUST FOR THE MECHANICAL ROOM AT DURING ALL SEASONS AND TO CREATE A NEGATIVE PRESSURE ROOM. LOUVER (LV-1) ALLOWS MAKEUP AIR TO ENTER THE ROOM FROM OUTSIDE. DUCT HEATER (DH-1) HEATS THE MAKEUP AIR AS NEEDED TO KEEP THE ROOM AT A MINIMUM 60°F. IN THE EVENT THAT THE DUCT HEATER MALFUNCTIONS, THE TEMPERATURE IN THE ROOM WILL DROP TO 52°F AND THE THERMOSTAT WILL SIGNAL THE SYSTEM TO SHUTDOWN TO KEEP UNTREATED MAKEUP AIR FROM FREEZING EQUIPMENT, PIPES, ETC. EQUIPMENT ROOM SHALL BE POSITIVELY PRESSURIZED TO MAINTAIN PROPER OPERATION OF COMBUSTION APPLIANCES IN THE ROOM AND TO AVOID PULLING COMBUSTION EXHAUST AIR IN THROUGH THE COMBUSTION EXHAUST

EXHAUST FAN (EF-

NORMAL OPERATION: ON 24HRS A DAY AND 7 DAYS A WEEK.

- MANUAL SHUTOFF CONTROL SHALL BE BY CIRCUIT BREAKER IN NEARBY ELECTRIC
- WHEN EXHAUST FAN (EF-1) IS OFF, DUCT HEATER (DH-1) SHALL BE OFF.
- WHEN EXHAUST FAN (EF-1) IS OFF, LOUVER ON FAN SHALL CLOSE.
 WHEN EXHAUST FAN (EF-1) IS OFF, LOUVER (LV-1) SHALL CLOSE.

Γ HEATER (DH-1):

- WHEN EXHAUST FAN (EF-1) IS OFF, DUCT HEATER (DH-1) SHALL BE OFF.
- ON/OFF SHALL BE CONTROLLED BY THERMOSTAT SET POINT.
 ON/OFF SHALL BE CONTROLLED BY DUCT AIRFLOW SWITCH.

THERMOSTAT (T-1):

SHALL BE SET AT 60°F EMERGNECY OVERRIDE: IF TEMPERATURE IN ROOM DROPS BELOW 52° OR ABOVE 90°, SIGNAL EXHAUST FAN (EF-1) TO SHUTOFF.

OUVER (LV-1):

WHEN EXHAUST FAN (EF-1) IS OFF, ACTUATOR ON LOUVER (LV-1) CLOSES LOUVER.
 WHEN EXHAUST FAN (EF-1) IS ON, ACTUATOR ON LOUVER (LV-1) OPENS LOUVER.

GENERAL NOTES

- A. PROVIDE ALL NECESSARY RELAYS, CONTROL WIRING, TRANSFORMERS, ETC. TO PROVIDE CONTROL SEQUENCE AS NTOED ON PLANS FOR MECHANICAL ROOM (POOL EQUIPMENT ROOM) EXHAUST AIR SYSTEM. ALL DEVICES AND WIRING SHALL BE IN IP68 RATED RACEWAYS AND ENCLOSURES AND INSTALLED IN ACCESSIBLE LOCATION.
- B. CONTRACTOR SHALL MAINTAIN ALL RATED ASSEMBLIES AS DESIGNATED ON ARCHITECTURAL PLANS.
- C. CONTRACTOR SHALL MAINTAIN THE OPERATION AND INTEGRITY OF ANY EXISTING MECHANICAL SYSTEMS NOT NOTED FOR REMOVAL ON THESE PLANS AND VERIFY THEIR OPERATION PRIOR TO WORK COMPLETION.
- D. CONTRACTOR IS RESPONSIBLE FOR ALL CORING, PATCH, AND REPAIR OF ALL WALL AND FLOOR SYSTEMS AS REQUIRED DUE TO NEW CONSTRUCTION.

 MAINTAIN THE RATINGS OF ALL RATED ASSEMBLIES. PROVIDE ALL MATERIAL, MODIFICATIONS, AND ADJUSTMENTS AS NEEDED TO MAINTAIN THESE RATINGS THROUGH WALLS, FLOORS, CEILINGS, STAIRWELLS, ETC. AS INDICATED ON ARCHITECTURAL PLANS.
- . CONTRACTOR SHALL PROVIDE ALL PATCHWORK AND PREPARE PATCHED AREAS FOR FINISH PER ARCHITECT REQUIREMENTS.
- F. CONTRACTOR SHALL SCHEDULE AND EXECUTE ALL WORK WITH REGARD TO THE OWNER'S USE AND OCCUPANCY OF THE BUILDING AND PROPERTY. COORDINATE ALL SYSTEM SHUT-DOWN HOURS WITH THE OWNER.
- G. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL FOR ALL DEMOLISHED
 MATERIALS AND EQUIPMENT INCLUDING BUT NOT LIMITED TO DIFFUSERS,
 EQUIPMENT, DEVICES, SENSORS, ETC. STORE ITEMS ON SITE AS DIRECTED BY
- REFER TO ARCHITECTURAL DEMOLITION PLANS FOR PHASING AND EXTENTS OF DEMOLITION.
- CLOSELY COORDINATE ALL WORK WITH ALL OTHER TRADES AND NEW CONSTRUCTION.
- J. ANY ADDITIONAL IMPACT COST, DESIGN MODIFICATIONS, ADDITIONAL ARCHITECTURAL AND/OR ENGINEERING SERVICES, MATERIALS, LABOR CHANGES, SCHEDULE CHANGES AND/OR OTHER UNANTICIPATED CONSEQUENCES RESULTING FROM SUBSTITUTIONS OR CONTRACTOR'S DISCRETION IN LIEU OF THE CONTRACT DOCUMENTS SHALL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR, SUBCONTRACTOR, AND/OR SUPPLIER. NO ADDITIONAL COST SHALL BE INCURRED TO THE ARCHITECT, ENGINEER OR OWNER FOR THESE CHANGES.
- K. PAINT GAS PIPING YELLOW IN POOL EQUIPMENT ROOM

KEYED NOTES

- REMOVE EXISTING POOL HEATER AND ALL ASSOCIATED ACCESSORIES, SUPPORTS, ETC.
- 2 PROVIDE NEW POOL HEATER.
- REMOVE EXISTING SUMP PUMPS AND ASSOCIATED PUMP CONTROLLER. RETAIN PUMP DISCHARGE PIPING. COORDINATE ALL WORK WITH ELECTRICAL CONTRACTOR.
- PROVIDE NEW SUMP PUMPS IN EXISTING SUMP PUMP PIT. CONNECT EXISTING SUMP DISCHARGE PIPING TO NEW SUMP PUMPS. COORDINATE ALL ELECTRICAL REQUIREMENTS WITH MANUFACTURER REQUIREMENTS, NEW CONTROL PANEL, AND ELECTRICAL CONTRACTOR.
- 5 PROVIDE NEW WALL-MOUNTED PROP EXHAUST FAN IN EXISTING WINDOW
- 6 PROVIDE NEW LOUVER IN EXISTING WINDOW LOCATION. KEEP LOUVER INSTALLATION HIGH AND TIGHT IN EIXSITNG WINDOW LOCATION. INSTALL PER MANUFACTURER'S REQUIREMENTS, REFER TO DETAILS FOR MORE INFORMATION. COORDINATE TO PROVIDE INSULATED PARTITION IN REMAINING WINDOW OPENING, AND REFER TO ARCHITECTURAL PLANS.
- 7 PROVIDE MOTORIZED ACTUATOR ON ACCESSIBLE SIDE OF DUCT AS SHOWN. PROVIDE ACCESS PANEL IN DUCTWORK AT MOTORIZED ACTUATOR.
- 8 PROVIDE 1" FILTER RACK AND MERV 8 FILTER.
- 9 PROVIDE GRILLE WITH INTEGRAL BALANCING DAMPER AND BALANCE TO CFM AS
- COORDINATE ALL WORK WITH EXISTING AND NEW EQUIPMENT, CLEARANCES, CONDUIT, PIPING, ETC. ADJUST SYSTEM INSTALLATION ELEVATION AS NEEDED.
- PROVIDE NEW DUCT HEATER PER MANUFACTURER REQUIREMENTS. KEEP 24" FROM ELBOW, 24" FROM GRILLE, AND 48" FROM FILTER RACK. MAINTAIN CONTROL PANEL REQUIRED CLEARANCE.
- PROVIDE NEW HARD-WIRED THERMOSTAT PRO T725 WITH TRANSFORMER IN DUCT HEATER CONTROL PANEL. COORDINATE INSTALLATION WITH THERMOSTAT AND DUCT HEATER MANUFACTURER, AND WITH NEARBY EQUIPMENT ON WALL. KEEP THERMOSTAT ON INTERIOR WALL AND AWAY FROM HEAT GENERATING EQUIPMENT. INTERCONNECT WITH EQUIPMENT PER CONTROL SEQUENCE ON
- IN MECHANICAL ROOM: ALL MECHANICAL CONTROLS DEVICES, EQUIPMENT, AND CONTROL WIRING SHALL BE PROVIDED IN PVC CONDUIT AND IP68 RATED ENCLOSURES IN ACCESSIBLE LOCATION. ALL DUCTOWRK SHALL BE ALUMINUM PER SMACNA REQUIREMENTS UNLESS NOTED OTHERWISE.
- 14 PROVIDE GRAVITY BACKDRAFT DAMPER.
- PROVIDE NEW SUMP PUMP CONTROL PANEL EQUAL TO: ZOELLER 10-1112 REV-B. COORDINATE PUMP CONTROL SETUP WITH EXISTING PUMP CONTROLLER SETUP. COORDINATE INSTALLATION WITH OTHER TRADES AND CLEARANCE REQUIREMENTS.
- PROVIDE NEW CARBON MONOXIDE DETECTOR AND COORDINATE LOCATION WITH NEARBY EQUIPMENT. INTERCONNECT WITH NEW EXHAUST FAN <u>EF-1</u> TO SHUTDOWN FAN ON ALARM.
- 17 REMOVE EXISTING POOL HEATER FLUE DUCT WITHIN ROOM BACK TO WALL AND
- CAP EXISTING FLUE WALL PENETRATION AND PROVIDE UNITERUPTED AIR TIGHT SEAL AROUND NEW WALL PENETRATION CAP.
- 19 REMOVE EXISTING GAS PIPING IN ROOM SERVING EXISTING POOL HEATER AND REPLACE WITH NEW PER NEW WORK PLAN.
- 20 PROVIDE NEW 2" GAS PIPING FROM EXISTING 2" OR GREATER GAS PIPING
- SERVING ROOM AND DOWN TO NEW POOL HEATER.
- 21 REMOVE EXISTING WATER PIPING SERVING EXISTING POOL HEATER AND REPLACE WITH NEW PER NEW WORK PLANS.
- PROVIDE NEW 2" HOT AND COLD WATER PIPING TO SERVE NEW POOL HEATER, COORDINATE CONNECTION REQUIREMENTS WITH POOL HEATER MANUFACTURER REQUIREMENTS. EXTEND NEW COLD WATER PIPING TO COLD WATER PIPING SERVING ROOM. EXTEND NEW HOT WATER PIPING TO POOL EQUIPMENT AND COORDIANT REQUIREMENTS WITH POOL EQUIPMENT PROVIDER
- ALTERNATE #2: REMOVE AND SALVAGE EXISTING TO REMAIN WALL-MOUNTED EQUIPMENT AND DEVICES IN AREA AND STORE IN A SAFE PLACE FOR REINSTALLATION.
- ALTERNATE #2: COORDINATE INSTALLATION OF EXISTING SALVAGED WALL-MOUNTED EQUIPMENT AND DEVICES WITH NEW WALL FINISH PROVIDER.

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



AUTHORITY 2014035826

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OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF
ELEMENTARY &
SECONDARY EDUCATION

REPAIR SWIMMING POOL

MISSOURI SCHOOL FOR THE BLIND 3815 MAGNOLIA AVENUE ST. LOUIS, MO

PROJECT # E2107-01 SITE# 2011 FACILITY # 5012011003, 501201104

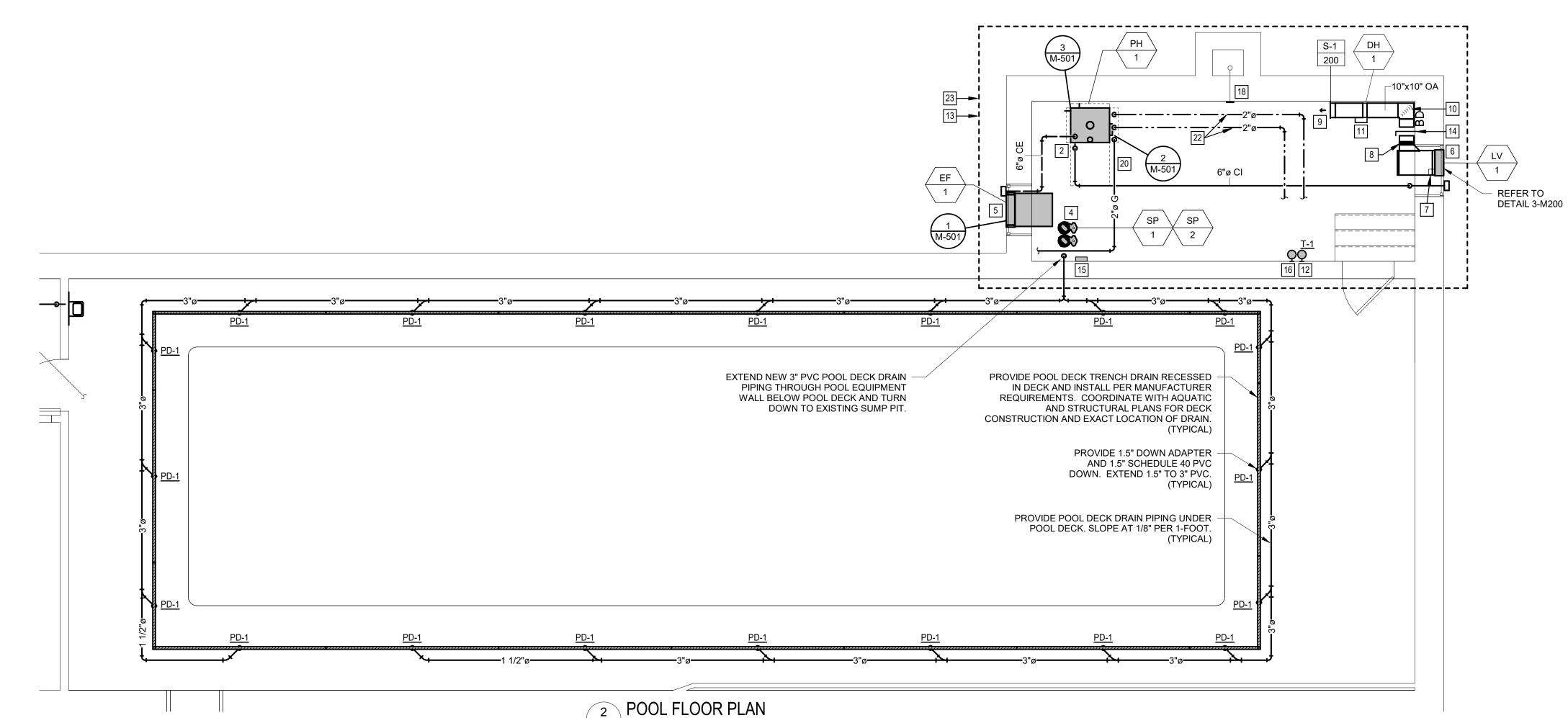
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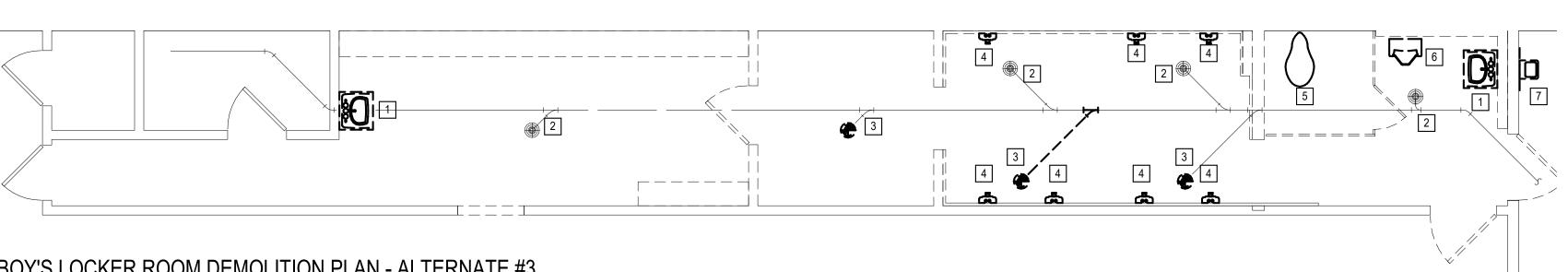
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CHECKED BY: MJB
DESIGNED BY: ASK

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POOL PLANS MECHANICAL

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M-200



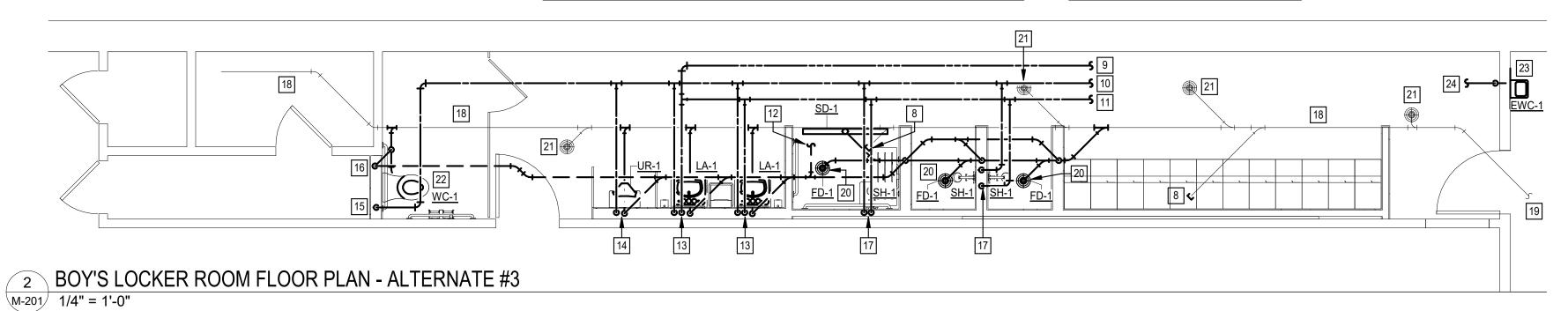


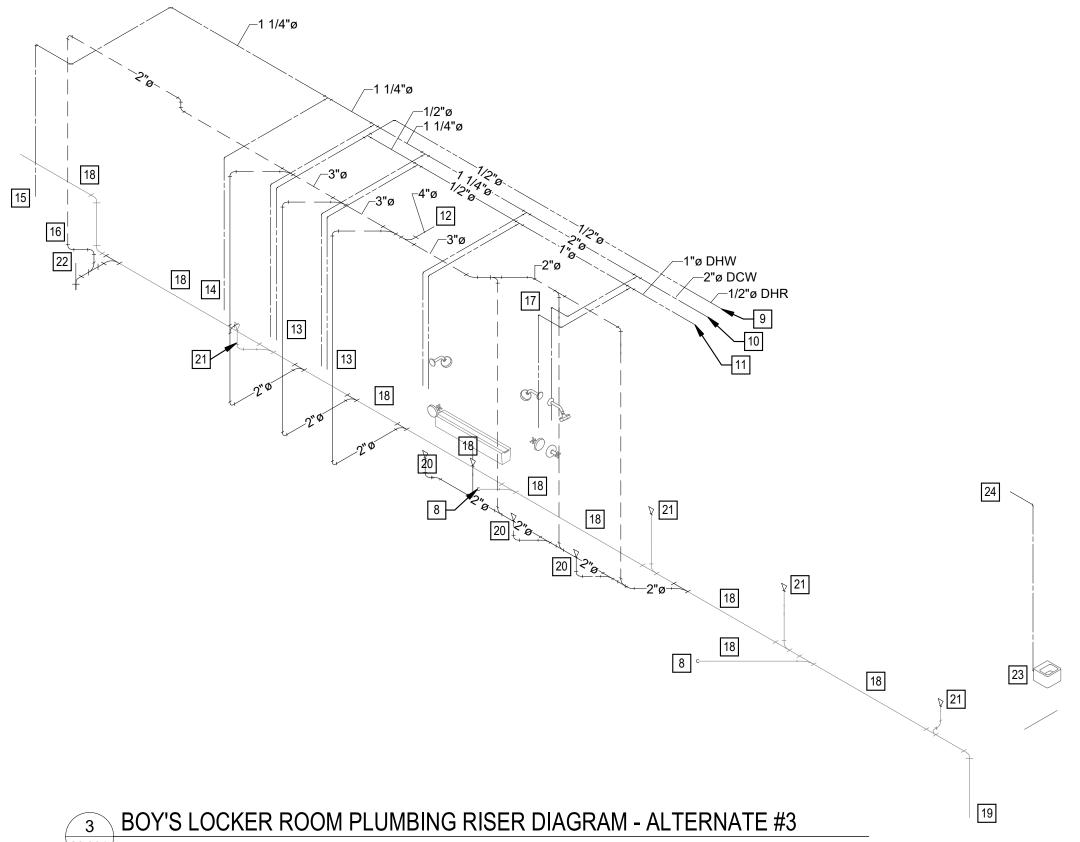
BOY'S LOCKER ROOM DEMOLITION PLAN - ALTERNATE #3

M-201 1/4" = 1'-0"

IN THIS AREA: ALL HORIZONTAL HOT WATER, COLD WATER, WASTE VENT DISTRIBUTION AND BRANCH PIPING SHALL BE SUSPENDED FROM EXISTING CEILING. REFER TO ARCHITECTURAL PLANS FOR CEILING TYPE. ALL PLUMBING DROPS SHALL BE RECESSED IN NEW WALLS. PIPING SHOWN OFFSET FOR CLARITY AND ROUTING IS SCHEMATIC ONLY.

