Mountain Recreation Eagle Pool

Issue Date: 03/22/2024
Issued For: DESIGN DEVELOPMENT

ABBREVIATIONS

A		CTR.	CENTER	FURR.	FURRING	LKR.	LOCKER	PT	POST TENSIONED SLAB	SQ.	SQUARE
<	ANGLE	D		FUT.	FUTURE	LT.	LIGHT	PT.	PAINT	ST.	STAIN
@	AT	D.F.	DRINKING FOUNTAIN	G		LT. WT.	LIGHT WEIGHT	PTL	PORCELAIN TILE	STD.	STANDARD
A/C	AIR CONDITIONING	D.L.	DEADLOAD	G.B.	GRAB BAR	LVR.	LOUVER	PTN.	PARTITION	STL.	STEEL
AB	ANCHOR BOLT	D.S.	DOWN SPOUT	G.BK.	GLASS BLOCK	M		PV.	PAVEMENT	STOR.	STORAGE
ABV	ABOVE	DBL.	DOUBLE	G.C.	GENERAL CONTRACTOR	M.H.	MANHOLE	PVC	POLYVINYL CHLORIDE	STRUCT.	STRUCTURE or STRUCTURAL
ACT	ACCOUSTICAL CEILING TILE	DEG.	DEGREE	G.I.	GALVANIZED IRON	M.O.	MASONRY OPENING	Q		STS.	STAIR THREAD SYSTEM
AD	AREA DRAIN	DEPT.	DEPARTMENT	G.P.	GYM WALL PADDING	M.P.	MOVEABLE PARTITION	Q.T.	QUARRY TILE	SUSP.	SUSPEND(ED)
ADD'N	ADDITIONAL	DIA.	DIAMETER	GA.	GAUGE	M.S.B.	MOP SERVICE BASIN	R		SYM.	SYMMETRICAL
ADD.#	ADDENDUM NUMBER ___	DIAG.	DIAGONAL	GALV.	GLAVANIZED	MAS.	MASONRY	R.	RISER	SYS.	SYSTEM
ADJ	ADJACENT or ADJUSTABLE	DIM.	DIMENSION	GCMU	GLAZED CONCRETE MASONRY UNIT(S)	MAT'L.	MATERIAL	R.B.	RUBBER BASE	T	
AFF	ABOVE FINISHED FLOOR	DISP.	DISPENSER	GD.	GRADE	MAX.	MAXIMUM	R.C.P.	REFLECTED CEILING PLAN	T	TREAD
AFG	ABOVE FINISHED GRADE	DIV.	DIVISION	GL.	GLASS or GLAZING	MECH.	MECHANICAL	R.D.	ROOF DRAIN	T&B	TOP AND BOTTOM
AGGR	AGGREGATE	DN.	DOWN	GND.	GROUND	MET.	METAL	R.F.	RUBBER FLOORING	T&G	TONGUE AND GROOVE
AHU	AIR HANDLING UNIT	DP.	DAMPPROOFING	GRT.	GROUT	MFR.	MANUFACTURER	R.H.	RIGHT HAND	T.O.	TOP OF
ALT	ALTERNATE	DR.	DOOR	GT.	GROUT	MIN.	MINIMUM	R.H.R.	RIGHT HAND REVERSE	TB	TOWEL BAR
ALUM	ALUMINUM	DTL.	DETAIL	GWB	GYPSUM WALLBOARD	MISC.	MISCELLANEOUS	R.L.	RAIN LEADER	TCP	TIOLET COMP./SOLID PLASTIC
ANG	ANGLE	DWG.	DRAWING	GYP.	GYPSUM	MMB	MEMBRANE	R.O.	ROUGH OPENING	TEL	TELEPHONE
ANOD	ANODIZED	E		GYP. BD.	GYPSUM BOARD	MR.	MIRROR	R.O.D.	ROOF OVERFLOW DRAIN	TEMP	TEMPERED (ATURE)
APPROX	APPROXIMATE(LY)	E.	EAST	H		MTD.	MOUNT(ED)	R.R.T.	RUBBER RUNNING TRACK	THK.	THICK or THICKNESS
ARCH	ARCHITECTURAL	E.D.	EXHAUST DUCT	H.B.	HOSE BIB	MTL.	METAL	R.T.	RUBBER STAIR TREAD	THRU	THROUGH
ATTEN	ATTENUATION	E.I.F.S.	EXTERIOR INSULATION FINISH SYSTEM	H.C.	HOLLOW CORE	MUL	MULLION	R.W.F.	RESILIENT WOOD FLOORING	TOC	TOP OF CONCRETE
AUTO	AUTOMATIC	E.J.	EXPANSION JOINT	H.M.	HOLLOW METAL	N		RAD.	RADIUS	TOM	TOP OF MASONRY
AVG	AVERAGE	E.O.S.	EDGE OF SLAB	H.R.	HAND RAIL	N.	NORTH	RAF	RESILIENT ATHLETIC FLOORING	TOS	TOP OF STEEL
AWG	AMERICAN WIRE GAGE	E.T.S.	EXPOSED TO STRUCTURE	H.W.	HOT WATER	N.A.	NOT APPLICABLE	RE-BAR.	REINFORCING BAR	TPD	TOILET PAPER DISPENSER
B		E.W.C.	ELECTRIC WATER COOLER	HD.	HEAD	N.I.C.	NOT IN CONTRACT	RE.	REFER TO or REFERENCE	TS	TRANSITION STRIP
BD	BOX DRAIN	EA.	EACH	HDCP	HANDICAP(PED)	N.T.S.	NOT TO SCALE	REC.	RECESSED	TV	TELEVISION
BEAR	BEARING	EC.	MODIFIED EPOXY CEMENT	HDW.	HARDWARE	NEC'Y.	NECESSARY	RECPT.	RECEPTACLE	TYP	TYPICAL
BG	BUMPER GUARD	EL.	ELEVATION	HDWD.	HARDWOOD	NO.	NUMBER	REFRIG.	REFRIGERATOR or REFRIGERATED	TZ.	TERRAZZO
BLDG	BUILDING	ELEC.	ELECTRICAL	HORIZ.	HORIZONTAL	No. #	NUMBER	REG.	REGISTER	U	
BLK	BLOCK	ELEV.	ELEVATOR	HR.	HOUR	NOM.	NOMINAL	REINF.	REINFORCING	U	UP
BLK'G	BLOCKING	EM	ELASTOMERIC MEMBRANE	HT.	HEIGHT	O		REQ'D.	REQUIRED	UG.	UNDERGROUND
BM	BEAM or BENCHMARK	EMER.	EMERGENCY	HVAC	HEATING, VENTILATION & AIR CONDITIONING	O.A.	OVERALL	RESIL.	RESILIENT	UNF	UNFINISHED
BO	BY OWNER or BOTTOM OF	ENAM.	ENAMEL	I		O.C.	ON CENTER	REV.	REVISE, REVISED or REVISION	UON	UNLESS OTHERWISE NOTED
BOF	BY OWNER, FUTURE	ENGR.	ENGINEER	I.D.	INSIDE DIAMETER	O.D.	OUTSIDE DIAMETER	RFG.	ROOFING	UOS	UNLESS OTHERWISE SPECIFIED
BOT	BOTTOM	EPOXY	SEAMLESS EPOXY FLOOR	ID	INTERNATIONAL BUILDING CODE	O.R.D.	OVERFLOW ROOF DRAIN	RFL.	REFLECTED	URN.	URINAL
BSMT	BASEMENT	EQ. =	EQUAL	IM.	TREAD TRAINING MAT	O.T.O.	OUTSIDE-TO-OUTSIDE	RM.	ROOM	V	
BTU(H)	BRITISH THERMAL UNIT (HOUR)	EQUIP.	EQUIPMENT	IN	INCH	OFF.	OFFICE	RND	ROUND	(V)	VERIFY
C		EST.	ESTIMATED	INCAN	INCANDESCENT	OH.	OVER HEAD	S		VB	VINYL BASE
C.B.	CATCH BASIN	EXH.	EXHAUST	INFO	INFORMATION	OPN.	OPENING	S.	SOUTH	VCB	VENTED COVE BASE
C.C.	CUBICLE CURTAIN	EXIST.	EXISTING	INSUL	INSULATION	OPP.	OPPOSITE	S.A.P.	SUSPENDED ACOUSTICAL PANELS	VCT	VINYL COMPOSITION TILE
C.F.	CUBIC FEET	EXP.	EXPANSION	INT	INTERIOR	P		S.C.	SOLID CORE	VERT	VERTICAL
C.G.	CORNER GUARD	EXT.	EXTERIOR	INV	INVERT	P-LAM.	PLASTIC LAMINATE	S.C.D.	SEAT COVER DISPENSER	VEST	VESTIBULE
C.I.	CAST IRON	F		J		P.	PLASTIC	S.D.	SOAP DISPENSER	VF	VINYL FLOORING
C.I.P.	CAST IN PLACE	F.A.	FIRE ALARM	JB	JUNCTION BOX	P.A.C.	PREVIOUSLY AWARDED CONTRACT	S.F.	SQUARE FEET	VIF	VERIFY IN FIELD
C.J.	CONTROL JOINT	F.B.O.	FURNITURE BY OWNER	JC	JANITOR'S CLOSET	P.L.	PROPERTY LINE	S.N.C.	SANITARY NAPKIN CABINET	VTR	VENT THROUGH ROOF
C.M.U.	CONCRETE MASONRY UNIT	F.D.	FLOOR DRAIN	JT	JOINT	P.M.	PLASTIC MAT	S.N.D.	SANITARY NAPKIN DISPENSER	VWC	VINYL WALL COVERING
C.O.	CLEAN OUT	F.E.	FIRE EXTINGUISHER	K		P.R.	PROPOSAL REQUEST	S.N.R.	SANITARY NAPKIN RECEPTACLE	W	
C.R.	COLD ROLLED	F.E.C.	FIRE EXTINGUISHER CABINET	K.D.	KNOCK DOWN FRAME	P.S.F.	POUNDS PER SQUARE FOOT	S.R.	SINK RECEPTACLE	W	WEST
C.T.	CERAMIC TILE	F.E.P.	FINISHED END PANEL	K.O.	KNOCKOUT	P.S.I.	POUNDS PER SQUARE INCH	S.S.	STAINLESS STEEL	W/	WITH
C.W.	COLD WATER	F.L.	FLOW LINE	KITCH.	KITCHEN	P.T.D.	PAPER TOWEL DISPENSER	S.V.	SHEET VINYL	W/O	WITHOUT
C.Y.	CUBIC YARD	F.O.	FINISHED OPENING	KPL.	KICK PLATE	P.T.D.R.	PAPER TOWEL DISPENSER / RECEPTACLE	S.W.	SLAT WALL	WB	WASTE BASKET
CAB.	CABINET	F.P.	FIREPROOFING	L		P.T.R.	PAPER TOWEL RECEPTACLE	SA.	SOLID SURFACE ACRYLIC	WC	WATER CLOSET
CEM.	CEMENT	F.R.	FIRE RESISTIVE	L.	LONG	PART BD.	PARTICLE BOARD	SCHED.	SCHEDULE	WCV	WALL COVERING
CER.	CERAMIC	F.R.P.	FIBERGLASS REINFORCED PANEL	L.F.	LINEAL FEET	PART'N.	PARTITION	SCT	SEALED CONCRETE	WD	WOOD
CL	CENTER LINE	F.V.C.	FIRE VALVE CABINET	L.H.	LEFT HAND	PFB.	PREFABRICATED	SECT.	SECTION	WDP	WOOD PANELING
CLG.	CEILING	F.W.C.	FIRE WALL COVERING	L.H.R.	LEFT HAND REVERSE	PL	PLATE	SH.	SHELF	WDW	WINDOW
CLO.	CLOSET	FACP	FIRE ALARM CONTROL PANEL	L.L.	LIVE LOAD	PL.	PLATE	SHT'G.	SHEATHING	WF	WIDE FLANGE
CLR.	CLEAR	FDN.	FOUNDATION	L.W.C.	LIGHT WEIGHT CONCRETE	PLAS.	PLASTER	SHT.	SHEET	WGL	WIRED GLASS
CNTR	COUNTER	FIN.	FINISH	LAB.	LABORATORY	PLYWD.	PLYWOOD	SHWR.	SHOWER	WH	WALL HUNG
COL.	COLUMN	FIXT.	FIXTURE	LAM.	LAMINATE	PNL.	PANEL	SIM.	SIMILAR	WH.	WIDTH
CONC.	CONCRETE	FLOUR.	FLUORESCENT	LAV.	LAVATORY	PR.	PAIR	SP.	SPECIFICATIONS	WP	WATERPROOF(ING)
CONN.	CONNECTION	FLR.	FLOOR	LB. #	POUND	PREFAB.	PREFABRICATED			WR	WATER RESISTANT
CONST.	CONSTRUCTION	FRM.	FRAME	LBL.	LABEL	PROJ.	PROJECT			WSCT	WAINSCOT
CONT.	CONTINUOUS	FT.	FOOT / FEET	LC.	LAY-IN GRID CEILING	PROP.	PROPERTY			WT	WEIGHT
CORR.	CORRIDOR	FTG.	FOOTING							WWF	WELDED WIRE FABRIC
CP.	CARPET										

SITE LOCATION MAP

PROJECT TEAM

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Mountain Recreation Eagle Pool
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NO.	DATE:	TITLE/PURPOSE:
1	3/22/2024	SITE PLAN 02

SCALE: 1 1/2" = 1'-0"
ISSUE DATE: 03/22/2024
PROJECT #: 23079
TITLE: COVER SHEET

SHEET #:
A-001

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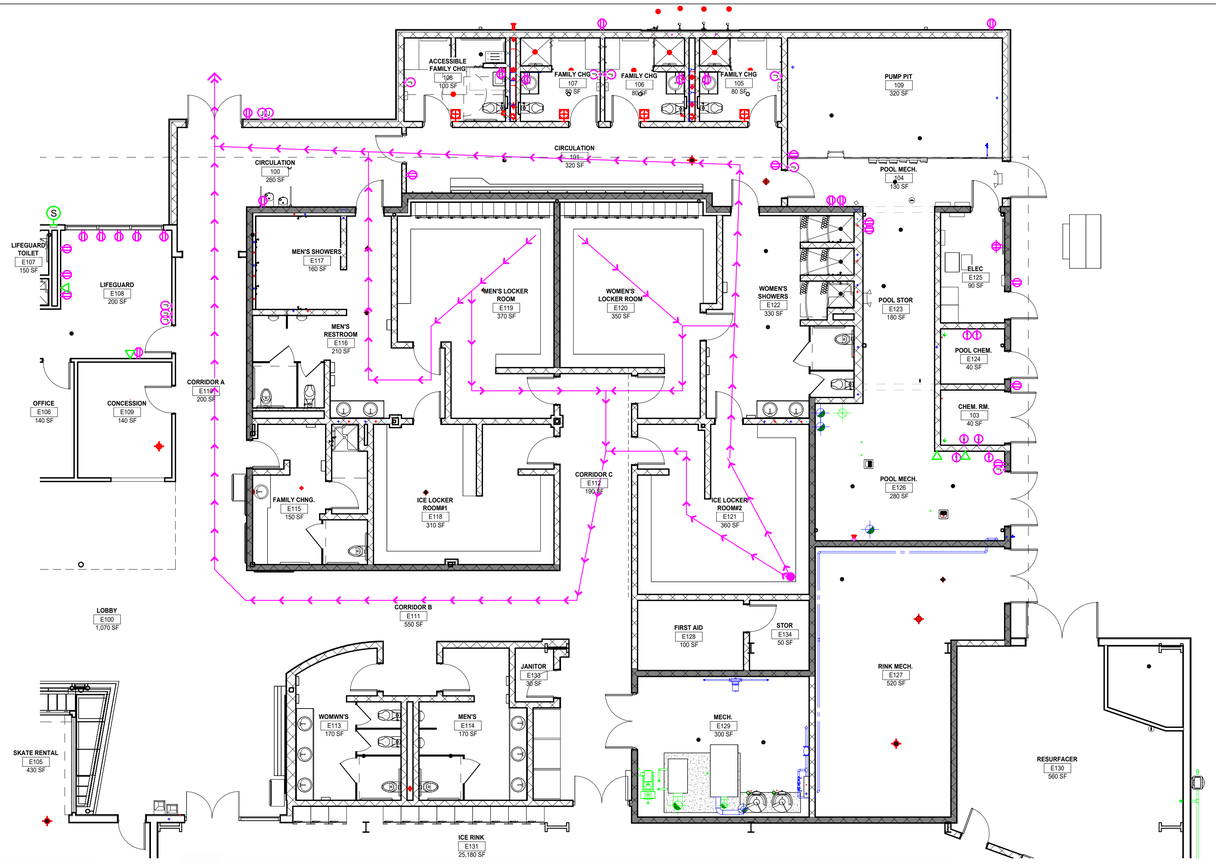

1 CODE STUDY FIRST FLOOR PLAN
1/8" = 1'-0"

Graphic Scale: 1 inch = 4 feet
0 4' 8'

S.F. BREAKDOWN
EAGLE POOL REPLACEMENT

	Qty.	Size	Subtotal	Subtotal	Total	Comments
I. PUBLIC AMENITIES					-	
A. Admin. / Management Staff					-	
1 New Staff Area	1	-	-			
II. LOCKER FACILITIES					660	
a. Family / Universal Changing					660	
1 Changing Area	1	660	660			
III. AQUATIC FACILITIES					13,602	
A. Lap / Competition Pool					3,425	
1 (6) x 7' Lanes x 25 yds.	1	3,425	3,425			
B. Leisure Pool					4,177	
1 Zero-depth entry + current channel	1	4,177	4,177			
C. Waterslides					-	
1 20' H. Waterslide Platform + 2 flumes	0	1,247	-			
D. Pool Deck					6,000	
1 Pool Deck	1	6,000	6,000			
V. SUPPORT FACILITIES					910	
A. Pool Support					910	
1 Lifeguards / First-Aid	0	230	-			
2 Multi-Purpose / Party Room	0	300	-			
2 Concessions	0	200	-			
3 Pump Pit	1	320	320			
4 Pool Mechanical Room	1	130	130			
5 Pool Mechanical Room	1	460	460			
NET S.F.-OF FLOOR AREA					15,172	
GROSS S.F. FACTOR	190%				28,828	
GROSS SITE / FLOOR AREA					44,000	

Plumbing Fixture Calculation:

Use: Assembly, pools for outdoor activites

	W/C's or Urinals		Lav's		DF's
	M	F	M	F	
Total Occupant Load:	75	40	200	150	1000
M & F Occ's: 572	4	8	3	4	
Total Fixtures Required:		12		7	2
Total Fixtures Provided	11	11	14	14	4

2021 ICC Codes

Occupancy Type	SF/Occ	Occ Load
Business	150	-
Locker rooms	50	14
Swimming Pools	50	69
Swimming Pools	50	84
Pool Deck	15	400
Business Areas	150	-
Business Areas	150	-
Business Areas	150	-
Accessory storage, mech, etc	300	2
Accessory storage, mech, etc	300	1
Accessory storage, mech, etc	300	2
Total Occupant Load		572

BUILDING CODE SUMMARY

PROJECT INFORMATION

PROJECT NAME: EAGLE POOL REPLACEMENT

PROJECT TYPE:: RENOVATION
BUILDING ADDRESS : TOWN OF EAGLE, COLORADO

APPLICABLE MUNICIPAL...

2021 INTERNATIONAL BUILDING CODE/EXISTING BUILDING CODE
2021 INTERNATIONAL ENERGY CONSERVATION CODE
2020 NATIONAL ELECTRICAL CODE
2021 INTERNATIONAL MECHANICAL CODE
2021 INTERNATIONAL PLUMBING CODE
2021 INTERNATIONAL FIRE CODE
2021 INTERNATIONAL SWIMMING POOL AND SPA CODE
2017 ANSI 117.1 ACCESSIBILITY CODE

2021 IEBC COMPLIANCE PATHWAY:

301.3.1 ALTERATIONS AND ADDITIONS COMPLY WITH THE APPLICABLE REQUIREMENTS OF CHAPTERS 5 OF THIS CODE

501.2 A FIRE SPRINKLER SYSTEM IN COMPLIANCE WITH 903.3.1.1 IS EXISTING AND SHALL BE EXTENDED INT...

502.1 ADDITIONS SHALL COMPLY WITH THE INTERNATIONAL BUILDING CODE

503.1 ALTERATIONS SHALL COMPLY WITH THE INTERNATIONAL BUILDING CODE. ALTERATIONS SHALL BE SUCH THAT THE EXISTING BUILDING OR STRUCTURE IS NOT LESS COMPLYING WITH THE PROVIDIONS OF THE INTERNATIONAL BUIDLING CODE THAN THE EXISTING BUILDING OR STRUCTUR...

CH	IBC CHAPTER AND SECTION	F	SUB-TITLE	CURRENT DESIGN
1	**SCOPE & ADMINISTRATION**			
	DEFERRED SUBMITTALS 107.3.4.1			FIRE SPRINKLER SYSTEMS
3	**USE & OCCUPANCY:**			
	OCCUPANCY DESIGNATION & 302 USE GROUP		GROUP A-4, INDOOR SKATING RINKS	GROUP A-4 ASSEMBLY (303.5 INDOOR SKATING RINKS)
4	**SPECIAL USE & OCCUPANCY:**		CHAPTER NOT APPLICABLE	
5	**GENERAL BUILDING HEIGHTS & AREAS:**			
	ALLOWABLE HEIGHT 504.3, TABLE		ALLOWED (SPRINKLERED): 55'	ACTUAL: 24'-6"
	ALLOWABLE STORIES 504.4, TABLE		ALLOWED (SPRINKLERED): 2	ACTUAL: 1
	ALLOWABLE AREA 506.2, DETERMINATION SINGLE OCCUPANCY / 1-STORY 506.2.1		ALLOWABLE AREA	At = 38,000 SF
	UNLIMITED AREA BUILDINGS 507		THE AREA OF THIS BUILDING SHALL NOT BE LIMITED BASED ON COMPLIANCE WITH THIS SECTION	
	507.4		THE AREA OF A GROUP A-4 BUILDING NOT MORE THAN ONE STORY ABOVE THE GRADE APLANE OF TYPE II-B CONSTRUCTION SHALL NOT BE LIMITED	AUTOMATIC FIRE SPRINKLER SYSTEM THROUGHOUT IN ACCORDANCE WITH SECTION 903.3.1.1 AND IS SURROUNDED BY ADJOINING PUBLIC WAYS OR YARDS NOT LESS THAN 60 FT.
	MIXED-USE OCCUPANCY 507.4.1 & 508		THIS IS A SINGLE OCCUPANCY FACILITY	NOT APPLICABLE
	INCIDENTAL USE 509.1, 509.2		INCIDENTAL USES SHALL NOT BE INDIVIDUALLY CLASSIFIED, AND SHALL BE INCLUDED IN THE...	SPRINKLERS PROVIDED
6	**TYPES OF CONSTRUCTION:**			
	FIRE RESISTANCE RATING 601, TABLE		CONSTRUCTION TYPE	II-B
			STRUCTURAL FRAME	0 HOUR
			BEARING WALLS---EXTERIOR	0 HOUR
			BEARING WALLS---INTERIOR	0 HOUR
			NON-BEARING WALLS---EXTERIOR	SEE TABLE 602
			NON-BEARING WALLS---INTERIOR	0 HOUR
			FLOOR CONSTRUCTION	0 HOUR
			ROOF CONSTRUCTION	0 HOUR
	FIRE SEPARATION DISTANCE 602. TABLE		X	5'<X<30'
			BASED ON § 601 AND § 302	2 HOUR, 8" CMU PROVIDED W/ PROTECTED OPENINGS
7	**FIRE PROTECTION**			
	MINIMUM DISTANCE OF 705.2 PROJECTION 705.8 MAXIMUM AREA OF EXTERIO...		5 OR GREATER:	40"
			705.8.1, EX. 1.1:	NO LIMIT FACING THE STREET
8	**INTERIOR FINISHES**			
	INTERIOR WALL AND FINISH 803.13 FIRE-RATING		BASED ON § 601 AND § 302 AND	FULLY-SPRINKLERED
			EXIT STAIRS/RAMPS/PASSAGEWAYS:	B
			CORRIDORS AND ENCLOSURES:	B
			ROOMS AND ENCLOSED SPACES:	C
9	**FIRE PROTECTION SYSTEM:**			
	AUTOMATIC SPRINKLER 903.2.1.3 SYSTEMS 906.3(1) PORTABLE FIRE EXTINGUISHERS (FE) FOR CLASS A FIRE HAZARDS		GROUP A-4	FULLY-SPRINKLERED
			HAZARD OCCUPANCY:	LIGHT (LOW)
			MINIMUM RATED FE:	2-A
			MAXIMUM AREA:	3,000 SF
			MAXIMUM FLOOR AREA / FE:	11,250 SF
			MAXIMUM DISTANCE OF TRAVEL TO EXTINGUISHER:	75'
10	**MEANS OF EGRESS:**			
	MEANS OF EGRESS WIDTH 1005.1		STAIRS:	0.20" (BUT 34" MIN)
			OTHER:	0.15" (BUT 44" MIN, 36" MIN IF <50 OCC)
	SPACES WITH ONE EXIT 1006.2.1		TOTAL OCCUPANCY:	411
	MINIMUM NUMBER OF EXITS 1006.3.2 PER STORY		EXITS REQUIRED:	2
			EXITS PROVIDED:	2
	HARDWARE 1008.1.9.3		PANIC HARDWARE IN PATH OF EGRESS:	PROVIDED @ EXITS
	ACCESSIBLE MEANS OF 1009 EGRESS		ONE ACCESSIBLE MEANS OF EGRESS REQUIRED MAXIMUM:	ONE PROVIDED
			FOR A-3 OCC, MAX DIST:	75'
	COMMON TRAVEL 1017.2		FOR A-3 OCC, OVER 30 OCC LOAD:	250'
	EXIT ACCESS TRAVEL 1020.1 DISTANCE		NOT APPLICABLE	NO CORRIDORS
	CORRIDOR FIRE-RESISTANC... 1020.4			20'
11	**ACCESSIBILITY**			
	ACCESSIBILE ROUTE 1104		AT LEAST ONE ACCESSIBLE ROUTE:	SINGLE STORY, ONE ROUTE PROVIDED FROM ACCESSIBLE PARKING & LOADING SPACES

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NO.	DATE:	TITLE/PURPOSE:
1	3/22/2024	SITE PLAN 02

SCALE: 1/8" = 1'-0"
ISSUE DATE: 03/22/2024
PROJECT #: 23079
TITLE: CODE STUDY

SHEET #:
A-002

Autodesk Docs://23079_Eagle Pool_R24/23079_Mountain Recreation Eagle Pool_R24.rvt
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LEGEND

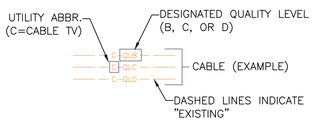
LINETYPES

EXISTING	PROPOSED	DESCRIPTION
T OH	T OH	OVERHEAD TELEPHONE LINE
T T	T	UNDERGROUND TELEPHONE LINE
G G	G	LOW PRESSURE GAS LINE
HPG	G HP	HIGH PRESSURE GAS LINE
C C	C	UNDERGROUND CABLE TELEVISION LINE
C OH	C OH	OVERHEAD CABLE TELEVISION LINE
E E	E	UNDERGROUND ELECTRICAL LINE
E OH	E OH	OVERHEAD ELECTRICAL LINE
		STORM DRAIN LINE
W W	W	WATER LINE
WS WS	WS WS	WATER SERVICE LINE
S S	S	SANITARY SEWER LINE
SS SS	SS SS	SANITARY SEWER SERVICE LINE
FO FO	FO	FIBER OPTIC LINE
IRR IRR	IRR	IRRIGATION LINE
		DRAINAGE SWALE FLOWLINE
X X X X X	X X X X X	BARBED-WIRE FENCE LINE
O O O O O	O O O O O	CHAIN LINK FENCE
SF SF SF	SF SF SF	SILT FENCE
		CULVERT & FES
		EDGE OF ASPHALT
		EDGE OF CONCRETE
		EDGE OF WATER
		CENTERLINE
		ROCK WALL
		CONTOURS
		RIGHT-OF-WAY
		VEGETATION
LDA LDA	LDA LDA	LIMITS OF DISTURBED AREA
		RAILROAD TRACKS
		TOP OF CUT
		TOP OF FILL
		EASEMENT
AE	AE	ACTIVITY ENVELOPE

SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		DECIDUOUS TREE
		CONIFEROUS TREE
		MONUMENT MARKER
		CONTROL POINT
C E FO G S T U W		MARKERS (CATV, ELEC, FIBER) (TELE, TRAFFIC, UNKNOWN)
C E FO T TR U	C E FO T TR U	PEDESTALS (CATV, ELEC, FIBER) (TELE, TRAFFIC, UNKNOWN)
D E FO IR S T U W		MANHOLES (DRAINAGE, ELEC, FIBER, IRRIGATION, SANITARY, TELEPHONE, UNKNOWN, WATER)
C E FO T TR U	C E FO T TR U	VAULTS/HANDHOLES (CATV, ELEC, FIBER, TELE, TRAFFIC, UNKNOWN)
ET	ET	ELECTRIC TRANSFORMER
GV	GV	GAS VALVE
SV	SV	SANITARY VALVE
ICV	ICV	IRRIGATION CONTROL VALVE
		WATER VALVE
		WATER SHUTOFF VALVE
		FIRE HYDRANT
G W S FO	FO	VENTS(GAS,WATER,SEWER,MISC.)
GM EM WM	GM EM WM	METERS (GAS, ELECTRIC, WATER)
G	G	GAS WELL
M	M	MONITORING WELL
W	W	WATER WELL
CO	CO	CLEAN-OUT
P	P	PROPANE TANK (ABOVE GROUND)
P	P	PROPANE TANK (UNDERGROUND)
HVAC	HVAC	HEATING/AIR CONDITIONING UNIT
		WATER SPIGOT
ICB	ICB	IRRIGATION CONTROL BOX
		IRRIGATION HEADGATE
SPR	SPR	IRRIGATION SPRINKLER HEAD
		PVC PIPE
		FLAG POLE
		UTILITY POLE
		GUY WIRE
		STREET LIGHT POLE
		TRAFFIC LIGHT POLE
		FLOOD LIGHT
		SIGN
MB	MB	MAILBOX
		BOLLARD
		SOIL BORING LOCATION
		TEST PIT LOCATION
		LARGE ROCK/BOULDER
		"T" POST
		SATELLITE DISH
		TRANSITION FROM SPILL TO CATCH GUTTER
		MINIMUM 4" TOP SOIL OR SPECIFIED ALTERNATIVE
		CHANGE IN SUE LEVEL
		UTILITY POTHOLE LOCATION

SUE UTILITY LINE TYPES WITH "QUALITY LEVELS"



C-QLB	CABLE COMMUNICATION
T-QLB	TELEPHONE
F-QLB	FIBER OPTIC
TR-QLB	TRAFFIC COMMUNCATION
E-QLB	ELECTRIC
ET-QLB	ELECTRIC TRANSMISSION
G-QLB	GAS
HPG-QLB	HIGH PRESSURE GAS
CA-QLB	COMPRESSED AIR
S-QLB	SANITARY SEWER
DR-QLB	DRAIN LINE (STORM SEWER)
W-QLB	WATER
IRR-QLB	IRRIGATION
NP-QLB	NON-POTABLE WATER
UNK	UNKNOWN UTILITY

ABBREVIATIONS

@	AT
°	DEGREE
ø	DIAMETER
#	NUMBER
AAC	ALUMINUM ARCH CULVERT
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
ABC	AGGREGATE BASE COURSE
ABUT	ABUTMENT
ACM	ASBESTOS CONTAINING MATERIAL
ACP	ASBESTOS CEMENT PIPE
ADA	AMERICANS W/ DISABILITIES ACT
ADT	AVERAGE DAILY TRIPS
ALT	ALTERNATE
AP	ANGLE POINT
APWA	AMERICAN PUBLIC WORKS ASSOCIATION
AS	ASPHALT
ASD	ALLOWABLE STRESS DESIGN
ASPH	ASPHALT
ATB	ASPHALT TREATED BASE
BBL	BARRELS
BCKF	BACK FACING
BLKF	BLOCK FACING
BLM	BUREAU OF LAND MANAGEMENT
BM	BENCHMARK
BMP	BEST MANAGEMENT PRACTICES
BOW	BACK OF SIDEWALK
BP	BEGIN PROJECT, BEGINNING POINT
BT	BEGIN TRANSITION
BVCE	BEGINNING VERTICAL CURVE ELEVATION
BVCS	BEGINNING VERTICAL CURVE STATION
BW	BOTTOM OF WALL
C	CURB
CBC	CONCRETE BOX CULVERT
CC	CURB CUT
CDOT	COLORADO DEPARTMENT OF TRANSPORTATION
CDPHE	COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT
CF	CUBIC FEET
CFS	CUBIC FEET PER SECOND
CG	CURB AND GUTTER
CIP	CAST IN PLACE
CL	CENTERLINE
CLOMR	CONDITIONAL LETTER OF MAP REVISION
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CO	CONCRETE
COM	COMMUNICATIONS
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
COR	CORNER
CPE	CORRUGATED POLYETHYLENE PIPE
CSP	CORRUGATED STEEL PIPE
CTB	CEMENT TREATED BASE
CU	CUBIC
CY	CUBIC YARD
D	DEEP
DB	DECIBELS
DEG	DEGREES
DHV	DESIGN HOUR VOLUME
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DOW	DIVISION OF WILDLIFE
DR	DRAIN
DTM	DIGITAL TERRAIN MODEL
DW	DRIVEWAY
DWG	DRAWING
E	EASTING
EA	EACH
EB	EAST BOUND
EG	EXISTING GRADE
EL	ELEVATION
ELEV	ELEVATION
EOA	EDGE OF ASPHALT
EOD	EDGE OF DRIVEWAY
EOC	EDGE OF CONCRETE
EOG	EDGE OF GRAVEL
EOM	EDGE OF MILLINGS
EOP	EDGE OF PAVEMENT
EP	END PROJECT, END POINT
EPA	ENVIRONMENTAL PROTECTION AGENCY
ES	ELECTRIC SERVICE
ESMT	EASEMENT
EST	ESTIMATE
EVCE	END VERTICAL CURVE ELEVATION
EVCS	END VERTICAL CURVE STATION
EX	EXISTING
EXIST	EXISTING
EXT	EXTERIOR
FAA	FEDERAL AVIATION ADMINISTRATION
FEMA	FEDERAL EMERGENCY MANAGEMENT AGENCY
FES	FLARED END SECTION
FF	FINISHED FLOOR
FG	FINISHED GRADE
FH	FIRE HYDRANT
FHWA	FEDERAL HIGHWAY ADMINISTRATION
FL	FLOWLINE
FOW	FACE OF WALL
FPS	FEET PER SECOND
FRTF	FRONT FACE
FT	FEET
G	GAS
GAL	GALLONS
GALV	GALVANIZED
GB	GRADE BREAK
GIS	GEOGRAPHICAL INFORMATION SYSTEM
GPM	GALLONS PER MINUTE
GPS	GLOBAL POSITIONING SYSTEM
GR	GRAVEL
GRAV	GRAVEL
GS	GAS SERVICE
GSP	GALVANIZED STEEL PIPE
GV	GATE VALVE
HAZMAT	HAZARDOUS MATERIALS
HC	HANDICAP RAMP
HCL	HORIZONTAL CONTROL LINE
HDPE	HIGH DENSITY POLYETHYLENE
HMA	HOT MIXED ASPHALT
HORIZ	HORIZONTAL
HOV	HIGH OCCUPANCY VEHICLE
HP	HIGH POINT
HPG	HIGH PRESSURE GAS
HWY	HIGHWAY
HYD	HYDRANT
ID	INSIDE DIAMETER
INT	INTERSECTION
INV	INVERT
IP	INLET PROTECTION
JB	JUNCTION BOX
KIP	THOUSAND POUNDS
KW	KILOWATT
L	LEFT
LGTH	LENGTH
LB	POUNDS
LB/FT	POUNDS PER FOOT
LEED	LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN
LF	LINEAR FOOT
LOMR	LETTER OF MAP REVISION
LPFM	LOW PRESSURE FORCE MAIN
LP	LOW POINT
LS	LUMP SUM
LSA	LANDSCAPED AREA
LT	LIGHT POLE
LTB	LIME TREATED BASE
LUM	LUMINARY
M	METERS
MAT'L	MATERIAL
MAX	MAXIMUM
MH	MANHOLE
MHT	METHOD OF HANDLING TRAFFIC
MIN	MINIMUM
MISC	MISCELLANEOUS
ML	MEGALUG
MLW	MASONRY LANDSCAPE WALL
MP	MILE POST
MPH	MILES PER HOUR
MSE	MECHANICALLY STABILIZE EARTH
MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
MW	MONITORING WELL
N	NORTHING
N/A	NOT APPLICABLE
NAT	NATIVE GRASS AREA
NAVD	NORTH AMERICAN VERTICAL DATUM
NB	NORTH BOUND
NE	NORTHEAST
NEPA	NATIONAL ENVIRONMENTAL POLICY ACT
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NGVD	NATIONAL GEODETIC VERTICAL DATUM 1929
NHS	NATIONAL HIGHWAY SYSTEM
NIP	NAIL IN PLACE
NO	NUMBER
NPDES	NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
NTP	NOTICE TO PROCEED
NTS	NOT TO SCALE
NW	NORTHWEST
O/S	OFFSET
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OP	OUTLET PROTECTION
OT	OVERHEAD TELEPHONE
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PED	PEDESTRIAN
PERM	PERMANENT
PG	PAGE
PGL	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
PL	PROPERTY LINE
PM	PROJECT MANAGER
PNT	POINT
POC	POINT ON CURVE
POT	POINT ON TANGENT
PRC	POINT OF REVERSE CURVE
PROP	PROPOSED
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FEET
PSI	POUNDS PER SQUARE INCH
PT	POINT OF TANGENCY
PUD	PLANNED UNIT DEVELOPMENT
PVC	POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
PVT	POINT OF VERTICAL TANGENCY
Q	PEAK DISCHARGE
QA/QC	QUALITY ASSURANCE/QUALITY CONTROL
QTY	QUANTITY
R	RIGHT
R-R	REMOVE AND REPLACE
RAD	RADIUS
RCP	REINFORCED CONCRETE PIPE
REF	REFERENCE
REQ	REQUIRED
REVEG	REVEGETATE
RFTA	ROARING FORK TRANSIT AUTHORITY
ROW	RIGHT OF WAY
RP	RADIUS POINT
RSS	REINFORCED SOIL SLOPE
RW	RETAINING WALL
SAC	STEEL ARCH CULVERT
SAN	SANITARY
SB	SOUTH BOUND
SCF	SEDIMENT CONTROL FENCE
SD	STORM DRAIN
SDR	STANDARD DIMENSION RATIO
SE	SOUTHEAST
SECT	SECTION
SF	SQUARE FEET
SHLDR	SHOULDER
SL	SANITARY SEWER LINE
SMH	SANITARY SEWER MANHOLE
SOD	GRASS AREA
SS	SANITARY SEWER SERVICE
SSD	STOPPING SIGHT DISTANCE
STA	STATION
STBK	SETBACK
SW	SIDEWALK
SY	SQUARE YARDS
SYM	SYMMETRICAL
T	TREAD STAIRS
TAN	TANGENT
TBC	TOP BACK OF CURB
TBLK	THRUST BLOCK
TC	TOP OF CURB
TCE	TEMPORARY CONSTRUCTION EASEMENT
TCP	TRAFFIC CONTROL PLAN
TELE	TELEPHONE
TEMP	TEMPORARY
TP	TOP OF PIPE
TRANS	TRANSITION
TRFLG	TRAFFIC FLANGE OF FIRE HYDRANT
TW	TOP OF WALL
TYP	TYPICAL
UCTV	UNDERGROUND CABLE TELEVISION LINE
UE	UNDERGROUND ELECTRIC LINE
UG	UNDERGROUND GAS LINE
USACE	US ARMY CORPS OF ENGINEERS
USGS	US GEOLOGICAL SURVEY
UT	UNDERGROUND TELEPHONE LINE
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VP	VALLEY PAN
VTC	VEHICLE TRACKING CONTROL
W	WIDE
W/	WITH
WB	WEST BOUND
WL	WATER LINE
WS	WATER SERVICE
WQCD	WATER QUALITY CONTROL DIVISION
WS	WATER SERVICE
WWM	WELDED WIRE MESH
X-S	CROSS SLOPE
YD	YARD

HATCHING

EXISTING	PROPOSED	DESCRIPTION
		ASPHALT MILLING
		ASPHALT
		CONCRETE SURFACING (PLAN VIEW)
		GRAVEL SURFACING
		RIPRAP/RIVER ROCK
		RE-ESTABLISH NATIVE VEGETATION
		WOOD DECK
		FLAGSTONE
		UNDISTURBED SOIL
		RECOMPACTED SOIL

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

NO.	DATE:	TITLE/PURPOSE:
	3/22/2024	Site Plan Application 02

SCALE: **AS SHOWN**
ISSUE DATE: **03/22/2024**
PROJECT #: **2023-493.001**
TITLE: **LEGEND & ABBREVIATIONS**

SHEET #:
C-001

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NO.	DATE:	TITLE/PURPOSE:
	3/22/2024	Site Plan Application 02

SCALE: **AS SHOWN**
ISSUE DATE: **3/11/2024**
PROJECT #: **2023-493.001**
TITLE: **EXISTING CONDITIONS & DEMO-REMOVALS PLAN**
SHEET #:

C-100

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NO.	DATE:	TITLE/PURPOSE:
	3/22/2024	Site Plan Application 02

SCALE: **AS SHOWN**
ISSUE DATE: **3/21/2024**
PROJECT #: **2023-493.001**
TITLE: **SITE PLAN**

SHEET #:
C-200

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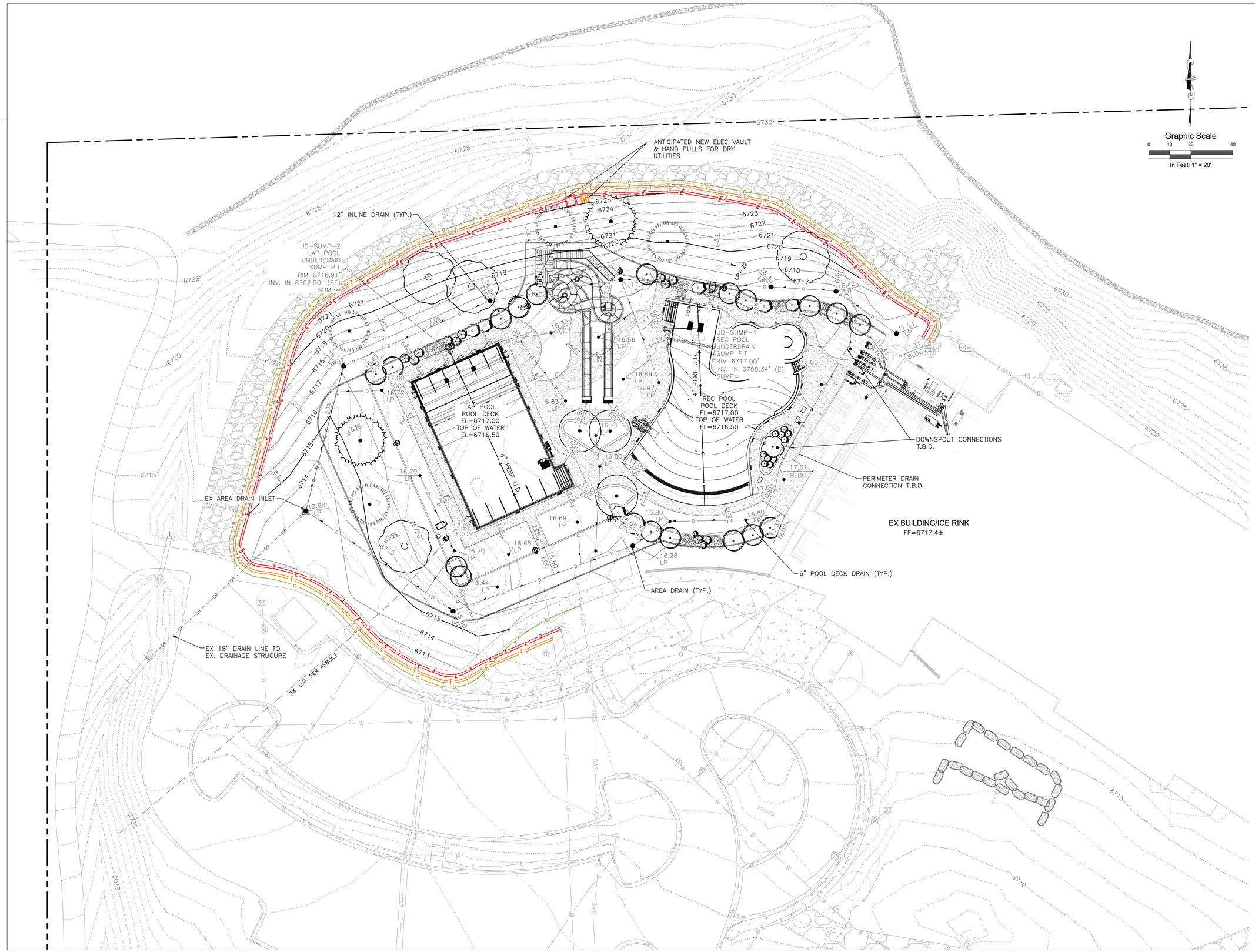

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NO.	DATE:	TITLE/PURPOSE:
	3/22/2024	Site Plan Application 02

SCALE: **AS SHOWN**
ISSUE DATE: **3/21/2024**
PROJECT #: **2023-493.001**
TITLE: **GRADING & DRAINAGE PLAN**

SHEET #:
C-201

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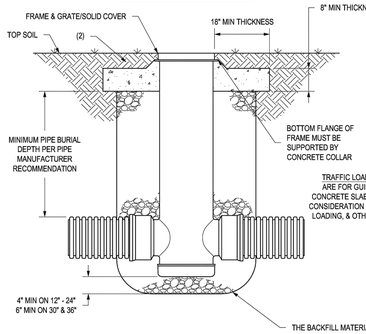
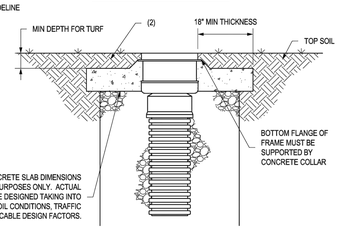
NYLOPLAST TURF TRAFFIC INSTALLATION

12" - 36" DRAIN BASIN



12" - 30" INLINE DRAIN



TRAFFIC LOADS: CONCRETE SLAB DIMENSIONS ARE FOR GUIDELINE PURPOSES ONLY. ACTUAL CONCRETE SLAB MUST BE DESIGNED TAKING INTO CONSIDERATION LOCAL SOIL CONDITIONS, TRAFFIC LOADING, & OTHER APPLICABLE DESIGN FACTORS.

THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS I, CLASS II, OR CLASS III MATERIAL AS DEFINED IN ASTM D2321. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.

1. GRATES/SOLID COVERS SHALL MEET H-20 LOAD RATING FOR 30" PEDESTRIAN & 12" - 30" STANDARD & SOLID
2. DESIGN SHOULD ACCOUNT FOR ROOT DEPTH TO ALLOW TURF TO GROW AND PREVENT EROSION AROUND GRATE SO THAT HAZARDS DO NOT FORM.
3. 36" DRAIN BASIN REQUIRES 36"X30" REDUCING CONE. REDUCING CONE REQUIRES 2.25FT MINIMUM FROM GRADE TO TOP OF PIPE.

