

Mountain Recreation Eagle Pool

Issue Date: 01/22/2024
 Issued For: DESIGN DEVELOPMENT



SITE LOCATION MAP



2000 LAWRENCE STREET
 DENVER, COLORADO 80205
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 www.olcdesigns.com

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PROJECT TEAM

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ABBREVIATIONS

A	@ ANGLE	D	CTR. CENTER	F	FURR. FURRING	L	LOCKER	P	PT. POST TENSIONED SLAB	S	SQ. SQUARE
	< AT		D.F. DRINKING FOUNTAIN		FUT. FUTURE		LT. LIGHT		PT. PAINT		ST. STAIN
	A/C AIR CONDITIONING		D.L. DEADLOAD		G.B. GRAB BAR		LT.WT. LIGHT WEIGHT		PTL. PORCELAIN TILE		STD. STANDARD
	AB ANCHOR BOLT		D.S. DOWN SPOUT		G.B.K. GLASS BLOCK		L.V.R. LOUVER		PTN. PARTITION		STL. STEEL
	ABV ABOVE		DBL. DOUBLE		G.C. GENERAL CONTRACTOR		M.H. MANHOLE		P.V. PAVEMENT		STOR. STORAGE
	ACT ADJUSTABLE		DEG. DEGREE		G.I. GALVANIZED IRON		M.O. MASONRY OPENING		P.V.C. POLYVINYL CHLORIDE		STRUC.T. STRUCTURE or STRUCTURAL
	AD AREA DRAIN		DEPT. DEPARTMENT		G.P. GYM WALL PADDING		M.F.P. MOVABLE PARTITION		Q.T. QUARRY TILE		STS. STAIR THREAD SYSTEM
	ADD# ADDITIONAL		DIA. DIAMETER		G.A. GAUGE		M.S.B. MOP SERVICE BASIN		R		SUSP. SUSPENDED
	ADD# ADDENDUM NUMBER		DIAG. DIAGONAL		GALV. GALVANIZED		M.A.S. MASONRY		R		SYS. SYSTEM
	ADJ ADJACENT or ADJUSTABLE		DIM. DIMENSION		GCMC GLAZED CONCRETE		MATL. MATERIAL		R		T
	AFF ABOVE FINISHED FLOOR		DISP. DISPENSER		G.D. GRADE		M.AX. MAXIMUM		R.C.P. REFLECTED CEILING PLAN		T
	AFG ABOVE FINISHED GRADE		DN. DOWN		GL. GLASS or GLAZING		M.C. MECH. MECHANICAL		R.D. ROOF DRAIN		T&B TOP AND BOTTOM
	AGGR AGGREGATE		DP. DAMPPROOFING		GND. GROUND		M.F.R. MANUFACTURER		R.F. RUBBER FLOORING		T&G TONGUE AND GROOVE
	AHU AIR HANDLING UNIT		DR. DOOR		GRT. GROUT		M.M. MINIMUM		R.H. RIGHT HAND		T.O. TOP OF
	ALUM ALUMINUM		DTL. DETAIL		GWB GYPSUM WALLBOARD		M.M.C. MISCELLANEOUS		R.H.R. RIGHT HAND REVERSE		T.T. TOWEL BAR
	ANG ANGLE		ANG ANGLE		GYP. GYPSUM		M.M.B. MEMBRANE		R.L. RAIN LEADER		TOP TOILET COMP./SOLID PLASTIC
	ANOD ANODIZED		E		GYP. BD. GYPSUM BOARD		M.R. MIRROR		R.O. ROUGH OPENING		TEL TELEPHONE
	APPROX APPROXIMATE(LY)		E		H.B. HOSE BIB		M.TD. MOUNT(ED)		R.O.D. ROOF OVERFLOW DRAIN		TEMP TEMPERED (ATURE)
	ARCH ARCHITECTURAL		E		H.C. HOLLOW CORE		M.TL. METAL		R.R.T. RUBBER RUNNING TRACK		THK. THICK or THICKNESS
	ATTEN ATTENUATION		E		H.M. HOLLOW METAL		M.U.L. MULLION		R.T. RUBBER STAIR TREAD		THRU THROUGH
	AUTO AUTOMATIC		E		H.R. HAND RAIL		N		R.W.F. RESILIENT WOOD FLOORING		TOM TOP OF CONCRETE
	AVG AVERAGE		E		H.W. HOT WATER		N		RAD. RADIUS		TOS TOP OF STEEL
	AWG AMERICAN WIRE GAGE		E		H.D. HEAD		N		RAF RESILIENT ATHLETIC FLOORING		TPD TILED PAPER DISPENSER
	B		E		H.D.C.P. HANDICAP(PED)		N		RE-BAR. REINFORCING BAR		TS TRANSITION STRIP
	BD BOX DRAIN		E		H.E. EACH		N		RE. REFER TO or REFERENCE		TV TELEVISION
	BEAR BEARING		E		H.E.C. EXPANDED TO STRUCTURE		N		REC. RECESSED		TV TYPICAL
	BG BUMPER GUARD		E		H.E.W.C. ELECTRIC WATER COOLER		N		RECPT. RECEPTACLE		TZ. TERRAZZO
	BLDG BUILDING		E		H.E.A. EACH		N		REFRIG. REFRIGERATOR or REFRIGERATED		U
	BLK BLOCK		E		H.E.M. MODIFIED EPOXY CEMENT		N		REG. REGISTER		U
	BULK BLOCKING		E		H.E.L. ELEVATION		N		REINF. REINFORCING		U
	BM BEAM or BENCHMARK		E		H.E.L.E. ELECTRICAL ELEV. ELEVATOR		N		RESIL. RESILIENT		U
	BO BY OWNER or BOTTOM OF		E		H.E.M. ELASTOMERIC MEMBRANE		N		REV. REVISE, REVISED or REVISION		U
	BOF BY OWNER, FUTURE		E		H.E.M.E. EMER. EMERGENCY ENAM. ENAMEL		N		RFG. ROOFING		U
	BOT BOTTOM		E		H.E.M.E. EMER. EMERGENCY ENGR. ENGINEER		N		RFL. REFLECTED		U
	BSMT BASEMENT		E		H.E.M.E. EMER. EMERGENCY EQUIP. EQUIPMENT		N		RM. ROOM		U
	BTU(H) BRITISH THERMAL UNIT (HOUR)		E		H.E.M.E. EMER. EMERGENCY EST. ESTIMATED EXH. EXHAUST		N		RND ROUND		U
	C		E		H.E.M.E. EMER. EMERGENCY EXIST. EXISTING EXP. EXPANSION EXT. EXTERIOR		N		S		U
	C.B. CATCH BASIN		E		H.E.M.E. EMER. EMERGENCY F.A. FIRE ALARM		N		S		U
	C.C. CUBIC CURTAIN		E		H.E.M.E. EMER. EMERGENCY F.B.O. FURNITURE BY OWNER		N		S.A.P. SUSPENDED ACOUSTICAL PANELS		U
	C.F. CUBIC FEET		E		H.E.M.E. EMER. EMERGENCY F.D. FLOOR DRAIN		N		S.C. SOLID CORE		U
	C.G. CORNER GUARD		E		H.E.M.E. EMER. EMERGENCY F.F. FIRE EXTINGUISHER		N		S.C.D. SEAT COVER DISPENSER		U
	C.I. CAST IRON		E		H.E.M.E. EMER. EMERGENCY F.E.C. FIRE EXTINGUISHER CABINET		N		S.D. SOAP DISPENSER		U
	C.I.P. CAST IN PLACE		E		H.E.M.E. EMER. EMERGENCY F.F.P. FINISHED END PANEL		N		S.F. SQUARE FEET		U
	C.J. CONTROL JOINT		E		H.E.M.E. EMER. EMERGENCY F.L. FLOW LINE		N		S.N.C. SANITARY NAPKIN CABINET		U
	C.M.U. CONCRETE MASONRY UNIT		E		H.E.M.E. EMER. EMERGENCY F.O. FINISHED OPENING		N		S.N.D. SANITARY NAPKIN DISPENSER		U
	C.O. CLEAN OUT		E		H.E.M.E. EMER. EMERGENCY F.P. FIREPROOFING		N		S.N.R. SANITARY NAPKIN RECEPTACLE		U
	C.R. COLD ROLLED		E		H.E.M.E. EMER. EMERGENCY F.R. FIRE RESISTIVE		N		S.S. STAINLESS STEEL		U
	C.T. CERAMIC TILE		E		H.E.M.E. EMER. EMERGENCY F.R.P. FIBERGLASS REINFORCED PANEL		N		S.V. SHEET VINYL		U
	C.W. COLD WATER		E		H.E.M.E. EMER. EMERGENCY F.V.C. FIRE VALVE CABINET		N		S.W. SLAT WALL		U
	C.Y. CUBIC YARD		E		H.E.M.E. EMER. EMERGENCY F.W.C. FIRE WALL COVERING		N		S.A. SOLID SURFACE ACRYLIC		U
	CAB. CABINET		E		H.E.M.E. EMER. EMERGENCY F.A.C.P. FIRE ALARM CONTROL PANEL		N		SCHED. SCHEDULE		U
	CEM. CEMENT		E		H.E.M.E. EMER. EMERGENCY F.N. FINISH		N		SCT. SEALED CONCRETE		U
	CER. CERAMIC		E		H.E.M.E. EMER. EMERGENCY F.N.S. FIXTURE		N		SECT. SECTION		U
	CL CENTER LINE		E		H.E.M.E. EMER. EMERGENCY F.L. FLOOR		N		SH. SHELF		U
	CLG. CEILING		E		H.E.M.E. EMER. EMERGENCY F.L.B. LABORATORY LAB. LAMINATE		N		SHTG. SHEATHING		U
	CL.O. CLOSET		E		H.E.M.E. EMER. EMERGENCY F.L.V. LAVATORY		N		SHT. SHEET		U
	CLR. CLEAR		E		H.E.M.E. EMER. EMERGENCY F.L.# POUND		N		SHWR. SHOWER		U
	CNTR COUNTER		E		H.E.M.E. EMER. EMERGENCY F.F. FOOT / FEET		N		SIM. SIMILAR		U
	COL. COLUMN		E		H.E.M.E. EMER. EMERGENCY FTG. FOOTING		N		SP. SPECIFICATIONS		U
	CONC. CONCRETE		E		H.E.M.E. EMER. EMERGENCY L. LONG		N				U
	CONN. CONNECTION		E		H.E.M.E. EMER. EMERGENCY L.F. LINEAL FEET		N				U
	CONST. CONSTRUCTION		E		H.E.M.E. EMER. EMERGENCY L.H. LEFT HAND		N				U
	CONT. CONTINUOUS		E		H.E.M.E. EMER. EMERGENCY L.H.R. LEFT HAND REVERSE		N				U
	CORR. CORRIDOR		E		H.E.M.E. EMER. EMERGENCY L.L. LIVE LOAD		N				U
	CP. CARPET		E		H.E.M.E. EMER. EMERGENCY L.W.C. LIGHT WEIGHT CONCRETE		N				U

NO. DATE: TITLE/PURPOSE:

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

ISSUE DATE: 01/22/2024

DRAWN BY: OLC

REV'D BY: RMc

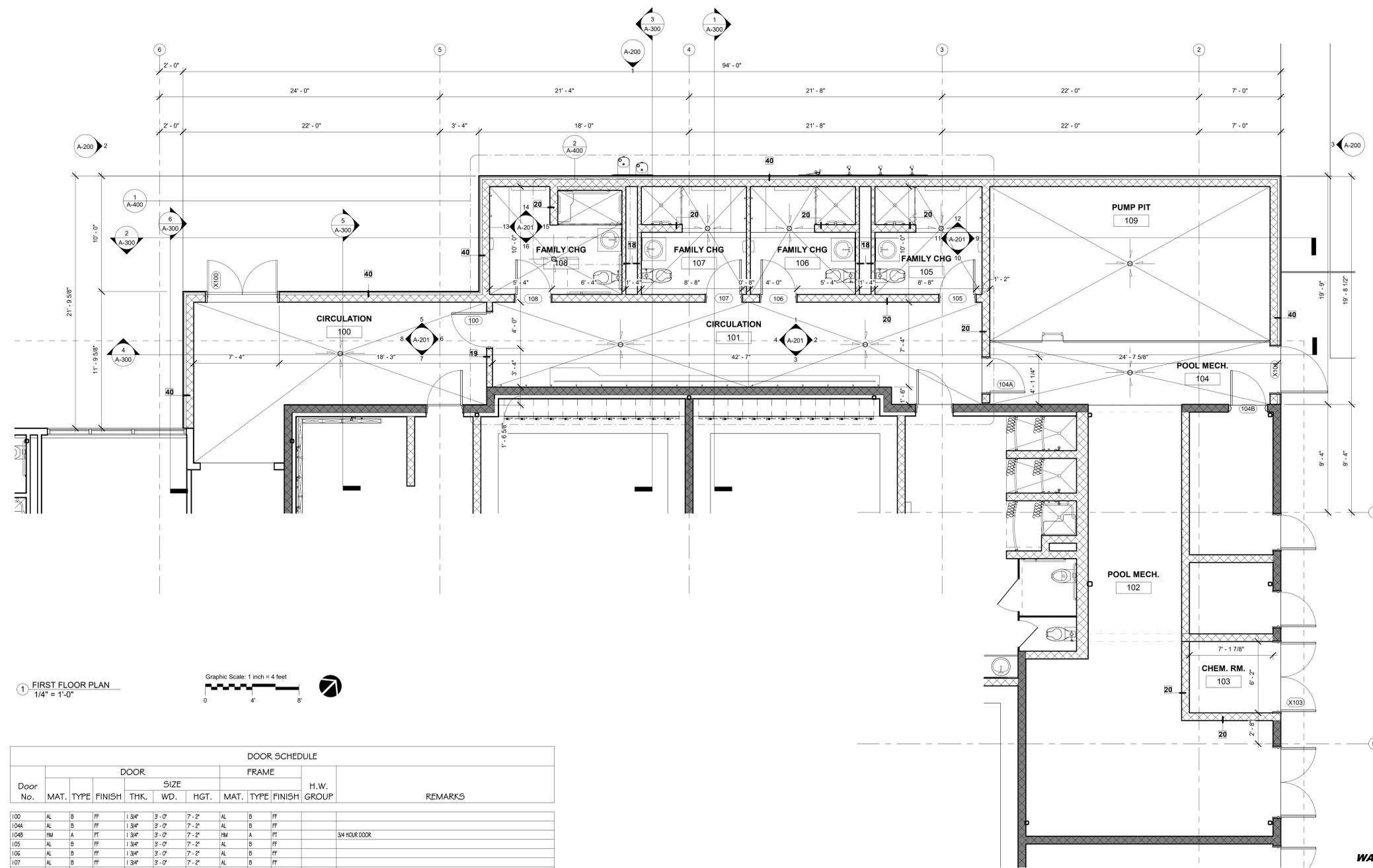
PROJECT #: 23079

TITLE: COVER SHEET

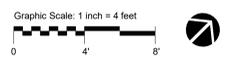
SHEET #: A-001

Mountain Recreation Eagle Pool
 1700 Bull Pasture Rd, Eagle, CO 81631

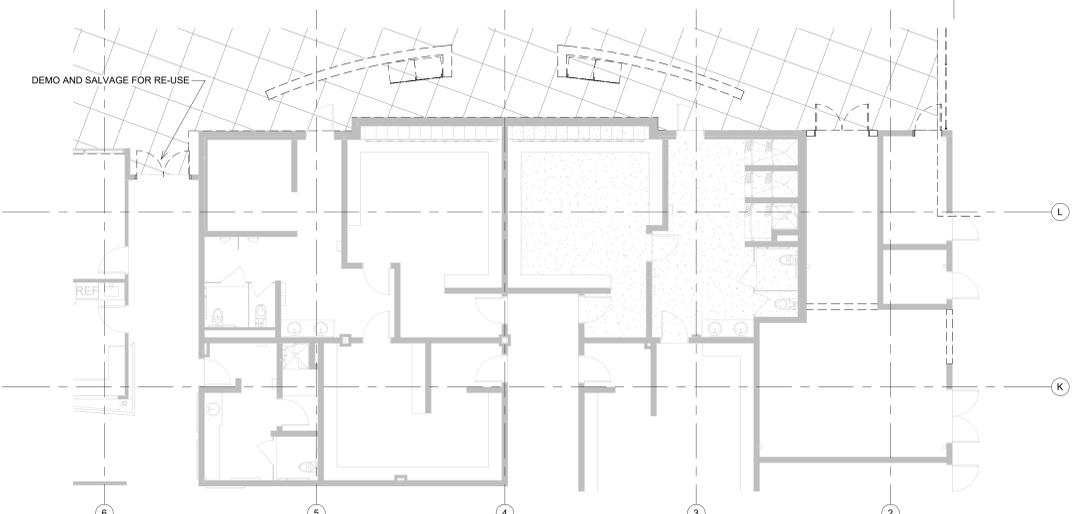
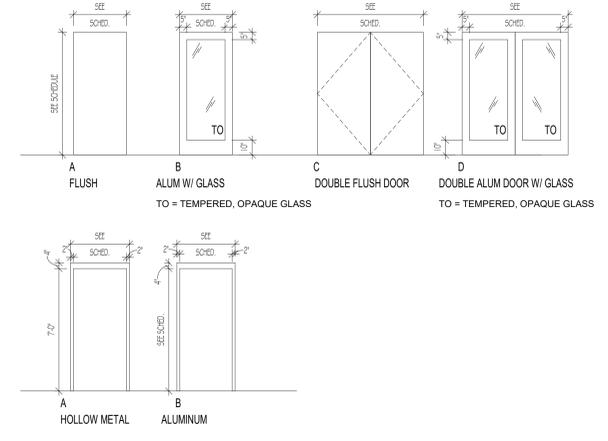
Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631



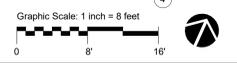
1 FIRST FLOOR PLAN
1/4" = 1'-0"



Door No.	DOOR			SIZE			FRAME			H.W. GROUP	REMARKS
	MAT.	TYPE	FINISH	THK.	WD.	HGT.	MAT.	TYPE	FINISH		
100	AL	B	FF	1 3/4"	3'-0"	7'-2"	AL	B	FF		
104A	AL	B	FF	1 3/4"	3'-0"	7'-2"	AL	B	FF		3/4 HOUR DOOR
104B	HM	A	PT	1 3/4"	3'-0"	7'-2"	HM	A	PT		
105	AL	B	FF	1 3/4"	3'-0"	7'-2"	AL	B	FF		
106	AL	B	FF	1 3/4"	3'-0"	7'-2"	AL	B	FF		
107	AL	B	FF	1 3/4"	3'-0"	7'-2"	AL	B	FF		
108	AL	B	FF	1 3/4"	3'-0"	7'-2"	AL	B	FF		
X100	AL	D	FF	1 1/2"	6'-4"	7'-2"	AL	B	FF		EXISTING RELOCATED DOOR
X103	HM	C	PT	1 3/4"	6'-0"	7'-2"	HM	A	PT		
X104	HM	A	PT	1 3/4"	4'-0"	7'-2"	HM	A	PT		



2 DEMOLITION FIRST FLOOR PLAN
1/8" = 1'-0"



WALL SCHEDULE

	WALL TYPE 18: 4" NOMINAL CONCRETE MASONRY UNIT
	WALL TYPE 19: 6" NOMINAL CONCRETE MASONRY UNIT
	WALL TYPE 20: 8" NOMINAL CONCRETE MASONRY UNIT
	WALL TYPE 40: EXTERIOR FIBER CEMENT SIDING 1/2" FIBER CEMENT SIDING 1/2" AIR SPACE 2" CONT. ROCK WOOL INSUL W/ CLIP AND RAIL WEATHER BARRIER 7 5/8" LOAD BEARING CMU INSULATED CAVITIES

WALL TYPES GENERAL NOTES

- PROVIDE FLUSH STRUCK JOINTS AT ALL EXPOSED PAINTED CMU.
- FILL ALL UNGROUTED CELLS WITH FOAM INSULATION IN ALL EXTERIOR WALLS

WALL TYPES AFFIXES

- PROVIDE GYPSUM BOARD FULL HEIGHT TO STRUCTURAL DECK ABOVE.
- CMU UP TO STRUCTURAL DECK ABOVE.
- A SINGLE COURSE OF CONCRETE BLOCK OR 8" CONCRETE CURB UNDER THE STUD PARTITION.
- WALL UP TO 7'-4" A.F.F.
- ALL UNGROUTED CELLS TO BE FILLED WITH EXPANDABLE FOAM INSULATION.
- RE STRUCTURE PLANS AND WALL SECTIONS FOR POOL FIT WALL CONFIGURATION.
- ONE HOUR RATED WALL. ALL PENETRATIONS TO BE CLUCKED WITH FIRE RATED CLUCKING.
- FIBER REINFORCED PLASTIC (FRP).

NO. DATE: TITLE/PURPOSE:

SCALE: As indicated

ISSUE DATE: 01/22/2024

DRAWN BY: OLCE

REV'D BY: RMc

PROJECT #: 23079

TITLE: FIRST FLOOR PLAN

SHEET #:

I:\2023\2023-493-EaglePoolReplacement\001-StructEng\H-Dwgs\Civil\PS-SheetSet\MREP-SitePlan-Alt1.dwg
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**NOT FOR
CONSTRUCTION**

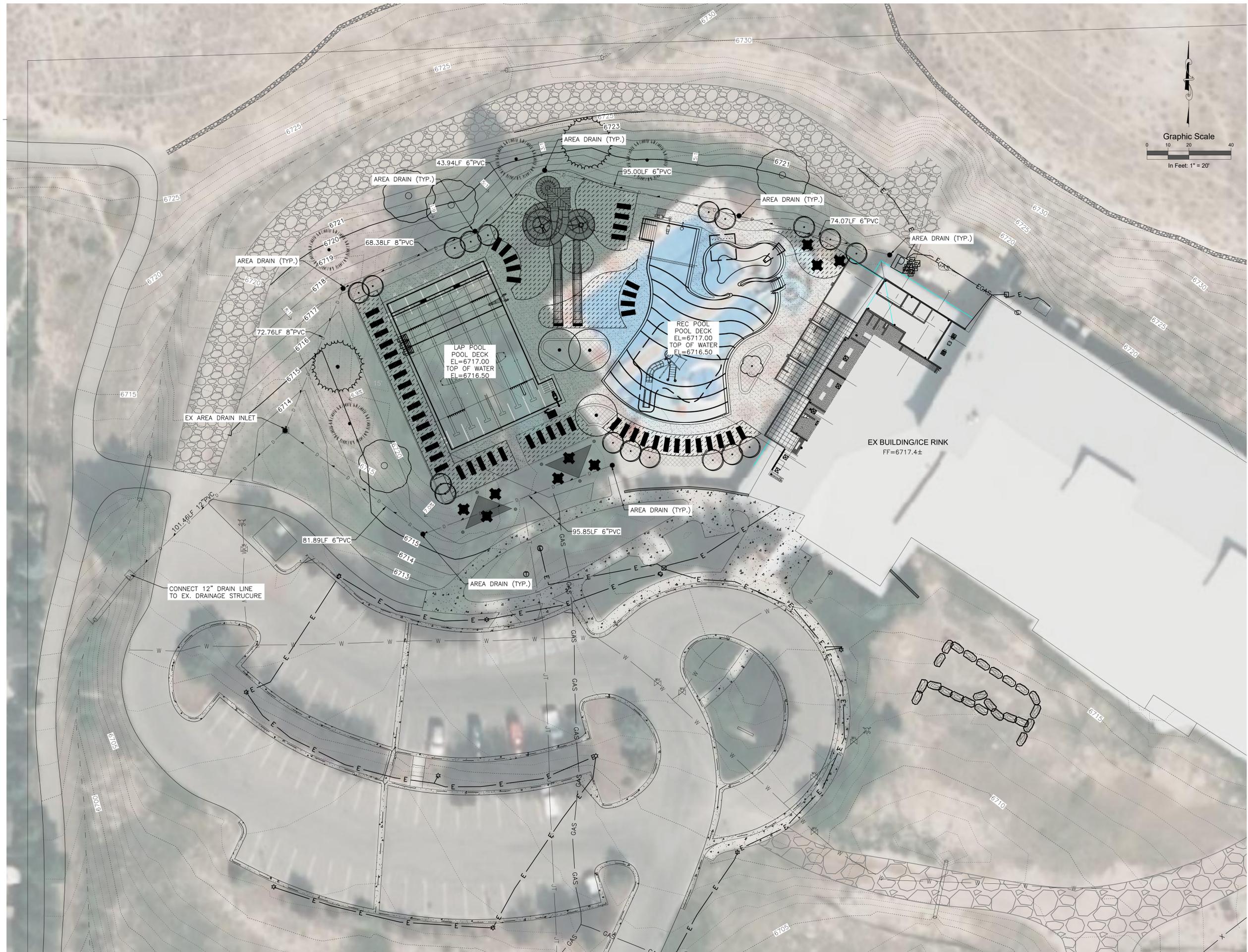
Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

NO.	DATE:	TITLE/PURPOSE:

SCALE: AS SHOWN
ISSUE DATE: 01/22/2024
PROJECT #: 2023-493.001
TITLE: SITE PLAN-ALT 1

SHEET #:
C-101

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**NOT FOR
CONSTRUCTION**

Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

NO.	DATE:	TITLE/PURPOSE:

SCALE: AS SHOWN
ISSUE DATE: 01/22/2024
PROJECT #: 2023-493.001
TITLE: SITEPLAN-ALT2

SHEET #:
C-102



2000 LAWRENCE ST
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Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

NOT FOR CONSTRUCTION

NO.	DATE:	TITLE/PURPOSE:
01/22/2024	100% DDs	
02/16/2024	EAGLE SITE PLAN APPLICATION	

SCALE: 1" = 10'-0"
ISSUE DATE: 02/16/2024
PROJECT #: 1250-01-3647
TITLE: LANDSCAPE PLAN: ALTERNATE

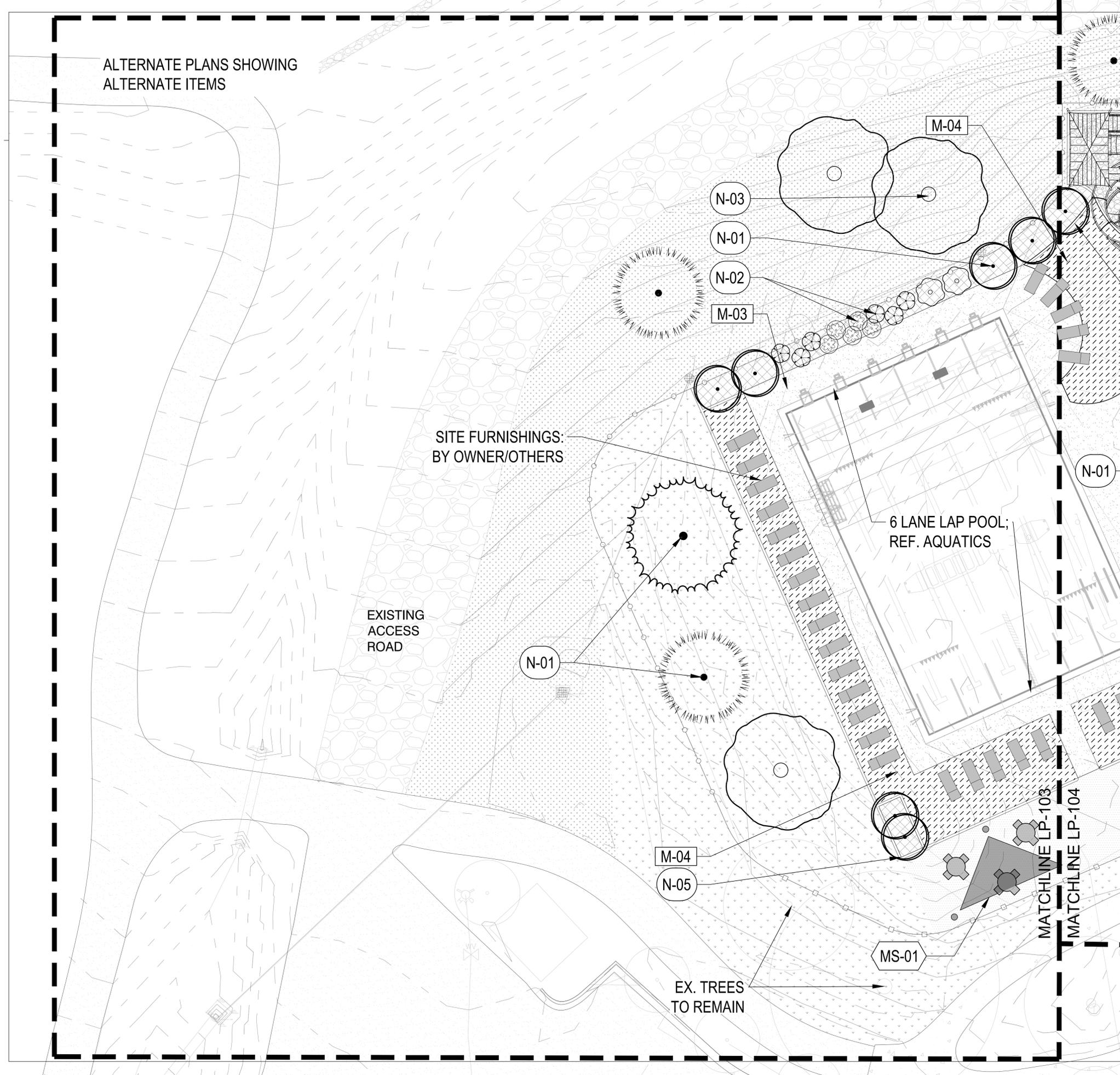
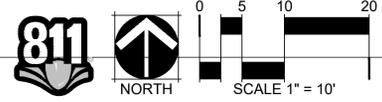
SHEET #:
LP-103

PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL NAME
TREES		
	CE OC	CELTIS OCCIDENTALIS
DECIDUOUS CANOPY TREES		
	PO AN	POPULUS ANGUSTIFOLIA
	PO ER	POPULUS TREMULOIDES ERECTA
EVERGREEN TREES		
	PI PU	PICEA PUNGENS
	PS ME	PSEUDOTSUGA MENZIESII
ORNAMENTAL TREES		
	AM AL	AMELANCHIER ALNIFOLIA
ORNAMENTAL GRASSES		
	CA KA	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER
DECIDUOUS SHRUBS		
	PO FR	POTENTILLA FRUTICOSA
	RI AU	RIBES AUREUM
EVERGREEN SHRUBS		
	AR UV	ARCTOSTAPHYLOS UVA-URSI
GROUND COVERS		
	SEE PBS	SEED PBSI LOW GROW NATIVE SEED MIX
	TUR BLU	TURF SOD BLUEGRASS

CODE	LANDSCAPE MATERIALS DESCRIPTION	QTY
M-01	CRUSHER FINES	1,646 SF
M-02	COBBLE MULCH	1,558 SF
M-03	CONCRETE	6,409 SF
M-04	SYNTHETIC TURF	4,480 SF
M-05	BOULDER RIP RAP	876 SF

CODE	NOTATION DESCRIPTION	QTY
N-01	TREE PLANTING	
N-02	SHRUB PLANTING	
N-03	TREE PLANTING ON SLOPE	
N-04	CONCRETE PLANTER SEATWALL	
N-05	6" CONCRETE CURB	
N-07	BENDA BOARD EDGER	
	6' CHAIN LINK BLACK FENCE	
	6' STEEL BLACK POOL FENCE	
	EXISTING GRADE	
	PROPOSED GRADE	



ALTERNATE PLANS SHOWING ALTERNATE ITEMS

SITE FURNISHINGS: BY OWNER/OTHERS

EXISTING ACCESS ROAD

6 LANE LAP POOL; REF. AQUATICS

EX. TREES TO REMAIN



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ALTERNATE PLANS SHOWING
ALTERNATE ITEMS

PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL NAME
TREES		
	CE OC	CELTIS OCCIDENTALIS
DECIDUOUS CANOPY TREES		
	PO AN	POPULUS ANGUSTIFOLIA
	PO ER	POPULUS TREMULOIDES ERECTA
EVERGREEN TREES		
	PI PU	PICEA PUNGENS
	PS ME	PSEUDOTSUGA MENZIESII
ORNAMENTAL TREES		
	AM AL	AMELANCHIER ALNIFOLIA
ORNAMENTAL GRASSES		
	CA KA	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'
DECIDUOUS SHRUBS		
	PO FR	POTENTILLA FRUTICOSA
	RI AU	RIBES AUREUM
EVERGREEN SHRUBS		
	AR UV	ARCTOSTAPHYLOS UVA-URSI
SYMBOL	CODE	BOTANICAL NAME
GROUND COVERS		
	SEE PBS	SEED PBSI LOW GROW NATIVE SEED MIX
	TUR BLU	TURF SOD BLUEGRASS

CODE	LANDSCAPE MATERIALS DESCRIPTION	QTY
M-01	CRUSHER FINES	1,646 SF
M-02	COBBLE MULCH	1,558 SF
M-03	CONCRETE	6,409 SF
M-04	SYNTHETIC TURF	4,480 SF
M-05	BOULDER RIP RAP	876 SF

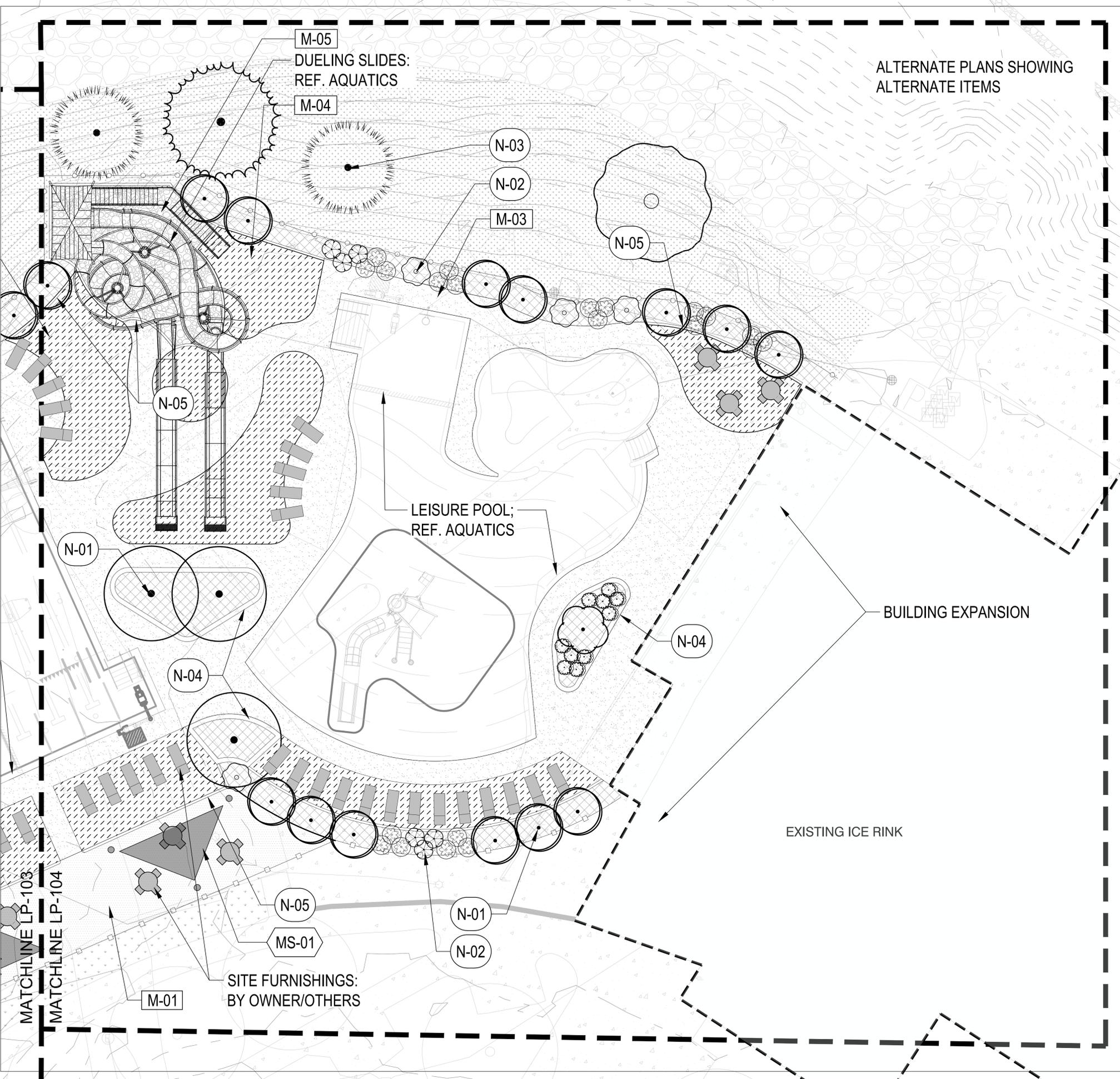
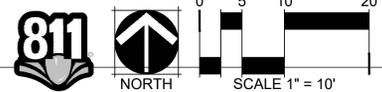
CODE	NOTATION DESCRIPTION	QTY
N-01	TREE PLANTING	
N-02	SHRUB PLANTING	
N-03	TREE PLANTING ON SLOPE	
N-04	CONCRETE PLANTER SEATWALL	
N-05	6" CONCRETE CURB	
N-07	BENDA BOARD EDGER	
	6" CHAIN LINK BLACK FENCE	
	6" STEEL BLACK POOL FENCE	
	EXISTING GRADE	
	PROPOSED GRADE	

NOT FOR CONSTRUCTION
Mountain Recreation Eagle Pool
 1700 Bull Pasture Rd, Eagle, CO 81631

NO.	DATE:	TITLE/PURPOSE:
01/22/2024	100% DDs	
02/16/2024	EAGLE SITE PLAN APPLICATION	

SCALE: 1" = 10'-0"
 ISSUE DATE: 02/16/2024
 PROJECT #: 1250-01-3647
 TITLE: LANDSCAPE PLAN; ALTERNATE

SHEET #:
LP-104





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Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

NO. DATE: TITLE/PURPOSE:

1 01/22/2024 100% DD

SCALE: AS NOTED
ISSUE DATE: JANUARY 22, 2024
PROJECT #: 23079
TITLE: POOL REFERENCE PLAN

SHEET #:
AQ000

DRAWING INDEX

SHEET	DESCRIPTION
AQ000	POOL REFERENCE PLAN
AQ100	LAP POOL PLAN & SECTIONS
AQ101	LAP POOL DETAILS
AQ102	LAP POOL DETAILS
AQ200	RECREATION POOL PLAN & SECTIONS
AQ201	RECREATION POOL DETAILS
AQ202	RECREATION POOL DETAILS
AQ500	POOL MECHANICAL NOTES & SCHEDULES
AQ501	POOL MECHANICAL ROOM PLAN & SECTIONS
AQ502	POOL MECHANICAL DETAILS
AQ503	POOL MECHANICAL DETAILS
AQ504	POOL MECHANICAL DETAILS
AQ505	POOL MECHANICAL DETAILS
AQ600	LAP POOL SYSTEMS SCHEMATIC
AQ601	RECREATION POOL SYSTEMS SCHEMATIC

DESIGN DATA

	UNITS	LAP POOL	RECREATION POOL
LENGTH	FT.	75'	VARIES
WIDTH	FT.	45'	VARIES
WATER SURFACE AREA	SQ. FT.	3,425	4,177
PERIMETER	FT.	250	362
VOLUME	GALLONS	130,825	65,432
RECIRCULATION SYSTEM			
POOL TURNOVER RATE	HOURS	3.96	1.62
RECIRCULATION RATE	GPM	550	675
SEWER CAPACITY	GPM	REFER TO PLUMBING	REFER TO PLUMBING
BATHER LOAD	PERSONS	142	417
MAXIMUM FACILITY BATHER LOAD	PERSONS	559	

GENERAL POOL NOTES

- ◆ DENOTES WATER DEPTH FROM WATER LEVEL.
- POOL FINISH MUST BE A PROPRIETARY AGGREGATE PLASTER WITH A 6" CERAMIC TILE BAND AND A CAST-IN-PLACE CONCRETE COPING WITH TILE DECK MARKINGS.
- ALL POOL FLOOR AREAS 18" AND SHALLOWER AND ALL STAIR TREADS MUST HAVE A SLIP RESISTANT FINISH.
- TYPICAL POOL DIMENSIONS SHOWN ARE FROM INSIDE FINISHED POOL WALL.
- REFER TO STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR ALL DIMENSIONS RELATING TO THE THICKNESS OF THE POOL SHELL AND CONCRETE CURING METHODS.
- THE JUNCTION BETWEEN THE SWIMMING POOL WALL AND THE FLOOR MUST BE COVERED WITH A MAXIMUM 6" RADIUS.
- DEPTH MARKERS AND WARNING SIGNS ARE SHOWN IN APPROXIMATE LOCATIONS. DEPTH MARKERS AND WARNING SIGNS MUST NOT EXCEED 25'-0" APART FROM EACH OTHER, AND MUST BE PLACED AT EVEN FOOT INTERVALS PER LOCAL CODE.
- ALL PROPRIETARY NAMES MENTIONED ARE TO DESIGNATE PERFORMANCE STANDARDS. EQUIVALENT PRODUCTS MUST BE SUBMITTED FOR APPROVAL.
- SLIP RESISTANT DECK FINISH REQUIRED. REFER TO ARCHITECT.
- REFER TO PLUMBING FOR DECK DRAINS AND HOSE BIBBS.
- ALL SURFACE WATER MUST DRAIN AWAY FROM THE POOL.
- REFER TO ELECTRICAL FOR GFI OUTLETS ON POOL DECK.
- ELECTRICAL INSPECTOR MUST APPROVE INSTALLATION OF BONDING GRID FOR POOL REINFORCING AND ALL POOL EMBEDS PRIOR TO PLACEMENT OF CONCRETE.
- NO GROUND WATER MUST BE ALLOWED TO RISE ABOVE ANY PORTION OF THE POOL BOTTOM DURING CONSTRUCTION.
- COMPETITION POOL HAS BEEN DESIGNED TO BE IN COMPLIANCE WITH THE RULES AND REGULATIONS OF USA SWIMMING (USA-S).
- REFER TO SWIMMING POOL SPECIFICATIONS FOR COMPETITION RACE COURSE TOLERANCES.
- ALL METALLIC PORTIONS OF PLAY FEATURE MUST BE EPOXY COATED STAINLESS STEEL.
- ALL POOL REINFORCING STEEL METAL FITTINGS, EQUIPMENT WITHIN 5'-0" OF POOL EDGE AND ANY METAL PARTS OF POOL EQUIPMENT IN CONTACT WITH POOL RECIRCULATION SYSTEM MUST BE BONDED PER NEC 680. REFER.
- IT IS RECOMMENDED THAT ZONE EVALUATIONS ACCORDING TO THE AMERICAN RED CROSS OR A SIMILAR APPLICABLE LIFEGUARD AGENCY ARE CONDUCTED PRIOR TO OPERATING THE FACILITY AND REGULARLY ACCORDING TO AGENCY GUIDELINES. ZONE EVALUATIONS ARE NECESSARY TO CONFIRM APPROPRIATE LIFEGUARD PLACEMENT AND ZONE COVERAGE.
- CONTRACTOR TO PROVIDE CHEMICAL QUANTITIES PER CONTRACTOR SUPPLIED POOL CHEMICAL SCHEDULE AFTER INITIAL WATER BALANCE IS REACHED PRIOR TO OWNER TURNOVER.
- THE POOL(S), SPA(S), SURGE TANK(S), AND GUTTER SYSTEM(S) 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 TO SPECIFICATIONS. REFER.

CONTRACTOR SUPPLIED POOL CHEMICALS

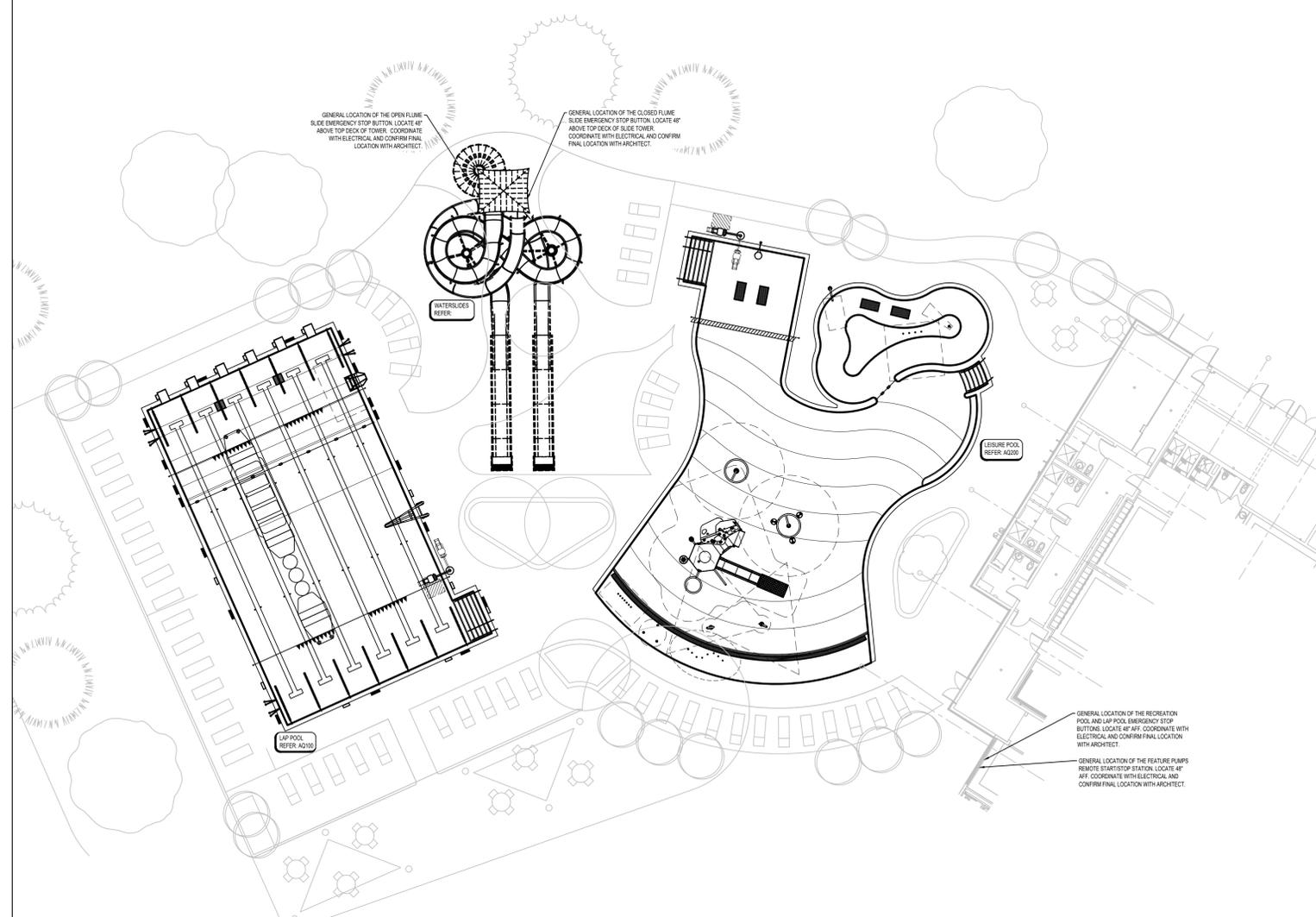
DESCRIPTION	AMOUNT
CALCIUM HYPOCHLORITE	FULL FEEDER(S) + 300 LBS
MURIATIC ACID	FULL CARBOY(S) + 30 GALLONS
CO2	FULL BULK TANK(S) - 750 LBS
SODIUM BICARBONATE	200 LBS
CALCIUM CARBONATE	100 LBS
SODIUM THIOSULFATE	50 LBS

DEFERRED APPROVAL NOTICE

INSTALLATION OF THE WATERSLIDE AND ASSOCIATED FEATURE FOOTINGS MUST NOT COMMENCE UNTIL CONTRACTOR PROVIDES DETAILED DRAWINGS, SPECIFICATIONS BEARING THE SEAL, SIGNATURE, AND DATE OF A LICENSED PROFESSIONAL ENGINEER TO BE REVIEWED AND APPROVED BY THE DEPARTMENT OF BUILDING AND SAFETY OR THE DEPARTMENT HAVING JURISDICTION. CONTRACTOR MUST BE RESPONSIBLE FOR PERMITTING PROCESS AND ALL COSTS ASSOCIATED WITH OBTAINING PERMITTING APPROVAL.

POOL ALTERNATES

- ALTERNATE #1: WATERSLIDE TOWER**
BASE BID: PROVIDE AND INSTALL CAPPED PIPING TO/FROM THE PLANNED WATERSLIDE TOWER LOCATION, AND PROVIDE SPACE FOR FUTURE WATERSLIDE PUMPS. DO NOT PROVIDE WATERSLIDES.
ALTERNATE: PROVIDE AND INSTALL PIPING, PUMPS, WATERSLIDE TOWER, RUNOUT PAD, AND RUNOUT SUMPS INDICATED ON THE DRAWINGS.
- ALTERNATE #2: PLAY STRUCTURE**
BASE BID: DO NOT PROVIDE PLAY STRUCTURE AT THE RECREATION POOL.
ALTERNATE: PROVIDE AND INSTALL PLAY STRUCTURE AND ALL ASSOCIATED ANCHORS, FOOTINGS, AND PIPING INDICATED ON THE DRAWINGS.
- ALTERNATE #3: ZIPLINE FEATURE**
BASE BID: DO NOT PROVIDE ZIPLINE FEATURE AT THE LAP POOL.
ALTERNATE: PROVIDE AND INSTALL ZIPLINE FEATURE AT THE LAP POOL WITH ALL REQUIRED ANCHORS AND FOOTINGS INDICATED ON THE DRAWINGS.
- ALTERNATE #4: CLIMBING WALL FEATURE**
BASE BID: DO NOT PROVIDE CLIMBING WALL FEATURE AT THE LAP POOL.
ALTERNATE: PROVIDE AND INSTALL CLIMBING WALL FEATURE AT THE LAP POOL WITH ALL REQUIRED ANCHORS AND FOOTINGS INDICATED ON THE DRAWINGS.
- ALTERNATE #5: FLOATING OBSTACLE COURSE**
BASE BID: DO NOT PROVIDE FLOATING OBSTACLE COURSE AT THE LAP POOL.
ALTERNATE: PROVIDE WIBIT FEATURE AT THE LAP POOL AS INDICATED ON THE DRAWINGS.
- ALTERNATE #6: SPRAY FEATURES**
BASE BID: DO NOT PROVIDE SPRAY FEATURES AT THE RECREATION POOL. PROVIDE AND INSTALL ROUGH-IN PIPING AND MODULAR ANCHORAGE FOR FUTURE FEATURES.
ALTERNATE: PROVIDE AND INSTALL SPRAY FEATURES AND ALL ASSOCIATED ANCHORS, FOOTINGS, AND PIPING INDICATED ON THE DRAWINGS.
- ALTERNATE #7: WATER BASKETBALL AND VOLLEYBALL**
BASE BID: PROVIDE AND INSTALL ANCHORS FOR FUTURE WATER BASKETBALL AND VOLLEYBALL FEATURES.
ALTERNATE: PROVIDE AND INSTALL WATER BASKETBALL AND WATER VOLLEYBALL FEATURES AS INDICATED ON THE DRAWINGS.
- ALTERNATE #8: WINTER POOL SAFETY COVERS**
BASE BID: DO NOT PROVIDE WINTER SAFETY COVERS FOR THE POOLS.
ALTERNATE: PROVIDE AND INSTALL WINTER SAFETY COVERS AND ALL ASSOCIATED ANCHORS.
- ALTERNATE #9: THERMAL POOL COVERS**
BASE BID: DO NOT PROVIDE THERMAL POOL COVERS FOR THE POOLS.
ALTERNATE: PROVIDE THERMAL POOL COVERS AND DECK REELS FOR THE POOLS.





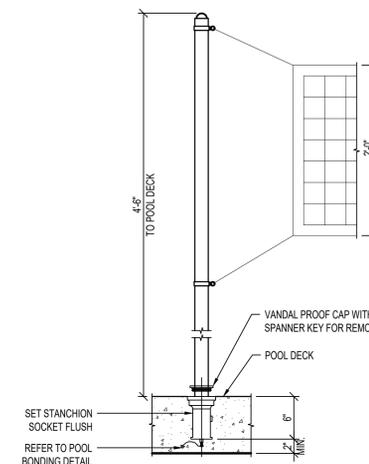
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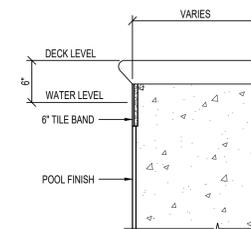
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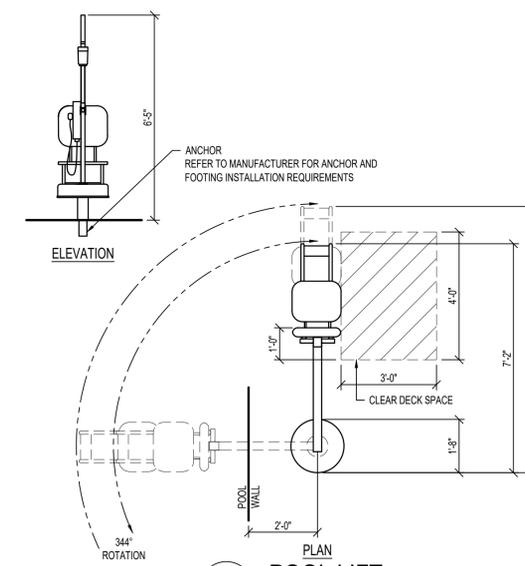
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1 WATER VOLLEYBALL STANCHION POST & ANCHOR
1 1/2" = 1'-0"



2 CURRENT CHANNEL ISLAND
1" = 1'-0"



3 POOL LIFT
3/8" = 1'-0"

NO. DATE: TITLE/PURPOSE:

1 01/22/2024 100% DD

SCALE: AS NOTED
ISSUE DATE: JANUARY 22, 2024
PROJECT #: 23079
TITLE: LEISURE POOL DETAILS

SHEET #:

AQ202



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PUMP SCHEDULE

ID	DESCRIPTION	MANUFACTURER	MODEL	SIZE	GPM	TDH	HP	NPSHR	HAIR & LINT		NOTES
									MAKE	SIZE	
PP1	LAP POOL RECIRCULATION PUMP REFER.	GRISWOLD 850 SERIES	6X5-14T	6"X5"	550	85	25	5.91	MERMADE	8"X6"	1,2,3,4, 6,9
PP2	OPEN FLUME WATERSLIDE PUMP REFER.	GRISWOLD 850 SERIES	8X6-10	8"X6"	1,000	55	20	8.43	MERMADE	10"X8"	1,2,3,4, 5,7,8,9
PP3	CLOSED FLUME WATERSLIDE PUMP REFER.	GRISWOLD 850 SERIES	5X4-10	5"X4"	500	55	10	6.10	MERMADE	8"X5"	1,2,3,4, 5,7,8,9
PP4	RECREATION POOL CURRENT CHANNEL PROPULSION PUMP REFER.	GRISWOLD 850 SERIES	8X6-10	8"X6"	775	40	15	8.02	MERMADE	10"X8"	1,2,3,4, 7,8,9
PP5	RECREATION POOL RECIRCULATION PUMP REFER.	GRISWOLD 850 SERIES	6X5-14T	6"X5"	675	85	25	6.01	MERMADE	8"X6"	1,2,3,4, 6,9
PP6	RECREATION SPRAY FEATURE PUMP REFER.	GRISWOLD 850 SERIES	4X3-10	4"X3"	225	65	7.5	6.85	MERMADE	6"X4"	1,2,3,4, 7,8,9

NOTE:
1. THE MANUFACTURER INDICATED IS BASIS OF DESIGN.
2. POOL PUMPS AND STRAINERS MUST BE INSTALLED ON HOUSEKEEPING PADS.
3. 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 / 0-60 PSI.
4. PROVIDE WITH 460 VOLT, 3 PHASE, 60HZ, 1750 RPM MOTOR.
5. PROVIDE WITH CHECK VALVE.
6. PROVIDE VARIABLE FREQUENCY DRIVE AND BYPASS.
7. PROVIDE VARIABLE FREQUENCY DRIVE.
8. PROVIDE REMOTE PUMP START.
9. PROVIDE EMERGENCY STOP.

CHEMICAL FEED SCHEDULE

ID	DESCRIPTION	MANUFACTURER	MODEL	TUBE #	HP	FLOW
CF1	LAP POOL CHLORINATION BOOSTER PUMP REFER.	PULSAR	PRECISION	4	1	189 LBS/DAY
CF2	LAP POOL ACID FEED PUMP REFER.	STENNER	45M3	3	FRAC	22 GAL/DAY
CF3	LAP POOL CO2 FEED REFER.	BECS	BECSYSC02	N/A	N/A	20-200 SCFH
CF4	RECREATION POOL CHLORINATION BOOSTER PUMP REFER.	PULSAR	PRECISION	4	1	189 LBS/DAY
CF5	RECREATION POOL ACID FEED PUMP REFER.	STENNER	45M3	3	FRAC	22 GAL/DAY
CF6	RECREATION POOL CO2 FEED REFER.	BECS	BECSYSC02	N/A	N/A	20-200 SCFH

NOTE:
1. THE MANUFACTURER INDICATED IS BASIS OF DESIGN.
2. PROVIDE WITH 120 VOLT, SINGLE PHASE, ADJUSTABLE FEED.
3. INTERLOCK WITH POOL RECIRCULATION PUMP.