UNDERGROUND PIPING IN THIS AREA IS SCHEMATIC AND BASED ON LIMITED INFORMATION FROM EXISTING VIDEO SCOPING. NOT ALL EXISTING UNDERGROUND PIPING IS SHOWN





GENERAL NOTES

- . PROVIDE TWO 45° ELBOWS INSTEAD OF A 90° ELBOW WHEN MAKING 90° TURNS WITH 4" OR GREATER WASTE PIPING.
- PROVIDE FINISHED FLOOR CLEANOUTS PER PLUMBING FIXTURE SCHEDULE ON ANY NEW OR EXISTING 4" OR GREATER WASTE PIPING EXCEEDING 75-FT IN LENGTH ASSOCIATED WITH THE SCOPE OF THIS PROJECT. PROVIDE TWO-WAY TEES IN-LINE WITH MAIN AND FULL SIZE WASTE PIPING UP TO CLEANOUT.
- C. PROVIDE FINISHED WALL CLEANOUTS IN WASTE PIPING UNDER LAVATORIES.
- PROVIDE HYDRO-JETTING FOR ALL EXISTING TO REMAIN WASTE PIPING, SERVING LOCKER ROOMS, BACK TO EXISTING MAIN SERVING LOCKER ROOM.
- CONTRACTOR SHALL VERIFY ALL NEW AND EXISTING PLUMBING SYSTEMS AFFECTED BY THE SCOPE OF THIS PROJECT ARE FULLY OPERATIONAL AS INTENDED PER THIS DESIGN BEFORE PROJECT COMPLETION.
- CONTRACTOR SHALL MAINTAIN OPERATION INTEGRITY OF ALL EXISTING TO REMAIN PLUMBING SYSTEMS AND PROVIDE ALL NECESSARY PIPING, FITTINGS, DEVICES, EQUIPMENT, ETC.
- PROVIDE SHUTOFF VALVES ON ALL NEW DOMESTIC WATER BRANCH PIPING SERVING A SINGLE FIXTURE. LOCATE IN ACCESSIBLE LOCATION.
- PROVIDE SHUTOFF VALVES ON ALL NEW DOMESTIC WATER DISTRIBUTION PIPING SERVING AREA AND LOCATE NEAR EXISTING MAIN LINE AND IN ACCESSIBLE LOCATION.

KEYED NOTES

- 1 REMOVE EXISTING LAVATORY AND ALL ASSOCIATED PIPING, ACCESSORIES, SUPPORTS, ETC.
- 2 EXISTING FLOOR DRAIN TO REMAIN.
- REMOVE EXISTING FLOOR DRAIN AND BELOW SLAB PIPING BACK TOP MAIN LATERAL.
- REMOVE EXISTING SHOWER AND ALL ASSOCIATED PIPING, HANGERS, BRACKETS, ETC.
- 5 REMOVE EXISTING WATER CLOSET AND ASSOCIATED PIPING.

DOMESTIC HOT WATER CIRCULATION SYSTEM.

- REMOVE EXISTING LAVATORY AND ASSOCIATED PIPING, HANGERS, BRACKETS, ACCESSORIES.
- 7 REMOVE EXISTING DRINKING FOUNTAIN AND ASSOCIATED COLD WATER PIPING. PREPARE WASTE AND VENT PIPING FOR NEW FIXTURE CONNECTION.
- 8 CAP EXISTING WASTE PIPING UNDER SLAB AND SEAL SLAB PENETRATION.
- 9 PROVIDE 0.75" DOMESTIC HOT WATER RETURN BACK TO EXISTING DOMESTIC HOT WATER RECIRCULATION PUMP SERVING AREA. REBALANCE EXISTING
- PROVIDE 2" COLD WATER TO SERVE AREA AS SHOWN. EXTEND TO NEAREST EXISTING 2" OR LARGER DOMESTIC COLD WATER PIPING SERVING LOCKER
- 11 PROVIDE 1" DOMESTIC HOT WATER AND EXTEND TO NEAREST 1.25" OR LARGER
- DHW PIPING SERVING LOCKER ROOM. PROVIDE NEW 3" WASTE VENT PIPING AND EXTEND TO NEAREST 3" OR GREATER
- WASTE VENT SERVING LOCKER ROOM. 13 PROVIDE 0.5" HOT AND COLD WATER TO NEW THERMOSTATIC MIXING VALVE
- SERVING LAVATORY. EXTEND 0.75" TEMPERED WATER AND 0.5" COLD WATER AND 2" VENT DOWN TO NEW LAVATORY. PROVIDE THERMOSTATIC MIXING VALVE AND SUPPORT PER MANUFACTURER REQUIREMENTS.
- 14 PROVIDE 0.75" COLD WATER AND 2" VENT DOWN TO NEW URINAL
- 15 PROVIDE 1.25" COLD WATER DOWN TO NEW WATER CLOSET.
- 16 PROVIDE 2" VENT DOWN UNDER SLAB AND ANGLE TO NEW UNDERGROUND WASTE PIPING SERVING NEW WATER CLOSET.
- PROVIDE 0.75" HOT AND COLD WATER DOWN TO SERVE NEW SHOWERS. TEE 0.5" HOT AND COLD WATER TO EACH SHOWER'S MIXING VALVE. PROVIDE 0.5" TEMPERED WATER FROM EACH VALVE TO THEIR RESPECTIVE SHOWER HEAD. COORDINATE WITH NEW SHOWER HEAD AND VALVE INSTALLATION.
- 18 EXISTING WASTE PIPING SHALL REMAIN.
- 19 APPROXIMATE EXISTING WASTE PIPING LOCATION AND CONTINUATION TO BUILDING WASTE SYSTEM.
- 20 PROVIDE 2" TRAPPED WASTE UP TO NEW FLOOR DRAIN.
- [21] EXISTING FLOOR DRAIN AND ASSOCIATED WASTE PIPING SHALL REMAIN.
- 22 PROVIDE 4" WASTE UP TO NEW WATER CLOSET.
- 23 PROVIDE NEW DRINKING FOUNTAIN IN EXISTING LOCATION. RECONNECT EXISTING WASTE AND VENT PIPING. PROVIDE NEW 0.5" COLD WATER PIPING AND CONNECT TO DRINKING FOUNTAIN.
- 24 EXTEND NEW 0.5" COLD WATER PIPING TO NEAREST NEW OR EXISTING, 0.75" OR GREATER COLD WATER DISTRIBUTION PIPING SERVING LOCKER ROOM.

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**

ENGINEER OF RECORD: MICHAEL F

MO. LICENSE NO. 2013000576 EXP:12/31/2023 RTM MO CERTIFICATE OF AUTHORITY 2014035826

OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF ELEMENTARY & SECONDARY EDUCATION

REPAIR SWIMMING POOL

MISSOURI SCHOOL FOR THE BLIND 3815 MAGNOLIA AVENUE ST. LOUIS, MO

PROJECT # E2107-01 2011 FACILITY # 5012011003, 501201104

REVISION: REVISION: DATE **REVISION:** DATE:

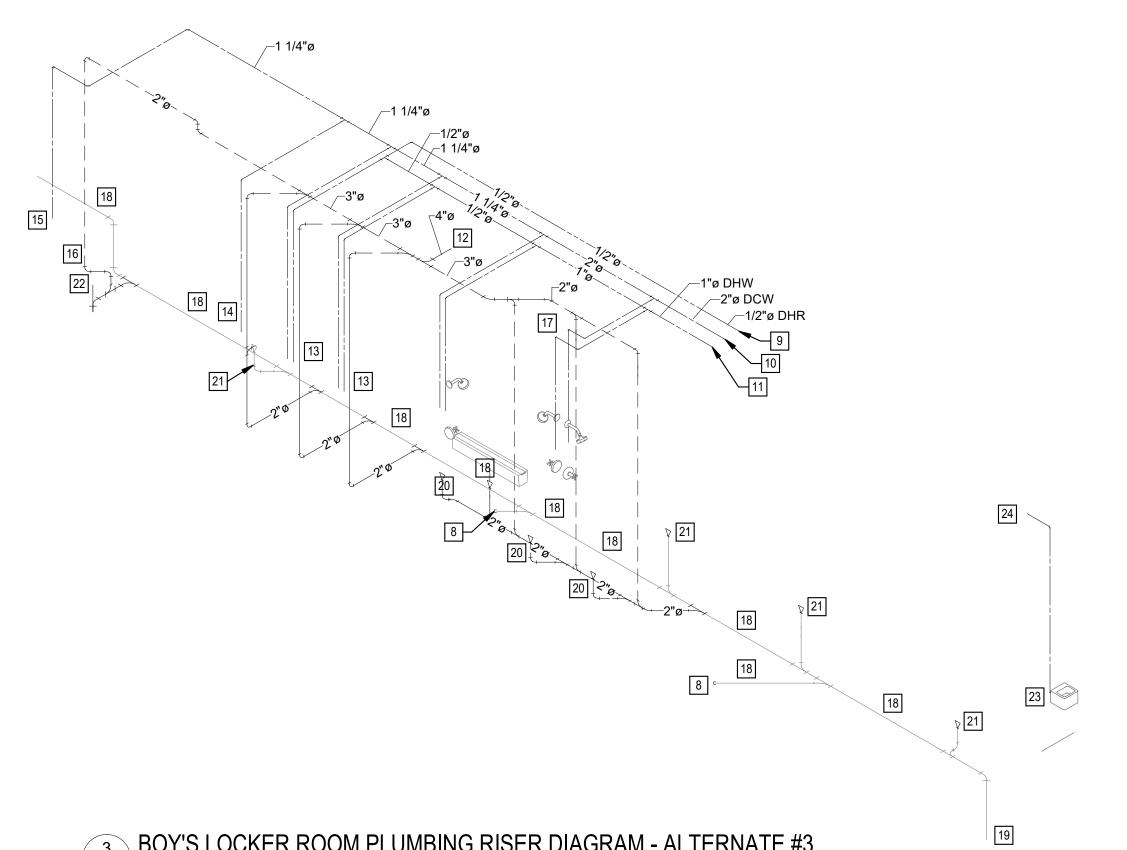
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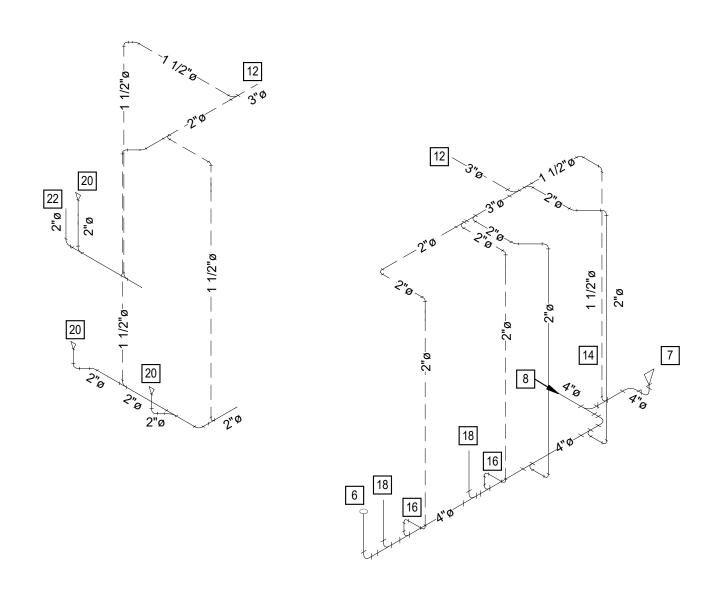
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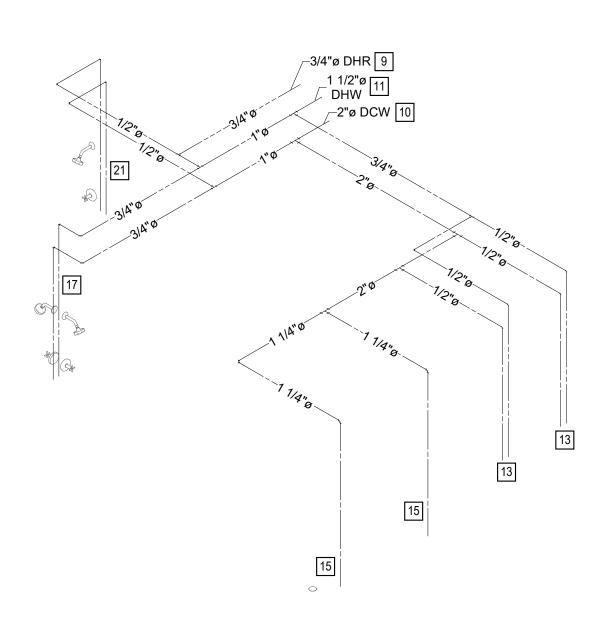
BOY'S LOCKER ROOM PLANS -MECHANICAL

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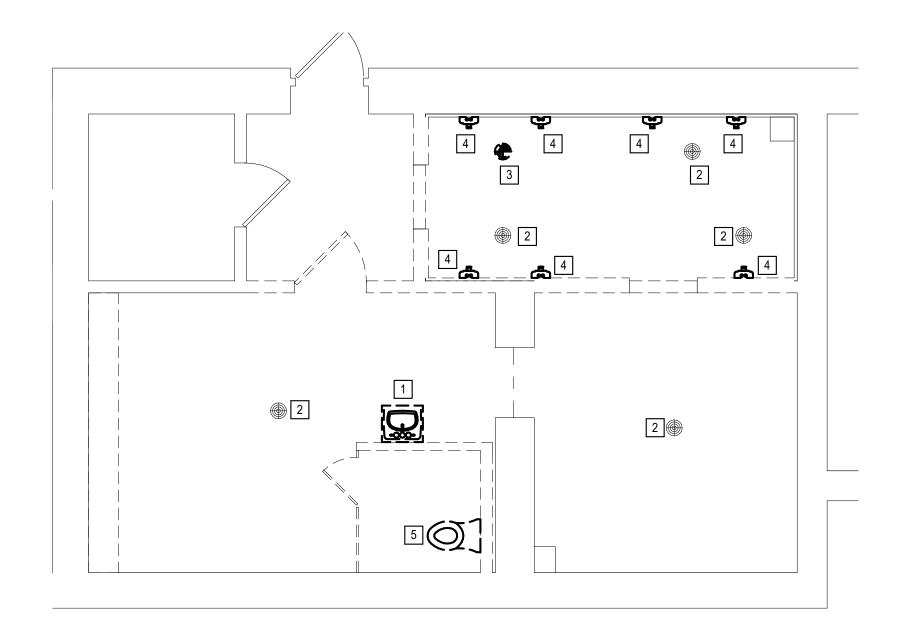




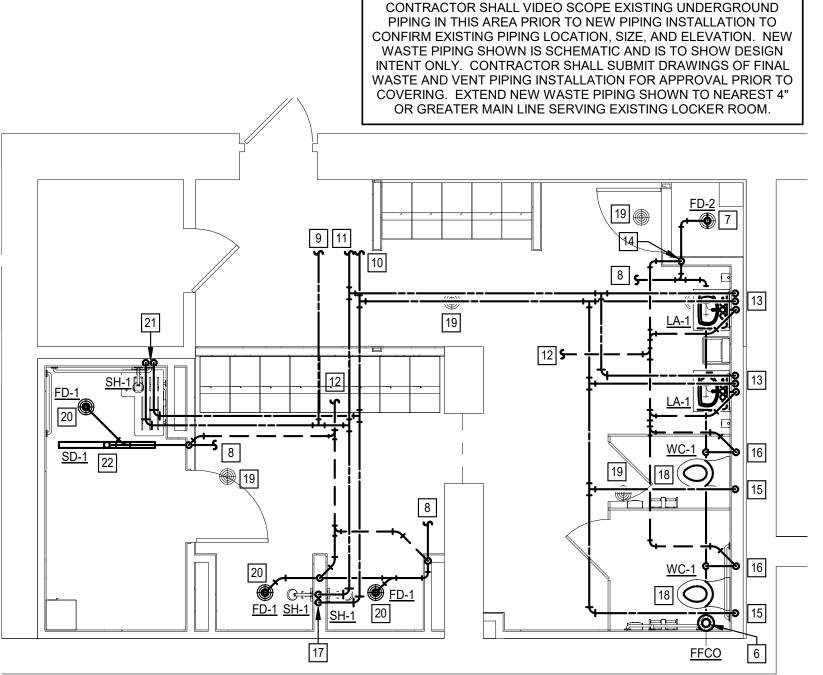




GIRL'S LOCKER ROOM DOMESTIC WATER RISER DIAGRAM - ALTERNATE #3







GIRL'S LOCKER ROOM FLOOR PLAN - ALTERNATE #3

GENERAL NOTES

- PROVIDE TWO 45° ELBOWS INSTEAD OF A 90° ELBOW WHEN MAKING 90° TURNS WITH 4" OR GREATER WASTE PIPING.
- PROVIDE FINISHED FLOOR CLEANOUTS PER PLUMBING FIXTURE SCHEDULE ON ANY NEW OR EXISTING 4" OR GREATER WASTE PIPING EXCEEDING 75-FT IN LENGTH ASSOCIATED WITH THE SCOPE OF THIS PROJECT. PROVIDE TWO-WAY TEES IN-LINE WITH MAIN AND FULL SIZE WASTE PIPING UP TO CLEANOUT.
- PROVIDE FINISHED WALL CLEANOUTS IN WASTE PIPING UNDER LAVATORIES.
- PROVIDE HYDRO-JETTING FOR ALL EXISTING TO REMAIN WASTE PIPING, SERVING LOCKER ROOMS, BACK TO EXISTING MAIN SERVING LOCKER ROOM.
- CONTRACTOR SHALL VERIFY ALL NEW AND EXISTING PLUMBING SYSTEMS AFFECTED BY THE SCOPE OF THIS PROJECT ARE FULLY OPERATIONAL AS INTENDED PER THIS DESIGN BEFORE PROJECT COMPLETION.
- CONTRACTOR SHALL MAINTAIN OPERATION INTEGRITY OF ALL EXISTING TO REMAIN PLUMBING SYSTEMS AND PROVIDE ALL NECESSARY PIPING, FITTINGS, DEVICES, EQUIPMENT, ETC.
- PROVIDE SHUTOFF VALVES ON ALL NEW DOMESTIC WATER BRANCH PIPING SERVING A SINGLE FIXTURE. LOCATE IN ACCESSIBLE LOCATION.
- PROVIDE SHUTOFF VALVES ON ALL NEW DOMESTIC WATER DISTRIBUTION PIPING SERVING AREA AND LOCATE NEAR EXISTING MAIN LINE AND IN ACCESSIBLE LOCATION.