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DRAWN BY	EBC	MATERIAL	
DATE	01-05-09		
REVISED BY	NMH	PROJECT NO./NAME	
DATE	06-12-18		
DWG SIZE	A	SCALE 1:25	SHEET 1 OF 1

ADS Nyloplast
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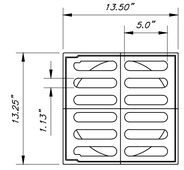
www.nyloplast-us.com

TITLE: DRAIN BASIN & INLINE DRAIN TURF TRAFFIC INSTALLATION

DWG NO. 7001-110-340 REV G

12" CAST IRON GRATE



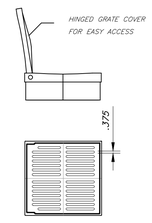
STANDARD (H-20) RATED

DRAINAREA = 62.7 SQ. INCH

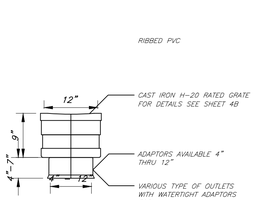
MATERIAL: CAST IRON

QUALITY: MATERIAL SHALL CONFORM TO ASTM A48 – CLASS 30B

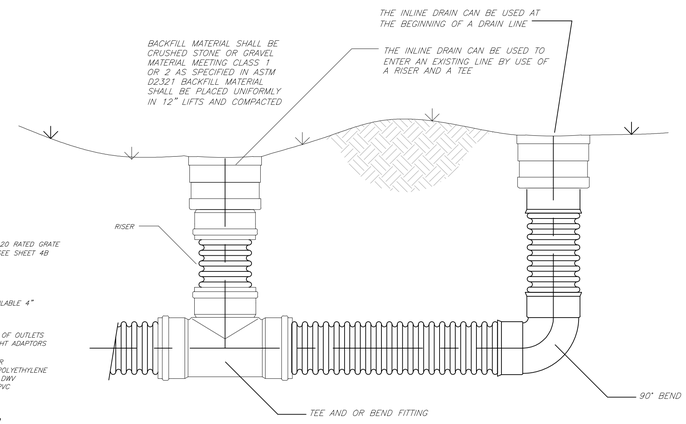
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT

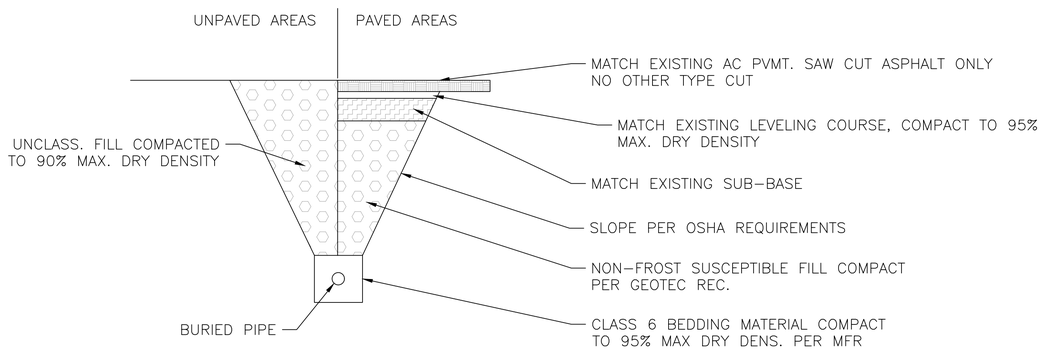


PEDESTRIAN (H-10) RATED
DRAINAREA = 51.0 SQ. INCH



12" INLINE DRAIN



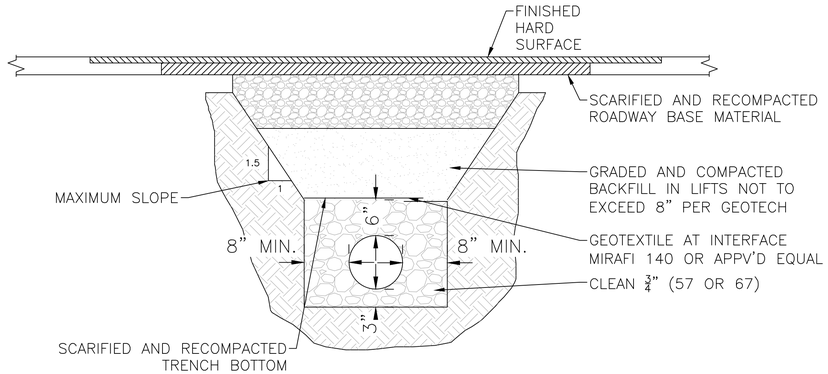


NOTES:

1. PLACE AND COMPACT BEDDING MATERIAL BEFORE INSTALLING PIPE.
2. PIPE BEDDING MUST BE IN PLACE, COMPACTED AND PIPE INSTALLED AT TIME OF CONC. INSTALLATION OBSERVATION

DRAINAGE PIPE DETAIL

N.T.S.

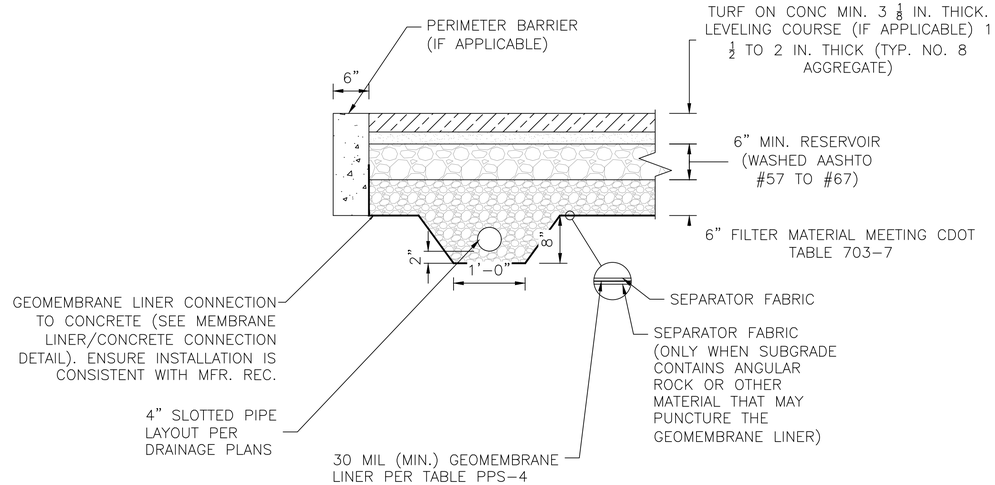


UNDERDRAIN TRENCH TYPICAL DETAIL

N.T.S.

NOTES:

1. TRENCH MUST BE SLOPED AS SHOWN OR BRACED FOR THE SAFETY OF CONSTRUCTION WORKERS. TRENCHING WILL BE SUBJECT TO MOST RECENT CONFINED SPACE AND OSHA REGULATIONS
2. PIPE SHALL BE PVC, SDR 35 OR STRONGER, PERFORATED PIPE w/ GLUED FITTINGS
3. DESIGN SLOPE OF 0.5%, MINIMUM.



TYPICAL UNDERDRAIN SECTION (ALTERNATE)

N.T.S.

Mountain Recreation Eagle Pool

1700 Bull Pasture Rd, Eagle, CO 81631

NO.	DATE:	TITLE/PURPOSE:
	3/22/2024	Site Plan Application 02

SCALE: AS SHOWN
ISSUE DATE: 03/22/2024
PROJECT #: 2023-493.001
TITLE: SITE & UTILITY DETAILS

SHEET #:
C-500

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GENERAL NOTES

1. THE CONTRACTOR AND OWNER'S REPRESENTATIVE SHALL CONTACT THE LANDSCAPE ARCHITECT FOR A PRE-CONSTRUCTION MEETING PRIOR TO START OF ANY WORK SHOWN ON THESE PLANS.
2. THESE PLANS SHALL NOT BE UTILIZED FOR CONSTRUCTION OR PERMITTING UNLESS STATED FOR SUCH USE IN THE TITLE BLOCK.
3. DRAWINGS ARE INTENDED TO BE PRINTED ON _24_ X _36_ PAPER. PRINTING THESE DRAWINGS AT A DIFFERENT SIZE WILL IMPACT THE SCALE. VERIFY THE GRAPHIC SCALE BEFORE REFERENCING ANY MEASUREMENTS ON THESE SHEETS. THE RECIPIENT OF THESE DRAWINGS SHALL BE RESPONSIBLE FOR ANY ERRORS RESULTING FROM INCORRECT PRINTING, COPYING, OR ANY OTHER CHANGES THAT ALTER THE SCALE OF THE DRAWINGS.
4. VERIFY ALL PLAN DIMENSIONS PRIOR TO START OF CONSTRUCTION. NOTIFY THE OWNER'S REPRESENTATIVE TO ADDRESS ANY QUESTIONS OR CLARIFY ANY DISCREPANCIES.
5. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS.
6. SUBMIT A CHANGE ORDER FOR APPROVAL FOR ANY CHANGES TO WORK SCOPE RESULTING FROM FIELD CONDITIONS OR DIRECTION BY OWNER'S REPRESENTATIVE WHICH REQUIRE ADDITIONAL COST TO THE OWNER PRIOR TO PERFORMANCE OF WORK.
7. THE CONTRACTOR SHALL PROVIDE A STAKED LAYOUT OF ALL SITE IMPROVEMENTS FOR INSPECTION BY THE OWNER'S REPRESENTATIVE AND MAKE MODIFICATIONS AS REQUIRED. ALL LAYOUT INFORMATION IS AVAILABLE IN DIGITAL FORMAT FOR USE BY THE CONTRACTOR.
8. IF A GEOTECHNICAL SOILS REPORT IS NOT AVAILABLE AT THE TIME OF CONSTRUCTION, NORRIS DESIGN RECOMMENDS A REPORT BE AUTHORIZED BY THE OWNER AND THAT ALL RECOMMENDATIONS OF THE REPORT ARE FOLLOWED DURING CONSTRUCTION. THE CONTRACTOR SHALL USE THESE CONTRACT DOCUMENTS AS A BASIS FOR THE BID. IF THE OWNER ELECTS TO PROVIDE A GEOTECHNICAL REPORT, THE CONTRACTOR SHALL REVIEW THE REPORT AND SUBMIT AN APPROPRIATE CHANGE ORDER TO THE OWNER'S REPRESENTATIVE IF ADDITIONAL COSTS ARE REQUESTED.
9. CONTRACTOR SHALL CONFIRM THAT SITE CONDITIONS ARE SIMILAR TO THE PLANS, WITHIN TOLERANCES STATED IN THE CONTRACT DOCUMENTS, AND SATISFACTORY TO THE CONTRACTOR PRIOR TO START OF WORK. SHOULD SITE CONDITIONS BE DIFFERENT THAN REPRESENTED ON THE PLANS OR UNSATISFACTORY TO THE CONTRACTOR, THE CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE FOR CLARIFICATION AND FURTHER DIRECTION.
10. CONTRACTOR IS RESPONSIBLE TO PAY FOR, AND OBTAIN, ANY REQUIRED APPLICATIONS, PERMITTING, LICENSES, INSPECTIONS AND METERS ASSOCIATED WITH WORK.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER RELATING TO ANY VIOLATIONS OR NON-CONFORMANCE WITH THE PLANS, SPECIFICATIONS, CONTRACT DOCUMENTS, JURISDICTIONAL CODES, AND REGULATORY AGENCIES.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL UTILITY LOCATES PRIOR TO ANY EXCAVATION. REFER TO ENGINEERING UTILITY PLANS FOR ALL PROPOSED UTILITY LOCATIONS AND DETAILS. NOTIFY OWNER'S REPRESENTATIVE IF EXISTING OR PROPOSED UTILITIES INTERFERE WITH THE ABILITY TO PERFORM WORK.
13. UNLESS IDENTIFIED ON THE PLANS FOR DEMOLITION OR REMOVAL, THE CONTRACTOR IS RESPONSIBLE FOR THE COST TO REPAIR UTILITIES, ADJACENT OR EXISTING LANDSCAPE, ADJACENT OR EXISTING PAVING, OR ANY PUBLIC AND PRIVATE PROPERTY THAT IS DAMAGED BY THE CONTRACTOR OR THEIR SUBCONTRACTOR'S OPERATIONS DURING INSTALLATION, ESTABLISHMENT OR DURING THE SPECIFIED MAINTENANCE PERIOD. ALL DAMAGES SHALL BE REPAIRED TO PRE-CONSTRUCTION CONDITIONS AS DETERMINED BY THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL BE RESPONSIBLE FOR LOGGING ANY DAMAGES PRIOR TO START OF CONSTRUCTION AND DURING THE CONTRACT PERIOD.
14. ALL WORK SHALL BE CONFINED TO THE AREA WITHIN THE CONSTRUCTION LIMITS AS SHOWN ON THE PLANS. ANY AREAS OR IMPROVEMENTS DISTURBED OUTSIDE THESE LIMITS SHALL BE RETURNED TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE. IN THE EVENT THE CONTRACTOR REQUIRES A MODIFICATION TO THE CONSTRUCTION LIMITS, WRITTEN PERMISSION MUST BE OBTAINED FROM THE OWNER'S REPRESENTATIVE PRIOR TO ANY DISTURBANCE OUTSIDE OF THE LIMITS OF WORK.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY OF THEIR TRENCHES OR EXCAVATIONS THAT SETTLE.
16. THE CONTRACTOR SHALL BE RESPONSIBLE TO PREPARE AND SUBMIT A TRAFFIC CONTROL PLAN TO THE APPROPRIATE JURISDICTIONAL AGENCIES AND THE OWNER'S REPRESENTATIVE IF THEIR WORK AND OPERATIONS AFFECT OR IMPACT THE PUBLIC RIGHTS-OF-WAY. OBTAIN APPROVAL PRIOR TO ANY WORK WHICH AFFECTS OR IMPACTS THE PUBLIC RIGHTS-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER RELATING TO THIS REQUIREMENT DURING THE CONTRACT PERIOD.
17. SIGHT TRIANGLES AND SIGHT LINES SHALL REMAIN UNOBSTRUCTED BY EQUIPMENT, CONSTRUCTION MATERIALS, PLANT MATERIAL OR ANY OTHER VISUAL OBSTACLE DURING THE CONTRACT PERIOD AND AT MATURITY OF PLANTS PER LOCAL JURISDICTIONAL REQUIREMENTS.
18. NO PLANT MATERIAL OTHER THAN GROUND COVER IS ALLOWED TO BE PLANTED ADJACENT TO FIRE HYDRANTS AS STIPULATED BY JURISDICTIONAL REQUIREMENTS.
19. COORDINATE SITE ACCESS, STAGING, STORAGE AND CLEANOUT AREAS WITH OWNER'S REPRESENTATIVE.
20. CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY SAFETY FENCING AND BARRIERS AROUND ALL IMPROVEMENTS SUCH AS WALLS, PLAY STRUCTURES, EXCAVATIONS, ETC. ASSOCIATED WITH THEIR WORK UNTIL SUCH FACILITIES ARE COMPLETELY INSTALLED PER THE PLANS, SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS.
21. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF THEIR MATERIAL STOCK PILES AND WORK FROM VANDALISM, EROSION OR UNINTENDED DISTURBANCE DURING THE CONSTRUCTION PERIOD AND UNTIL FINAL ACCEPTANCE IS ISSUED.
22. THE CONTRACTOR SHALL KNOW, UNDERSTAND AND ABIDE BY ANY STORM WATER POLLUTION PREVENTION PLAN (SWPPP) ASSOCIATED WITH THE SITE. IF A STORM WATER POLLUTION PREVENTION PLAN IS NOT PROVIDED BY THE OWNER'S REPRESENTATIVE, REQUEST A COPY BEFORE PERFORMANCE OF ANY SITE WORK.
23. MAINTAIN ANY STORM WATER MANAGEMENT FACILITIES THAT EXIST ON SITE FOR FULL FUNCTIONALITY. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ANY NEW STORM WATER MANAGEMENT FACILITIES THAT ARE IDENTIFIED IN THE SCOPE OF WORK TO FULL FUNCTIONALITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER FOR FAILURE TO MAINTAIN STORM WATER MANAGEMENT FACILITIES DURING THE CONTRACT PERIOD.
24. THE CONTRACTOR SHALL PREVENT SEDIMENT, DEBRIS AND ALL OTHER POLLUTANTS FROM EXITING THE SITE OR ENTERING THE STORM SEWER SYSTEM DURING ALL DEMOLITION OR CONSTRUCTION OPERATIONS THAT ARE PART OF THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER RELATING TO THESE REQUIREMENTS DURING THEIR CONTRACTED COURSE OF WORK.
25. THE CONTRACTOR SHALL BE RESPONSIBLE TO PREVENT ANY IMPACTS TO ADJACENT WATERWAYS, WETLANDS, OR OTHER ENVIRONMENTALLY SENSITIVE AREAS RESULTING FROM WORK DONE AS PART OF THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER RELATING TO THESE STANDARDS DURING THEIR CONTRACTED COURSE OF WORK.
26. THE CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL INSURE THAT ALL LOADS OF CONSTRUCTION MATERIAL IMPORTED TO OR EXPORTED FROM THE PROJECT SITE SHALL BE PROPERLY COVERED TO PREVENT LOSS OF MATERIAL DURING TRANSPORT. TRANSPORTATION METHODS ON PUBLIC RIGHT-OF WAYS SHALL CONFORM TO JURISDICTIONAL REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER RELATING TO THESE REQUIREMENTS.
27. THE CLEANING OF EQUIPMENT IS PROHIBITED AT THE JOB SITE UNLESS AUTHORIZED BY THE OWNER'S REPRESENTATIVE IN A DESIGNATED AREA. THE DISCHARGE OF WATER, WASTE CONCRETE, POLLUTANTS, OR OTHER MATERIALS SHALL ONLY OCCUR IN AREAS DESIGNED FOR SUCH USE AND APPROVED BY THE OWNER'S REPRESENTATIVE.
28. THE CLEANING OF CONCRETE EQUIPMENT IS PROHIBITED AT THE JOB SITE EXCEPT IN DESIGNATED CONCRETE WASHOUT AREAS. THE DISCHARGE OF WATER CONTAINING WASTE CONCRETE IN THE STORM SEWER IS PROHIBITED.
29. THE USE OF REBAR, STEEL STAKES, OR STEEL FENCE POSTS TO STAKE DOWN STRAW OR HAY BALES OR TO SUPPORT SILT FENCING USED AS AN EROSION CONTROL MEASURE IS PROHIBITED.
30. OPEN SPACE SWALES: IF SWALES ARE EXISTING ON SITE AND ARE NOT INTENDED TO BE MODIFIED AS PART OF THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN THE CONVEYANCE OF WATER WITHIN THE SWALES DURING THE CONTRACT PERIOD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DIVERSION OR PUMPING OF WATER IF REQUIRED TO COMPLETE WORK. ANY SWALES DISTURBED BY THE CONTRACTOR SHALL BE REPAIRED/RESTORED TO THEIR ORIGINAL CONDITION. IF THE SWALE NEEDS TO BE DISTURBED OR MODIFIED FOR ANY REASON, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO DISTURBANCE.
31. DETENTION AND WATER QUALITY PONDS: IF DETENTION PONDS AND WATER QUALITY PONDS ARE EXISTING ON SITE AND ARE NOT INTENDED TO BE MODIFIED AS PART OF THE PLANS, THE CONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE PONDS, DRAINAGE STRUCTURES AND SPILLWAYS DURING CONSTRUCTION. ALL PONDS, DRAINAGE STRUCTURES AND SPILLWAYS SHALL BE MAINTAINED IN OPERABLE CONDITIONS AT ALL TIMES. ANY POND OR SPILLWAY AREAS DISTURBED BY THE CONTRACTOR SHALL BE REPAIRED/RESTORED TO THEIR ORIGINAL CONDITION. IF THE POND NEEDS TO BE DISTURBED OR MODIFIED FOR ANY REASON, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO DISTURBANCE.
32. MAINTENANCE ACCESS BENCHES: IF MAINTENANCE BENCHES OR ACCESS ROADS EXIST ON SITE AND ARE NOT INTENDED TO BE MODIFIED AS PART OF THE PLANS, THE CONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE BENCHES OR ACCESS ROADS DURING CONSTRUCTION. ANY BENCHES OR ACCESS ROADS DISTURBED BY THE CONTRACTOR SHALL BE REPAIRED/RESTORED TO THEIR ORIGINAL CONDITION. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING BENCHES AND ACCESS ROADS DURING THE CONSTRUCTION PERIOD. IF ACCESS NEEDS TO BE BLOCKED FOR ANY REASON, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO INTERRUPTION OF ACCESS.
33. LOCAL, STATE AND FEDERAL JURISDICTIONAL REQUIREMENTS, RESTRICTIONS OR PROCEDURES SHALL SUPERSEDE THESE PLANS, NOTES AND SPECIFICATIONS WHEN MORE STRINGENT. NOTIFY THE OWNER'S REPRESENTATIVE IF CONFLICTS OCCUR.

LANDSCAPE NOTES

1. THE CONTRACTOR SHALL FOLLOW THE LANDSCAPE PLANS AND SPECIFICATIONS AS CLOSELY AS POSSIBLE. ANY SUBSTITUTION OR ALTERATION SHALL NOT BE ALLOWED WITHOUT APPROVAL OF THE OWNER'S REPRESENTATIVE. OVERALL PLANT QUANTITY AND QUALITY SHALL BE CONSISTENT WITH THE PLANS.
2. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL PLANT QUANTITIES. GRAPHIC QUANTITIES TAKE PRECEDENCE OVER WRITTEN QUANTITIES.
3. THE OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO INSPECT AND TAG ALL PLANT MATERIAL PRIOR TO SHIPPING TO THE SITE. IN ALL CASES, THE OWNER'S REPRESENTATIVE MAY REJECT PLANT MATERIAL AT THE SITE IF MATERIAL IS DAMAGED, DISEASED, OR DECLINING IN HEALTH AT THE TIME OF ONSITE INSPECTIONS OR IF THE PLANT MATERIAL DOES NOT MEET THE MINIMUM SPECIFIED STANDARD IDENTIFIED ON THE PLANS AND IN THE SPECIFICATIONS. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE FOR INSPECTION AND APPROVAL OF ALL MATERIALS AND PRODUCTS PRIOR TO INSTALLATION.
4. THE OWNER'S REPRESENTATIVE MAY ELECT TO UPSIZE PLANT MATERIAL AT THEIR DISCRETION BASED ON SELECTION, AVAILABILITY, OR TO ENHANCE SPECIFIC AREAS OF THE PROJECT. THE CONTRACTOR SHALL VERIFY PLANT MATERIAL SIZES WITH OWNER'S REPRESENTATIVE PRIOR TO PURCHASING, SHIPPING OR STOCKING OF PLANT MATERIALS. SUBMIT CHANGE ORDER REQUEST TO OWNER'S REPRESENTATIVE FOR APPROVAL IF ADDITIONAL COST IS REQUESTED BY THE CONTRACTOR PRIOR TO INSTALLATION. RE-STOCKING CHARGES WILL NOT BE APPROVED IF THE CONTRACTOR FAILS TO SUBMIT A REQUEST FOR MATERIAL CHANGES.
5. THE CONTRACTOR SHALL WARRANTY ALL CONTRACTED WORK AND MATERIALS FOR A PERIOD OF ONE YEAR AFTER SUBSTANTIAL COMPLETION HAS BEEN ISSUED BY THE OWNER'S REPRESENTATIVE FOR THE ENTIRE PROJECT UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS OR SPECIFICATIONS.
6. REFER TO IRRIGATION PLANS FOR LIMITS AND TYPES OF IRRIGATION DESIGNED FOR THE LANDSCAPE. IN NO CASE SHALL IRRIGATION BE EMITTED WITHIN THE MINIMUM DISTANCE FROM BUILDING OR WALL FOUNDATIONS AS STIPULATED IN THE GEOTECHNICAL REPORT. ALL IRRIGATION DISTRIBUTION LINES, HEADS AND EMITTERS SHALL BE KEPT OUTSIDE THE MINIMUM DISTANCE AWAY FROM ALL BUILDING AND WALL FOUNDATIONS AS STIPULATED IN THE GEOTECHNICAL REPORT.
7. LANDSCAPE MATERIAL LOCATIONS SHALL HAVE PRECEDENCE OVER IRRIGATION MAINLINE AND LATERAL LOCATIONS. COORDINATE INSTALLATION OF IRRIGATION EQUIPMENT SO THAT IT DOES NOT INTERFERE WITH THE PLANTING OF TREES OR OTHER LANDSCAPE MATERIAL.
8. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING POSITIVE DRAINAGE EXISTS IN ALL LANDSCAPE AREAS. SURFACE DRAINAGE ON LANDSCAPE AREAS SHALL NOT FLOW TOWARD STRUCTURES AND FOUNDATIONS. MAINTAIN SLOPE AWAY FROM FOUNDATIONS PER THE GEOTECHNICAL REPORT RECOMMENDATIONS. ALL LANDSCAPE AREAS BETWEEN WALKS AND CURBS SHALL DRAIN FREELY TO THE CURB UNLESS OTHERWISE IDENTIFIED ON THE GRADING PLAN. IN NO CASE SHALL THE GRADE, TURF THATCH, OR OTHER LANDSCAPE MATERIALS DAM WATER AGAINST WALKS. MINIMUM SLOPES ON LANDSCAPE AREAS SHALL BE 2%; MAXIMUM SLOPE SHALL BE 25% UNLESS SPECIFICALLY IDENTIFIED ON THE PLANS OR APPROVED BY THE OWNER'S REPRESENTATIVE.
9. PRIOR TO INSTALLATION OF PLANT MATERIALS, AREAS THAT HAVE BEEN COMPACTED OR DISTURBED BY CONSTRUCTION ACTIVITY SHALL BE THOROUGHLY LOOSENED TO A DEPTH OF 8" - 12" AND AMENDED PER SPECIFICATIONS.
10. ALL LANDSCAPED AREAS ARE TO RECEIVE ORGANIC SOIL PREPARATION AT __4__cu.yrds/1,000sf OR AS NOTED IN THE TECHNICAL SPECIFICATIONS.
11. TREES SHALL NOT BE LOCATED IN DRAINAGE SWALES, DRAINAGE AREAS, OR UTILITY EASEMENTS. CONTACT OWNER'S REPRESENTATIVE FOR RELOCATION OF PLANTS IN QUESTIONABLE AREAS PRIOR TO INSTALLATION.
12. THE CENTER OF EVERGREEN TREES SHALL NOT BE PLACED CLOSER THAN 8' AND THE CENTER OF ORNAMENTAL TREES CLOSER THAN 6' FROM A SIDEWALK, STREET OR DRIVE LANE. EVERGREEN TREES SHALL NOT BE LOCATED ANY CLOSER THAN 15' FROM IRRIGATION ROTOR HEADS. NOTIFY OWNER'S REPRESENTATIVE IF TREE LOCATIONS CONFLICT WITH THESE STANDARDS FOR FURTHER DIRECTION.
13. ALL EVERGREEN TREES SHALL BE FULLY BRANCHED TO THE GROUND AND SHALL NOT EXHIBIT SIGNS OF ACCELERATED GROWTH AS DETERMINED BY THE OWNER'S REPRESENTATIVE.
14. ALL TREES INSTALLED ABOVE RETAINING WALLS UTILIZING GEO-GRID MUST BE HAND DUG TO PROTECT GEO-GRID. IF GEO-GRID MUST BE CUT TO INSTALL TREES, APPROVAL MUST BE GIVEN BY OWNER'S REPRESENTATIVE PRIOR TO DOING WORK.
15. ALL TREES IN SEED OR TURF AREAS SHALL RECEIVE MULCH RINGS. OBTAIN APPROVAL FROM OWNER'S REPRESENTATIVE FOR ANY TREES THAT WILL NOT BE MULCHED FOR EXCESSIVE MOISTURE REASONS.
16. SHRUB, GROUNDCOVER AND PERENNIAL BEDS ARE TO BE CONTAINED BY EDGER AS SPECIFIED IN MATERIALS SCHEDULE. EDGER IS NOT REQUIRED WHEN ADJACENT TO CURBS, WALLS, WALKS OR SOLID FENCES WITHIN 3" OF PRE-MULCHED FINAL GRADE. EDGER SHALL NOT BE REQUIRED TO SEPARATE MULCH TYPES UNLESS SPECIFIED ON THE PLANS.
17. ALL SHRUB BEDS ARE TO BE MULCHED WITH LANDSCAPE MULCH AS SPECIFIED IN MATERIALS SCHEDULE. LANDSCAPE
18. AT SEED AREA BOUNDARIES ADJACENT TO EXISTING NATIVE AREAS, OVERLAP ABUTTING NATIVE AREAS BY THE FULL WIDTH OF THE SEEDER.
19. EXISTING TURF AREAS THAT ARE DISTURBED DURING CONSTRUCTION, ESTABLISHMENT AND THE MAINTENANCE PERIOD SHALL BE RESTORED WITH NEW SOD TO MATCH EXISTING TURF SPECIES. DISTURBED NATIVE AREAS WHICH ARE TO REMAIN SHALL BE OVER SEEDED AND RESTORED WITH SPECIFIED SEED MIX.
20. CONTRACTOR SHALL OVER SEED ALL MAINTENANCE OR SERVICE ACCESS BENCHES AND ROADS WITH SPECIFIED SEED MIX UNLESS OTHERWISE NOTED ON THE PLANS.
21. ALL SEEDED SLOPES EXCEEDING 25% IN GRADE (4:1) SHALL RECEIVE EROSION CONTROL BLANKETS. PRIOR TO INSTALLATION, NOTIFY OWNER'S REPRESENTATIVE FOR APPROVAL OF LOCATION AND ANY ADDITIONAL COST IF A CHANGE ORDER IS NECESSARY.
22. WHEN COMPLETE, ALL GRADES SHALL BE WITHIN +/- 1/8" OF FINISHED GRADES AS SHOWN ON THE PLANS.
23. WHEN PLANTER URNS ARE SHOWN ON PLANS, CONTRACTOR SHALL INCLUDE THE FOLLOWING: PLANTER MIX, ANNUAL FLOWER PLANTING PROGRAM (INCLUDES 2 PLANTINGS FOR THE 1ST YEAR (SPRING AND FALL) AND WINTER HAND-WATERING AS NEEDED. UNLESS OTHERWISE SPECIFIED, CONTRACTOR TO PROVIDE ANNUAL PLANTING SELECTION FOR REVIEW BY OWNER. IRRIGATION FOR PLANTERS TO BE ON SEPARATE ZONE(S). CONTRACTOR TO COORDINATE PLACEMENT OF NECESSARY SLEEVING PRIOR TO PLACEMENT OF PAVEMENT.
24. PRIOR TO THE PLACEMENT OF MULCH AND WEED FABRIC, A GRANULAR, PRE-EMERGENT, WEED CONTROL AGENT SHALL BE ADDED TO ALL PLANTING BEDS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTION, EXCEPT AROUND ORNAMENTAL GRASSES.
25. THE CONTRACTOR IS EXPECTED TO KNOW AND UNDERSTAND THE CITY AND COUNTY SPECIFICATIONS FOR LANDSCAPE AND IRRIGATION. IN CASES OF DISCREPANCIES THE HIGHER OF THE TWO STANDARDS SHALL HAVE PRECEDENCE.
26. THE DEVELOPER, HIS SUCCESSORS AND ASSIGNS SHALL BE RESPONSIBLE FOR THE INSTALLATION, MAINTENANCE AND REPLACEMENT OF ALL IMPROVEMENTS SHOWN OR INDICATED ON THE APPROVED LANDSCAPE PLAN ON FILE IN THE PLANNING DEPARTMENT.

IRRIGATION GENERAL NOTES

1. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO INSTALL THE IMPROVEMENTS SHOWN ON THE PLANS.
2. THE CONTRACTOR SHALL COORDINATE AS NECESSARY WITH THE GENERAL CONTRACTOR AND OWNER'S REPRESENTATIVE FOR SUCCESSFUL COMPLETION OF THIS WORK.
3. ALL IRRIGATION EQUIPMENT IS TO BE AS SPECIFIED OR APPROVED EQUAL PER THE DISCRETION OF THE OWNER'S REPRESENTATIVE. THE CONTRACTOR ASSUMES ALL LIABILITY ASSOCIATED WITH THE MODIFICATION OF THE IRRIGATION SYSTEM DESIGN WITHOUT NOTIFYING THE OWNER'S REPRESENTATIVE.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONDUCT A THOROUGH SITE INSPECTION AND REVIEW OF THE PROJECT CONSTRUCTION DOCUMENTS INCLUDING BUT NOT LIMITED TO THE FOLLOWING: LANDSCAPE PLAN, UTILITY PLAN, CIVIL UTILITY PLAN, ARCHITECTURE PLAN, GRADING AND DRAINAGE PLAN AND ALL OTHER ASSOCIATED PLANS AND SPECIFICATIONS THAT AFFECT THIS WORK PRIOR TO START OF WORK. IF THE AND CONTRACTOR OBSERVES ANY DISCREPANCIES AMONG THE CONSTRUCTION DOCUMENTS AND THE EXISTING CONDITIONS ON SITE, IT IS THEIR RESPONSIBILITY TO CONTACT THE OWNER'S REPRESENTATIVE IMMEDIATELY.
5. THE CONTRACTOR MUST VERIFY THE LOCATION OF ALL PUBLIC AND PRIVATE UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. IF THE CONTRACTOR FAILS TO DO SO AND DAMAGES ANY UNDERGROUND UTILITIES. THE CONTRACTOR SHALL PAY FOR ANY REPAIR WORK ASSOCIATED WITH SAID DAMAGES.
6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ADEQUATE VERTICAL AND HORIZONTAL SEPARATION BETWEEN ALL IRRIGATION DISTRIBUTION LINES AND ALL UTILITIES (EXISTING OR PROPOSED), CONDUIT, STORM WATER COMPONENTS, DRAINS, ETC.
7. THE CONTRACTOR SHALL CONFORM TO ALL LOCAL AND STATE REGULATIONS AND INSTALL THE IRRIGATION SYSTEM AND ITS COMPONENTS PER MANUFACTURER'S SPECIFICATIONS. THE CONTRACTOR SHALL OBTAIN AND PROVIDE PAYMENT FOR ALL PERMITS REQUIRED BY ANY LOCAL AND STATE AGENCIES AND UTILITY COMPANIES HAVING JURISDICTION OVER THIS SITE.
8. THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AND PAYING FOR CERTIFICATION OF THE BACKFLOW PREVENTER BY A STATE CERTIFIED INSPECTOR. THE CONTRACTOR SHALL PROVIDE CERTIFICATES TO OWNER'S REPRESENTATIVE PRIOR TO PROJECT ACCEPTANCE.
9. IT IS THE INTENT OF THIS DESIGN THAT ALL IRRIGATION EQUIPMENT BE INSTALLED WITHIN LANDSCAPE AREAS AND WITHIN THE PROJECT LIMITS. EQUIPMENT SHOWN OUTSIDE OF THESE LIMITS IS SHOWN FOR GRAPHIC CLARITY ONLY. IF THERE IS A QUESTION REGARDING THE LOCATION OF ANY COMPONENT OF THE IRRIGATION SYSTEM, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNER'S REPRESENTATIVE. IF THE CONTRACTOR NEGLECTS TO NOTIFY THE NECESSARY PARTIES, THE CONTRACTOR SHALL PAY FOR ANY REPLACEMENT OR MODIFICATION TO ENSURE PROPER LOCATION AND OPERATION OF THE IRRIGATION SYSTEM AND ITS COMPONENTS.
10. ALL IRRIGATION DISTRIBUTION LINES AND EQUIPMENT INCLUDING BUT NOT LIMITED TO, MAINLINE, LATERALS, SPRAY HEADS, DRIP EMITTERS SHALL BE KEPT A MINIMUM DISTANCE OF 6' AWAY FROM ALL BUILDING AND WALL FOUNDATIONS, OR AS STIPULATED IN THE GEOTECHNICAL REPORT , WHICHEVER IS GREATER. EQUIPMENT MAY BE SHOWN IN THIS AREA FOR GRAPHIC CLARITY. COORDINATE ALL REQUIRED SETBACKS WITH OWNER'S REPRESENTATIVE PRIOR TO START OF WORK.
11. EACH VALVE SHALL BE INSTALLED IN A SEPARATE VALVE BOX AS DETAILED. ALL VALVE BOXES AND LIDS SHALL BE COMMERCIAL GRADE, PLASTIC WITH SELF LOCKING COVERS. LID COLOR TO BE GREEN. INSTALL FLUSH TO FINISH GRADE AND PER CONSTRUCTION DETAILS. DO NOT INSTALL IN PAVED AREAS OR IN BOTTOMS OF DRAINAGE SWALES/BASINS.
12. CONTRACTOR SHALL INSTALL DETECTABLE MARKING TAPE OR #14g DIRECT BURY TRACER WIRE IN ALL PRESSURE MAINLINE TRENCHES. SEE IRRIGATION DETAILS FOR MORE INFORMATION.
13. PLANT MATERIAL LOCATIONS TAKE PRECEDENCE OVER ROUTING OF IRRIGATION PIPING. COORDINATE INSTALLATION OF IRRIGATION EQUIPMENT SO THAT IT DOES NOT INTERFERE WITH THE PLANTING OF TREES OR OTHER LANDSCAPE MATERIAL.
14. IRRIGATION CONSTRUCTION DOCUMENTS TO BE PROVIDED WITH CONSTRUCTION DOCUMENT SUBMITTAL.
15. ALL TREES AND SHRUBS TO BE DRIP IRRIGATION.
16. RAIN SENSOR TO BE PROVIDED WITH PERMANENT IRRIGATION SYSTEM.
17. NON-IRRIGATED NATIVE SEED SHALL HAVE TEMPORARY IRRIGATION FOR 3 YEARS TO ESTABLISH AREAS.
18. THE CONTRACTOR SHALL MARK THE LOCATION OF THE MAINLINE, CONTROL VALVES, GATE VALVES AND HEAD LAYOUT OF A REPRESENTATIVE SPRAY ZONE. SCHEDULE A REVIEW WITH THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
19. INSTALL SCH. 40 BALL WITH OPERATIONAL INDICATOR AT ENDS OF ALL DRIP LATERALS AS DETAILED. FLUSH ALL LATERALS THOROUGHLY BEFORE INSTALLING EMITTERS AND BUBBLERS.
20. CONTRACTOR SHALL FINE TUNE AND ADJUST NOZZLE DIRECTION AND RADIUS TO REDUCE OVERSPRAY ONTO PAVING OR HARD SURFACES.
21. CONTRACTOR SHALL INSTALL A QUICK COUPLER IN 10" VALVE BOX AT THE END OF ALL BRANCHES OF THE MAINLINE, OR AS SHOWN ON PLANS, FOR WINTERIZATION AND FLUSHING OF MAINLINE.
22. THE CONTRACTOR SHALL PERFORM A PRESSURE TEST ON ALL MAINLINES. CONTRACTOR SHALL PRESSURIZE MAINLINES TO 120 PSI AND MAINTAIN PRESSURE AT 120 PSI FOR A MINIMUM CONTINUOUS PERIOD OF TWO (2) HOURS TO ACHIEVE FINAL ACCEPTANCE.
23. THIS IRRIGATION SYSTEM HAS BEEN DESIGNED TO OPERATE DURING A THREE(3) NIGHT PER WEEK, SIXTEEN(16) HOURS PER NIGHT WATERING WINDOW. DRIP IRRIGATION ZONES MAY BE ALLOWED TO RUN ON A SEPARATE SCHEDULE FROM THIS WATER WINDOW DEPENDING JURISDICTION. LANDSCAPE ESTABLISHMENT WILL REQUIRE INCREASED IRRIGATION WATER FOR DURATION OF THE ESTABLISHMENT PERIOD AND MAY REQUIRE TWICE THE AMOUNT OF WATER AS ESTABLISHED PLANT MATERIAL. THE CONTRACTOR SHALL COORDINATE WATERING SCHEDULES AND APPLICATION RATES WITH THE OWNER'S REPRESENTATIVE PRIOR TO FINAL ACCEPTANCE.
24. THE DESIGN IS BASED ON THE FOLLOWING PROJECTED PEAK SEASON WEEKLY APPLICATION RATES AFTER ESTABLISHMENT. THESE FIGURES WILL NEED TO BE ADJUSTED DUE TO SEASONAL CHANGES AND VARIABLE WEATHER CONDITIONS.
    - FESCUE/BLUEGRASS BLEND TURF 1.75" PER WEEK PEAK SEASON
    - TREE, SHRUB, AND PERENNIAL PLANT MATERIAL 1.00" PER WEEK PEAK SEASON
    - NATIVE DRAUGHT TOLERANT SEED MIX 0.75" PER WEEK PEAK SEASON
21. THE CONTRACTOR SHALL PROVIDE A SEASONAL MAINTENANCE SCHEDULE WHICH SHALL BEGIN APPROXIMATELY MAY 15TH AND END APPROXIMATELY SEPTEMBER 15TH TO ENSURE THE EFFICIENCY AND LONGEVITY OF THE IRRIGATION SYSTEM. THE MAINTENANCE SCHEDULE SHALL INCLUDE BUT IS NOT LIMITED TO THE FOLLOWING LIST OF BEST MANAGEMENT PRACTICES:
    - CHECK HEADS FOR COVERAGE AND LEAKAGE.
    - CHECK CONTROLLER PROGRAMMING AND ADJUST FOR SEASONAL CHANGES AS NECESSARY.
    - VERIFY THAT THE WATER SUPPLY AND PRESSURE ARE AS STATED IN THE DESIGN.
    - CERTIFY THE BACKFLOW PREVENTION DEVICE AND SUBMIT TEST RESULTS TO THE PROPERTY MANAGER.
    - PERIODICALLY VERIFY THE THE SENSORS IN THE IRRIGATION SYSTEM ARE OPERATING CORRECTLY.
    - WINTERIZATION AND SPRING START UP PROCEDURES.

SHEET INDEX

LP-001	LANDSCAPE NOTES
LP-002	LANDSCAPE SCHEDULE
LP-003	LANDSCAPE SCHEDULE ALTERNATE
LP-100	OVERALL LANDSCAPE PLAN
LP-101	LANDSCAPE PLAN
LP-102	LANDSCAPE PLAN
LP-400	OVERALL LANDSCAPE PLAN ALTERNATE
LP-401

LANDSCAPE MATERIALS SCHEDULE

	CODE	DESCRIPTION	PRODUCT NAME	MANUFACTURER	CONTACT	MODEL #	COLOR / FINISH	SIZE / DIMENSIONS	DETAIL	NOTES
	M-01	PAVERS	WINDERMERE FLAGSTONE PAVERS	UNILOCK	N/A	N/A	SAFARI STONE, GREY SAND JOINTING	3-STONE RANDOM BUNDLE- PATTERN A	4/LP-502	REFER TO DETAIL, INSTALL PER MANURFACTURES SPECIFICATION
	M-02	COBBLE MULCH	HORIZON RIVER ROCK MULCH	PIONEER SAND OR LOCAL SUPPLIER (OR APPROVED EQUAL)	N/A		NATURAL	1.5" DIA., 4" MIN. DEPTH, SEE PLANS FOR AREA		TO BE INSTALLED IN ALL LANDSCAPE BEDS OVER SPECIFIED LANDSCAPE BARRIER FABRIC. SEE SPECIFICATIONS.
	M-03	CONCRETE	REFER:CIVIL				NATURAL. SWIRL FINISH			
	M-04	SYNTHETIC TURF	LANDSCAPE FRESH	FOREVERLAWN	DENA PARKER <DENA@FOREVERLAWN MILEHIGH.COM>	N/A	YARN: SUMMER GREEN, SECONDARY:TURF GREEN	7/8" PILE	2 / LP-501	INSTALL PER MANUFACTURER`S SPECIFICATIONS, REFER TO DETAIL
	M-07	BENDA BOARD EDGER	BENDA BOARD EDGER	EPIC PLASTICS OR APPROVED EQUAL	N/A	N/A	TEAK	1"X6" REFER TO PLANS FOR LENGTH AND LOCATION	2/LP-502	INSTALL PER MANUFACTURER`S SPECIFICATIONS, REFER TO DETAIL.
	M-08	THIN STONE VENEER	THIN STONE VENEER	LYONS SANDSTONE OR APPROVED EQUAL			ASPEN LEDGE	3" X 18" VEIN CUT (SPLIT FACE) SAWN FINISH WITH LIGHT GREY MORTAR		INSTALL PER MANUFACTURERS SPECIFICATIONS. REFER TO DETAILS AND PLANTS FOR LOCATIONS. INSTALL WITH PLYMER ENHANCED BACKER
	M-09	STONE CAP	STONE CAP	LYONS SANDSTONE OR APPROVED EQUAL	N/A	MEDIUM SLAB	ASPEN LEDGE	3" THICK, 24" LENGTH, NATURAL CLEFT TOP AND SNAP CUT EDGES		INSTALL PER MANUFACTURERS SPECIFICATIONS. REFER TO DETAILS AND PLANTS FOR LOCATIONS. INSTALL WITH PLYMER ENHANCED BACKER

CODE	DESCRIPTION	DETAIL
N-01	TREE PLANTING	3 / LP-501
N-02	SHRUB PLANTING	1/ LP-501
N-03	TREE PLANTING ON SLOPE	3 / LP-502
N-04	CONCRETE PLANTER SEATWALL	5 / LP-502
N-05	6" CONCRETE CURB	

AMENITY MATERIALS SCHEDULE

CODE	DESCRIPTION	PRODUCT NAME	MANUFACTURER	CONTACT	MODEL #	COLOR / FINISH	SIZE / DIMENSIONS	DETAIL	NOTES
MS-01	SHADESAIL (A)	TENSHON SHADESAILS	TENSHON	INFO@TENSHON.COM	TS-1724	TBD	24 X 17 X 17		

SYMBOL	DESCRIPTION	PRODUCT NAME	MANUFACTURER	CONTACT	MODEL #	COLOR / FINISH	SIZE / DIMENSIONS	DETAIL	NOTES
MS-03	POOL LOUNGER	LANE VENTURE CASPTONE ALUMINUM DINING SET	CAPSTONE SLING COLLECTION	WWW.PATIOCONTRACT.COM	LAV40440	FRAME FINISH: TEXTURED WHITE, SLING: PHIFERTEX WHITNEY AQUAMARINE SLING	22``W X 53``D X 14``H	WEATHER-RESISTANT POWDER-COATED PREMIUM ALUMINUM FRAME. 4 POS. RECLINING BACK, LATS FLAT.STACKABLE	PHASE 2 RECOMMENDED SITE FURNITURE/AMERNITES. PHASE 2 IS NOT INCLUDED IN SCOPE OF WORK. AMENITES LIST TO PROVID DIRECTION TO FURTURE IMPROVEMENTS
MS-04	POOL DINING SETS	LANE VENTURE CASPTONE ALUMINUM DINING SET	CAPSTONE SLING COLLECTION	WWW.PATIOCONTRACT.COM	LAVCPSTNESLDINSET1	ALUMINIUM 42" ROUND TABLE - FRAME FINISH: TEXTURED WHITE. ARM CHAIR: FRAME FINISH: TEXTURE WHITE, SLING FABRIC: PHIFERTEX WHITNEY AQUAMIRINE SLING.	TABLE: 42``W X 42``D X 30``H. ARMED CHAIR: 26``W X 28``D X 35``H	4-PERSON SEATING SET	PHASE 2 RECOMMENDED SITE FURNITURE/AMERNITES. PHASE 2 IS NOT INCLUDED IN SCOPE OF WORK. AMENITES LIST TO PROVID DIRECTION TO FURTURE IMPROVEMENTS

PLANT SCHEDULE

CODE	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	WATER USE	HEIGHT	SPREAD
DECIDUOUS CANOPY TREES								
GL SH	5	GLEDITSIA TRIACANTHOS INERMIS `SHADEMASTER`	SHADEMASTER HONEY LOCUST	B & B	3" CAL.	MOD	40`-50`	25`-30`
PO ER	21	POPULUS TREMULOIDES ERECTA	SWEDISH ASPEN	B & B	3" CAL.	MOD	40`-50`	8`-10`
TI GR	3	TILIA CORDATA `GREENSPIRE`	GREENSPIRE LITTLELEAF LINDEN	B & B	2"CAL	MOD	30`-40`	25`-30`
EVERGREEN TREES								
PI PU	1	PICEA PUNGENS	COLORADO SPRUCE	B & B	6` HEIGHT	MOD	40`-50`	25`-30`
PS ME	5	PSEUDOTSUGA MENZIESII	DOUGLAS FIR	B & B	6` HEIGHT	MOD	50`-80`	20`-25`
ORNAMENTAL TREES								
AM AL	1	AMELANCHIER ALNIFOLIA	SASKATOON SERVICEBERRY	B & B	6` CLUMP	LOW	15`-20`	8`-10`
DECIDUOUS SHRUBS								
EU AL	11	EUONYMUS ALATUS `COMPACTUS`	COMPACT BURNING BUSH	CONT.	#5	MOD	7`-8`	7`-8`
FO SB	7	FORSYTHIA X INTERMEDIA `NIMBUS`	SHOW OFF® SUGAR BABY® DWARF FORSYTHIA	CONT.	#5	LOW	5`-6`	5`-6`
PO FR	10	POTENTILLA FRUTICOSA	BUSH CINQUEFOIL	CONT.	#5	LOW	2`-3`	2`-3`
EVERGREEN SHRUBS								
AR UV	18	ARCTOSTAPHYLOS UVA-URSI	KINNIKINNICK	CONT.	#1	LOW	<1`	4`-5`
ORNAMENTAL GRASSES								
CA KA	29	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	KARL FOERSTER FEATHER REED GRASS	CONT.	#5	LOW	3`-4`	1`-2`

CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	WATER USE	NOTES
GROUND COVERS						
TUR BLA	7,069 SF	COLORADO BLACK BEAUTY FESCUE SOD	COLORADO BLACK BEAUTY FESCUE SOD	-		
SEE PBS	14,507 SF	SEED PBSI LOW GROW NATIVE SEED MIX	BY PAWNEE BUTTES SEED	-		

IRRIGATED LOW WATER TURF BLEND

SOD: COLORADO BLACK BEAUTY FESCUE SOD
2197 W. COLLEGE AVE. ENGLEWOOD, CO 80110
PH: 303-922-6392

IRRIGATED NATIVE SEED MIX (AND TEMP)

COMMON NAME
ARIZONA FESCUE
SANDBERG BLUEGRASS
ROCKY MOUNTAIN FESCUE
TOTAL: 100

PAWNEEBUTTESSEED.COM
SPREAD SEED AT A RATE OF 5LBS PER 1,000 SQFT

OLC
2000 LAWRENCE ST
DENVER, COLORADO 80205
T: 303.294.9244
www.olcdesigns.com

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
	03/11/2024	50% CDs
	03/22/2024	EAGLE SITE PLAN APPLICATION 02

SCALE: N/A
ISSUE DATE: 03/11/2024
PROJECT #: 1250-01-3647
TITLE: LANDSCAPE SCHEDULE

SHEET #:
LP-002

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ALTERNATE LANDSCAPE MATERIALS SCHEDULE