FILL SCHEDULE

ID	POOL	FRESH WATER SUPPLY GPM (MIN.)	FILL FUNNEL SIZE	REDUCER SIZE	SPLASH COLLAR SIZE	FILL LINE SIZE TO POOL	DESIGN FILL TIME (HOURS)
L1	LAP	91	10"	10"X6"	8"	6"	24
L2	RECREATION	91	10"	10"X6"	8"	6"	12

NOTE:
REFER: XXXXXX

ELECTRONIC FLOCCULATION SYSTEM SCHEDULE

ID	POOL	MANUFACTURER	MODEL	NOMINAL PIPE SIZE	INPUT VOLTAGE	POWER CABLE LENGTH	SIGNAL CABLE LENGTH
C1	LAP	CLEAR-FLOW	CF-600	6"	100-240 VAC	15 FT	33 FT
C2	RECREATION	CLEAR-FLOW	CF-800	8"	100-240 VAC	15 FT	33 FT

UV TREATMENT SYSTEMS SCHEDULE

ID	POOL	MODEL NUMBER	US EPA 3-LOG AND CALCULATED 40MIJ/CM2 (GPM)	LAMPS	AMPS (A)	VOLTAGE (V) WITH BREAKER SIZE (50 OR 60 HZ)
U1	RECREATION	SAG-480-APVC-CR	387	4	4.8	120 V (1Ø)-10A

NOTE:
1. THE BASIS OF DESIGN MANUFACTURER IS CHLOROKING.
2. INTERLOCK UV SYSTEM WITH FEATURE PUMP.
3. REFER: XXXXXX

GENERAL POOL MECHANICAL ROOM NOTES

- EQUIPMENT ROOM FLOOR AND PUMP PIT FLOOR MUST SLOPE 1/4" TO 1/2" PER FOOT TO FLOOR DRAINS OR SUMP PIT. REFER TO PLUMBING.
 - PROVIDE HOSE BIBBS FOR HOUSE CLEANING PURPOSES. REFER BUILDING MECHANICAL DRAWINGS.
 - VENTILATION OF POOL MECHANICAL ROOM AND CHEMICAL STORAGE AREAS PER LOCAL, STATE AND INTERNATIONAL MECHANICAL CODE MINIMUM. REFER TO MECHANICAL.
 - 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.
 - REFER TO MECHANICAL FOR HVAC SYSTEMS DESIGN.
 - REFER TO ARCHITECTURAL DRAWINGS FOR LADDER RUNGS, SAFETY CHAIN, AND REMOVABLE RAILING AT PUMP PIT.
- PIPING AND VALVING
- MINIMUM 7'-0" CLEARANCE BENEATH ALL OVERHEAD PIPING.
 - PROVIDE AND SUPPORT OVERHEAD AND VERTICAL PIPING PER SPECIFICATION REQUIREMENTS.
 - LABEL AND IDENTIFY ALL PIPING IN COMPLIANCE WITH THE SPECIFICATIONS.
 - 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.
 - REFER TO DETAILS X-X ON DRAWING AQX-X FOR INSTALLATION OF PIPE SUPPORTS.
 - ALL VALVE HARDWARE MUST BE 316L STAINLESS STEEL AND MEET ANSI HARDWARE INSTALLATION GUIDELINES. REFER:
 - ALL BALANCING VALVES AND BUTTERFLY VALVES MUST BE PROVIDED WITH POSITION INDICATORS AND MAXIMUM ADJUSTABLE STOPS (MEMORY STOPS).
 - ALL VALVES MUST BE INSTALLED SO THAT THE VALVE REMAINS IN SERVICE WHEN THE EQUIPMENT OR PIPING ON THE EQUIPMENT SIDE OF THE VALVE IS REMOVED.
 - PROVIDE CHAIN WHEEL OPERATORS FOR ALL VALVES IN EQUIPMENT ROOMS MOUNTED GREATER THAN 7'-0" ABOVE FINISHED FLOOR. CHAIN MUST EXTEND TO 7'-0" ABOVE FINISHED FLOOR LEVEL.
 - ALL PIPING ROUTED THROUGH THE CHEMICAL ROOM WALLS INTO THE MAIN MECHANICAL ROOM MUST BE PROPERLY SEALED AND FIREPROOFED PER THE FIRE RATING OF THE ROOM. REFER TO ARCHITECT.
- CHEMICAL TREATMENT
- CHEMICAL FEED REQUIREMENTS - REFER TO THE POOL SYSTEMS SCHEMATIC(S) ON AQ--.
 - INTERLOCK POOL RECIRCULATION PUMP(S) WITH ITS CORRESPONDING WATER CHEMISTRY CONTROLLER, CHEMICAL FEED PUMP(S) AND HEATER(S).
 - PROVIDE SIGNAGE ON CHEMICAL ROOM DOORS IN COMPLIANCE WITH THE STATE FIRE CODE. REFER.
 - 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.
 - PROVIDE ETHERNET CONNECTION FOR REMOTE ACCESS TO ALL WATER CHEMISTRY CONTROLLERS AND COORDINATE INTERFACE TO BUILDING MANAGEMENT SYSTEM. REFER TO ELECTRICAL AND/OR CONTROLS CONSULTANT.
 - 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.
- ELECTRICAL
- GFCIS PROVIDED AT OUTLETS. REFER TO ELECTRICAL.
 - POOL EQUIPMENT ROOM AND CHEMICAL STORAGE AREAS MUST BE PROVIDED WITH ARTIFICIAL LIGHTING SUFFICIENT TO ILLUMINATE ALL EQUIPMENT AND SUPPLIES. REFER TO ELECTRICAL.
 - CONDUIT MUST BE ROUTED OVERHEAD OR BELOW GRADE.
 - PROVIDE ELECTRICAL CONNECTION TO POOL HEATERS. REFER TO ELECTRICAL.

FILTER SCHEDULE

ID	POOL	MANUFACTURER	FILTER MODEL	QTY.	FILTRATION TYPE	MAXIMUM FILTRATION RATE (GPM/SQ. FT.)	DESIGN FILTRATION RATE (GPM/SQ. FT.)	REQUIRED FILTRATION AREA (SQ. FT.)	DESIGN FILTRATION AREA (SQ. FT.)	FILTER BACKWASH RATE (GPM/SQ. FT.)	BACKWASH FLOW RATE PER FILTER (GPM)
F1	LAP	PADDOCK	HZF-42-48	2	HRS	12.0	11.5	45.8	48.0	15.0	360
F2	RECREATION	PADDOCK	HZF-42-60	2	HRS	12.0	11.3	56.3	60.0	15.0	450

NOTE:
1. BACKWASH METHOD MUST BE MANUAL.
2. 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.
4. VALVES MUST BE PROVIDED TO BACKWASH EACH FILTER VESSEL INDEPENDENTLY.
5. THE BACKWASH PIPING MUST TERMINATE NO CLOSER THAN 6" ABOVE THE FLOOD RIM OF THE BACKWASH FUNNEL 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.
7. 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.
8. PROVIDE 1" DIAMETER, SCHEDULE 80 PIPE FROM THE AUTOMATIC AIR VENT ON EACH OF THE FILTER VESSEL TO THE NEAREST FLOOR DRAIN OR BACKWASH CATCH BASIN. THE VENT PIPE MUST BE SLOPED TO THE DRAIN.
9. VESSEL MUST BE BACKWASHED AT 15.0 GPM/SF.

HEATER SCHEDULE

ID	POOL	MAKE	MODEL	QTY.	BOILER EFF (%)	TOTAL INPUT (MBH)	AIR INLET SIZE (INCHES)	PIPE SIZE (IN/OUT)	VENT SIZE (INCH)	ELECTRICAL DATA (2 REQUIRED CONNECTIONS PER HEATER)			
										V	PH	HZ	AMP
H1	LAP	LOCHINVAR	CPN1442	1	85	1,440	12"	2.5"	12"	120	1	60	30A
H2	RECREATION	LOCHINVAR	CPN1262	2	85	2,520	12"	2.5"	12"	120	1	60	20A

NOTE:
1. THE BASIS OF DESIGN MANUFACTURER IS LOCHINVAR. ALTERNATE MANUFACTURER: RAYPACK OR APPROVED EQUAL.
2. HEATERS MUST BE INSTALLED ON HOUSEKEEPING PADS.
3. REFER: XXXXXX
4. EACH GAS-FIRED POOL HEATER SHALL BE EQUIPPED WITH AN EMERGENCY STOP SWITCH OR BUTTON LOCATED AT THE ENTRANCE TO THE POOL MECHANICAL ROOM. REFER TO ELECTRICAL.

NO. DATE: TITLE/PURPOSE:

1 01/22/2024 100% DD

SCALE: AS NOTED

ISSUE DATE: JANUARY 22, 2024

PROJECT #: 23079

TITLE: POOL MECHANICAL ROOM
NOTES & SCHEDULES

SHEET #:

AQ500



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CONSTRUCTION

Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

NO. DATE: TITLE/PURPOSE:

1 01/22/2024 100% DD

SCALE: AS NOTED
ISSUE DATE: JANUARY 22, 2024
PROJECT #: 23079
TITLE: POOL MECHANICAL ROOM
PLAN

SHEET #:

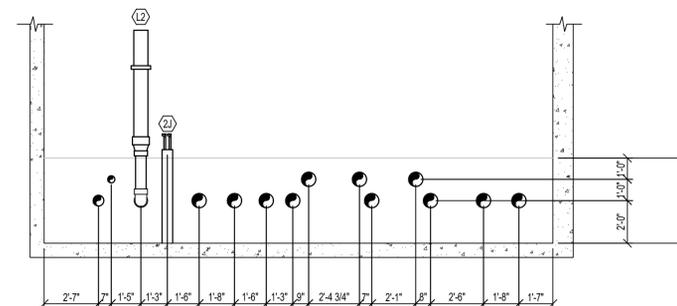
AQ501

PIPE SCHEDULE

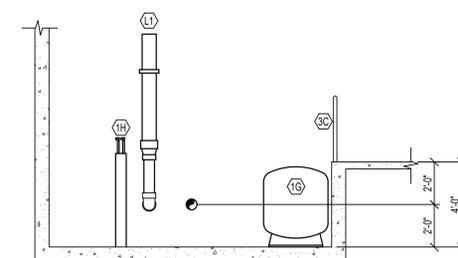
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P1	
P2	
P3	
P4	
P5	
P6	
P7	
P8	
P9	
P10	

EQUIPMENT SCHEDULE

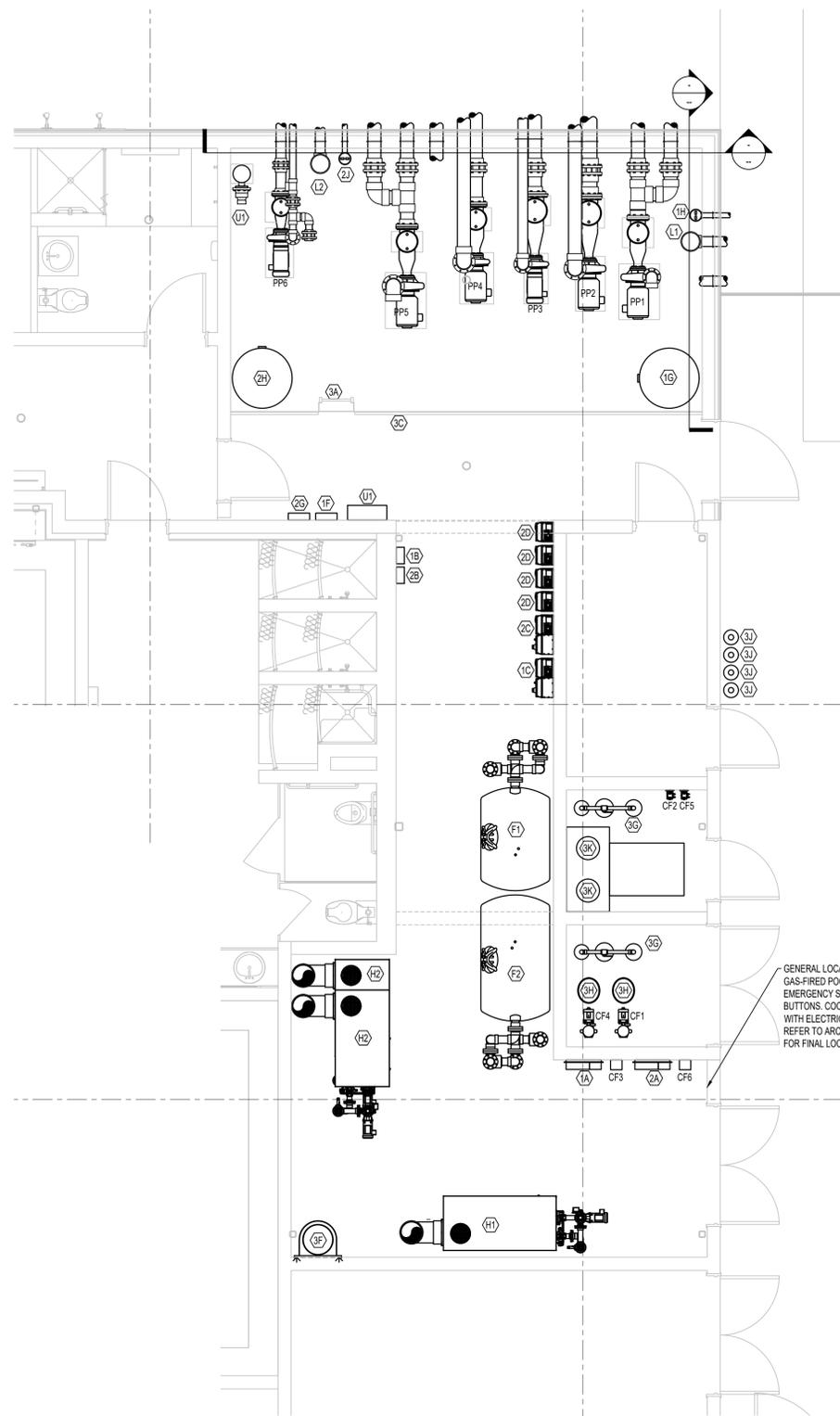
ID	ITEM
LAP POOL	
1A	CHEMICAL CONTROLLER REFER.
1B	WATER LEVEL CONTROLLER REFER.
1C	VARIABLE FREQUENCY DRIVE AND BYPASS PANEL
1D	FLOW METER SENSOR REFER.
1E	IMPACT FLOW METER REFER.
1F	FLOW TECH REFER.
1G	SPHAGNUM MOSS REFER.
1H	WATER LEVEL CONTROLLER STATIC WELL REFER.
RECREATION POOL	
2A	CHEMICAL CONTROLLER REFER.
2B	WATER LEVEL CONTROLLER REFER.
2C	VARIABLE FREQUENCY DRIVE AND BYPASS PANEL
2D	VARIABLE FREQUENCY DRIVE
2E	FLOW METER SENSOR REFER.
2F	IMPACT FLOW METER REFER.
2G	FLOW TECH REFER.
2H	SPHAGNUM MOSS REFER.
2J	WATER LEVEL CONTROLLER STATIC WELL REFER.
COMBINED	
3A	LADDER RUNGS
3B	SAFETY CHAIN
3C	REMOVABLE RAILING
3D	LINK SEAL (TYPICAL) REFER.
3E	HARD PIPE TO DRAIN
3F	BACKWASH FUNNEL REFER.
3G	EYE WASH STATION REFER TO PLUMBING
3H	CHLORINE SYSTEM REFER.
3J	CO ₂ CYLINDER REFER.
3K	ACID SYSTEM REFER.



2 POOL MECHANICAL SECTION
AQ501 1/4" = 1'-0"

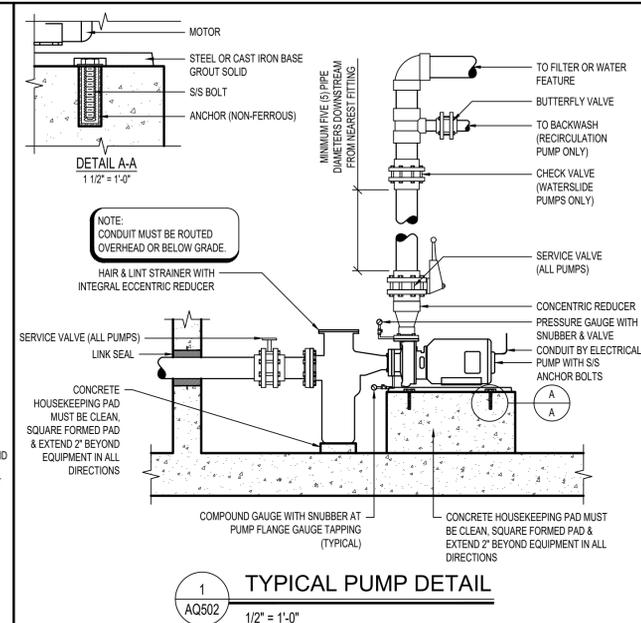


3 POOL MECHANICAL SECTION
AQ501 1/4" = 1'-0"

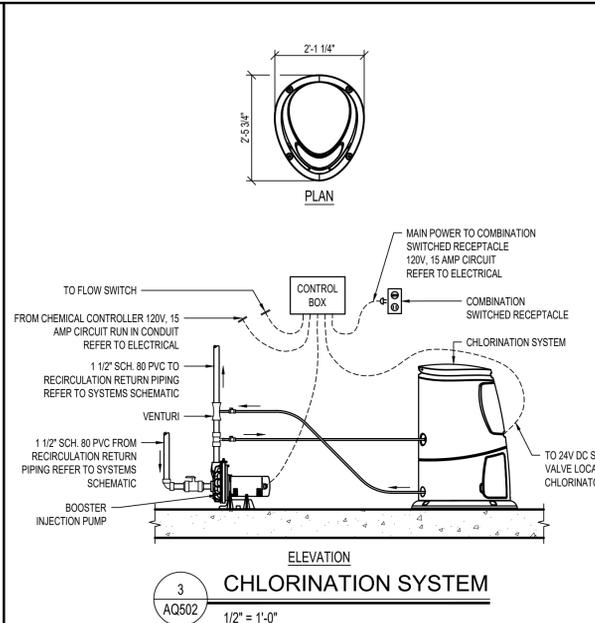


1 POOL MECHANICAL ROOM
AQ501 1/4" = 1'-0"

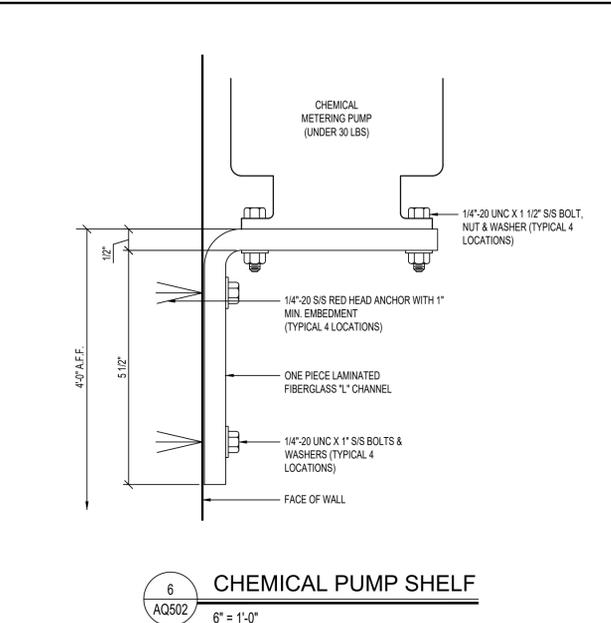
GENERAL LOCATION OF GAS-FIRED POOL HEATER EMERGENCY STOP BUTTONS. COORDINATE WITH ELECTRICAL AND REFER TO ARCHITECT FOR FINAL LOCATION.



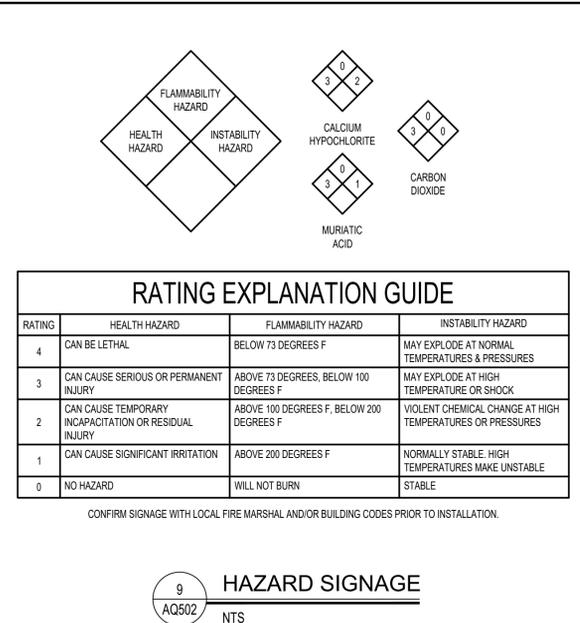
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AQ502
1/2" = 1'-0"



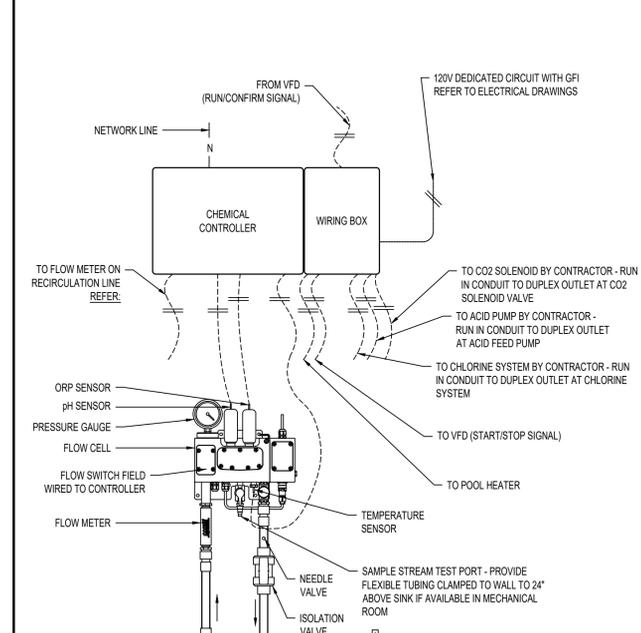
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AQ502
1/2" = 1'-0"



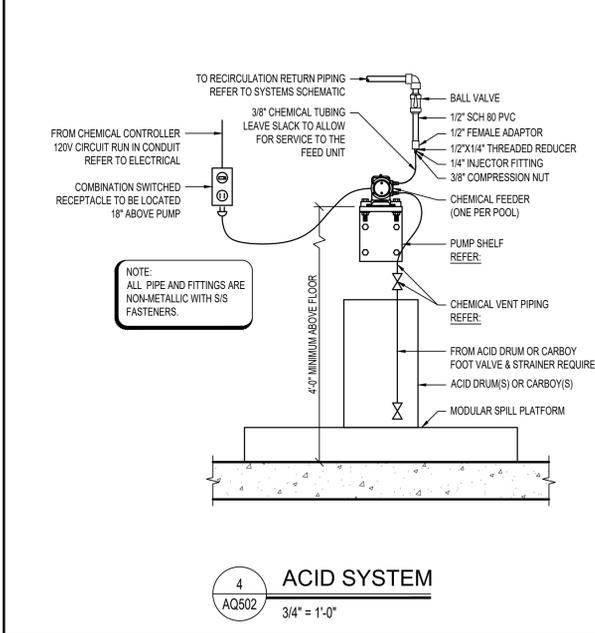
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AQ502
6" = 1'-0"



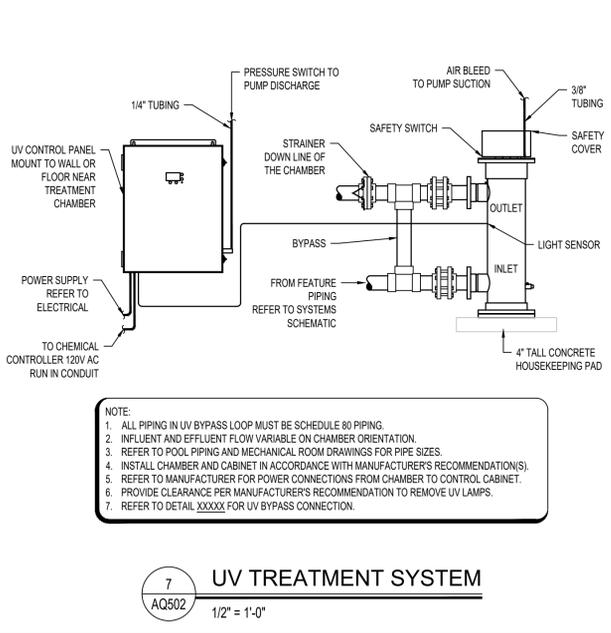
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AQ502
HAZARD SIGNAGE
NTS



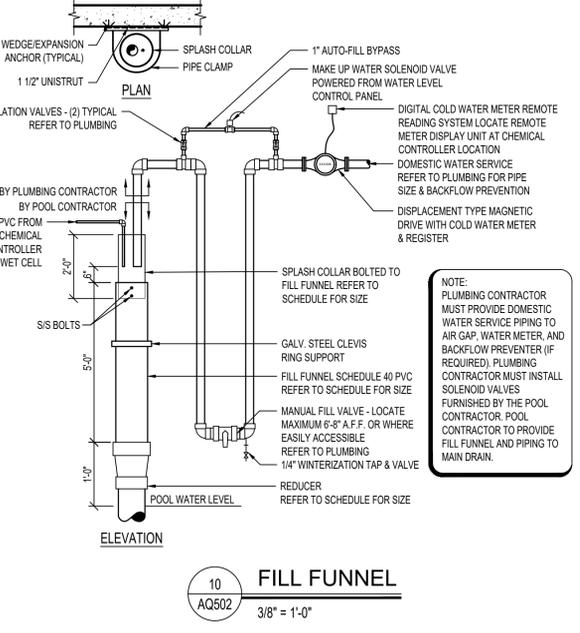
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AQ502
NTS



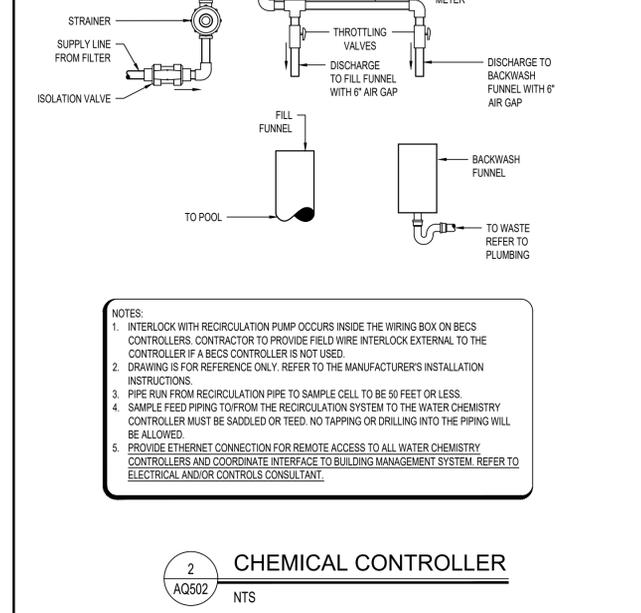
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AQ502
3/4" = 1'-0"



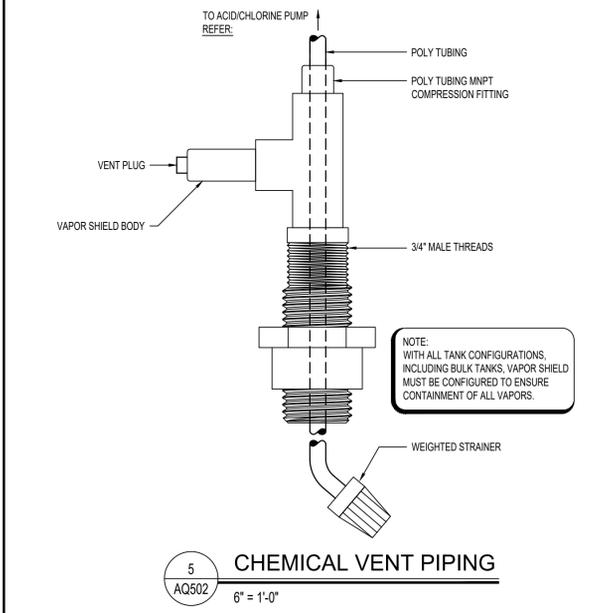
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AQ502
1/2" = 1'-0"



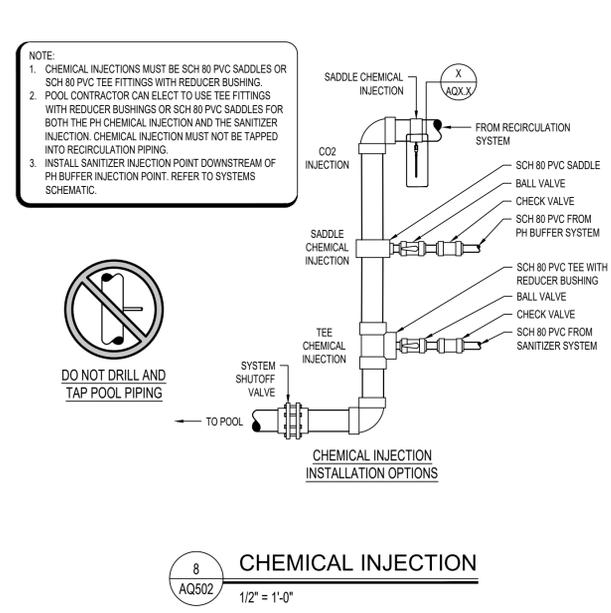
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AQ502
3/8" = 1'-0"