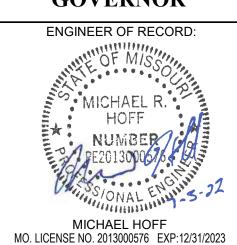
KEYED NOTES

- 1 REMOVE EXISTING LAVATORY AND ALL ASSOCIATED PIPING, ACCESSORIES, SUPPORTS, ETC.
- 2 EXISTING FLOOR DRAIN TO REMAIN.
- REMOVE EXISTING FLOOR DRAIN AND BELOW SLAB PIPING BACK TOP MAIN
- REMOVE EXISTING SHOWER AND ALL ASSOCIATED PIPING, HANGERS, BRACKETS, ETC.
- 5 REMOVE EXISTING WATER CLOSET AND ASSOCIATED PIPING.
- 6 PROVIDE 4" WASTE UP TO FINISHED FLOOR CLEANOUT.
- 7 PROVIDE 4" TRAPPED WASTE UP TO NEW FLOOR DRAIN.

DHW PIPING SERVING LOCKER ROOM.

- 8 PROVIDE NEW WASTE PIPING AND EXTEND TO NEAREST 4" OR GREATER WASTE PIPING MAIN SERVING LOCKER ROOM.
- 9 PROVIDE 0.75" DOMESTIC HOT WATER RETURN BACK TO EXISTING DOMESTIC HOT WATER RECIRCULATION PUMP SERVING AREA. REBALANCE EXISTING DOMESTIC HOT WATER CIRCULATION SYSTEM.
- PROVIDE 2" COLD WATER TO SERVE AREA AS SHOWN. EXTEND TO NEAREST EXISTING 2" OR LARGER DOMESTIC COLD WATER PIPING SERVING LOCKER
- 11 PROVIDE 1.5" DOMESTIC HOT WATER AND EXTEND TO NEAREST 1.25" OR LARGER
- PROVIDE NEW 3" VENT PIPING AND EXTEND TO NEAREST 3" OR GREATER VENT
- PROVIDE 0.5" HOT AND COLD WATER TO NEW THERMOSTATIC MIXING VALVE SERVING LAVATORY. EXTEND 0.75" TEMPERED WATER AND 0.5" COLD WATER AND 2" VENT DOWN TO NEW LAVATORY. PROVIDE THERMOSTATIC MIXING VALVE AND SUPPORT PER MANUFACTURER REQUIREMENTS.
- 14 PROVIDE 2" VENT DOWN TO WASTE PIPING SERVING MOP BASIN.
- 15 PROVIDE 1.25" COLD WATER DOWN TO NEW WATER CLOSET.
- PROVIDE 2" VENT DOWN UNDER SLAB AND ANGLE TO NEW UNDERGROUND WASTE PIPING SERVING NEW WATER CLOSET.
- PROVIDE 0.75" HOT AND COLD WATER DOWN TO SERVE NEW SHOWERS. TEE 0.5" HOT AND COLD WATER TO EACH SHOWER'S MIXING VALVE. PROVIDE 0.5" TEMPERED WATER FROM EACH VALVE TO THEIR RESPECTIVE SHOWER HEAD. COORDINATE WITH NEW SHOWER HEAD AND VALVE INSTALLATION.
- 18 PROVIDE 4" WASTE UP TO NEW WATER CLOSET.
- 19 EXISTING FLOOR DRAIN AND ASSOCIATED WASTE PIPING SHALL REMAIN.
- 20 PROVIDE 2" TRAPPED WASTE UP TO NEW FLOOR DRAIN.
- PROVIDE 0.5" HOT AND COLD WATER DOWN TO SHOWER MIXING VALVE. PROVIDE 0.75" TEMPERED WATER FROM MIXING VALVE TO THEIR RESPECTIVE SHOWER HEAD. COORDINATE WITH NEW SHOWER HEAD AND VALVE
- PROVIDE 2" TRAPPED WASTE UP TO NEW LINEAR SHOWER DRAIN. COORDINATE INSTALLATION CLOSELY WITH SLAB AND FLOOR PROVIDER.

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**



RTM MO CERTIFICATE OF

AUTHORITY 2014035826



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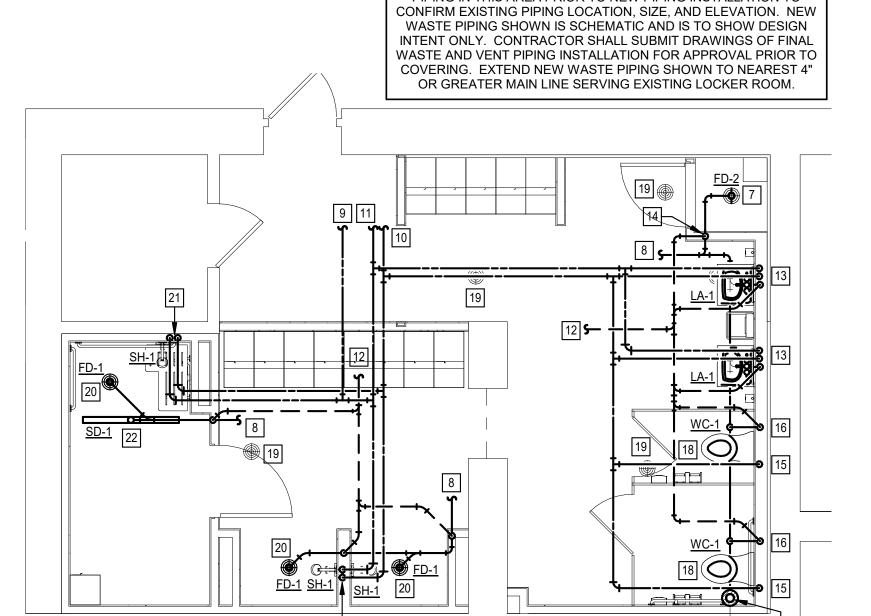
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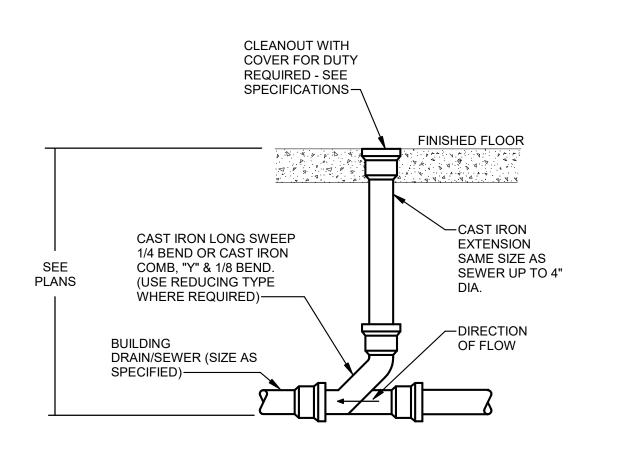
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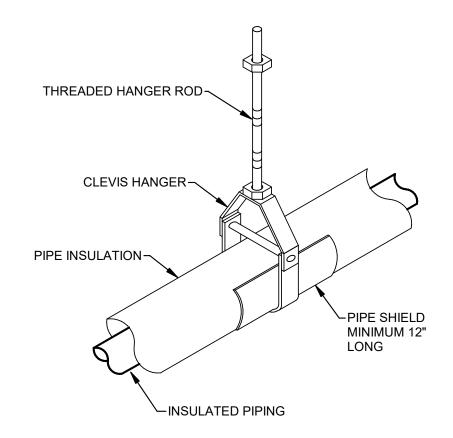
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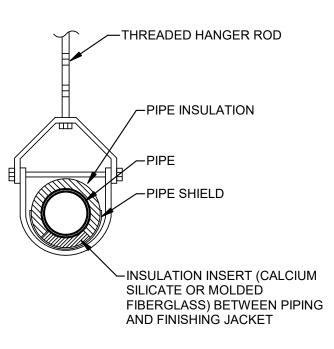
GIRL'S LOCKER ROOM PLANS -MECHANICAL

SHEET NUMBER:









SECTION THRU HANGER

REFER TO SPECS FOR INSULATION AND HANGER SUPPORTS.

1 FLOOR CLEANOUT M-500 NOT TO SCALE

2 INSULATED PIPE HANGER SUPPORT M-500 NOT TO SCALE



SOLENOID VALVE

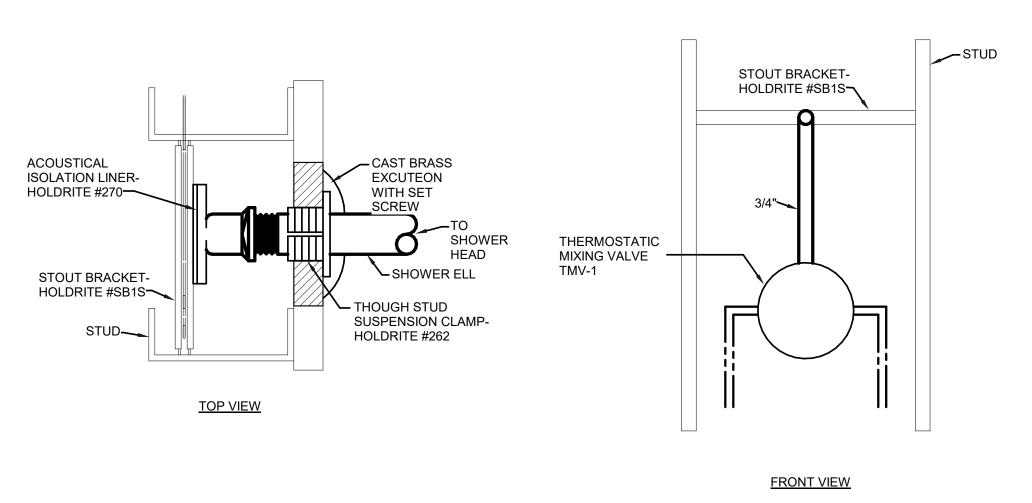
SUPPLY STOPS

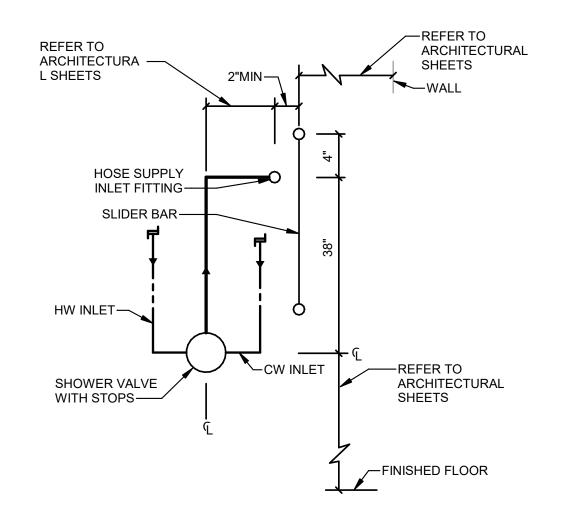
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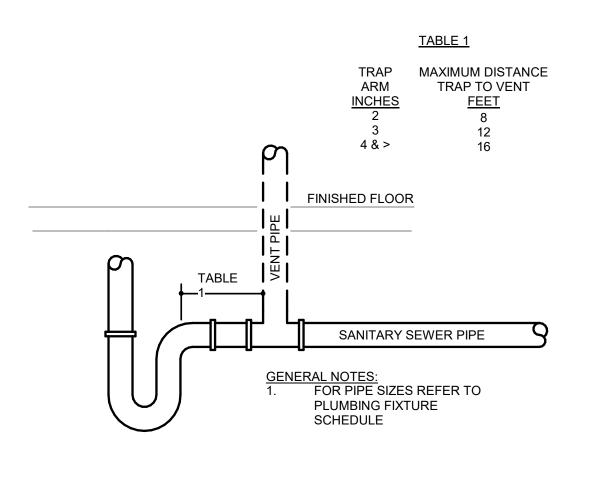
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NOTE: COORDINATE INSTALLATION WITH

DRAIN FITTINGS







-GOOSENECK SPOUT W/ LAMINAR FLOW HEAD

~THERMOSTATIC

MIXING VALVE (TMV-2)

←CONTROL MODULE

-TRANSFORMER

4 SHOWER HEAD BRACING

7 TRAPEZE PIPE SUPPORT

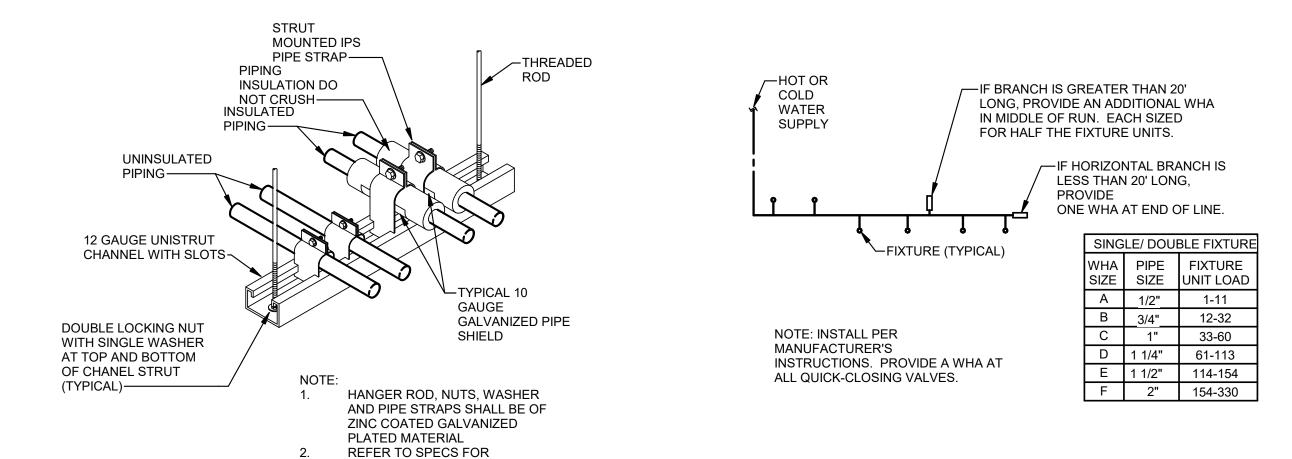
M-500 NOT TO SCALE

M-500 NOT TO SCALE

5 SHOWER VALVE INSTALLATION

M-500 NOT TO SCALE

6 TRAP TO WEIR MAXIMUM DISTANCE M-500 NOT TO SCALE



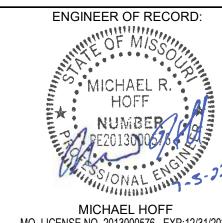
INSULATION.

8	WATER HAMMER ARRESTOR SCHEMATIC
M-500/	NOT TO SCALE

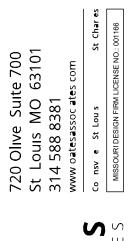
				PLUMBIN	G FIXTUR	E SCHEI	DULE							
DLAN										CONN	ECTION SCH	IEDULE		
PLAN MARK	DESCRIPTION	MANUFACTURER	MODEL	TRIM	DRAIN/TRAP	SUPPLIES	CARRIER	SEAT	HOT WATER	COLD WATER	TEMPERED WATER	SANITARY	VENT	NOTES
EWC-1	WATER COOLER	ELKAY	LZS8L	IN-WALL CARRIER: MLP100. CANE APRON: LKAPREZL	INTEGRAL TRAP	-	BLOCKING AND WALL CARRIER	-	-	0.5"	-	1.5"	1.5"	1,8,9,11,12
FD-1	FLOOR DRAIN: ROUND	JAY R. SMITH	2005-A-02-NB	NICKLE BRASS ,GRATE: ADJUSTABLE, 5" STRAINER HEAD	PVC P-TRAP	-	-	-	-	-	-	2"	1.5"	-
FD-2	FLOOR DRAIN: ROUND	JAY R. SMITH	2005-A-04-NB	NICKLE BRASS ,GRATE: ADJUSTABLE, 5" STRAINER HEAD	PVC P-TRAP	-	-	-	-	-	-	4"	2"	-
FFCO	FINISH FLOOR CLEANOUT	JAY R. SMITH	4021S	BRONZE PLUG, NICKLE BRASS LID	-	-	-	-	-	-	-	SEE PLAN	-	-
LA-1	LAVATORY: WALL HUNG	AMERICAN STANDARD	9024904EC	SLOAN ETF-600, GRID DRAIN	CHROME-PLATED P-TRAP	ANGLE STOP & RISER	BLOCKING AND WALL HANGER	-	-	3/4"	-	2"	2"	1,2,3,5,7,8,9,12
PD-1	POOL DECK DRAIN	STEGMEIER	FRONTIER SDDW	SEE NOTES	DOWN ADAPTER	-	-	-	-	-	-	1.5"	-	13
SD-1	SHOWER DRAIN	JAY R. SMITH	9667-SLG-F-48"	SLOTTED GRATE	PVC P-TRAP	-	-	-	-	-	-	2"	1.5"	-
SH-1	ADA SHOWER	DELTA	T13H-3-3-2	SHOWER MIXING VALVE	SEE PLAN	SHOWER MIXING VALVE	BLOCKING	-	1/2"	1/2"	1/2"	SEE PLAN	SEE PLAN	1,6
UR-1	URINAL: WALL-MOUNTED	AMERICAN STANDARD	6002.001	SLOAN ECOS 186 HW	-	-	BLOCKING, ZURN #Z1221	-	-	3/4"	-	2"	2"	1,8,9,11,12
WC-1	FLOOR MOUNTED WATER CLOSET	AMERICAN STANDARD	MADERA 3043.001	SLOAN ECOS 111	-	-	-	BEMIS #1955CT 047	-	1 1/4"	-	4"	2"	8,9,10

- ALL MANUFACTURERS LISTED ARE BASIS OF DESIGN, SEE SPECIFICATIONS FOR ADDITIONAL MANUFACTURERS.
- REFER TO ARCHITECTURAL DRAWINGS FOR EQUIPMENT OR CONTROLS MOUNTING HEIGHT.
- PROVIDE TRUEBRO HANDI-LAV-GUARD INSULATION KIT. COLOR SHALL BE SELECTED BY THE ARCHITECT. PROVIDE 17 GA. CHROME PLATED BRASS WASTE, TAILPIECE AND P-TRAP. PROVIDE PLATED ESCUTCHEONS AT WALL PENETRATIONS.
- PROVIDE STAINLESS STEEL DRAIN WITH CONICAL STRAINER BASKET AND RUBBER STOPPER.
- PROVIDE STAINLESS STEEL GRID STRAINER.
- PROVIDE THERMOSTATIC MIXING VALVE TMV-1 PER SPECIFICATIONS BOOK AND SET TO 100°F
- PROVIDE THERMOSTATIC MIXING VALVE TMV-2 PER SPECIFICATIONS BOOK AND SET TO 110°F
- ACCESSORIES SHALL BE SAME MANUFACTURER AS FIXTURE / EQUIPMENT UNLESS NOTED OTHERWISE
- INSTALL ACCESSORIES AS RECOMMENDED BY MANUFACTURER FOR ADA COMPLIANCE.
- 10 PROVIDE WITH FLUSH LEVER ON APPROACH SIDE OF TOILET PER ADA REQUIREMENTS.
- PROVIDE CONCEALED ARM STRUCTURAL STEEL CARRIER.
- FIELD COORDINATE/VERIFY FRAMING ROUGH-IN DIMENSIONS WITH ASSOCIATED CONTRACTOR BEFORE ORDERING. PROVIDE SDD90 90° CORNERS AT EACH DRAIN CORNER. PROVIDE SDD-DA DOWN ADAPTER AT EACH SEGMENT. PROVIDE WHITE GRILLE