	CODE	DESCRIPTION	PRODUCT NAME	MANUFACTURER	CONTACT	MODEL #	COLOR / FINISH	SIZE / DIMENSIONS	DETAIL	NOTES
	M-01	PAVERS	WINDERMERE FLAGSTONE PAVERS	UNILOCK	N/A	N/A	SAFARI STONE, GREY SAND JOINTING	3-STONE RANDOM BUNDLE- PATTERN A	4/LP-502	REFER TO DETAIL, INSTALL PER MANURFACTURES SPECIFICATION
	M-02	COBBLE MULCH	HORIZON RIVER ROCK MULCH	PIONEER SAND OR LOCAL SUPPLIER (OR APPROVED EQUAL)	N/A		NATURAL	1.5" DIA., 4" MIN. DEPTH, SEE PLANS FOR AREA		TO BE INSTALLED IN ALL LANDSCAPE BEDS OVER SPECIFIED LANDSCAPE BARRIER FABRIC. SEE SPECIFICATIONS.
	M-03	CONCRETE	REFER:CIVIL				NATURAL. SWIRL FINISH			
	M-04	SYNTHETIC TURF	LANDSCAPE FRESH	FOREVERLAWN	DENA PARKER <DENA@FOREVERLAWNMILEHIGH.COM>	N/A	YARN: SUMMER GREEN, SECONDARY:TURF GREEN	7/8" PILE	2 / LP-501	INSTALL PER MANUFACTURER`S SPECIFICATIONS, REFER TO DETAIL
	M-05	BOULDER RIP RAP	MOUNTAIN GRANITE	PIONEER SAND OR APPROVED EQUAL	N/A	N/A	ORANGESM BROWN, RED TONES, GREAY AND CREAM	5"-18"		
	M-07	BENDA BOARD EDGER	BENDA BOARD EDGER	EPIC PLASTICS OR APPROVED EQUAL	N/A	N/A	TEAK	1"X6" REFER TO PLANS FOR LENGTH AND LOCATION	2/LP-502	INSTALL PER MANUFACTURER`S SPECIFICATIONS, REFER TO DETAIL.
	M-08	THIN STONE VENEER	THIN STONE VENEER	LYONS SANDSTONE OR APPROVED EQUAL			ASPEN LEDGE	3" X 18" VEIN CUT (SPLIT FACE) SAWN FINISH WITH LIGHT GREY MORTAR		INSTALL PER MANUFACTURERS SPECIFICATIONS. REFER TO DETAILS AND PLANTS FOR LOCATIONS. INSTALL WITH PLYMER ENHANCED BACKER
	M-09	STONE CAP	STONE CAP	LYONS SANDSTONE OR APPROVED EQUAL	N/A	MEDIUM SLAB	ASPEN LEDGE	3" THICK, 24" LENGTH, NATURAL CLEFT TOP AND SNAP CUT EDGES		INSTALL PER MANUFACTURERS SPECIFICATIONS. REFER TO DETAILS AND PLANTS FOR LOCATIONS. INSTALL WITH PLYMER ENHANCED BACKER

CODE	DESCRIPTION	DETAIL
N-01	TREE PLANTING	3 / LP-501
N-02	SHRUB PLANTING	1/ LP-501
N-03	TREE PLANTING ON SLOPE	3 / LP-502
N-04	CONCRETE PLANTER SEATWALL	5 / LP-502
N-05	6" CONCRETE CURB	

ALTERNATE AMENITIES SCHEDULE

CODE	DESCRIPTION	PRODUCT NAME	MANUFACTURER	CONTACT	MODEL #	COLOR / FINISH	SIZE / DIMENSIONS	DETAIL	NOTES
MS-01	SHADESAIL (A)	TENSHON SHADESAILS	TENSHON	INFO@TENSHON.COM	TS-1724	TBD	24 X 17 X 17		
MS-02	SHADESAIL (B)	TENSHON SHADESAIL	TENSHON	INFO@TENSHON.COM	CUSTOM	TBD	36 X 25 X 25		

SYMBOL	DESCRIPTION	PRODUCT NAME	MANUFACTURER	CONTACT	MODEL #	COLOR / FINISH	SIZE / DIMENSIONS	DETAIL	NOTES
MS-03	POOL LOUNGER	LANE VENTURE CASPTONE ALUMINUM DINING SET	CAPSTONE SLING COLLECTION	WWW.PATIOCONTRACT.COM	LAV40440	FRAME FINISH: TEXTURED WHITE, SLING: PHIFERTEX WHITNEY AQUAMARINE SLING	22``W X 53``D X 14``H	WEATHER-RESISTANT POWDER-COATED PREMIUM ALUMINUM FRAME. 4 POS. RECLINING BACK, LATS FLAT.STACKABLE	PHASE 2 RECOMMENDED SITE FURNITURE/AMERNITES. PHASE 2 IS NOT INCLUDED IN SCOPE OF WORK. AMENITES LIST TO PROVID DIRECTION TO FURTURE IMPROVEMENTS
MS-04	POOL DINING SETS	LANE VENTURE CASPTONE ALUMINUM DINING SET	CAPSTONE SLING COLLECTION	WWW.PATIOCONTRACT.COM	LAVCPSTNESLDINSET1	ALUMINIUM 42" ROUND TABLE - FRAME FINISH: TEXTURED WHITE. ARM	TABLE: 42``W X 42``D X 30``H. ARMED CHAIR:	4-PERSON SEATING SET	PHASE 2 RECOMMENDED SITE FURNITURE/AMERNITES. PHASE 2 IS NOT INCLUDED IN SCOPE OF

ALTERNATE PLANT SCHEDULE

CODE	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	WATER USE	HEIGHT	SPREAD
DECIDUOUS CANOPY TREES								
GL SH	5	GLEDITSIA TRIACANTHOS INERMIS `SHADEMASTER`	SHADEMASTER HONEY LOCUST	B & B	3" CAL.	MOD	40`-50`	25`-30`
PO ER	20	POPULUS TREMULOIDES ERECTA	SWEDISH ASPEN	B & B	3" CAL.	MOD	40`-50`	8`-10`
TI GR	3	TILIA CORDATA `GREENSPIRE`	GREENSPIRE LITTLELEAF LINDEN	B & B	2"CAL	MOD	30`-40`	25`-30`
EVERGREEN TREES								
PI PU	2	PICEA PUNGENS	COLORADO SPRUCE	B & B	6` HEIGHT	MOD	40`-50`	25`-30`
PS ME	4	PSEUDOTSUGA MENZIESII	DOUGLAS FIR	B & B	6` HEIGHT	MOD	50`-80`	20`-25`
ORNAMENTAL TREES								
AM AL	1	AMELANCHIER ALNIFOLIA	SASKATOON SERVICEBERRY	B & B	6` CLUMP	LOW	15`-20`	8`-10`
DECIDUOUS SHRUBS								
EU AL	10	EUONYMUS ALATUS `COMPACTUS`	COMPACT BURNING BUSH	CONT.	#5	MOD	7`-8`	7`-8`
FO SB	6	FORSYTHIA X INTERMEDIA `NIMBUS`	SHOW OFF® SUGAR BABY® DWARF FORSYTHIA	CONT.	#5	LOW	5`-6`	5`-6`
PO FR	10	POTENTILLA FRUTICOSA	BUSH CINQUEFOIL	CONT.	#5	LOW	2`-3`	2`-3`
EVERGREEN SHRUBS								
AR UV	18	ARCTOSTAPHYLOS UVA-URSI	KINNIKINNICK	CONT.	#1	LOW	<1`	4`-5`
ORNAMENTAL GRASSES								
CA KA	24	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	KARL FOERSTER FEATHER REED GRASS	CONT.	#5	LOW	3`-4`	1`-2`

CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	WATER USE	NOTES
GROUND COVERS						
TUR BLA	5,441 SF	COLORADO BLACK BEAUTY FESCUE SOD	COLORADO BLACK BEAUTY FESCUE SOD	-		
SEE PBS	14,218 SF	SEED PBSI LOW GROW NATIVE SEED MIX	BY PAWNEE BUTTES SEED	-		

IRRIGATED LOW WATER TURF BLEND

SOD: COLORADO BLACK BEAUTY FESCUE SOD
2197 W. COLLEGE AVE. ENGLEWOOD, CO 80110
PH: 303-922-6392

IRRIGATED NATIVE SEED MIX (AND TEMP)

COMMON NAME
ARIZONA FESCUE
SANDBERG BLUEGRASS
ROCKY MOUNTAIN FESCUE
TOTAL: 100

PAWNEEBUTTESSEED.COM
SPREAD SEED AT A RATE OF 5LBS PER 1,000 SQFT

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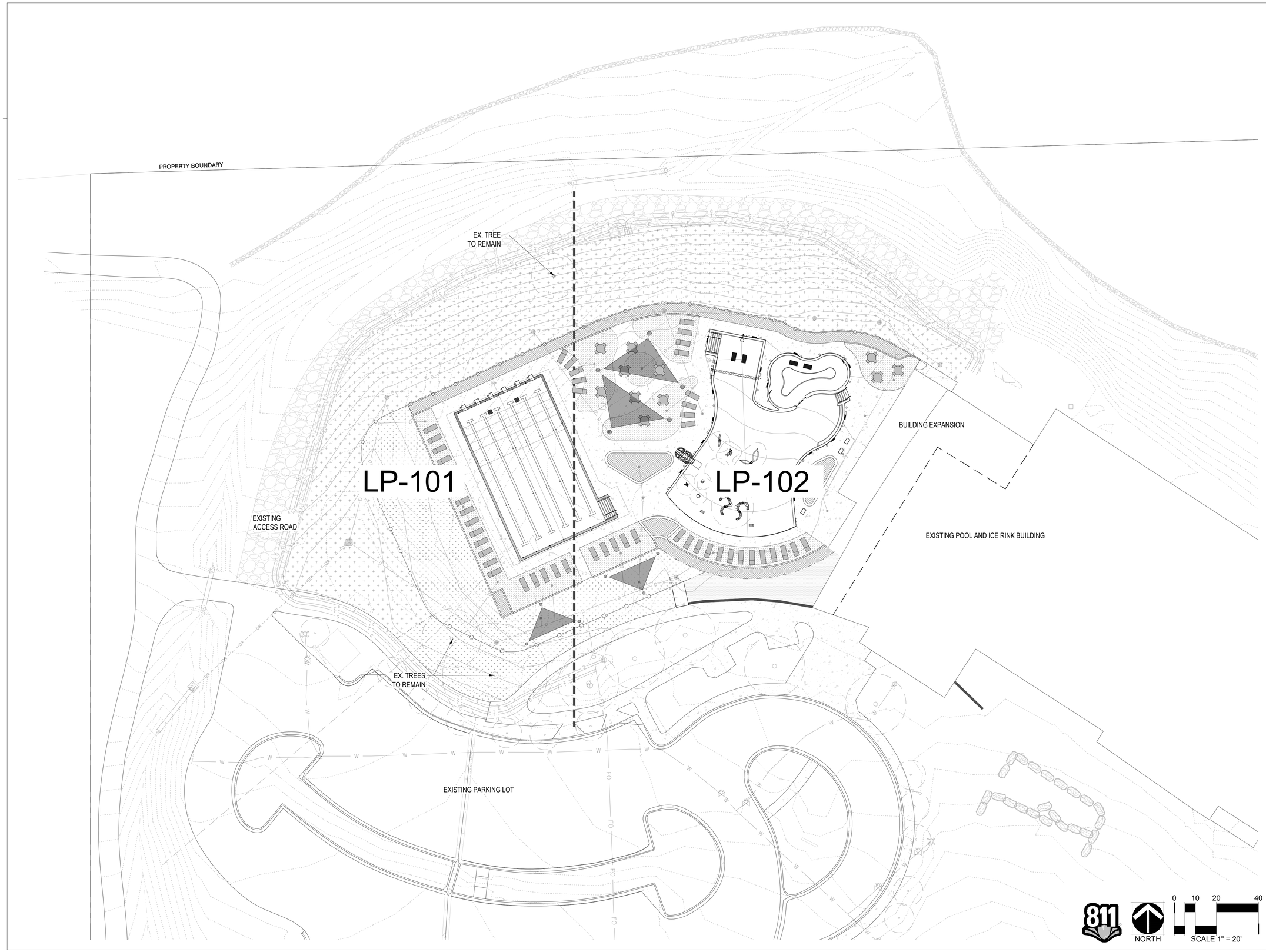
Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

NO.	DATE:	TITLE/PURPOSE:
	01/22/2024	100% DDs
	02/16/2024	EAGLE SITE PLAN APPLICATION
	03/11/2024	50% CDs
	03/22/2024	EAGLE SITE PLAN APPLICATION 02

SCALE: N/A
ISSUE DATE: 03/11/2024
PROJECT #: 1250-01-3647
TITLE: ALTERNATE LANDSCAPE SCHEDULE

SHEET #:
LP-003



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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
	03/11/2024	50% CDs
	03/22/2024	EAGLE SITE PLAN APPLICATION 02

SCALE: 1" = 20'-0"
ISSUE DATE: 03/11/2024
PROJECT #: 1250-01-3647
TITLE: OVERALL LANDSCAPE PLAN

SHEET #:
LP-100

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LEGEND

CODE	DESCRIPTION
M-01	PAVERS
M-02	COBBLE MULCH
M-03	CONCRETE
M-04	SYNTHETIC TURF
M-07	BENDA BOARD EDGER
M-08	THIN STONE VENEER
M-09	STONE CAP

CODE	DESCRIPTION
MS-01	SHADESAIL (A)

SYMBOL	DESCRIPTION
MS-03	POOL LOUNGER
MS-04	POOL DINING SETS

CODE	DESCRIPTION
N-01	TREE PLANTING
N-02	SHRUB PLANTING
N-03	TREE PLANTING ON SLOPE
N-04	CONCRETE PLANTER SEATWALL
N-05	6" CONCRETE CURB

6' CHAIN LINK BLACK FENCE
6' STEEL BLACK POOL FENCE
EXISTING GRADE
PROPOSED GRADE

NOTES:
1. ALL SITE FURNITURE WILL BE PURCHASED/INSTALLED IN FUTURE PHASES.

PLANTING LEGEND

CODE	BOTANICAL NAME	COMMON NAME
DECIDUOUS CANOPY TREES		
GL SH	GLEDITSIA TRIACANTHOS INERMIS `SHADEMASTER`	SHADEMASTER HONEY LOCUST
PO ER	POPULUS TREMULOIDES ERECTA	SWEDISH ASPEN
TI GR	TILIA CORDATA `GREENSPIRE`	GREENSPIRE LITTLELEAF LINDEN
EVERGREEN TREES		
PI PU	PICEA PUNGENS	COLORADO SPRUCE
PS ME	PSEUDOTSUGA MENZIESII	DOUGLAS FIR
ORNAMENTAL TREES		
AM AL	AMELANCHIER ALNIFOLIA	SASKATOON SERVICEBERRY
DECIDUOUS SHRUBS		
EU AL	EUONYMUS ALATUS `COMPACTUS`	COMPACT BURNING BUSH
FO SB	FORSYTHIA X INTERMEDIA `NIMBUS`	SHOW OFF® SUGAR BABY® DWARF FORSYTHIA
PO FR	POTENTILLA FRUTICOSA	BUSH CINQUEFOIL
EVERGREEN SHRUBS		
AR UV	ARCTOSTAPHYLOS UVA-URSI	KINNIKINNICK
ORNAMENTAL GRASSES		
CA KA	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	KARL FOERSTER FEATHER REED GRASS
GROUND COVERS		
TUR BLA	COLORADO BLACK BEAUTY FESCUE SOD	COLORADO BLACK BEAUTY FESCUE SOD
SEE PBS	SEED PBSI LOW GROW NATIVE SEED MIX	BY PAWNEE BUTTES SEED

811

NORTH

0 5 10 20
SCALE 1" = 10'

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DENVER, COLORADO 80205
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www.olcdesigns.com

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
	03/11/2024	50% CDs
	03/22/2024	EAGLE SITE PLAN APPLICATION 02

SCALE: 1" = 10'-0"
ISSUE DATE: 03/11/2024
PROJECT #: 1250-01-3647
TITLE: LANDSCAPE PLAN

SHEET #:
LP-101

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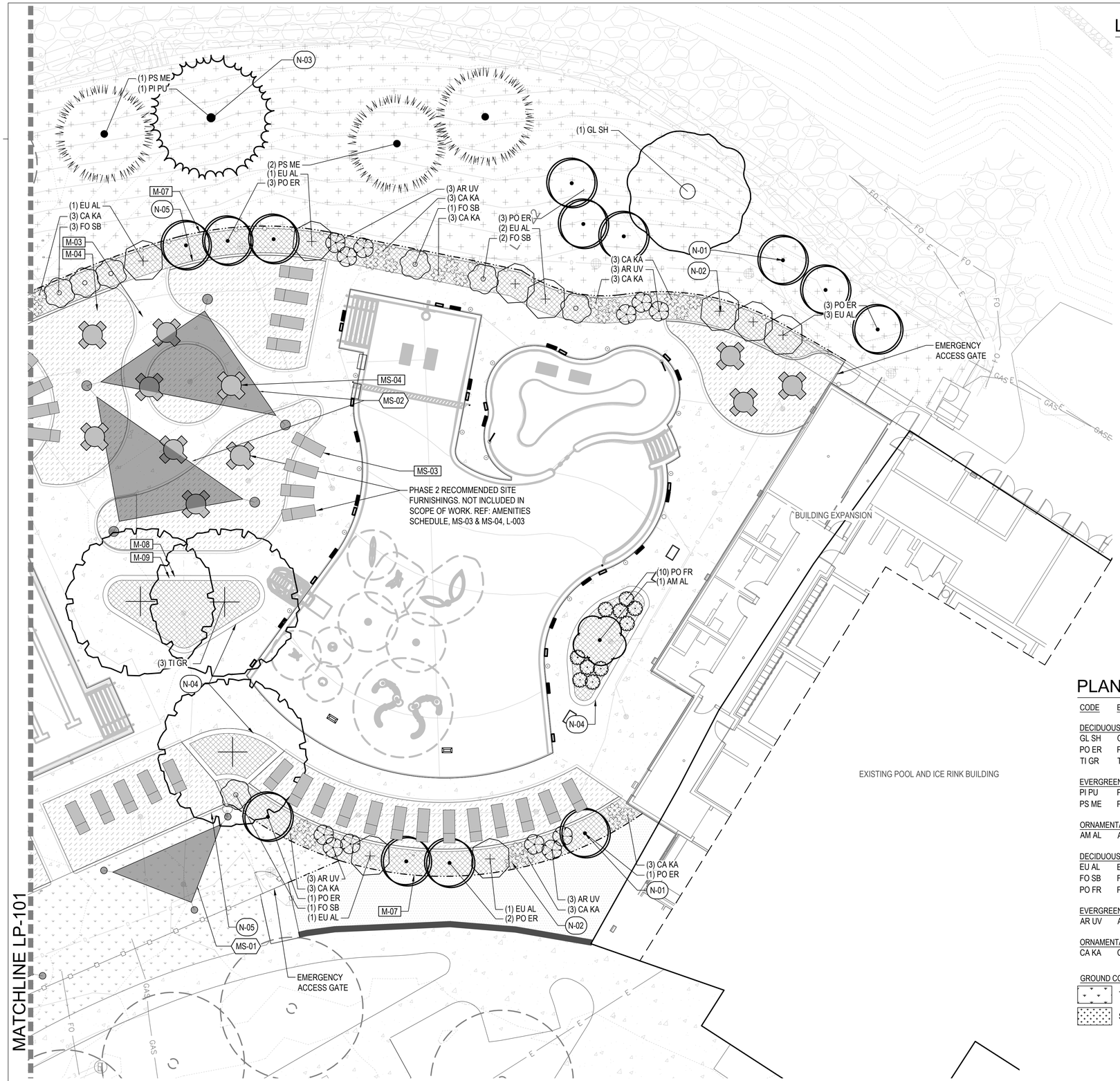

LEGEND

CODE	DESCRIPTION
M-01	PAVERS
M-02	COBBLE MULCH
M-03	CONCRETE
M-04	SYNTHETIC TURF
M-07	BENDA BOARD EDGER
M-08	THIN STONE VENEER
M-09	STONE CAP

CODE	DESCRIPTION
MS-01	SHADESAIL (A)

SYMBOL	DESCRIPTION
MS-03	POOL LOUNGER
MS-04	POOL DINING SETS

CODE	DESCRIPTION
N-01	TREE PLANTING
N-02	SHRUB PLANTING
N-03	TREE PLANTING ON SLOPE
N-04	CONCRETE PLANTER SEATWALL
N-05	6" CONCRETE CURB

6' CHAIN LINK BLACK FENCE

6' STEEL BLACK POOL FENCE

EXISTING GRADE

PROPOSED GRADE

NOTES:
1. ALL SITE FURNITURE WILL BE PURCHASED/INSTALLED IN FUTURE PHASES.

PLANTING LEGEND

CODE	BOTANICAL NAME	COMMON NAME
DECIDUOUS CANOPY TREES		
GL SH	GLEDITSIA TRIACANTHOS INERMIS `SHADEMASTER`	SHADEMASTER HONEY LOCUST
PO ER	POPULUS TREMULOIDES ERECTA	SWEDISH ASPEN
TI GR	TILIA CORDATA `GREENSPIRE`	GREENSPIRE LITTLELEAF LINDEN
EVERGREEN TREES		
PI PU	PICEA PUNGENS	COLORADO SPRUCE
PS ME	PSEUDOTSUGA MENZIESII	DOUGLAS FIR
ORNAMENTAL TREES		
AM AL	AMELANCHIER ALNIFOLIA	SASKATOON SERVICEBERRY
DECIDUOUS SHRUBS		
EU AL	EUONYMUS ALATUS `COMPACTUS`	COMPACT BURNING BUSH
FO SB	FORSYTHIA X INTERMEDIA `NIMBUS`	SHOW OFF® SUGAR BABY® DWARF FORSYTHIA
PO FR	POTENTILLA FRUTICOSA	BUSH CINQUEFOIL
EVERGREEN SHRUBS		
AR UV	ARCTOSTAPHYLOS UVA-URSI	KINNIKINNICK
ORNAMENTAL GRASSES		
CA KA	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	KARL FOERSTER FEATHER REED GRASS
GROUND COVERS		
TUR BLA	COLORADO BLACK BEAUTY FESCUE SOD	COLORADO BLACK BEAUTY FESCUE SOD
SEE PBS	SEED PBSI LOW GROW NATIVE SEED MIX	BY PAWNEE BUTTES SEED

811

NORTH

0 5 10 20

SCALE 1" = 10'

OLC

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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
	03/11/2024	50% CDs
	03/22/2024	EAGLE SITE PLAN APPLICATION 02

SCALE: 1" = 10'-0"
ISSUE DATE: 03/11/2024
PROJECT #: 1250-01-3647
TITLE: LANDSCAPE PLAN

SHEET #:
LP-102

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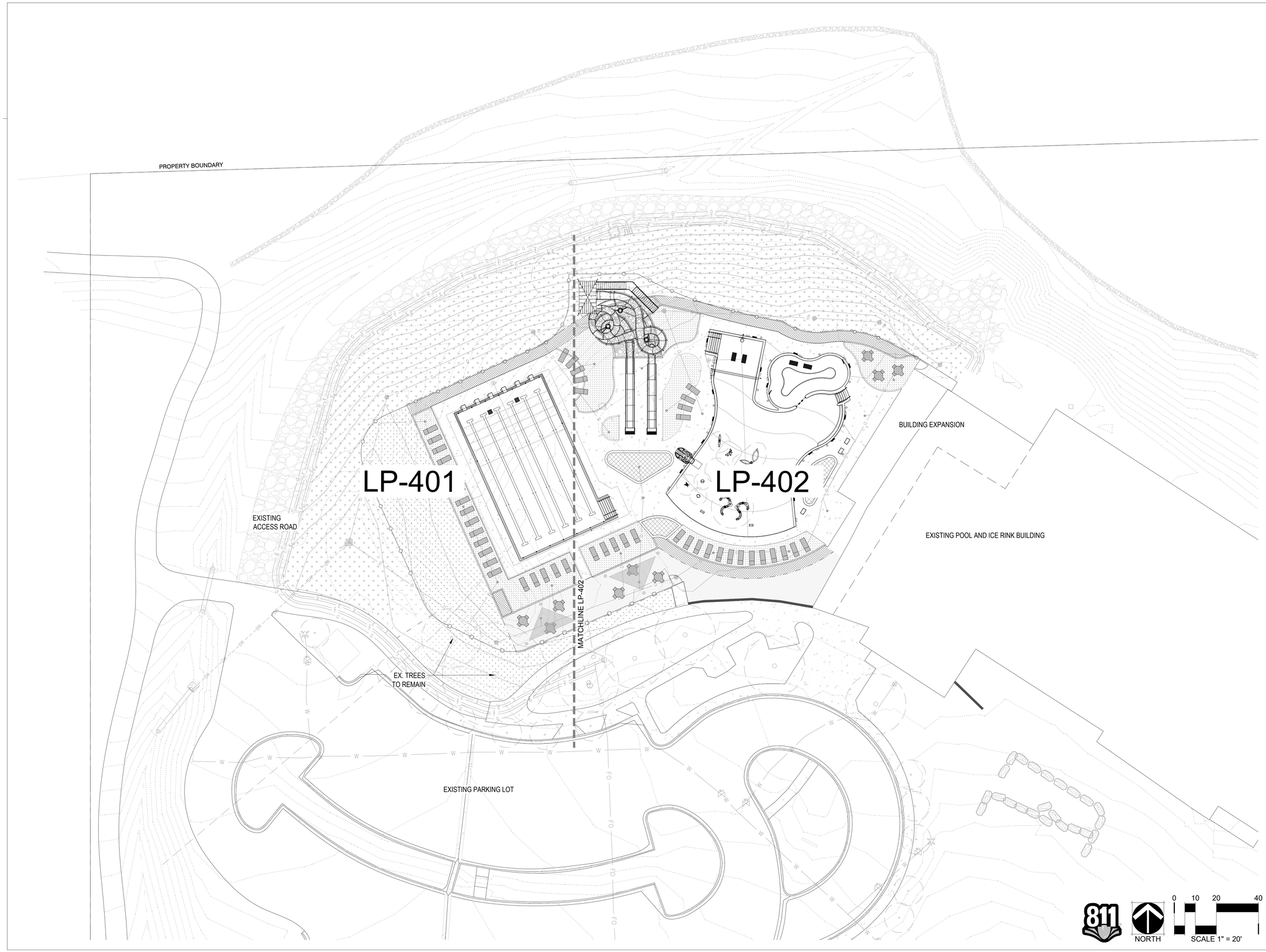

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SCALE: 1" = 20'-0"
ISSUE DATE: 03/11/2024
PROJECT #: 1250-01-3647
TITLE: OVERALL LANDSCAPE PLAN ALTERNATE

SHEET #:
LP-400

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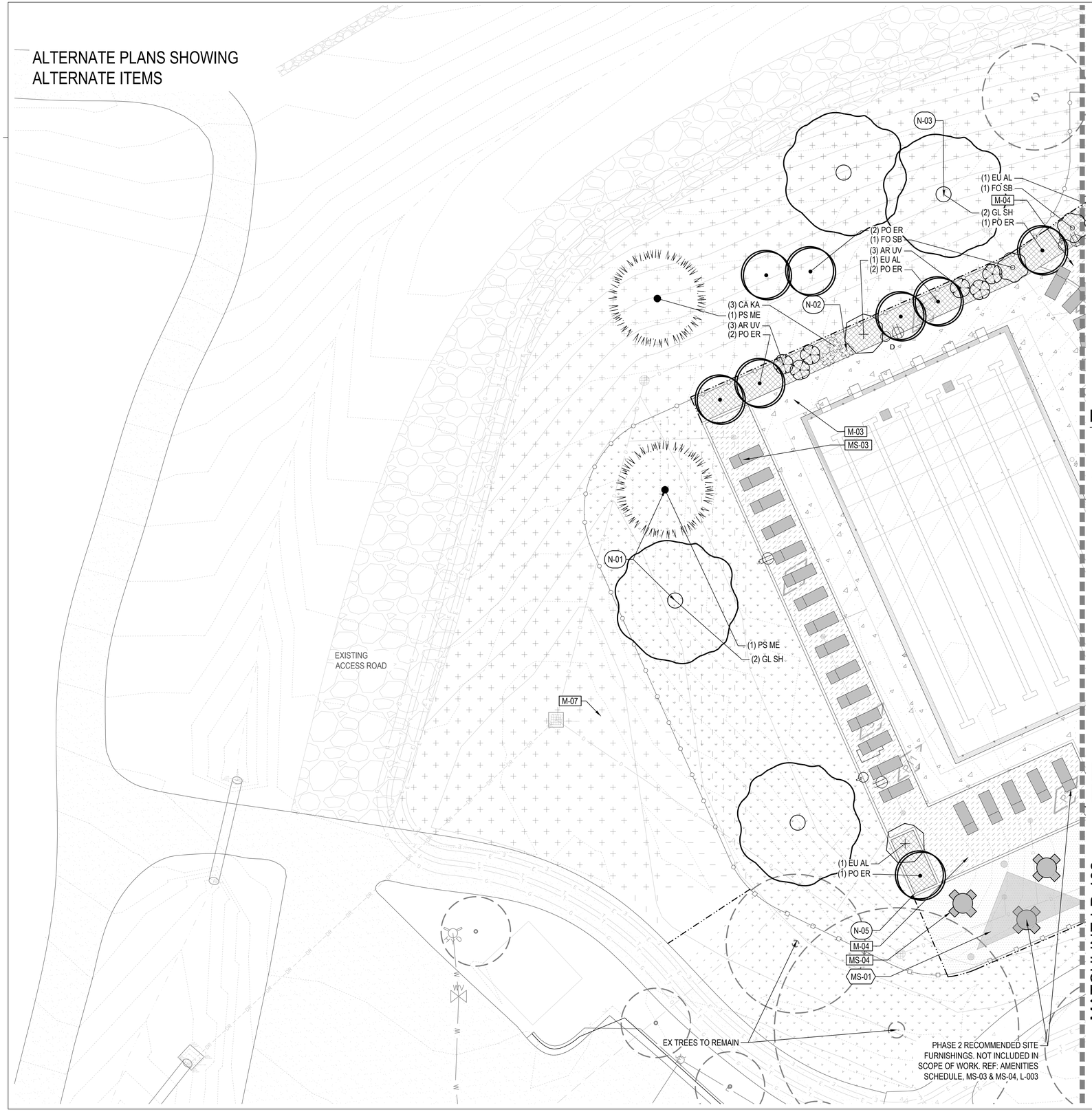
ALTERNATE PLANS SHOWING
ALTERNATE ITEMS



LEGEND

CODE	DESCRIPTION
M-01	PAVERS
M-02	COBBLE MULCH
M-03	CONCRETE
M-04	SYNTHETIC TURF
M-05	BOULDER RIP RAP
M-07	BENDA BOARD EDGER
M-08	THIN STONE VENEER
M-09	STONE CAP
MS-01	SHADESAIL (A)
CODE	DESCRIPTION
N-01	TREE PLANTING
N-02	SHRUB PLANTING
N-03	TREE PLANTING ON SLOPE
N-04	CONCRETE PLANTER SEATWALL
N-05	6" CONCRETE CURB

6' CHAIN LINK BLACK FENCE
6' STEEL BLACK POOL FENCE
EXISTING GRADE
PROPOSED GRADE

NOTES:
1. ALL SITE FURNITURE WILL BE PURCHASED/INSTALLED IN FUTURE PHASES.

PLANTING LEGEND

PLANT SCHEDULE

CODE	BOTANICAL NAME	COMMON NAME
DECIDUOUS CANOPY TREES		
GL SH	GLEDITSIA TRIACANTHOS INERMIS `SHADEMASTER`	SHADEMASTER HONEY LOCUST
PO ER	POPULUS TREMULOIDES ERECTA	SWEDISH ASPEN
TI GR	TILIA CORDATA `GREENSPIRE`	GREENSPIRE LITTLELEAF LINDEN
EVERGREEN TREES		
PI PU	PICEA PUNGENS	COLORADO SPRUCE
PS ME	PSEUDOTSUGA MENZIESII	DOUGLAS FIR
ORNAMENTAL TREES		
AM AL	AMELANCHIER ALNIFOLIA	SASKATOON SERVICEBERRY
DECIDUOUS SHRUBS		
EU AL	EUONYMUS ALATUS `COMPACTUS`	COMPACT BURNING BUSH
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EVERGREEN SHRUBS		
AR UV	ARCTOSTAPHYLOS UVA-URSI	KINNIKINNICK
ORNAMENTAL GRASSES		
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GROUND COVERS		
TUR BLA	COLORADO BLACK BEAUTY FESCUE SOD	COLORADO BLACK BEAUTY FESCUE SOD
SEE PBS	SEED PBSI LOW GROW NATIVE SEED MIX	BY PAWNEE BUTTES SEED

811

NORTH

0 5 10 20
SCALE 1" = 10'

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Mountain Recreation Eagle Pool

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	01/22/2024	100% DDs
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	03/11/2024	50% CDs
	03/22/2024	EAGLE SITE PLAN APPLICATION 02

SCALE: 1" = 10'-0"
ISSUE DATE: 03/11/2024
PROJECT #: 1250-01-3647
TITLE: LANDSCAPE PLAN: ALTERNATE

SHEET #:
LP-401

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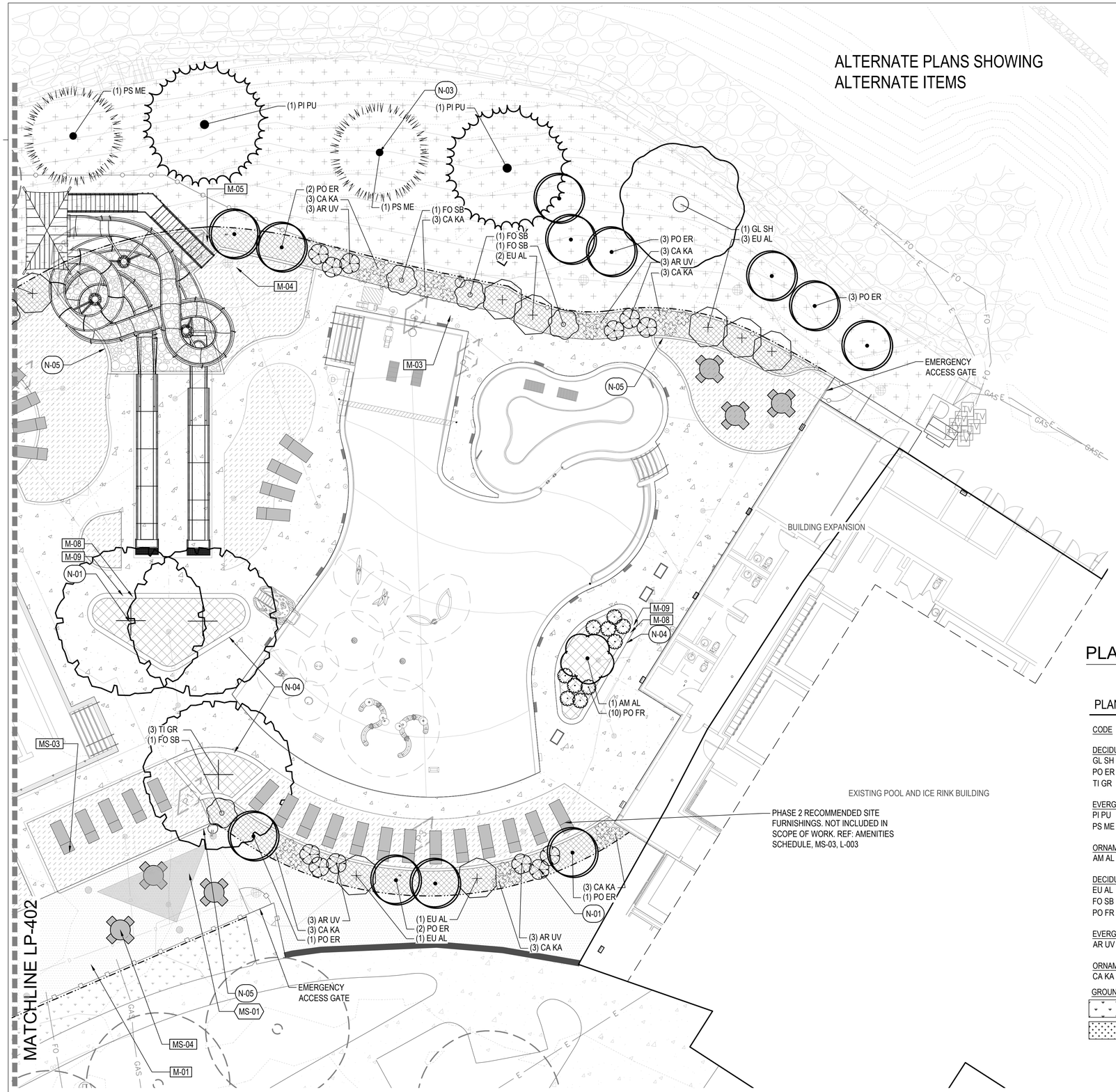

ALTERNATE PLANS SHOWING ALTERNATE ITEMS

LEGEND

	CODE	DESCRIPTION
	M-01	PAVERS
	M-02	COBBLE MULCH
	M-03	CONCRETE
	M-04	SYNTHETIC TURF
	M-05	BOULDER RIP RAP
	M-07	BENDA BOARD EDGER
	M-08	THIN STONE VENEER
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- 6' CHAIN LINK BLACK FENCE
- 6' STEEL BLACK POOL FENCE
- EXISTING GRADE
- PROPOSED GRADE

NOTES:
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PLANTING LEGEND

PLANT SCHEDULE

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SCALE: 1" = 10'-0"
ISSUE DATE: 03/11/2024
PROJECT #: 1250-01-3647
TITLE: LANDSCAPE PLAN; ALTERNATE

SHEET #:
LP-402

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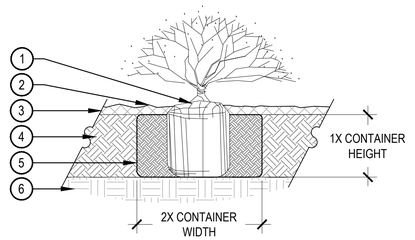
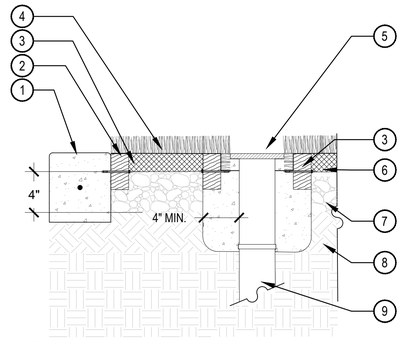


1. SET SHRUB ROOT-BALL 1" HIGHER THAN FINISH GRADE
2. FINISH GRADE (TOP OF MULCH)
3. SPECIFIED MULCH, REFER TO MATERIAL SCHEDULE, SHEET L-XXX
4. TILL IN SPECIFIED SOIL AMENDMENT TO A DEPTH OF 8" IN BED
5. BACKFILLED AMENDED SOIL
6. UNDISTURBED SOIL

NOTE:
1. BROKEN OR CRUMBLING ROOT-BALLS WILL BE REJECTED.
2. CARE SHOULD BE TAKEN NOT TO DAMAGE THE SHRUB OR ROOT-BALL WHEN REMOVING IT FROM ITS CONTAINER.
3. ALL JUNIPERS SHOULD BE PLANTED SO THE TOP OF THE ROOT-BALL OCCURS ABOVE THE FINISH GRADE OF THE MULCH LAYER.
4. DIG PLANT PIT TWICE AS WIDE AND AS HIGH AS THE CONTAINER.
5. PRUNE ALL DEAD OR DAMAGED WOOD PRIOR TO PLANTING, DO NOT PRUNE MORE THAN 20% OF LIMBS.

1 SHRUB PLANTING

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

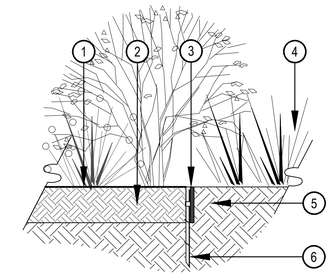


1. THICKENED CONCRETE EDGE OR 6" CONCRETE EDGER, REFER TO DETAILS 2&3/LP-503
2. ½" BELOW TOP OF CONCRETE CURB
3. 2x4 COMPOSITE NAILER SECURED WITH 4" TAPCON SCREWS (OR APPROVED EQUAL) EVERY 12" ON CENTER ALONG EDGE
4. SYNTHETIC TURF, TYPICAL. SECURED TO NAILER BOARD WITH 1" NARROW CROWN STAPLES, INSTALL PER MANUFACTURER'S RECOMMENDATIONS
5. 6" CAST IRON DROP IN GRATE. TOE-SAFE, MEDIUM DUTY, PERF SIDES. REFER: CIVIL
6. SYNTHETIC TURF PAD SYSTEM PER MANUFACTURER'S FALL HEIGHT RECOMMENDATIONS OR 2" CRUSHER FINES
7. CLASS 6 ROAD BASE
8. COMPACTED SUBGRADE
9. CONNECT TO PVC PIPE AND 4X6 EXPANSION FITTING. REFER: CIVIL
10. WATERPROOF MEMBRANE

NOTES:
1. COORDINATE ELEVATION AND DRAINAGE CONNECTION WITH CIVIL AND STRUCTURAL.
2. REFER TO SYNTHETIC TURF MANUFACTURER AND SPECIFICATIONS FOR ALL INSTALLATIONS AND CONNECTIONS.

2 SYNTHETIC TURF W/SURFACE DRAIN

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



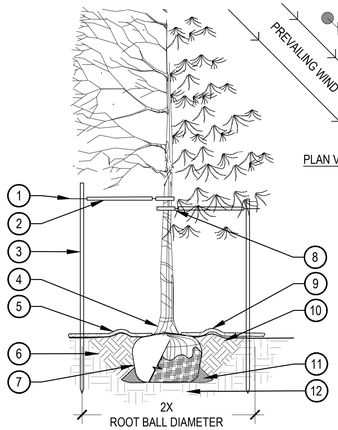
1. FINISH GRADE
2. ADJACENT LANDSCAPE, SEE LANDSCAPE PLANS FOR TYPE
3. BENDA BOARD EDGER REFER TO MATERIAL SCHEDULE, SHEET L-102
4. NATIVE SEED OR ADJACENT LANDSCAPE, REFER TO LANDSCAPE PLANS
5. SUBGRADE
6. EDGER STAKE, INSTALL PER MANUFACTURER SPECIFICATIONS

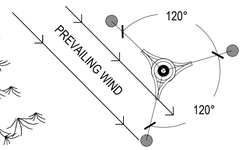
3 BENDA BOARD EDGER

N.T.S.

PRUNING NOTES:
1. ALL PRUNING SHALL COMPLY WITH ANSI A300 STANDARDS.
2. DO NOT HEAVILY PRUNE TREE AT PLANTING. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS AND BROKEN BRANCHES. SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED. HOWEVER, DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.

STAKING NOTES:
1. STAKE TREES PER DIAGRAM. AFTER A MINIMUM OF (3) THREE YEARS CONFIRM TREE IS ESTABLISHED. CHECK FOR ROOTBALL STABILITY. APPLY HAND PRESSURE TO TRUNK OF TREE, WHEN ROOTBALL DOES NOT MOVE, REMOVE STAKING.
   a. 2" CALIPER SIZE AND UNDER DECIDUOUS AND ASPEN TREES - MINIMUM 2 STAKES - ONE ON N.W. SIDE, ONE ON S.W. SIDE (OR PREVAILING WIND SIDE AND 180° FROM THAT SIDE).
   b. EVERGREEN TREES - 3 STAKES PER DIAGRAM.
   c. 3" CALIPER SIZE AND LARGER - 3 STAKES PER DIAGRAM.
2. WIRE OR CABLE SHALL BE MINIMUM 12 GAUGE, TIGHTEN WIRE OR CABLE ONLY ENOUGH TO KEEP FROM SLIPPING. ALLOW FOR SOME TRUNK MOVEMENT. NYLON STRAPS SHALL BE LONG ENOUGH TO ACCOMMODATE 1-1/2" OF GROWTH AND BUFFER ALL BRANCHES FROM WIRE.
3. ADJUST STAKING, STRAPS AND GUY WIRES ANNUALLY.
4. TREATED WOOD POST PREFERRED. METAL T STAKES WITH PLASTIC SAFETY CAPS ACCEPTABLE WITH APPROVAL FROM OWNER.





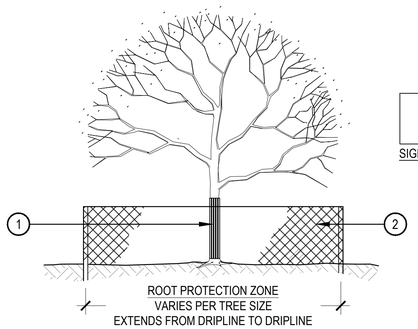
PLAN VIEW - THREE STAKES

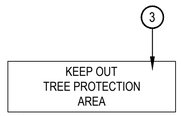
1. GALVANIZED WIRE
2. PLACE MINIMUM 1/2" PVC PIPE AROUND EACH WIRE, EXPOSED WIRE SHALL BE MAXIMUM 2" EACH SIDE
3. INSTALL STAKING PER SPECIFICATIONS
4. PLANT TREE SO THAT FIRST ORDER MAJOR ROOT IS 1"-2" ABOVE FINAL GRADE
5. 2'-0" RADIUS MULCH RING, CENTERED ON TRUNK, 3" DEPTH, ON TOP OF WEED FABRIC, DO NOT PLACE MULCH IN CONTACT WITH TREE TRUNK, FINISHED GRADE REFERENCES TOP OF MULCH
6. 1:1 SLOPE ON SIDES OF PLANTING HOLE
7. REMOVE ALL TWINE, ROPE, BURLAP AND WIRE FROM THE ENTIRE ROOTBALL AND TRUNK
8. GROMMETED NYLON STRAPS
9. 4-6" HIGH WATER SAUCER IN NON-TURF AREAS
10. BACKFILL AROUND ROOTBALL WITH PLANT MIX, PLANT MIX SHALL CONSIST OF EQUAL PARTS TOPSOIL, COMPOST, EXCAVATED SOIL, PLUS MYCORRHIZAL INOCULANT PER SPECIFICATIONS
11. PLACE SOIL AROUND ROOT BALL FIRMLY, DO NOT COMPACT OR TAMP, SETTLE SOIL WITH WATER TO FILL ALL AIR POCKETS
12. PLACE ROOT BALL ON UNDISTURBED SOIL TO PREVENT SETTLEMENT

4 TREE PLANTING DETAIL

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

NOTES:
1. TREES TO BE PROTECTED AND PRESERVED SHALL BE IDENTIFIED ON THE TRUNK WITH WHITE SURVEY TAPE. GROUPING OF MORE THAN ONE TREE MAY OCCUR. FOLLOW EXTERIOR EXTENDS OF DRIP-LINE WHEN GROUPING.
2. TO PREVENT ROOT SMOTHERING, SOIL STOCKPILES, SUPPLIES, EQUIPMENT OR ANY OTHER MATERIAL SHALL NOT BE PLACED OR STORED WITHIN THE DRIP LINE OR WITHIN 15 FEET OF A TREE TRUNK, WHICHEVER IS GREATER.
3. FENCING MATERIAL SHALL BE SET AT THE DRIP LINE OR 15 FEET FROM TREE TRUNK, WHICHEVER IS GREATER, AND MAINTAINED IN AN UPRIGHT POSITION THROUGHOUT THE DURATION OF CONSTRUCTION ACTIVITIES.
4. FENCING MATERIAL SHALL BE BRIGHT, CONTRASTING COLOR, DURABLE, AND A MINIMUM OF FOUR FEET IN HEIGHT.
5. TREE ROOTS SHALL NOT BE CUT UNLESS CUTTING IS UNAVOIDABLE.
6. WHEN ROOT CUTTING IS UNAVOIDABLE, A CLEAN SHARP CUT SHALL BE MADE TO AVOID SHREDDING OR SMASHING. ROOT CUTS SHOULD BE MADE BACK TO A LATERAL ROOT. ROOTS SHALL BE CUT NO MORE THAN 1/3 OF THE RADIUS FROM DRIPLINE TO TRUNK. WHENEVER POSSIBLE, ROOTS SHOULD BE CUT BETWEEN LATE FALL AND BUD OPENING, DURING DORMANCY PERIOD. ROOT STIMULATOR SHALL BE APPLIED TO CUT ROOTS. EXPOSED ROOTS SHALL BE COVERED IMMEDIATELY TO PREVENT DEHYDRATION. ROOTS SHALL BE COVERED WITH SOIL OR BURLAP AND KEPT MOIST.WATERING OF PROTECTED TREES IN WHICH ROOTS WERE CUT SHALL BE PROVIDED BY THE CONTRACTOR.
7. WHEN ROOT CUTTING IS UNAVOIDABLE, A CLEAN SHARP CUT SHALL BE MADE TO AVOID SHREDDING OR SMASHING. ROOT CUTS SHOULD BE MADE BACK TO A LATERAL ROOT. WHENEVER POSSIBLE, ROOTS SHOULD BE CUT BETWEEN LATE FALL AND BUD OPENING, DURING DORMANCY PERIOD. EXPOSED ROOTS SHALL BE COVERED IMMEDIATELY TO PREVENT DEHYDRATION. ROOTS SHALL BE COVERED WITH SOIL OR BURLAP AND KEPT MOIST.WATERING OF PROTECTED TREES IN WHICH ROOTS WERE CUT SHALL BE PROVIDED BY THE CONTRACTOR.
8. ANY GRADE CHANGES (SUCH AS THE REMOVAL OF TOPSOIL OR ADDITION OF FILL MATERIAL) WITHIN THE DRIP LINE SHOULD BE AVOIDED FOR EXISTING TREES TO REMAIN. RETAINING WALLS AND TREE WELLS ARE ACCEPTABLE ONLY WHEN CONSTRUCTED PRIOR TO GRADE CHANGE.