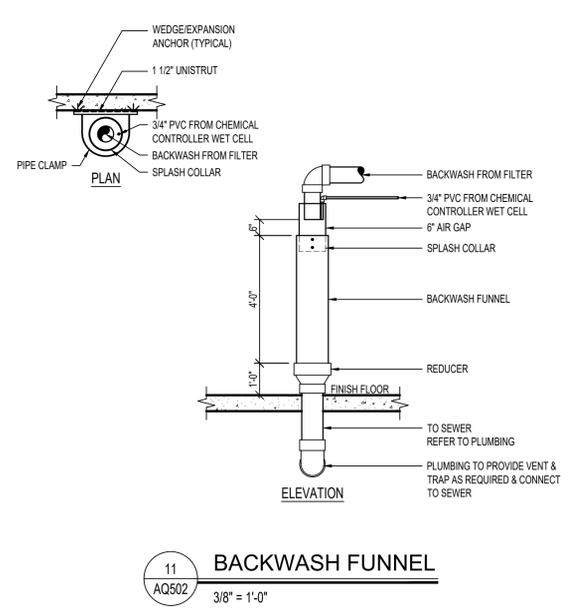
2
AQ502
NTS



5
AQ502
6" = 1'-0"



8
AQ502
1/2" = 1'-0"



11
AQ502
3/8" = 1'-0"



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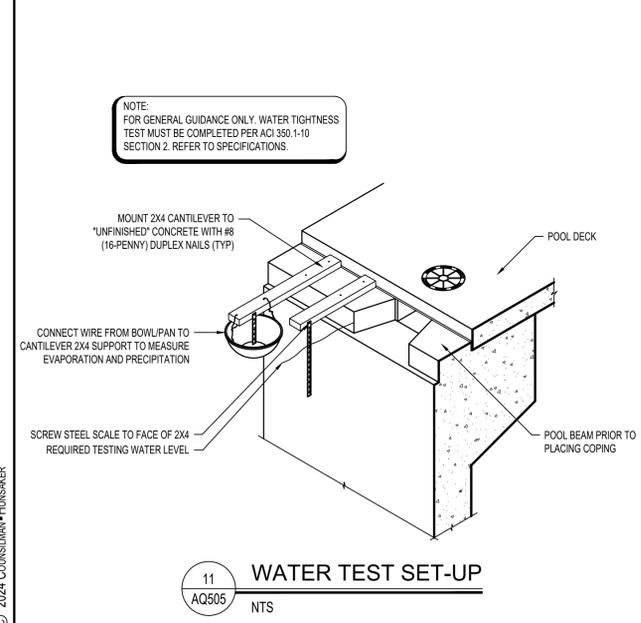
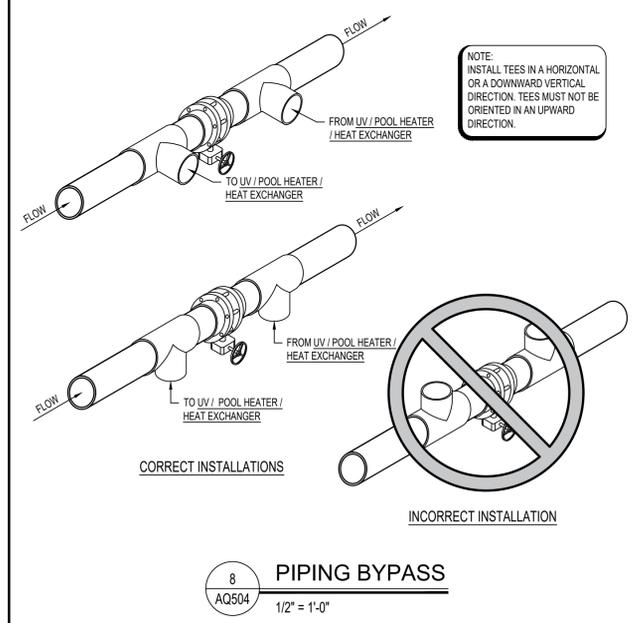
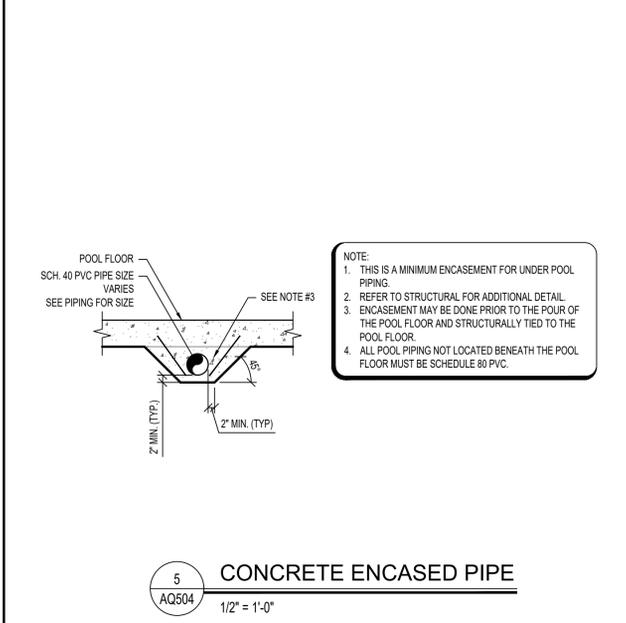
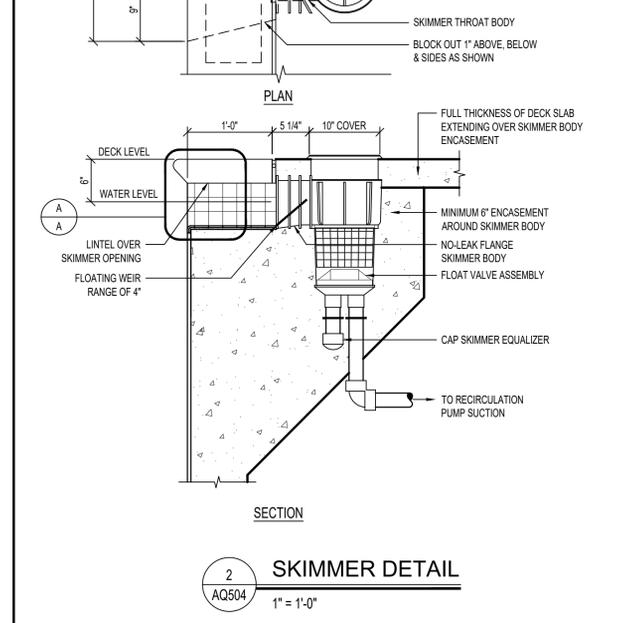
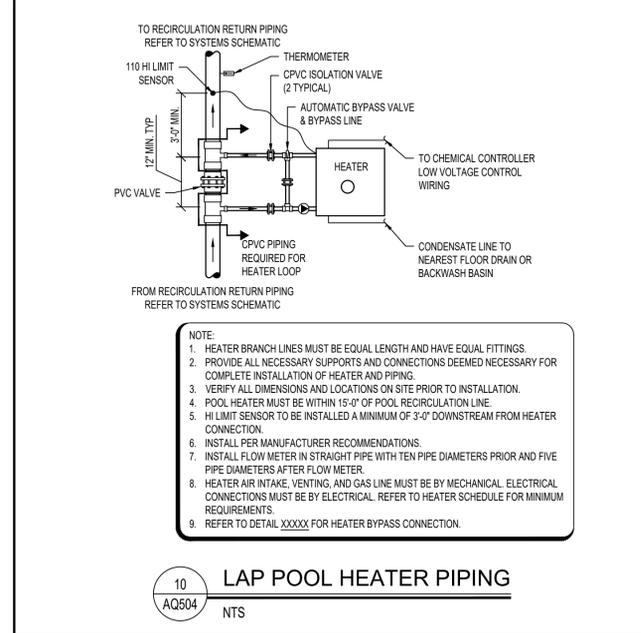
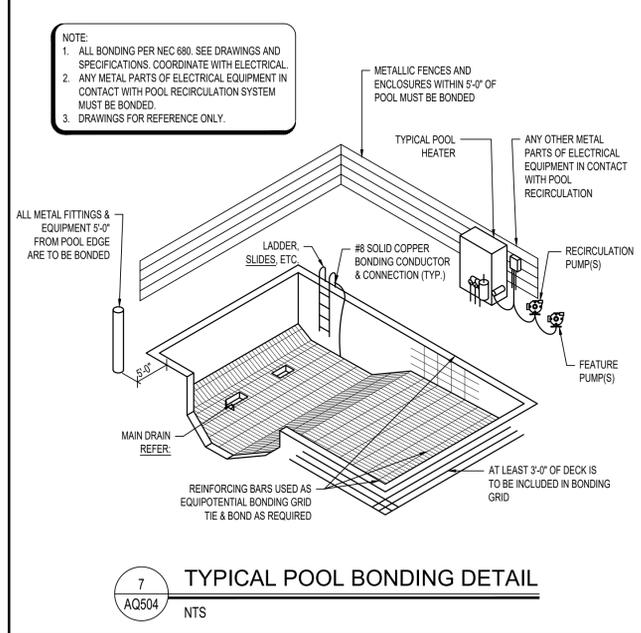
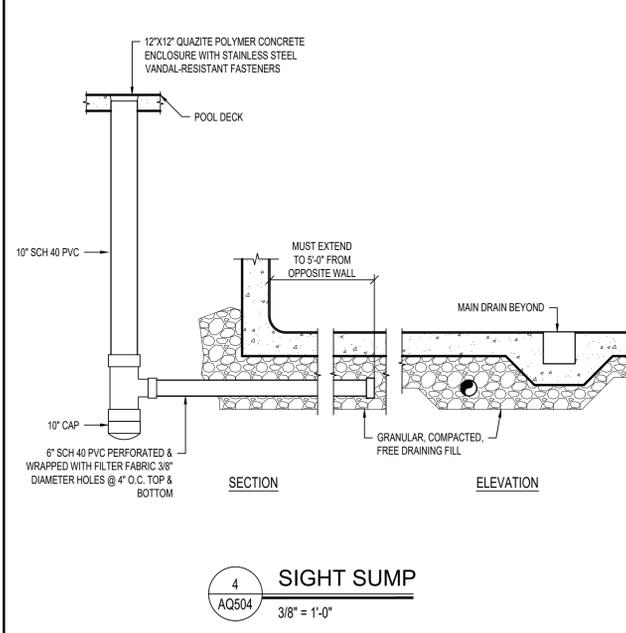
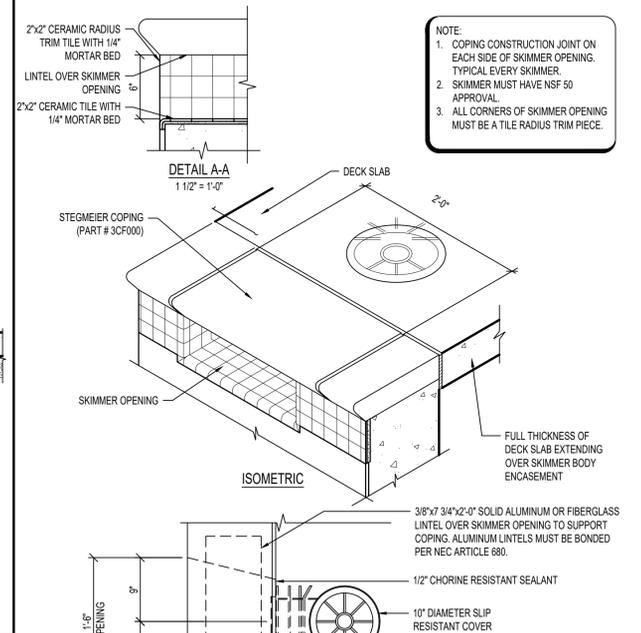
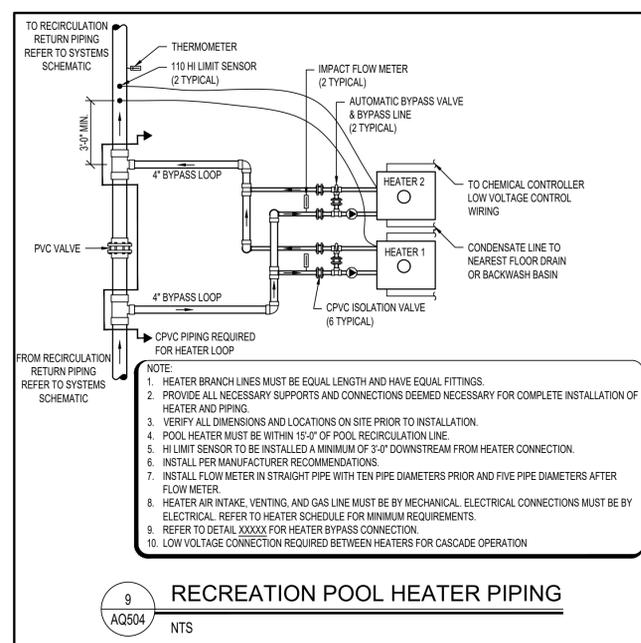
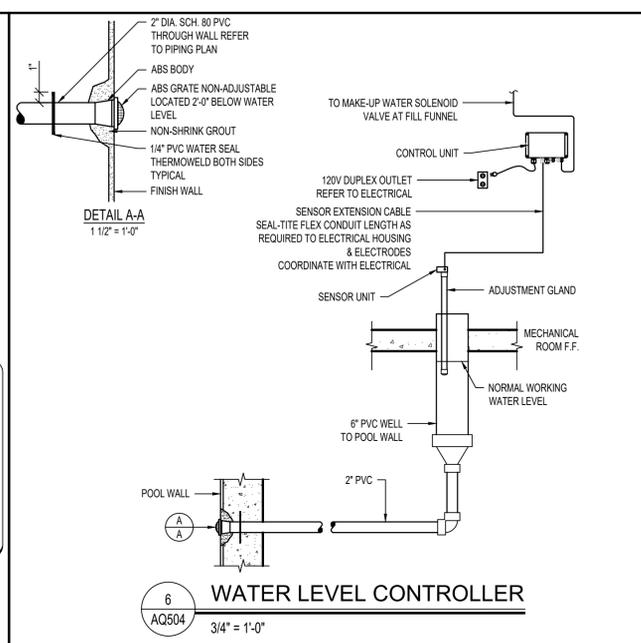
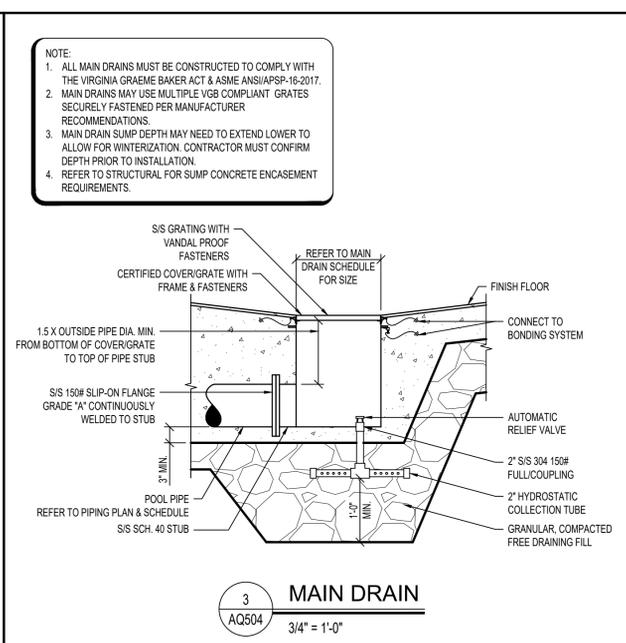
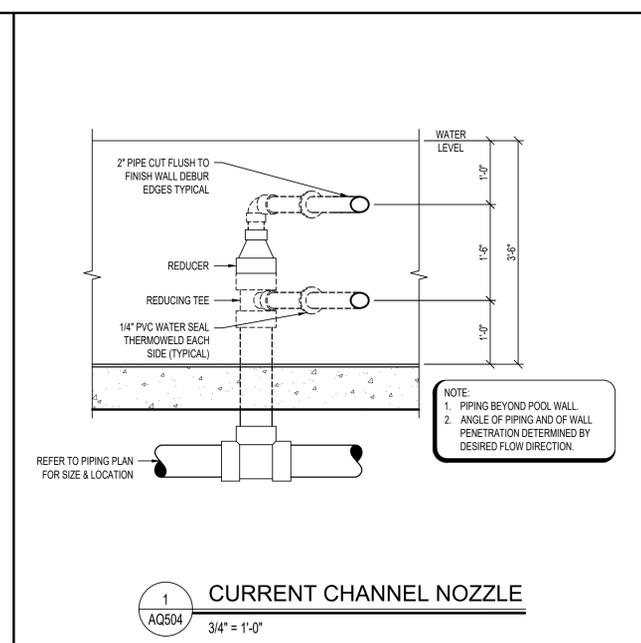
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1700 Bull Pasture Rd, Eagle, CO 81631

NO.	DATE:	TITLE/PURPOSE:
1	01/22/2024	100% DD

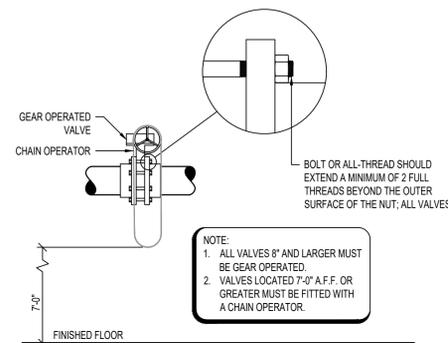
SCALE: AS NOTED
ISSUE DATE: JANUARY 22, 2024
PROJECT #: 23079
TITLE: POOL MECHANICAL DETAILS

SHEET #:
AQ504

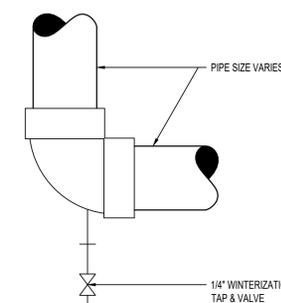


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CONSTRUCTION

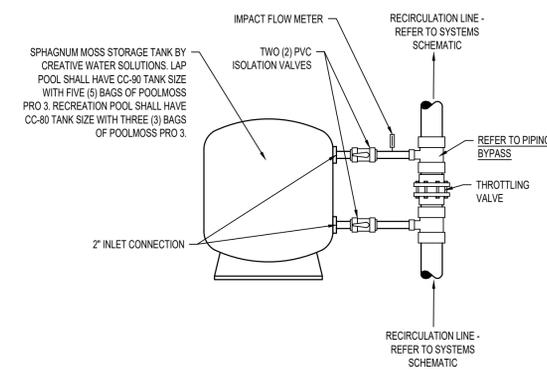
Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631



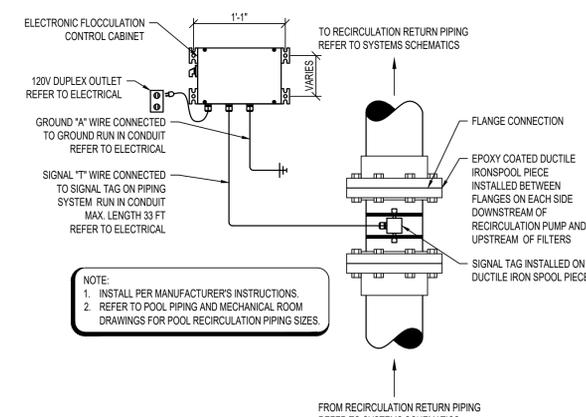
4 VALVE
AQ505 1/2" = 1'-0"



1 WINTERIZATION TAP & VALVE
AQ505 1 1/2" = 1'-0"



2 SPHAGNUM MOSS
AQ505 NTS



3 ELECTRONIC FLOCCULATION SYSTEM
AQ505 1" = 1'-0"

NO. DATE: TITLE/PURPOSE:

1 01/22/2024 100% DD

SCALE: AS NOTED
ISSUE DATE: JANUARY 22, 2024
PROJECT #: 23079
TITLE: POOL MECHANICAL DETAILS

SHEET #:

AQ505



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NO. DATE: TITLE/PURPOSE:

1 01/22/2024 100% DD

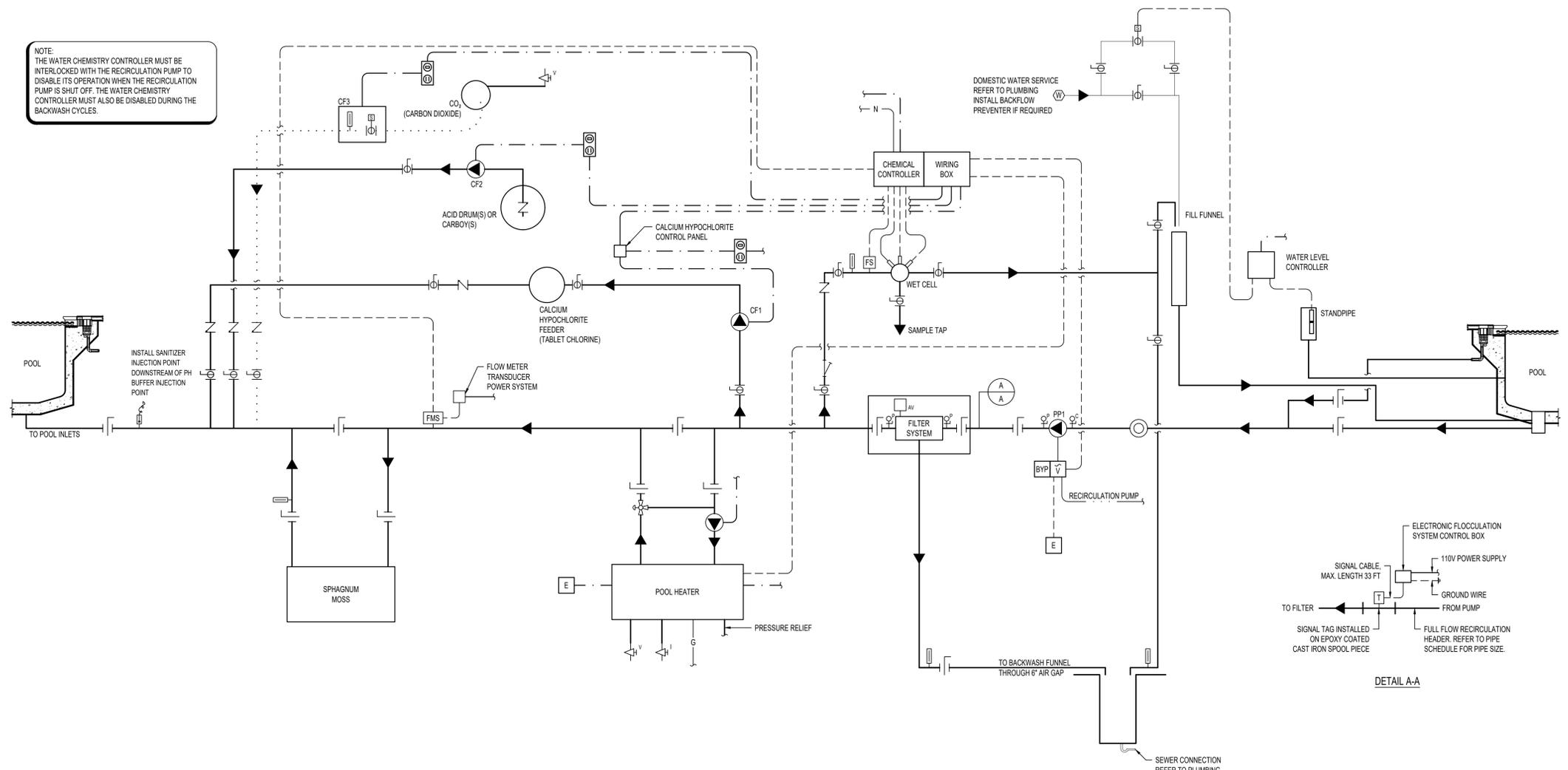
SCALE: AS NOTED
ISSUE DATE: JANUARY 22, 2024
PROJECT #: 23079
TITLE: LAP POOL SYSTEM SCHEMATICS

SHEET #:

AQ600

SCHEMATIC LEGEND

LEGEND	ITEM
	FLOW DIRECTION
	BUTTERFLY VALVE
	BALL VALVE
	MODULATING FLOAT VALVE
	SOLENOID VALVE
	CHECK VALVE
	THREE WAY VALVE
	PUMP
	HAIR AND LINT STRAINER
	"Y" STRAINER
	FLOW METER SENSOR
	FLOW SWITCH
	IMPACT FLOW METER
	VENTURI FLOW METER
	WATER METER
	AUTOMATIC AIR VENT
	AIR VENT
	AIR INLET
	PRESSURE GAUGE AND PETCOCK
	COMPOUND GAUGE AND PETCOCK
	DIGITAL TEMP SENSOR
	THERMOMETER
	PNEUMATIC ACTUATOR
	FLOW CONTROL VALVE
	COMBINATION SWITCH/RECEPTACLE
	AUTOMATIC PUMP SHUT-OFF DEVICE
	VARIABLE FREQUENCY DRIVE
	REMOTE START/STOP
	EMERGENCY STOP
	VARIABLE FREQUENCY DRIVE BYPASS
	CONTACT MOTOR SELECTOR
	ELECTRONIC FLOCCULATION SIGNAL TAG
	15 MINUTE TIMER SWITCH
	LOW VOLTAGE CONTROL
	WATER LINE
	1 PHASE POWER
	3 PHASE POWER
	CO ₂ LINE
	NETWORK LINE BY ELECTRICAL
	GAS LINE





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Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

NO. DATE: TITLE/PURPOSE:

1 01/22/2024 100% DD

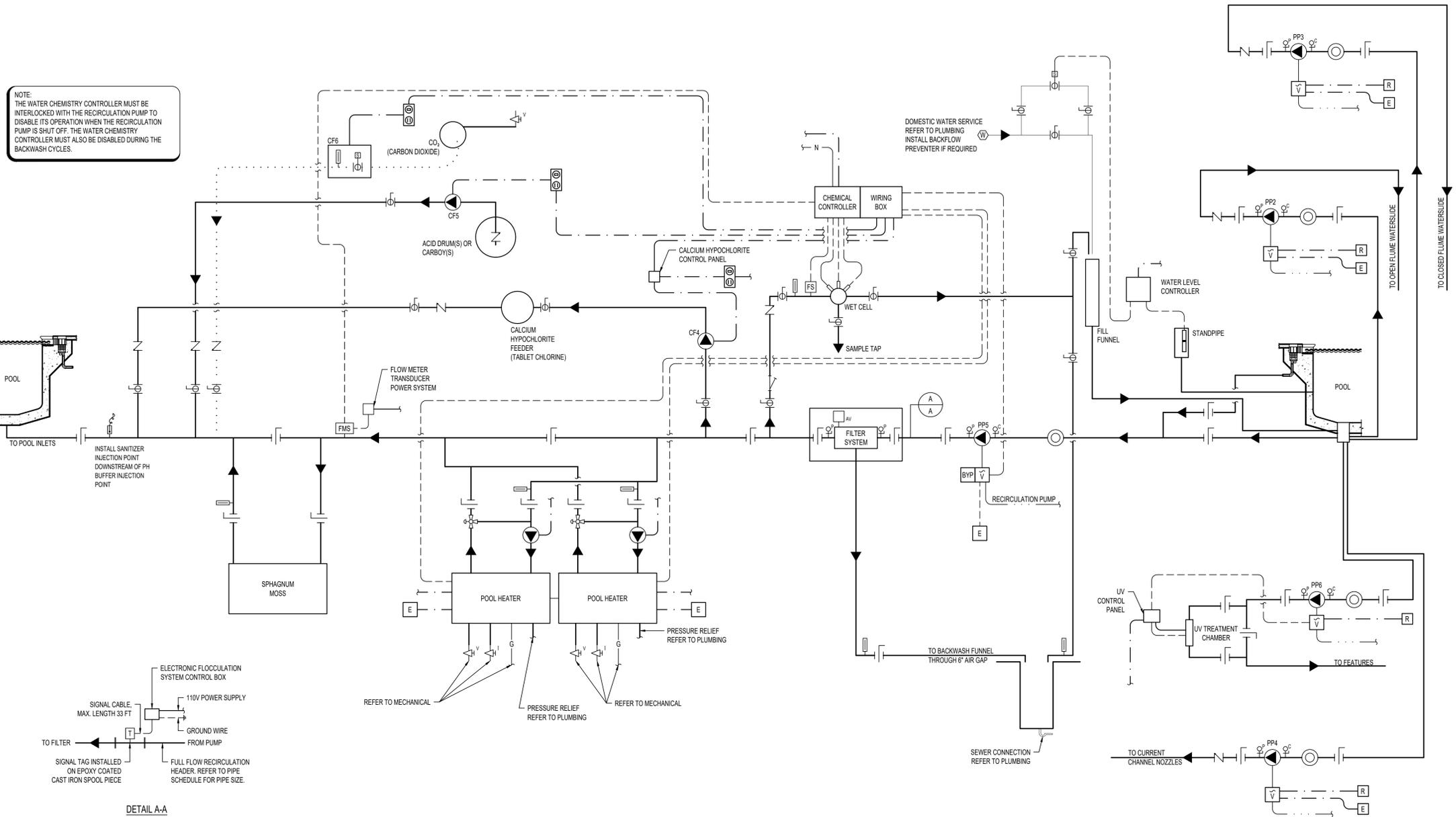
SCALE: AS NOTED
ISSUE DATE: JANUARY 22, 2024
PROJECT #: 23079
TITLE: RECREATION POOL SYSTEM SCHEMATICS

SHEET #:

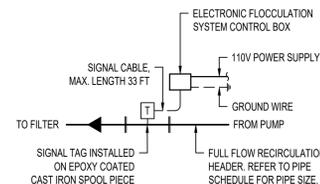
AQ601

SCHEMATIC LEGEND

LEGEND	ITEM
	FLOW DIRECTION
	BUTTERFLY VALVE
	BALL VALVE
	MODULATING FLOAT VALVE
	SOLENOID VALVE
	CHECK VALVE
	THREE WAY VALVE
	PUMP
	HAIR AND LINT STRAINER
	"Y" STRAINER
	FLOW METER SENSOR
	FLOW SWITCH
	IMPACT FLOW METER
	VENTURI FLOW METER
	WATER METER
	AUTOMATIC AIR VENT
	AIR VENT
	AIR INLET
	PRESSURE GAUGE AND PETCOCK
	COMPOUND GAUGE AND PETCOCK
	DIGITAL TEMP SENSOR
	THERMOMETER
	PNEUMATIC ACTUATOR
	FLOW CONTROL VALVE
	COMBINATION SWITCH/RECEPTACLE
	AUTOMATIC PUMP SHUT-OFF DEVICE
	VARIABLE FREQUENCY DRIVE
	REMOTE START/STOP
	EMERGENCY STOP
	VARIABLE FREQUENCY DRIVE BYPASS
	CONTACT MOTOR SELECTOR
	ELECTRONIC FLOCCULATION SIGNAL TAG
	15 MINUTE TIMER SWITCH
	LOW VOLTAGE CONTROL
	WATER LINE
	1 PHASE POWER
	3 PHASE POWER
	CO ₂ LINE
	NETWORK LINE BY ELECTRICAL
	GAS LINE



NOTE: THE WATER CHEMISTRY CONTROLLER MUST BE INTERLOCKED WITH THE RECIRCULATION PUMP TO DISABLE ITS OPERATION WHEN THE RECIRCULATION PUMP IS SHUT OFF. THE WATER CHEMISTRY CONTROLLER MUST ALSO BE DISABLED DURING THE BACKWASH CYCLES.