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**



MO. LICENSE NO. 2013000576 EXP:12/31/2023 RTM MO CERTIFICATE OF AUTHORITY 2014035826





OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN

DEPARTMENT OF ELEMENTARY & SECONDARY EDUCATION

AND CONSTRUCTION

REPAIR SWIMMING POOL

MISSOURI SCHOOL FOR THE BLIND 3815 MAGNOLIA AVENUE ST. LOUIS, MO

PROJECT # E2107-01 2011 FACILITY # 5012011003, 501201104

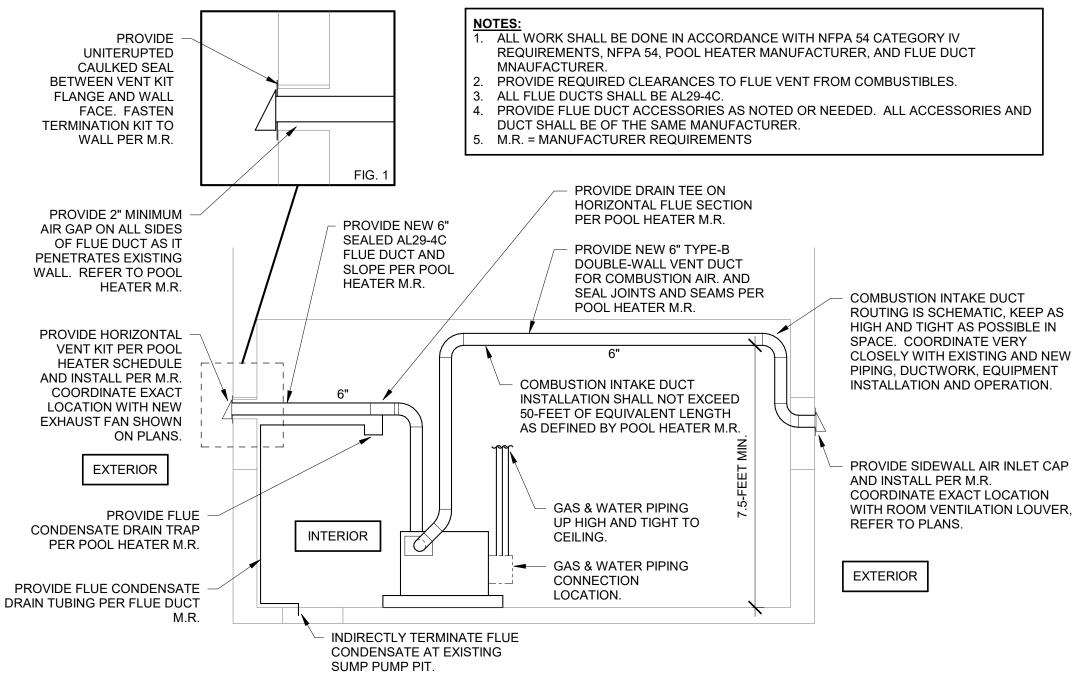
> **REVISION: REVISION: REVISION:** DATE: ISSUE DATE: 07/06/2022

CAD DWG FILE: M-500 DRAWN BY: CHECKED BY: MJB DESIGNED BY: ASK

SHEET TITLE:

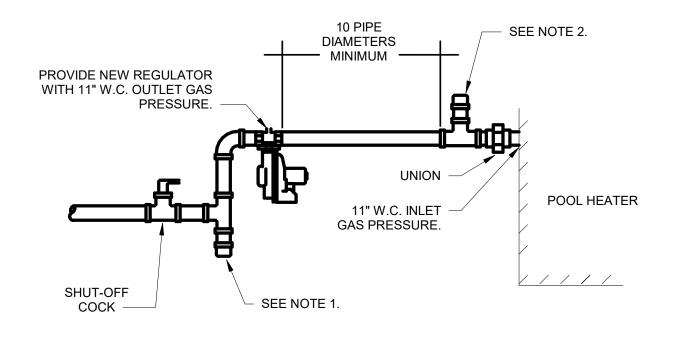
DETAILS AND SCHEDULES-MECHANICAL

SHEET NUMBER:



POOL HEATER DETAIL

M-501/ NOT TO SCALE

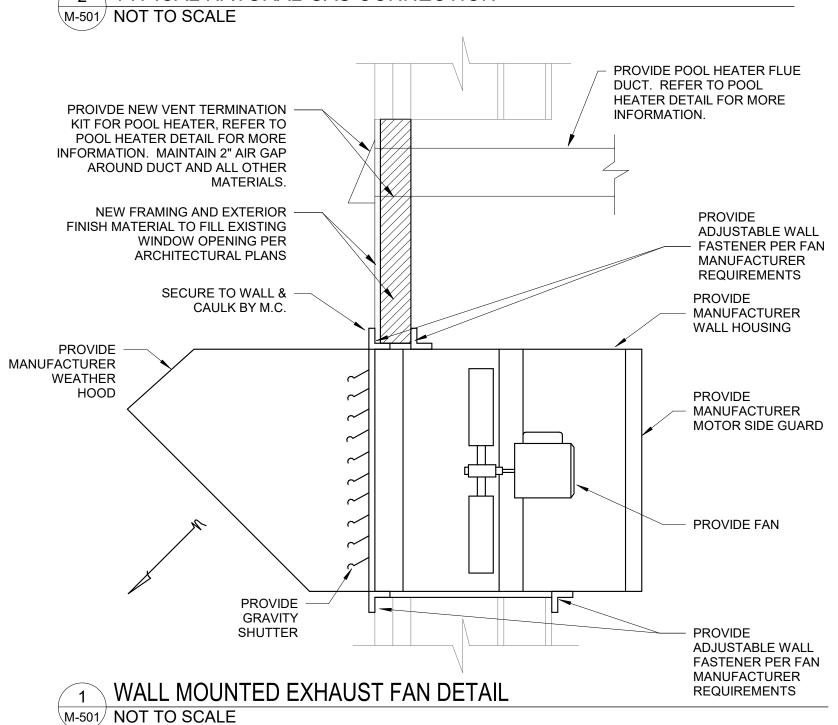


NOTES:

1. A TEE FITTING WITH ONE OPENING CAPPED OR PLUGGED SHALL BE INSTALLED BETWEEN THE MP REGULATOR AND ITS UPSTREAM SHUTOFF VALVE. SUCH TEE FITTING SHALL BE POSITIONED TO ALLOW CONNECTION OF A PRESSURE-MEASURING INSTRUMENT AND TO SERVE AS A SEDIMENT TRAP.

2. A TEE FITTING WITH ONE OPENING CAPPED OR PLUGGED SHALL BE INSTALLED NOT LESS THAN 10 PIPE DIAMETERS DOWNSTREAM OF THE MP REGULATOR OUTLET. SUCH TEE FITTING SHALL BE POSITIONED TO ALLOW CONNECTION OF A PRESSURE-MEASURING INSTRUMENT.

TYPICAL NATURAL GAS CONNECTION



	DUCT HEATER SCHEDULE										
PLAN MARK	#	MANUFACTURER	MODEL	WIDTH	LENGTH	WATTS	VOLTAGE	PHASE	NOTES		
DH	1	GREENHECK	IDHE	8"	8"	4 kW	208	3	1,2,3,4,5		
NOTES:											
*	Al	L MANUFACTURE	RS LISTEI	D ARE B	ASIS OF D	ESIGN, S	SEE SPECIFI	CATIONS	FOR		

- ADDITIONAL MANUFACTURERS.
- DUST TIGHT CONTROL BOX WITH GASKETED DOOR
- ROOM THERMOSTAT PRO T725, REFER TO PLANS FOR LOCATION.
- 80/20 NiCr GRADE A ELEMENT WIRE SLIP-IN
- PROVIDE FOR LINED DUCTWORK. COORDINATE HEATER INSTALLATION AND DUCTWORK LINING WITH MANUFACTURER INSTALLATION REQUIREMENTS.

	FAN SCHEDULE										
	EQUIPI	MENT		FAN			ELECTI	RICAL			
MARK	MANUFACTURER	FACTURER MODEL CFM ESP HP RPM VOLTA		VOLTAGE	PHASE	WATTS	NOTES				
EF-1	GREENHECK	S1-10-428-P	200	0.33 in-wg	2	1650	208	1	78	1,2,3,4,5,6,7,8	

- ALL MANUFACTURERS LISTED ARE BASIS OF DESIGN, SEE SPECIFICATIONS FOR ADDITIONAL
- MANUFACTURERS.
- 1 PROVIDE WITH GRAVITY SHUTTER 2 PROVIDE WITH WALL HOUSING
- PROVIDE WITH MOTOR SIDE GUARD
- PROVIDE WITH EPOXY POWDER COATED TEAO MOTOR
- PROVIDE WITH ALLUMINUM FAN BLADES
- REFER TO CONTROL SEQUENCE ON PLANS AND PROVIDE ALL CONTROL WIRING, RELAYS, DEVICES, ETC AS NEEDED TO PROVIDE A COMPLETE SYSTEM.
- ALL PARTS OF THE FAN THAT COME IN CONTACT WITH THE AIRSTREAM OR THE INTERIOR SIDE OF THE ROOM SHALL BE EPOXY POWDER COATED OR ALUMINUM IN CONSTRUCTION. INCLUDING BUT NOT LIMITED TO THE FAN MOTOR HOUSING, FAN SHAFT, FAN BLADES, FAN AND MOTOR MOUNTS, WALL HOUSING, DAMPER GUARD, DAMPER, ALL OTHER LISTED ACCESSORIES, ETC. ALL WIRING RACEWAYS FACTORY INSTALLED SHALL BE IP68 RATED. REFER TO ELECTRICAL SPECIFICATIONS FOR ALL OTHER ELECTRICAL MATERIAL REQUIREMENTS.
- 8 PROVIDE WITH WEATHERHOOD

LOUVER SCHEDULE											
MARK	MANUFACTURER	MODEL	HEIGHT	WIDTH	SERVICE	CFM	FREE AREA (SF)	VELOCITY (FPM)	NOTES		
LV-1	GREENHECK	EAD-632W	1' - 0"	1' - 6"	SUPPLY	200	0.29	700 FPM			

- ALL MANUFACTURERS LISTED ARE BASIS OF DESIGN, SEE SPECIFICATIONS FOR ADDITIONAL MANUFACTURERS
- PROVIDE ALUMINUM INSECT SCREEN. COLOR SHALL BE AS SELECTED BY ARCHITECT.
- PROVIDE MOTORIZED ACTUATOR AND INTERCONNECT PER PLANS.

	POOL HEATER SCHEDULE											
	EQ	UIPMENT			GAS HE	AT	EL	ECTRIC				
			CAPACITY	INPUT	OUTPUT	EFFICIENCY						
.RK	MANUFACTURER	MODEL	(GAL)	(btu/h)	(btu/h)	(%)	VOLTAGE	PHASE	FLA	NOTES		
1 -1	LOCHINVAR	CP-0502	1.7	500,000	425,000	85	120 V	1	12 A	1,2,3,4,5,6,7		

- ALL MANUFACTURERS LISTED ARE BASIS OF DESIGN, SEE SPECIFICATIONS FOR ADDITIONAL MANUFACTURERS.
- PROVIDE TITANIUM GASKETED PLATE AND FRAME
- EPOXY COATED STEEL WITH STAINLESS STEEL HARDWARE 150 PSI MAXIMUM WORKING PRESSURE.
- PROVIDE LOCHINVAR HORIZONTAL VENT TERMINATION KIT 100141702. PROVIDE LOCHINVAR DIRECT VENT KIT AND DV BOX ADAPTER.
- PROVIDE MERV 4 COMBUSTION INLET AIR FILTER

PROVIDE LOCHINVAR SUPPLY AIR INLET CAP

	PUMP SCHEDULE												
MARK	MANUFACTURER	MODEL	TYPE	HP	RPM	FLOW (GPM)	DISCHARGE SIZE (DIAMETER)	TOTAL HEAD (ft)	FL TYPE	UID MAXIMUM TEMP (°F)	VOLTAGE	PHASE	NOTES
SP-1	ZOELLER	295	SUBMERSIBLE	2	3450	160	3.000	25' - 0"	WASTE	130 °F	208 V	3	1,2,3,4,5,6,7,8
SP-2	ZOELLER	295	SUBMERSIBLE	2	3450	160	3.000	25' - 0"	WASTE	130 °F	208 V	3	1,2,3,4,5,6,7,8
NOT	ES:												
*	* ALL MANUFACTURERS LISTED ARE BASIS OF DESIGN, SEE SPECIFICATIONS FOR ADDITIONAL MANUFACTURERS.												
1 PROVIDE PUMP CONTROLLER EQUAL TO: ZOELLER													
2	PUMP CONT	ROLLER SI	HALL HAVE NEMA	4X EN	CLOSUR	E							
3	PROVIDE WI	TH BRONZ	E IMPELLER										

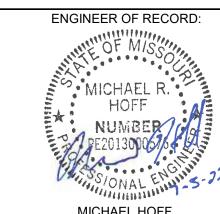
- PROVIDE WITH STAINLESS STEEL HARDWARE
- PROVIDE WITH STAINLESS STEEL SHAFT
- PROVIDE WITH CERAMIC MECHANICAL SEALS
- PROVIDE WITH CAST-IRON HOUSING WITH EPOXY POWDER COATING.
- COORDINATE ELECTRICAL REQUIREMENTS WITH EXISTING CIRCUITRY AND ELECTRICAL CONTRACTOR.

	AIR TERMINAL SCHEDULE													
MARK	MANUFACTURER	MODEL	DUCT CONNECTION SIZE	SERVICE	FRAME	FINISH	DAMPER	NC (MAX)	THROW (FT)	MAXIMUM ▲P (IN WG)	NOTES			
S-1	KRUEGER	880	10"X10" SUPPLY ALLUMINUM / DUCT WHITE Yes 30 5 0.04 in-wg 1,2											

ALL MANUFACTURERS LISTED ARE BASIS OF DESIGN, SEE SPECIFICATIONS FOR ADDITIONAL MANUFACTURERS. FASTENERS SHALL BE MADE OF ALUMINUM.

PROVIDE WITH OBD

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**



MICHAEL HOFF MO. LICENSE NO. 2013000576 EXP:12/31/2023 RTM MO CERTIFICATE OF AUTHORITY 2014035826





OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF ELEMENTARY & SECONDARY EDUCATION

REPAIR SWIMMING POOL

MISSOURI SCHOOL FOR THE BLIND 3815 MAGNOLIA AVENUE

PROJECT # E2107-01 2011 SITE# FACILITY # 5012011003, 501201104

ST. LOUIS, MO

REVISION: REVISION: REVISION: DATE:

CAD DWG FILE: M-501 DRAWN BY: CHECKED BY: MJB DESIGNED BY: ASK

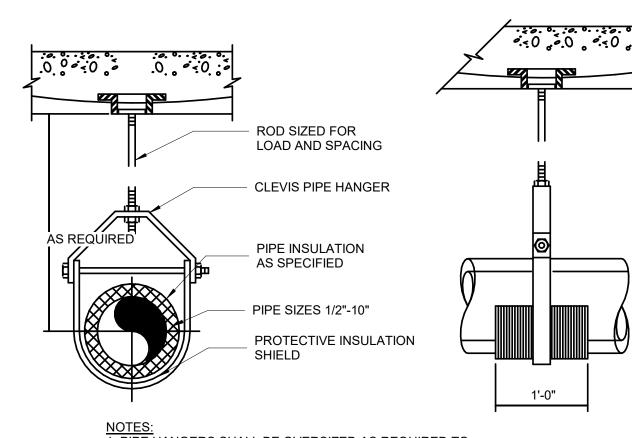
ISSUE DATE: 07/06/2022

SHEET TITLE:

DETAILS AND SCHEDULES -MECHANICAL

SHEET NUMBER:

39 OF 45 SHEETS 07/06/2022



1. PIPE HANGERS SHALL BE OVERSIZED AS REQUIRED TO ACCOMODATE. THICKNESS OF INSULATION SPECIFIED. HANGAR SHALL NOT COME INTO CONTACT WITH THE INSULATION DIRECTLY, EITHER AT THE VERTICAL YOKE OR AT THE POINT OF SUPPORT. FOR REQUIREMENTS ON INSULATION SHIELD USED WITH PIPE HANGERS, SEE SPECIFICATIONS.

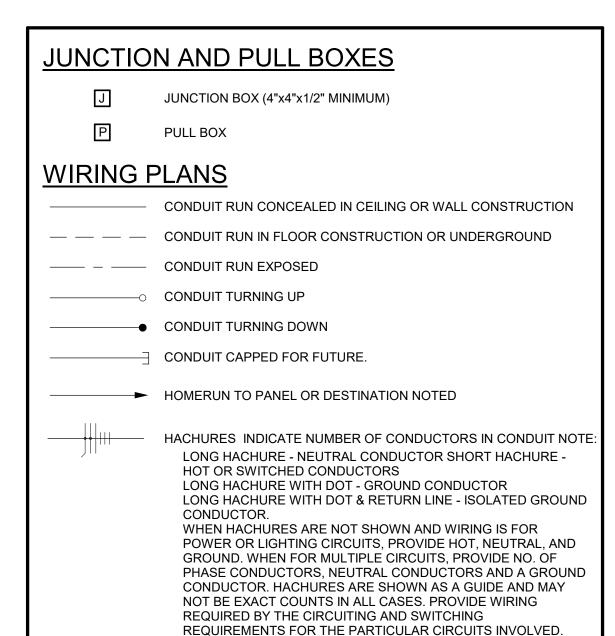
4 INSULATED PIPE HANGAR

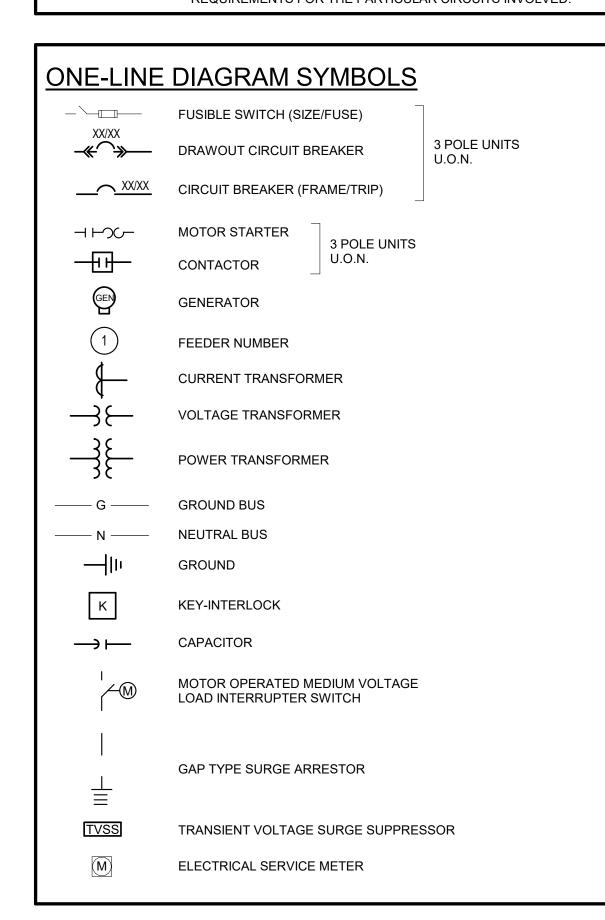
M-501 NOT TO SCALE

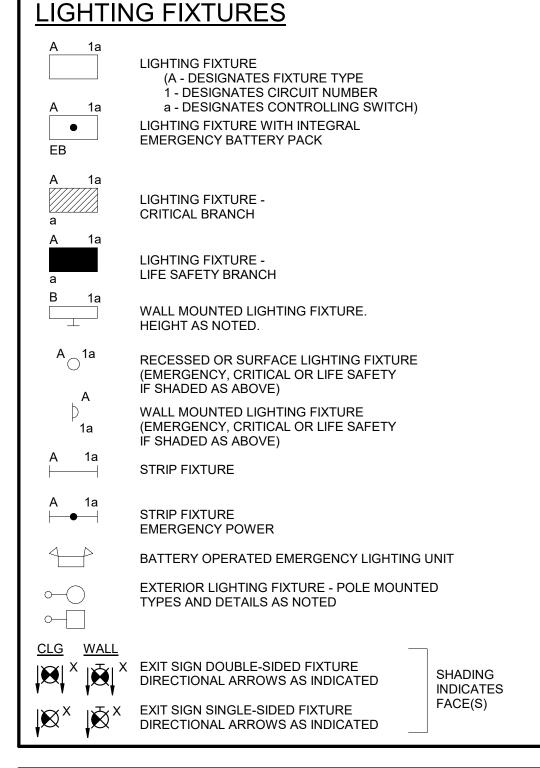
ELECTRICAL LEGEND AND ABBREVIATIONS (SEE SPECIFICATIONS & SCHEDULES)

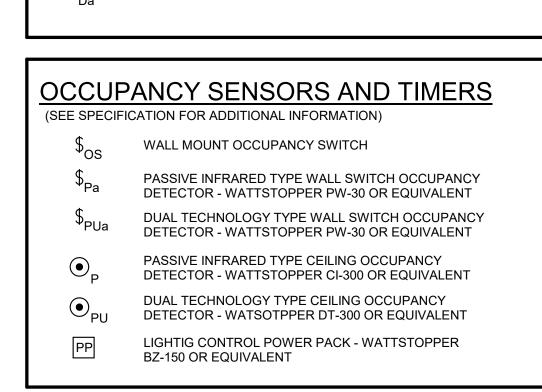
1. NOT ALL SYMBOLS AND ABBREVIATIONS ARE USED ON THESE PLANS.