SIGN

1. **TRUNK PROTECTION** - 1" BOARDS NO LESS THAN 5' LONG OR TO REACH FIRST SCAFFOLD BRANCH. WIRE TO HOLD BOARDS IN PLACE, NO NAILS PERMITTED. INCLUDE WRAPPING OF BURLAP UNDER BOARDS.
2. **BRANCH PROTECTION -** PROTECT LOWER BRANCHES OF TREE CANOPY. PROVIDE CONSTRUCTION FENCING OR EQUAL AT DRIPLINE MINIMUM.
3. PLACE SIGNS EVERY 50', PLACE SIGNS WHERE VISIBLE, ATTACH TO FENCING.

5 TREE PROTECTION

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

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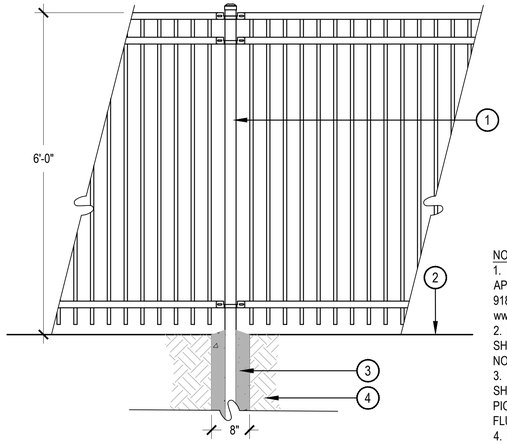
	03/22/2024	EAGLE SITE PLAN APPLICATION 02

SCALE: **VARIES**
ISSUE DATE: **03/11/2024**
PROJECT #: **1250-01-3647**
TITLE: **LANDSCAPE DETAILS**

SHEET #:
LP-501

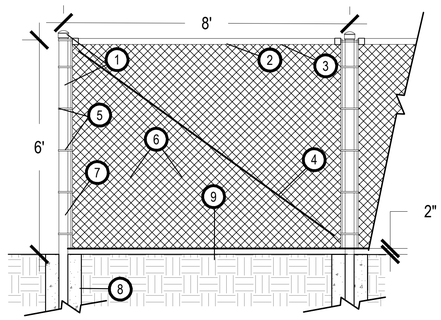


1. FENCE POST - SET IN CONCRETE FOOTER, REFER TO FENCE SPECIFICATIONS FOR FOOTER INFORMATION
2. RE: PLANS FOR FINISH GRADE MATERIAL AT FENCING LOCATIONS
3. CONCRETE FOOTER PER MANUFACTURER, SLOPE CONCRETE AWAY FROM POST FOR POSITIVE DRAINAGE
4. COMPACTED SUBGRADE

NOTES:
1. FENCE SHALL BE BY AMERISTAR FENCE OR APPROVED EQUAL, CONTACT: AARON COPE 918-879-5884 acope@ameristarfence.com www.ameristarfence.com
2. FENCE STYLE FOR POOL ENCLOSURE SHALL BE: MONTAGE PLUS MAJESTIC - 3 RAIL, NO FLUSH BOTTOM
3. FENCE STYLE FOR ALL OTHER LOCATIONS SHALL BE: MONTAGE PLUS (STANDARD 4" PICKET SPACING) MAJESTIC - 3 RAIL, NO FLUSH BOTTOM
4. COLOR: BLACK

1 POOL FENCE

SCALE: 3/4" = 1'-0"



1. 2 3/8" O.D. GATE POST WITH CAP
2. 1 5/8" O.D. TOP RAIL
3. FENCE FABRIC TO HAVE A KNUCKLE AT TOP AND BARB AT BOTTOM
4. TENSION BAR AT ALL END POSTS AND BENDS IN FENCE AS REQUIRED
5. TENSION BANDS @ 14" O.C.
6. 2" SQUARE MESH, 9-GAUGE GALVANIZED FABRIC
7. 3" O.D. POST AT ALL TERMINAL POST LOCATIONS
8. CONCRETE FOOTING, PER MANUFACTURER'S RECOMMENDATION
9. RE: PLANS FOR FINISH GRADE MATERIAL AT FENCING LOCATIONS

NOTES:
1. NORRIS DESIGN HAS PROVIDED THIS DETAIL FOR REFERENCE PURPOSE, THIS DETAIL HAS NOT BEEN ENGINEERED.
2. THIS DETAIL SHOWS DESIGN INTENT OF MATERIALS, FINISHES, AND APPROXIMATE DIMENSIONS ONLY.
3. REINFORCEMENT AND FOOTINGS TO BE PROVIDED BY STRUCTURAL AND/OR BY FENCE CONTRACTOR BASED ON RECOMMENDATIONS IN GEOTECH REPORT, MEETING ALL APPLICABLE CODES.
4. CONTRACTOR TO INSTALL FENCE AND GATES AS RECOMMENDED BY MANUFACTURER
5. NORRIS DESIGN IS NOT RESPONSIBLE FOR STRUCTURAL DESIGN AND CALCULATIONS.
6. CONTRACTOR TO SUBMIT SHOP DRAWINGS TO LANDSCAPE ARCHITECT / STRUCTURAL / CIVIL / CITY FOR APPROVAL.
7. ALL POSTS AND RAILS SHALL BE GALVANIZED STEEL.
8. ALL MESH SHALL BE GALVANIZED STEEL.
9. ALL GATES SHALL BE LOCKING OR HAVE THE CAPABILITY TO BE LOCKED.

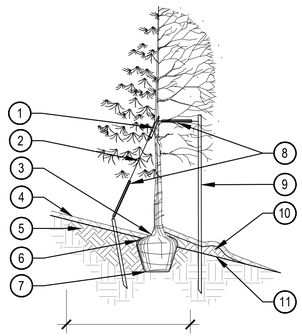
2 6' HEIGHT CHAINLINK FENCE

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

NOTES:
1. EXCAVATE PLANTING HOLES WITH SLOPING SIDES. MAKE EXCAVATIONS AT LEAST THREE TIMES AS WIDE AS THE ROOT BALL DIAMETER AND LESS THAN THE DISTANCE FROM THE TOP MOST ROOT AND THE BOTTOM OF THE ROOT BALL. THE PLANTING AREA SHALL BE LOOSENED AND AERATED AT LEAST THREE TO FIVE TIMES THE DIAMETER OF THE ROOT BALL. REFERENCE TREE PLANTING DETAIL FOR BACKFILL NOTES.
2. TREES SHALL BE PLANTED WITH THE TOP MOST ROOT IN THE ROOT BALL 3" TO 5" HIGHER THAN THE FINISHED LANDSCAPE GRADE. TREES WHERE THE TRUNK FLARE IS NOT VISIBLE SHALL BE REJECTED.
3. FORM SOIL INTO A 3" TO 5" TALL WATERING RING (SAUCER) AROUND PLANTING AREA. THIS IS NOT NECESSARY IN IRRIGATED TURF AREAS. APPLY 3" TO 4" DEPTH OF SPECIFIED MULCH INSIDE WATERING RING.

PRUNING NOTES:
1. ALL PRUNING SHALL COMPLY WITH ANSI A300 STANDARDS.
2. DO NOT HEAVILY PRUNE TREE AT PLANTING. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS AND BROKEN BRANCHES. SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED. HOWEVER, DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.

STAKING NOTES:
1. STAKE TREES PER DIAGRAM. AFTER A MINIMUM OF (3) THREE YEARS CONFIRM TREE IS ESTABLISHED. CHECK FOR ROOTBALL STABILITY. APPLY HAND PRESSURE TO TRUNK OF TREE, WHEN ROOTBALL DOES NOT MOVE, REMOVE STAKING.
   a. 2" CALIPER SIZE AND UNDER DECIDUOUS AND ASPEN TREES - MINIMUM 2 STAKES - ONE ON N.W. SIDE, ONE ON S.W. SIDE (OR PREVAILING WIND SIDE AND 180° FROM THAT SIDE).
   b. EVERGREEN TREES - 3 STAKES PER DIAGRAM.
   c. 3" CALIPER SIZE AND LARGER - 3 STAKES PER DIAGRAM.
2. WIRE OR CABLE SHALL BE MINIMUM 12 GAUGE, TIGHTEN WIRE OR CABLE ONLY ENOUGH TO KEEP FROM SLIPPING. ALLOW FOR SOME TRUNK MOVEMENT. NYLON STRAPS SHALL BE LONG ENOUGH TO ACCOMMODATE 1-1/2" OF GROWTH AND BUFFER ALL BRANCHES FROM WIRE.
3. ADJUST STAKING, STRAPS AND GUY WIRES ANNUALLY.
4. USE GUY ASSEMBLIES FOR EVERGREENS AND TREES OVER 3" CALIPER. ALL WIRE TO BE MINIMUM 12 GAUGE GALVANIZED.

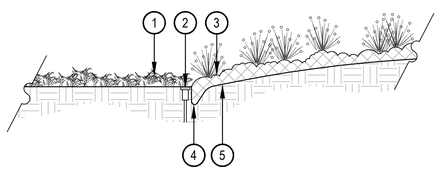


SLOPE SIDED PLANTING AREA SHALL BE LOOSENED AND AERATED MINIMUM 3 TIMES THE DIAMETER OF ROOT BALL

1. GROMMETED NYLON STRAP
2. GALVANIZED WIRE
3. TOP MOST ROOT IN ROOTBALL: 1"-2" ABOVE EXISTING GRADE, UPHILL SIDE
4. 2-4" OF ORGANIC MULCH APPLIED OVER PLANTING AREA AND AWAY FROM THE TRUNK, REFER TO MATERIAL SCHEDULE, SHEET L-XXX, FINISHED GRADE REFERENCES TOP OF MULCH
5. BACKFILL WITH PLANT MIX, PLANT MIX SHALL CONSIST OF EQUAL PARTS TOPSOIL, COMPOST, EXCAVATED SOIL, PLUS MYCORRHIZAL INOCULANT PER SPECIFICATIONS, WATER THOROUGHLY WHEN BACKFILLING
6. REMOVE ALL TWINE, ROPE, BURLAP AND WIRE FROM ENTIRE ROOTBALL AND TRUNK
7. PLACE ROOTBALL ON UNDISTURBED SOIL TO PREVENT SETTLEMENT, IF SOIL HAS BEEN IMPORTED, PROVIDE MODERATE FOOT PACKING OF SOIL DIRECTLY UNDER LOCATION OF ROOTBALL
8. 24" X 3/4" P.V.C. MARKERS (TYPICAL) OVER WIRES
9. TREATED WOOD POST, OR METAL T STAKE WITH CAP, WITH GROMMETED NYLON STRAPS, USE 2 GUY WIRES
10. UNAMENDED TOPSOIL ADDED TO EXISTING GRADE ON DOWN HILL SIDE, REFER TO SPECIFICATIONS
11. EXISTING GRADE

3 TREE PLANTING ON SLOPE

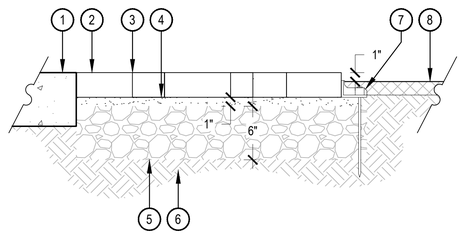
SCALE: 1/4" = 1'-0"



1. TURFGRASS OR DYLAND SEED
2. IRRIGATION HEADS SHOULD BE LOCATED ADJACENT TO MULCH BEDS, OFFSET HEAD INTO GRASS AREA TO ENSURE STABLE SUPPORT
3. PLANTING BED
4. VERTICAL SPADE CUT EDGE FILLED WITH SPECIFIED MULCH, TAPER EDGE OF BED SO MULCH IS DEEPER AGAINST SPADED EDGE
5. SPECIFIED DEPTH OF MULCH, TYPICALLY WOOD MULCH 3"-4" DEEP

4 SPADE CUT EDGE

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



1. ADJACENT PAVING OR EDGER, REFER TO PLANS
2. WINDERMERE UNILOCK PAVERS, REFER TO MATERIAL SCHEDULE, SHEET LP-002
3. STANDARD JOINT SAND OR POLYMERIC SAND
4. 1" SAND SETTING BED
5. 6" DEPTH OF COMPACTED ROAD BASE, COMPACT TO 95% STANDARD PROCTOR DENSITY
6. SUBGRADE COMPACTED TO 95% STANDARD PROCTOR DENSITY
7. SEK SUREBOND SNAP EDGE PAVER EDGING WITH 10" METAL STAKE, OR APPROVED EQUAL
8. ADJACENT LANDSCAPE, REFER TO PLANS

NOTES:
1. PROVIDE SMOOTH TRANSITION BETWEEN PLANK PAVING AND ADJACENT SURFACES.
2. PROVIDE POSITIVE DRAINAGE FROM ALL PAVING SURFACES.

5 FLAGSTONE PAVERS

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

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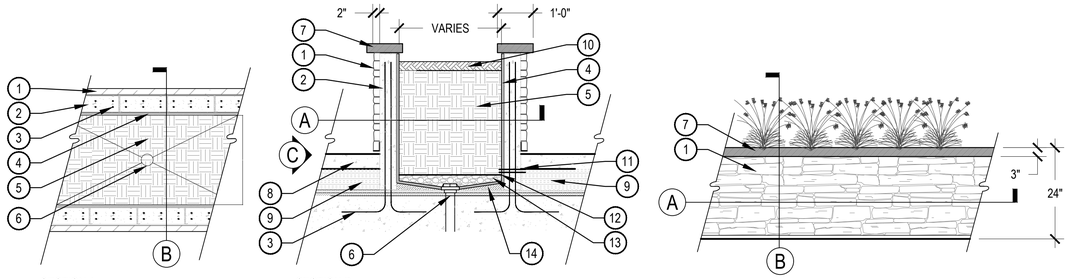
Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

NO.	DATE:	TITLE/PURPOSE:
	01/22/2024	100% DDs
	02/16/2024	EAGLE SITE PLAN APPLICATION
	03/11/2024	50% CDs
	03/22/2024	EAGLE SITE PLAN APPLICATION 02

SCALE: VARIES
ISSUE DATE: 03/11/2024
PROJECT #: 1250-01-3647
TITLE: LANDSCAPE DETAILS

SHEET #:
LP-502



SECTION A

SECTION B

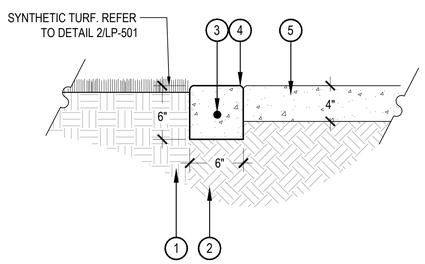
ELEVATION C

NOTES:
1. THIS DETAIL IS INTENDED TO DEMONSTRATE THE PLANTER WALL ASSEMBLY AND MATERIALS ONLY.
2. NORRIS DESIGN IS NOT RESPONSIBLE FOR CONNECTIONS TO THE UNDERDRAIN SECTION.
3. REFER TO STRUCTURAL AND CIVIL SECTIONS AND DETAILS. ASSEMBLY PICTURED FOR REFERENCE ONLY.
4. ALL PLANTERS TO BE IRRIGATED AND DRAINED. REFER TO CIVIL PLANS AND SPECIFICATIONS FOR STRUCTURAL, ARCHITECTURAL, MEP COORDINATION. REFER TO IRRIGATION FOR PLANS FOR IRRIGATION COORDINATION.
5. USE GEO-FOAM AT BASE OF PLANTER TO SLOPE WATERPROOFING AND ENSURE PLANTER DRAINAGE.

1. THIN STONE VENEER, REFER TO LANDSCAPE MATERIALS SCHEDULE, M-08, LP-003
2. 6" WIDTH CAST IN PLACE CONCRETE WALL, REFER TO STRUCTURAL
3. REBAR REINFORCEMENTS AND SLAB TIES WITH WATERPROOFED PENETRATIONS, REFER TO STRUCTURAL
4. PLANTER INTERIOR WATERPROOFING MEMBRANE , REFER TO CIVIL PLANS AND SPECIFICATIONS.
5. OVER STRUCTURE SOIL, REFER TO LANDSCAPE MATERIALS SCHEDULE, M-06, LP-003
6. PLANTER DRAINS SEE DRAIN PLAN FOR LOCATIONS REFERENCE PLUMBING AND CIVIL FOR SPECIFICATIONS AND DETAILS
7. STONE CAP, REFER TO LANDSCAPE MATERIALS SCHEDULE, M-09, LP-003
8. ADJACENT CONCRETE, REFER TO CIVIL FOR ASSEMBLY
9. GEO-MEMBRANE, LINER CONNECTIONS AND CONCRETE DETAIL, REFER TO CIVIL
10. LANDSCAPE MULCH, REFER TO LANDSCAPE MATERIALS SCHEDULE, M-02 , LP-003
11. CONDUIT TO BE INSTALLED FOR IRRIGATION, REFER TO IRRIGATION PLANS
12. MIRIFI FILTER FABRIC BETWEEN POTTING SOIL AND DRAINAGE AGGREGATE
13. MINIMUM 2" DEPTH 3/4"-1.5" CLEAN, ROUNDED AGGREGATE BASE TO ENSURE DRAINAGE OF PLANTER
14. INSTALL GEO-FOAM, OR SLOPE BASE OF PLANTER TO DIRECT DRAINAGE TOWARDS PLANTER DRAINS, REFER TO CIVIL FOR WATERPROOFING SPECIFICATION, INSTALL WATERPROOFING PER MANUFACTURER SPECIFICATIONS

1 CONCRETE PLANTER WALL - OVER STRUCTURE

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

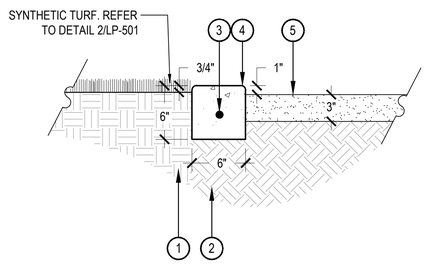


1. UNDISTURBED GRADE
2. SUBGRADE COMPACTED TO 95% STANDARD PROCTOR DENSITY
3. #4 REBAR CONTINUOUS
4. THICKENED CONCRETE EDGE FLUSH WITH CONCRETE SURFACE, 1/2" RADIUS ON ALL EXPOSED EDGES
5. CONCRETE SURFACE, REFER TO CIVIL

NOTES:
1. PROVIDE CONTROL JOINTS AT 6' ON CENTER AND EXPANSION JOINTS AT 24" ON CENTER.
2. MINIMUM BURY DEPTH ON ALL REBAR SHALL BE 2-1/2", UNLESS OTHERWISE NOTED.
3. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI AT 28 DAYS.

2 THICKENED CONCRETE EDGE

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



1. UNDISTURBED GRADE
2. SUBGRADE COMPACTED TO 95% STANDARD PROCTOR DENSITY
3. #4 REBAR CONTINUOUS
4. CONCRETE CURB WITH LIGHT BROOM FINISH, 1/2" RADIUS ON ALL EXPOSED EDGES
5. ADJACENT MATERIAL VARIES, REFER PLANS

NOTES:
1. PROVIDE CONTROL JOINTS AT 6' ON CENTER AND EXPANSION JOINTS AT 24" ON CENTER.
2. MINIMUM BURY DEPTH ON ALL REBAR SHALL BE 2-1/2", UNLESS OTHERWISE NOTED.
3. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI AT 28 DAYS.

3 CONCRETE EDGER

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

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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
	03/11/2024	50% CDs
	03/22/2024	EAGLE SITE PLAN APPLICATION 02

SCALE: **VARIES**
ISSUE DATE: **03/11/2024**
PROJECT #: **1250-01-3647**
TITLE: **LANDSCAPE DETAILS**

SHEET #:
LP-503

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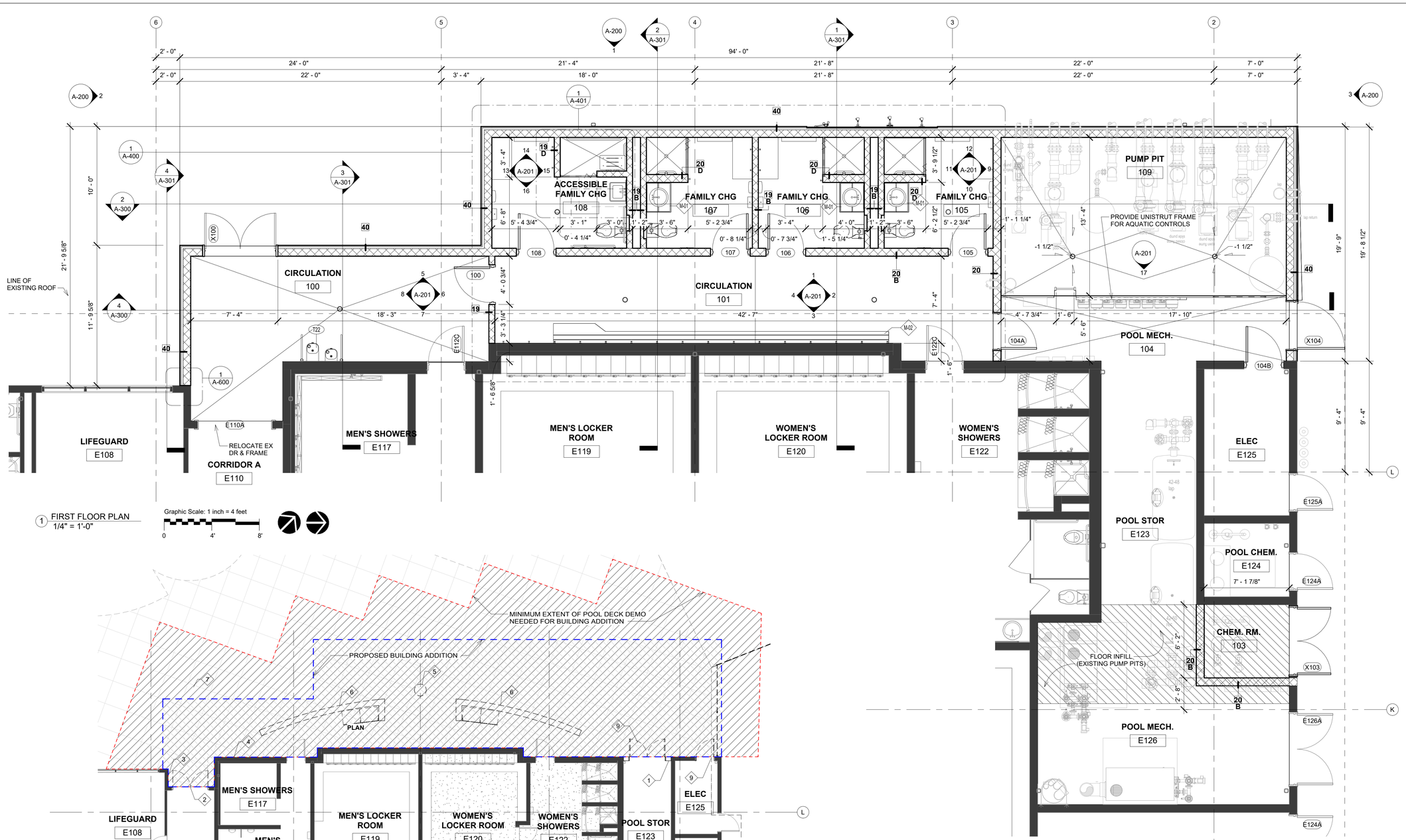

1 FIRST FLOOR PLAN
1/4" = 1'-0"

Graphic Scale: 1 inch = 4 feet

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

Graphic Scale: 1 inch = 8 feet

DEMOLITION KEYNOTES

1. REMOVE EXISTING WALL,PATCH AND REPAIR AS NEEDED TO MATCH EXISTING FINISHES.
2. RELOCATE EXIST DOOR & FRAME.
3. REMOVE EX FIBER CEM SIDING PATCH AND REPAIR AS NEEDED TO RECEIVE NEW FINISHES.
4. REMOVE EX METAL PANELS PATCH AND REPAIR AS NEEDED TO RECEIVE NEW FINISHES.
5. REMOVE EX WOOD POST.
6. REMOVE EX RADIUS WALL, FOUNDATION & FOOTINGS.
7. REMOVE EX CONC POOL DECK.
8. PARTIAL DEMO OF WALL TO PROVIDE DOOR OPENING TO RECEIVE NEW DOOR AND LINTEL AND LINTEL FOR NEW DOOR, PATCH AND REPAIR DOOR AND FLOOR AS NEEDED TO MATCH EXISTING FINISH.
9. REMOVE EXISTIN DOOR.
10. REMOVE EXISTING WALL,PATCH AND REPAIR AS NEEDED TO RECEIVE NEW FINISHES.

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Mountain Recreation Eagle Pool

1700 Bull Pasture Rd, Eagle, CO 81631

NO.	DATE:	TITLE/PURPOSE:
1	3/22/2024	SITE PLAN 02

SCALE: As indicated
ISSUE DATE: 03/22/2024
PROJECT #: 23079
TITLE: FIRST FLOOR PLAN

SHEET #:
A-101

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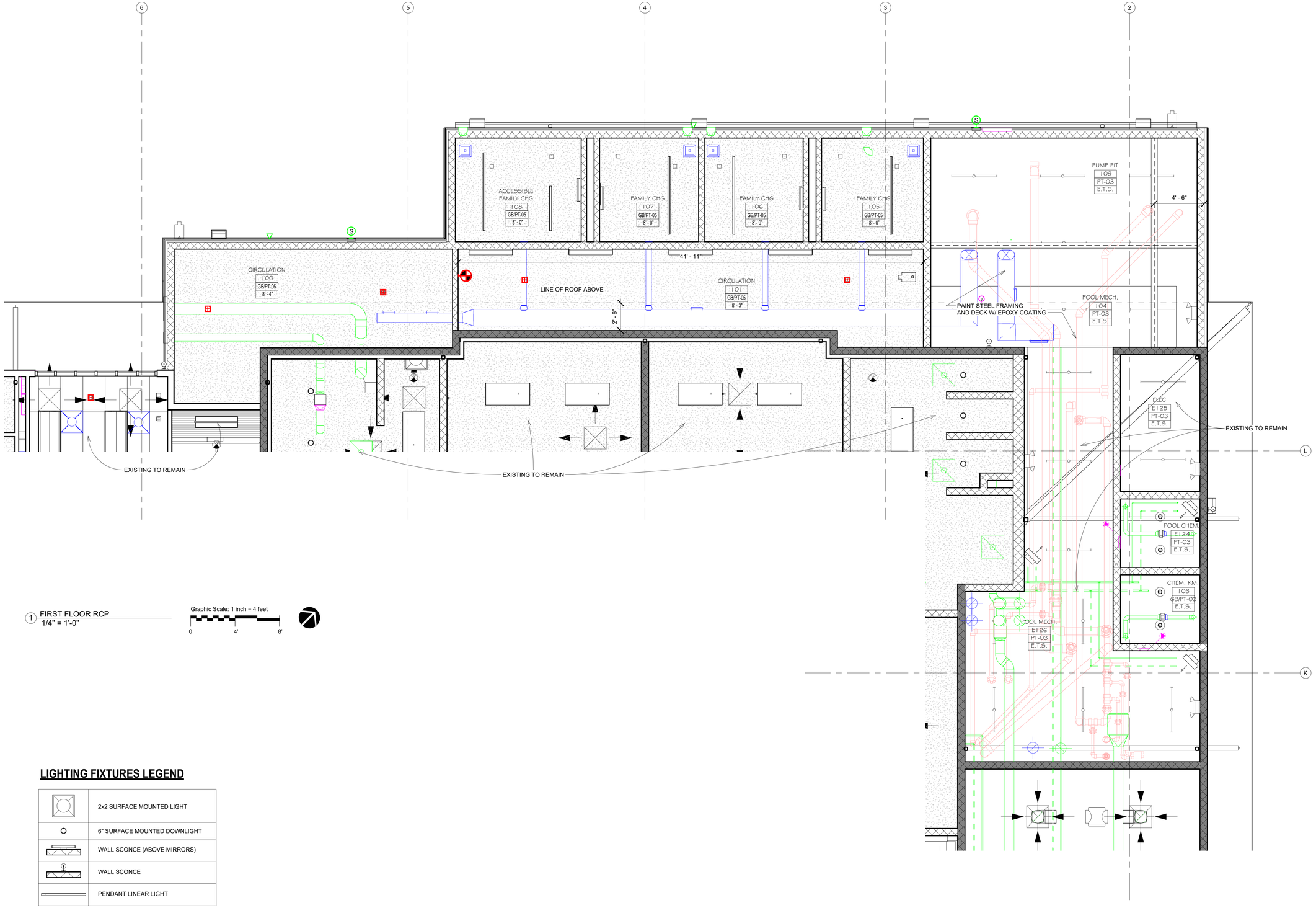

1 FIRST FLOOR RCP
1/4" = 1'-0"

Graphic Scale: 1 inch = 4 feet
0 4' 8'

LIGHTING FIXTURES LEGEND

	2x2 SURFACE MOUNTED LIGHT
	6" SURFACE MOUNTED DOWNLIGHT
	WALL SCONCE (ABOVE MIRRORS)
	WALL SCONCE
	PENDANT LINEAR LIGHT

REFER TO ELECTRICAL DRAWINGS FOR LIGHTING DESIGN

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Mountain Recreation Eagle Pool

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NO.	DATE:	TITLE/PURPOSE:
1	3/22/2024	SITE PLAN 02

SCALE: 1/4" = 1'-0"
ISSUE DATE: 03/22/2024
PROJECT #: 23079
TITLE: FIRST FLOOR CEILING PLAN

SHEET #:
A-102

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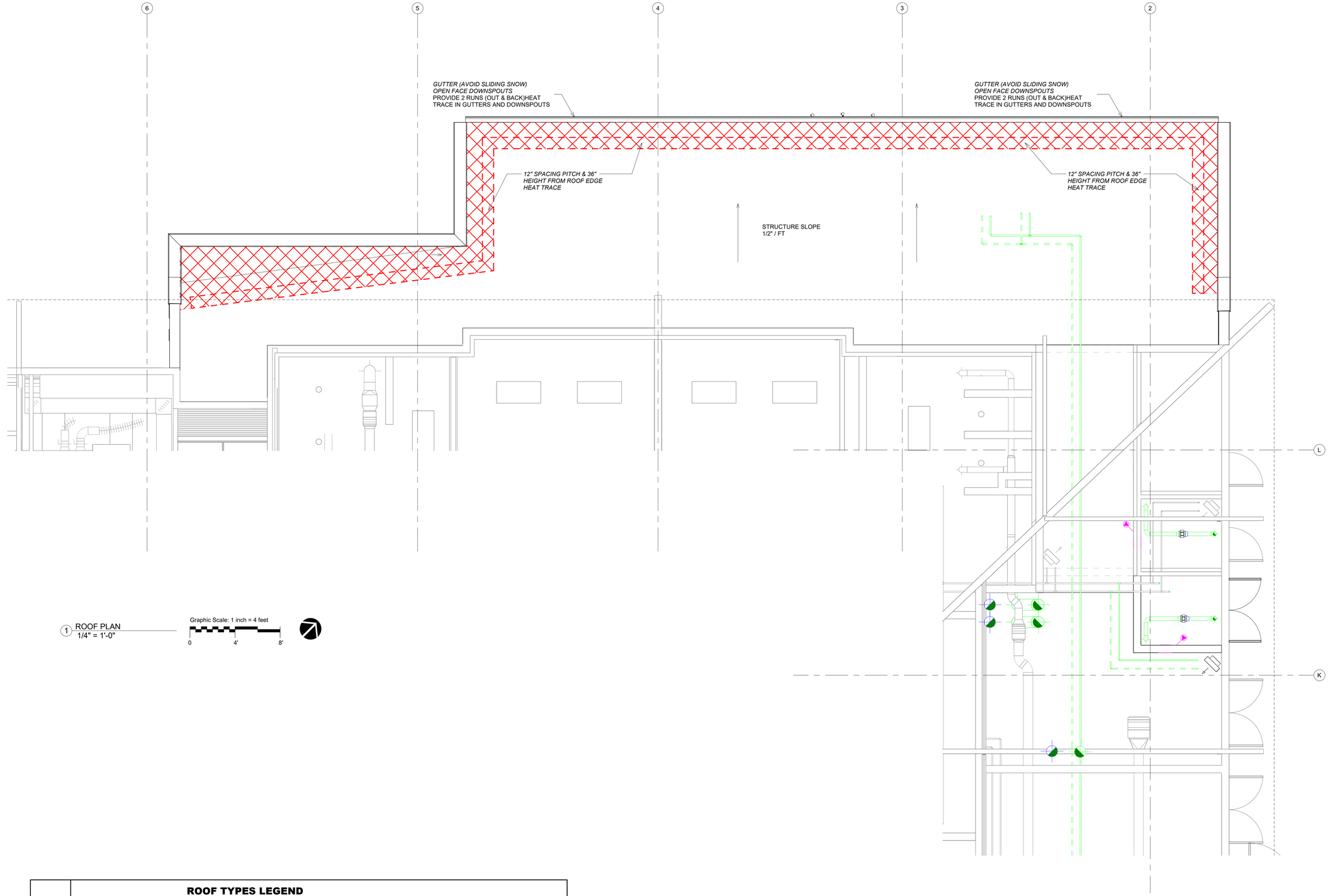

1 ROOF PLAN
1/4" = 1'-0"

Graphic Scale: 1 inch = 4 feet
0 4' 8'

	ROOF TYPES LEGEND		
RF-1			90 MIL REINFORCED PVC ROOF MEMBRANE 1/2" ROOF PROTECTION BOARD 6" RIGID INSUL (STAGGER SEAMS) LTTR=30 min 10 MIL VAPOR BARRIER 1/2" ROOF UNDERLAYMENT

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NO.	DATE:	TITLE/PURPOSE:
1	3/22/2024	SITE PLAN 02

SCALE: As indicated
ISSUE DATE: 03/22/2024
PROJECT #: 23079
TITLE: ROOF PLAN

SHEET #:
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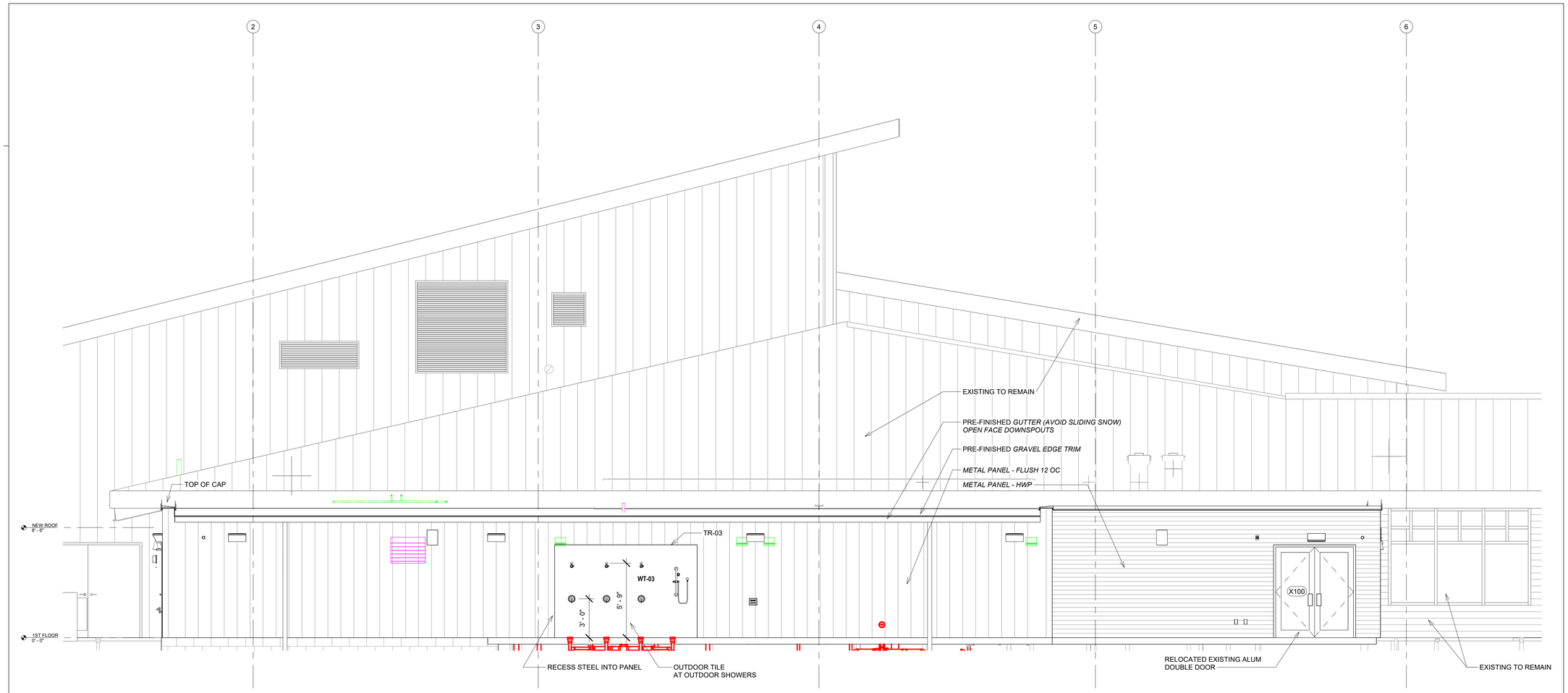
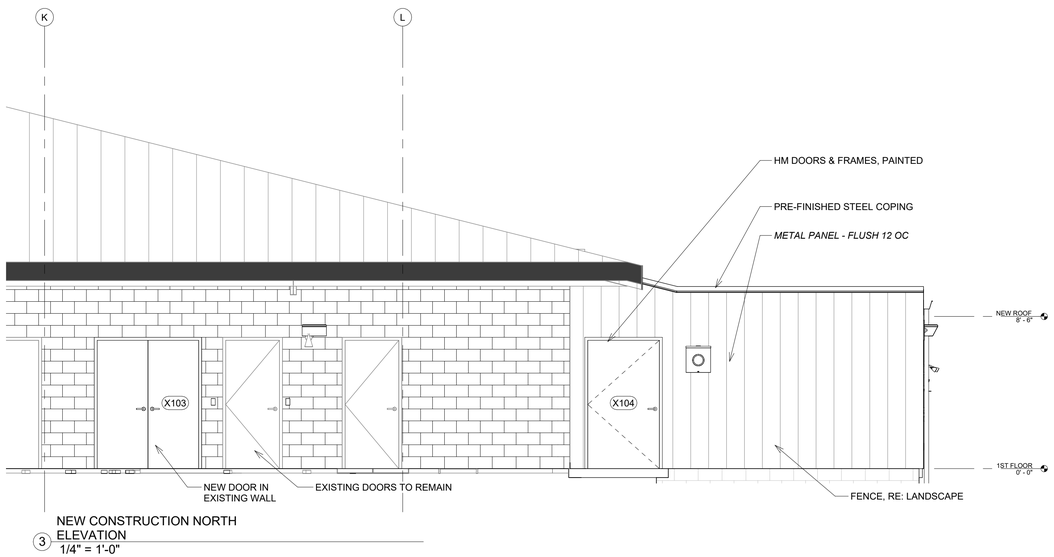
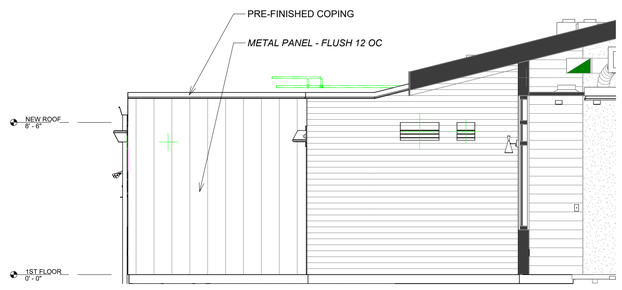


1 NEW CONSTRUCTION WEST ELEVATION
1/4" = 1'-0"



3 NEW CONSTRUCTION NORTH
ELEVATION
1/4" = 1'-0"



2 NEW CONSTRUCTION SOUTH
ELEVATION
1/4" = 1'-0"

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NO.	DATE:	TITLE/PURPOSE:
1	3/22/2024	SITE PLAN 02

SCALE: 1/4" = 1'-0"
ISSUE DATE: 03/22/2024
PROJECT #: 23079
TITLE: EXTERIOR ELEVATIONS

SHEET #:
A-200

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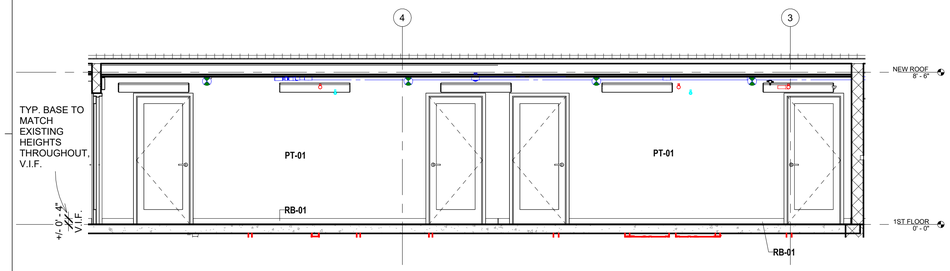

1 CIRCULATION-101 NORTH ELEV.
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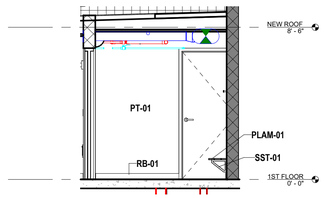

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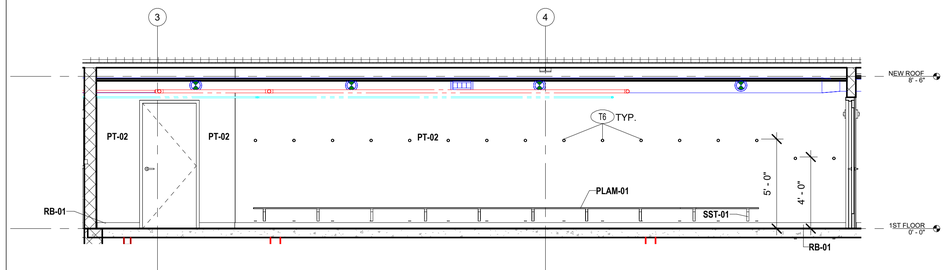

3 CIRCULATION-101 SOUTH ELEV.
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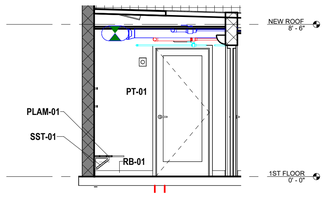

4 CIRCULATION-101 WEST ELEV.
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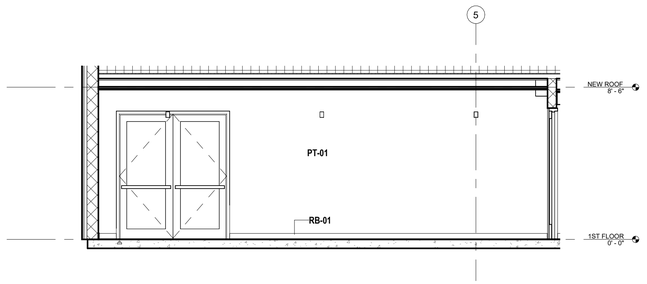
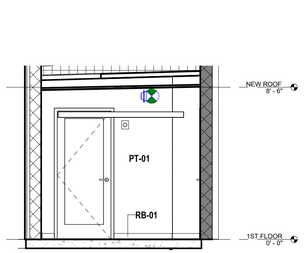
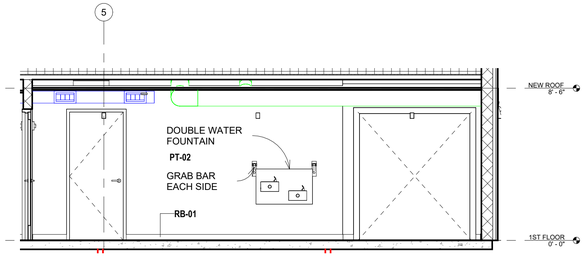


5 CIRCULATION-100 NORTH ELEV.
1/4" = 1'-0"



6 CIRCULATION-100 EAST ELEV.
1/4" = 1'-0"



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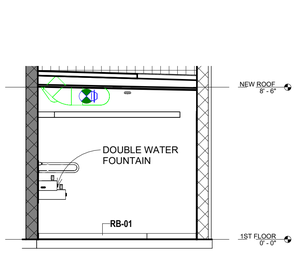
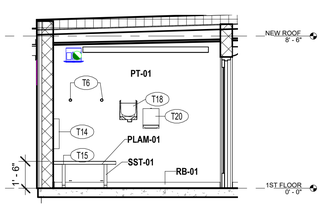
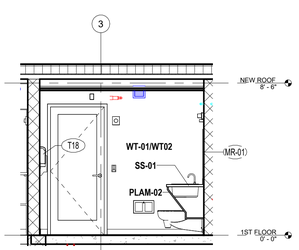
1/4" = 1'-0"



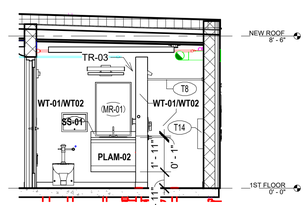
8 CIRCULATION-100 WEST ELEV.
1/4" = 1'-0"



9 TYP. FAMILY CHG. EAST ELEV.
1/4" = 1'-0"



10 TYP. FAMILY CHG. SOUTH ELEV.
1/4" = 1'-0"



11 TYP. FAMILY CHG. WEST ELEV.
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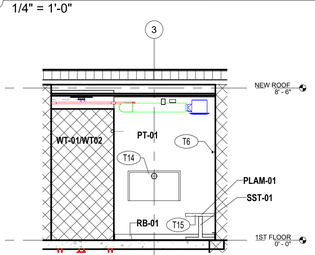
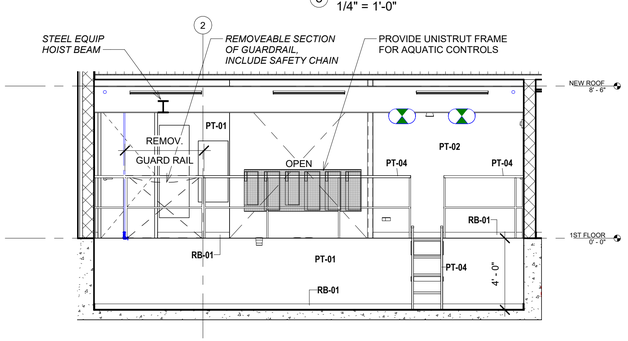
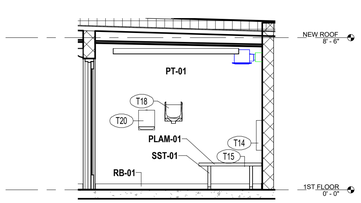


12 TYP. FAMILY CHG. NORTH ELEV.
1/4" = 1'-0"



17 PUMP PIT-109 SOUTH ELEV.
1/4" = 1'-0"



13 ADA FAMILY CH.-108 WEST ELEV.
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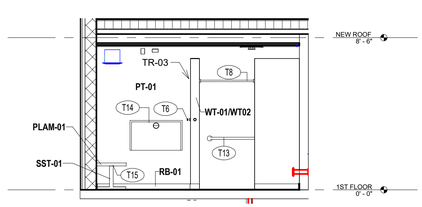

14 ADA FAMILY CH.-108 NORTH ELEV.
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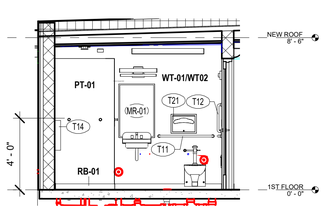
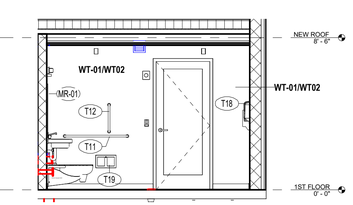


15 ADA FAMILY CH.-108 EAST ELEV.
1/4" = 1'-0"



16 ADA FAMILY CH.-108 SOUTH ELEV.
1/4" = 1'-0"

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Mountain Recreation Eagle Pool

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NO.	DATE:	TITLE/PURPOSE:
1	3/22/2024	SITE PLAN 02