DETAIL A-A

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Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

SYMBOLS LEGEND

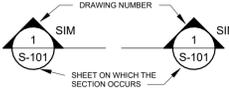
REVISION MARK



ELEVATION MARK



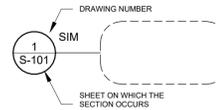
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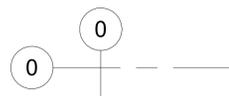
ELEVATION VIEW LABEL



DETAIL



STRUCTURAL GRID LINE



STEP INDICATOR SYMBOLS



SLOPE INDICATOR SYMBOLS



BEAM POCKET



BEAM HANGER



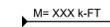
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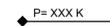
FULL MOMENT CONNECTION



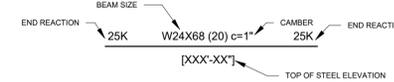
MOMENT CONNECTION



AXIAL DRAG CONNECTION



STEEL BEAM ANNOTATION



BRACED FRAME



MATERIALS LEGEND

	CONCRETE - CAST-IN-PLACE
	CLAY MASONRY / BRICK
	CONCRETE MASONRY UNIT
	STEEL
	DIMENSIONED LUMBER
	WOOD BLOCKING
	PLYWOOD
	NATIVE EARTH
	COMPACTED EARTH
	GRAVEL
	SAND / GRANULAR FILL
	GYPSUM WALL BOARD

ABBREVIATIONS

AB ANCHOR BOLT	NA NOT APPLICABLE
AFF ABOVE FINISHED FLOOR	NIC NOT IN CONTRACT
ALT ALTERNATIVE / ALTERNATE	NOM NOMINAL
ANCH ANCHOR	NTS NOT TO SCALE
ARCH ARCHITECT	NW NORMAL WEIGHT
EA AT	OAE OR APPROVED EQUAL
B BOTTOM OF	OC ON CENTER(S)
BF BOTTOM OF FOOTING	OD OUTSIDE DIAMETER
BLDG BUILDING	OH OVERHEAD / OVERHANG
BM BEAM	OPNG OPENING
BOT BOTTOM	OPP OPPOSITE
BRG BEARING	OSB ORIENTED STRAND BOARD
BW BOTTOM OF WALL	OSL ORIENTED STRAND LUMBER
C STEEL CHANNEL	OVS OVERSIZED HOLE
CANT CANTILEVER	(P) PRO PROPOSED
CF COLD FORMED	P AXIAL LOAD
CIP CAST IN PLACE	PAF POWDER ACTUATED FASTENER
CJ CONTROL JOINT	PARTBD PARTICLEBOARD
CJP COMPLETE JOINT PENETRATION	PC PRECAST
CL CENTER LINE	PEMB PRE-ENGINEERED METAL BUILDING
CLR CLEAR(ANCE)	PL PLATE
CMU CONCRETE MASONRY UNIT	PLF POUNDS PER LINEAL FOOT
COL COLUMN	PLY PLYWOOD
CONC CONCRETE	PRELIM PRELIMINARY
CONT CONTINUOUS / CONTINUE	PSF POUNDS PER SQUARE FOOT
DET DETAIL	PSI POUNDS PER SQUARE INCH
DIA DIAMETER	PT PRESSURE TREATED
DIM DIMENSION	PT POST TENSION (ED)
(E) / EXIST EXISTING	QTY QUANTITY
EA EACH	R REACTION
EJ EXPANSION JOINT	RAD RADIUS
EMBED EMBEDMENT	RD ROOF DRAIN
ENGR ENGINEER	REF REFERENCE / REFER TO
EO EDGE OF	REINF REINFORCE / REINFORCING
EQ EQUAL	REQD REQUIRED
ES EACH SIDE	RO ROUGH OPENING
EW EACH WAY	RTU ROOF TOP UNIT
EXP EXPANSION	SF SQUARE FOOT/FEET
EXT EXTERIOR	SIM SIMILAR
(F) FUT FUTURE	SLBB SHORT LEG BACK TO BACK
Fc 28 DAY CONCRETE STRENGTH	SPEC SPECIFICATION (S)
FD FLOOR DRAIN	SS STAINLESS STEEL
FDN FOUNDATION	SSLP SHORT SLOTTED HOLE PARALLEL
FF / FFE FINISH FLOOR (ELEVATION)	SSLT SHORT SLOTTED HOLE TRANSVERSE
FOEW FACE OF EXISTING WALL	STD STANDARD
FOS FACE OF STUD	STL STEEL
FRP FIBER REINFORCED PANEL	STRUCT STRUCTURE / STRUCTURAL
FT FOOT	SUSP SUSPENDED
FTG FOOTING	SYST SYSTEM
Fv SHEAR STRENGTH	T TOP OF: DECK, CONCRETE, BEAM,
Fy YIELD STRENGTH	PARAPET, STEEL, WALL
GA GAUGE	T&B TOP AND BOTTOM
GALV GALVANIZED	T&G TONGUE AND GROOVE
GB GYPSUM BOARD	TOW TOP OF WALL
GC GENERAL CONTRACTOR	TRANS TRANSVERSE
GL GLU-LAM LUMBER	TYP TYPICAL
GWB GYPSUM WALL BOARD	UNO UNLESS NOTED OTHERWISE
GYP GYPSUM	V SHEAR LOAD
HAS HEADED ANCHOR STUD	VERT VERTICAL
HGR HANGER	VIF VERIFY IN FIELD
HOOK STANDARD REINFORCING HOOK	VNR VENEER
HORIZ HORIZONTAL	W WIDE FLANGE
HSS HOLLOW STEEL SECTION	WASH WASHER
HT HEAVY TIMBER	WCV WALL COVERING
ID INSIDE DIAMETER	WD WOOD
INSUL INSULATION	WDBLK WOOD BLOCKING
INT INTERIOR	WDB WOOD BASE
KLF KIPS PER LINEAL FOOT	WDF WOOD FLOORING
KSF KIPS PER SQUARE FOOT	WDT WOOD TRIM
KSI KIPS PER QUARE INCH	WDV WOOD VENEER
L ANGLE	WDW WINDOW
LAP LAP SPLICE	WF WIDE FLANGE
Ld DEVELOPMENT LENGTH	WP WORK POINT
LLBB LONG LEG BACK TO BACK	WPT WALL PROTECTION
LLH LONG LEG HORIZONTAL	WT WINDOW TREATMENT
LLV LONG LEG VERTICAL	WT STEEL TEE SECTION
LONG LONGITUDINAL	WWR WELDED WIRE REINFORCING
LSL LAMINATED STRAND LUMBER	XPS EXTRUDED POLYSTYRENE
LSLP LONG SLOTTED HOLE PARALLEL	# NUMBER / POUND
LSLT LONG SLOTTED HOLE TRANSVERSE	& AND
LVL LAMINATED VENEER LUMBER	@ AT
LW LIGHTWEIGHT	
M MOMENT	
MAS MASONRY	
MATL MATERIAL	
MAX MAXIMUM	
MECH MECHANICAL	
MFD MANUFACTURED	
MIN MINIMUM	
MIR MIRROR(ED)	
MTL METAL	

NO. DATE: TITLE/PURPOSE:

SCALE: 12" = 1'-0"
ISSUE DATE: 01/22/2024
PROJECT #: 2023-493.001
TITLE: SYMBOLS AND ANNOTATIONS

SHEET #:
S-003

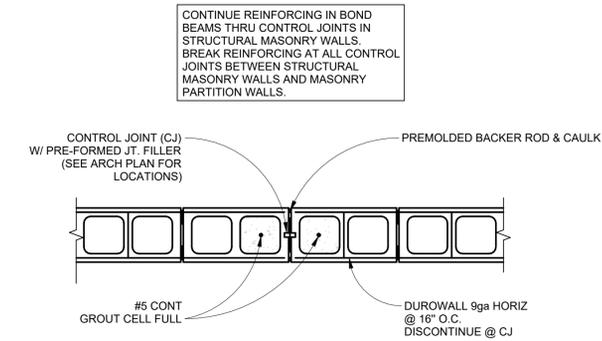
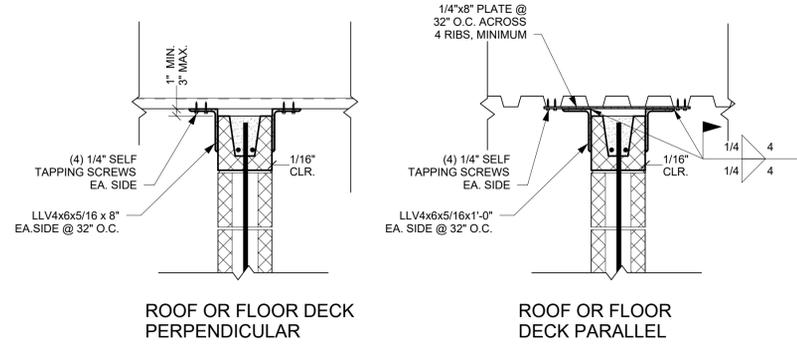
NOT FOR CONSTRUCTION

Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

NO. DATE: TITLE/PURPOSE:

SCALE: As indicated
ISSUE DATE: 01/22/2024
PROJECT #: 2023-493.001
TITLE: TYPICAL CMU DETAILS

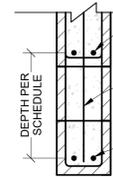
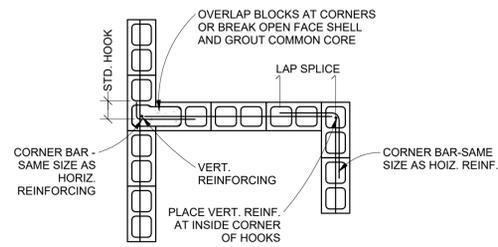
SHEET #:
S-401



1 TYPICAL CMU BOND BEAM
S-401 1" = 1'-0"

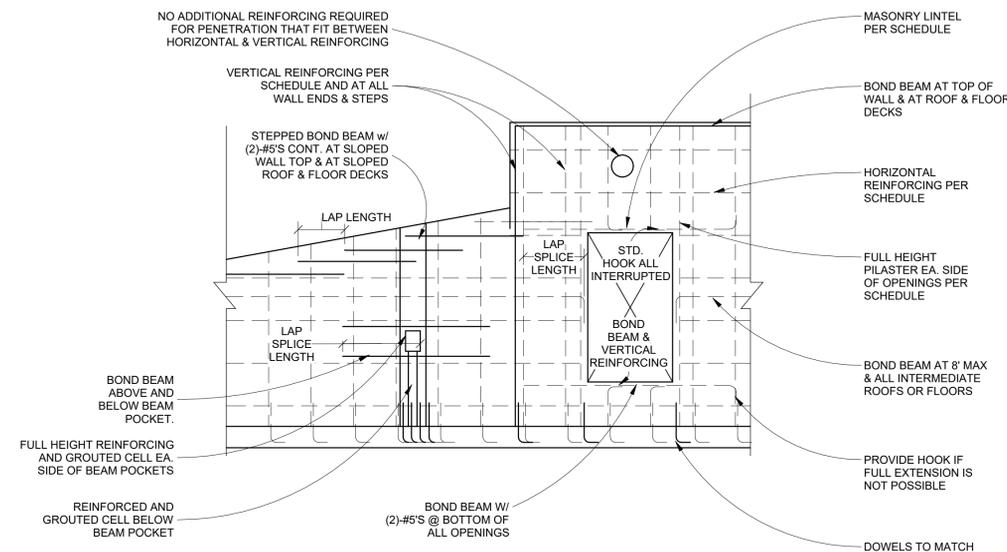
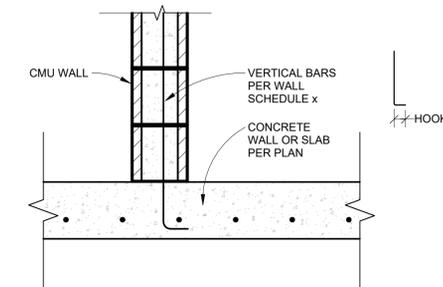
2 TYPICAL CMU BRACING AT TOP OF PARTITION WALLS
S-401 1" = 1'-0"

3 TYPICAL CMU CONTROL JOINT
S-401 1" = 1'-0"



5 TYPICAL MASONRY LINTEL
S-401 1" = 1'-0"

MASONRY LINTEL SCHEDULE			
OPENING WIDTH	LINTEL DEPTH	REINFORCEMENT	PIER
0 TO 4' - 0"	1' - 4"	(4)-#5'S, (2) EACH AT TOP & BOTTOM	(1) REINFORCED AND GROUTED CELL EACH SIDE OF OPENING
4' - 1" TO 8' - 0"	2' - 0"	(4)-#5'S, (2) EACH AT TOP & BOTTOM	(1) REINFORCED AND GROUTED CELL EACH SIDE OF OPENING
8' - 1" TO 12' - 0"	2' - 8"	(4)-#5'S, (2) EACH AT TOP & BOTTOM	(2) REINFORCED AND GROUTED CELL EACH SIDE OF OPENING
12' - 1" TO 16' - 0"	4' - 0"	(4)-#6'S, (2) EACH AT TOP & BOTTOM	(2) REINFORCED AND GROUTED CELL EACH SIDE OF OPENING
16' - 1" TO 20' - 0"	5' - 4"	(4)-#6'S, (2) EACH AT TOP & BOTTOM	(2) REINFORCED AND GROUTED CELL EACH SIDE OF OPENING



REINFORCING SPLICE TABLE (F'm = 2000 PSI, Fy=60 KSI, BAR COVER = 1 1/2 IN. MIN.)		
BAR SIZE	DIAMETER (db) (INCHES)	LAP SPLICE LENGTH (INCHES)
3	0.375	16
4	0.5	29
5	0.625	45
6	0.75	85
7	0.875	116
8	1	174
9	1.125	221

MASONRY WALL SCHEDULE			
WALL TAG	MASONRY WALL SIZE	MINIMUM VERTICAL REINFORCING	HORIZONTAL REINFORCING
M1	8" CMU	#5's @ 32" O.C.	9 GAUGE LADDER TYPE JOINT REINFORCEMENT @ 16" O.C.

**PRELIMINARY -
NOT FOR
CONSTRUCTION**

Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

HVAC LEGEND		
ABBV.	SYMBOL	DESCRIPTION
LVR		LOUVER
SD		SLOT DIFFUSER
SR		SUPPLY REGISTER
SG		SUPPLY GRILLE
FG		FLOOR GRILLE
RR		RETURN REGISTER
RG		RETURN GRILLE
ER		EXHAUST REGISTER
EG		EXHAUST GRILLE
TG		TRANSFER GRILLE
SA		SUPPLY AIR
RA		RETURN AIR
EA		EXHAUST AIR
OA		OUTSIDE AIR
TA		TRANSFER AIR
MA		MAKE-UP AIR
FCU		FAN COIL UNIT
VAV		VARIABLE AIR VOLUME TERMINAL

GENERAL LEGEND		
ABBV.	SYMBOL	DESCRIPTION
G.C.		GENERAL CONTRACTOR
M.C.		MECHANICAL CONTRACTOR
P.C.		PLUMBING CONTRACTOR
E.C.		ELECTRICAL CONTRACTOR
T.C.C.		TEMPERATURE CONTROL CONTRACTOR
F.P.C.		FIRE PROTECTION CONTRACTOR
A.F.F.		ABOVE FINISHED FLOOR
A.F.G.		ABOVE FINISHED GRADE
B.F.F.		BELOW FINISHED FLOOR
B.F.G.		BELOW FINISHED GRADE
N.I.C.		NOT IN CONTRACT
N.C.		NORMALLY CLOSED
N.O.		NORMALLY OPEN
(N)		NEW
(E)		EXISTING
(E)		EXISTING
SF		SQUARE FOOTAGE
ADAP		ACCESS DOOR/ACCESS PANEL
		CONTROL WIRING
		POINT OF CONNECTION - NEW TO EXISTING
		PIPE TAG - X=PIPE SIZE, Y=GPM
		X = SECTIONAL NUMBER XXX = SHEET NUMBER WHERE SECTIONAL IS DRAWN

HVAC LEGEND		
ABBV.	SYMBOL	DESCRIPTION
MCD		MOTORIZED CONTROL DAMPER
M/D		MANUAL VOLUME DAMPER
FD		FIRE DAMPER
FSD		COMBINATION MOTORIZED FIRE/SMOKE DAMPER
(E)FD		EXISTING FIRE DAMPER
(E)FSD		EXISTING COMBINATION MOTORIZED FIRE/SMOKE DAMPER
		WALL SWITCH
		WALL SWITCH WITH PILOT LIGHT
		THERMOSTAT / HUMIDISTAT
		TEMPERATURE / HUMIDITY / CARBON DIOXIDE SENSOR
		COMBINATION TEMPERATURE SENSORS
		EMERGENCY POWER OFF SWITCH
		OCCUPANCY SENSOR
		SMOKE DETECTOR
		PRESSURE SENSOR
		MOTOR STARTER
		VELOCITY SENSOR
		ANALOG FLOW MEASURING DEVICE
		VARIABLE FREQUENCY DRIVE
		ANALOG OUTPUT
		ANALOG INPUT
		DIGITAL OUTPUT
		DIGITAL INPUT
		SUPPLY DUCT UP & DOWN
		RETURN/EXHAUST DUCT UP & DOWN
		ROUND DUCT UP & DOWN
		DUCT ELBOW WITH TURNING VANES
		SQUARE TO ROUND TRANSITION
		OFFSET DUCT UP / DOWN IN DIRECTION OF ARROW
		CONICAL SPIN-IN FITTING WITH MANUAL VOLUME DAMPER
		CONICAL SPIN-IN FITTING
		45° TEE/OFF
		STANDARD RADIUS ELBOW
		NEW RECTANGULAR DUCTWORK - WIDTH x DEPTH
		NEW ROUND DUCTWORK - DIAMETER
		NEW OVAL DUCTWORK - WIDTH x DEPTH
		EXISTING DUCTWORK TO REMAIN
		EXISTING DUCTWORK TO BE REMOVED
CD		CEILING DIFFUSER (FOUR WAY THROW PATTERN)
CD		CEILING DIFFUSER (TWO WAY THROW PATTERN)
CD		CEILING DIFFUSER (ONE WAY THROW PATTERN)
CD		CEILING DIFFUSER (THREE WAY THROW PATTERN)
CD		CEILING DIFFUSER (TWO WAY THROW PATTERN)
SD		SLOT DIFFUSER
RSEG		RETURN OR EXHAUST REGISTER OR GRILLE
RG		RETURN GRILLE WITH SOUND BOOT
VAV		VAV TERMINAL LINER
		FLEXIBLE DUCTWORK
		AIRFLOW - RETURN/EXHAUST
		AIRFLOW - SUPPLY
		SOUND ATTENUATOR

MECHANICAL DEMOLITION GENERAL NOTES AND SPECIFICATIONS

- THE MECHANICAL CONTRACTOR SHALL INSPECT SITE TO BECOME FAMILIAR WITH THE SCOPE OF THE WORK. THESE DOCUMENTS DO NOT REFLECT AS-BUILT CONDITIONS. ANY DISCREPANCIES BETWEEN THESE DOCUMENTS AND THE ACTUAL CONDITIONS SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION PRIOR TO BID PRICING. NO EXTRAS WILL BE ALLOWED DUE TO LACK OF KNOWLEDGE OF THE EXISTING CONDITIONS.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL ABOVE CEILING EQUIPMENT, DUCTWORK, AND CEILING MOUNTED AIR DEVICES WITH EXISTING ARCHITECTURAL, STRUCTURAL, ELECTRICAL, AND MECHANICAL CONDITIONS. APPROXIMATE LOCATIONS OF NEW WORK ARE SHOWN AND SHOULD BE FOLLOWED AS CLOSELY AS EXISTING CONDITIONS WILL ALLOW.
- COORDINATE DEMOLITION REQUIREMENTS WITH THE GENERAL CONTRACTOR.
- COORDINATE EXTENT OF DEMOLITION WITH THE NEW CONSTRUCTION AS SHOWN IN THESE DOCUMENTS.
- EXISTING MECHANICAL WORK IS SHOWN LIGHT.
- ALL MECHANICAL ITEMS INDICATED TO BE DEMOLISHED SHALL BE INSPECTED FOR SALVAGE BY THE OWNER. ALL NON-SALVAGEABLE ITEMS SHALL THEN BE IMMEDIATELY REMOVED FROM THE SITE BY THE MECHANICAL CONTRACTOR.
- ALL UNUSED TEMPERATURE CONTROL WIRING, WIRE MOLD, PNEUMATIC TUBING AND CONTROL COMPONENTS SHALL BE REMOVED.
- ALL UNUSED HANGERS AND SUPPORTS SHALL BE REMOVED.
- THE REMOVAL OR INSTALLATION OF CONTROLS, PIPES, DUCTS, AND EQUIPMENT MAY REQUIRE THE REMOVAL OF EXISTING WALLS AND CEILINGS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND PAINTING THESE WALLS AND/OR CEILINGS SO THEY MATCH THE EXISTING WHERE NOT REPLACED UNDER THE ARCHITECTURAL DOCUMENTS. THE GENERAL CONTRACTOR SHALL REVIEW THE MECHANICAL DRAWINGS TO IDENTIFY THESE LOCATIONS PRIOR TO BID PRICING.
- THE GENERAL CONTRACTOR SHALL PATCH AND PAINT WALLS TO MATCH EXISTING AT THE DEMOLISHED CONTROLS.
- THE GENERAL CONTRACTOR SHALL PATCH AND SEAL UNUSED ROOF PENETRATIONS AT DEMOLISHED MECHANICAL TO MATCH EXISTING CONDITIONS.
- THE GENERAL CONTRACTOR SHALL PATCH THE CEILING, ROOF, AND WALLS TO MATCH EXISTING AT DEMOLISHED HANGERS AND SUPPORTS.
- THE GENERAL CONTRACTOR SHALL MAKE REPAIRS TO ALL EXISTING BUILDING COMPONENTS THAT HAVE BEEN AFFECTED BY THE DEMOLITION OF MECHANICAL SYSTEMS.
- PORTIONS OF THIS BUILDING WILL BE OCCUPIED DURING THIS CONSTRUCTION PROJECT. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE SCHEDULING OF THEIR WORK WITH THE GENERAL CONTRACTOR. CLEAN UP AT THE END OF EACH DAY.

MECHANICAL GENERAL NOTES AND SPECIFICATIONS

- THESE DOCUMENTS ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO BE UTILIZED AS SHOP DRAWINGS NOR NECESSARILY SCALED FOR EXACT MEASUREMENTS. ANY DISCREPANCIES BETWEEN THESE DOCUMENTS AND THE ACTUAL CONDITIONS SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION PRIOR TO INSTALLATION.
- MECHANICAL WORK SHALL COMPLY WITH ALL APPLICABLE CODES. VERIFY ALL REQUIREMENTS PRIOR TO SUBMITTING BID OR COMMENCING WORK.
- MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL COORDINATION OR MODIFICATIONS THAT MAY BE REQUIRED DUE TO THE USE OR INSTALLATION OF EQUIPMENT OTHER THAN THAT OF THE BASIS OF DESIGN MANUFACTURERS AS LISTED ON THE DRAWINGS.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES PRIOR TO AND DURING CONSTRUCTION. THE MECHANICAL SYSTEMS SHOWN SHALL BE RUN AS HIGH AS POSSIBLE UNLESS NOTED OTHERWISE.
- WHERE CEILING SPACE IS TO BE USED AS A RETURN AIR PLENUM, COMPLY WITH ALL APPLICABLE CODES. ALL MATERIALS WITHIN THE CEILING PLENUM WILL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50.
- WHERE THE CEILING SPACE IS TO BE USED AS A RETURN AIR PLENUM, THE GENERAL AND MECHANICAL CONTRACTORS SHALL VERIFY THAT THE RETURN AIR PATH BACK TO THE UNIT IS OPEN WITH A VELOCITY THROUGH ALL OPENINGS OF 400 FPM OR LESS.
- REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL CEILING AIR DEVICES AND ACCESS PANELS. OBTAIN CLARIFICATION FROM THE ARCHITECT, IF EXACT LOCATIONS ARE NOT SHOWN.
- REFER TO THE ARCHITECTURAL DRAWINGS FOR ROOFING DETAILS SPECIFIC TO THIS PROJECT.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE THERMOSTAT, SENSOR, AND SWITCH LOCATIONS WITH ARCHITECT/ENGINEER PRIOR TO INSTALLATION. ALL THERMOSTATS, SENSORS, AND SWITCHES SHALL BE LOCATED 48" AFF UNLESS INDICATED OTHERWISE. WHERE EXISTING CONDITIONS REQUIRE EXPOSED CONTROL WIRING, SUCH WIRING SHALL BE CONCEALED WITH WIRE MOLD. WIRE MOLD COLOR SHALL BE SELECTED BY THE ARCHITECT.
- PROVIDE EQUIPMENT LABELS FOR ALL MAJOR EQUIPMENT, INCLUDING BUT NOT LIMITED TO AIR HANDLING SYSTEMS, FANS, CONTROLS, AND DAMPERS. LABELS SHALL BE AFFIXED, ADHERED, DIRECTLY TO EQUIPMENT. EQUIPMENT TO BE LABELED WITH ENGRAVED PLASTIC LAMINATE SHEETS.
- PROVIDE PIPE MARKER IDENTIFICATION INCLUDING ARROWS TO INDICATE DIRECTION OF FLOW. LOCATE PIPE MARKER AND ARROWS WHEREVER PIPING IS EXPOSED TO VIEW IN OCCUPIED SPACES. MECHANICAL ROOMS AND ACCESSIBLE MAINTENANCE AREAS (SHAFTS, TUNNELS, PLENUMS) MARKERS SHALL BE SNAP-ON TYPE OR PRESSURE-SENSITIVE TYPE AT INSTALLER'S OPTION. COLORS TO COMPLY WITH ANSI A13.1.
- PROVIDE VALVE TAGS ON EVERY VALVE, COCK, AND CONTROL DEVICE IN EACH PIPING SYSTEM. LIST EACH TAG SCHEDULE FOR EACH PIPING SYSTEM MOUNTED FRAMED VALVE. SCHEDULE IN MAIN MECHANICAL ROOM. VALVE TAGS - 1/2" DIAMETER OF PLASTIC LAMINATE OR BRASS WITH PIPING SYSTEM ABBREVIATION IN 1/4" HIGH LETTERS AND SEQUENTIAL VALVE NUMBERS IN 1/2" HIGH LETTERS.
- BALANCE AIR (HYDRONIC AND RECIRCULATING DOMESTIC HOT WATER) SYSTEMS TO THE QUANTITIES SHOWN AND SUBMIT BALANCE REPORT TO THE ARCHITECT/ENGINEER FOR REVIEW. FAN AND PUMP SYSTEMS TO BE BALANCED WITHIN PLUS 10 PERCENT OR MINUS 5 PERCENT OF LISTED VALUES. AIR INLETS AND OUTLETS TO BE BALANCED WITHIN PLUS 10 PERCENT TO MINUS 5 PERCENT OF LISTED VALUES.
- SUBMIT TO THE ARCHITECT/ENGINEER ELECTRONIC PDF FILES OF MECHANICAL SUBMITTALS FOR REVIEW OF ALL MAJOR EQUIPMENT AS LISTED ON DRAWING EQUIPMENT SCHEDULES, AS WELL AS DUCTWORK ACCESSORIES AND CONTROLS. ENGINEER ASSUMES NO RESPONSIBILITY FOR EQUIPMENT OR INSTALLATION COORDINATION THAT HAS NOT BEEN SUBMITTED FOR REVIEW.
- CONTRACTOR SHALL WARRANTY WORK, EQUIPMENT, MATERIALS, AND PROPER OPERATION FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE OF BUILDING BY OWNER. THIS GUARANTEE SHALL NOT INCLUDE NORMAL MAINTENANCE REQUIRED BY THE OWNER AS DESCRIBED IN O&M MANUALS.
- PROVIDE TWO SETS OF OPERATION AND MAINTENANCE (O&M) MANUALS FOR OWNER AT COMPLETION OF PROJECT TO THE ARCHITECT/ENGINEER FOR REVIEW. DOCUMENTATION SHALL CONSIST OF MANUFACTURER'S INFORMATION, SPECIFICATIONS AND RECOMMENDATIONS, PROGRAMMING PROCEDURES AND DATA POINTS, NARRATIVES, AND OTHER MEANS OF ILLUSTRATING TO THE OWNER HOW THE BUILDING, EQUIPMENT, AND SYSTEMS ARE INTENDED TO BE INSTALLED, MAINTAINED, AND OPERATED. REQUIRED REGULAR MAINTENANCE ACTIONS FOR EQUIPMENT AND SYSTEMS SHALL BE CLEARLY STATED ON A READILY VISIBLE LABEL. THE LABEL SHALL INCLUDE THE TITLE OR PUBLICATION NUMBER FOR THE OPERATION AND MAINTENANCE MANUAL FOR THAT PARTICULAR MODEL AND TYPE OF PRODUCT.
- CONTRACTOR SHALL MAINTAIN A COMPLETE AND ACCURATE SET OF RECORD DRAWINGS SHOWING ACTUAL INSTALLED LOCATIONS OF WORK. SUBMIT THESE DRAWINGS AS PART OF THE OPERATION AND MAINTENANCE MANUALS AT COMPLETION OF PROJECT.
- ACCESS DOORS SHALL BE INSTALLED IN ORDER TO PROVIDE ACCESS TO MECHANICAL SYSTEMS REQUIRING ACCESS FOR SERVICING OR ADJUSTMENT LOCATED ABOVE UNACCESSIBLE CEILINGS, WHETHER OR NOT SHOWN ON THE DRAWINGS. ACCESS DOORS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR. ACCESS DOOR LOCATIONS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION. PROVIDE 12"x12" ACCESS DOORS FOR HAND ACCESS (VALVES AND DAMPERS) AND 24"x24" ACCESS FOR HEAD AND SHOULDER ACCESS FOR OTHER EQUIPMENT.