. ALL MOUNTING HEIGHTS ARE TO CENTERLINE OF DEVICES AND EQUIPMENT UNLESS NOTED OTHERWISE 3. IN GENERAL, SYMBOLS SHOWN WITH LIGHT LINES DENOTE EXISTING WORK. SYMBOLS SHOWN WITH HEAVY LINES DENOTE PROPOSED WORK.







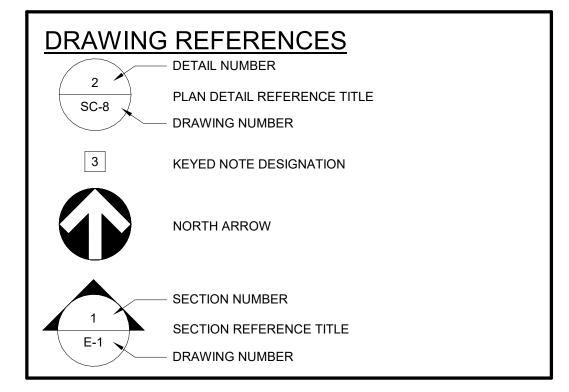


SWITCHES - LIGHTING CONTROL

SWITCHES - SINGLE POLE, 2 POLE, 3-WAY, 4-WAY

TYPICAL MOUNTING HEIGHT - 48" AFF

DIMMER SWITCH



POWER EQUIPMENT MOTOR - SEE EQUIPMENT DATA SCHEDULE FOR HORSEPOWER STARTERS (MANUAL, MAGNETIC & COMB. MAGNETIC PANELBOARD SEQUENCE NUMBER L - LIGHTING P - POWER E - EMERGENCY/EQUIPMENT BRANCH LS - LIFE SAFETY BRANCH C - CRITICAL BRANCH X - X-RAY - VOLTAGE H - 480V L - 240V OR 208/120V FLOOR **TRANSFORMER** DISCONNECT SWITCH. FUSED OR UNFUSED AS NOTED **ELECTRICAL SERVICE METER**

TYPICAL M	OUNTING HEIGHT - 18" AFF
Ф	SINGLE RECEPTACLE OUTLET
Ф	DUPLEX RECEPTACLE OUTLET
Ф ^{GFCI}	DUPLEX RECEPTACLE OUTLET - GROUND FAULT TYPE
Ф ^{USB}	COMBINATION DUPLEX RECEPTACLE AND USB OUTLET
Ф ^{IG}	DUPLEX RECEPTACLE OUTLET WITH ISOLATED GROUND
	DOUBLE DUPLEX RECEPTACLE OUTLET
Ф	DUPLEX RECEPTACLE OUTLET MOUNTED +8" ABOVE COUNTER
Ğ GFCI	DUPLEX RECEPTACLE OUTLET MOUNTED +8" ABOVE COUNTER - GROUND FAULT TYPE
囫⊚⊕	FLOOR BOX - SYMBOL DESIGNATES TYPE OF SERVICE
_	

SPECIAL PURPOSE OUTLET AS NOTED

WIRING DEVICES, RECEPTACLES - MISC.

ABBREVIATIONS

- ACCESS CONTROL SYSTEM ABOVE FINISHED FLOOR

AUTOMATIC TRANSFER SWITCH

B.C. CONDUIT

CAM CAMERA

> СВ CIRCUIT BREAKER

CCTV CLOSED CIRCUIT TELEVISION

CCW COUNTER CLOCKWISE

DCU DISTRIBUTED CONTROLLER UNIT

DN

DISTRIBUTION PANEL

DWG DRAWING

E.C. ELECTRICAL CONTRACTOR

ELECTRICAL METALLIC TUBING

EXISTING RELOCATED

FΜ F/O MODEM

F/O FIBER OPTIC

GF **GROUND FAULT**

INPUT/OUTPUT I/O

LOCAL AREA NETWORK

LIGHTING PANEL

METAL CLAD

- MOTOR CONTROL PANEL

MANHOLE EMPTY CONDUIT

- PUBLIC ADDRESS

PASSIVE INFRA RED

POLYVINYL CHLORIDE CONDUIT

RECESSED

RAINTIGHT

- SHIELDED (AS IN CABLE)

SWBD SWITCHBOARD

TYP. TYPICAL

UNG UNGROUNDED

VFD VARIABLE FREQUENCY DRIVE

VAPORTIGHT

WATERTIGHT

- EXPLOSION PROOF WEATHER-PROOF

BELOW CEILING

CC CONTROL CONTACTOR

CLOCKWISE

CW

DOWN

DT DUSTTIGHT

ELECTRIC OR ELECTRICAL

ETR EXISTING TO REMAIN

ELECTRIC WATER COOLER

FIRE ALARM

FUSIBLE SWITCH

G.C. GENERAL CONTRACTOR

GFCI GROUND FAULT CIRCUIT INTERRUPTER

GRD GROUND

GRS GALVANIZED RIGID STEEL

HH HANDHOLE

INTERIM LIFE SAFETY MEASURES

INTERMEDIATE METAL CONDUIT

MATV MASTER ANTENNA TELEVISION

MOTOR CONTROL CENTER

MCP

MT

NURSE CALL

NIGHT LIGHT

PΑ

PORTABLE INTERFACE

P.I.R.

POWER PANEL

PVC

RF - RADIO FREQUENCY

RGS RIGID GALVANISED STEEL

TELEPHONE

UNINTERUPTIBLE POWER SUPPLY

U.O.N. UNLESS OTHERWISE NOTED

GENERAL NOTES

- A. THE ELECTRICAL DRAWINGS HAVE BEEN PREPARED UTILIZING EXISTING DRAWINGS AND BUILDING OBSERVATIONS AND MAY NOT SHOW ALL CONDITIONS. CONTRACTOR SHALL VISIT THE BUILDING PRIOR TO BID SUBMISSION AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS. CONTRACTOR WILL NOT BE ALLOWED ADDITIONAL FUNDS OR TIME DUE TO THE CONTRACTOR'S FAILURE TO BECOME FAMILIAR WITH ALL EXISTING CONDITIONS.
- ACCEPTANCE OF CONTRACT MEANS INSTALLER ACCEPTS EXISTING CONDITIONS.
- COORDINATE INSTALLATION WITH EXISTING CONDITIONS. FIELD VERIFY
- **EXISTING CONDITIONS.** CONTRACTOR SHALL SCHEDULE ALL ELECTRICAL SYSTEM POWER OUTAGES WITH THE OWNER'S REPRESENTATIVE AT LEAST 14 CALENDAR DAYS IN ADVANCE OF A SHUTDOWN. DOWNTIME ON BRANCH CIRCUIT PANELBOARDS SWITCHBOARDS, DISTRIBUTION PANELBOARDS, MOTOR CONTROL CENTERS, ETC., WHICH SERVE LOADS OUTSIDE OF THE CONSTRUCTION AREAS SHALL BE LIMITED TO A (1) HOUR (MAXIMUM) OUTAGE. MORE THAN (1) SCHEDULED OUTAGE MAY OCCUR ON EACH PIECE OF EQUIPMENT, BUT THE MAXIMUM

OUTAGE TIME MUST BE MAINTAINED.

- ALL PENETRATIONS THROUGH CONCRETE OR MASONRY WALLS AND FLOOR SLABS SHALL BE CORE DRILLED. AFTER CONDUITS HAVE BEEN INSTALLED, SEAL WALL AROUND CONDUIT TO MAINTAIN 2-HOUR FIRE RATING USING UL LISTED METHODS AND MATERIALS. EXTERIOR WALLS SHALL BE SEALED
- WATERTIGHT. CONTRACTOR SHALL UPDATE EXISTING PANELBOARD CIRCUIT DIRECTORIES TO REFLECT ALL CHANGES MADE TO EXISTING PANELBOARDS DURING THIS
- WHEN INSTALLING CIRCUIT BREAKERS IN EXISTING PANELBOARDS. MATCH
- EXISTING CIRCUIT BREAKER TYPES AND INTERRUPTING RATINGS. CONTRACTOR SHALL REFER TO "ARCHITECTURAL REFLECTED CEILING PLANS" FOR PLACEMENT OF ALL LIGHTING FIXTURES, CEILING SPEAKERS, AND SMOKE DETECTORS. COORDINATE INSTALLATION WITH THE WORK OF OTHER TRADES THAT AFFECT THE PLACEMENT OF CEILING MOUNTED EQUIPMENT. PROVIDE ELECTRICAL METALLIC TUBING (EMT) SLEEVES WITH INSULATED BUSHINGS ON EACH END FOR ALL TELEPHONE, DATA, DICTATION, NURSE CALL,

TV ANTENNA. FIRE ALARM. AND PUBLIC ADDRESS SYSTEM CABLES PASSING

THROUGH WALLS AND FLOORS. SEAL AROUND CABLES TO MAINTAIN FIRE

- RATING OF WALL OR FLOOR. CONTRACTOR SHALL PROVIDE BARRIERS IN BOXES, INCLUDING SWITCHBOXES. TO PROVIDE SEPARATION OF LIFE SAFETY AND CRITICAL BRANCH CIRCUIT
- WIRING FROM ALL OTHER WIRING AND EQUIPMENT. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING EXISTING DIVISION 26 RELATED ITEMS TO REMAIN IN PLACE WITH THE INSTALLATION OF GENERAL CONSTRUCTION WORK, DUCTWORK, PIPING, ETC. ALL ATTEMPTS SHALL BE MADE PRIOR TO THE START OF CONSTRUCTION TO AVOID THE REMOVAL AND RELOCATION OF EXISTING DIVISION 26 RELATED ITEMS WHICH
- ARE NOT AFFECTED BY WORK OF THIS CONTRACT. DO NOT ROUTE CONDUITS CONCEALED IN ABOVE GRADE CONCRETE SLABS. CONDUITS SHALL BE ROUTED EXPOSED TO THE UNDERSIDE OF THE SLAB AND STUBBED UP THROUGH THE SLAB TO THE EQUIPMENT BEING SERVED.
- CONTRACTOR SHALL PROVIDE A SET OF HAND MARKED RECORD DRAWINGS TO THE ENGINEER AT THE COMPLETION OF THE PROJECT INDICATING ACTUAL INSTALLED CONDITIONS. THE HAND MARKING SHALL BE CLEARLY LEGIBLE AND SHALL BE MARKED IN RED. MARKS SHALL INCLUDE ITEMS SUCH AS CIRCUITING CHANGES, DEVICE AND EQUIPMENT LOCATION CHANGES, MAJOR FEEDER AND CABLING ROUTING CHANGES, ETC.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL DEVICE LOCATIONS (RECEPTACLES, VOICE/DATA OUTLETS, SWITCHES, ETC.) WITH ARCHITECTURAL ELEVATIONS AND FURNITURE SUBMITTALS PRIOR TO ROUGH-IN TO ENSURE THAT DEVICES ARE NOT LOCATED BEHIND CABINETS OR FURNITURE. FAILURE TO COORDINATE SHALL NOT RESULT IN ADDITIONAL COST TO THE PROJECT, AND THE DEVICE(S) SHALL BE RELOCATED AT THE
- CONTRACTORS EXPENSE. ALL RECESSED AND SURFACE MOUNTED LIGHT FIXTURES SHALL BE POSITIVELY ATTACHED TO THE BUILDING STRUCTURE WITH TWO (2) #12 GAUGE SUPPORT WIRES PER FIXTURE. THE WIRE AND ATTACHMENTS SHALL BE CAPABLE OF SUPPORTING THE FULL WEIGHT OF THE FIXTURE. PROVIDE ALL NECESSARY COMPONENTS AND MOUNTING HARDWARE FOR A COMPLETE INSTALLATION.
- PENDANT MOUNTED LIGHT FIXTURES SHALL BE SUPPORTED BY A PRE-MANUFACTURED CABLE HANGER SYSTEM. A TYPICAL SUPPORT SHALL INCLUDE A CEILING CONNECTOR (ANCHOR, EYEBOLT, ETC.), A STAINLESS STEEL 3/32 INCH CABLE (LENGTH AS REQUIRED), AND A FIXTURE CONNECTOR FLANGE ASSEMBLY. THE FIXTURE CONNECTOR ASSEMBLY SHALL BE SECURED TO THE FIXTURE HOUSING WITH TWO SCREWS. A TYPICAL 1' X 4' LIGHT FIXTURE SHALL REQUIRE TWO SUPPORTS, ONE AT EACH END OF THE FIXTURE. THE CABLE HANGER SYSTEM SHALL BE MANUFACTURED BY THE LIGHT FIXTURE MANUFACTURER THE CABLE ASSEMBLY WILL BE USED FOR OR SIMILAR TO THE GRIP-LOCK SYSTEMS LIGHTING AIR CRAFT CABLE HANGER SYSTEM
- (GRIPLOCKSYSTEMS.COM). Q. WHERE ARCHITECTURAL DRAWINGS INDICATE EXISTING CEILINGS ARE TO BE RAISED. THE CONTRACTOR SHALL VISIT THE SITE AND IDENTIFY FEEDERS. WIRING, ELECTRICAL EQUIPMENT, SYSTEMS WIRING AND EQUIPMENT, ETC. ABOVE THE CEILING THAT REQUIRE RELOCATION AND SHALL INCLUDE THE COST OF RELOCATION IN THE BID. FAILURE TO INCLUDE THIS COST IN THE BID
- CONTRACTOR SHALL LOCATE ALL EXISTING UNDERGROUND UTILITIES PRIOR TO THE START OF EXCAVATION. DAMAGE TO EXISTING UNDERGROUND UTILITIES RESULTING FROM A FAILURE TO LOCATE UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER. WHERE CIRCUIT NUMBERS ONLY ARE SHOWN ON THE DRAWINGS, THE

SHALL NOT RESULT IN ADDITIONAL COST TO THE OWNER.

OPPOSITE SIDES OF THE SAME WALL "BACK-TO-BACK".

SATISFY THIS REQUIREMENT.

- CONTRACTOR SHALL PROVIDE CONDUIT AND CONDUCTORS AND SHALL MAKE FINAL CONNECTIONS FOR A COMPLETE INSTALLATION. PROVIDE A MINIMUM OF 6 INCHES OF HORIZONTAL OFFSET BETWEEN RECEPTACLES ON OPPOSITE SIDES OF THE SAME WALL TO MINIMIZE SOUND TRANSMISSION THROUGH WALLS. DO NOT INSTALL RECEPTACLES ON
- PROVIDE #10 CONDUCTORS FOR ALL 120V, 20A CIRCUITS EXCEEDING 75'-0" IN LENGTH. PROVIDE #8 CONDUCTORS FOR ALL 120V, 20A CIRCUITS EXCEEDING 150'-0" IN LENGTH. V. ALL RECEPTACLES IN ALL ROOMS ACCESSIBLE TO CHILDREN, SHALL BE
- TAMPER RESISTANT TYPE. W. PROVIDE FIRE CAULKING AT ALL RECESSED ELECTRICAL DEVICES INSTALLED IN FIRE RATED ASSEMBLIES. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF FIRE RATED ASSEMBLIES.