SCALE: 1/4" = 1'-0"
ISSUE DATE: 03/22/2024
PROJECT #: 23079
TITLE: INTERIOR ELEVATIONS

SHEET #:
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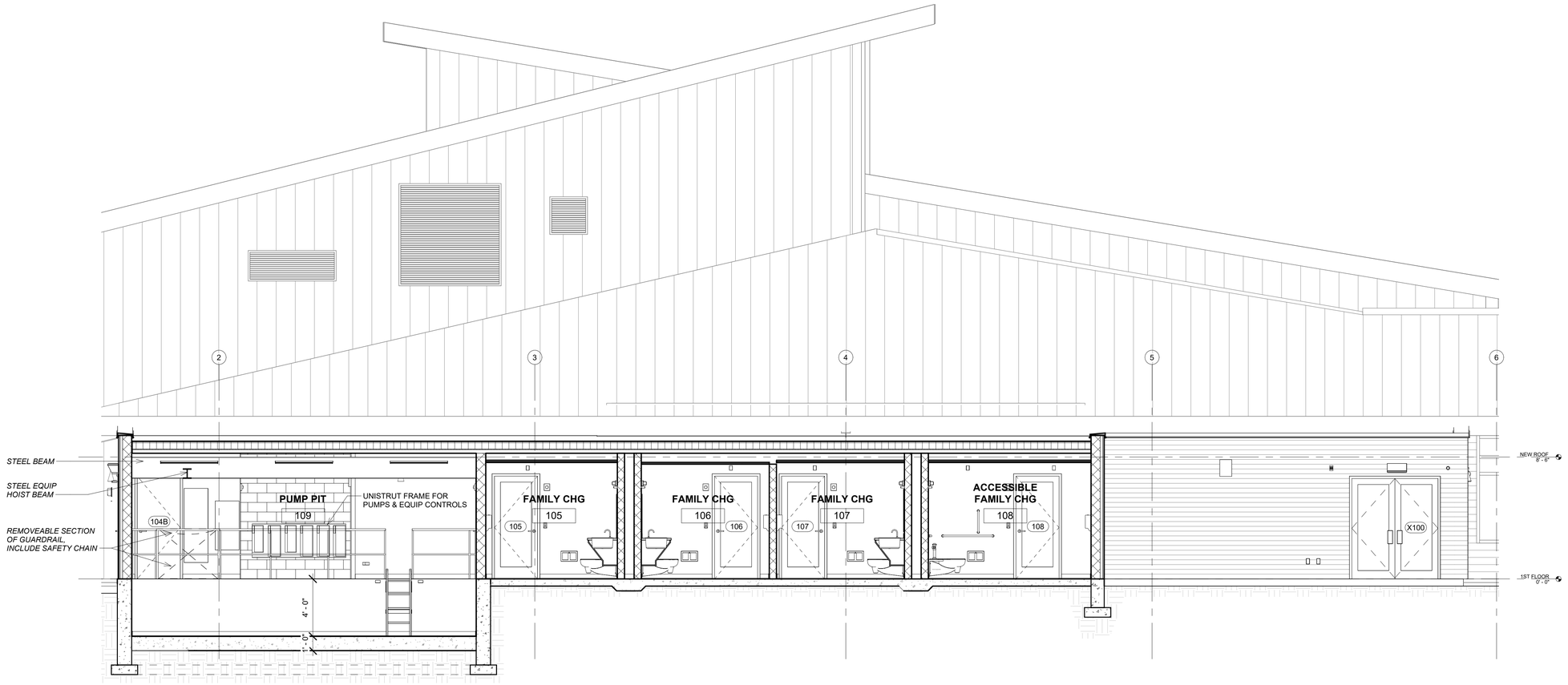
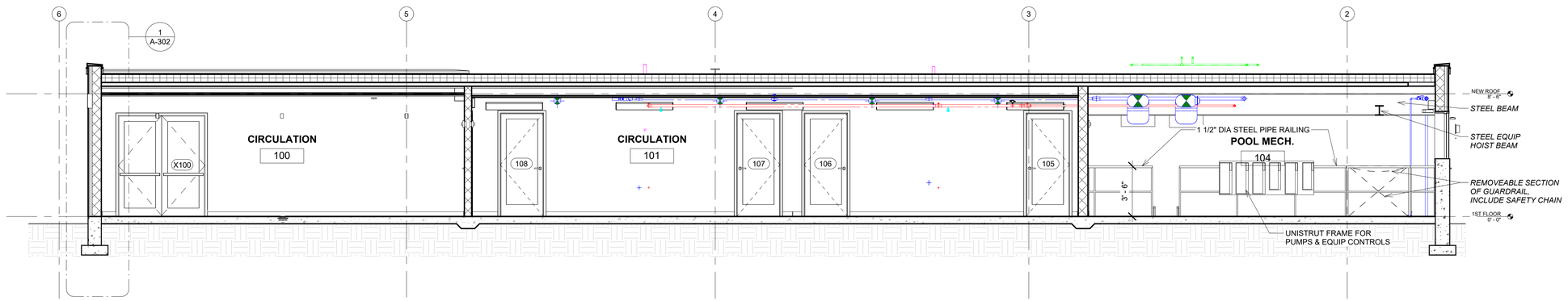


2 BUILDING SECTION 2
1/4" = 1'-0"



4 BUILDING SECTION 4
1/4" = 1'-0"

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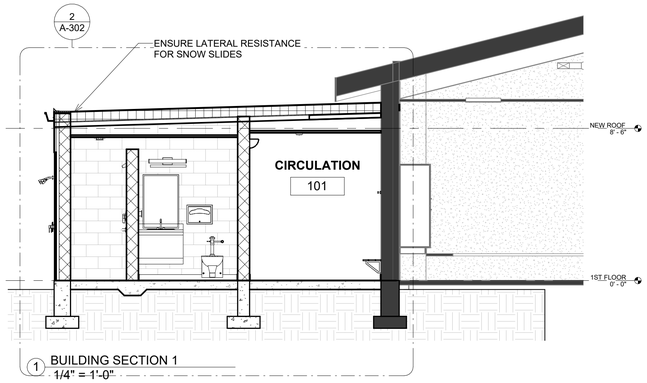
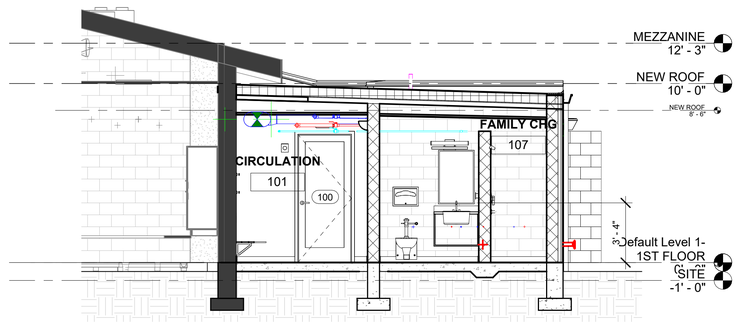
NO.	DATE:	TITLE/PURPOSE:
1	3/22/2024	SITE PLAN 02

SCALE: 1/4" = 1'-0"
ISSUE DATE: 03/22/2024
PROJECT #: 23079
TITLE: BUILDING SECTIONS

SHEET #:
A-300

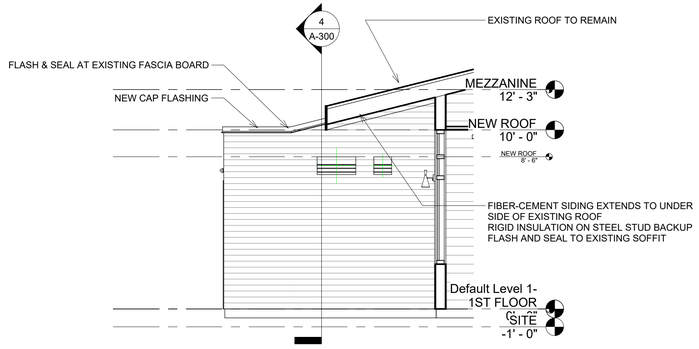


1 BUILDING SECTION 1
1/4" = 1'-0"



2 BUILDING SECTION 3
1/4" = 1'-0"

3 BUILDING SECTION 5
1/4" = 1'-0"



4 BUILDING SECTION-6
1/4" = 1'-0"

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NO.	DATE:	TITLE/PURPOSE:
1	3/22/2024	SITE PLAN 02

SCALE: 1/4" = 1'-0"
ISSUE DATE: 03/22/2024
PROJECT #: 23079
TITLE: BUILDING SECTIONS 2

SHEET #:
A-301

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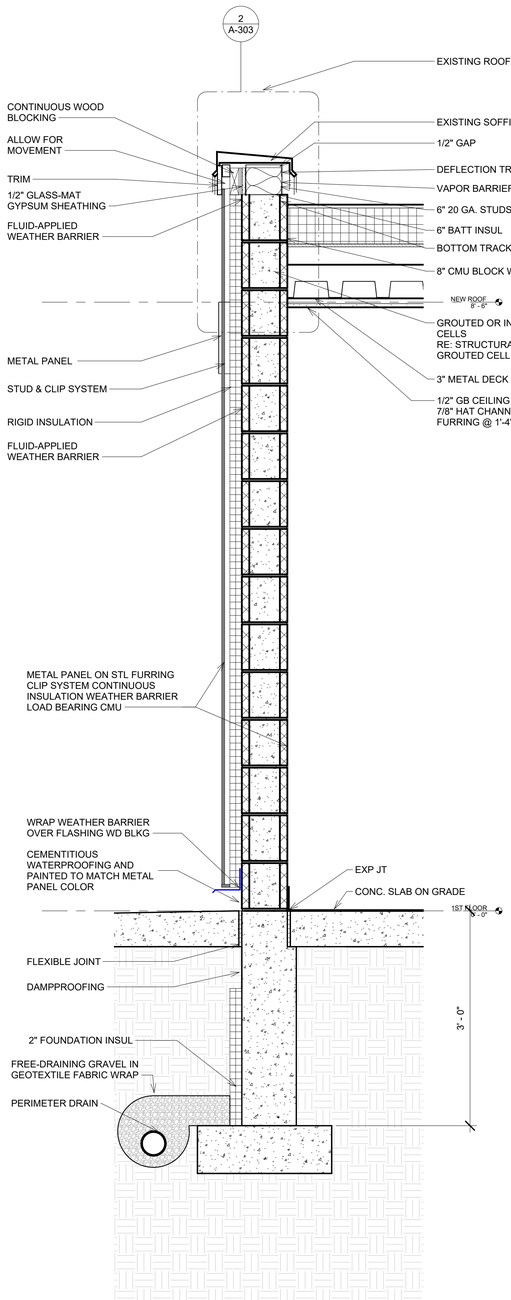
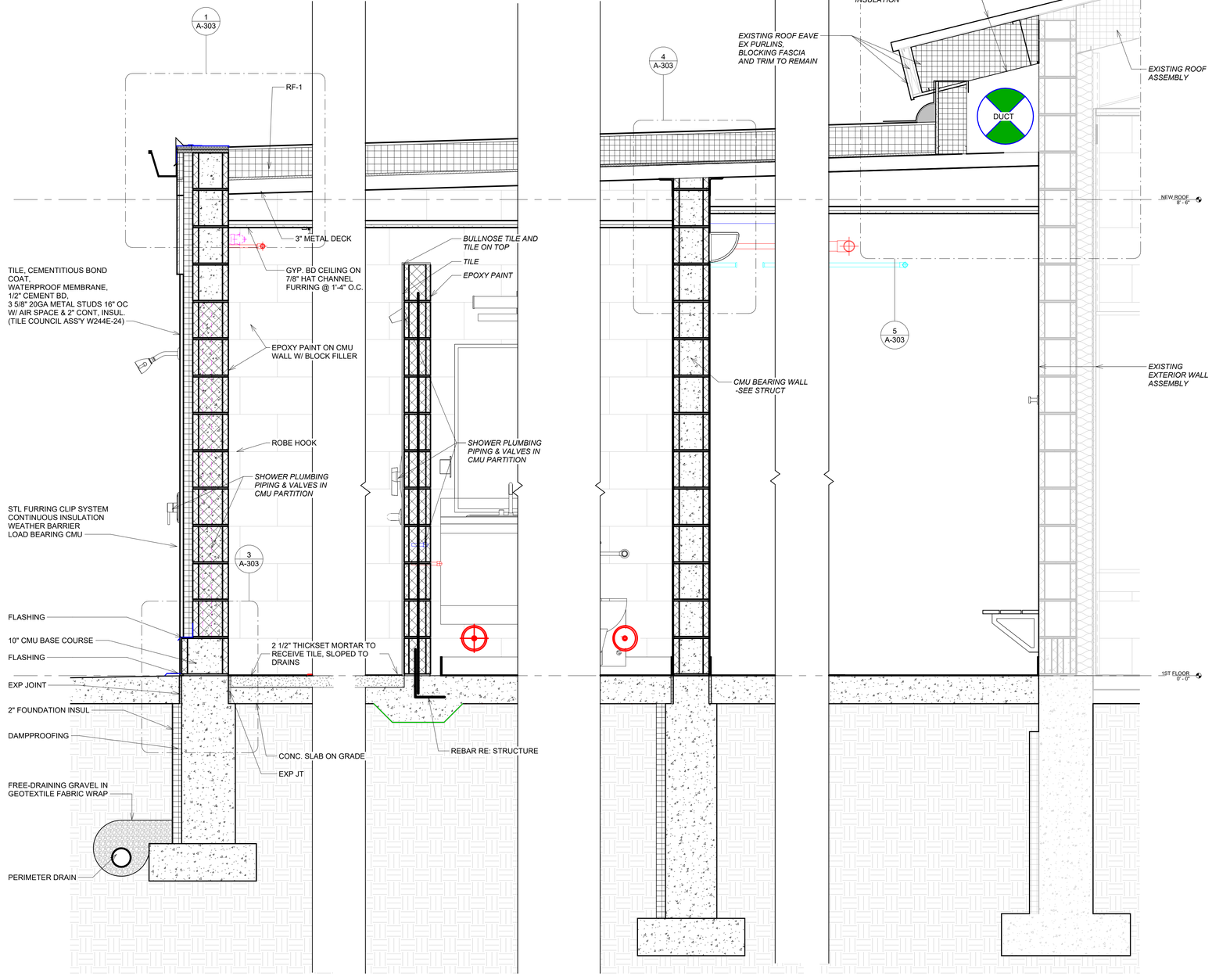


1 WALL SECTION-01
1" = 1'-0"



2 WALL SECTION-2
1" = 1'-0"

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NO.	DATE:	TITLE/PURPOSE:
1	3/22/2024	SITE PLAN 02

SCALE: 1" = 1'-0"
ISSUE DATE: 03/22/2024
PROJECT #: 23079
TITLE: WALL SECTIONS

SHEET #:
A-302

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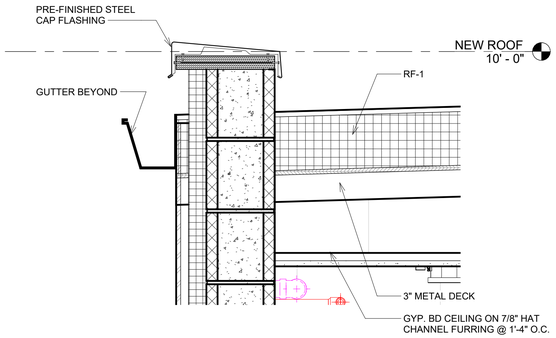
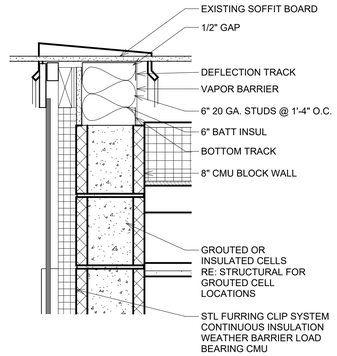
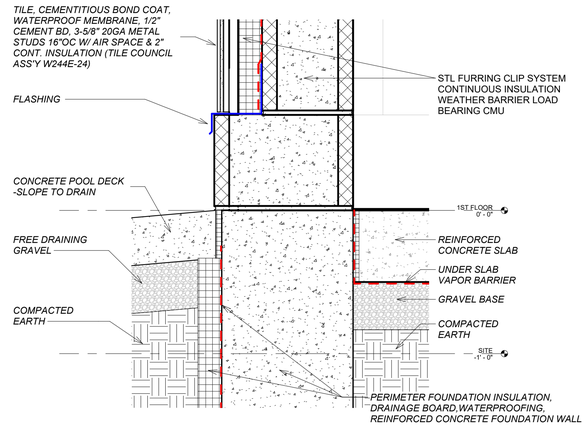


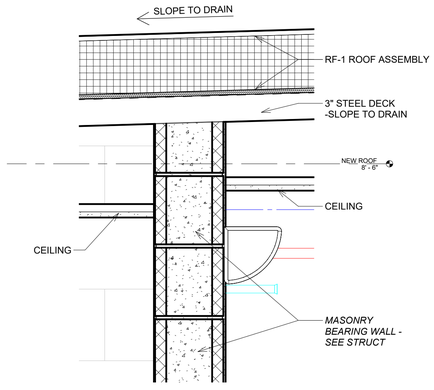
1 WALL SECTION-01 - Callout 1
1 1/2" = 1'-0"



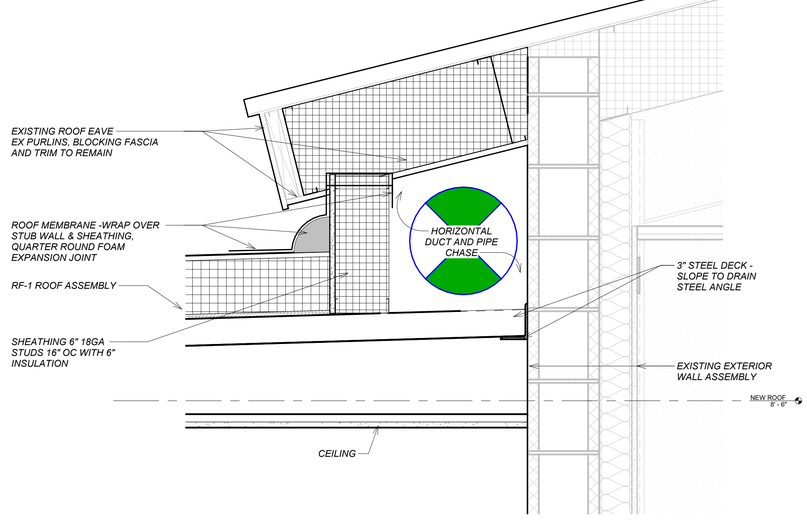
2 WALL SECTION-02 - Callout 2
1 1/2" = 1'-0"



3 WALL SECTION-2 - Callout 3
1 : 6



4 WALL SECTION-2 - Callout 4
1 1/2" = 1'-0"



5 WALL SECTION-01 - Callout 5
1 1/2" = 1'-0"

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NO.	DATE:	TITLE/PURPOSE:
1	3/22/2024	SITE PLAN 02

SCALE: **As indicated**
ISSUE DATE: **03/22/2024**
PROJECT #: **23079**
TITLE: **DETAILS**

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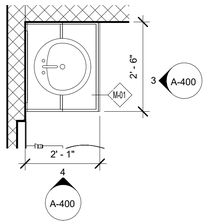
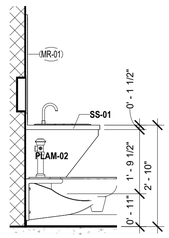
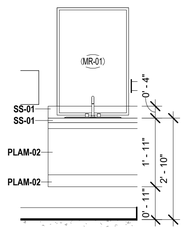


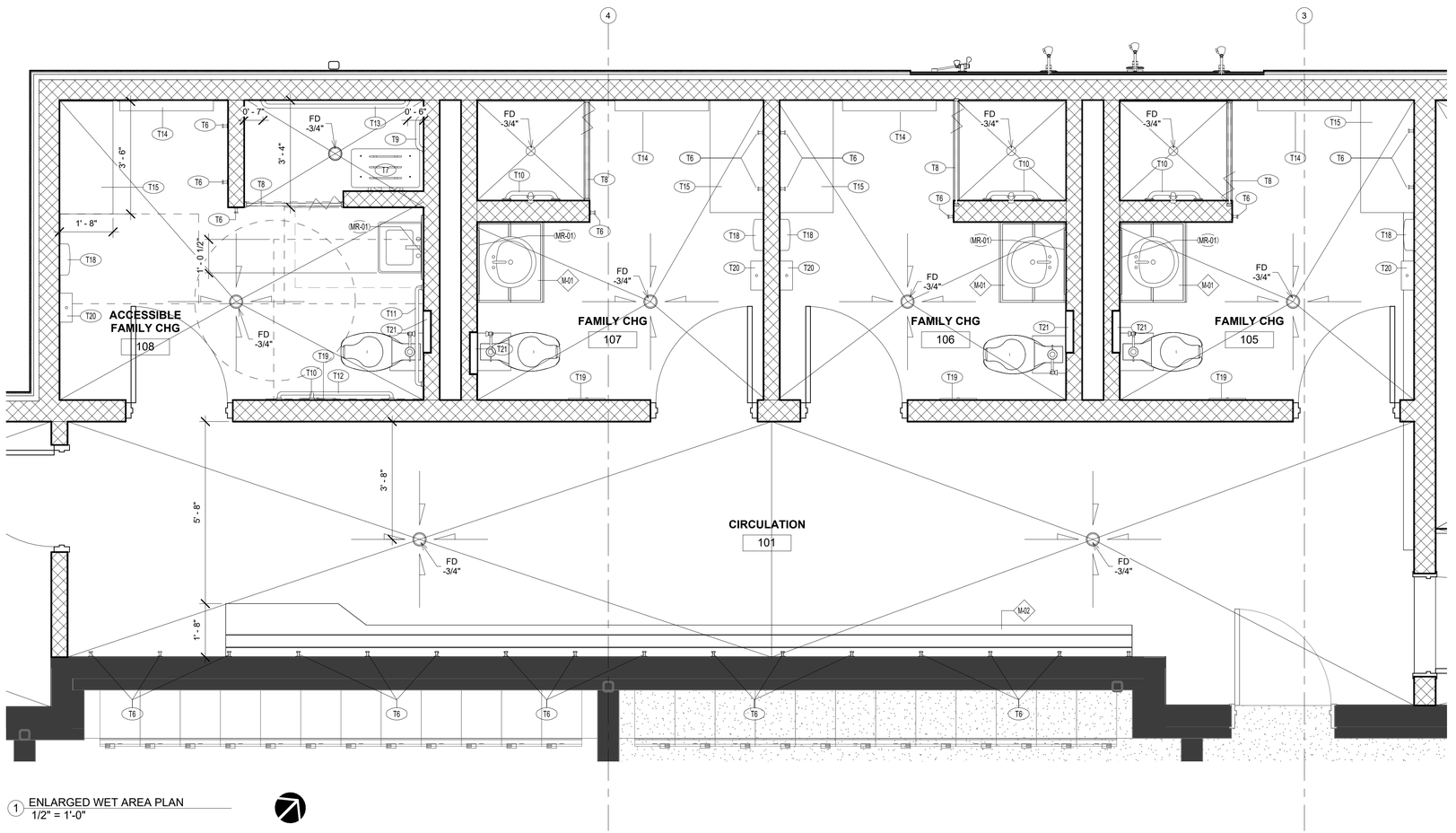
2 FAMILY CHG. VANITY M-01 PLAN
1/2" = 1'-0"



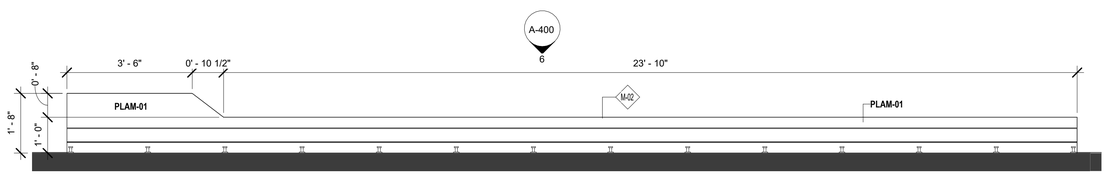
4 M-01 ELEV.-02
1/2" = 1'-0"



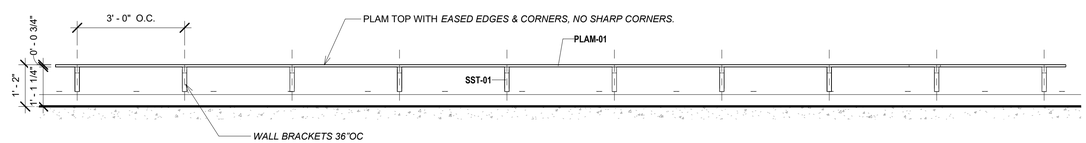
3 M-01 ELEV.-01
1/2" = 1'-0"



1 ENLARGED WET AREA PLAN
1/2" = 1'-0"



5 CIRCULATION-101 BENCH M-02 PLAN
1/2" = 1'-0"



6 M-02 ELEV.
1/2" = 1'-0"

TOILET ACCESSORY SCHEDULE				
MARK	DESCRIPTION	Manufacturer	Model	Type Comments
T6	COAT HOOK SET OF 2	BOBRICK	B-76727	CONTRACTOR SUPPLIED/ INSTALLED
T7	SOLID PHENOLIC FOLDING SHOWER SEAT	BOBRICK	B-5193	CONTRACTOR SUPPLIED/ INSTALLED
T8	HEAVY DUTY SHOWER CURTAIN ROD W/ CONCEALED MOUNTING & STAINLESS STEEL SHOWER CURTAIN HOOKS	BOBRICK	B-207 & 204-1	CONTRACTOR SUPPLIED/ INSTALLED. REFER TO FINISH SCHEDULE C-01.
T9	1 1/4" DIA STAINLESS STEEL GRAB BAR 12" LONG	BOBRICK	B-5806 x 12	CONTRACTOR SUPPLIED/ INSTALLED
T10	1 1/4" DIA HORIZONTAL STAINLESS STEEL GRAB BAR 18" LONG	BOBRICK	B-5806 x 18	CONTRACTOR SUPPLIED/ INSTALLED
T11	1 1/4" DIA HORIZONTAL STAINLESS STEEL GRAB BAR 36" LONG	BOBRICK	B-5806 x 36	CONTRACTOR SUPPLIED/ INSTALLED
T12	1 1/4" DIA VERTICAL STAINLESS STEEL GRAB BAR 42" LONG	BOBRICK	B-5806 x 42	CONTRACTOR SUPPLIED/ INSTALLED
T13	1 1/4" DIA VERTICAL STAINLESS STEEL GRAB BAR 54" LONG	BOBRICK	B-5806 x 54	CONTRACTOR SUPPLIED/ INSTALLED
T14	WALL MOUNTED BABY CHANGING STATION	KOALA	KB300-SS-05	CONTRACTOR SUPPLIED/ INSTALLED
T15	PHENOLIC BENCH - ACCESSIBLE	VERSABLE	101-DB-4220-PWS	REFER TO FINISH SCHEDULE PLAM-01.
T18	ELECTRIC HAND DRYER	Worl Dryer	Q-972A2	
T19	MULTI-ROLL TOILET TISSUE DISPENSER, TrimLineSeries™ SURFACE- MOUNTED	BOBRICK	B-3588	CONTRACTOR SUPPLIED/ INSTALLED
T20	Surface Mounted Paper Towel Dispenser	BOBRICK	B-4262	Satin Finish
T21	SEAT COVER DISPENSER	BOBRICK	B-301	CONTRACTOR SUPPLIED/ INSTALLED
T22	Water Cooler	Elkay Manufacturing	LZWS-EDFP217K	

MIRROR SCHEDULE			
TYPE	WIDTH	HEIGHT	COMMENT
MR-01	24"	36"	Bobrick B-165 2436 Channel Frame Mirror 24" x 36"

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Mountain Recreation Eagle Pool

1700 Bull Pasture Rd, Eagle, CO 81631

NO.	DATE:	TITLE/PURPOSE:
1	3/22/2024	SITE PLAN 02

SCALE: **1/2" = 1'-0"**
ISSUE DATE: **03/22/2024**
PROJECT #: **23079**
TITLE: **ENLARGED WET AREA**

SHEET #:
A-400

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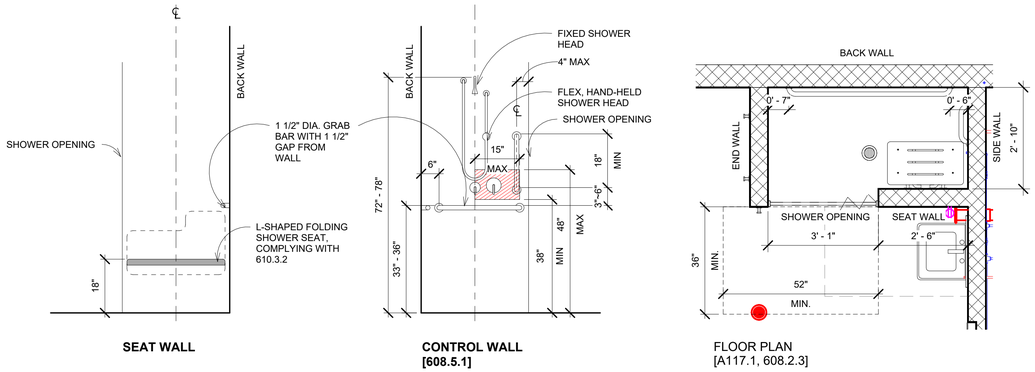
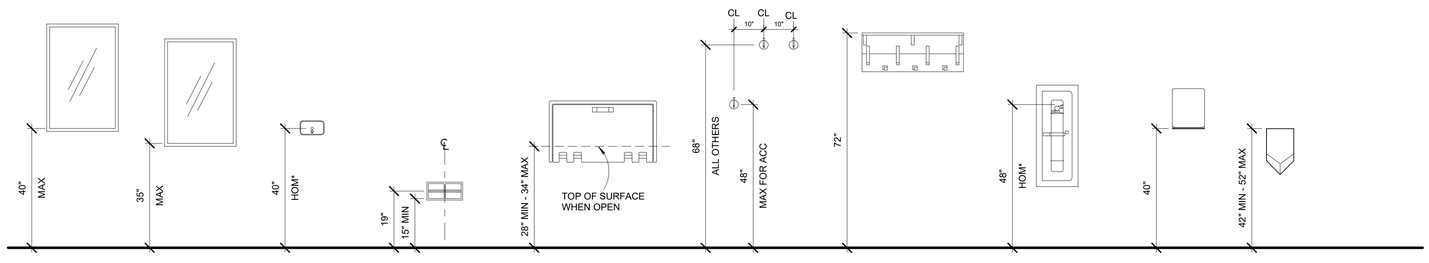


SEAT WALL

CONTROL WALL [608.5.1]

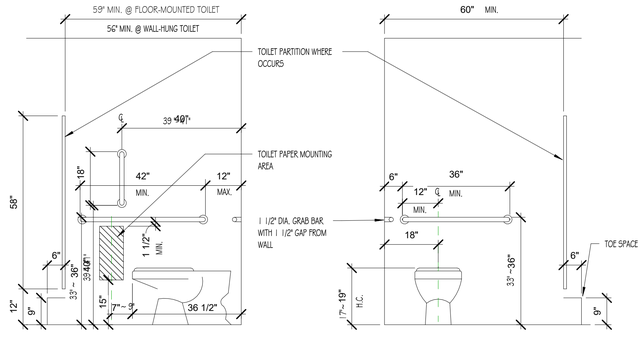
FLOOR PLAN [A117.1, 608.2.3]

MOUNTING HEIGHTS:
SHOWER DETAILS



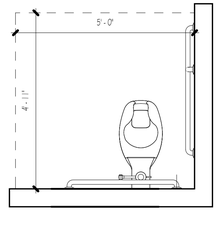
MIRROR OVER VANITY | **MIRROR NOT OVER VANITY** | **SOAP DISPENSER** | **TOILET PAPER HOLDER** | **DIAPER CHANGING STATION** | **TOWEL/ COAT HOOKS** | **SURFACE MTD MOP & BROOM HOLDER** | **FIRE EXTINGUISHER CABINET** | **PAPER TOWEL RECEPTACLE** | **HAND DRYER**

MOUNTING HEIGHTS:
TYPICAL TOILET ACCESSORIES

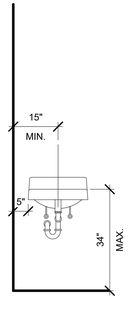


ACCESSIBLE TOILET SIDE WALL

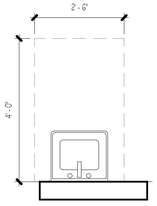
ACCESSIBLE TOILET BACK WALL



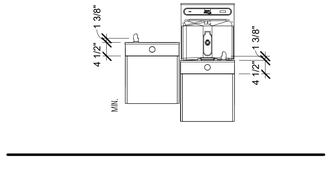
FLOOR PLAN ADA TOILET CLEARANCE



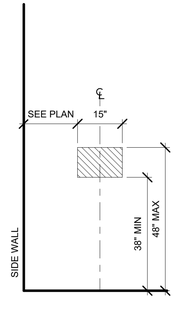
LAVATORY OR VANITY SINK ALL PIPES TO BE COVERED RE: PLIUMBING



FLOOR PLAN ADA SINK CLEARANCE



DRINKING FOUNTAINS | **HIGH/LOW ELECTRIC WATER COOLER**



SHOWER COMPARTMENT CONTROL LOCATION

MOUNTING HEIGHTS:
TYPICAL PLUMBING FIXTURES AND ACCESSORIES

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Mountain Recreation Eagle Pool
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NO.	DATE:	TITLE/PURPOSE:
1	3/22/2024	SITE PLAN 02

SCALE: 1/2" = 1'-0"
ISSUE DATE: 03/22/2024
PROJECT #: 23079
TITLE: ENLARGED WET AREA

SHEET #:
A-401

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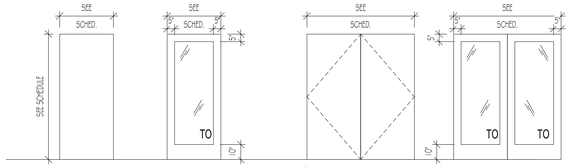
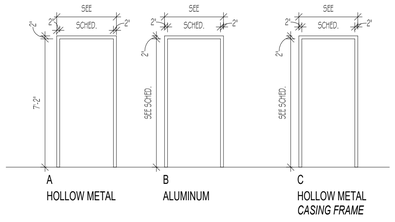
DOOR SCHEDULE

Door No.	DOOR MAT.	DOOR TYPE	DOOR FINISH	DOOR SIZE THK.	DOOR SIZE WD.	DOOR SIZE HGT.	FRAME MAT.	FRAME TYPE	FRAME FINISH	H.W. GROUP	REMARKS
100	AL	B	FF(DK)	1 3/4"	3' - 0"	7' - 2"	AL	B	FF(DK)	2	
104A	AL	B	FF(DK)	1 3/4"	3' - 0"	7' - 2"	AL	B	FF(DK)	4	
104B	HM	A	PT COLOR	1 3/4"	3' - 0"	7' - 2"	HM	A	PT COLOR	5	3/4 HOUR DOOR
105	AL	B	FF(DK)	1 3/4"	3' - 0"	7' - 2"	AL	B	FF(DK)	3	
106	AL	B	FF(DK)	1 3/4"	3' - 0"	7' - 2"	AL	B	FF(DK)	3	
107	AL	B	FF(DK)	1 3/4"	3' - 0"	7' - 2"	AL	B	FF(DK)	3	
108	AL	B	FF(DK)	1 3/4"	3' - 0"	7' - 2"	AL	B	FF(DK)	3	
E1 10A	N/A	N/A	N/A		6' - 4"	7' - 2"	HM	A	PT COLOR	N/A	CASING FRAME
X100	AL	D	FF(DK)	1 1/2"	6' - 4"	7' - 2"	AL	B	FF(DK)	1	EXISTING RELOCATED DOOR
X103	HM	C	PT COLOR	1 3/4"	5' - 8"	7' - 2"	HM	A	PT COLOR	6	
X104	HM	A	PT COLOR	1 3/4"	4' - 0"	7' - 2"	HM	A	PT COLOR	7	

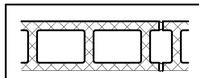
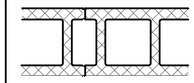
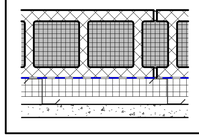




MRE HARDWARE SCHEDULE

	GROUP 01 (Exist Ext)			
6	STANDARD PIVOT/HINGE	EX MFR	INCLUDED ALUM DR SUPPLIER	
1	LOCK SET	EXIST	LOCK MECHANISM	
1	CYLINDER	EXIST	CYLINDER CORE	
2	PULLS	EX MFR	INCLUDED ALUM DR SUPPLIER	
2	EXIT DEVICES	EX MFR	CONCEALED ROD TOP & BOTT	
2	CLOSERS	EX MFR	INCLUDED ALUM DR SUPPLIER	
1	WEATHERSTRIPPING	EX MFR	INCLUDED ALUM DR SUPPLIER	
2	DOOR SWEEPS	EX MFR	INCLUDED ALUM DR SUPPLIER	
1	THRESHOLD	EX MFR	INCLUDED ALUM DR SUPPLIER	
	GROUP 02 (Corr)			
3	STANDARD HINGE	ALUM MFR	ALUM DR SUPPLIER	
1	LATCH SET	SARGENT	8215 P-LEVER	626
1	CLOSER	ALUM MFR	ALUM DR SUPPLIER	
2	KICK PLATES	ROCKWOOD	K1050 10" HIGH CSK BEV	US32D
1	WALL DOOR STOP	ALUM MFR	ALUM DR SUPPLIER	
1	WEATHERSTRIPPING	ALUM MFR	ALUM DR SUPPLIER	
	GROUP 03 (Pvt Toilet)			
3	STANDARD HINGE	ALUM MFR	ALUM DR SUPPLIER	
1	PRIV/IND LOCK SET	SARGENT	49 8265 V20 P-LEVER	626
1	CYLINDER	MATCH EXIST	CYLINDER CORE	626
1	CLOSER	ALUM MFR	ALUM DR SUPPLIER	
1	KICKPLATE	ROCKWOOD	K1050 10" HIGH CSK BEV	US32D
1	WALL DOOR STOP	ALUM MFR	ALUM DR SUPPLIER	
1	WEATHERSTRIPPING	ALUM MFR	ALUM DR SUPPLIER	
	GROUP 04 (Equip)			
3	STANDARD HINGE	ALUM MFR	ALUM DR SUPPLIER	
1	STORAGE LOCK SET	SARGENT	70 8204 P-LEVER 626	
1	CYLINDER	MATCH EXIST	CYLINDER CORE 626	
1	CLOSER	ALUM MFR	ALUM DR SUPPLIER	
1	KICKPLATE	ROCKWOOD	K1050 10" HIGH CSK BEV	US32D
1	WALL DOOR STOP	ALUM MFR	ALUM DR SUPPLIER	
1	WEATHERSTRIPPING	ALUM MFR	ALUM DR SUPPLIER	
	GROUP 05 (Elect)			
3	STANDARD HINGE	MCKINNEY	TA2714 4 1/2" X 4 1/2"	US26D
1	STORAGE LOCK SET	SARGENT	70 8204 P-LEVER	626
1	CYLINDER	MATCH EXIST	CYLINDER CORE	626
1	SURFACE CLOSER	NORTON	CLP7500	689
1	WALL DOOR STOP	ROCKWOOD	409	US32D
3	SILENCERS	ROCKWOOD	608	GRAY
	GROUP 06 (Ext Pr Stor)			
6	STANDARD HINGE	MCKINNEY	TA2714 4 1/2" X 4 1/2"	US26D
1	STORAGE LOCK SET	SARGENT	70 8204 P-LEVER	626
1	CYLINDER	MATCH EXIST	CYLINDER CORE	626
2	FLUSH BOLTS (TOP & BOTT)	ROCKWOOD	557	US26D
2	DOOR STOPS	ROCKWOOD	461	US26D
1	COORDINATOR	ROCKWOOD	2600	US28
1	SURFACE CLOSER	NORTON	CLP7500	689
1	ASTRAGAL	PEMKO	357	SP
2	DOOR SWEEP	PEMKO	345 V34	D
1	THRESHOLD	PEMKO	272 68"	A
1	GASKETING	PEMKO	S88 20'	D
1	DOOR TOP WEATHER DRIP	PEMKO	346 X 72"	D
	GROUP 07 (Ext Stor)			
4	STANDARD HINGE	MCKINNEY	TA2714 4 1/2" X 4 1/2"	US26D
1	EXIT DEVICE	VON DUPRIN	9827EO-F	US26D
1	STORAGE LOCK SET	SARGENT	70 8204 P-LEVER	626
1	CYLINDER	MATCH EXIST	CYLINDER CORE	626
1	SURFACE CLOSER	NORTON	CLP7500	689
1	DOOR SWEEP	PEMKO	345 V48	D
1	THRESHOLD	PEMKO	272 48"	A
1	GASKETING	PEMKO	S88 20'	D
1	DOOR TOP WEATHER DRIP	PEMKO	346 X 52"	D

WALL SCHEDULE

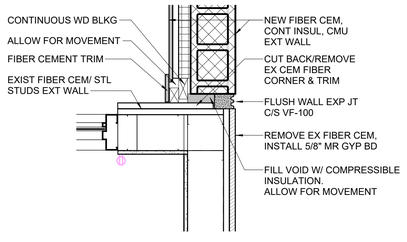
	WALL TYPE 19: 6" NOMINAL CONCRETE MASONRY UNIT
	WALL TYPE 20: 8" NOMINAL CONCRETE MASONRY UNIT
	WALL TYPE 40: EXTERIOR FIBER CEMENT SIDING 1/2" FIBER CEMENT SIDING 7/8" AIR SPACE 2" CONT. ROCK WOOL INSUL W/ CLIP AND RAIL WEATHER BARRIER 7 5/8" LOAD BEARING CMU INSULATED CAVITIES

WALL TYPES GENERAL NOTES

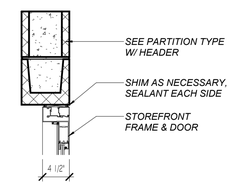
1. PROVIDE FLUSH STRUCK JOINTS AT ALL EXPOSED PAINTED CMU.
2. FILL ALL UNGROUTED CELLS WITH FOAM INSULATION IN ALL EXTERIOR WALLS

WALL TYPES SUFFIXES

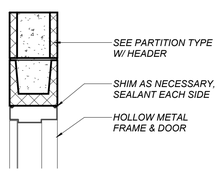
A. PROVIDE GYPSUM BOARD FULL HEIGHT TO STRUCTURAL DECK ABOVE.
B. CMU UP TO STRUCTURAL DECK ABOVE
C. A SINGLE COURSE OF CONCRETE BLOCK OR 8" CONCRETE CURB UNDER THE STUD PARTITION.
D. WALL UP TO 7'-4" A.F.F.
F. ALL UNGROUTED CELLS TO BE FILLED WITH EXPANDABLE FOAM INSULATION
G. RE STRUCTURE PLANS AND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



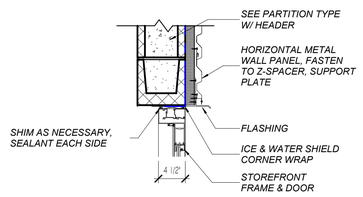
1 PLAN DETAIL 1
1" = 1'-0"



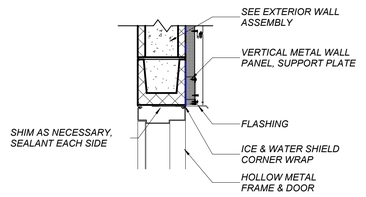
4 ALUM. HEAD DETAIL @ CMU WALL
1" = 1'-0"



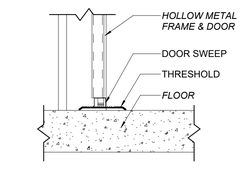
6 HM. HEAD DETAIL @ CMU WALL
1" = 1'-0"



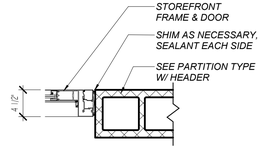
8 ALUM. HEAD DETAIL @ CMU WALL WITH METAL PANEL
1" = 1'-0"



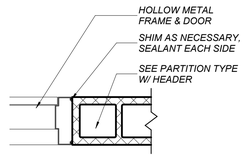
10 HM. HEAD DETAIL @ CMU WALL WITH METAL PANEL
1" = 1'-0"



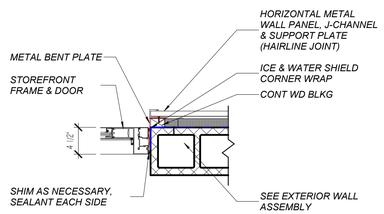
12 HM. THRESHOLD DETAIL @ CMU WALL
1" = 1'-0"



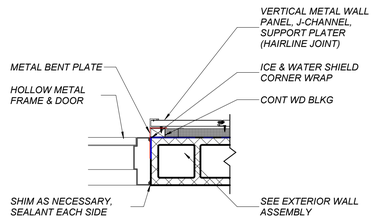
5 ALUM. JAMB DETAIL @ CMU WALL
1" = 1'-0"



7 HM. JAMB DETAIL @ CMU WALL
1" = 1'-0"



9 ALUM. JAMB DETAIL @ CMU WALL WITH METAL PANEL
1" = 1'-0"



11 HM. JAMB DETAIL @ CMU WALL WITH METAL PANEL
1" = 1'-0"

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Mountain Recreation Eagle Pool

1700 Bull Pasture Rd, Eagle, CO 81631

NO.	DATE:	TITLE/PURPOSE:
1	3/22/2024	SITE PLAN 02

SCALE: **As indicated**
ISSUE DATE: **03/22/2024**
PROJECT #: **23079**
TITLE: **SCHEDULE**

SHEET #:
A-600

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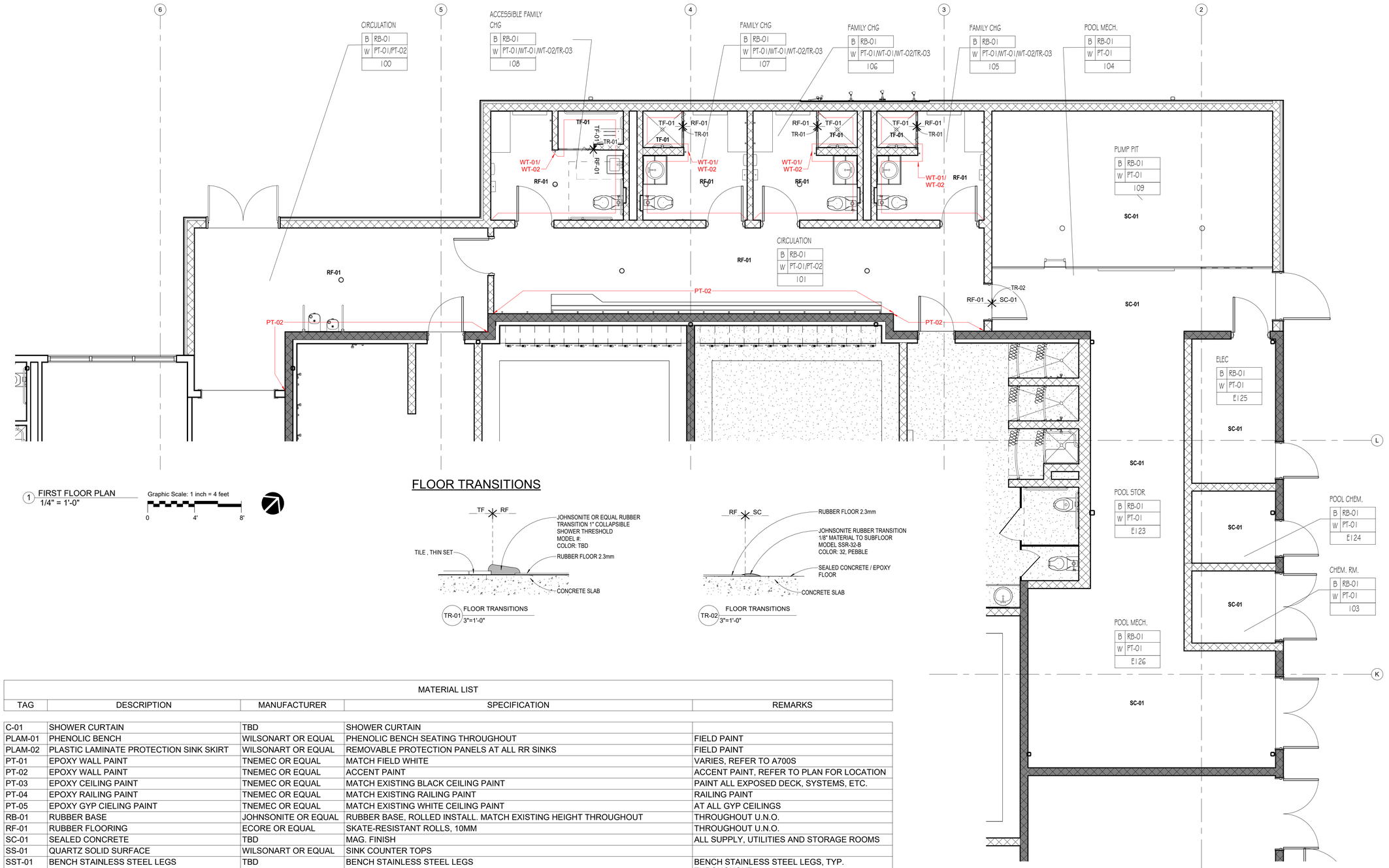

1 FIRST FLOOR PLAN
1/4" = 1'-0"

Graphic Scale: 1 inch = 4 feet
0 4' 8'

FLOOR TRANSITIONS

TR-01 FLOOR TRANSITIONS
3"=1'-0"

TR-02 FLOOR TRANSITIONS
3"=1'-0"