MECHANICAL HVAC INSULATION NOTES AND SPECIFICATIONS

- ALL RECTANGULAR SUPPLY, RETURN, AND TRANSFER DUCTWORK SHALL BE LINED WITH 1" DUCT LINER, UNLESS NOTED OTHERWISE.
- ALL CONCEALED ROUND DUCTWORK SHALL BE WRAPPED WITH 1-1/2" DUCT WRAP WITH VAPOR BARRIER JACKET, MINIMUM R-6.
- OUTSIDE AIR DUCTWORK SHALL BE WRAPPED WITH 2" DUCT WRAP WITH VAPOR BARRIER JACKET, MINIMUM R-8. NO DUCT LINER ALLOWED.
- FLEXIBLE DUCTWORK SHALL BE WRAPPED WITH FIBERGLASS INSULATION WITH VAPOR BARRIER JACKET, MINIMUM R-6.
- ALL EXPOSED SPIRAL ROUND DUCTWORK SHALL NOT BE REQUIRED TO BE INSULATED. (LINED WITH 1" DUCT LINER).
- ALL EXHAUST DUCTWORK SHALL NOT BE REQUIRED TO BE INSULATED, UNLESS NOTED OTHERWISE.
- ALL EXTERIOR AND ROOF MOUNTED DUCTWORK EXPOSED TO OUTDOORS SHALL BE PROVIDED WITH 1" DUCT LINER AND 2" DUCT WRAP, WITH A WATERTIGHT ALUMINUM ALL WEATHER JACKETING. MINIMUM TOTAL ASSEMBLY R-12.
- RECTANGULAR MAKE-UP AIR SUPPLY DUCTWORK SHALL BE WRAPPED WITH 1-1/2" DUCT WRAP WITH VAPOR BARRIER JACKET, MINIMUM R-6. NO DUCT LINER ALLOWED.
- REFRIGERANT SUCTION PIPING SHALL BE INSULATED WITH MINIMUM 1/2" THICK CLOSED CELL INSULATION, OR AS RECOMMENDED BY EQUIPMENT MANUFACTURER. NOTE THAT BOTH REFRIGERANT LIQUID AND SUCTION LINES SHALL BE INSULATED FOR VRF AND DUCTLESS SPLIT SYSTEMS.
- INSULATE HEATING WATER PIPING 1-1/2" AND SMALLER WITH 1-1/2" FIBERGLASS PIPE INSULATION WITH ALL SERVICE JACKET.
- INSULATE CHILLED WATER PIPING WITH 1-1/2" FIBERGLASS PIPE INSULATION WITH ALL SERVICE JACKET.

SHEET INDEX			
SHEET NUMBER	MECHANICAL SHEET TITLE	SHEET SCALE	SHEET ISSUED
M-000	MECHANICAL COVER SHEET	NONE	X
MD-101	HVAC DEMO FLOOR PLAN	1/8" = 1'-0"	X
MD-201	HVAC DEMO PIPING FLOOR PLAN	1/8" = 1'-0"	X
M-101	HVAC FLOOR PLAN	1/8" = 1'-0"	X
M-201	HVAC PIPING FLOOR PLAN	1/8" = 1'-0"	X
M-301	HVAC ENLARGED PLANS	1/4" = 1'-0"	X
M-501	HVAC DETAILS	NONE	X
M-601	HVAC SCHEDULES	NONE	X

HVAC PIPING NOTES AND SPECIFICATIONS

- HEATING WATER PIPING 2" AND SMALLER SHALL BE TYPE "L" COPPER. HEATING WATER PIPING 2-1/2" AND LARGER SHALL BE SCHEDULE 40 BLACK STEEL.
- CHILLED WATER PIPING 2" AND SMALLER SHALL BE TYPE "L" COPPER. CHILLED WATER PIPING 2-1/2" AND LARGER SHALL BE SCHEDULE 40 BLACK STEEL.
- REFRIGERANT PIPING SHALL BE TYPE "L" OR "ACR" COPPER, UNLESS NOTED OTHERWISE.
- ALL PIPING SHOWN IS CONCEALED ABOVE CEILINGS UNLESS INDICATED OTHERWISE.
- PROVIDE PIPING SLEEVES AT ALL WALL PENETRATIONS. REFER TO SPECIFICATION FOR EXACT REQUIREMENTS.
- PROVIDE ISOLATION/SHUT-OFF VALVES AT ALL PIPING BRANCHES THAT HAVE TWO OR MORE HYDRONIC DEVICES.
- PIPING CONTRACTOR SHALL SUBMIT IN ADDITION TO THE COORDINATED SHOP DRAWINGS, AN INDIVIDUAL SHOP DRAWING SHOWING ALL MEANS OF HYDRONIC SYSTEM EXPANSION (HEATING AND CHILLED WATER SYSTEMS). CONTRACTOR CAN USE EXPANSION LOOPS, ANCHORS AND ROLLERS, EXPANSION COMPENSATORS OR A COMBINATION OF BOTH. HYDRONIC EXPANSION LOCATIONS, METHODS, AND EQUIPMENT SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
- ALL RUN OUT PIPING TO HEATING DEVICES SHALL BE MINIMUM 3/4" UNLESS OTHERWISE NOTED, OR SCHEDULED. ALL RUNOUT PIPING TO HEATING DEVICES SHALL BE A MINIMUM OF 5'-0" IN LENGTH AND SHALL HAVE A MINIMUM OF 10' 0" ELBOWS, WHERE THESE REQUIREMENTS ARE NOT POSSIBLE DUE TO SPACE CONSTRAINTS, FLEXIBLE CONNECTIONS AT THE DEVICE SHALL BE PROVIDED.

MECHANICAL HVAC NOTES AND SPECIFICATIONS

- DUCTWORK DIMENSIONS LISTED ON THE DRAWINGS ARE CLEAR, INSIDE DIMENSIONS. WHEN DUCT LINER IS REQUIRED, INCREASE SHEET METAL DIMENSIONS ACCORDINGLY.
- FLEXIBLE DUCTWORK SHALL BE THE SAME SIZE AS THE NECK OF THE AIR DEVICE. FLEXIBLE DUCTWORK SHALL NOT EXCEED 8'-0" IN LENGTH. PROVIDE RIGID ROUND DUCTWORK FOR TAKEOFFS IN EXCESS OF 8'-0".
- UNLESS INDICATED OTHERWISE, BRANCH TAKEOFFS ARE TO BE THE SAME SIZE AS THE DIFFUSER NECK SIZE INDICATED.
- PROVIDE DUCT TRANSITIONS FROM EQUIPMENT CONNECTIONS TO DUCT SIZES INDICATED AS REQUIRED.
- PROVIDE A FLEXIBLE CONNECTION TO THE TAKE AND DISCHARGE OF ALL MECHANICAL EQUIPMENT HAVING ROTATING PARTS. FLEXIBLE CONNECTION SHALL COMPLY WITH ALL APPLICABLE CODES.
- ALL DUCTWORK SHALL BE A MINIMUM 26 GAUGE SHEETMETAL, OR AS REQUIRED BY ALL APPLICABLE CODES. ALL DUCTWORK CROSSING RATED CORRIDORS SHALL BE A MINIMUM 24 GAUGE SHEETMETAL. DUCT GAUGES SHALL MEET OR EXCEED SMACNA STANDARDS.
- ALL SUPPLY, RETURN AND EXHAUST DUCTWORK SHALL BE SEALED AIRTIGHT WITH DUCT SEALANT (SMACNA SEAL CLASS 'A') ALONG ALL SEAMS AND JOINTS.
- EXPOSED ROUND DUCTWORK SHALL BE SPIRAL WOUND, AND BE FREE OF IMPERFECTIONS AND DAMAGE. SEAL EXPOSED DUCTWORK IN A NEAT AND WORKMANLIKE MANNER SUITABLE FOR PAINTING.
- EXPOSED DUCTWORK SHALL HAVE A GALVANIZED FINISH. EXPOSED DUCTWORK SHALL BE PROVIDED WITH A PAINT-LOCK PRIMER. PAINTING OF DUCTWORK IN FIELD TO BE BY THE GC.
- ALL UNLINED DUCTWORK THAT IS VISIBLE THROUGH THE AIR DEVICE SHALL BE PAINTED FLAT BLACK.
- MAINTAIN A MINIMUM 10'-0" SEPARATION FROM OUTSIDE AIR INTAKES TO EXHAUST TERMINATIONS AND FLUE OUTLETS.
- MAINTAIN A MINIMUM OF 15'-0" FROM OUTSIDE AIR INTAKES TO PLUMBING VENTS.
- MAINTAIN A MINIMUM 3'-0" SEPARATION FROM EXHAUST TERMINATIONS TO OPERABLE WINDOWS AND DOORS.
- ALL ELBOWS, BOTH HORIZONTAL AND VERTICAL, SHALL BE LONG RADIUS ELBOWS WHEREVER POSSIBLE, OR SHALL HAVE TURNING VANES WHERE SHOWN.
- BRANCH FITTINGS SERVING GRILLES AND DIFFUSERS SHALL BE CONICAL (OR 45° TAKEOFFS AS SHOWN ON DRAWINGS). PROVIDE WITH MANUAL VOLUME DAMPERS UNLESS THE AIR TERMINAL IS PROVIDED WITH AN O&M.
- SPIN-IN FITTINGS SERVING VAV TERMINALS SHALL BE CONICAL, WITHOUT MANUAL VOLUME DAMPERS WHERE APPLICABLE.
- COORDINATE THE LOCATION AND ELEVATION OF ALL EXPOSED DUCTWORK WITH THE ARCHITECT AT THE JOB SITE PRIOR TO INSTALLATION.
- FLUES FOR BOILERS, WATER HEATERS AND POOL HEATERS SHALL BE ENGINEERED BY THE FLUE MANUFACTURER, BASED ON ACTUAL EQUIPMENT, AND SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
- ALL DUCTWORK SERVING CHEMICAL STORAGE ROOMS SHALL BE CONSTRUCTED OF SCHEDULE 40 CPVC PIPE. PVC COATED STEEL DUCTWORK IS NOT ACCEPTABLE.
- DIVISION 16 SHALL PROVIDE A 120 VOLT, 20 AMP CIRCUIT FOR THE DDC SYSTEM LOCATED IN THE ROOM HOUSING THE DDC COMPUTER. DIVISION 16 SHALL PROVIDE MULTIPLE 20 AMP CIRCUITS IN THE CEILING SPACE TO SERVE VAV TERMINAL CONTROL TRANSFORMERS. EXACT CIRCUIT LOCATIONS SHALL BE COORDINATED WITH THE TEMPERATURE CONTROLS CONTRACTOR. DIVISION 16 SHALL PROVIDE ONE PHONE CONNECTION LOCATED IN THE ROOM HOUSING THE DDC COMPUTER. COORDINATE EXACT ROOM WITH THE OWNER.
- MOTOR STARTERS SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR AS REQUIRED FOR ALL NEW MECHANICAL EQUIPMENT.

NO.	DATE:	TITLE/PURPOSE:
1	1/22/2024	100% DD

SCALE: NONE

ISSUE DATE: 01/22/2024

DRAWN BY: BMG

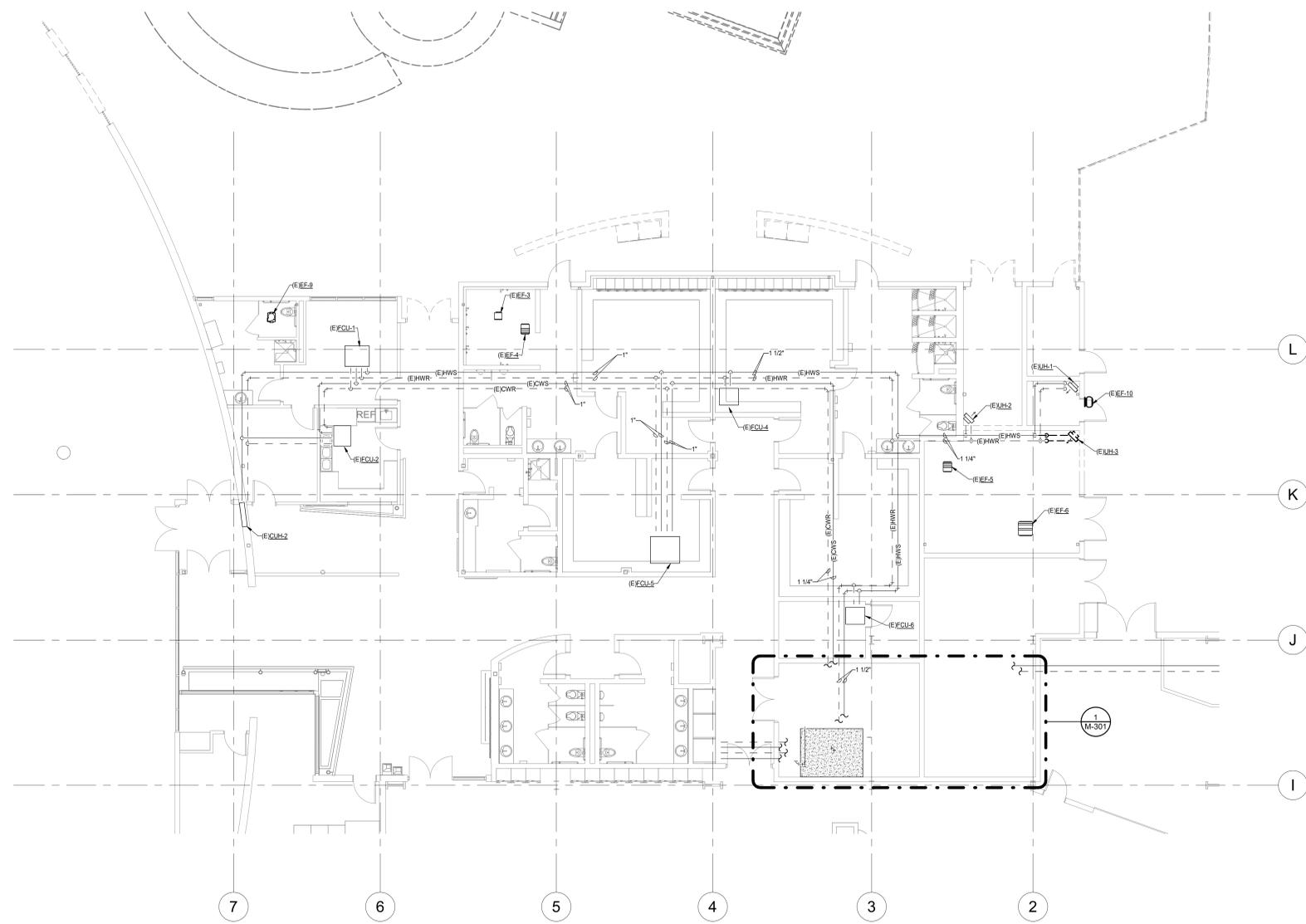
REV'D BY: PWF

PROJECT #: 23079

TITLE: MECHANICAL COVER SHEET

SHEET #: M-000

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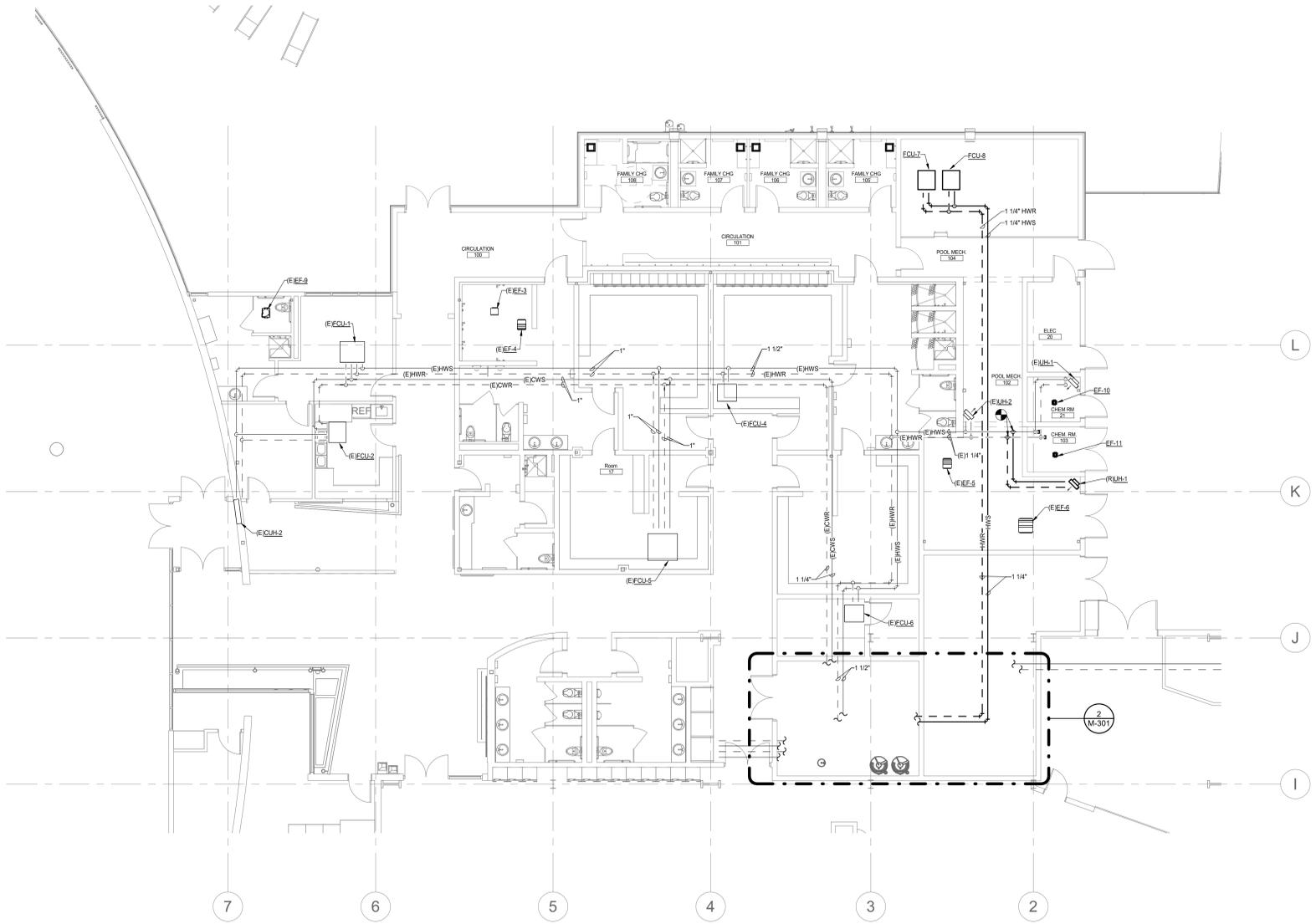
HVAC DEMO PIPING FLOOR PLAN
SCALE: 1/8" = 1'-0"

Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

NO.	DATE:	TITLE/PURPOSE:
1	1/22/2024	100% DD

SCALE: 1/8" = 1'-0"
ISSUE DATE: 01/22/2024
DRAWN BY: BMG
REV'D BY: PWF
PROJECT #: 23079
TITLE: HVAC DEMO PIPING FLOOR PLAN
SHEET #: MD-201

**PRELIMINARY -
NOT FOR
CONSTRUCTION**



HVAC PIPING FLOOR PLAN
SCALE: 1/8" = 1'-0"



Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

NO.	DATE:	TITLE/PURPOSE:
1	1/22/2024	100% DD

SCALE: 1/8" = 1'-0"
ISSUE DATE: 01/22/2024
DRAWN BY: BMG
REV'D BY: PWF
PROJECT #: 23079
TITLE: HVAC PIPING FLOOR PLAN
SHEET #: **M-201**



2000 LAWRENCE STREET
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Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

FAN COIL UNIT SCHEDULE (HEATING ONLY)

PLAN CODE	MANUFACTURER & MODEL NO.	HEATING COIL										CFM	OA CFM	ESP	FAN ELECTRICAL			NC LEVEL	DIMENSIONS			OPER. WEIGHT	REMARKS
		MBH TOTAL	GPM	EWT	LWT	WPD	APD	EAT	LAT	WATTS/HP	VOLTS				Ø	L	W		H				
FCU-7		69.2	3.5	160.0	120.0	5.0	0.25	-20.0	90.0		750	750	1.0								NOTE: 1-5		
FCU-8		69.2	3.5	160.0	120.0	5.0	0.25	-20.0	90.0		750	750	1.0								NOTE: 1-5		

- NOTES:**
- HEATING WATER SYSTEM UTILIZES 35% PROPYLENE GLYCOL.
 - EQUIPMENT IS SELECTED AT A PROJECT ALTITUDE OF 6,800 FEET ABOVE SEA LEVEL.
 - PROVIDE EC MOTOR ON SUPPLY FAN WITH UNIT MOUNTED SPEED CONTROL FOR BALANCING.
 - PROVIDE UNIT WITH FACTORY PACKAGED CONTROLS AND A 7-DAY PROGRAMMABLE THERMOSTAT.
 - FAN COIL UNIT SHALL BE 100% OUTSIDE AIR. OUTSIDE AIR DAMPER SHALL BE REMOTE AND LOCATED AT OUTSIDE AIR LOUVER CONNECTION. REFER TO PLANS.

LOUVER SCHEDULE

PLAN CODE	MANUFACTURER & MODEL NO.	SERVICE	FREE AREA (SQ. FT.)	CFM	VEL. (FPM)	A.P.D. (IN. W.C.)	MOUNTING TYPE	MATERIALS	SIZE (INCHES)			REMARKS
									H	L	W	
LVR-1	RUSKIN ELF375DXH	(E)EF-3	0.2	200	870	0.16	STANDARD	NOTE: 1	12"	12"	4"	NOTES: 2,3,4
LVR-2	RUSKIN ELF375DXH	(E)EF-4	0.6	500	820	0.14	STANDARD	NOTE: 1	12"	26"	4"	NOTES: 2,3,4
LVR-3	RUSKIN ELF375DXH	FCU OA	2.6	1,500	572	0.07	STANDARD	NOTE: 1	24"	32"	4"	NOTES: 2,3,4
LVR-4	RUSKIN ELF15J	EF-12	0.2	120	750	0.12	STANDARD	NOTE: 1	8"	10"	2"	NOTES: 2,3
LVR-5	RUSKIN ELF15J	EF-13	0.2	120	522	0.06	STANDARD	NOTE: 1	8"	10"	2"	NOTES: 2,3
LVR-6	RUSKIN ELF15J	EF-14	0.2	120	522	0.06	STANDARD	NOTE: 1	8"	10"	2"	NOTES: 2,3
LVR-7	RUSKIN ELF15J	EF-15	0.2	120	522	0.06	STANDARD	NOTE: 1	8"	10"	2"	NOTES: 2,3

- NOTES:**
- EXTRUDED ALUMINUM.
 - PROVIDE LOUVER WITH 1/2" BIRD SCREEN.
 - PROVIDE LOUVER WITH 70% PVDF FINISH. CUSTOM COLOR SHALL BE MATCHED PER ARCHITECTURAL REQUIREMENTS.
 - HEAVY DUTY LOUVER WITH FRAME AND BLADE THICKNESS OF 0.125" MINIMUM.

FAN SCHEDULE

PLAN CODE	MANUFACTURER & MODEL NO.	TYPE	SERVICE	SONES	CFM	E.S.P. @ S.L.	RPM @ S.L.	MOTOR		DIMENSIONS (IN)			WT (LBS)	VIB. ISOL.	CONTROL	DAMPER TYPE	REMARKS
								HP	V/Ø/HZ	H	W	L					
EF-10	FANTECH FR 110	CHEMICAL	CHEM	8.0	130	0.50"	2,143	66W	115/1/60	11"	10"	50	NONE	NOTE: 5	NOTE: 2	NOTE: 1,3,4	
EF-11	FANTECH FR 110	CHEMICAL	CHEM	8.0	130	0.50"	2,143	66W	115/1/60	11"	10"	50	NONE	NOTE: 5	NOTE: 2	NOTE: 1,3,4	
EF-12	PANASONIC WHISPER FV-1115VK2	CEILING	CHANGING	0.3	120	0.25"	895	14W	115/1/60	7"	13"	13"	20	NONE	NOTE: 7	NOTE: 8	NOTE: 1,9
EF-13	PANASONIC WHISPER FV-1115VK2	CEILING	CHANGING	0.3	120	0.25"	895	14W	115/1/60	7"	13"	13"	20	NONE	NOTE: 7	NOTE: 8	NOTE: 1,9
EF-14	PANASONIC WHISPER FV-1115VK2	CEILING	CHANGING	0.3	120	0.25"	895	14W	115/1/60	7"	13"	13"	20	NONE	NOTE: 7	NOTE: 8	NOTE: 1,9
EF-15	PANASONIC WHISPER FV-1115VK2	CEILING	CHANGING	0.3	120	0.25"	895	14W	115/1/60	7"	13"	13"	20	NONE	NOTE: 7	NOTE: 8	NOTE: 1,9

- NOTES:**
- PROVIDE WITH MANUFACTURER'S ELECTRICAL DISCONNECT.
 - PROVIDE FAN WITH CPVC "ADJUSTABLE" MANUAL VOLUME DAMPER.
 - PROVIDE FAN WITH MANUFACTURER'S CLEAN AIR STACK FITTING AND MVD. REFER TO SECTION.
 - PROVIDE FAN WITH STAINLESS STEEL MOUNTING HARDWARE AND ALL CORROSION RESISTANT MATERIALS.
 - FAN SHALL OPERATE 24/7/365. PROVIDE A CHEMICAL EXHAUST FAN WARNING LIGHT. REFER TO DETAIL.
 - PROVIDE WITH SPRING VIBRATION ISOLATION.
 - FAN CONTROLLED BY TIME OF DAY SCHEDULE THROUGH THE BAS.
 - PROVIDE FAN WITH GRAVITY BACKDRAFT DAMPER.
 - PROVIDE WITH EC MOTOR. PROVIDE MOTOR MOUNTED POTENTIOMETER DIAL FOR FAN BALANCING.