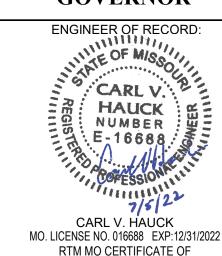
PROVIDE A SEPARATE INSULATED NEUTRAL CONDUCTOR FOR EACH

UNGROUNDED CONDUCTOR IN A MULTI-WIRE BRANCH CIRCUIT SERVING LINE-

TO-NEUTRAL LOADS PER NEC ARTICLE 210.4(B). DO NOT USE HANDLE TIES TO

	ELECTRICAL SHEET LIST										
Sheet											
Number	Sheet Name										
E-001	LEGEND, SYMBOLS, & NOTES - ELEC										
E-100	OVERALL PLAN - BASEMENT										
E-200	ENLARGED POOL PLANS - ELECTRICAL										
E-201	LOCKER ROOM PLANS- ELECTRICAL										
E-600	ELECTRICAL SCHEDULES										
E-601	PANELBOARD SCHEDULES										

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**



AUTHORITY 2014035826



OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF ELEMENTARY & SECONDARY EDUCATION

REPAIR SWIMMING POOL

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ST. LOUIS, MO

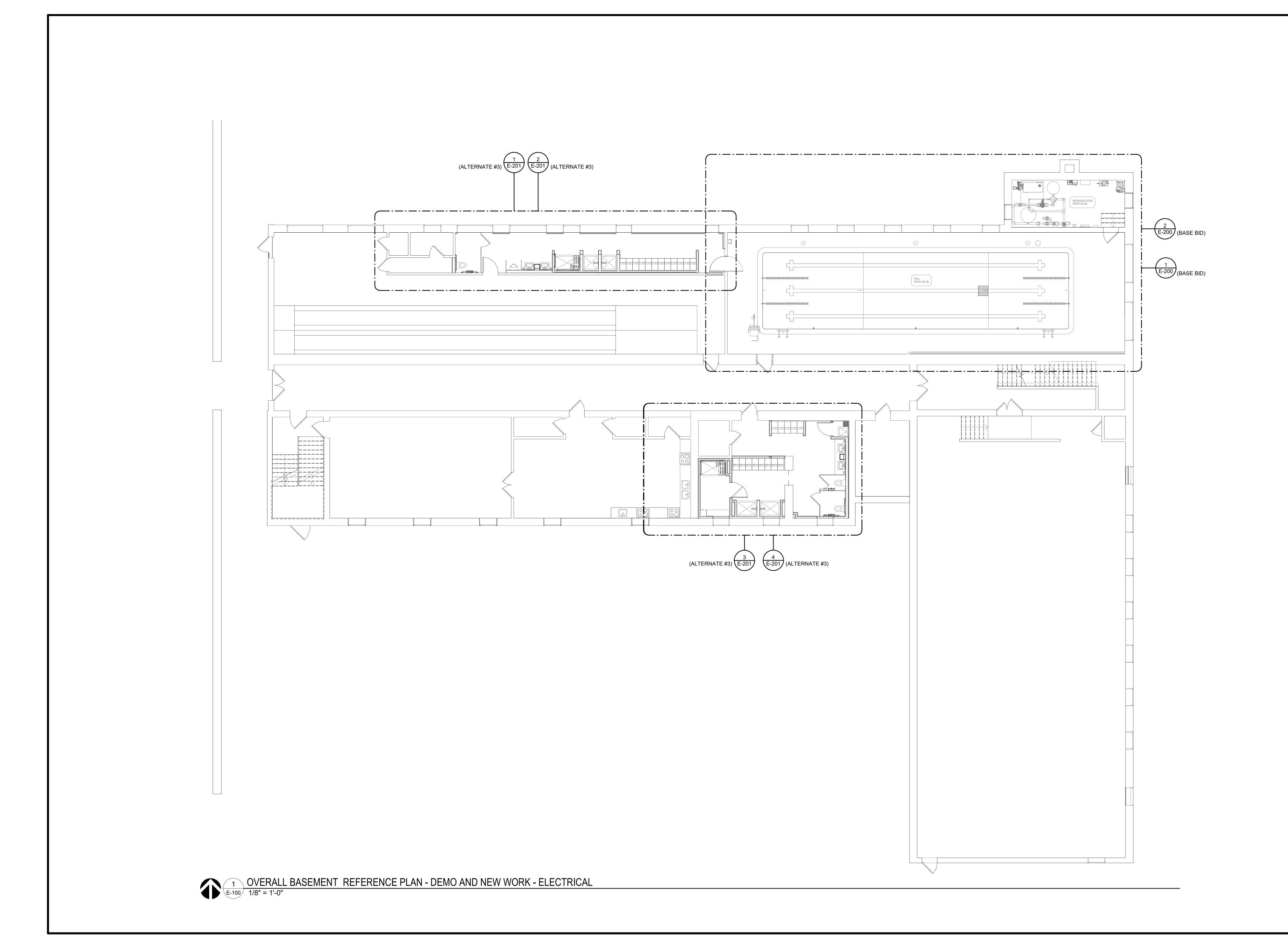
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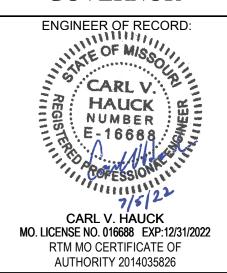
> CAD DWG FILE: E-001 DRAWN BY: MC

CHECKED BY: CH DESIGNED BY: MC SHEET TITLE: LEGEND, SYMBOLS, &

NOTES - ELEC

SHEET NUMBER:





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co nsv e st Lous st Chares



ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT, DESIGN
AND CONSTRUCTION

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REPAIR SWIMMING POOL

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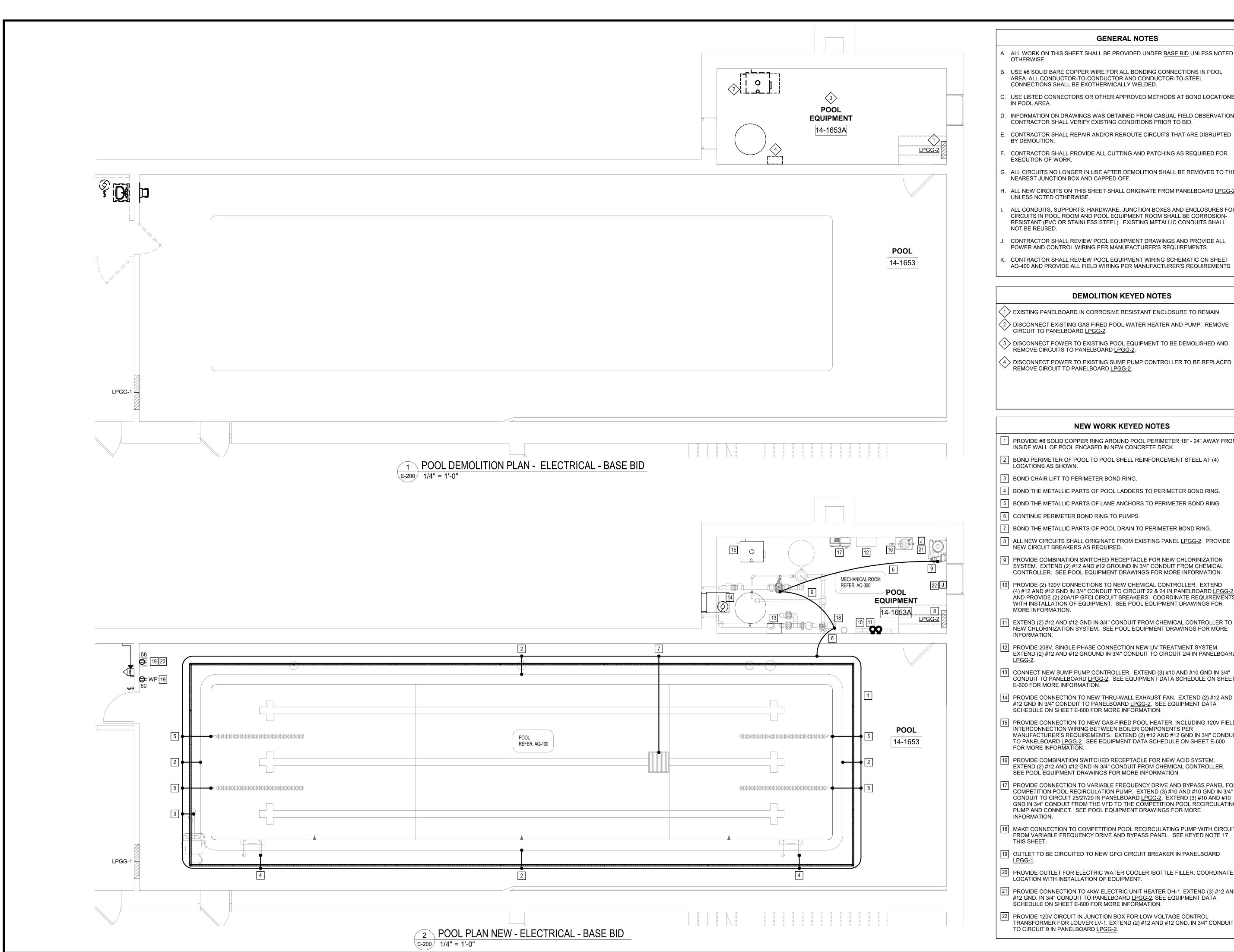
CAD DWG FILE: <u>E-100</u>
DRAWN BY: <u>MC</u>
CHECKED BY: <u>CH</u>
DESIGNED BY: <u>MC</u>

SHEET TITLE:

OVERALL PLAN
- BASEMENT

SHEET NUMBER:

E-100



GENERAL NOTES

- A. ALL WORK ON THIS SHEET SHALL BE PROVIDED UNDER BASE BID UNLESS NOTED
- USE #8 SOLID BARE COPPER WIRE FOR ALL BONDING CONNECTIONS IN POOL AREA. ALL CONDUCTOR-TO-CONDUCTOR AND CONDUCTOR-TO-STEEL CONNECTIONS SHALL BE EXOTHERMICALLY WELDED.
- C. USE LISTED CONNECTORS OR OTHER APPROVED METHODS AT BOND LOCATIONS IN POOL AREA.
- D. INFORMATION ON DRAWINGS WAS OBTAINED FROM CASUAL FIELD OBSERVATION.
- CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO BID.
- . CONTRACTOR SHALL PROVIDE ALL CUTTING AND PATCHING AS REQUIRED FOR
- EXECUTION OF WORK. G. ALL CIRCUITS NO LONGER IN USE AFTER DEMOLITION SHALL BE REMOVED TO THE
- H. ALL NEW CIRCUITS ON THIS SHEET SHALL ORIGINATE FROM PANELBOARD <u>LPGG-2</u> UNLESS NOTED OTHERWISE.
- ALL CONDUITS, SUPPORTS, HARDWARE, JUNCTION BOXES AND ENCLOSURES FOR CIRCUITS IN POOL ROOM AND POOL EQUIPMENT ROOM SHALL BE CORROSION-RESISTANT (PVC OR STAINLESS STEEL). EXISTING METALLIC CONDUITS SHALL NOT BE REUSED.
- CONTRACTOR SHALL REVIEW POOL EQUIPMENT DRAWINGS AND PROVIDE ALL POWER AND CONTROL WIRING PER MANUFACTURER'S REQUIREMENTS.
- K. CONTRACTOR SHALL REVIEW POOL EQUIPMENT WIRING SCHEMATIC ON SHEET AQ-400 AND PROVIDE ALL FIELD WIRING PER MANUFACTURER'S REQUIREMENTS

DEMOLITION KEYED NOTES

- (1) EXISTING PANELBOARD IN CORROSIVE RESISTANT ENCLOSURE TO REMAIN
- (2) DISCONNECT EXISTING GAS FIRED POOL WATER HEATER AND PUMP. REMOVE CIRCUIT TO PANELBOARD <u>LPGG-2</u>.
- DISCONNECT POWER TO EXISTING POOL EQUIPMENT TO BE DEMOLISHED AND REMOVE CIRCUITS TO PANELBOARD <u>LPGG-2</u>.
- disconnect power to existing sump pump controller to be replaced. Remove circuit to panelboard <u>LPGG-2</u>.

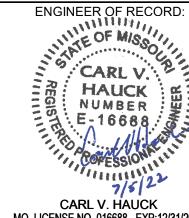
NEW WORK KEYED NOTES

- 1 PROVIDE #8 SOLID COPPER RING AROUND POOL PERIMETER 18" 24" AWAY FROM INSIDE WALL OF POOL ENCASED IN NEW CONCRETE DECK.
- 2 BOND PERIMETER OF POOL TO POOL SHELL REINFORCEMENT STEEL AT (4) LOCATIONS AS SHOWN.
- 3 BOND CHAIR LIFT TO PERIMETER BOND RING.
- 4 BOND THE METALLIC PARTS OF POOL LADDERS TO PERIMETER BOND RING.
- 5 BOND THE METALLIC PARTS OF LANE ANCHORS TO PERIMETER BOND RING.
- 6 CONTINUE PERIMETER BOND RING TO PUMPS.
- 7 BOND THE METALLIC PARTS OF POOL DRAIN TO PERIMETER BOND RING.
- 8 ALL NEW CIRCUITS SHALL ORIGINATE FROM EXISTING PANEL <u>LPGG-2</u>. PROVIDE NEW CIRCUIT BREAKERS AS REQUIRED.
- 9 PROVIDE COMBINATION SWITCHED RECEPTACLE FOR NEW CHLORINIZATION SYSTEM. EXTEND (2) #12 AND #12 GROUND IN 3/4" CONDUIT FROM CHEMICAL
- CONTROLLER. SEÈ POOL EQUIPMENT DRAWINGS FOR MORE INFORMATION. 10 PROVIDE (2) 120V CONNECTIONS TO NEW CHEMICAL CONTROLLER. EXTEND
- (4) #12 AND #12 GND IN 3/4" CONDUIT TO CIRCUIT 22 & 24 IN PANELBOARD <u>LPGG-2</u> AND PROVIDE (2) 20A/1P GFCI CIRCUIT BREAKERS. COORDINATE REQUIREMENTS WITH INSTALLATION OF EQUIPMENT. SEE POOL EQUIPMENT DRAWINGS FOR MORE INFORMATION.
- 11 EXTEND (2) #12 AND #12 GND IN 3/4" CONDUIT FROM CHEMICAL CONTROLLER TO NEW CHLORINIZATION SYSTEM. SEE POOL EQUIPMENT DRAWINGS FOR MORE
- 12 PROVIDE 208V, SINGLE-PHASE CONNECTION NEW UV TREATMENT SYSTEM. EXTEND (2) #12 AND #12 GROUND IN 3/4" CONDUIT TO CIRCUIT 2/4 IN PANELBOARD
- [13] CONNECT NEW SUMP PUMP CONTROLLER. EXTEND (3) #10 AND #10 GND IN 3/4" CONDUIT TO PANELBOARD <u>LPGG-2</u>. SEE EQUIPMENT DATA SCHEDULE ON SHEET E-600 FOR MORE INFORMATION.
- PROVIDE CONNECTION TO NEW THRU-WALL EXHAUST FAN. EXTEND (2) #12 AND #12 GND IN 3/4" CONDUIT TO PANELBOARD LPGG-2. SEE EQUIPMENT DATA SCHEDULE ON SHEET E-600 FOR MORE INFORMATION.
- 15 PROVIDE CONNECTION TO NEW GAS-FIRED POOL HEATER, INCLUDING 120V FIELD INTERCONNECTION WIRING BETWEEN BOILER COMPONENTS PER MANUFACTURER'S REQUIREMENTS. EXTEND (2) #12 AND #12 GND IN 3/4" CONDUIT TO PANELBOARD <u>LPGG-2</u>. SEE EQUIPMENT DATA SCHEDULE ON SHEET E-600 FOR MORE INFORMATION.
- 16 PROVIDE COMBINATION SWITCHED RECEPTACLE FOR NEW ACID SYSTEM. EXTEND (2) #12 AND #12 GND IN 3/4" CONDUIT FROM CHEMICAL CONTROLLER. SEE POOL EQUIPMENT DRAWINGS FOR MORE INFORMATION.

INFORMATION.

- 17 PROVIDE CONNECTION TO VARIABLE FREQUENCY DRIVE AND BYPASS PANEL FOR COMPETITION POOL RECIRCULATION PUMP. EXTEND (3) #10 AND #10 GND IN 3/4" CONDUIT TO CIRCUIT 25/27/29 IN PANELBOARD LPGG-2. EXTEND (3) #10 AND #10 GND IN 3/4" CONDUIT FROM THE VFD TO THE COMPETITION POOL RECIRCULATING PUMP AND CONNECT. SEE POOL EQUIPMENT DRAWINGS FOR MORE
- 18 MAKE CONNECTION TO COMPETITION POOL RECIRCULATING PUMP WITH CIRCUIT FROM VARIABLE FREQUENCY DRIVE AND BYPASS PANEL. SEE KEYED NOTE 17
- 19 OUTLET TO BE CIRCUITED TO NEW GFCI CIRCUIT BREAKER IN PANELBOARD
- 20 PROVIDE OUTLET FOR ELECTRIC WATER COOLER /BOTTLE FILLER. COORDINATE LOCATION WITH INSTALLATION OF EQUIPMENT.
- 21 PROVIDE CONNECTION TO 4KW ELECTRIC UNIT HEATER DH-1. EXTEND (3) #12 AND #12 GND. IN 3/4" CONDUIT TO PANELBOARD <u>LPGG-2</u>. SEE EQUIPMENT DATA SCHEDULE ON SHEET E-600 FOR MORE INFORMATION.
- 22 PROVIDE 120V CIRCUIT IN JUNCTION BOX FOR LOW VOLTAGE CONTROL TRANSFORMER FOR LOUVER LV-1. EXTEND (2) #12 AND #12 GND. IN 3/4" CONDUIT TO CIRCUIT 9 IN PANELBOARD LPGG-2.

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**



MO. LICENSE NO. 016688 EXP:12/31/2022 RTM MO CERTIFICATE OF AUTHORITY 2014035826

OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF ELEMENTARY & SECONDARY EDUCATION

REPAIR SWIMMING POOL

MISSOURI SCHOOL FOR THE BLIND 3815 MAGNOLIA AVENUE

PROJECT # E2107-01 2011 FACILITY # 5012011003, 501201104

ST. LOUIS, MO

REVISION: REVISION: DATE **REVISION:** DATE:

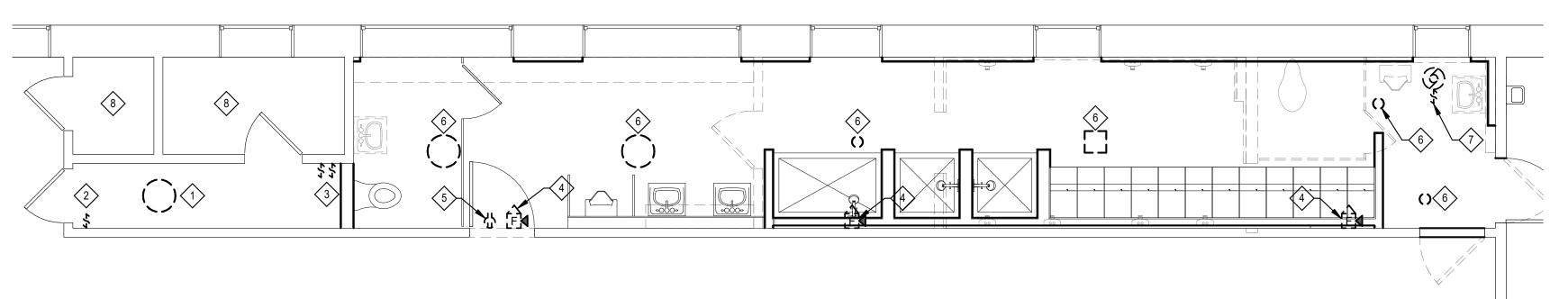
CAD DWG FILE: <u>E-200</u> DRAWN BY: CHECKED BY: CH DESIGNED BY: MC

ISSUE DATE: 07/06/2022

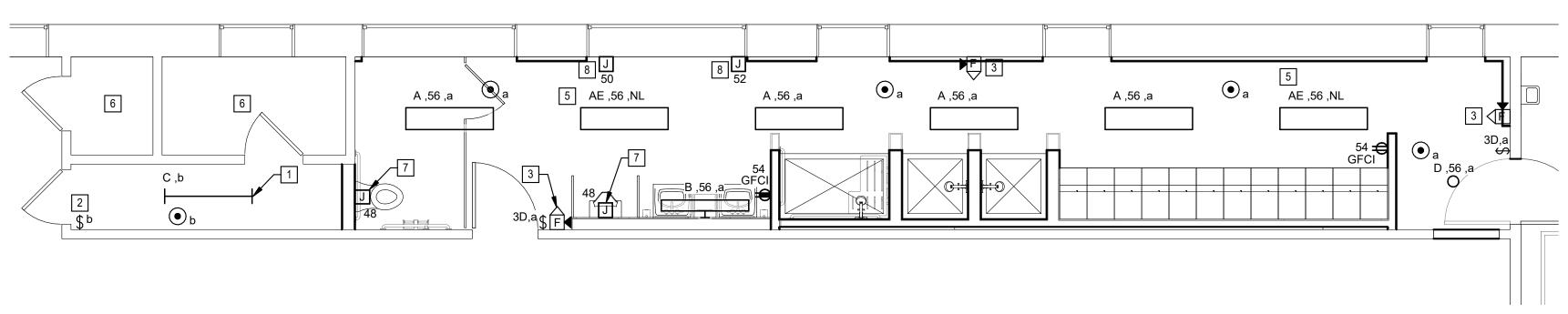
SHEET TITLE:

ENLARGED POOL PLANS -ELECTRICAL

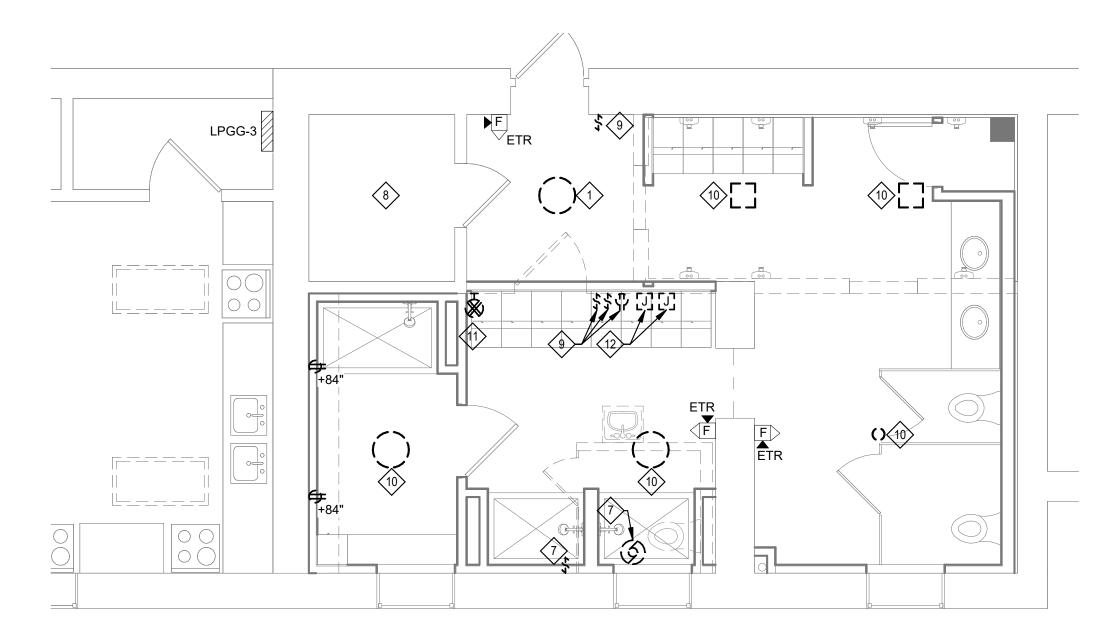
SHEET NUMBER:



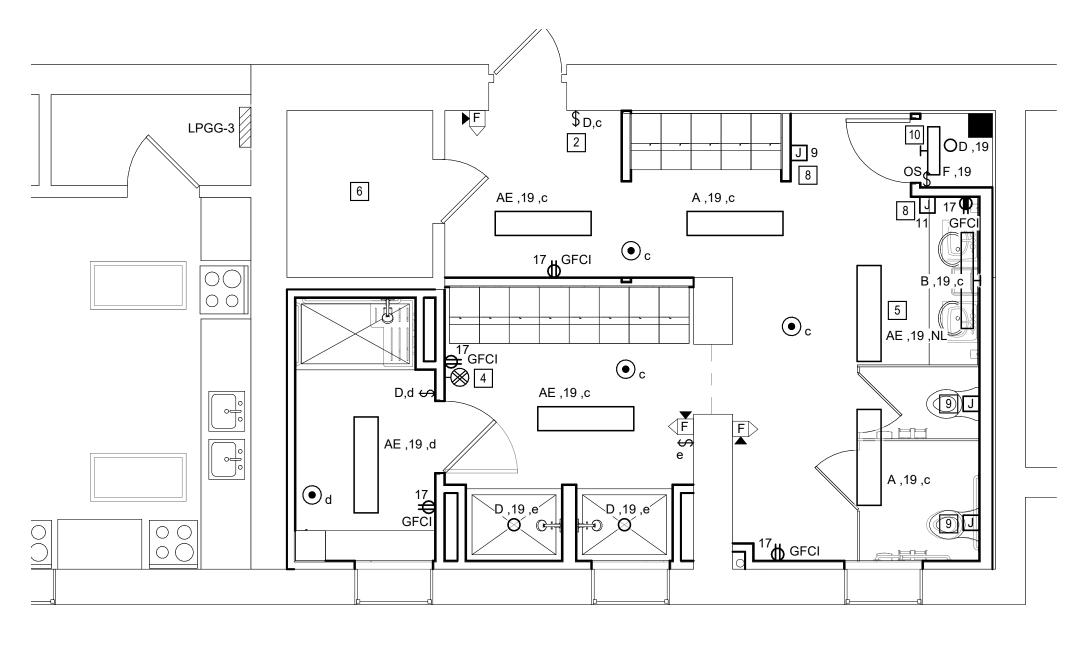
1 BOY'S LOCKER ROOM - DEMOLITION - ELECTRICAL - ALTERNATE #3



BOY'S LOCKER ROOM - NEW WORK - ELECTRICAL - ALTERNATE #3







GIRL'S LOCKER ROOM - NEW WORK - ELECTRICAL - ALTERNATE #3

GENERAL NOTES

- A. INFORMATION ON DRAWINGS WAS OBTAINED FROM CASUAL FIELD OBSERVATION. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO BID.
- B. CONTRACTOR SHALL REPAIR AND/OR REROUTE CIRCUITS THAT ARE DISRUPTED BY DEMOLITION.
- C. CONTRACTOR SHALL PROVIDE ALL CUTTING AND PATCHING AS REQUIRED FOR EXECUTION OF WORK.

NEAREST JUNCTION BOX AND CAPPED OFF.

- D. ALL CIRCUITS NO LONGER IN USE AFTER DEMOLITION SHALL BE REMOVED TO THE
- E. ALL NEW CIRCUITS IN BOY'S LOCKER ROOM SHALL ORIGINATE FROM PANELBOARD LOCATION.

 LPGG-1 UNLESS NOTED OTHERWISE. SEE SHEET E-200 FOR PANELBOARD LOCATION.
- F. ALL NEW CIRCUITS IN GIRL'S LOCKER ROOM SHALL ORIGINATE FROM PANELBOARD LPGG-3 UNLESS NOTED OTHERWISE.
- G. CONTRACTOR SHALL TEST FIRE ALARM AND ALERTING DEVICES FOR PROPER OPERATION AFTER MODIFICATIONS HAVE BEEN MADE.
- H. LIGHTING POWER PACKS AND CONTROLLERS SHALL BE INSTALLED ABOVE ACCESSIBLE CEILINGS OR IN CLOSETS.

DEMOLITION KEYED NOTES

- 1) DEMO EXISTING LIGHT FIXTURE. RETAIN CIRCUIT FOR REUSE.
- 2 REMOVE SWITCH. RETAIN BOX AND CIRCUIT TO EXISTING LIGHT FIXTURE LOCATION FOR REUSE.
- DEMO LIGHT SWITCHES AND PROVIDE BLANK COVER FOR OUTLET BOX. REMOVE
- UNUSED CONDUCTORS TO LIGHT FIXTURE.
- REMOVE EXISTING FIRE ALARM AND ALERTING DEVICE. STORE AND PROTECT FOR REUSE. MAINTAIN INTEGRITY OF CIRCUIT DURING CONSTRUCTION.

 DEMO RECEPTACLE. REMOVE CIRCUIT TO NEAREST JUNCTION BOX AND CAP OFF.
- OFF.

 6 REMOVE LIGHT FIXTURE. CAP OFF CIRCUIT AT JUNCTION BOX AND PROVIDE COVER PLATE.
- DISCONNECT EXISTING EXHAUST FAN AND REMOVE SWITCH. REMOVE CIRCUIT TO NEAREST JUNCTION BOX AND CAP OFF.
- 8 NO DEMOLITION WORK IS REQUIRED IN THIS ROOM.
- 9 DEMO WIRING DEVICE AND CIRCUIT IN ITS ENTIRETY.
- 10 DEMO LIGHT FIXTURE AND CIRCUIT IN ITS ENTIRETY.
- REMOVE EXISTING SPEAKER. STORE AND PROTECT FOR REUSE. REMOVE CIRCUIT TO NEAREST AVAILABLE SPACE TO STORE FOR REUSE.
- DEMO EXISTING ELECTRIC HAND DRYER. REMOVE CIRCUIT IN ITS ENTIRETY.

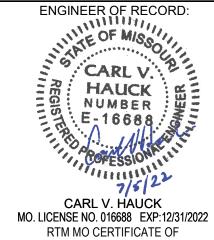
NEW WORK KEYED NOTES

- 1 PROVIDE NEW LIGHT FIXTURE AND EXTEND CIRCUIT FROM EXISTING LIGHT FIXTURE OUTLET BOX LOCATION.
- 2 PROVIDE NEW WIRING DEVICE AT EXISTING SWITCH LOCATION.
- REINSTALL EXISTING FIRE ALARM AND ALERTING DEVICE IN NEW LOCATION. MODIFY AND EXTEND EXISTING CIRCUIT AS NECESSARY.
- REINSTALL EXISTING SPEAKER AT NEW LOCATION. MODIFY AND EXTEND EXISTING CIRCUIT AS NECESSARY.
- 5 LIGHT FIXTURE TO OPERATE CONTINUOUSLY AS A SECURITY LIGHT AND BE DIMMED WITH OTHER LIGHTS ON THE CIRCUIT. UTILITY OUTAGE SHALL INITIATE
- DIMMED WITH OTHER LIGHTS ON THE CIRCUIT. UTILITY OUTAGE SHALL IN 100% ILLUMINATION OUTPUT THROUGH EMERGENCY BATTERY.
- 6 NO NEW WORK IN THIS ROOM.
- PROVIDE HARDWIRED CONNECTION TO FLUSH VALVE. PROVIDE RECESSED JUNCTION BOX IN WALL WITH FLUSH COVER FOR TRANSFORMERS. WIRE TRANSFORMERS TO CIRCUIT 48 IN PANELBOARD LPGG-1.
- 8 CONNECT 120V ELECTRIC HAND DRYER. EXTEND (2) #12 AND #12 GND IN 3/4" CONDUIT TO PANELBOARD INDICATED.
- 9 PROVIDE HARDWIRED CONNECTION TO FLUSH VALVE. PROVIDE RECESSED JUNCTION BOX IN WALL WITH FLUSH COVER FOR TRANSFORMERS. WIRE
- TRANSFORMERS TO CIRCUIT 7 IN PANELBOARD <u>LPGG-3</u>.

 10 LIGHT FIXTURE TO BE WALL-MOUNTED OVER DOOR JAMB.

MICHAEL L. PARSON, GOVERNOR ENGINEER OF RECORD:

STATE OF MISSOURI



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314 588 8381
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OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF
ELEMENTARY &
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REPAIR SWIMMING POOL

MISSOURI SCHOOL FOR THE BLIND 3815 MAGNOLIA AVENUE ST. LOUIS, MO

PROJECT # E2107-01 SITE# 2011 FACILITY # 5012011003, 501201104

REVISION:

DATE:

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DATE:

DATE:

ISSUE DATE: 07/06/2022

CAD DWG FILE: E-201
DRAWN BY: MC
CHECKED BY: CH
DESIGNED BY: MC

SHEET TITLE:

LOCKER ROOM PLANS-ELECTRICAL

SHEET NUMBER:

E-201

LIGHT FIXTURE SCHEDULE

DLAN					LUMINAIRE	LIGHT SO	OURCE INFO	RMATION	MAXIMUM
PLAN MARK	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	ACCESSORIES AND REMARKS	VOLTAGE	TYPE	LUMENS	COLOR TEMP	INPUT WATTS
	4FT LED FIXTURE W/ LENS	LITHONIA	LBL4-4000LM-80CRI-35K-MIN10-GZT-MVOLT	FIXTURE SHALL BE LISTED FOR USE IN DAMP LOCATIONS.	MVOLT	LED	4000	3500K	32
Α		METALUX	4WSNLED-LD4-40SL-F-UNV-L835-CD1-U						
		COLUMBIA	LAWR-35LW-EU						
	4FT LED FIXTURE W/ LENS, EMERGENCY BATTERY	LITHONIA	LBL4-4000LM-80CRI-35K-MIN10-GZT-MVOLT-EL14L	PROVIDE EMERGENCY BATTERY. FIXTURE SHALL BE LISTED	MVOLT	LED	4000	3500K	32
AE		METALUX	4WSNLED-LD4-40SL-F-UNV-EL14W-L835-CD1-U	FOR USE IN DAMP LOCATIONS.					
		COLUMBIA	LAWR-35LW-EU-ELL14						
	4FT WALL-MOUNTED VANITY	AXIS	ARWLED-800-80-35-S-2-AP-UNV-DP-1	FIXTURE SHALL BE LISTED FOR USE IN DAMP LOCATIONS.	MVOLT	LED	3200	3500K	32
В		METALUX	4BCLED-LD4-32SL-F-UNV-L835-CD1-U						
		COLUMBIA	W3B4-35VW-SFA-EDU						
	4FT LED STRIP LIGHT WITH LENS	LITHONIA	CLX L48 5000LM SEF RDL MVOLT GZ10 35K 80CRI WH	FIXTURE SHALL BE LISTED FOR USE IN DAMP LOCATIONS.	MVOLT	LED	3000	3500K	20
С		METALUX	4SNLED-LD5-30SL-LN-UNV-L835-CD1-U						
		COLUMBIA	LCL4-35ML-EU						
	4" CYLINDER DOWNLIGHT	LITHONIA	LDN4CYL-35/10-L04AR-LSS-MVOLT-GZ10-PM-DWHG	PROVIDE SURFACE-MOUNTED BACKBOX AND PENDANT	MVOLT	LED	1000	3500K	11
D		HALO COMMERCIAL	HCC4S10D010MW-HCC8PXXMW-HM412835-41MDC	STEM. STEM LENGTH WILL BE 24" MAXIMUM, BUT WILL BE CONFIRMED DURING THE SUBMITTAL PROCESS. FIXTURE					
		WILLIAMS	4CR-L12/835-WHT-DIM-UNV-OM-CS-PM24	SHALL BE LISTED FOR USE IN DAMP LOCATIONS.					
	2FT WALL MOUNTED FIXTURE	LITHONIA	WL2-22L-GZ1-LP835-NOC	FIXTURE SHALL BE LISTED FOR USE IN DAMP LOCATIONS.	MVOLT	LED	2120	3500K	21
F		METALUX	2BCLED-LD4-24HL-F-UNV-L835-CD1-U						
		COLUMBIA	W3B2-35MW-SFA-EDU						

<u>LIGHTING CONTROL SEQUENCE GENERAL NOTES</u>

- A. CONTRACTOR IS RESPONSIBLE FOR ALL MISCELLANEOUS HARDWARE, CLIPS, ANGLES, FRAMES, ETC AS REQUIRED TO MOUNT THE FIXTURES IN OR ON THE SURFACES THEY ARE TO BE INSTALLED.
- B. REFER TO ARCHITECTURAL DOCUMENTS FOR EXACT MOUNTING LOCATIONS OF LIGHT FIXTURES. WHEN INSTALLING LUMINARIES, CONTRACTOR SHALL USE THE LIGHT FIXTURE MANUFACTURER'S MOUNTING HARDWARE AND FOLLOW ALL MANUFACTURER'S INSTALLATION DIRECTIONS.
- D. ALL RECESSED DOWNLIGHTS MUST BE INSTALLED SO THAT THE BOTTOM OF THE THROAT IS EVEN WITH THE FINISHED CEILING PLANE. THE OVERLAPPING FLANGE MUST THEN FIT FLUSH TO THE CEILING PLANT/THROAT. NO
- LIGHT LEAK MUST BE VISIBLE. ALL MISCELLANEOUS HARDWARE ABOVE THE CEILING PLANE TO ACCOMPLISH THE ABOVE SHALL BE INCLUDED IN THE BASE BID. E. ALL RECESSED DOWNLIGHTS SHALL HAVE SELF-FLANGED REFLECTORS.
- F. ALL LIGHT FIXTURES SHALL HAVE A U.L. LABEL.
- G. WHEN FIXTURES ARE INSTALLED IN CONTINUOUS ROWS 2 OR MORE, FIXTURES SHALL BE APPROVED FOR USE AS WIREWAY. H. REFER TO DIVISION 26 SPECIFICATIONS FOR ADDITIONAL INFORMATION CONCERNING FIXTURES, FINISHES, DRIVERS, ETC.
- INDOOR LED COLOR TEMPERATURE SHALL BE 3500 KELVIN. OUTDOOR LED COLOR TEMPERATURE SHALL BE 3500 KELVIN, UNLESS NOTED OTHERWISE.
- VERIFY CEILING CONDITIONS AND COORDINATE LIGHT FIXTURE MOUNTING HARDWARE AND TRIMS NEEDED PRIOR TO ORDERING.
- VERIFY QUANTITIES, MODEL NUMBERS AND DESCRIPTIONS WITH MANUFACTURERS PRIOR TO PLACING ORDER.
- CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURE AND CATALOG NUMBERS ONLY. CONTRACTOR SHALL CONSIDER THE COMPLETE DESCRIPTION, NOTES, SPECIFICATIONS, MOUNTING AND INSTALLATION CONDITIONS IN CONJUNCTION WITH THE CATALOG NUMBER TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURER LISTED AR THE BASIS OF DESIGN.
- M. CONTRACTOR SHALL PROVIDE ALL LIGHT FIXTURES UNLESS NOTED OTHERWISE.
- N. EMERGENCY BATTERIES FOR LIGHT FIXTURES SHALL BE CONNECTED TO THE UNSWITCHED LIGHTING CIRCUIT IN THE SAME ROOM/AREA
- O. LUMENS AND INPUT WATTS SHOWN ON THE LIGHT FIXTURE SCHEDULE ARE FOR REFERENCE ONLY. CONTRACTOR SHALL PERFORM LIGHTING CALCULATIONS TO DETERMINE THE REQUIRED LUMEN OUTPUT FOR EACH ROOM/SPACE TO MEET IES LIGHT LEVEL RECOMMENDATIONS.

EQUIPMENT DATA SCHEDULE

				MOTOR (OR EQUIPMI	ENT DATA				DISCON	NECT SWITCH	AT EQUIPM	ENT				STA	RTER				
PLAN MARK	EQUIPMENT	LOCATION	FURNISH BY	HP/KW/A	VOLTS/ PHASE		FED FROM	BRANCH CIRCUIT	TYPE 4	NEMA ENCLOS. TYPE	SWITCH/ FUSE SIZE	FURNISH. BY	INST.BY/ CONN.BY	NEMA SIZE	TYPE 5	NEMA ENCLOS. TYPE	SWITCH/ FUSE SIZE	ACCESS.	FURNISH. BY	CONN.BY	CONTROL WIRING BY	REMARKS 7
EF-1	THRU-WALL EXHAUST FAN	POOL EQUIPMENT 14-1653A	23		120/ 1	23 / 26	LPGG-2	21														NOTE 6
PH-1	POOL HEATER	POOL EQUIPMENT 14-1653A	22		120/ 1	22 / 26	LPGG-2	23														NOTE 6
SP-1	SUMP PUMP	POOL EQUIPMENT 14-1653A	22		208/ 3	22 / 26	LPGG-2	26 / 28 / 30														NOTE 6
DH-1	4KW ELECT. DUCT HEATER	POOL EQUIPMENT 14-1653A	23		208/ 3	23 / 26	LPGG-2	1/3/5													23	NOTE 6

1) SPECIFICATION DIVISION NUMBER: DIVISION 22 - PLUMBING **DIVISION 23 - MECHANICAL DIVISION 26 - ELECTRICAL** GC - GENERAL CONTRACTOR

2) HORSEPOWER (HP) IS SHOWN

ARE CALLED OÙT.