MATERIAL LIST

TAG	DESCRIPTION	MANUFACTURER	SPECIFICATION	REMARKS
C-01	SHOWER CURTAIN	TBD	SHOWER CURTAIN	
PLAM-01	PHENOLIC BENCH	WILSONART OR EQUAL	PHENOLIC BENCH SEATING THROUGHOUT	FIELD PAINT
PLAM-02	PLASTIC LAMINATE PROTECTION SINK SKIRT	WILSONART OR EQUAL	REMOVABLE PROTECTION PANELS AT ALL RR SINKS	FIELD PAINT
PT-01	EPOXY WALL PAINT	TNEMEC OR EQUAL	MATCH FIELD WHITE	VARIES, REFER TO A700S
PT-02	EPOXY WALL PAINT	TNEMEC OR EQUAL	ACCENT PAINT	ACCENT PAINT, REFER TO PLAN FOR LOCATION
PT-03	EPOXY CEILING PAINT	TNEMEC OR EQUAL	MATCH EXISTING BLACK CEILING PAINT	PAINT ALL EXPOSED DECK, SYSTEMS, ETC.
PT-04	EPOXY RAILING PAINT	TNEMEC OR EQUAL	MATCH EXISTING RAILING PAINT	RAILING PAINT
PT-05	EPOXY GYP CIELING PAINT	TNEMEC OR EQUAL	MATCH EXISTING WHITE CEILING PAINT	AT ALL GYP CEILINGS
RB-01	RUBBER BASE	JOHNSONITE OR EQUAL	RUBBER BASE, ROLLED INSTALL. MATCH EXISTING HEIGHT THROUGHOUT	THROUGHOUT U.N.O.
RF-01	RUBBER FLOORING	ECORE OR EQUAL	SKATE-RESISTANT ROLLS, 10MM	THROUGHOUT U.N.O.
SC-01	SEALED CONCRETE	TBD	MAG. FINISH	ALL SUPPLY, UTILITIES AND STORAGE ROOMS
SS-01	QUARTZ SOLID SURFACE	WILSONART OR EQUAL	SINK COUNTER TOPS	
SST-01	BENCH STAINLESS STEEL LEGS	TBD	BENCH STAINLESS STEEL LEGS	BENCH STAINLESS STEEL LEGS, TYP. THROUGHOUT
TF-01	TILE FLOORING	CROSSVILLE OR EQUAL	2x2 CERAMIC SHOWER TILE, THICKSET, SLOPE TO DRAIN TYP. THROUGHOUT	LOCATIONS OF SHOWERS
TR-01	FLOOR SHOWER TRANISTION STRIP	JOHNSONITE OR EQUAL	VINYL COLLAPSIBLE SHOWER THRESHOLD WATER DAM, WATER STOPPER. ADA COMPLIANT.	AT ALL SHOWERS TYP.
TR-02	FLOOR TRANSISTION STRIP	SCHULTER OR EQUAL	FLOORING TRANSISTION BETWEEN RUBBER FLOORING TO SEALED CONCRETE	REFER TO FINISH PLAN
TR-03	WALL TILE FINISH EDGE TRIM	SCHULTER	JOLLY SLIM FINISH EDGE	ALL LOCATIONS OF WALL TILE TYP. THROUGHOUT, REFER TO FINISH PLAN AN ELEV.
WT-01	WALL TILE	TRINITY OR EQUAL	3"X6" COLOR/PATTERN/ GROUT: TBD WALL TILE AT WET WALLS TO BE 2 TILE PATTERN, FULL WALL TO FLOOR INSTALL, PROVIDE FINISH EDGE SCHULTER TRIMS AT ALL TRANSITIONS	WET WALLS (TILE TO FLOOR)
WT-02	WALL TILE	TRINITY OR EQUAL	3"X6" COLOR/PATTERN/ GROUT: TBD WALL TILE AT WET WALLS TO BE 2 TILE PATTERN, FULL WALL TO FLOOR INSTALL, PROVIDE FINISH EDGE SCHULTER TRIMS AT ALL TRANSITIONS	WET WALLS (TILE TO FLOOR)
WT-03	WALL TILE	TRINITY OR EQUAL	3"X6" COLOR/PATTERN/ GROUT: TBD WALL TILE AT WET WALLS TO BE 2 TILE PATTERN, FULL WALL TO FLOOR INSTALL, PROVIDE FINISH EDGE SCHULTER TRIMS AT ALL TRANSITIONS	WET WALLS (TILE TO FLOOR)

ROOM FINISH SCHEDULE

Number	Name	Floor Finish	Main Room finish		Finish Comment
			Wall Finish	Base Finish	
100	CIRCULATION	RF-01	PT-01/PT-02	RB-01	
101	CIRCULATION	RF-01	PT-01/PT-02	RB-01	
103	CHEM. RM.	SC-01	PT-01	RB-01	
104	POOL MECH.	SC-01	PT-01	RB-01	
105	FAMILY CHG	RF-01/ TF-01	PT-01/WT-01/WT-02/TR-03	RB-01	TILED WALLS TO HAVE TILE TO FLOOR, NO RUBBER BASE NEEDED
106	FAMILY CHG	RF-01/ TF-01	PT-01/WT-01/WT-02/TR-03	RB-01	TILED WALLS TO HAVE TILE TO FLOOR, NO RUBBER BASE NEEDED
107	FAMILY CHG	RF-01/ TF-01	PT-01/WT-01/WT-02/TR-03	RB-01	TILED WALLS TO HAVE TILE TO FLOOR, NO RUBBER BASE NEEDED
108	ACCESSIBLE FAMILY CHG	RF-01/ TF-01	PT-01/WT-01/WT-02/TR-03	RB-01	TILED WALLS TO HAVE TILE TO FLOOR, NO RUBBER BASE NEEDED
109	PUMP PIT	SC-01	PT-01	RB-01	

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Mountain Recreation Eagle Pool

1700 Bull Pasture Rd, Eagle, CO 81631

NO.	DATE:	TITLE/PURPOSE:
1	3/22/2024	SITE PLAN 02

SCALE: As indicated
ISSUE DATE: 03/22/2024
PROJECT #: 23079
TITLE: FIRST FLOOR FINISH PLAN

SHEET #:
A-700

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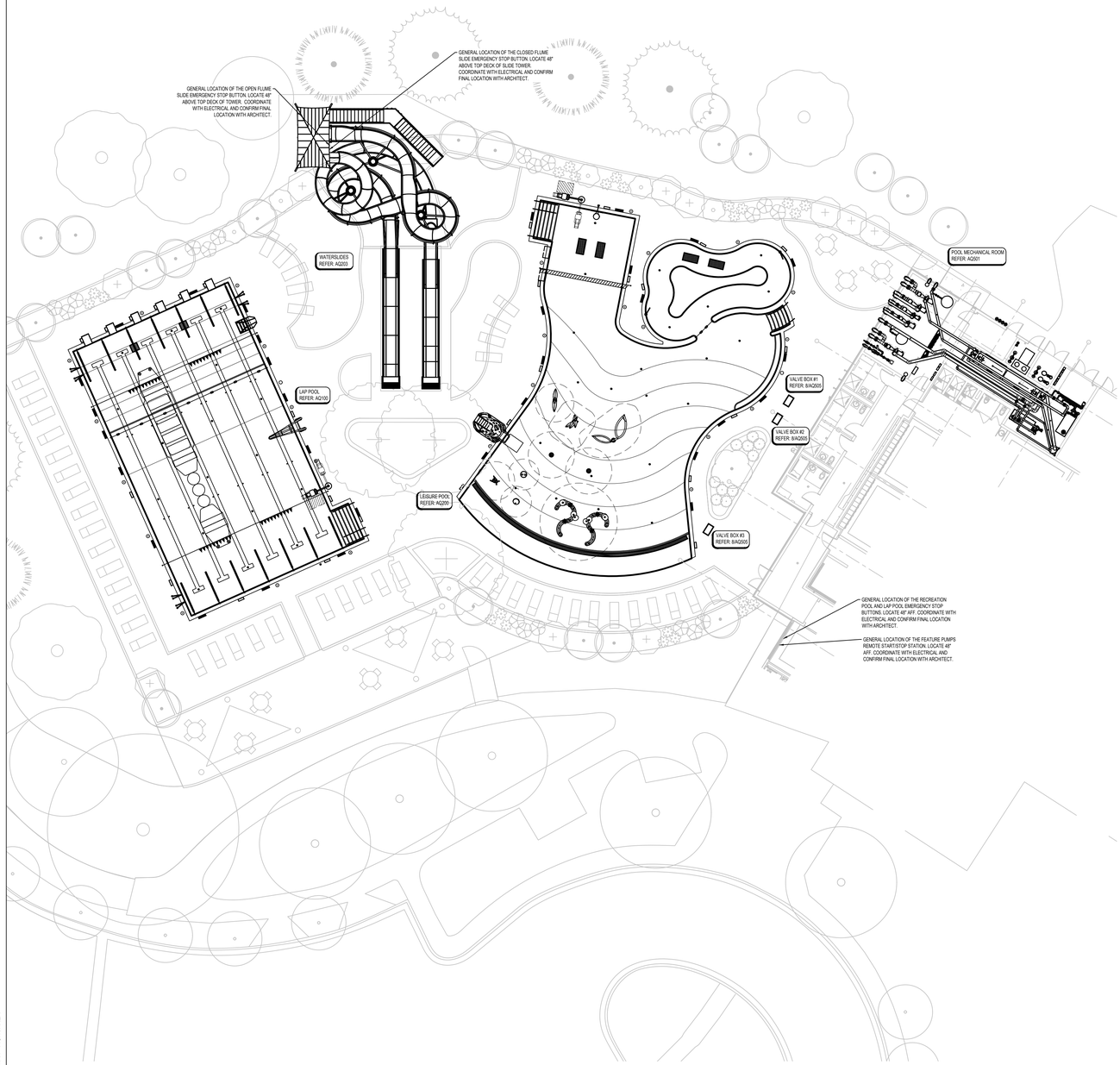

1 AQ0.0 POOL REFERENCE PLAN

1/16" = 1'-0"

N

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
AQ203	RECREATION POOL DETAILS
AQ204	WATERSLIDE PLAN, ELEVATION & DETAILS
AQ400	POOL PIPING NOTES & SCHEDULES
AQ401	POOL SUCTION PIPING PLAN
AQ402	POOL RETURN PIPING PLAN
AQ403	POOL FEATURE RETURN PIPING PLAN
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

POOL ALTERNATES

ALTERNATE #1: WATERSLIDE TOWER
BASE BID: PROVIDE AND INSTALL CAPPED PIPING FROM THE PUMP PIT TO THE PLANNED WATERSLIDE TOWER LOCATION. PROVIDE SPACE AND ELECTRICAL ROUGH-IN IN THE PUMP PIT FOR FUTURE WATERSLIDE PUMPS. PROVIDE AND INSTALL WATERSLIDE RUNOUT DISCHARGE FRAMES/GRATES TO PLANNED WATERSLIDE RUNOUT LOCATIONS. CAP RUNOUT DISCHARGE PIPES UNDERGROUND.
ALTERNATE 1A: PROVIDE AND INSTALL PIPING, BOTH PUMPS, BOTH WATERSLIDES, STAIR TOWER, RUNOUT PAD, BOTH RUNOUT SUMPS, AND BOTH FRAMES/GRATES AS SHOWN ON THE DRAWINGS.
ALTERNATE 1B: PROVIDE AND INSTALL PIPING, OPEN FLUME SLIDE PUMP, OPEN FLUME WATERSLIDE, STAIR TOWER, RUNOUT PAD, BOTH RUNOUT SUMPS, AND BOTH FRAMES/GRATES AS SHOWN ON THE DRAWINGS. CLOSED FLUME WATERSLIDE PIPING SHALL BE ROUGHED-IN AND CAPPED AS INDICATED ON THE BASE BID, AND CLOSE FLUME WATERSLIDE AND PUMP SHALL BE INSTALLED AT THE LATER DATE. FUTURE PUMP ELECTRICAL SHALL BE ROUGHED-IN.

ALTERNATE #2: SPRAY FEATURES
BASE BID: PROVIDE AND INSTALL CAPPED PIPING FROM THE PIMP PIT TO THE PLANNED MODULAR ANCHORAGE PROVIDED BY SPRAY FEATURE MANUFACTURER. PROVIDE SPACE IN THE PUMP PIT FOR FUTURE SPRAY FEATURE PUMPS. PROVIDE AND INSTALL MODULAR SPRAY FEATURE ANCHORS AT INTENDED LOCATIONS WITH FOOTINGS REQUIRED BY MANUFACTURER AND PROVIDE WITH CAP FOR WINTERIZATION.
ALTERNATE: PROVIDE AND INSTALL PIPING, PUMPS, ANCHORS, FOOTINGS, AND SPRAY FEATURES AT RECREATION POOL.

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: WATER BASKETBALL AND VOLLEYBALL
BASE BID: PROVIDE AND INSTALL ANCHORS FOR FUTURE WATER BASKETBALL AND WATER VOLLEYBALL. DO NOT PROVIDE BASKETBALL AND VOLLEYBALL FEATURES.
ALTERNATE: PROVIDE AND INSTALL WATER BASKETBALL AND WATER VOLLEYBALL FEATURES AND ANCHORS AS INDICATED ON THE DRAWINGS.

ALTERNATE #7: 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 FOR BOTH POOLS.

ALTERNATE #8: 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.

DESIGN DATA

	UNITS	LAP POOL	RECREATION POOL
LENGTH	FT.	75'-3/4"	VARIES
WIDTH	FT.	VARIES	VARIES
WATER SURFACE AREA	SQ. FT.	3,353	4,180
PERIMETER	FT.	248	362
VOLUME	GALLONS	130,750	75,736
RECIRCULATION SYSTEM			
POOL TURNOVER RATE	HOURS	3.96	1.87
RECIRCULATION RATE	GPM	550	675
SEWER CAPACITY	GPM	REFER TO PLUMBING	REFER TO PLUMBING
BATHER LOAD	PERSONS	206	278
MAXIMUM FACILITY BATHER LOAD	PERSONS	484	

GENERAL POOL NOTES

1. ◆DENOTES WATER DEPTH FROM WATER LEVEL.
2. 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.
3. ALL POOL FLOOR AREAS 18" AND SHALLOWER AND ALL STAIR TREADS MUST HAVE A SLIP RESISTANT FINISH.
4. TYPICAL POOL DIMENSIONS SHOWN ARE FROM INSIDE FINISHED POOL WALL.
5. REFER TO STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR ALL DIMENSIONS RELATING TO THE THICKNESS OF THE POOL SHELL AND CONCRETE CURING METHODS.
6. THE JUNCTION BETWEEN THE SWIMMING POOL WALL AND THE FLOOR MUST BE COVED WITH A MAXIMUM 6" RADIUS.
7. 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.
8. ALL PROPRIETARY NAMES MENTIONED ARE TO DESIGNATE PERFORMANCE STANDARDS. EQUIVALENT PRODUCTS MUST BE SUBMITTED FOR APPROVAL.
9. SLIP RESISTANT DECK FINISH REQUIRED. REFER TO ARCHITECT.
10. REFER TO PLUMBING FOR DECK DRAINS AND HOSE BIBBS.
11. ALL SURFACE WATER MUST DRAIN AWAY FROM THE POOL.
12. REFER TO ELECTRICAL FOR GFI OUTLETS ON POOL DECK.
13. ELECTRICAL INSPECTOR MUST APPROVE INSTALLATION OF BONDING GRID FOR POOL REINFORCING AND ALL POOL EMBEDS PRIOR TO PLACEMENT OF CONCRETE.
14. NO GROUND WATER MUST BE ALLOWED TO RISE ABOVE ANY PORTION OF THE POOL BOTTOM DURING CONSTRUCTION.
15. COMPETITION POOL HAS BEEN DESIGNED TO BE IN COMPLIANCE WITH THE RULES AND REGULATIONS OF USA SWIMMING (USA-S).
16. REFER TO SWIMMING POOL SPECIFICATIONS FOR COMPETITION RACE COURSE TOLERANCES.
17. ALL METALLIC PORTIONS OF PLAY FEATURE MUST BE EPOXY COATED STAINLESS STEEL.
18. 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:
19. 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.
20. CONTRACTOR TO PROVIDE CHEMICAL QUANTITIES PER CONTRACTOR SUPPLIED POOL CHEMICAL SCHEDULE AFTER INITIAL WATER BALANCE IS REACHED PRIOR TO OWNER TURNOVER.
21. THE POOLS AND ZERO-ENTRY TRENCH SYSTEM 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.

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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
2	03/09/2024	50% CD
3	03/22/2024	SITE PLAN APPLICATION 02

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

SHEET #:
AQ000

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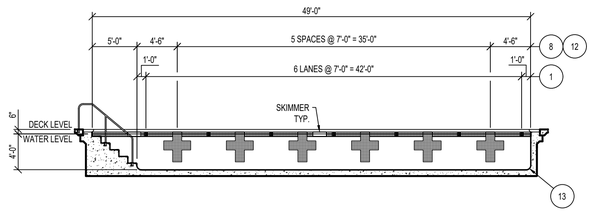
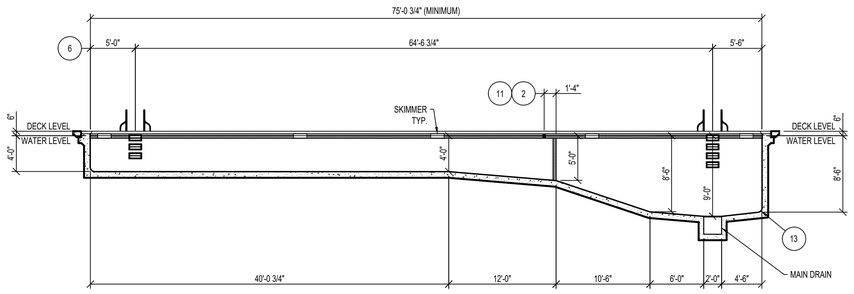


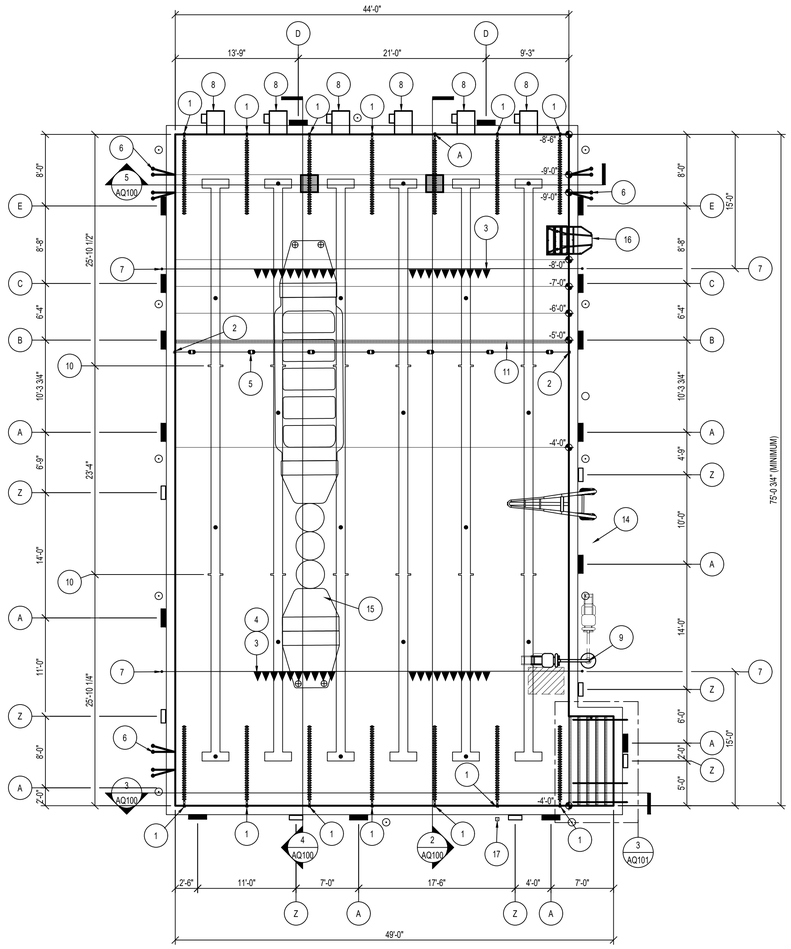
3 AQ100 LAP POOL SECTION

1/8" = 1'-0"



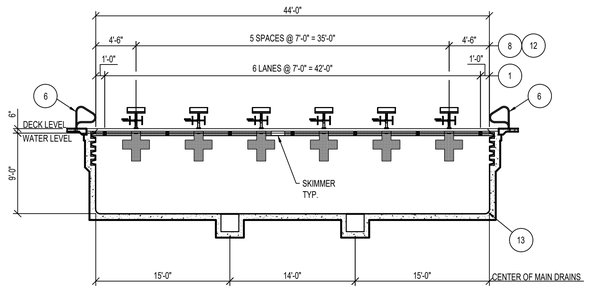
4 AQ100 LAP POOL SECTION

1/8" = 1'-0"



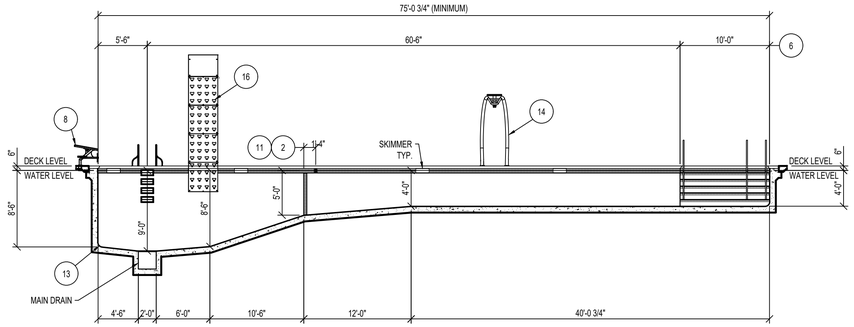
1 AQ100 LAP POOL PLAN

1/8" = 1'-0"



5 AQ100 LAP POOL SECTION

1/8" = 1'-0"



2 AQ100 LAP POOL SECTION

1/8" = 1'-0"

DEPTH & WARNING SIGNAGE SCHEDULE	
ID	SIGNAGE
A	4 FT 0 IN
B	5 FT0 IN
C	7 FT 0 IN
D	8 FT 6 IN
E	9 FT 0 IN
Z	NO DIVING

NOTE:
REFER: X/AQX.X FOR DETAIL.

EQUIPMENT SCHEDULE	
ID	ITEM
1	LANE ROPE CUP ANCHOR REFER:
2	SAFETY ROPE CUP ANCHOR REFER:
3	BACKSTROKE PENNANT
4	FALSE START ROPE ASSEMBLY
5	SAFETY ROPE
6	GRAB RAILS & RECESSED STEPS REFER:
7	STANCHION POST & ANCHOR REFER:
8	DECK MOUNTED STARTING PLATFORM & ANCHOR REFER:
9	POOL LIFT & ANCHOR REFER:
10	RESURFACING MARKER REFER:
11	4" CONTRASTING TILE BAND COLOR BY ARCHITECT
12	WALL TARGET REFER:
13	POOL COVE REFER:
14	AQUA ZIPN REFER:
15	WIBIT FEATURE REFER:
16	CLIMBING WALL FEATURE REFER:
17	WATER BASKETBALL ANCHOR ONLY REFER:

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PROJECT #: **23079**
TITLE: **LAP POOL PLAN & SECTIONS**

SHEET #:
AQ100

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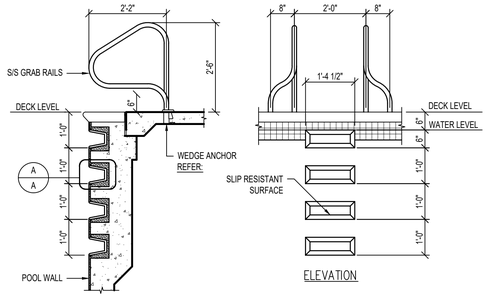
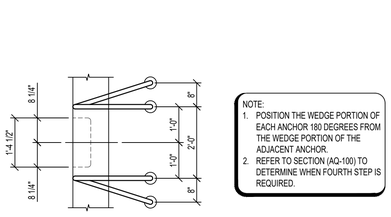
PLAN

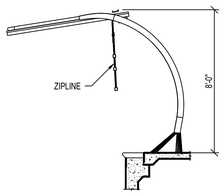
NOTE:
1. POSITION THE WEDGE PORTION OF EACH ANCHOR 180 DEGREES FROM THE WEDGE PORTION OF THE ADJACENT ANCHOR.
2. REFER TO SECTION (AQ-100) TO DETERMINE WHEN FOURTH STEP IS REQUIRED.



10 AQ101 GRAB RAILS & RECESSED STEPS
1/2" = 1'-0"

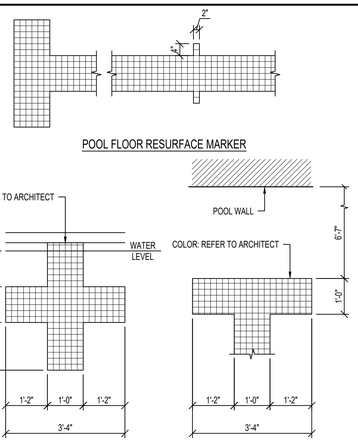


PLAN



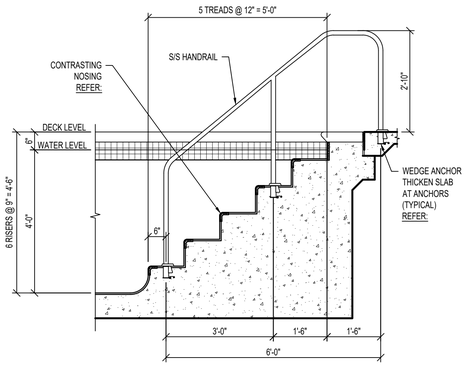
ELEVATION

11 AQ101 ZIPLINE FEATURE
1/4" = 1'-0"

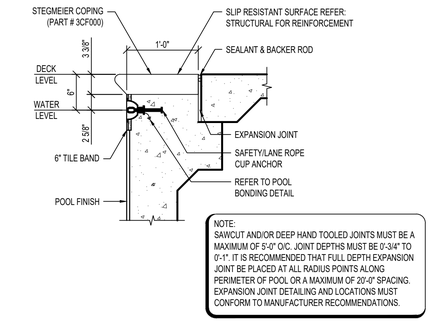


7 AQ101 WALL TARGETS & FLOOR MARKERS
1/2" = 1'-0"

NOTE:
LOCATE HANDRAILS TO PROVIDE A MINIMUM 2 1/4" CLEARANCE BETWEEN HANDRAIL GRIPPING SURFACE AND ALL ADJACENT STRUCTURES.



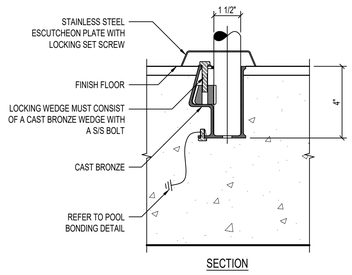
4 AQ101 STAIR SECTION
1/2" = 1'-0"



NOTE:
SAWCUT AND/OR DEEP HAND TOOLED JOINTS MUST BE A MAXIMUM OF 5'-0" O/C. JOINT DEPTHS MUST BE 0'-3/4" TO 0'-1". IT IS RECOMMENDED THAT FULL DEPTH EXPANSION JOINT BE PLACED AT ALL RADIUS POINTS ALONG PERIMETER OF POOL OR A MAXIMUM OF 20'-0" SPACING. EXPANSION JOINT DETAILING AND LOCATIONS MUST CONFORM TO MANUFACTURER RECOMMENDATIONS.

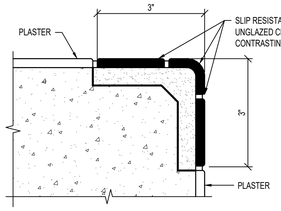
1 AQ101 POOL WALL SECTION
1" = 1'-0"

PLAN



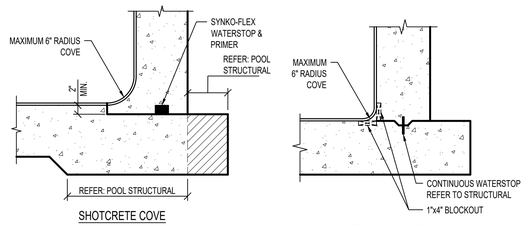
SECTION

8 AQ101 WEDGE ANCHOR
3" = 1'-0"

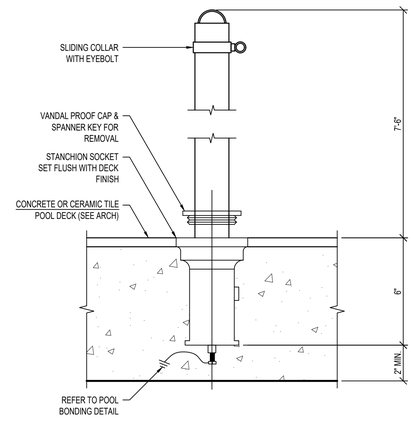


5 AQ101 CONTRASTING NOSING
6" = 1'-0"

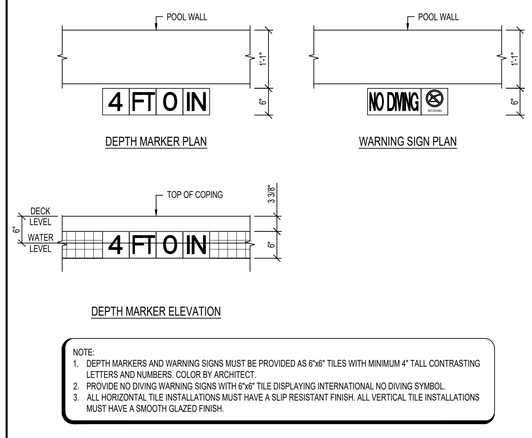
NOTE:
1. ALL JUNCTIONS BETWEEN THE SWIMMING POOL WALL AND THE FLOOR MUST BE COVED.
2. POOL FLOOR MUST BE CAST IN PLACE.



2 AQ101 POOL COVE
3/4" = 1'-0"

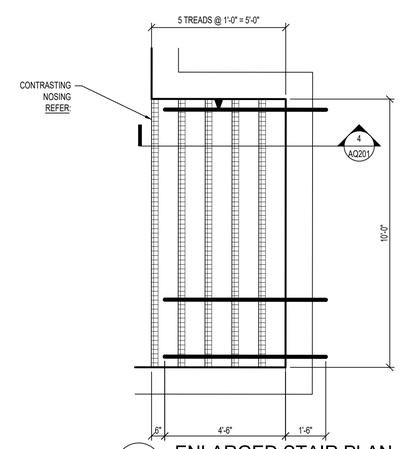


9 AQ101 STANCHION POST & ANCHOR
3" = 1'-0"



NOTE:
1. DEPTH MARKERS AND WARNING SIGNS MUST BE PROVIDED AS 6"x6" TILES WITH MINIMUM 4" TALL CONTRASTING LETTERS AND NUMBERS. COLOR BY ARCHITECT.
2. PROVIDE NO DIVING WARNING SIGNS WITH 6"x6" TILE DISPLAYING INTERNATIONAL NO DIVING SYMBOL.
3. ALL HORIZONTAL TILE INSTALLATIONS MUST HAVE A SLIP RESISTANT FINISH. ALL VERTICAL TILE INSTALLATIONS MUST HAVE A SMOOTH GLAZED FINISH.

6 AQ101 DEPTH MARKERS & WARNING SIGNS
3/4" = 1'-0"



3 AQ101 ENLARGED STAIR PLAN
3/8" = 1'-0"

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TITLE: **LAP POOL DETAILS**

SHEET #:
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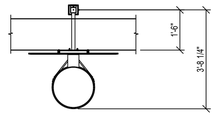
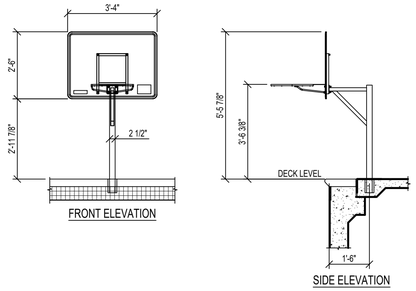
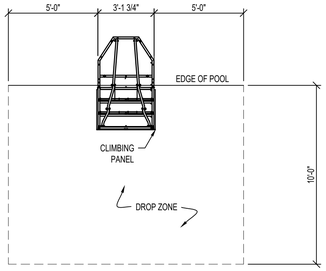


PLAN VIEW

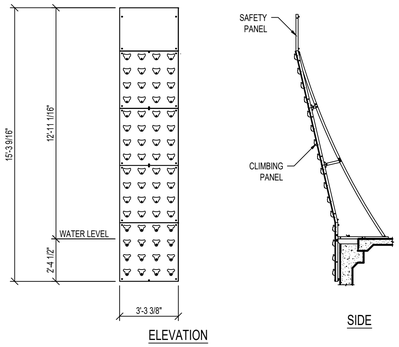


5 AQ102 WATER BASKETBALL GOAL

3/8" = 1'-0"



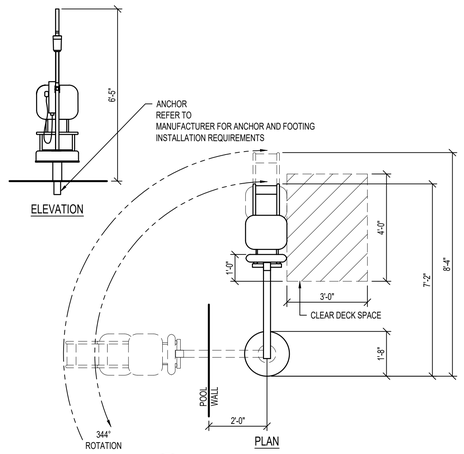
PLAN



ELEVATION SIDE

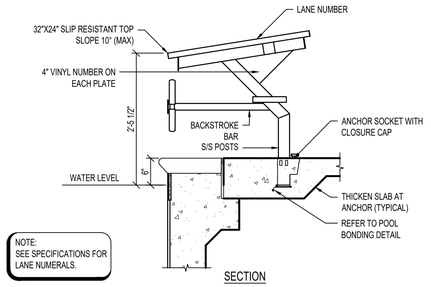
4 AQ102 CLIMBING WALL

1/4" = 1'-0"

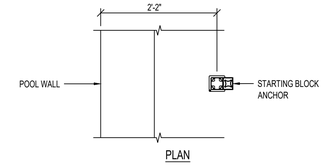


1 AQ102 POOL LIFT

3/8" = 1'-0"



SECTION

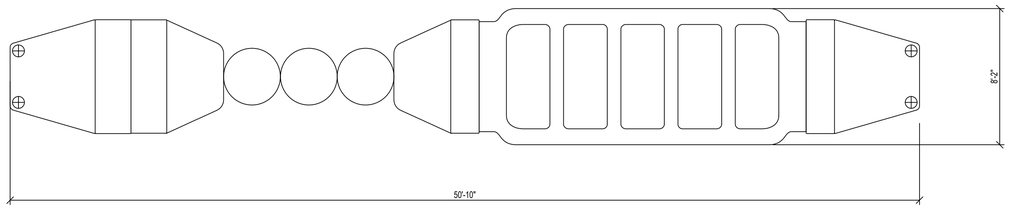


PLAN

2 AQ102 STARTING BLOCK

3/4" = 1'-0"

NOTE:
1. PROVIDE ALL FASTENERS REQUIRED TO SECURE WIBIT TO POOL WALLS.
2. WIBIT SHOULD NOT BE USED IN POOL DEPTHS SHALLOWER THAN 3'-11".



WIBIT PLAN

3 AQ102 WIBIT FEATURE

1/4" = 1'-0"

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SHEET #:
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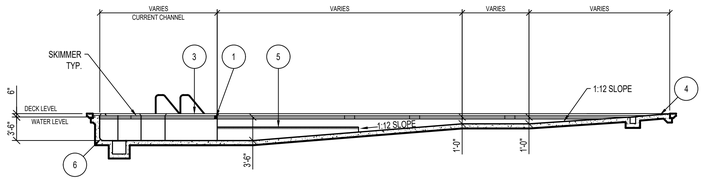
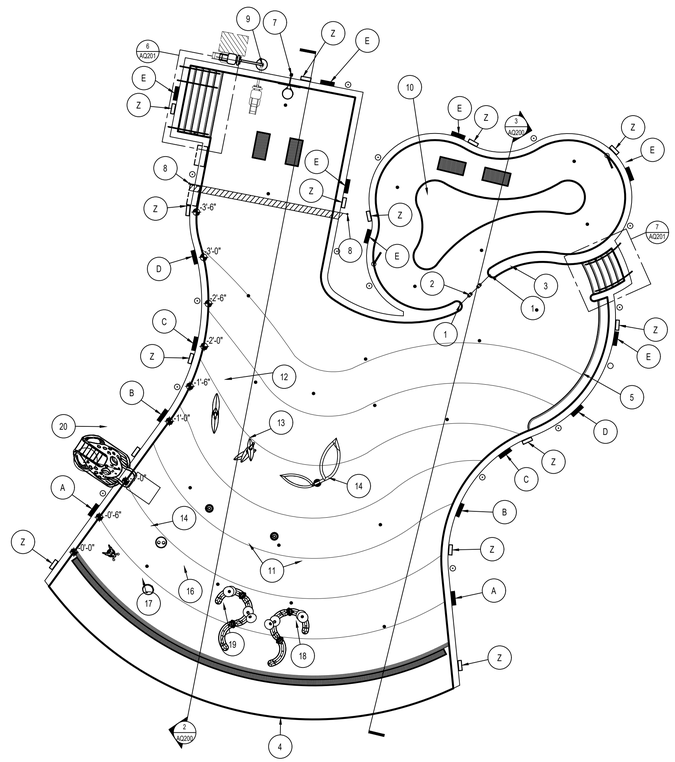


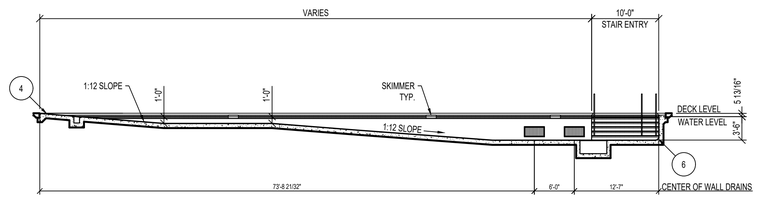
3 AQ100 LEISURE POOL SECTION

3/32" = 1'-0"



1 AQ200 LEISURE POOL PLAN

3/32" = 1'-0"



2 AQ100 LEISURE POOL SECTION

3/32" = 1'-0"

DEPTH & WARNING SIGNAGE SCHEDULE

ID	SIGNAGE
A	0 FT 6 IN
B	1 FT 0 IN
C	2 FT0 IN
D	3 FT 0 IN
E	3 FT 6 IN
Z	NO DIVING

NOTE:
REFER: X/AQX.X FOR DETAIL.

EQUIPMENT SCHEDULE

ID	ITEM
1	SAFETY ROPE CUP ANCHOR REFER:
2	SAFETY ROPE
3	WING WALL REFER:
4	ZERO ENTRY REFER:
5	UNDERWATER BENCH REFER:
6	POOL COVE REFER:
7	WATER BASKETBALL GOAL REFER:
8	WATER VOLLEYBALL STANCHION POST & ANCHOR REFER:
9	POOL LIFT AND ANCHOR REFER:
10	CURRENT CHANNEL ISLAND REFER:
11	CASCADE RAIN FOREST REFER:
12	BAMBOO TREE 1 REFER:
13	BAMBOO TREE 2 REFER:
14	BUTTERFLY NO 1 REFER:
15	LEAF NO 3 REFER:
16	FROG 1 REFER:
17	WATER BUG NO 3 REFER:
18	AQUADOME NO 2 REFER:
19	AQUADOME NO 1 REFER:
20	FROG SLIDE REFER:

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ISSUE DATE: **MARCH 22, 2024**
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TITLE: **LEISURE POOL PLAN & SECTIONS**

SHEET #:
AQ200

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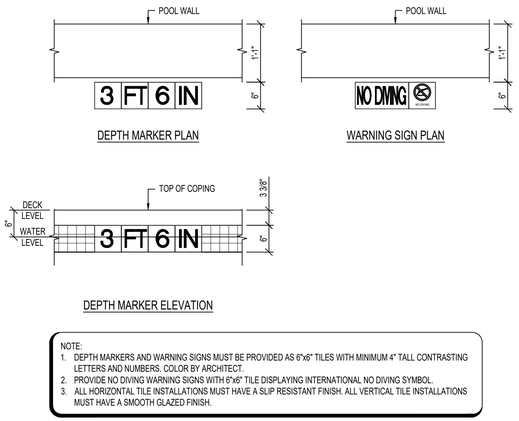
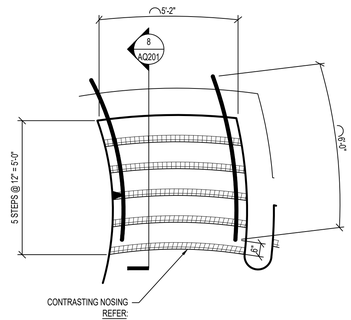
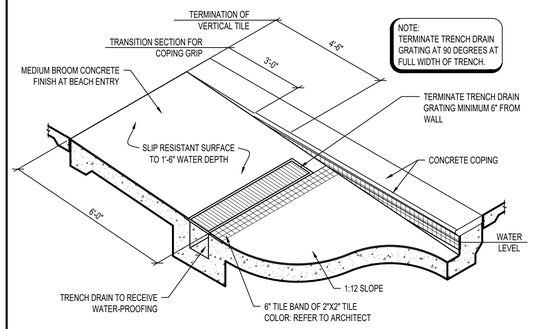


NOTE:
1. DEPTH MARKERS AND WARNING SIGNS MUST BE PROVIDED AS 6"x6" TILES WITH MINIMUM 4" TALL CONTRASTING LETTERS AND NUMBERS. COLOR BY ARCHITECT.
2. PROVIDE NO DIVING WARNING SIGNS WITH 6"x6" TILE DISPLAYING INTERNATIONAL NO DIVING SYMBOL.
3. ALL HORIZONTAL TILE INSTALLATIONS MUST HAVE A SLIP RESISTANT FINISH. ALL VERTICAL TILE INSTALLATIONS MUST HAVE A SMOOTH GLAZED FINISH.

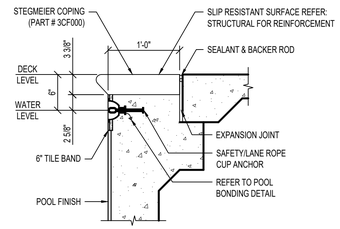
10 / AQ201 — DEPTH MARKERS & WARNING SIGNS
3/4" = 1'-0"



7 / AQ201 — ENLARGED STAIR PLAN
3/8" = 1'-0"

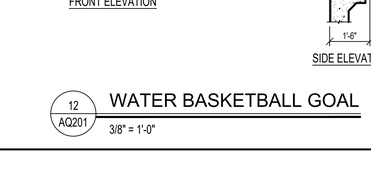


4 / AQ201 — ZERO ENTRY ISOMETRIC
3/8" = 1'-0"



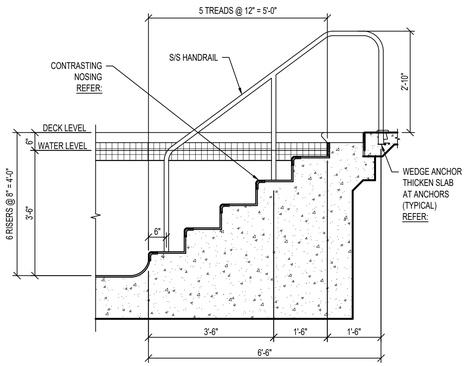
NOTE:
SAWCUT AND/OR DEEP HAND TOOLED JOINTS MUST BE A MAXIMUM OF 2'-0" O/C. JOINT DEPTHS MUST BE 0'-3/4" TO 0'-1".

1 / AQ201 — POOL WALL SECTION
1" = 1'-0"



11 / AQ201 — WEDGE ANCHOR
3" = 1'-0"

NOTE:
LOCATE HANDRAILS TO PROVIDE A MINIMUM 2 1/4" CLEARANCE BETWEEN HANDRAIL GRIPPING SURFACE AND ALL ADJACENT STRUCTURES.

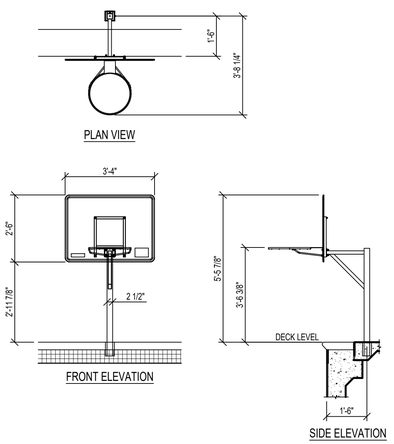


8 / AQ201 — STAIR SECTION
1/2" = 1'-0"

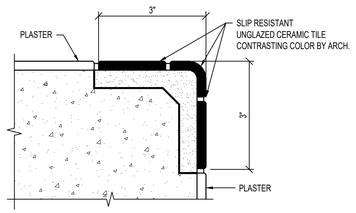
5 / AQ201 — WING WALL SECTION
1" = 1'-0"

NOTE:
1. ALL JUNCTIONS BETWEEN THE SWIMMING POOL WALL AND THE FLOOR MUST BE COVED.
2. POOL FLOOR MUST BE CAST IN PLACE.