GRILLES, REGISTERS & DIFFUSERS SCHEDULE

PLAN CODE	MANUFACTURER & MODEL NO.	TYPE & SERVICE	NECK SIZE (IN)	FACE SIZE (IN)	SLOT WIDTH/ SLOTS	VOLUME DAMPER (OBD)	MATERIAL	MOUNTING TYPE	FINISH	REMARKS
SG-1	PRICE 610	SUPPLY	AS NOTED	NECK + 2.5"	-	NO	ALUMINUM	SURFACE	NOTE: 2	NOTE: 1
SR-1	AIR CONCEPTS DL-C	SUPPLY	AS NOTED	NECK + 2.375"	-	YES	ALUMINUM	DUCT	NOTE: 2	NOTE: 3
TG-1	PRICE 630	TRANSFER	AS NOTED	NECK + 1.75"	-	NO	ALUMINUM	LAY-IN	WHITE	

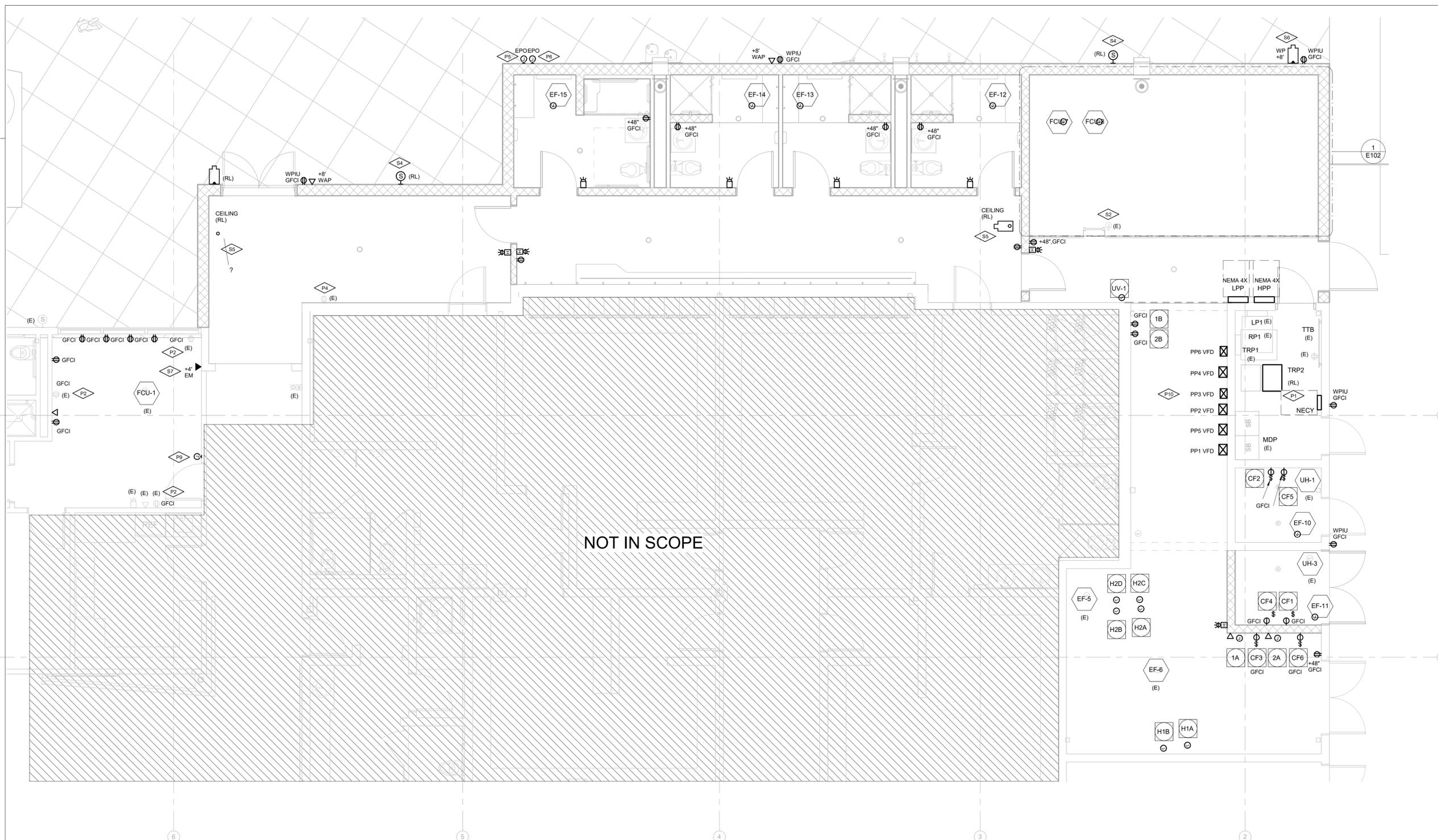
- NOTES:**
- DOUBLE DEFLECTION. 1" BLADE SPACING.
 - CUSTOM COLOR SELECTION BY ARCHITECT.
 - PROVIDE WITH OPPOSED BLADE DAMPER IN LIEU OF EXTRACTION DAMPER.

NO. DATE TITLE/PURPOSE:
1 1/22/2024 100% DD

SCALE: NONE
ISSUE DATE: 01/22/2024
DRAWN BY: BMG
REV'D BY: PWF
PROJECT #: 23079
TITLE: HVAC SCHEDULES
SHEET #: M-601

Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

NO. DATE: TITLE/PURPOSE:
01/22/2024 100% DESIGN DEVELOPMENT



1 FIRST FLOOR POWER & SYSTEMS PLAN
1/4" = 1'-0"

KEYNOTE LEGEND	
Key Value	Keynote Text
P1	MOUNT RELOCATED 75KVA TRANSFORMER ABOVE EXISTING. SUSPEND FROM STRUCTURE. REFER TO DETAIL 1 SHEET E510.
P2	REPLACE EXISTING NEMA 5-20R OUTLET WITH NEW NEMA 5-20R GFCI DEVICE.
P4	PROVIDE A NEW NEMA 5-20R DEVICE AND CONNECT TO EXISTING CIRCUIT.

KEYNOTE LEGEND	
Key Value	Keynote Text
P5	PROVIDE A RED MUSHROOM HEAD EPO SWITCH TO TURN OFF LAP POOL CIRCULATION PUMP, PP1, AND ALL PUMPS INTERLOCKED WITH IT. EPO SHALL BE 24V WITH A NORMALLY CLOSED MAINTAINED CONTACT. PROVIDE WP ENCLOSURE. LABEL "LAP POOL EMERGENCY SHUTOFF".

KEYNOTE LEGEND	
Key Value	Keynote Text
P6	PROVIDE A RED MUSHROOM HEAD EPO SWITCH TO TURN OFF LEISURE POOL CIRCULATION PUMP, PP5 AND ALL PUMPS INTERLOCKED WITH IT, PP4 AND PP6. EPO SHALL BE 24V WITH A NORMALLY CLOSED MAINTAINED CONTACT. PROVIDE WP ENCLOSURE. LABEL "LEISURE POOL EMERGENCY SHUTOFF".

KEYNOTE LEGEND	
Key Value	Keynote Text
P9	PROVIDE (4) REMOTE START/STOP PUSHBUTTONS AT THIS LOCATION. (1) FOR OPEN FLUME SLIDE PUMP PP2 LABELED "OPEN FLUME SLIDE", (1) FOR CLOSED FLUME SLIDE PUMP PP3 LABELED "OPEN FLUME SLIDE", (1) FOR CURRENT CHANNEL PUMP PP4 LABELED "CURRENT CHANNEL", (1) FOR SPRAY FEATURES PUMP PP6 LABELED "SPRAY FEATURE".
P10	VFD DRIVES ARE FURNISHED BY THE POOL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. TYPICAL (6) ALONG THIS WALL.

KEYNOTE LEGEND	
Key Value	Keynote Text
S2	EXISTING SATELLITE MOUNTED TO SOFFIT TO REMAIN. CABLE WILL NEED TO BE REROUTED THROUGH THE NEW ADDITION AND RECONNECTED. PROTECT DURING CONSTRUCTION.
S4	MOUNT RELOCATED SPEAKERS AS HIGH UP ON WALL AS POSSIBLE. RECONNECT TO EXISTING SOUND SYSTEM.
S5	RELOCATED CAMERA FROM OUTSIDE.
S6	NEW WALL MOUNTED CAMERA, MATCH EXISTING CAMERA MANUFACTURER.

KEYNOTE LEGEND	
Key Value	Keynote Text
S7	PROVIDE EMERGENCY PHONE WITH DIRECT DIAL TO "911" WHEN PICKED UP.

SCALE: 1/4" = 1'-0"
ISSUE DATE: 01/22/2024
PROJECT #: 23079
TITLE: FIRST FLOOR POWER & SYSTEMS PLAN

SHEET #:

E101



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CONSTRUCTION**

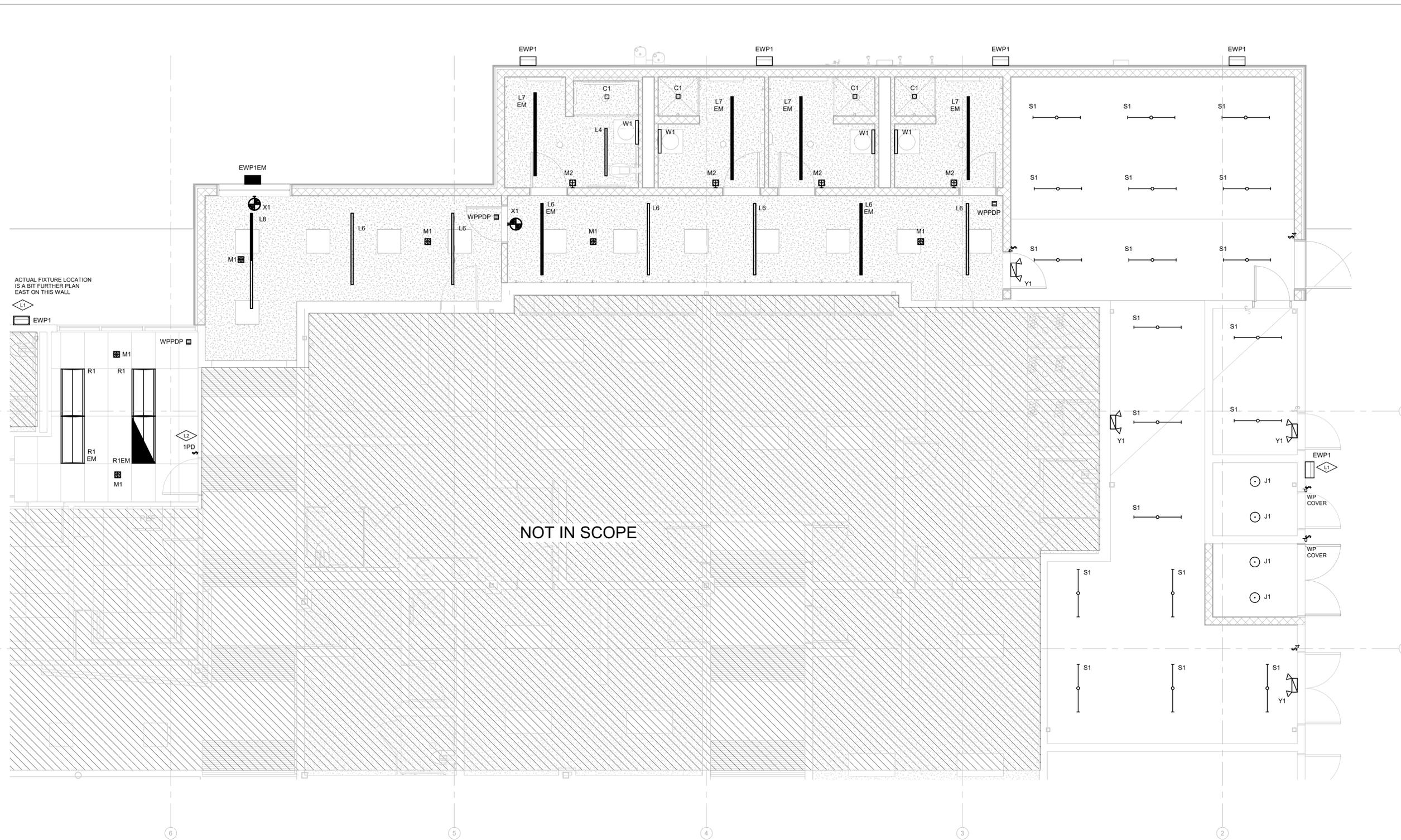


Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

NO. DATE: TITLE/PURPOSE:
01/22/2024 100% DESIGN DEVELOPMENT

SCALE: 1/4" = 1'-0"
ISSUE DATE: 01/22/2024
PROJECT #: 23079
TITLE: ELECTRICAL LIGHTING PLAN

SHEET #:
E111



ACTUAL FIXTURE LOCATION IS A BIT FURTHER PLAN EAST ON THIS WALL

L1

EWP1

WPPDP

M1

R1

R1EM

M1

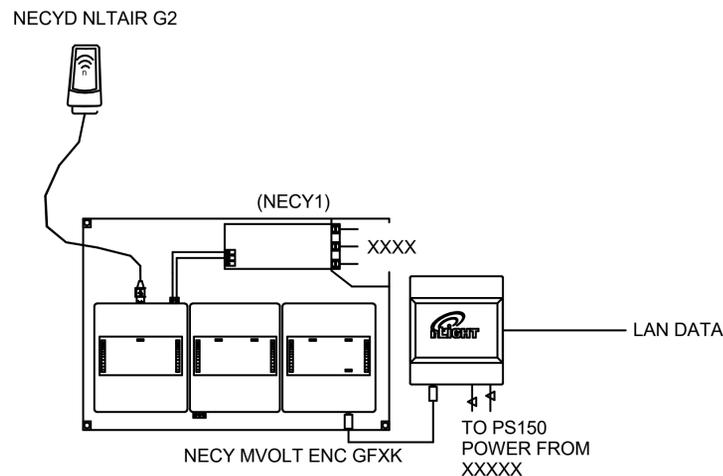
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NOT IN SCOPE

1 FIRST FLOOR LIGHTING PLAN
1/4" = 1'-0"

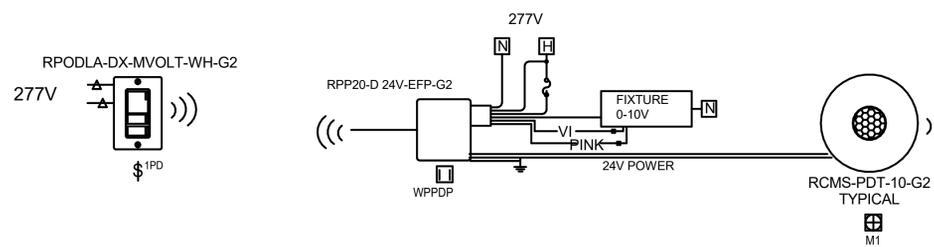
KEYNOTE LEGEND	
Key Value	Keynote Text
L1	NEW LIGHT REPLACES EXISTING LIGHT ONE FOR ONE. CONNECT TO EXISTING CIRCUIT AT THIS LOCATION.
L2	SWITCH WILL BE POWERED BY EXISTING 277V CIRCUIT AT THIS LOCATION.

**NOT FOR
CONSTRUCTION**



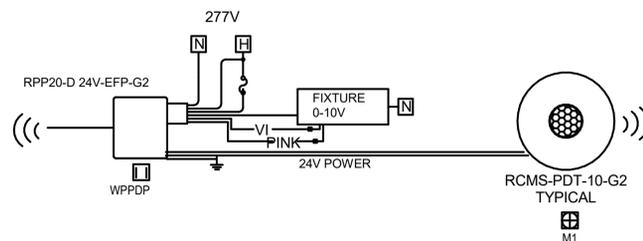
1
E520 **EXTERIOR LIGHT WIRELESS CONTROL**
SCALE: NONE

- NOTES:
1. MOUNT WIRELESS ANTENNA ON THE NORTH EXTERIOR WALL OF THE ELECTRICAL ROOM.
 2. PROGRAM WITH OWNER. EXTERIOR LIGHTS SHALL BE TIMECLOCK ON/OFF WITH A PHOTOCELL OVERRIDE.
 3. USE LAN LINE TO CONNECT CONTROL SYSTEM INTO BUILDINGS NETWORK. PROGRAM WITH AURORA IT SO THAT OWNER CAN GAIN ACCESS TO CONTROL EXTERIOR LIGHTS FROM A BUILDING COMPUTER OR REMOTELY.



2
E520 **LIGHTING CONTROL SCHEMATIC MOTION AND DIMMER SWITCH**
N.T.S.

1. DIAGRAM IS SCHEMATIC IN NATURE, REFER TO PLANS FOR QUANTITY OF DEVICES.
2. MOTION SENSORS SHALL BE SET TO VACANCY MODE. 20 MINUTE TIME OUT.



2
E520 **LIGHTING CONTROL SCHEMATIC MOTION ON/OFF**
N.T.S.

1. DIAGRAM IS SCHEMATIC IN NATURE, REFER TO PLANS FOR QUANTITY OF DEVICES.
2. MOTION SENSORS SHALL BE SET TO VACANCY MODE. 5 MINUTE DIM TO 50%. 20 MINUTE OFF..

LIGHTING CONTROL SCHEDULE				
KEY	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	NOTES
1PD	ON/OFF/DIM SWITCH	NLIGHT	RPODLA-DX-MVOLT-WH-G2	
M1	CEILING MOUNTED, DUAL TECH, WIRELESS COMMUNICATION, MOTION SENSOR	NLIGHT	RCMS-PDT-10-G2	POWER FROM RELAY PACK IN ROOM
M2	WALL MOUNTED, DUAL TECHNOLOGY MOTION SENSOR WITH ON/OFF SWITCH	SENSOR SWITCH	WSXA-PDT-VA-WH-LT	SET TO VACANCY MODE
WPPDP	RELAY PACK, WIRELESS COMMUNICATION, POWER TO MOTION SENSORS	NLIGHT	RPP20-D 24V-EFP-G2	

NO. DATE: TITLE/PURPOSE:
01/22/2024 100% DESIGN DEVELOPMENT

SCALE:
ISSUE DATE: 01/22/2024
PROJECT #: 23079
TITLE: ELECTRICAL LIGHTING DETAILS

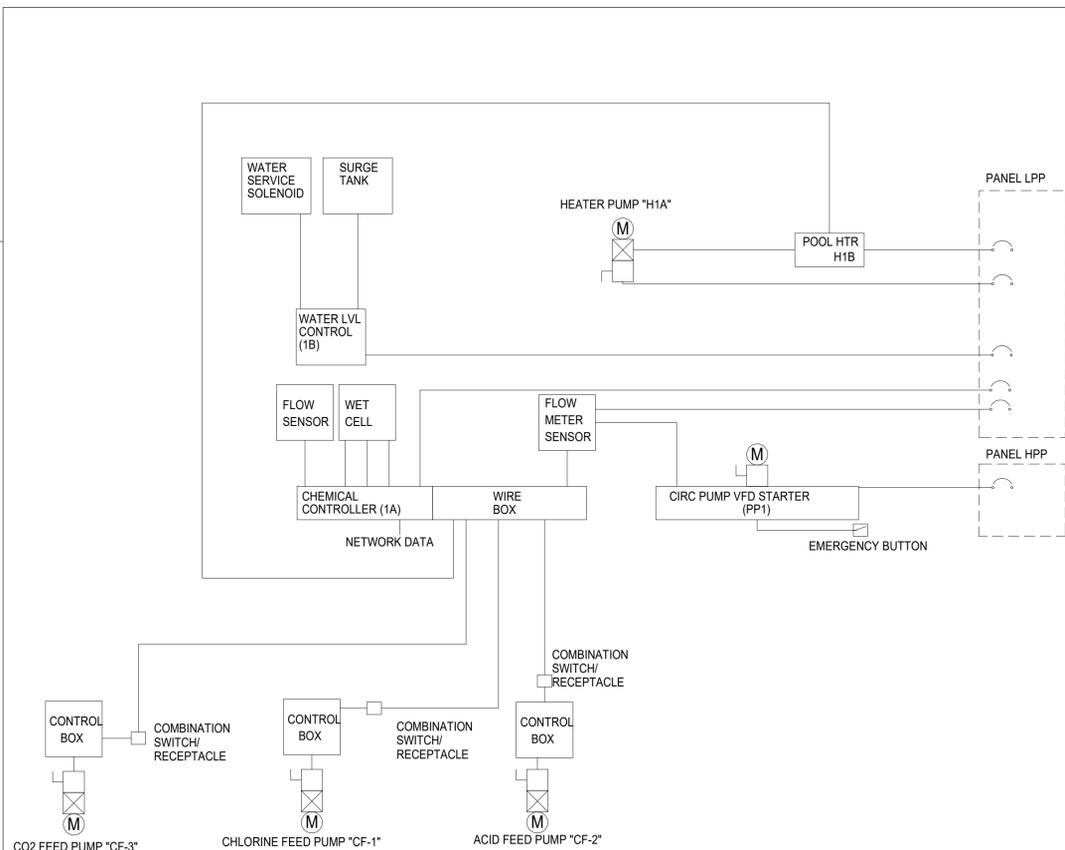
SHEET #:
E520

Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

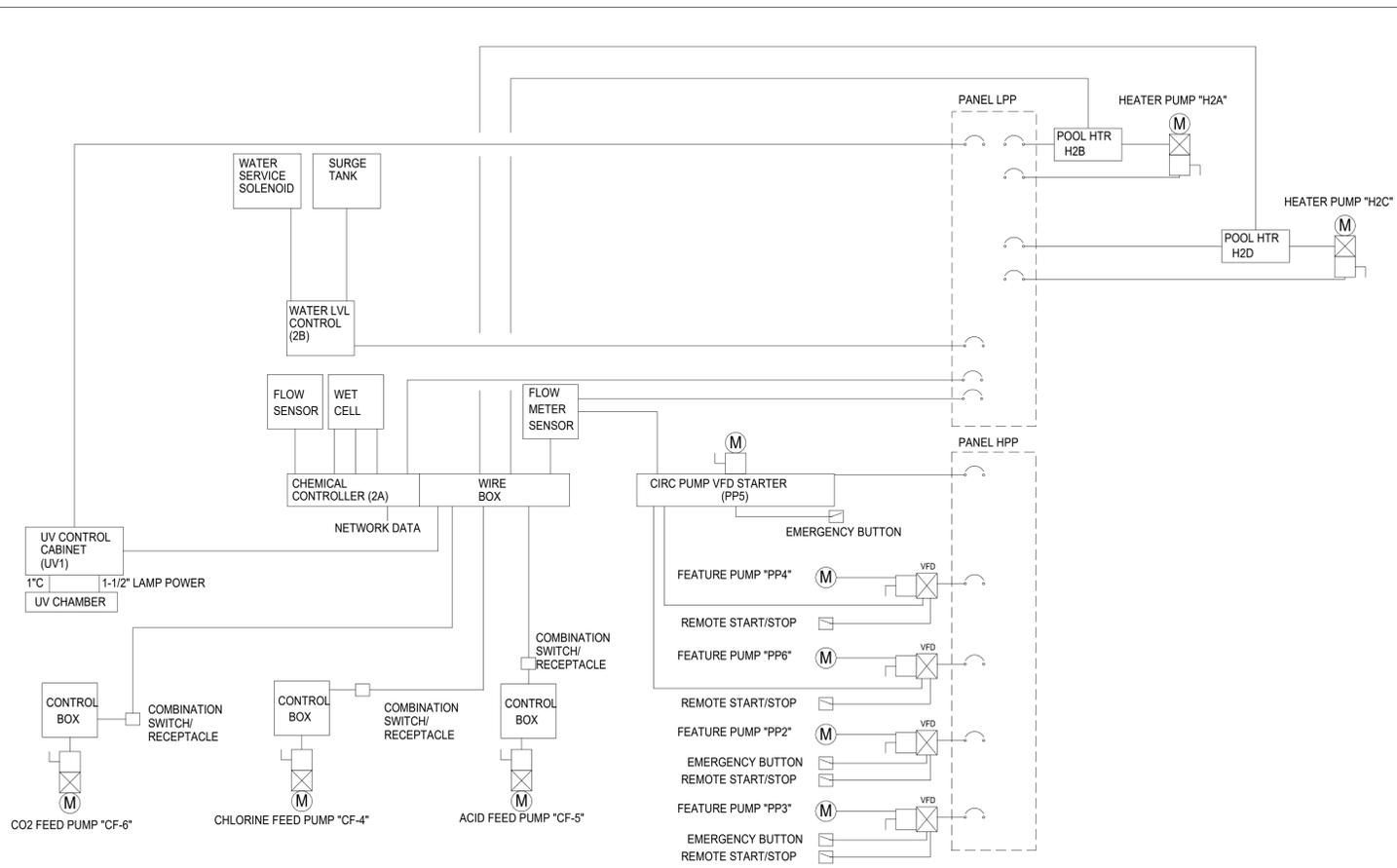
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Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631



1 LAP POOL WIRING SCHEMATIC
E530 SCALE: NONE



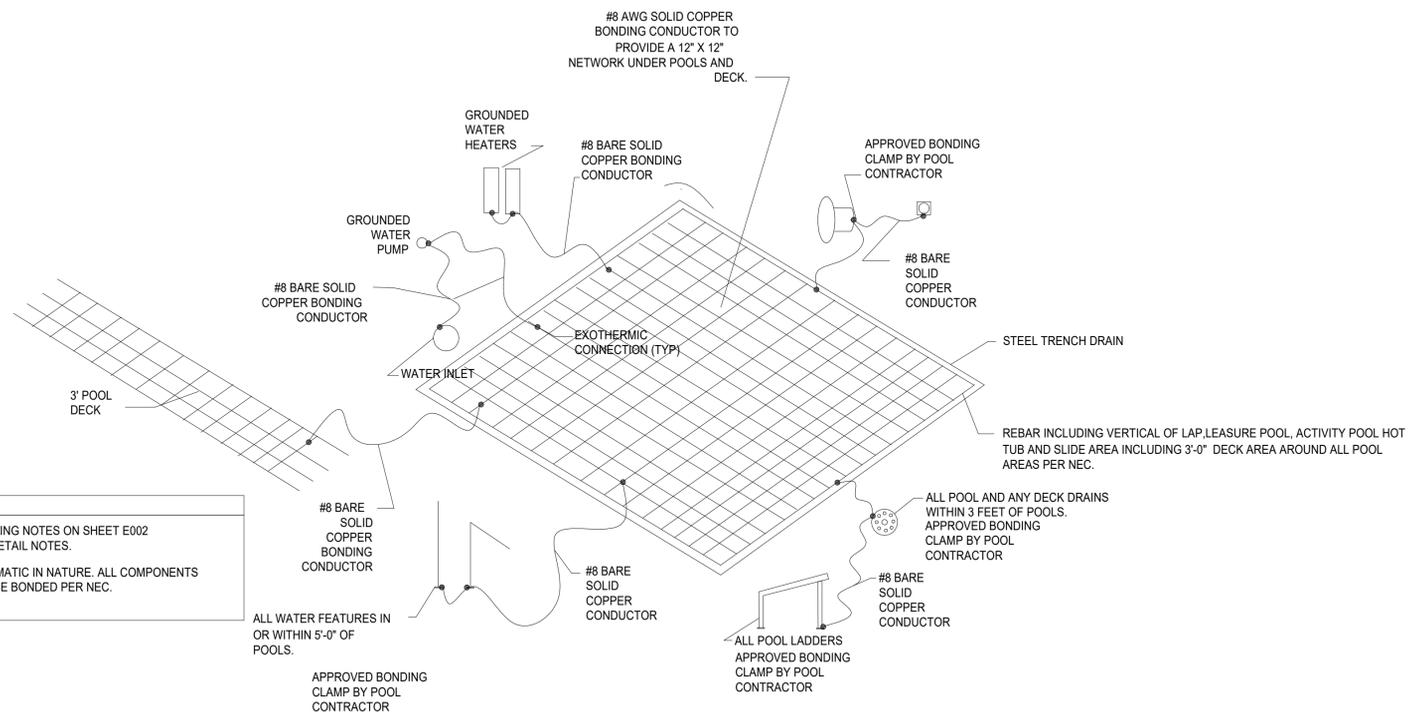
2 REC POOL WIRING SCHEMATIC
E530 SCALE: NONE

POOL SCHEMATIC NOTES:

- ITEMS IN LIGHT LINE WEIGHT ARE PROVIDED BY OTHERS. ITEMS IN DARK LINE WEIGHT ARE PROVIDED BY THE ELECTRICAL CONTRACTOR.
- CONDUCTOR SIZES AND CONDUITS FOR POWER TO PUMPS, SIZE OF DISCONNECTS AND SIZE OF OVERCURRENT PROTECTION FOR MOTORS IS PER THE POOL EQUIPMENT SCHEDULE.
- POOL CONTRACTOR TO FURNISH VFDs. ELECTRICAL CONTRACTOR SHALL MOUNT STARTER/DISCONNECTS ON UNISTRUT RACK ABOVE PUMP PIT PUMPS AS SHOWN ON PLANS AND CONNECT.
- LOW VOLTAGE CABLES ARE PROVIDED BY POOL CONTRACTOR. THESE ARE SHOWN IN LIGHT LINEWEIGHT. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUITS FOR LOW VOLTAGE CABLE. CONDUITS TO BE 1/2" UNLESS NOTED OTHERWISE OR REQUIRED BY THE POOL CONTRACTOR, COORDINATE WITH POOL CONTRACTOR PRIOR TO ROUGH-IN.
- ELECTRICAL CONTRACTOR IS PROVIDING 120V POWER AND UP. ALL ELECTRICAL CONTACTS, DISCONNECTS AND OVERCURRENT PROTECTION IS BY ELECTRICAL CONTRACTOR PER THE PLANS.
- COORDINATE CONTACTS AND INTERLOCKS WITH POOL CONTRACTOR SO THAT ENOUGH ARE PROVIDED FOR THEIR SEQUENCE OF CONTROLS.
- SHUTTING OFF THE FILTER PUMP SHALL SHUTOFF ALL OTHER POOL EQUIPMENT, INCLUDING HEATERS AND CHEMICAL FEEDS.
- PROVIDE INTERLOCKING CONTACTS IN WIRING BOX. WHEN CIRCULATION PUMP IS OFF IT SHALL TURN OFF ALL CHEMICAL AND ACID FEEDS, HEATERS, AND FEATURE PUMPS ASSOCIATED WITH THE CIRCULATION PUMP POOL.