- (3) REFER TO FEEDER SCHEDULE WHEN THIS COLUMN CONTAINS A FEEDER DESIGNATION INSTEAD OF CONDUCTOR SIZE.
- (4) NF NON FUSED
- UNLESS AMPS(À) OR KILOWATTS (KW) F- FUSED TOG - TOGGLE
- ALL MAGNETIC AND SOLID STATE STARTERS ARE TO BE EQUIPPED WITH AUXILIARY CONTACTS, PILOT LIGHTS AND FUSED CONTROL POWER TRANSFORMERS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 5 STARTER TYPE:
 - COMB1 COMBINATION FULL VOLTAGE NON-REVERSING MAGNETIC STARTER WITH FUSED DISCONNECT SWITCH. COMB2 - COMBINATION FULL VOLTAGE NON-REVERSING MAGNETIC
 - STARTER WITH FUSED DISCONNECT SWITCH. COMBINATION FULL VOLTAGE NON-REVERSING MAGNETIC COMB3 - STARTER WITH THERMAL MAGNETIC MOLDED CASE CIRCUIT
 - BREAKER DISCONNECT. COMB4 - COMBINATION FULL VOLTAGE NON-REVERSING MAGNETIC STARTER WITH MAGNETIC ONLY MOLDED CASE CIRCUIT BREAKER DISCONNECT.
- FVNR FULL VOLTAGE NON-REVERSING MAGNETIC STARTER
- WITHOUT DISCONNECT. - MANUAL STARTER WITH PILOT LIGHT.
- SDS STAR DELTA STARTER. PWCP - PREWIRED CONTROL PANEL. VFD - VARIABLE FREQUENCY DRIVE.

2S2W - 2 SPEED, 2 WINDING

2S1W - 2 SPEED, SINGLE WINDING

- 6 <u>ACCESSORIES:</u>
 - HOAP HOA WITH PILOT LIGHT PB - START/STOP PUSH BUTTON (MOMENTARY CONTACT)
- KEY TO REMARKS:
 - (1) FIRE ALARM INTERLOCK (2) INTEGRAL DISCONNECT SWITCH
 - (3) MOUNT DISCONNECT SWITCH ON EQUIPMENT HOUSING
 - (4) INTEGRAL MOTOR STARTER/VFD (5) POWER TO THIS UNIT IS FED FROM THE OUTDOOR UNIT
 - (6) NO DISCONNECT REQUIRED. EQUIPMENT IS WITHIN SIGHT OF PANEL.

LIGHTING CONTROL SEQUENCE OF OPERATION	
	_

SPACE TYPE	ROOM NAME/NUMBER	MANUAL ON/OFF WALL SWITCH	DIMMER SWITCH	OVERRIDE SWITCH (2-HOUR TIMER)	MULTI-ZONE SWITCH	MULTI-ZONE SCENE (GRAPHIC)	TIME SCHEDULE ON	TIME SCHEDULE OFF	OCCUPANCY SENSOR VACANCY MODE	OCCUPANCY SENSOR OCCUPANCY MODE	INTERIOR DAYLIGHT SENSOR (ON/OFF AND DIMMING)	EXTERIOR PHOTO CONTROL ON	STAND-ALONE ROOM CONTROLS	OCCUPANCY TIME OUT PERIOD (MINUTES)	PLUGLOAD CONTROLLED	NETWORKED	DIMMING LEVELS SET BY PROGRAMMING	CONTROLLED BY MASTER SWITCH	DUSK TO DAWN	REMARKS	
LOCKER ROOM	BOYS LOCKER ROOM / 14-1651C	Х	Х	-	-	-	-	-	-	Х	-	-	Х	30	-	-	-	-	-	1	
LOCKER ROOM	GIRLS LOCKER ROOM / 14-1654C	Х	Х	-	-	-	-	-	-	Х	-	-	Х	30	-	-	-	-	-	2 3	

LIGHTING CONTROL SEQUENCE GENERAL NOTES:

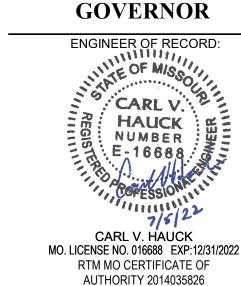
- A. THE LIGHTING CONTROL SYSTEM SHALL COMPLY WITH THE 2018 IECC. THE SYSTEM SHALL INCLUDE BUT IS NOT LIMITED TO INDIVIDUAL ROOM CONTROLS (WALL SWITCH, OCCUPANCY SENSORS, POWER PACKS, ETC.), OCCUPANCY SENSORS, DAYLIGHT SENSORS, WALL SWITCHES (DIMMER, SCENE CONTROLLERS, OVERRIDE SWITCHES), NETWORK SWITCH AND BRIDGES, ETC. FOR A COMPLETE OPERATIONAL INSTALLATION.
- B. STAND-ALONE ROOM CONTROLS SHALL INCLUDE ALL NECESSARY COMPONENTS SUCH AS WALL SWITCHES (ON/OFF, DIMMER, SCENE CONTROLLER, ETC.), OCCUPANCY SENSOR (CEILING OR WALL), POWER PACKS, LOW AND LINE VOLTAGE WIRING, ETC. FOR A COMPLETE WORKING INSTALLATION.
- C. OCCUPANCY SENSORS SHALL PROVIDE COMPLETE COVERAGE OF EACH SPACE INDICATED. CONTRACTOR'S SUBMITTAL PACKAGE SHALL INCLUDE OCCUPANCY COVERAGE MAP TO CONFIRM ADEQUATE COVERAGE. ADD OCCUPANCY SENSORES AS REQUIRED.

D. CONTRACTOR SHALL COORDINATE TIME SCHEDULING WITH THE OWNER FOR LIGHTING TO BE CONTROLLED BY A TIME SCHEDULE.

LIGHTING CONTROL SEQUENCE REMARKS:

- 1 ACTIVATION OF ANY MOTION SENSOR IN THE BOYS LOCKER ROOM SHALL TURN ON ALL LIGHTING FIXTURES WITHIN THE LOCKER ROOM.
- 2 ACTIVATION OF ANY MOTION SENSOR IN THE GIRLS LOCKER ROOM SHALL TURN ON ALL LIGHTING FIXTURES WITHIN THE LOCKER ROOM EXCEPT THE ISOLATED SHOWER AREA.
- 3 ACTIVATION OF THE MOTION SENSOR IN THE GIRLS LOCKER ROOM ISOLATED SHOWER AREA SHALL TURN ON ALL LIGHTING FIXTURES WITHIN THE LOCKER ROOM.

STATE OF MISSOURI MICHAEL L. PARSON,





OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

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REPAIR SWIMMING POOL

MISSOURI SCHOOL FOR THE BLIND 3815 MAGNOLIA AVENUE

PROJECT # E2107-01 2011 FACILITY # 5012011003,

REVISION: REVISION: DATE: **REVISION:** DATE:

501201104

ST. LOUIS. MO

CAD DWG FILE: E-600 DRAWN BY: CHECKED BY: Checker DESIGNED BY: Designer

ISSUE DATE: 07/06/2022

SHEET TITLE:

ELECTRICAL SCHEDULES

SHEET NUMBER:

	Branch Panel: LPGG-1												
	Location: BOWLING ALLE Supply From: Mounting: Recessed Enclosure: Type 1	EY 14-16	51			Volts: Phases: Wires:		3 Wye			A.I.C. Rating: 10000 Mains Type: MLO Mains Rating: 600 A MCB Rating: 1 A		
otes:													
СКТ	Circuit Description	Trip	Poles		Α		В		c	Poles	Trip	Circuit Description	СК
1	POOL LIGHTS	20 A	1	0 VA	0 VA					1	20 A	EXISTING LOAD	2
3	POOL LIGHTS	20 A	1			0 VA	0 VA			1	20 A	CONSENSATE PUMP	4
5	POOL LIGHTS	20 A	1					0 VA	0 VA	1	20 A	EXISTING LOAD	6
7	POOL LIGHTS	20 A	1	0 VA	0 VA	0.144	0.144			1	20 A	HEATER-BOYS LOCKER RM	8
9	EXISTING LOAD	20 A	1			0 VA	0 VA	0.1/4	0.1/4	1	20 A	ROOM 1003E WEST A/C UNIT	10
11 13	COM OUTLETS RM 110E EXISTING LOAD	20 A 20 A	1	0 VA	0 VA			0 VA	0 VA	1		EXISTING LOAD EXISTING LOAD	12 14
15	EAST OUTLETS RM 110	20 A	1	JVA	UVA	0 VA	0 VA			1	20 A	EXISTING LOAD	16
17	EXISTING LOAD	20 A	1					0 VA	0 VA	1	20 A	EXISTING LOAD	18
19	BOWLING ALLEY OVERHEAD BLACK LIGHTS	20 A	1	0 VA	0 VA					1	20 A	LANE 1 PIN SETTER	20
21	EXISTING LOAD	20 A	1			0 VA	0 VA			1	20 A	BOWLING ALLEY LIGHTS	22
23	LOCKER LIGHTS	20 A	1					0 VA	0 VA	1	20 A	LANE 2 PIN SETTER	24
25	FIRE DOORS	20 A	1	0 VA	0 VA					1	20 A	GIRLS SHOWER ROOM	26
27	LOCKER RM LTS	20 A	1			0 VA	0 VA	0.1/4	0.1/4	1		E. BASEMENT HALL	28
29	EXISTING LOAD	20 A	1	0.1/4	0.1/4			0 VA	0 VA	1	20 A	BOWLING ALLEY LIGHTS	30
31	EXISTING LOAD EXISTING LOAD	20 A 20 A	1	0 VA	0 VA	0 VA	0 VA			2	30 A	EXISTING LOAD	32
35	EXISTING LOAD	20 A	1			UVA	UVA	0 VA	0 VA				36
37	EXISTING LOAD	20 A	1	0 VA	0 VA			0 7/1	0 1/1	3	100 A	POOL BOILER ROOM	38
39						0 VA	0 VA						40
41	MINI SPLIT CONDENSER	200 A	3					0 VA	0 VA	1	20 A	EXISTING LOAD	42
43				0 VA	0 VA					1	20 A	SCORE TABLE	44
45	EXISTING LOAD	20 A	1			0 VA	0 VA			1	20 A	EXISTING LOAD	46
47	EXISTING LOAD	20 A	1					0 VA	600 VA	1	20 A	FLUSH VALVES - BOY'S LOCKER ROOM	48
49	EXISTING LOAD	20 A	1	0 VA	1500					1	20 A	HAND DRYER - BOY'S LOCKER ROOM	50
51	EF-8	15 A	1			0 VA	1500		2021/1	1	20 A	HAND DRYER - BOY'S LOCKER ROOM	52
53	EF-7	15 A	2	0 VA	405 \/A			0 VA	360 VA	1	20 A	RECEPTS - BOY'S LOCKER ROOM, POOL ROOM	
55 57	SPACE			UVA	195 VA	0 VA	800 VA			1	20 A 20 A	LIGHTING - BOY'S LOCKER ROOM EWC/BOTTLE FILLER - POOL ROOM	56 58
59	SPACE					UVA	000 VA	0 VA	180 VA	1	20 A	RECEPTACLE - POOL ROOM	60
61	SPACE			0 VA	0 VA			0 171	100 171			SPACE	62
63	SPACE					0 VA	0 VA					SPACE	64
65	SPACE							0 VA	0 VA		-	SPACE	66
67	SPACE			0 VA	0 VA							SPACE	68
69	SPACE					0 VA	0 VA					SPACE	70
71	SPACE			0.111	6)			0 VA	0 VA			SPACE	72
73		45 4		0 VA	0 VA	0.1/4	0.1/4					SPACE	74
75 77	FCU-1	15 A	3			0 VA	0 VA	0 VA	0 VA			SPACE SPACE	76
79				0 VA	0 VA			UVA	JVA			SPACE	80
81	_ DHU-1	50 A	3	3 7/1	J 7/1	0 VA	0 VA					SPACE	82
83	1							0 VA	0 VA			SPACE	84
		Tot	al Load:	169	2 VA	230	0 VA		0 VA		•		1
egen	d:	Tota	I Amps:	15	5 A	20) A	10) A				
	Classification	Con	nected L	_oad		mand Fa		Estin	nated De	mand		Panel Totals	
ighting			195 VA			125.00%			243 VA				
Power	1-		3600 VA			100.00%			3600 VA			Total Conn. Load: 5132 VA Total Est Demand: 5180 VA	
kacant	acie	1	1340 VA		1	700 00%	n	1	1:340 \/∆			Lotal Est. Demand: 15180 VA	

1340 VA

100.00%

Receptacle

KEYED	NOTES

Total Est. Demand: 5180 VA

Total Est. Demand: 14 A

Total Conn.: 14 A

1 PROVIDE NEW CIRCUIT BREAKER.

1340 VA

- 2 PROVIDE NEW GFCI CIRCUIT BREAKER.
- 3 PROVIDE NEW CIRCUIT BREAKER TO REPLACE EXISTING.

Cuit Description MER IDENS. PUMP REC.	Trip 20 A 20 A 20 A	Poles 3		A 750 VA									
MER IDENS. PUMP	20 A 20 A 20 A					В							
MER IDENS. PUMP	20 A 20 A 20 A					3		C		Tuin	Circuit Da		CKI
IDENS. PUMP	20 A 20 A	3	1334	750 VA	В		С		Poles	Trip	Circuit De	cription	СКТ
IDENS. PUMP	20 A 20 A	1				750 VA			2	20 A	UV TREATMENT SYSTEM POOL EXHAUST FANS		4
IDENS. PUMP	20 A	1			1334	750 VA	1334	0 VA	1	20 A			6
IDENS. PUMP	20 A		0 VA	0 VA			1334	UVA	1				8
IDENS. PUMP		1	OVA	UVA	100 VA	0 VA			1		CUSTODIAL SUP. REC.		10
	20 A	1			100 171	0 1/1	0 VA	0 VA	1		RECEP. AT PUMP		12
	20 A	1	0 VA	0 VA			0 171	0 171					14
	20 A	1	0 171	0 171	0 VA	0 VA			2	20 A	A.C. JACKIE FOOTE		16
R 109E	20 A	1					0 VA	0 VA	1	20 A	EXISTING LOAD		18
		1	0 VA	0 VA			-						20
		1			53 VA	1920			1	20 A	CHEMICAL CONTROLLER		22
	20 A	1					1452	1920	1	20 A	CHEMICAL CONTROLLE	R	24
			2005	900 VA					3	30 A	SUMP PUMP		26
27 POOL RECIRCULATION PUMP VFD 29	30 A	3			2005	900 VA							28
								2005 900 VA					30
		Total Load:		4989 VA		7062 VA		7611 VA					
		l Amps:	nps: 42 A		62 A		66 A						
	IDENSATE	ATION PUMP VFD 30 A Tota	20 A	1	20 A	ATION PUMP VFD 20 A 1 0 VA 0 VA 20 A 1 53 VA 20 A 1 2005 900 VA 2005 900 VA 2005 900 VA 4989 VA 706	1	ATION PUMP VFD 20 A 1 0 VA 0 VA 1920 20 A 1 53 VA 1920 20 A 1 2005 900 VA 2005 900 VA 2005 900 VA 2005 900 VA 2005 900 VA 7062 VA 761	NDENSATE 20 A 1 0 VA 0 VA	ATION PUMP VFD 20 A 1 0 VA 0 VA 1920 1 20 A 1 1 1452 1920 1 2005 900 VA 2005 900 VA 3 2005 900 VA 3 2005 900 VA 3 2005 900 VA 7062 VA 7611 VA	NDENSATE 20 A 1 0 VA 0 VA	NDENSATE 20 A 1 0 VA 0 VA	NDENSATE 20 A 1 0 VA 0 VA

Branch Panel: LPGG-3 Location: CLOSET 14-1652B Volts: 120/208 Wye **A.I.C. Rating:** 10000 Mains Type: MLO Supply From: Mounting: Surface Mains Rating: 225 A Enclosure: Type 1 MCB Rating: 0 A В С Poles Trip **Circuit Description Circuit Description** 4 6 8 10 12 14 16 3 15 A FCU-2 3 RANGE 0 VA 0 VA 0 VA 0 VA 7 FLUSH VALVES - GIRL'S LOCKER ROOM 20 A | 1 | 600 VA | 0 VA | 9 HAND DRYER - GIRL'S LOCKER ROOM 100 A H.E. RM #3 FEED 20 A | 1 | | 1500... | 0 VA | 1 | 11 | HAND DRYER - GIRL'S LOCKER ROOM 1500... 0 VA 13 15 RANGE 60 A 2 0 VA 0 VA 1 15 A EF-9 0 VA | 0 VA | 18 1 17 RECEPTS - GIR'S LOCKER ROOM 900 VA | 0 VA | 2 60 A EXISTING LOAD 20 1 19 LIGHTS - GIRL'S LOCKER ROOM 20 A | 1 | 195 VA | 0 VA | 20 A 1 1 20 A LIGHTS-HALL 21 LIGHTS-BIG ROOM & REC EXHAUST FAN 0 VA | 0 VA 23 LIGHTS-KITCHEN 0 VA 0 VA 1 20 A GFI BY SLOP SINK 25 LIGHTS-CLOSET - REC. COUNTER 1 20 A REC.-COUNTER TOP,EXHAUST FAN 26 20 A | 1 | 0 VA | 0 VA | 27 REC.-KITCHEN CLOCK, REFRIG. 1 20 A REC.-GIRLS SHOWER ROOM 20 A | 1 | 0 VA | 0 VA | 28 30 32 29 REC.-GIRLS SHOWER ROOM 0 VA 0 VA 1 20 A REC.-GIRLS SHOWER ROOM 31 REC.-GIRLS SHOWER ROOM 1 20 A REC.-GIRLS SHOWER ROOM 20 A | 1 | 0 VA | 0 VA | 33 106E A/C UNIT 1 20 A HAIR DRYER 34&36 208 34 20 A | 1 | 0 VA | 0 VA | 35 104E A/C UNIT 0 VA | 0 VA | 1 | 20 A | HAIR DRYER 34&36 208 37 RM 104 N&E WALL 1 20 A HAIR DRYER 38&40 20 A 1 0 VA 0 VA 40 39 RM 100 N. WALL 0 VA | 0 VA | 1 20 A HAIR DRYER 38&40 42 41 RM 104 W. WALL 0 VA | 0 VA | 1 | 20 A | RM 104 W. WALL 43 EXISTING LOAD 20 A | 1 | 0 VA | 0 VA | 1 20 A RM 104 S. WALL 44 1 20 A 8E-LIGHT 45 CONDENSATE PUMP-GIRLS LOCKER RM 46 20 A 1 0 VA | 0 VA | 47 49 CUSTODIAL A/C 48 0 VA 0 VA 1 20 A EXISTING LOAD 1 20 A EXISTING LOAD 51 EXISTING LOAD 20 A 1 0 VA 0 VA -- -- SPACE 52 0 VA 0 VA -- -- SPACE 53 SPACE 54 55 NO BUS -- -- 0 VA 0 VA 57 NO BUS -- NO BUS 0 VA | 0 VA 59 NO BUS 0 VA 0 VA -- -- NO BUS Total Load: 793 VA 1500 VA 2400 VA 13 A 21 A Total Amps: **Load Classification Estimated Demand** Panel Totals Connected Load **Demand Factor** 125.00% 195 VA 243 VA 3600 VA 100.00% 3600 VA Total Conn. Load: 4692 VA Total Est. Demand: 4740 VA 900 VA 100.00% Receptacle 900 VA Total Conn.: 13 A Total Est. Demand: 13 A

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



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OFFICE OF
ADMINISTRATION
DIVISION OF FACILITIES

DEPARTMENT OF ELEMENTARY & SECONDARY EDUCATION

MANAGEMENT, DESIGN

AND CONSTRUCTION

REPAIR SWIMMING POOL

MISSOURI SCHOOL FOR THE BLIND 3815 MAGNOLIA AVENUE ST. LOUIS, MO

PROJECT # E2107-01 SITE# 2011 FACILITY # 5012011003, 501201104

REVISION:

DATE:

REVISION:

DATE:

REVISION:

DATE:

DATE:

CAD DWG FILE: E-601

DRAWN BY: MC

CHECKED BY: CH

DESIGNED BY: MC

ISSUE DATE: 07/06/2022

SHEET TITLE:

PANELBOARD SCHEDULES

SHEET NUMBER:

E-601