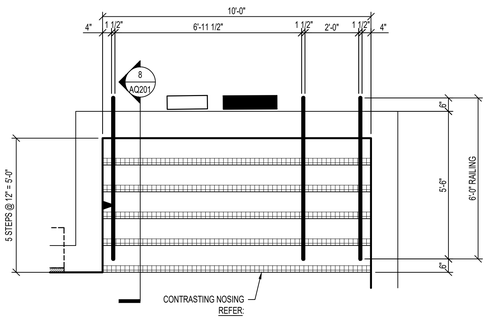
2 / AQ201 — POOL COVE
3/4" = 1'-0"



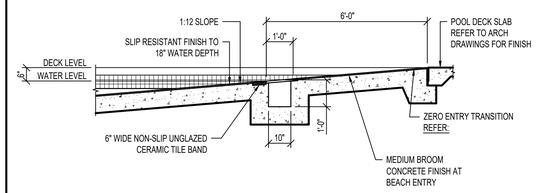
12 / AQ201 — WATER BASKETBALL GOAL
3/8" = 1'-0"



9 / AQ201 — CONTRASTING NOSING
6" = 1'-0"



6 / AQ201 — ENLARGED STAIR PLAN
3/8" = 1'-0"



3 / AQ201 — ZERO ENTRY SECTION
3/8" = 1'-0"

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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
2	03/09/2024	50% CD
3	03/22/2024	SITE PLAN APPLICATION 02

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

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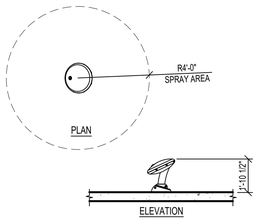
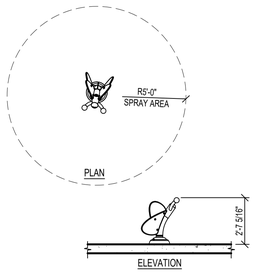
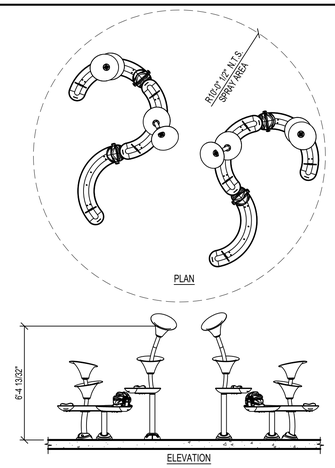


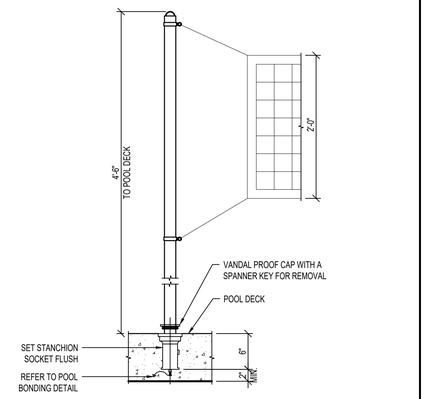
10 AQ202 WATERBUG NO 3
1/4" = 1'-0"



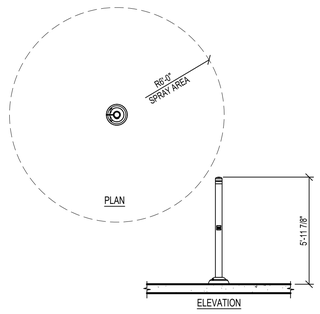
7 AQ202 BUTTERFLY NO 1
1/4" = 1'-0"



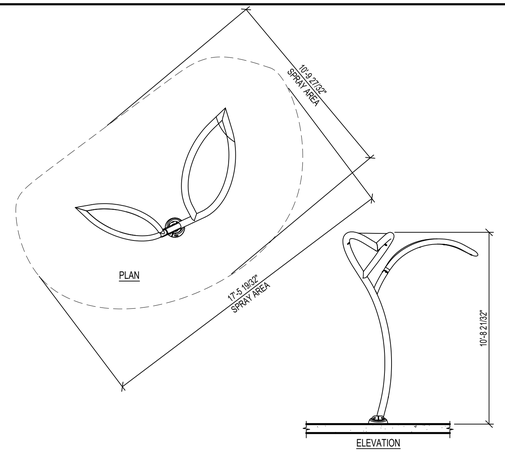
4 AQ202 CASCADE RAINFOREST
1/4" = 1'-0"



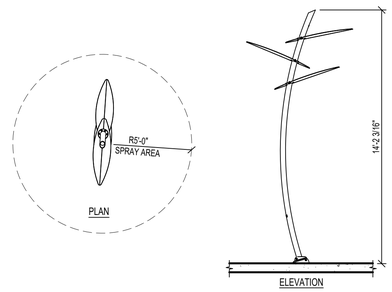
1 AQ202 WATER VOLLEYBALL STANCHION POST & ANCHOR
1 1/2" = 1'-0"



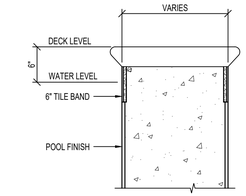
11 AQ202 AQUADOME NO 2
1/4" = 1'-0"



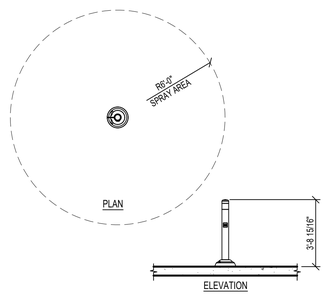
8 AQ202 LEAF NO 3
1/4" = 1'-0"



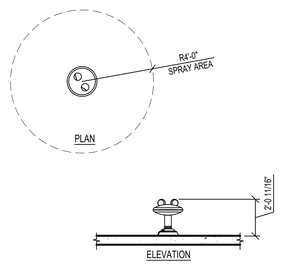
5 AQ202 BAMBOO TREE NO 1
1/4" = 1'-0"



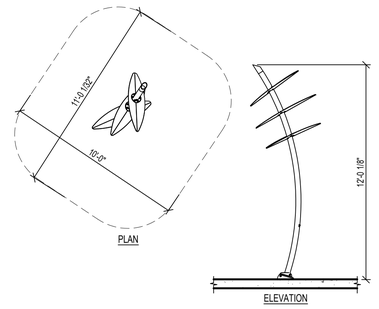
2 AQ202 CURRENT CHANNEL ISLAND
1" = 1'-0"



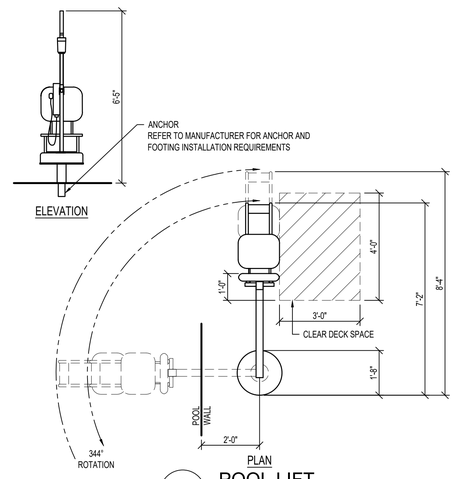
12 AQ202 AQUADOME NO 1
1/4" = 1'-0"



9 AQ202 FROG NO 1
1/4" = 1'-0"



6 AQ202 BAMBOO TREE NO 2
1/4" = 1'-0"



3 AQ202 POOL LIFT
3/8" = 1'-0"

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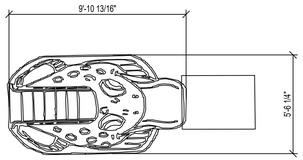
ELEVATION



PLAN

1 / AQ203 FROG SLIDE

1/4" = 1'-0"

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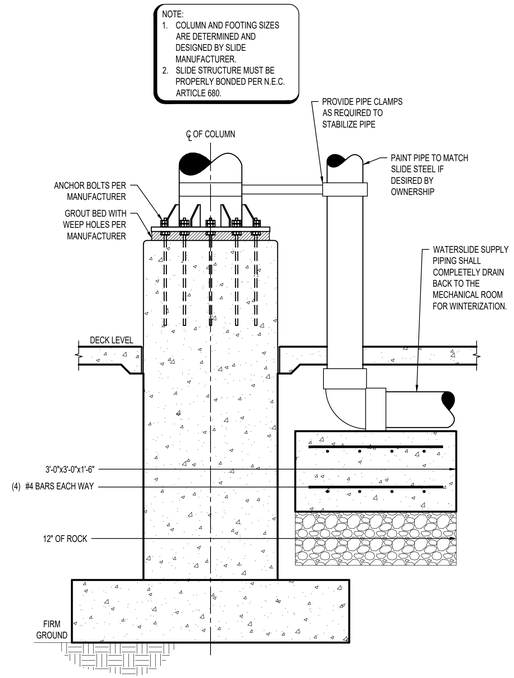
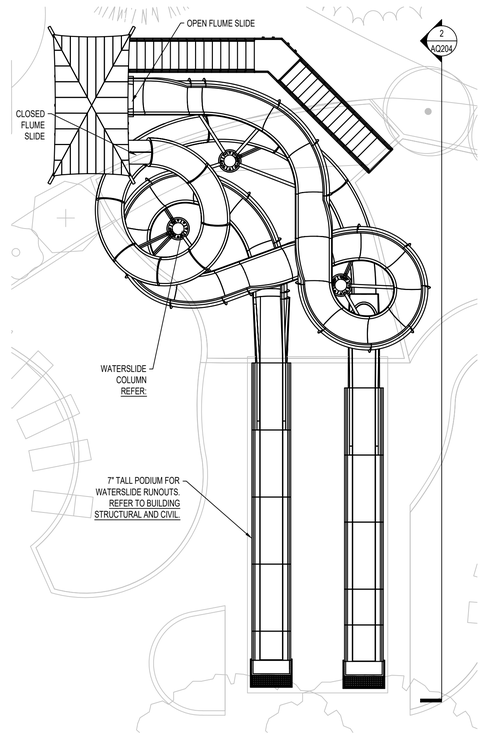


3 AQ204 WATERSLIDE COLUMN

3/4" = 1'-0"



1 AQ204 WATERSLIDE PLAN

1/8" = 1'-0"

WATERSLIDE DEFERRED APPROVAL NOTICE

INSTALLATION OF WATERSLIDE INCLUDING FOUNDATIONS AND TOWER MUST NOT COMMENCE UNTIL DETAILED PLANS, SPECIFICATIONS, AND COMPLETE ZONE 4 SEISMIC CALCULATIONS ARE APPROVED BY THE DEPARTMENT OF BUILDING AND SAFETY. THE RESPONSIBILITY FOR AND ALL COSTS ASSOCIATED WITH OBTAINING SUCH APPROVAL MUST BE BORNE BY THE CONTRACTOR AS PART OF THE GENERAL CONSTRUCTION CONTRACT.

WATERSLIDE DESIGN DATA

POOL	OPEN FLUME	CLOSED FLUME
PLATFORM HEIGHT	17'-6"	17'-6"
WATERSLIDE LENGTH	166.16'	125.89'
RUNOUT LENGTH	42'-3"	39'-7"

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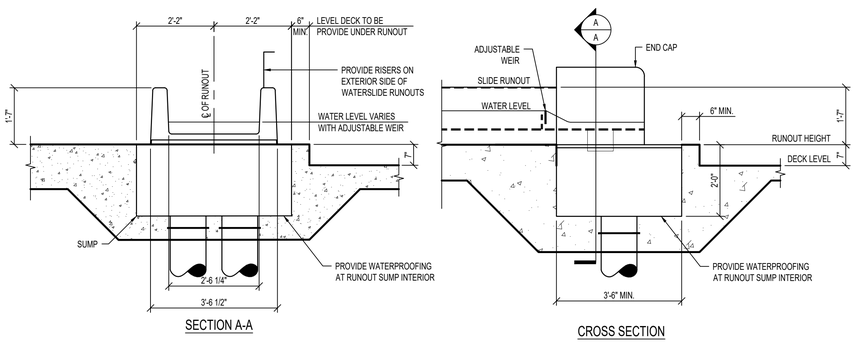
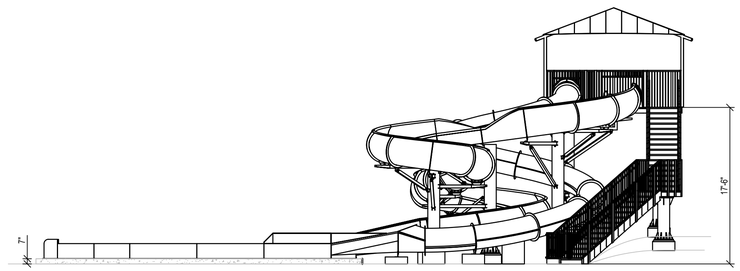
NOTE:
1. REFER TO WATERSLIDE MANUFACTURER SHOP DRAWINGS FOR FINAL CONFIGURATION AND DIMENSIONS
2. REFER TO BUILDING STRUCTURAL FOR DISCHARGE SUMP AND RUNOUT PLATFORM DESIGN.
3. CONTRACTOR TO PROVIDE GRATING OVER TOP OF SUMP.



4 AQ204 WATERSLIDE RUNOUT SECTIONS

1/2" = 1'-0"

NOTE:
1. OVERHEAD CLEARANCE TO BOTTOM OF WATERSLIDE AND WATERSLIDE STRUCTURE MUST BE MINIMUM 6'-8" OVER ALL DECK AREAS INTENDED FOR FOOT TRAFFIC.
2. WHERE WATERSLIDE TOWER AND FLUME STRUCTURES ARE LOCATED OVER WALKABLE PATHWAYS, A BARRIER MUST BE PROVIDED WHERE VERTICAL CLEARANCE IS LESS THAN 6'-8". REFER TO ARCHITECT.
3. DESIGN OF WATERSLIDE FOOTING, PIERS, ANCHORS AND SPACING MUST BE PROVIDED BY WATERSLIDE MANUFACTURER. CALCULATIONS AND SEALED DRAWINGS MUST BE PROVIDED.



2 AQ204 WATERSLIDE ELEVATION

1/8" = 1'-0"

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SHEET #:
AQ204

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PIPE SCHEDULE

ID	DESCRIPTION
P1	8" FROM M1 TO PP1
P2	8" FROM LAP POOL SKIMMERS TO PP1
P3	6" FROM PP1 TO F1
P4	6" FROM F1 TO LAP POOL RETURN INLETS
P5	X" FROM P4 TO H1
P6	X" FROM H1 TO P4
P7	2" FROM P4 TO SPHAGNUM MOSS TANK
P8	2" FROM SPHAGNUM MOSS TANK TO P4
P9	6" FROM F1 TO BACKWASH FUNNEL
P10	6" FROM L1 TO M1
P11	8" FROM M2 TO PP5
P12	8" FROM LEISURE POOL SKIMMERS TO PP5
P13	8" FROM PP5 TO F2
P14	8" FROM F2 TO LEISURE POOL RETURN INLETS
P15	4" FROM P14 TO H2
P16	4" FROM H2 TO P14
P17	2" FROM P14 TO SPHAGNUM MOSS TANK
P18	2" FROM SPHAGNUM MOSS TANK TO P14
P19	8" FROM M2 TO PP4
P20	8" FROM PP4 TO LEISURE POOL RIVER NOZZLES
P21	10" FROM M3 TO PP2
P22	8" FROM PP2 TO OPEN FLUME SLIDE
P23	8" FROM M3 TO PP3
P24	6" FROM M3 TO CLOSED FLUME SLIDE
P25	4" FROM M2 TO PP6
P26	1.5" FROM PP6 TO VALVE BOX 1
P27	6" FROM L2 TO M3
P28	6" FROM F2 TO BACKWASH FUNNEL
P29	2" FROM PP6 TO VALVE BOX 2
P30	2" FROM PP6 TO VALVE BOX 3
P31	1.5" FROM VALVE BOX 1 TO FROG SLIDE
P32	1.5" FROM VALVE BOX 1 TO BAMBOO TREE 1
P33	1.5" FROM VALVE BOX 1 TO BAMBOO TREE 2
P34	1.5" FROM VALVE BOX 1 TO LEAF NO 3
P35	1.5" FROM VALVE BOX 2 TO BUTTERLY NO 1
P36	1.5" FROM VALVE BOX 2 TO CASCADE RAINFOREST
P37	1.5" FROM VALVE BOX 2 TO CASCADE RAINFOREST
P38	1.5" FROM VALVE BOX 3 FROG NO 1
P39	1.5" FROM VALVE BOX AQUADOME NO 2
P40	1.5" FROM VALVE BOX AQUADOME NO 1
P41	1.5" FROM VALVE BOX WATER BUG NO 3
P42	4" FROM P3 TO BACKWASH FUNNEL
P43	4" FROM P13 TO BACKWASH FUNNEL

PIPING LEGEND

LEGEND	QTY.	ITEM	MAKE	MODEL
		LAP POOL		
	1	WALL INLET REFER:	HAYWARD	SP1421D & SP1022S
	18	FLOOR INLET REFER:	STA-RITE	8417-0200 (BLACK)
	1	SIGHT SUMP REFER:	POURALID	SQ201 PAL FROSTED
	1	WATER LEVEL CONTROLLER REFER:	AQUATICONTROL TECHNOLOGY	ELC-810-XX-DW-000
	12	SKIMMER REFER:	STA-RITE	U-3 #08650-1403 (WHITE)
	2	MAIN DRAIN REFER:	REFER TO MAIN DRAIN SCHEDULE	
		RECREATION POOL		
	2	WALL INLET REFER:	HAYWARD	SP1421D & SP1022S
	22	FLOOR INLET REFER:	STA-RITE	8417-0000 (WHITE)
	14	SKIMMER REFER:	STA-RITE	U-3 #08650-1403 (WHITE)
	4	MAIN DRAIN REFER:	REFER TO MAIN DRAIN SCHEDULE	
	2	CURRENT CHANNEL NOZZLE REFER:	FIELD FABRICATED	
	3	VALVE BOX REFER:	QUAZITE	PC2436BA18 & PC2436CA00
	2	TRENCH SUMP REFER:	FIELD FABRICATED	
	1	WATER LEVEL CONTROLLER REFER:	AQUATICONTROL TECHNOLOGY	ELC-810-XX-DW-000
	2	WATERSLIDE WALL GRATES	NEPTUNE BENSON	MLD-FG-1836
		COMBINED		
	N/A	BELOW GRADE PIPING	CHEMTROL	SCH 40 PVC, SCH 80 PVC

GENERAL PIPING NOTES

1. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERATIONAL PIPING SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
2. PIPE SIZES INDICATED ARE NOMINAL, I.P.S.
3. UNLESS OTHERWISE NOTED, ALL OVERHEAD PIPING MUST BE TIGHT TO UNDERSIDE OF STRUCTURE OR SLAB.
4. INSTALL ALL PIPING WITHOUT FORCING OR SPRINGING.
5. ALL PIPING WORK MUST BE COORDINATED WITH ALL TRADES AND SITE CONDITIONS. OFFSETS, EXPANSION LOOPS, OR TRANSITIONS IN PIPING AROUND OBSTRUCTIONS MUST BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
6. ALL PIPING INDICATED MUST BE CONSIDERED DIAGRAMMATIC.
7. ALL SWIMMING POOL PIPING ROUTED BELOW THE POOL SHELL MUST BE CONCRETE ENCASED SCHEDULE 40 PVC, UNLESS OTHERWISE NOTED. REFER:
8. ALL UNDERGROUND OR EXPOSED SWIMMING POOL PIPING MUST BE SCHEDULE 80 PVC, UNLESS OTHERWISE NOTED. CONTRACTOR MUST REFER TO PLANS AND SPECIFICATIONS FOR ANY SPECIFIC REQUIREMENTS REGARDING PLACEMENT AND BACKFILLING OF BELOW GRADE POOL PIPE.
9. ALL DIMENSIONS ARE INDICATED FROM THE FINISH WALL SURFACE AND DO NOT ACCOUNT FOR ANY VARIATIONS IN EITHER GRADE OR SLOPE DISTANCES.
10. THE CHEMICAL SENSOR LINE MUST BE A 3/4" TO 1" DIAMETER, SCHEDULE 80 PVC PIPE EXTENDED FROM THE WET CELL SENSOR TO ITS RESPECTIVE FILL FUNNEL AND THE BACKWASH CATCH BASIN OR PUMP SUCTION.
11. ALL FLOOR INLETS MUST BE ADJUSTED TO ACHIEVE AN EVEN FLOW DISTRIBUTION THROUGHOUT SYSTEMS.
12. ALL PIPE TEES MUST BE SIZED FOR LARGEST PIPE CONNECTION.

POOL PIPING WINTERIZATION

1. ALL POOL PIPING MUST HAVE THE CAPABILITY TO BE DRAINED FOR WINTERIZATION.
2. ALL POOL SUCTION AND GRAVITY PIPING MUST BE INSTALLED WITH A CONSTANT SLOPE TO THE MAIN DRAINS.
3. ALL POOL RETURN PIPING MUST HAVE THE ABILITY TO COMPLETELY DRAIN TO THE 2" WINTERIZATION LINE AS SHOWN ON THE DRAWINGS.
4. ALL POOL SUCTION AND RETURN PIPING MUST SLOPE BACK TO THE POOL MECHANICAL ROOM. A WINTERIZATION TAP AND VALVE MUST BE PROVIDED ON PIPING ALLOWING THE ABILITY FOR ALL PIPING TO BE COMPLETELY DRAINED.
5. BLOW OUT ALL PIPES BY MEANS OF AN AIR BLOWER AND A WINTERIZATION TAP. CAP ALL PIPES. FOR ADDED PROTECTION AGAINST FREEZING PIPES, THE PIPES CAN BE FILLED WITH RV ANTI-FREEZE. REFER:

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, 6,9,10
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, 6,9,10
PP6	RECREATION SPRAY FEATURE PUMP REFER:	PENTAIR WHISPERFLO XF	XFK-8	2.5"X2.5"	125	55	2	SELF - PRIMING	INTEGRAL	N/A	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 BALDOR RELIANCE TEFC 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.
10. A SINGLE SPARE RECIRUCLATION PUMP AND 25 HP 1750 RPM MOTOR SHALL BE PROVIDED THAT CAN BE USED AT EITHER POOL.

MAIN DRAIN SCHEDULE

ID	DESCRIPTION	SIZE	QTY	DESIGN FLOW (GPM)	DESIGN VELOCITY (FPS)	MFG ALLOWABLE FLOW @ COVER (GPM)	MODEL	MANUFACTURER	NOTES
M1	LAP POOL MAIN DRAINS	18"X18"	2						
M2	RECREATION POOL SPORTS AREA MAIN DRAINS	24"X48"	2						
M3	RECREATION POOL CURRENT CHANNEL MAIN DRAINS	24"X48"	2						
M4	OPEN FLUME WATERSLIDE RUNOUT DISCHARGE GRATE	18"X36"	1						
M5	CLOSED FLUME WATERSLIDE DISCHARGE GRATE	18"X36"	1						

NOTE:
1. MAIN DRAIN SUMP AND GRATE MUST BE MANUFACTURED BY PADDOCK OR APPROVED EQUAL.
2. MAXIMUM FACE VELOCITY MUST NOT EXCEED 1.5 FEET PER SECOND.
3. OPEN AREA IS BASED ON MANUFACTURER'S DATA.
4. THE INSTALLED LIFE OF THE MAIN DRAIN COVER MUST BE A MINIMUM OF 10 YEARS.
5. FASTEN MAIN DRAIN COVER TO SUMP WITH S/S TAMPER PROOF FASTENERS AT A SPACING NO GREATER THAN 24" O.C. REFER TO SUMP AND GRATE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
6. PROVIDE WATER BONDING FITTING IN MAIN DRAIN SUMP AT DEEPEST SECTION OF THE POOL. BASIS OF DESIGN: PERMA-CAST SWIMMING POOL PRODUCTS MODEL PB-SK-20.
7. PROVIDE HYDROSTATIC RELIEF VALVE IN EACH MAIN DRAIN. BASIS OF DESIGN: HAYWARD MODEL SP1056 & SP1055, AQUASTAR HVC101 OR APPROVED EQUAL.

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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
2	03/09/2024	50% CD
3	03/22/2024	SITE PLAN APPLICATION 02

SCALE: **AS NOTED**
ISSUE DATE: **MARCH 22, 2024**
PROJECT #: **23079**
TITLE: **POOL PIPING NOTES & SCHEDULES**

SHEET #:
AQ400

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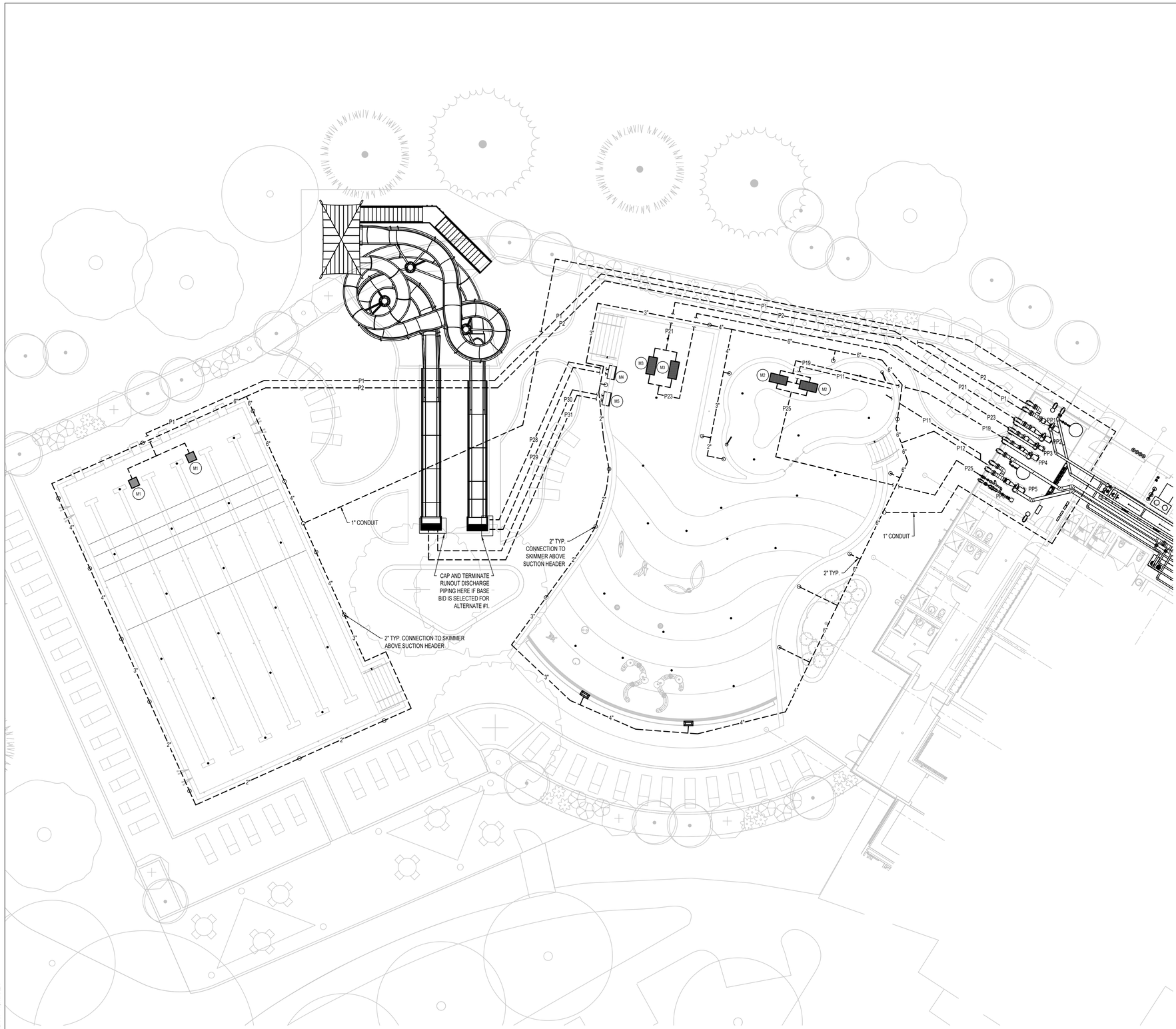

1 AQ401 POOL SUCTION PIPING PLAN

3/32" = 1'-0"

PIPE SCHEDULE

ID	DESCRIPTION
P1	8" FROM M1 TO PP1
P2	8" FROM LAP POOL SKIMMERS TO PP1
P3	6" FROM PP1 TO F1
P4	6" FROM F1 TO LAP POOL RETURN INLETS
P5	X" FROM P4 TO H1
P6	X" FROM H1 TO P4
P7	2" FROM P4 TO SPHAGNUM MOSS TANK
P8	2" FROM SPHAGNUM MOSS TANK TO P4
P9	6" FROM F1 TO BACKWASH FUNNEL
P10	6" FROM L1 TO M1
P11	8" FROM M2 TO PP5
P12	8" FROM LEISURE POOL SKIMMERS TO PP5
P13	8" FROM PP5 TO F2
P14	8" FROM F2 TO LEISURE POOL RETURN INLETS
P15	4" FROM P14 TO H2
P16	4" FROM H2 TO P14
P17	2" FROM P14 TO SPHAGNUM MOSS TANK
P18	2" FROM SPHAGNUM MOSS TANK TO P14
P19	8" FROM M2 TO PP4
P20	8" FROM PP4 TO LEISURE POOL RIVER NOZZLES
P21	10" FROM M3 TO PP2
P22	8" FROM PP2 TO OPEN FLUME SLIDE
P23	8" FROM M3 TO PP3
P24	6" FROM M3 TO CLOSED FLUME SLIDE
P25	4" FROM M2 TO PP6
P26	1.5" FROM PP6 TO VALVE BOX 1
P27	6" FROM L2 TO M3
P28	6" FROM F2 TO BACKWASH FUNNEL
P29	2" FROM PP6 TO VALVE BOX 2
P30	2" FROM PP6 TO VALVE BOX 3
P31	1.5" FROM VALVE BOX 1 TO FROG SLIDE
P32	1.5" FROM VALVE BOX 1 TO BAMBOO TREE 1
P33	1.5" FROM VALVE BOX 1 TO BAMBOO TREE 2
P34	1.5" FROM VALVE BOX 1 TO LEAF NO 3
P35	1.5" FROM VALVE BOX 2 TO BUTTERLY NO 1
P36	1.5" FROM VALVE BOX 2 TO CASCADE RAINFOREST
P37	1.5" FROM VALVE BOX 2 TO CASCADE RAINFOREST
P38	1.5" FROM VALVE BOX 3 FROG NO 1
P39	1.5" FROM VALVE BOX AQUADOME NO 2
P40	1.5" FROM VALVE BOX AQUADOME NO 1
P41	1.5" FROM VALVE BOX WATER BUG NO 3
P42	4" FROM P3 TO BACKWASH FUNNEL
P43	4" FROM P13 TO BACKWASH FUNNEL

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SCALE: **AS NOTED**
ISSUE DATE: **MARCH 22, 2024**
PROJECT #: **23079**
TITLE: **POOL SUCTION PIPING PLAN**

SHEET #:
AQ401

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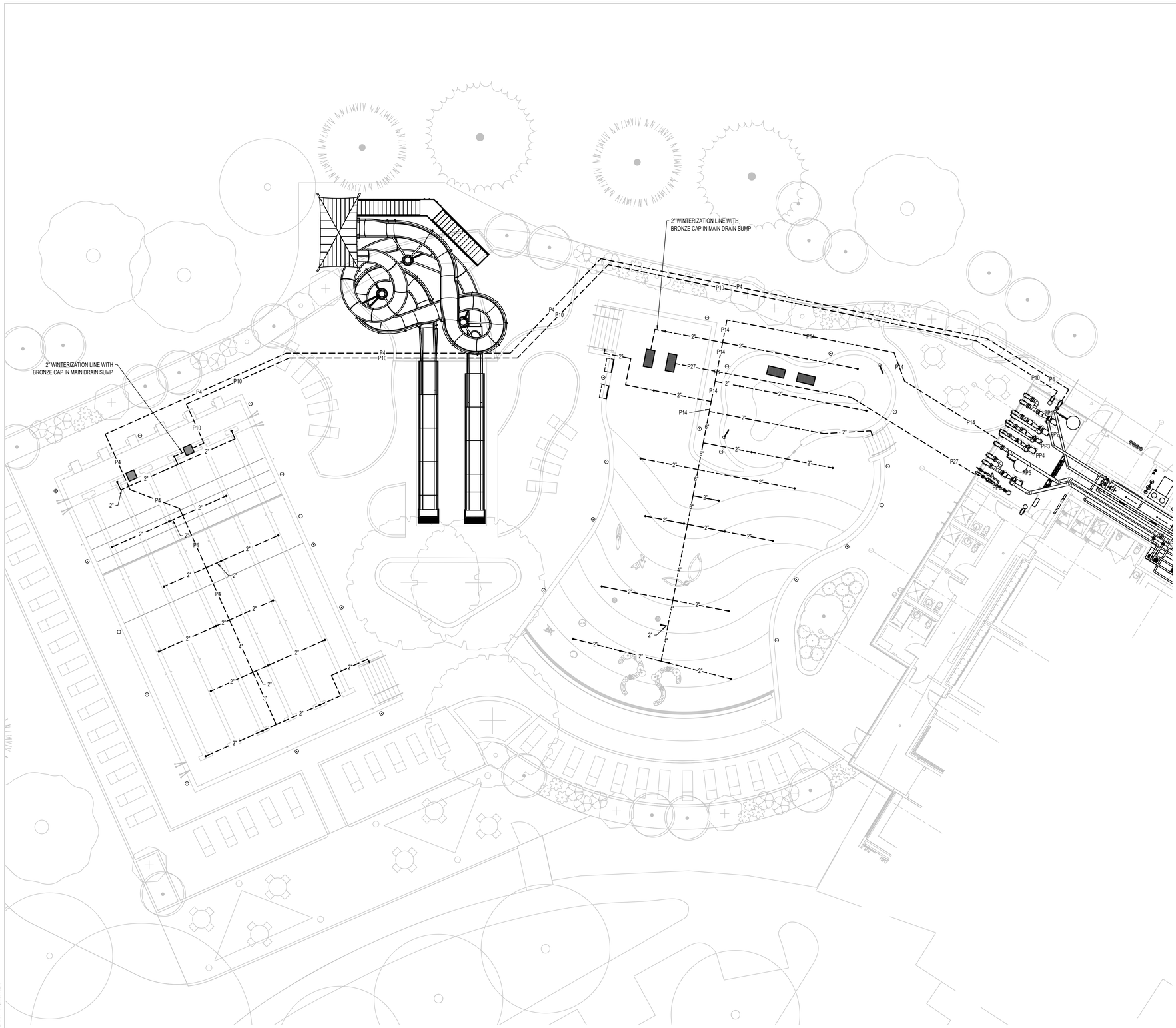

1 AQ401 POOL RETURN PIPING PLAN

3/32" = 1'-0"

PIPE SCHEDULE	
ID	DESCRIPTION
P1	8" FROM M1 TO PP1
P2	8" FROM LAP POOL SKIMMERS TO PP1
P3	6" FROM PP1 TO F1
P4	6" FROM F1 TO LAP POOL RETURN INLETS
P5	X" FROM P4 TO H1
P6	X" FROM H1 TO P4
P7	2" FROM P4 TO SPHAGNUM MOSS TANK
P8	2" FROM SPHAGNUM MOSS TANK TO P4
P9	6" FROM F1 TO BACKWASH FUNNEL
P10	6" FROM L1 TO M1
P11	8" FROM M2 TO PP5
P12	8" FROM LEISURE POOL SKIMMERS TO PP5
P13	8" FROM PP5 TO F2
P14	8" FROM F2 TO LEISURE POOL RETURN INLETS
P15	4" FROM P14 TO H2
P16	4" FROM H2 TO P14
P17	2" FROM P14 TO SPHAGNUM MOSS TANK
P18	2" FROM SPHAGNUM MOSS TANK TO P14
P19	8" FROM M2 TO PP4
P20	8" FROM PP4 TO LEISURE POOL RIVER NOZZLES
P21	10" FROM M3 TO PP2
P22	8" FROM PP2 TO OPEN FLUME SLIDE
P23	8" FROM M3 TO PP3
P24	6" FROM M3 TO CLOSED FLUME SLIDE
P25	4" FROM M2 TO PP6
P26	1.5" FROM PP6 TO VALVE BOX 1
P27	6" FROM L2 TO M3
P28	6" FROM F2 TO BACKWASH FUNNEL
P29	2" FROM PP6 TO VALVE BOX 2
P30	2" FROM PP6 TO VALVE BOX 3
P31	1.5" FROM VALVE BOX 1 TO FROG SLIDE
P32	1.5" FROM VALVE BOX 1 TO BAMBOO TREE 1
P33	1.5" FROM VALVE BOX 1 TO BAMBOO TREE 2
P34	1.5" FROM VALVE BOX 1 TO LEAF NO 3
P35	1.5" FROM VALVE BOX 2 TO BUTTERLY NO 1
P36	1.5" FROM VALVE BOX 2 TO CASCADE RAINFOREST
P37	1.5" FROM VALVE BOX 2 TO CASCADE RAINFOREST
P38	1.5" FROM VALVE BOX 3 FROG NO 1
P39	1.5" FROM VALVE BOX AQUADOME NO 2
P40	1.5" FROM VALVE BOX AQUADOME NO 1
P41	1.5" FROM VALVE BOX WATER BUG NO 3
P42	4" FROM P3 TO BACKWASH FUNNEL
P43	4" FROM P13 TO BACKWASH FUNNEL

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SCALE: **AS NOTED**
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PROJECT #: **23079**
TITLE: **POOL SUCTION PIPING PLAN**

SHEET #:
AQ402

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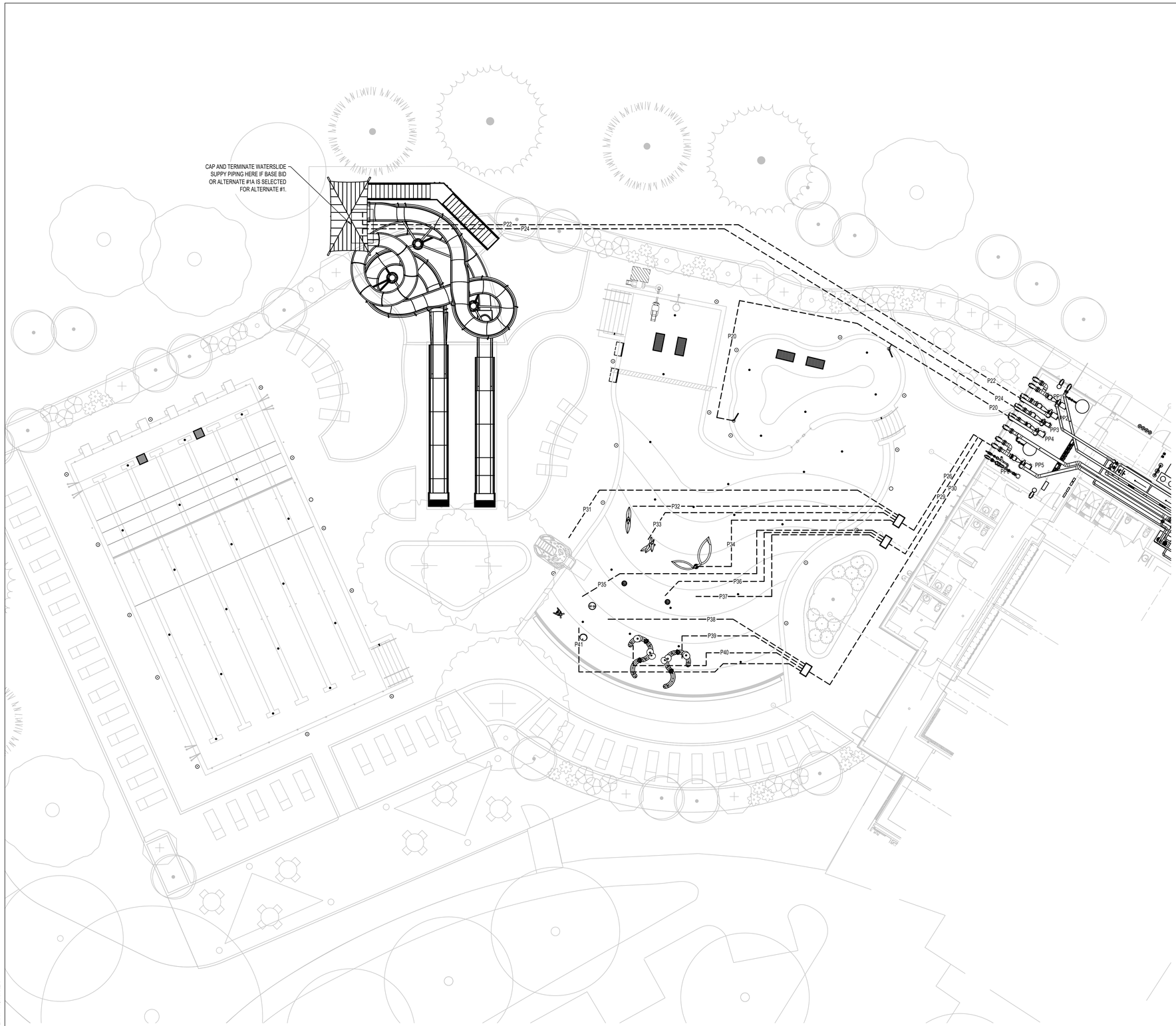

1 AQ403 POOL FEATURE RETURN PIPING PLAN

3/32" = 1'-0"

PIPE SCHEDULE

ID	DESCRIPTION
P1	8" FROM M1 TO PP1
P2	8" FROM LAP POOL SKIMMERS TO PP1
P3	6" FROM PP1 TO F1
P4	6" FROM F1 TO LAP POOL RETURN INLETS
P5	X" FROM P4 TO H1
P6	X" FROM H1 TO P4
P7	2" FROM P4 TO SPHAGNUM MOSS TANK
P8	2" FROM SPHAGNUM MOSS TANK TO P4
P9	6" FROM F1 TO BACKWASH FUNNEL
P10	6" FROM L1 TO M1
P11	8" FROM M2 TO PP5
P12	8" FROM LEISURE POOL SKIMMERS TO PP5
P13	8" FROM PP5 TO F2
P14	8" FROM F2 TO LEISURE POOL RETURN INLETS
P15	4" FROM P14 TO H2
P16	4" FROM H2 TO P14
P17	2" FROM P14 TO SPHAGNUM MOSS TANK
P18	2" FROM SPHAGNUM MOSS TANK TO P14
P19	8" FROM M2 TO PP4
P20	8" FROM PP4 TO LEISURE POOL RIVER NOZZLES
P21	10" FROM M3 TO PP2
P22	8" FROM PP2 TO OPEN FLUME SLIDE
P23	8" FROM M3 TO PP3
P24	6" FROM M3 TO CLOSED FLUME SLIDE
P25	4" FROM M2 TO PP6
P26	1.5" FROM PP6 TO VALVE BOX 1
P27	6" FROM L2 TO M3
P28	6" FROM F2 TO BACKWASH FUNNEL
P29	2" FROM PP6 TO VALVE BOX 2
P30	2" FROM PP6 TO VALVE BOX 3
P31	1.5" FROM VALVE BOX 1 TO FROG SLIDE
P32	1.5" FROM VALVE BOX 1 TO BAMBOO TREE 1
P33	1.5" FROM VALVE BOX 1 TO BAMBOO TREE 2
P34	1.5" FROM VALVE BOX 1 TO LEAF NO 3
P35	1.5" FROM VALVE BOX 2 TO BUTTERLY NO 1
P36	1.5" FROM VALVE BOX 2 TO CASCADE RAINFOREST
P37	1.5" FROM VALVE BOX 2 TO CASCADE RAINFOREST
P38	1.5" FROM VALVE BOX 3 FROG NO 1
P39	1.5" FROM VALVE BOX AQUADOME NO 2
P40	1.5" FROM VALVE BOX AQUADOME NO 1
P41	1.5" FROM VALVE BOX WATER BUG NO 3
P42	4" FROM P3 TO BACKWASH FUNNEL
P43	4" FROM P13 TO BACKWASH FUNNEL

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TITLE: **POOL FEATURE RETURN PIPING PLAN**

SHEET #:
AQ403

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BACKWASH FUNNEL SCHEDULE

ID	POOL	FILTER DISCHARGE RATE GPM (MIN.)	BACKWASH FUNNEL SIZE	SANITARY CONNECTION
B1	LAP	360		8"
B2	RECREATION	450		8"

NOTE:
REFER: XXXXX

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, 6,9,10
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, 6,9,10
PP6	RECREATION SPRAY FEATURE PUMP REFER:	PENTAIR WHISPERFLO XF	XFK-8	2.5"X2.5"	125	55	2	SELF - PRIMING	INTEGRAL	N/A	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 BALDOR RELIANCE TEFC 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.
10. A SINGLE SPARE RECIRUCLATION PUMP AND 25 HP 1750 RPM MOTOR SHALL BE PROVIDED THAT CAN BE USED AT EITHER POOL.

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	BECSYSCO2	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	BECSYSCO2	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: XXXXX

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 40MJ/CM2 (GPM)	LAMPS	AMPS (A)	VOLTAGE (V) WITH BREAKER SIZE (50 OR 60 HZ)
U1	RECREATION	SAG-240-APVC-CR	133	2	2.4	120 V (1Φ)-10A

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

GENERAL POOL MECHANICAL ROOM NOTES

1. 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.
2. PROVIDE HOSE BIBBS FOR HOUSE CLEANING PURPOSES. REFER BUILDING MECHANICAL DRAWINGS.
3. VENTILATION OF POOL MECHANICAL ROOM AND CHEMICAL STORAGE AREAS PER LOCAL, STATE AND INTERNATIONAL MECHANICAL CODE MINIMUM. REFER TO MECHANICAL.
4. 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.
5. REFER TO MECHANICAL FOR HVAC SYSTEMS DESIGN.
6. REFER TO ARCHITECTURAL DRAWINGS FOR LADDER RUNGS, SAFETY CHAIN, AND REMOVABLE RAILING AT PUMP PIT.

PIPING AND VALVING

1. MINIMUM 7'-0" CLEARANCE BENEATH ALL OVERHEAD PIPING.
2. PROVIDE AND SUPPORT OVERHEAD AND VERTICAL PIPING PER SPECIFICATION REQUIREMENTS.
3. LABEL AND IDENTIFY ALL PIPING IN COMPLIANCE WITH THE SPECIFICATIONS.
4. 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.
5. HYDROSTATICALLY TEST ALL PIPING AT 50 PSI FOR TWO HOURS AND MAINTAIN A PRESSURE OF 20 PSI IN ALL PIPING THROUGHOUT CONSTRUCTION. SECURE ALL FIXTURES PER SPECIFICATION REQUIREMENTS BEFORE HYDROSTATIC TEST.
6. REFER TO DETAILS X.X ON DRAWING AQX.X FOR INSTALLATION OF PIPE SUPPORTS.
7. ALL VALVE HARDWARE MUST BE 316L STAINLESS STEEL AND MEET ANSI HARDWARE INSTALLATION GUIDELINES. REFER:
4. ALL BALANCING VALVES AND BUTTERFLY VALVES MUST BE PROVIDED WITH POSITION INDICATORS AND MAXIMUM ADJUSTABLE STOPS (MEMORY STOPS).
5. 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.
6. 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.
7. 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

1. CHEMICAL FEED REQUIREMENTS - REFER TO THE POOL SYSTEMS SCHEMATIC(S) ON AQ-.-
2. INTERLOCK POOL RECIRCULATION PUMP(S) WITH ITS CORRESPONDING WATER CHEMISTRY CONTROLLER, CHEMICAL FEED PUMP(S) AND HEATER(S).
3. PROVIDE SIGNAGE ON CHEMICAL ROOM DOORS IN COMPLIANCE WITH THE STATE FIRE CODE. REFER:
4. 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.
5. WATER CHEMISTRY CONTROLLERS MUST CONTROL THE SANITIZING SYSTEM AND PH CONTROL SYSTEM AND SHUT THEM DOWN UPON LOSS OF SAMPLE STREAM FLOW.
6. 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.
7. PROVIDE ETHERNET CONNECTION FOR REMOTE ACCESS TO ALL WATER CHEMISTRY CONTROLLERS. REFER TO ELECTRICAL AND/OR CONTROLS CONSULTANT.
8. 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

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

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"	120 120	1 1	60 60	30A 20A
H2	RECREATION	LOCHINVAR	CPN1262	2	85	2,520	12"	2.5"	12"	120 120	1 1	60 60	30A 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: XXXXX
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.