GENERAL NOTES

- SEE POOL BONDING NOTES ON SHEET E002 FOR SPECIFIC DETAIL NOTES.
- DETAIL IS SCHEMATIC IN NATURE. ALL COMPONENTS THAT NEED TO BE BONDED PER NEC.



3 TYPICAL POOL EQUIPOTENTIAL GRID SCHEMATIC
E530 SCALE: NONE

NO.	DATE:	TITLE/PURPOSE:
	01/22/2024	100% DESIGN DEVELOPMENT

SCALE:
ISSUE DATE: 01/22/2024
PROJECT #: 23079
TITLE: ELECTRICAL POOL DETAILS

SHEET #:
E530



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Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

NO. DATE: TITLE/PURPOSE:
01/22/2024 100% DESIGN DEVELOPMENT

SCALE:
ISSUE DATE: 01/22/2024
PROJECT #: 23079
TITLE: ELECTRICAL SCHEDULES

SHEET #:
E601

LUMINAIRE SCHEDULE									
KEY	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMP		VOLTS	MOUNTING	NOTES	MAX VA
				QTY	TYPE				
C1	LED, SQUARE SURFACE MOUNTED, WET LISTED, DOWNLIGHT	DMF LIGHTNG	DRD5S4S109350	1	LED	277	SURFACE	MOUNT IN RECESSED 40 OCTAGONAL JUNCTION BOX	12
EP1	LED, ROUND PUCK STYLE AREA LIGHT, MOUNT TO A 20' POLE	LITHONIA	RAD1LED-P3-27K-ASY-MVOL T-RPA-NLTAIR2-CUSTOM COLOR	1	LED	277	POLE, 20' ROUND STRAIGHT STEEL WITH PLANTER ARMS	PROVIDE WITH ISBOR MOTION SENSOR. COLOR TO MATCH EXISTING POLES IN PARKING LOT	54
EWP1	LED, EXTERIOR WALL PACK	LITHONIA	WST LED-P2-27K-VF-MVOLT-NLT AIR2 PIR-DBLXD	1	LED	277	WALL, +8' AFF		25
EWP1EM	LED, EXTERIOR WALL PACK, EM BATTERY	LITHONIA	WST LED-P2-27K-VF-MVOLT-NLT AIR2 PIR-E20WC-DBLXD	1	LED	277	WALL, +8' AFF		25
J1	LED, HAZARD LOCATION RATED, SEALED, JELLY JAR	AZZ RIGALITE	AVPH-LED-U-HF-G-C	1	LED	277	SURFACE		26
L4	LED, 4' SURFACE LINEAR	MARK LIGHTING	S2SD-LSL-4'-MSL4-90CRI-35 K-1000LMF-SCT-MIN10-CLL-MVOLT-WHTT	1	LED	277	SURFACE		32
L6	LED, 6' SURFACE LINEAR	MARK LIGHTING	S2SD-LSL-6'-MSL6-90CRI-35 K-1000LMF-SCT-MIN10-CLL-MVOLT-WHTT	1	LED	277	SURFACE		48
L6 EM	LED, 6' SURFACE LINEAR, EM BATTERY	MARK LIGHTING	S2SD-LSL-6'-MSL6-90CRI-35 K-1000LMF-SCT-MIN10-CLL-MVOLT-WHTT-E10WLCP	1	LED	277	SURFACE		48
L7 EM	LED, 7' SURFACE LINEAR, EM BATTERY	MARK LIGHTING	S2SD-LSL-7'-MSL7-90CRI-35 K-1000LMF-SCT-MIN10-CLL-MVOLT-WHTT-E10WLCP	1	LED	277	SURFACE		56
L8	LED, 8' SURFACE LINEAR	MARK LIGHTING	S2SD-LSL-8'-MSL8-90CRI-35 K-1000LMF-SCT-MIN10-CLL-MVOLT-WHTT	1	LED	277	SURFACE		64
R1	LED, 2X4 RECESSED TROFFER	LITHONIA	ENVX-2X4-HRG-4000LM-90C RI-35K-MIN1-EZT-MVOLT	1	LED	277	RECESSED		33
R1 EM	LED, 2X4 RECESSED TROFFER, EM BATTERY								
R1EM	LED, 2X4 RECESSED TROFFER, EM BATTERY	LITHONIA	ENVX-2X4-HRG-4000LM-90C RI-35K-MIN1-EZT-MVOLT-E10WLCP	1	LED	277	RECESSED		33
S1	LED, 4' STRIP	LITHONIA	CSS-L48-4000LM-MVOLT-35 K-80CRI-ZACVH M100	1	LED	277	SURFACE	MOUNT TO SURFACE UNLESS THERE ARE PIPES THEN USE AIRCRAFT CABLE TO MOUNT BELOW PIPES.	35
W1	LED, 20" LONG VANITY WALL SCNCE	MODERN FORMS	WS-21718-3500K-BN	1	LED	277	WALL, ABOVE MIRROR		16
X1	LED, UNIVERSAL MOUNT EXIT SIGN, WHITE BACKGROUND, RED LETTERS	LITHONIA	LQM-S-W-3-R-MVOLT-ELN	1	LED	277	WALL, ABOVE DOOR		5
Y1	LED, EMERGENCY LIGHT	LITHONIA	ELM4L	2	LED	277	WALL, ABOVE DOOR OR 7' AFF		5

MECHANICAL SCHEDULE											
KEY	EQUIPMENT	LOAD	VOLTS	PH	BRANCH CIRCUIT CONDUCTORS	COND.	DISCONNECT	CIRCUIT BREAKER	CIRCUIT		NOTES
									PANEL	NUMBER	
EF-10	CHEMICAL ROOM EXHAUST FAN	66	120	1	2#12,1#12G	1/2"	THERMAL OL SWITCH	20A/1P, GFCI	LPP	15	
EF-11	ACID ROOM EXHAUST FAN	66	120	1	2#12,1#12G	1/2"	THERMAL OL SWITCH	20A/1P, GFCI	LPP	15	
EF-12	CHANGING ROOM FAN	14	120	1	2#12,1#12G	1/2"	THERMAL OL SWITCH	20A/1P	LPP	16	
EF-13	CHANGING ROOM FAN	14	120	1	2#12,1#12G	1/2"	THERMAL OL SWITCH	20A/1P	LPP	16	
EF-14	CHANGING ROOM FAN	14	120	1	2#12,1#12G	1/2"	THERMAL OL SWITCH	20A/1P	LPP	16	
EF-15	CHANGING ROOM FAN	14	120	1	2#12,1#12G	1/2"	THERMAL OL SWITCH	20A/1P	LPP	16	
FCU-7	FAN COIL UNIT POOL MECH ROM	656	120	1	2#12,1#12G	1/2"	THERMAL OL SWITCH	20A/1P, GFCI	LPP	17	
FCU-8	FAN COIL UNIT POOL MECH ROM	656	120	1	2#12,1#12G	1/2"	THERMAL OL SWITCH	20A/1P, GFCI	LPP	14	
GWH-1	GAS FIRED WATER HEATER CONTROL CIRCUIT	1500	120	1	2#12,1#12G	1/2"	--	20A/1P	LPP	18	
GWH-2	GAS FIRED WATER HEATER CONTROL CIRCUIT	1500	120	1	2#12,1#12G	1/2"	--	20A/1P	LPP	19	
PP-1	WATER HEATER CIRC PUMP	656	120	1	2#12,1#12G	1/2"	--	20A/1P	LPP	21	

POOL EQUIPMENT SCHEDULE													
KEY	EQUIPMENT	LOAD	VOLTS	PH	CONDUCTORS	COND.	STARTER/DISCONNECT DISCONNECT	STARTER	CIRCUIT BREAKER	CIRCUIT		NOTES	
										PANEL	NUMBER		
1A	LAP POOL CHEMICAL CONTROLLER	1800	120	1	2#12,1#12G	1/2"	--		20A/1P, GFCI	LPP	4		
1B	LAP POOL WATER LEVEL CONTROLLER	120	120	1	2#12,1#12G	1/2"	NEMA 5-20R, GFCI		20A/1P	LPP	7		
2A	REC POOL CHEMICAL CONTROLLER	1800	120	1	2#12,1#12G	1/2"	--		20A/1P, GFCI	LPP	6		
2B	REC POOL WATER LEVEL CONTROLLER	120	120	1	2#12,1#12G	1/2"	NEMA 5-20R, GFCI		20A/1P	LPP	7		
CF1	LAP POOL CHLORINE FEED PUMP	500	120	1	2#12,1#12G	1/2"	NEMA 5-20R, GFCI, SWITCHED		PROVIDED IN CHEMICAL CONTROLLER			POWER FROM LAP POOL CHEMICAL CONTROLLER	
CF2	LAP POOL ACID FEED PUMP	50	120	1	2#12,1#12G	1/2"	NEMA 5-20R, GFCI, SWITCHED		PROVIDED IN CHEMICAL CONTROLLER			POWER FROM LAP POOL CHEMICAL CONTROLLER	
CF3	LAP POOL CO2 FEED PUMP	50	120	1	2#12,1#12G	1/2"	NEMA 5-20R, GFCI, SWITCHED		PROVIDED IN CHEMICAL CONTROLLER			POWER FROM LAP POOL CHEMICAL CONTROLLER	
CF4	REC POOL CHLORINE FEED PUMP	500	120	1	2#12,1#12G	1/2"	NEMA 5-20R, GFCI, SWITCHED		PROVIDED IN CHEMICAL CONTROLLER			POWER FROM REC POOL CHEMICAL CONTROLLER	
CF5	REC POOL ACID FEED PUMP	50	120	1	2#12,1#12G	1/2"	NEMA 5-20R, GFCI, SWITCHED		PROVIDED IN CHEMICAL CONTROLLER			POWER FROM REC POOL CHEMICAL CONTROLLER	
CF6	REC POOL CO2 FEED PUMP	50	120	1	2#12,1#12G	1/2"	NEMA 5-20R, GFCI, SWITCHED		PROVIDED IN CHEMICAL CONTROLLER			POWER FROM REC POOL CHEMICAL CONTROLLER	
H1A	LAP POOL HEATER	2568	120	1	2#10,1#10G	1/2"	--		30A/1P, GFCI	LPP	9	PROVIDE VFD RATED CABLE FOR ANY WIRING BETWEEN VFDs AND PUMPS PROVIDED WITH HEATERS. INTERLOCK WITH FEATURE PUMP	
H1B	LAP POOL HEATER	2148	120	1	2#12,1#12G	1/2"	--		20A/1P, GFCI	LPP	11	PROVIDE VFD RATED CABLE FOR ANY WIRING BETWEEN VFDs AND PUMPS PROVIDED WITH HEATERS. INTERLOCK WITH FEATURE PUMP	
H2A	REC POOL HEATER	2568	120	1	2#10,1#10G	1/2"	--		30A/1P, GFCI	LPP	8	PROVIDE VFD RATED CABLE FOR ANY WIRING BETWEEN VFDs AND PUMPS PROVIDED WITH HEATERS. INTERLOCK WITH FEATURE PUMP	
H2B	REC POOL HEATER	2148	120	1	2#12,1#12G	1/2"	--		20A/1P, GFCI	LPP	12	INTERLOCK WITH FEATURE PUMP	
H2C	REC POOL HEATER	2568	120	1	2#10,1#10G	1/2"	--		30A/1P, GFCI	LPP	10	PROVIDE VFD RATED CABLE FOR ANY WIRING BETWEEN VFDs AND PUMPS PROVIDED WITH HEATERS. INTERLOCK WITH FEATURE PUMP	
H2D	REC POOL HEATER	2148	120	1	2#12,1#12G	1/2"	--		20A/1P, GFCI	LPP	13	INTERLOCK WITH FEATURE PUMP	
PP1	LAP POOL RECIRC, 25HP	28267	480	3	3#6,1#8G	1"	100A/3P	VFD	70A/3P	HPP	1,3,5	PROVIDE VFD RATED CABLE BETWEEN VFD AND MOTOR. CONNECT TO EMERGENCY STOP	
PP2	OPEN FLUME WATER SLIDE, 20HP	22447	480	3	3#8,1#10G	3/4"	60A/3P	VFD	50A/3P, GFCI	HPP	8,10,12	PROVIDE VFD RATED CABLE BETWEEN VFD AND PUMP. CONNECT TO EMERGENCY STOP	
PP3	CLOSED FLUME WATER SLIDE, 10HP	11639	480	3	3#10,1#10G	3/4"	30A/3P	VFD	30A/3P, GFCI	HPP	7,9,11	PROVIDE VFD RATED CABLE BETWEEN VFD AND PUMP. CONNECT TO EMERGENCY STOP	
PP4	CURRENT CHANNEL, 15HP	17459	480	3	3#10,1#10G	3/4"	60A/3P	VFD	40A/3P, GFCI	HPP	13,15,17	PROVIDE VFD RATED CABLE BETWEEN VFD AND PUMP. CONNECT TO EMERGENCY STOP	
PP5	REC RECIRC PUMP, 25HP	28267	480	3	3#6,1#8G	1"	100A/3P	VFD	70A/3P	HPP	2,4,6	PROVIDE VFD RATED CABLE BETWEEN VFD AND PUMP. CONNECT TO EMERGENCY STOP	
PP6	SPRAY FEATURE PUMP, 7.5HP	9145	480	3	3#12,1#12G	3/4"	30A/3P	VFD	20A/3P, GFCI	HPP	14,16,18	PROVIDE VFD RATED CABLE BETWEEN VFD AND MOTOR. CONNECT TO EMERGENCY STOP	
UV-1	UV SYSTEM CONTROL PANEL, 4.8A	576	120	1	2#12,1#12G	1/2"	--	--	20A/1P, GFCI	LPP	3	INTERLOCK WITH FEATURE PUMP	
UV-C	UV CHAMBER	--	120	1	2#12,1#12G	1/2"	--	--	20A/1P, GFCI			CONNECT TO CONTROL CABINET UV-1. REFER TO INSTALLATION INSTRUCTIONS.	

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Branch Panel: HPP

Location: POOL MECH. 104
 Supply From:
 Mounting: Surface
 Enclosure: NEMA 4X

Volts: 480/277 Wye
 Phases: 3
 Wires: 4

A.I.C. Rating: 65KAIC FULLY RATED
 Mains Type: MCB
 Mains Rating: 200A
 MCB Rating: 200A/3P

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1				9422...	9422...					2
3	PP1 LAP POOL CIRC PUMP [2]	70 A	3		9422...	9422...		70 A	PP5 REC POOL CIRC PUMP [2]	4
5						9422...	9422...			6
7				3880...	9422...					8
9	PP3 CLOSED SLIDE PUMP [1] [2]	30 A	3		3880...	9422...		50 A	PP2 OPEN FLUME SLIDE PUMP [1] [2]	10
11						3880...	9422...			12
13				5820...	3048...					14
15	PP4 CURRENT CHANNEL PUMP [1] [2]	40 A	3		5820...	3048...		20 A	PP6 SPRAY FEATURE [1] [2]	16
17						5820...	3048...			18
19										20
21										22
23										24
25				0 VA						26
27	TVSS UNIT	30 A	3		0 VA					28
29						0 VA				30
Total Load:				41015 VA	41015 VA	41015 VA				
Total Amps:				148 A	148 A	148 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Motor	123044 VA	105.74%	130111 VA	Total Conn. Load: 123044 VA Total Est. Demand: 130111 VA
				Total Conn.: 148 A
				Total Est. Demand: 156 A

Notes:

- [1] PROVIDE GFCI BREAKER
- [2] PROVIDE SHUNT TRIP

Branch Panel: LPP

Location: POOL MECH. 104
 Supply From:
 Mounting: Surface
 Enclosure: NEMA 4X

Volts: 120/208 Wye
 Phases: 3
 Wires: 4

A.I.C. Rating: 22KAIC FULLY RATED
 Mains Type: MCB
 Mains Rating: 250A
 MCB Rating: 250A/3P

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	C02 ALARM [1]	20 A	1	1500...	480 VA			20 A	REC POOL FLOCCULATION CONTROL PANEL	2
3	UV CONTROL PANEL [1]	20 A	1		576 VA	1800...		20 A	LAP POOL CHEMICAL CONTROLLER [1]	4
5	LAP POOL FLOCCULATION CONTROL PANEL	20 A	1			480 VA	1800...	20 A	REC POOL CHEMICAL CONTROLLER [1]	6
7	WATER LEVEL CONTROLLERS	20 A	1	240 VA	2568...			30 A	REC POOL HEATER [1]	8
9	LAP POOL HEATER [1]	30 A	1		2568...	2568...		30 A	REC POOL HEATER [1]	10
11	LAP POOL HEATER [1]	20 A	1			2148...	2148...	20 A	REC POOL HEATER [1]	12
13	REC POOL HEATER [1]	20 A	1	2148...	656 VA			20 A	FCU-8 FAN COIL UNIT POOL MECH [1]	14
15	EF-11,12 CHEM ROOM FAN [1]	20 A	1		132 VA	56 VA		20 A	LOCKER ROOM EXHAUST FANS	16
17	FCU-7 FAN COIL UNIT POOL MECH [1]	20 A	1			656 VA	1500...	20 A	GAS WATER HEATER GWH-1	18
19	GAS WATER HEATER GWH-2	20 A	1	1500...						20
21	WATER HEATER CIRC PUMP PP-1	20 A	1		656 VA					22
23										24
25										26
27										28
29										30
31										32
33										34
35										36
37										38
39										40
41										42
Total Load:				9092 VA	8356 VA	8732 VA				
Total Amps:				76 A	70 A	73 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Motor	656 VA	125.00%	820 VA	Total Conn. Load: 26180 VA
Power	25524 VA	100.00%	25524 VA	Total Est. Demand: 26344 VA
				Total Conn.: 73 A
				Total Est. Demand: 73 A

Notes:

- [1] PROVIDE GFCI BREAKER.



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NOT FOR CONSTRUCTION



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 hly@eysystems-inc.com

Mountain Recreation Eagle Pool
 1700 Bull Pasture Rd, Eagle, CO 81631

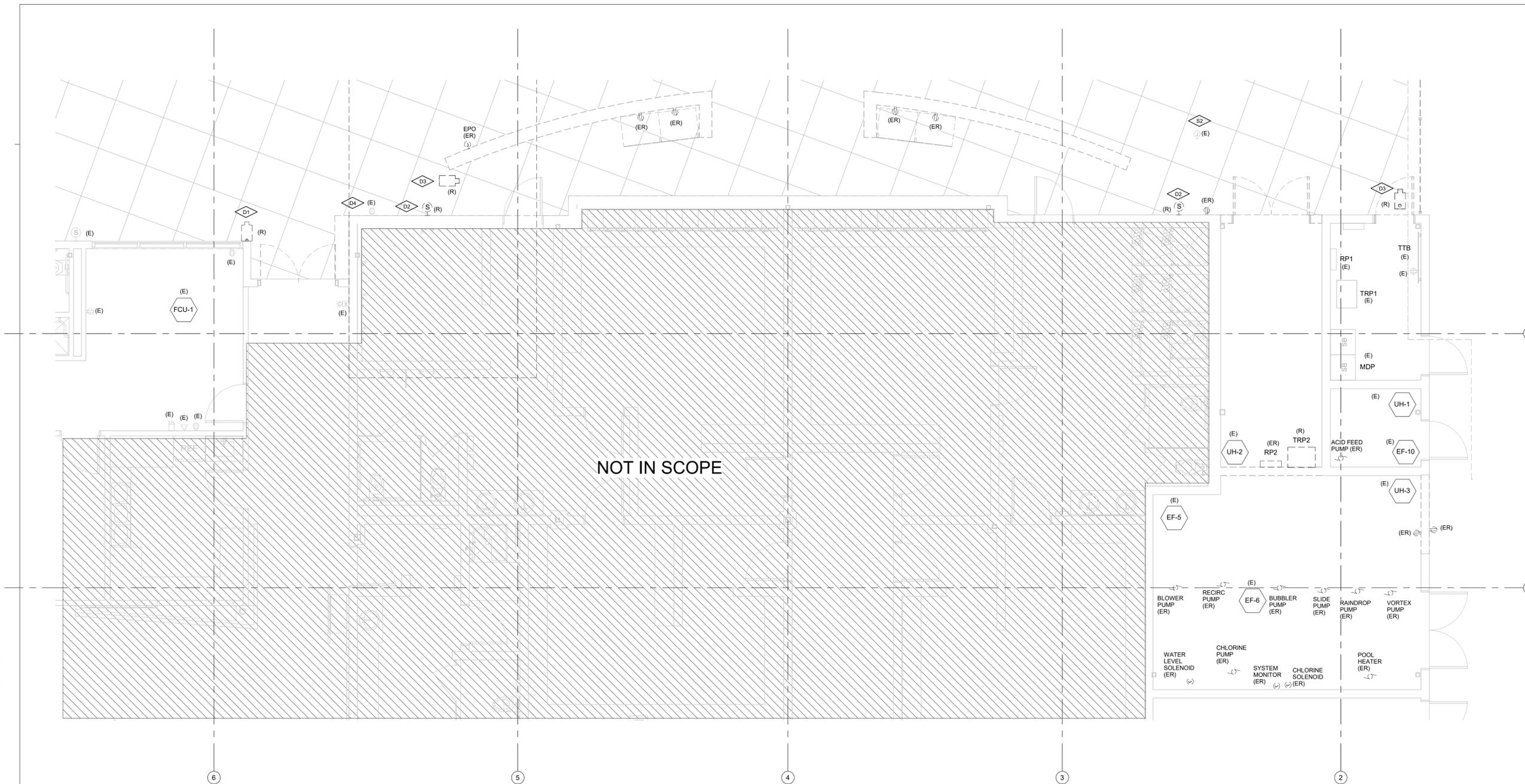
NO. DATE: TITLE/PURPOSE:
 01/22/2024 100% DESIGN DEVELOPMENT

SCALE:
 ISSUE DATE: 01/22/2024
 PROJECT #: 23079
 TITLE: ELECTRICAL PANEL SCHEDULES

SHEET #:
E610

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1 DEMO FIRST FLOOR POWER & SYSTEMS PLAN
1/4" = 1'-0"

KEYNOTE LEGEND	
Key Value	Keynote Text
D1	THERE ARE TWO CAMERAS AT THIS LOCATION THAT WILL BE RELOCATED TO NEW DOUBLE DOORS ON ADDITION. REFER TO NEW PLANS.
D2	EXISTING SPEAKERS TO BE RELOCATED TO NEW EXTERIOR WALL AND RECONNECTED. REFER TO NEW PLANS.
D3	CAMERA WILL BE RELOCATED INSIDE TO NEW ADDITION. REFER TO PLANS.
D4	REMOVE WPIU COVER AND GFCI DEVICE. A NEW NON GFCI WILL REPLACE IT.

KEYNOTE LEGEND	
Key Value	Keynote Text
S2	EXISTING SATELLITE MOUNTED TO SOFFIT TO REMAIN. CABLE WILL NEED TO BE REROUTED THROUGH THE NEW ADDITION AND RECONNECTED. PROTECT DURING CONSTRUCTION.



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Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

NO.	DATE:	TITLE/PURPOSE:
	01/22/2024	100% DESIGN DEVELOPMENT

SCALE: 1/4" = 1'-0"
ISSUE DATE: 01/22/2024
PROJECT #: 23079
TITLE: ELECTRICAL FIRST FLOOR DEMO POWER & SYSTEMS PLAN

SHEET #:
ED101



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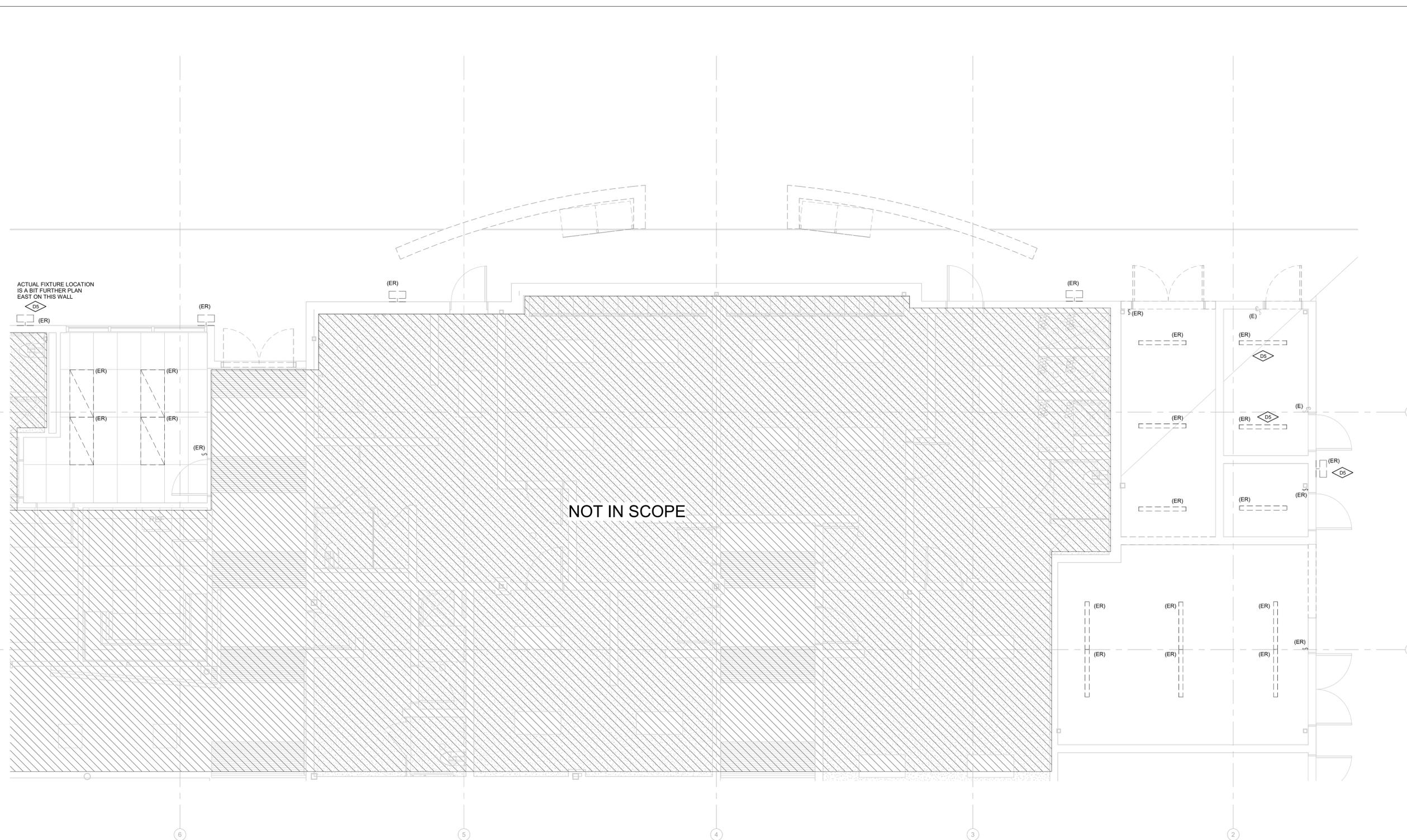


Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

NO. DATE: TITLE/PURPOSE:
01/22/2024 100% DESIGN DEVELOPMENT

SCALE: 1/4" = 1'-0"
ISSUE DATE: 01/22/2024
PROJECT #: 23079
TITLE: ELECTRICAL DEMO LIGHTING PLAN

SHEET #:
ED111



NOT IN SCOPE

ACTUAL FIXTURE LOCATION IS A BIT FURTHER PLAN EAST ON THIS WALL

1 DEMO FIRST FLOOR LIGHTING PLAN
1/4" = 1'-0"

KEYNOTE LEGEND	
Key Value	Keynote Text
D5	REMOVE EXISTING LIGHT BUT MAINTAIN CIRCUIT. A NEW FIXTURE MATCHING THE ADDITION WILL REPLACE THIS FIXTURE AT THIS LOCATION. REFER TO NEW PLANS.