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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
2	03/09/2024	50% CD
3	03/22/2024	SITE PLAN APPLICATION 02

SCALE: **AS NOTED**
ISSUE DATE: **MARCH 22, 2024**
PROJECT #: **23079**
TITLE: **POOL MECHANICAL ROOM NOTES & SCHEDULES**

SHEET #:
AQ500

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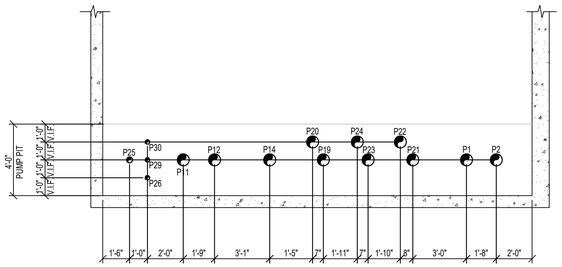
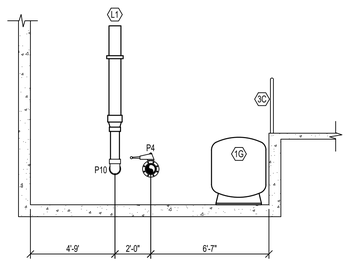


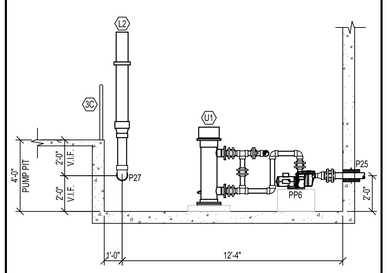
2 AQ501 POOL MECHANICAL SECTION

1/4" = 1'-0"



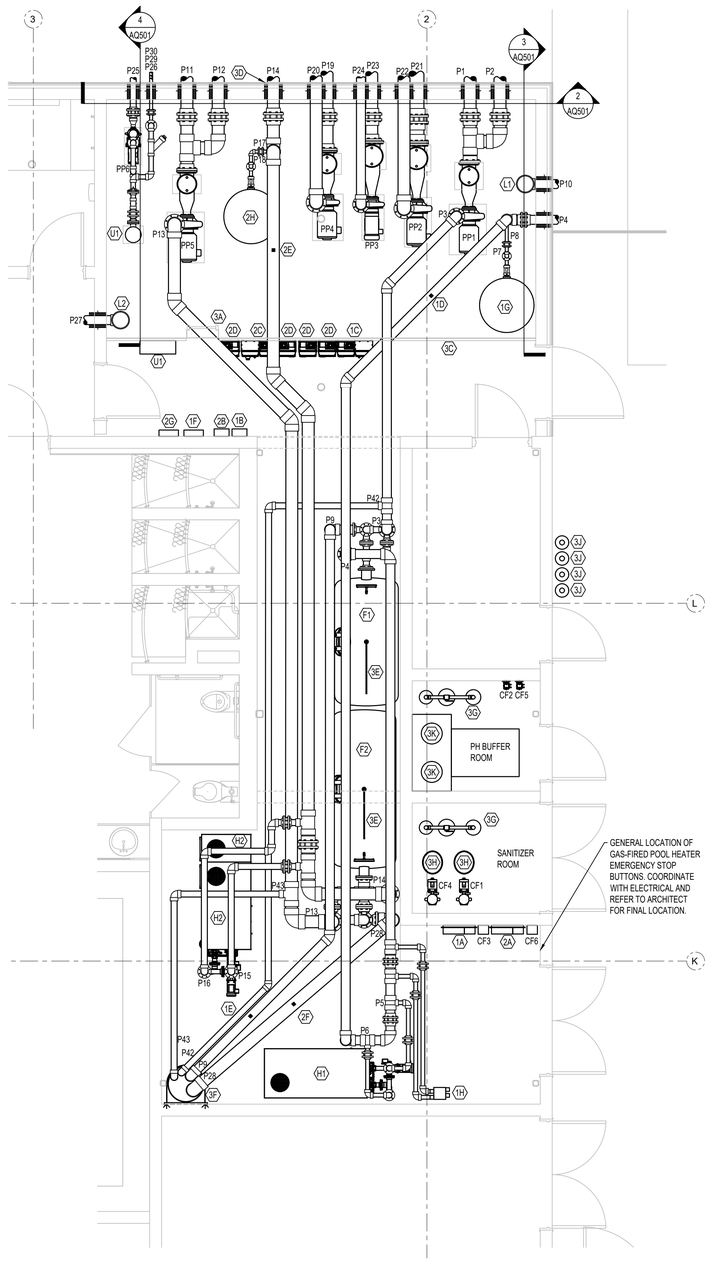
3 AQ501 POOL MECHANICAL SECTION

1/4" = 1'-0"



4 AQ501 POOL MECHANICAL SECTION

1/4" = 1'-0"



1 AQ501 POOL MECHANICAL ROOM

1/4" = 1'-0"

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	RE-USED EXISTING HEAT EXCHANGER (REFER TO MECHANICAL) 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:
	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:

PIPE SCHEDULE

ID	DESCRIPTION
P1	8" FROM M1 TO PP1
P2	8" FROM LAP POOL SKIMMERS TO PP1
P3	6" FROM PP1 TO F1
P4	6" FROM F1 TO LAP POOL RETURN INLETS
P5	X" FROM P4 TO H1
P6	X" FROM H1 TO P4
P7	2" FROM P4 TO SPHAGNUM MOSS TANK
P8	2" FROM SPHAGNUM MOSS TANK TO P4
P9	6" FROM F1 TO BACKWASH FUNNEL
P10	6" FROM L1 TO M1
P11	8" FROM M2 TO PP5
P12	8" FROM LEISURE POOL SKIMMERS TO PP5
P13	8" FROM PP5 TO F2
P14	8" FROM F2 TO LEISURE POOL RETURN INLETS
P15	4" FROM P14 TO H2
P16	4" FROM H2 TO P14
P17	2" FROM P14 TO SPHAGNUM MOSS TANK
P18	2" FROM SPHAGNUM MOSS TANK TO P14
P19	8" FROM M2 TO PP4
P20	8" FROM PP4 TO LEISURE POOL RIVER NOZZLES
P21	10" FROM M3 TO PP2
P22	8" FROM PP2 TO OPEN FLUME SLIDE
P23	8" FROM M3 TO PP3
P24	6" FROM M3 TO CLOSED FLUME SLIDE
P25	4" FROM M2 TO PP6
P26	1.5" FROM PP6 TO VALVE BOX 1
P27	6" FROM L2 TO M3
P28	6" FROM F2 TO BACKWASH FUNNEL
P29	2" FROM PP6 TO VALVE BOX 2
P30	2" FROM PP6 TO VALVE BOX 3
P31	1.5" FROM VALVE BOX 1 TO FROG SLIDE
P32	1.5" FROM VALVE BOX 1 TO BAMBOO TREE 1
P33	1.5" FROM VALVE BOX 1 TO BAMBOO TREE 2
P34	1.5" FROM VALVE BOX 1 TO LEAF NO 3
P35	1.5" FROM VALVE BOX 2 TO BUTTERLY NO 1
P36	1.5" FROM VALVE BOX 2 TO CASCADE RAINFOREST
P37	1.5" FROM VALVE BOX 2 TO CASCADE RAINFOREST
P38	1.5" FROM VALVE BOX 3 FROG NO 1
P39	1.5" FROM VALVE BOX AQUADOME NO 2
P40	1.5" FROM VALVE BOX AQUADOME NO 1
P41	1.5" FROM VALVE BOX WATER BUG NO 3
P42	4" FROM P3 TO BACKWASH FUNNEL
P43	4" FROM P13 TO BACKWASH FUNNEL

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

SHEET #:
AQ501

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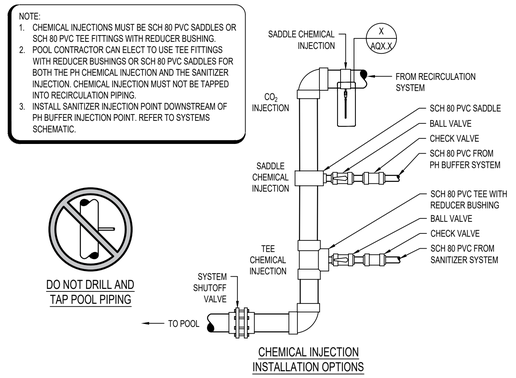
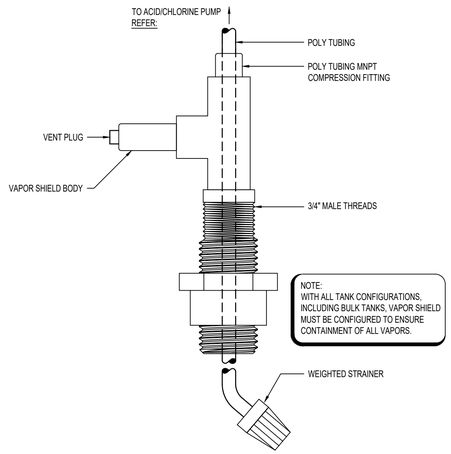
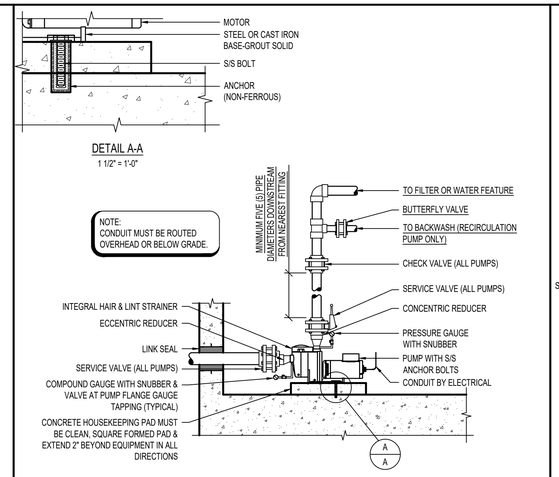


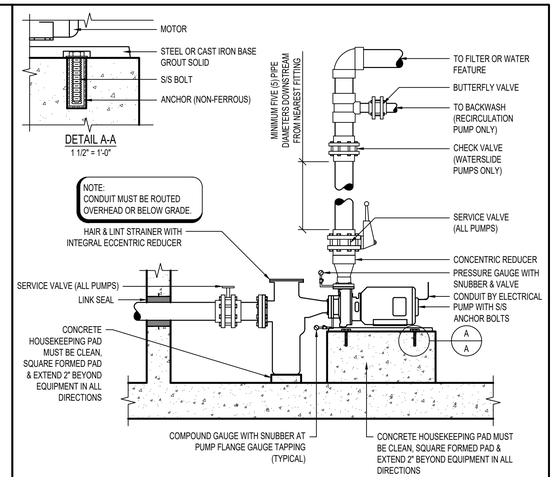
9 AQ502 CHEMICAL INJECTION
1/2" = 1'-0"



6 AQ502 CHEMICAL VENT PIPING
6" = 1'-0"



3 AQ502 FEATURE PUMP DETAIL
1/2" = 1'-0"



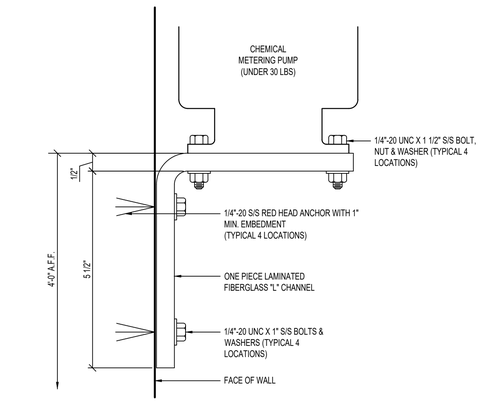
1 AQ502 TYPICAL PUMP DETAIL
1/2" = 1'-0"

RATING EXPLANATION GUIDE

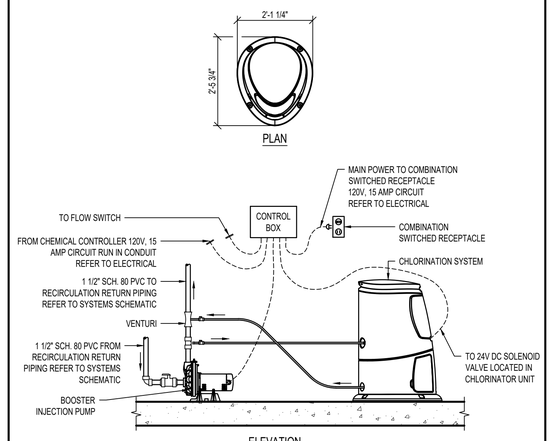
RATING	HEALTH HAZARD	FLAMMABILITY HAZARD	INSTABILITY HAZARD
4	CAN BE LETHAL	BELOW 73 DEGREES F	MAY EXPLODE AT NORMAL TEMPERATURES & PRESSURES
3	CAN CAUSE SERIOUS OR PERMANENT INJURY	ABOVE 73 DEGREES, BELOW 100 DEGREES F	MAY EXPLODE AT HIGH TEMPERATURE OR SHOCK
2	CAN CAUSE TEMPORARY INCAPACITATION OR RESIDUAL INJURY	ABOVE 100 DEGREES F, BELOW 200 DEGREES F	VIOLENT CHEMICAL CHANGE AT HIGH TEMPERATURES OR PRESSURES
1	CAN CAUSE SIGNIFICANT IRRITATION	ABOVE 200 DEGREES F	NORMALLY STABLE. HIGH TEMPERATURES MAKE UNSTABLE
0	NO HAZARD	WILL NOT BURN	STABLE

CONFIRM SIGNAGE WITH LOCAL FIRE MARSHAL AND/OR BUILDING CODES PRIOR TO INSTALLATION.

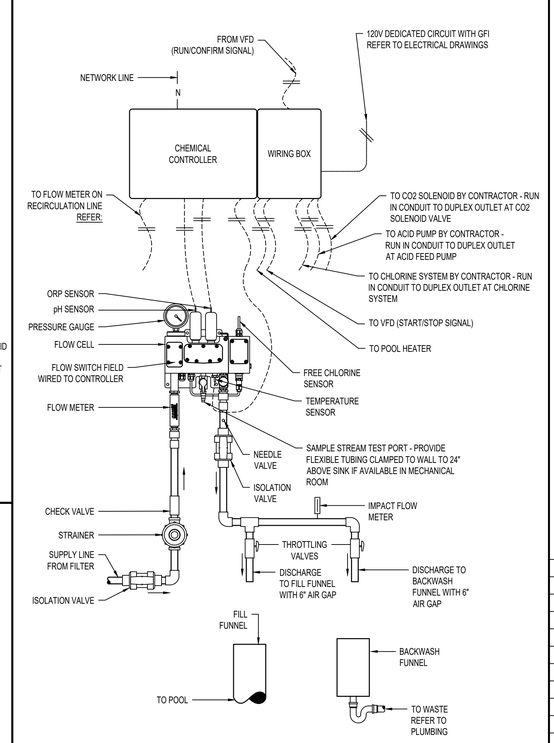
10 AQ502 HAZARD SIGNAGE
NTS



7 AQ502 CHEMICAL PUMP SHELF
6" = 1'-0"

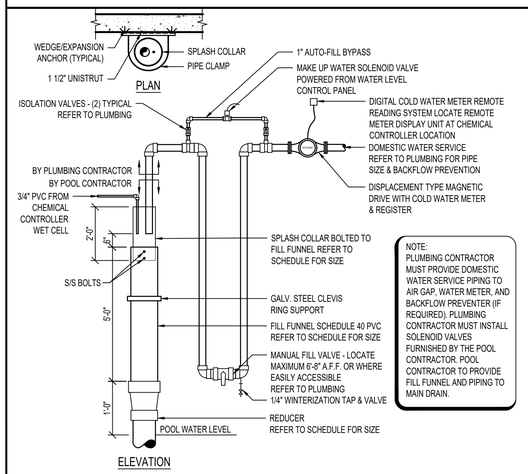


4 AQ502 CHLORINATION SYSTEM
1/2" = 1'-0"

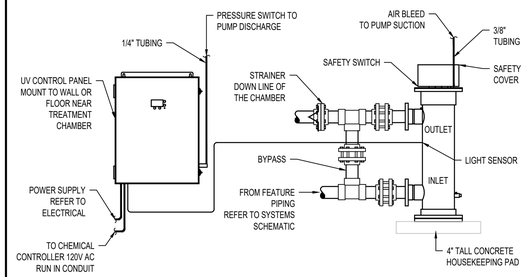


NOTES:
1. INTERLOCK WITH RECIRCULATION PUMP OCCURS INSIDE THE WIRING BOX ON BECS CONTROLLERS. CONTRACTOR TO PROVIDE FIELD WIRE INTERLOCK EXTERNAL TO THE CONTROLLER IF A BECS CONTROLLER IS NOT USED.
2. DRAWING IS FOR REFERENCE ONLY. REFER TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
3. PIPE RUN FROM RECIRCULATION PIPE TO SAMPLE CELL TO BE 50 FEET OR LESS.
4. SAMPLE FEED PIPING TO/FROM THE RECIRCULATION SYSTEM TO THE WATER CHEMISTRY CONTROLLER MUST BE SADDLED OR TEED. NO TAPPING OR DRILLING INTO THE PIPING WILL BE ALLOWED.
5. PROVIDE ETHERNET CONNECTION FOR REMOTE ACCESS TO ALL WATER CHEMISTRY CONTROLLERS. REFER TO ELECTRICAL AND/OR CONTROLS CONSULTANT.

2 AQ502 CHEMICAL CONTROLLER
NTS

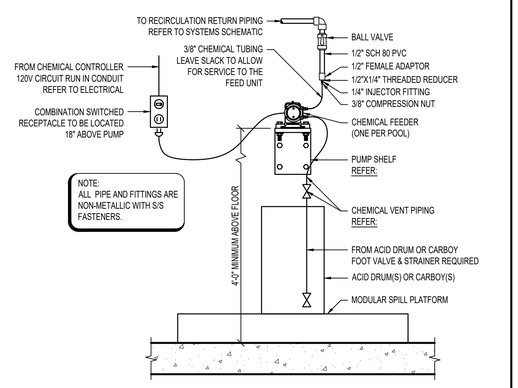


11 AQ502 FILL FUNNEL
3/8" = 1'-0"



NOTE:
1. ALL PIPING IN UV BYPASS LOOP MUST BE SCHEDULE 80 PIPING.
2. INFLUENT AND EFFLUENT FLOW VARIABLE ON CHAMBER ORIENTATION.
3. REFER TO POOL PIPING AND MECHANICAL ROOM DRAWINGS FOR PIPE SIZES.
4. INSTALL CHAMBER AND CABINET IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION(S).
5. REFER TO MANUFACTURER FOR POWER CONNECTIONS FROM CHAMBER TO CONTROL CABINET.
6. PROVIDE CLEARANCE PER MANUFACTURER'S RECOMMENDATION TO REMOVE UV LAMPS.
7. REFER TO DETAIL XXXXX FOR UV BYPASS CONNECTION.

8 AQ502 UV TREATMENT SYSTEM
1/2" = 1'-0"



NOTE:
ALL PIPE AND FITTINGS ARE NON-METALLIC WITH S/S FASTENERS.

5 AQ502 ACID SYSTEM
3/4" = 1'-0"

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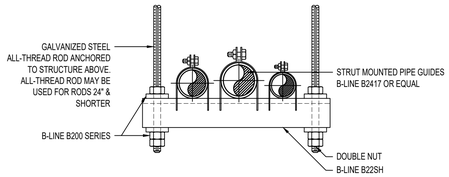
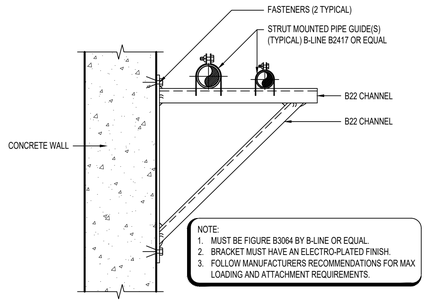
SCALE: **AS NOTED**
ISSUE DATE: **MARCH 22, 2024**
PROJECT #: **23079**
TITLE: **POOL MECHANICAL DETAILS**

SHEET #:
AQ502



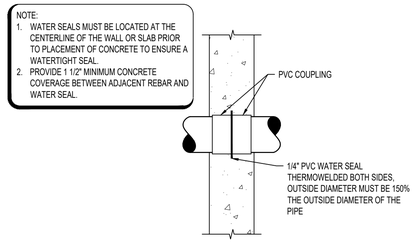
NOTE:
1. COOPER B-LINE (BASIS OF DESIGN) ALTERNATE MANUFACTURERS UNISTRUT OR PRE APPROVED EQUAL.
2. REFER TO THE PROJECT MANUAL FOR FINISH REQUIREMENT.
3. CONTRACTOR MUST FOLLOW ALL RECOMMENDATIONS FROM MANUFACTURER.

10 AQ503 TRAPEZE HANGER
3" = 1'-0"



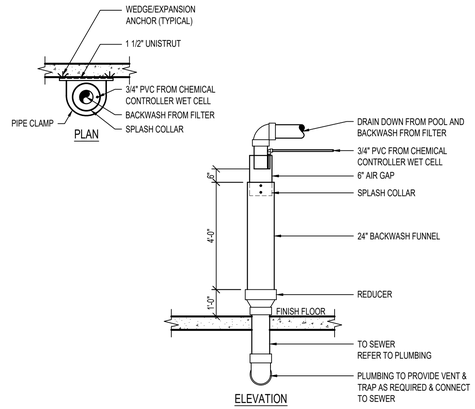
NOTE:
1. MUST BE FIGURE B3064 BY B-LINE OR EQUAL.
2. BRACKET MUST HAVE AN ELECTRO-PLATED FINISH.
3. FOLLOW MANUFACTURERS RECOMMENDATIONS FOR MAX LOADING AND ATTACHMENT REQUIREMENTS.

7 AQ503 ADJUSTABLE STRUT BRACKET
3" = 1'-0"

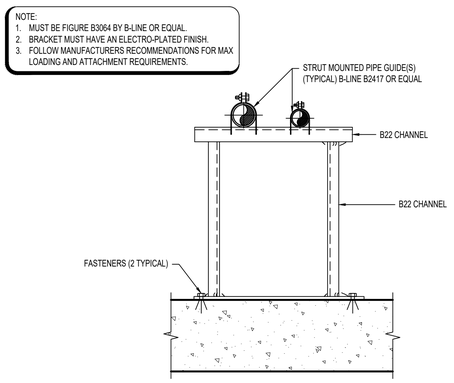


NOTE:
1. WATER SEALS MUST BE LOCATED AT THE CENTERLINE OF THE WALL OR SLAB PRIOR TO PLACEMENT OF CONCRETE TO ENSURE A WATERTIGHT SEAL.
2. PROVIDE 1 1/2" MINIMUM CONCRETE COVERAGE BETWEEN ADJACENT REBAR AND WATER SEAL.

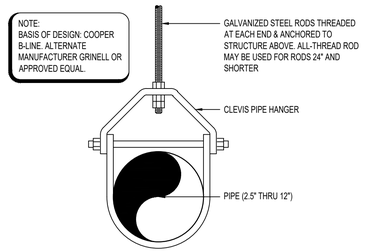
4 AQ503 WATER SEAL
1" = 1'-0"



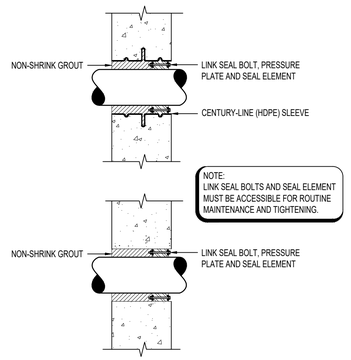
1 AQ503 BACKWASH FUNNEL
3/8" = 1'-0"



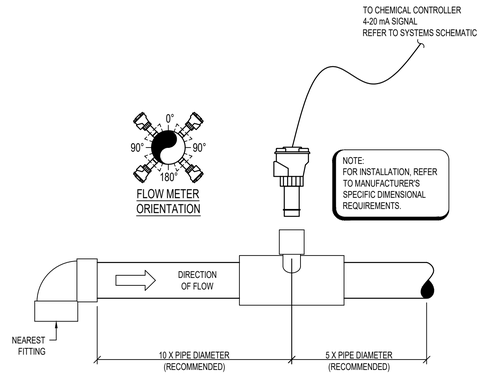
11 AQ503 FLOOR MOUNTED ADJUSTABLE STRUT BRACKET
3" = 1'-0"



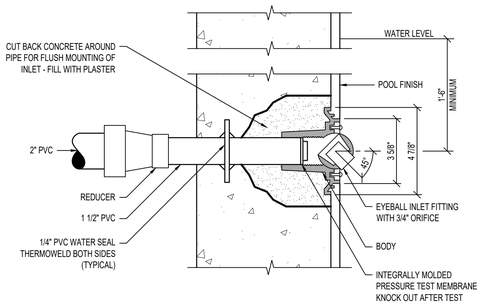
8 AQ503 CLEVIS PIPE HANGER
1 1/2" = 1'-0"



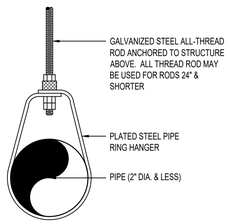
5 AQ503 LINK SEAL
3/4" = 1'-0"



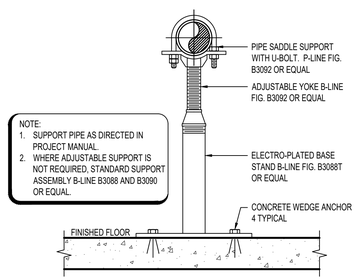
2 AQ503 FLOW METER SENSOR
3/4" = 1'-0"



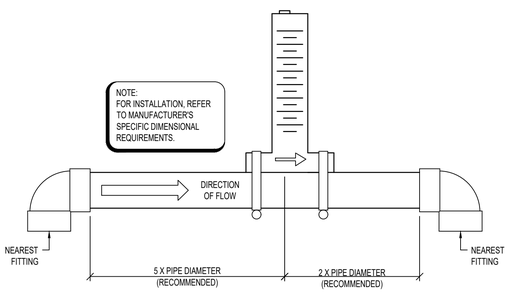
12 AQ503 WALL INLET
3" = 1'-0"



9 AQ503 SWIVEL RING PIPE HANGER
1 1/2" = 1'-0"



6 AQ503 FLOOR MOUNTED PIPE SUPPORT
3" = 1'-0"



3 AQ503 IMPACT FLOW METER
3/4" = 1'-0"

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Mountain Recreation Eagle Pool

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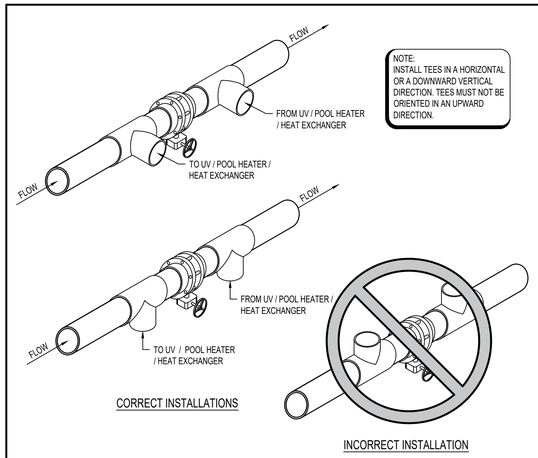
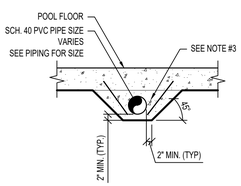
SHEET #:
AQ503



NOTE:
INSTALL TEES IN A HORIZONTAL OR A DOWNWARD VERTICAL DIRECTION. TEES MUST NOT BE ORIENTED IN AN UPWARD DIRECTION.

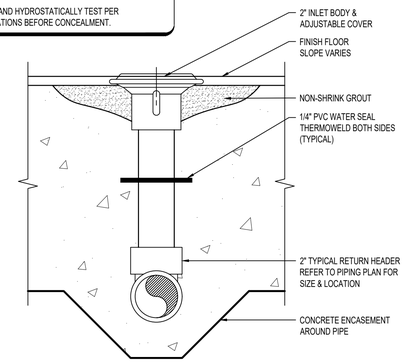
9 / AQ504 PIPING BYPASS
1/2" = 1'-0"



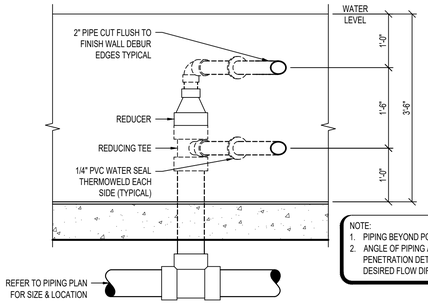
NOTE:
1. THIS IS A MINIMUM ENCASEMENT FOR UNDER POOL PIPING.
2. REFER TO STRUCTURAL FOR ADDITIONAL DETAIL.
3. ENCASEMENT MAY BE DONE PRIOR TO THE POUR OF THE POOL FLOOR AND STRUCTURALLY TIED TO THE POOL FLOOR.
4. ALL POOL PIPING NOT LOCATED BENEATH THE POOL FLOOR MUST BE SCHEDULE 80 PVC.

6 / AQ504 CONCRETE ENCASED PIPE
1/2" = 1'-0"

NOTE:
1. SET INLET FLUSH WITH FINISH POOL FLOOR. WHERE POOL FLOOR IS ON A SLOPE, PIPING MUST BE STUBBED UP AND INSTALLED PERPENDICULAR TO THE FACE OF THE POOL FLOOR. DO NOT LOCATE FLOOR INLETS AT A CHANGE IN SLOPE.
2. CAP PIPE AND HYDROSTATICALLY TEST PER SPECIFICATIONS BEFORE CONCEALMENT.

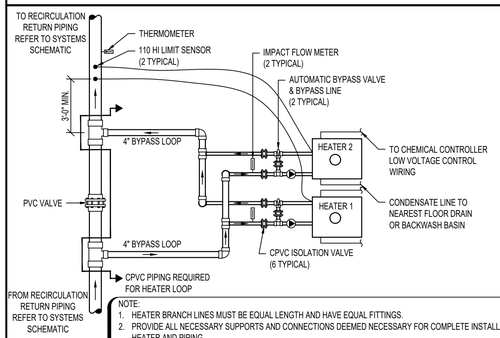


3 / AQ504 FLOOR INLET
3" = 1'-0"



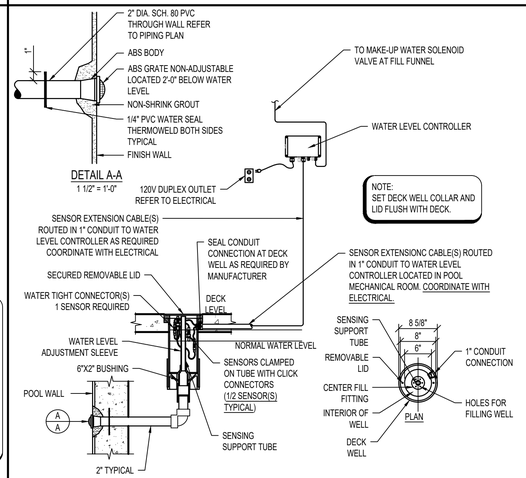
NOTE:
1. PIPING BEYOND POOL WALL.
2. ANGLE OF PIPING AND OF WALL PENETRATION DETERMINED BY DESIRED FLOW DIRECTION.

1 / AQ504 CURRENT CHANNEL NOZZLE
3/4" = 1'-0"



NOTE:
1. HEATER BRANCH LINES MUST BE EQUAL LENGTH AND HAVE EQUAL FITTINGS.
2. PROVIDE ALL NECESSARY SUPPORTS AND CONNECTIONS DEEMED NECESSARY FOR COMPLETE INSTALLATION OF HEATER AND PIPING.
3. VERIFY ALL DIMENSIONS AND LOCATIONS ON SITE PRIOR TO INSTALLATION.
4. POOL HEATER MUST BE WITHIN 15'-0" OF POOL RECIRCULATION LINE.
5. HI LIMIT SENSOR TO BE INSTALLED A MINIMUM OF 3'-0" DOWNSTREAM FROM HEATER CONNECTION.
6. INSTALL PER MANUFACTURER RECOMMENDATIONS.
7. INSTALL FLOW METER IN STRAIGHT PIPE WITH TEN PIPE DIAMETERS PRIOR AND FIVE PIPE DIAMETERS AFTER FLOW METER.
8. HEATER AIR INTAKE, VENTING, AND GAS LINE MUST BE BY MECHANICAL. ELECTRICAL CONNECTIONS MUST BE BY ELECTRICAL. REFER TO HEATER SCHEDULE FOR MINIMUM REQUIREMENTS.
9. REFER TO DETAIL XXXXX FOR HEATER BYPASS CONNECTION.
10. LOW VOLTAGE CONNECTION REQUIRED BETWEEN HEATERS FOR CASCADE OPERATION

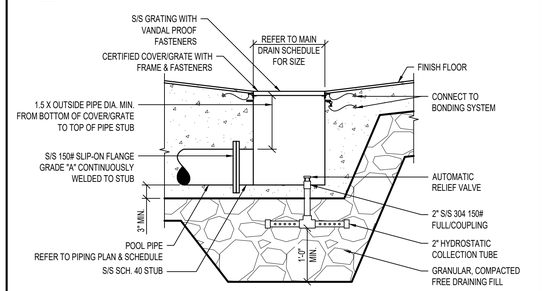
10 / AQ504 RECREATION POOL HEATER PIPING
NTS



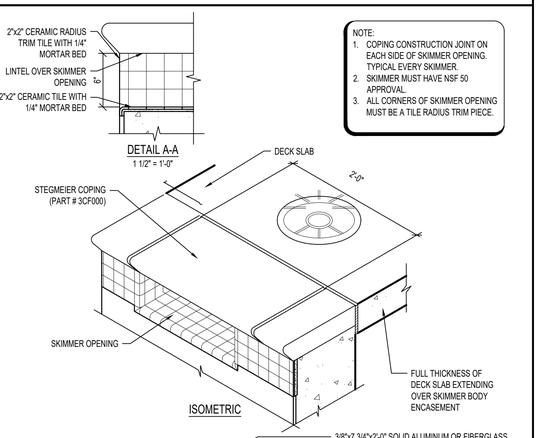
NOTE:
SET DECK WELL COLLAR AND LID FLUSH WITH DECK.

7 / AQ504 WATER LEVEL CONTROLLER
3/4" = 1'-0"

NOTE:
1. ALL MAIN DRAINS MUST BE CONSTRUCTED TO COMPLY WITH THE VIRGINIA GRAEME BAKER ACT & ASME ANSI/APSP-16-2017.
2. MAIN DRAINS MAY USE MULTIPLE VGB COMPLIANT GRATES SECURELY FASTENED PER MANUFACTURER RECOMMENDATIONS.
3. MAIN DRAIN SUMP DEPTH MAY NEED TO EXTEND LOWER TO ALLOW FOR WINTERIZATION. CONTRACTOR MUST CONFIRM DEPTH PRIOR TO INSTALLATION.
4. REFER TO STRUCTURAL FOR SUMP CONCRETE ENCASEMENT REQUIREMENTS.

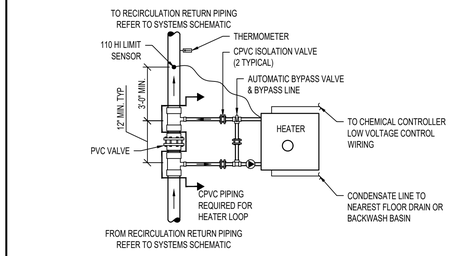


4 / AQ504 MAIN DRAIN
3/4" = 1'-0"



NOTE:
1. COPING CONSTRUCTION JOINT ON EACH SIDE OF SKIMMER OPENING. TYPICAL EVERY SKIMMER.
2. SKIMMER MUST HAVE NSF 50 APPROVAL.
3. ALL CORNERS OF SKIMMER OPENING MUST BE A TILE RADIUS TRIM PIECE.

2 / AQ504 SKIMMER DETAIL
1" = 1'-0"



NOTE:
1. HEATER BRANCH LINES MUST BE EQUAL LENGTH AND HAVE EQUAL FITTINGS.
2. PROVIDE ALL NECESSARY SUPPORTS AND CONNECTIONS DEEMED NECESSARY FOR COMPLETE INSTALLATION OF HEATER AND PIPING.
3. VERIFY ALL DIMENSIONS AND LOCATIONS ON SITE PRIOR TO INSTALLATION.
4. POOL HEATER MUST BE WITHIN 15'-0" OF POOL RECIRCULATION LINE.
5. HI LIMIT SENSOR TO BE INSTALLED A MINIMUM OF 3'-0" DOWNSTREAM FROM HEATER CONNECTION.
6. INSTALL PER MANUFACTURER RECOMMENDATIONS.
7. INSTALL FLOW METER IN STRAIGHT PIPE WITH TEN PIPE DIAMETERS PRIOR AND FIVE PIPE DIAMETERS AFTER FLOW METER.
8. HEATER AIR INTAKE, VENTING, AND GAS LINE MUST BE BY MECHANICAL. ELECTRICAL CONNECTIONS MUST BE BY ELECTRICAL. REFER TO HEATER SCHEDULE FOR MINIMUM REQUIREMENTS.
9. REFER TO DETAIL XXXXX FOR HEATER BYPASS CONNECTION.

11 / AQ504 LAP POOL HEATER PIPING
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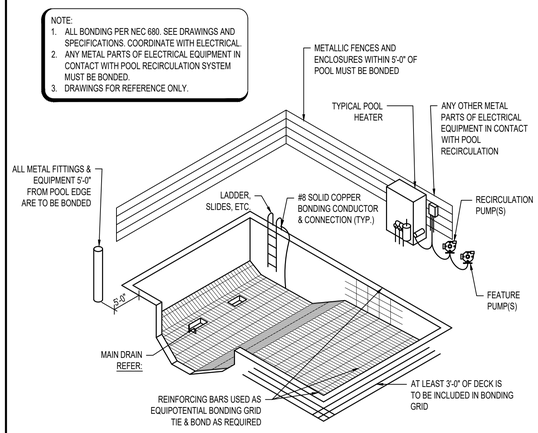

NOTE:
1. ALL BONDING PER NEC 680. SEE DRAWINGS AND SPECIFICATIONS. COORDINATE WITH ELECTRICAL.
2. ANY METAL PARTS OF ELECTRICAL EQUIPMENT IN CONTACT WITH POOL RECIRCULATION SYSTEM MUST BE BONDED.
3. DRAWINGS FOR REFERENCE ONLY.

8 / AQ504 TYPICAL POOL BONDING DETAIL
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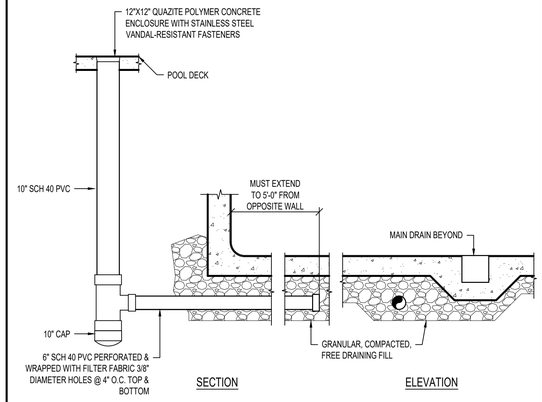

5 / AQ504 SIGHT SUMP
3/8" = 1'-0"

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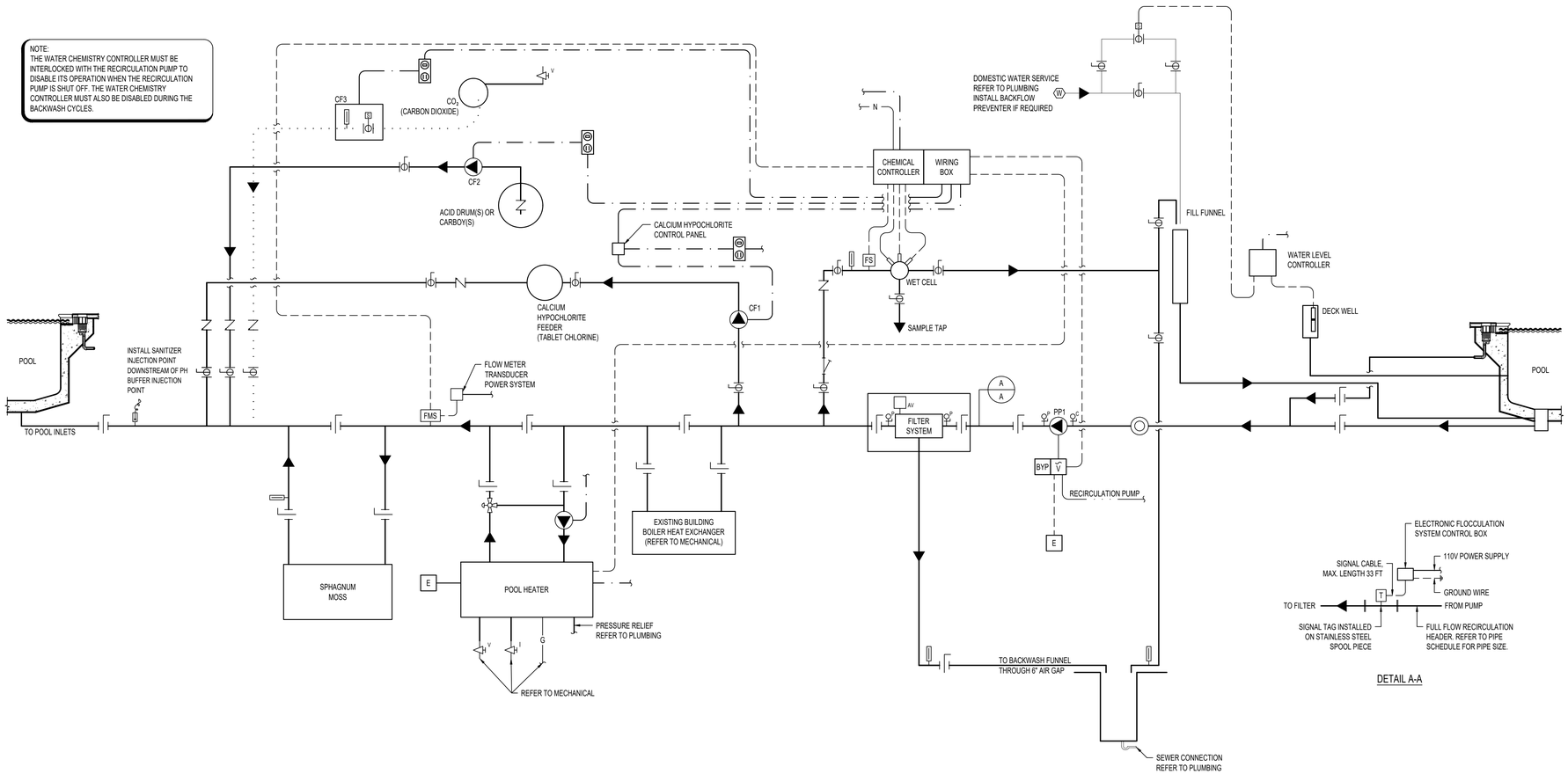
TITLE: **POOL MECHANICAL DETAILS**

SHEET #:
AQ504

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

1 AQ600 LAP POOL SYSTEMS SCHEMATIC
NTS

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
FMS	FLOW METER SENSOR
FS	FLOW SWITCH
	IMPACT FLOW METER
	VENTURI FLOW METER
W	WATER METER
AV	AUTOMATIC AIR VENT
V	AIR VENT
I	AIR INLET
P	PRESSURE GAUGE AND PETCOCK
C	COMPOUND GAUGE AND PETCOCK
	DIGITAL TEMP SENSOR
	THERMOMETER
A	PNEUMATIC ACTUATOR
	FLOW CONTROL VALVE
	COMBINATION SWITCH/RECEPTACLE
APSC	AUTOMATIC PUMP SHUT-OFF DEVICE
V	VARIABLE FREQUENCY DRIVE
R	REMOTE START/STOP
E	EMERGENCY STOP
BYP	VARIABLE FREQUENCY DRIVE BYPASS
CMS	CONTACT MOTOR SELECTOR
T	ELECTRONIC FLOCCULATION SIGNAL TAG
	15 MINUTE TIMER SWITCH
	LOW VOLTAGE CONTROL
	WATER LINE
	1 PHASE POWER
	3 PHASE POWER
	CO_2 LINE
N	NETWORK LINE BY ELECTRICAL
G	GAS LINE

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SCALE: **AS NOTED**
ISSUE DATE: **MARCH 22, 2024**
PROJECT #: **23079**
TITLE: **LAP POOL SYSTEMS SCHEMATIC**

SHEET #:
AQ600

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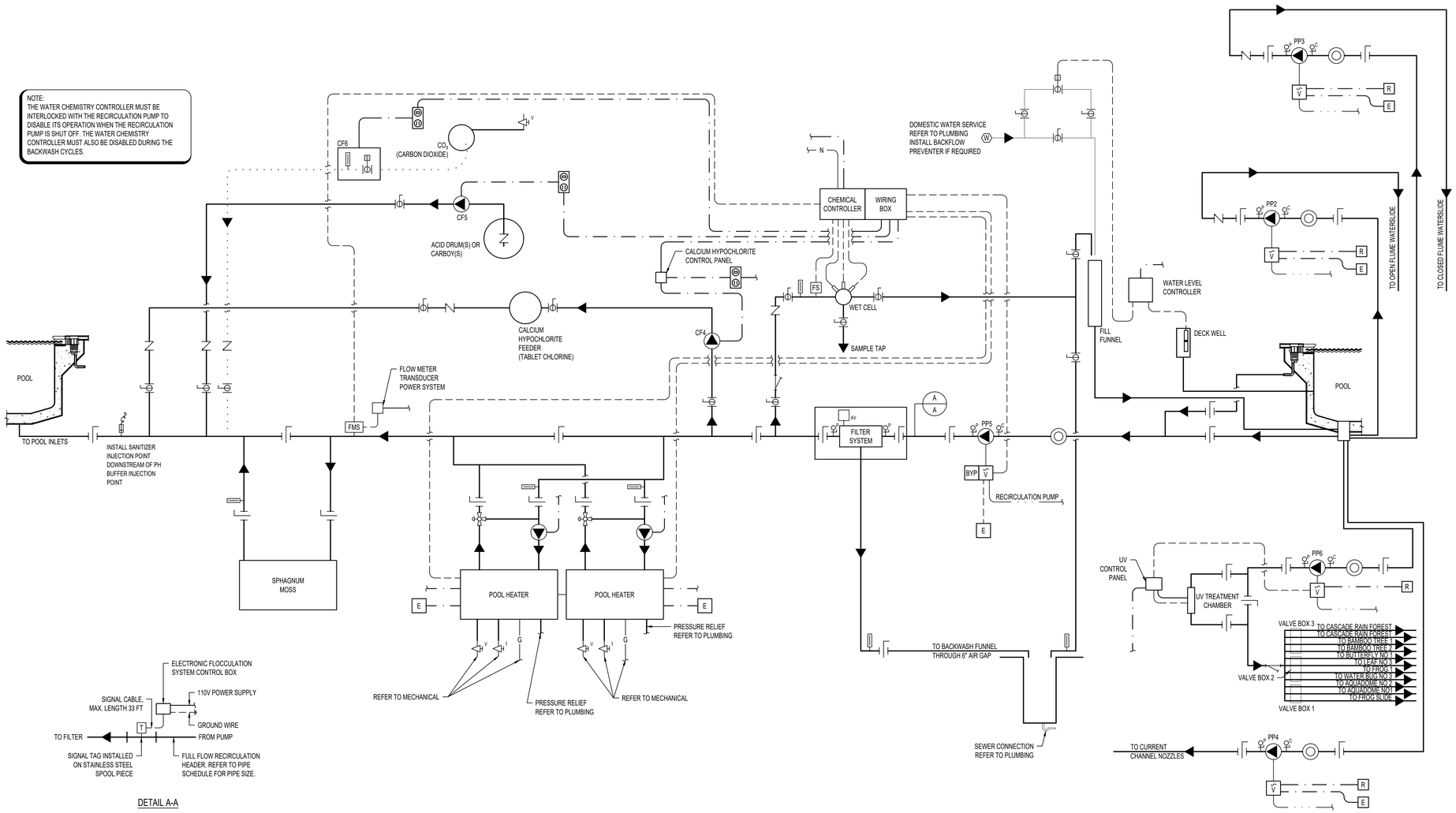
NOTE:
THE WATER CHEMISTRY CONTROLLER MUST BE INTERLOCKED WITH THE RECIRCULATION PUMP TO DISABLE ITS OPERATION WHEN THE RECIRCULATION PUMP IS SHUT OFF. THE WATER CHEMISTRY CONTROLLER MUST ALSO BE DISABLED DURING THE BACKWASH CYCLES.



DETAIL A-A

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
FMS	FLOW METER SENSOR
FS	FLOW SWITCH
	IMPACT FLOW METER
	VENTURI FLOW METER
W	WATER METER
AV	AUTOMATIC AIR VENT
V	AIR VENT
I	AIR INLET
P	PRESSURE GAUGE AND PETCOCK
C	COMPOUND GAUGE AND PETCOCK
	DIGITAL TEMP SENSOR
	THERMOMETER
A	PNEUMATIC ACTUATOR
	FLOW CONTROL VALVE
	COMBINATION SWITCH/RECEPTACLE
APSC	AUTOMATIC PUMP SHUT-OFF DEVICE
V	VARIABLE FREQUENCY DRIVE
R	REMOTE START/STOP
E	EMERGENCY STOP
BYP	VARIABLE FREQUENCY DRIVE BYPASS
CMS	CONTACT MOTOR SELECTOR
T	ELECTRONIC FLOCCULATION SIGNAL TAG
	15 MINUTE TIMER SWITCH
	LOW VOLTAGE CONTROL
	WATER LINE
	1 PHASE POWER
	3 PHASE POWER
	CO_2 LINE
N	NETWORK LINE BY ELECTRICAL
G	GAS LINE

1 AQ601 RECREATION POOL SYSTEMS SCHEMATIC

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TITLE: **RECREATION POOL SYSTEMS SCHEMATIC**

SHEET #:
AQ601

General Structural Notes:

Description:

This structural design project involves a single story building addition to the existing rec center building along with the foundations for the new exterior pools and aquatic equipment. Structural Engineering scope of services for the project includes the design and documentation of the primary structural systems. The primary structural systems are the components of the primary load bearing structure of the building including footings, foundations, structural slabs on grade, columns, girders, beams, joists, wind or seismic bracing, structural decking, and sheathing. Basic scope of services does not include design of typically performance specified elements, design of non-structural elements, design of typical manufacturer designed elements, or site development structures. Delegated design elements for this project are listed below and include the soil improvements beneath slabs and footings, Structural Steel Connections, and Stairs and Railings.

Design Criteria:

Code Edition: 2021 IBC (International Building Code) and Town of Eagle Amendments

Loads used in design are as follows:

Dead Loads

Roof

Metal Roof Deck w/ insulation and membrane roofing	Self-Weight of Structure + 10 psf
Collateral Load	5 psf

Live Loads

Lobbies & 1st Floor Corridors	100 psf
Offices	50 psf
Office Area Partition Allowance	15 psf
Corridors, Stairs, & Exit Ways	100 psf
Catwalks & Equipment Access Platforms	40 psf
Maintenance & Mechanical Rooms	125 psf
Computer Rooms	125 psf
Roofs	20 psf
Handrails & railing systems	200 lb at any point in any direction
Handrails & railing systems	50 plf in any direction
Fall Protection Systems	5000 lb
Decks and Balconies	1.5 x load for the area served, not to exceed 100 psf

Snow Loads

Ground Snow Load	65 psf
Snow Exposure Factor, Ce	1.00
Snow Load Importance Factor, Is	1.00
Typical Roofs Thermal Factor, Ct	1.00
Typical Flat Roof Snow Load	45 psf
Unheated Roofs Thermal Factor, Ct	1.20
Unheated Flat Roof Snow Load	54 psf
Drift and Sliding Snow Surcharge loading	See Drift and Sliding Snow Surcharge Load Map

Wind Design Data

Analysis Procedure	ASCE 7-16
Ultimate Wind Speed, Vult.	115 mph
Nominal Wind Speed, Vasd.	90 mph
Service Level Wind, 10 yr. MRI	76 mph
Risk Category	II
Wind Exposure	C
Internal Pressure Coefficient	+- 0.18

Exterior Component and Cladding Wind Pressures, (Strength Design Pressures)

Roof - Flat to 7 degrees

zone 1', 1, 2, & 3 roof positive pressure, < 10 sq. ft.	+10 psf	
zone 1', 1, 2, & 3 roof positive pressure, > 100 sq. ft.	+8 psf	
zone 1' roof negative pressure, < 100 sq. ft.		-21 psf
zone 1' roof negative pressure, > 1000 sq. ft.		-12 psf
zone 1 roof negative pressure, < 10 sq. ft.		-37 psf
zone 1 roof negative pressure, > 500 sq. ft.		-23 psf
zone 2 roof negative pressure, < 10 sq. ft.		-48 psf
zone 2 roof negative pressure, > 500 sq. ft.		-31 psf
zone 3 roof negative pressure, < 10 sq. ft.		-65 psf
zone 3 roof negative pressure, > 500 sq. ft.		-31 psf
overhang, zone 1 & 1' < 10 sq. ft.		-37 psf
overhang, zone 1 & 1', >100 sq. ft.		-34 psf
overhang, zone 1 & 1', >500 sq. ft.		-23 psf
overhang, zone 2 < 10 sq. ft.		-48 psf
overhang, zone 2, >500 sq. ft.		-25 psf
overhang, zone 3 < 10 sq. ft.		-55 psf
overhang, zone 3, >500 sq. ft.		-25 psf

Walls < 60 feet

zone 4 wall, <10 sq. ft.	+23 psf	-25 psf
zone 4 wall, >500 sq. ft.	+17 psf	-19 psf
zone 5 wall, <10 sq. ft.	+23 psf	-31 psf
zone 5 wall, >500 sq. ft.	+17 psf	-19 psf

Seismic Design Data

Analysis Procedure	ASCE7 Equivalent Lateral Force Procedure
Ss	0.348
S1	0.08
Site Class	C
Sds	0.302
Sd1	0.08
Risk Category	II
Seismic Importance Factor	1.00
Seismic Design Category	B
Seismic Force Resisting System(s)	Horizontal and Vertical Combinations of Intermediate Reinforced Masonry Shear Walls and Steel Not Specifically detailed for Seismic Resistance. Designed to Requirements for Lowest R Value System
Design Base Shear	Building: XXX kips
Seismic Response Coefficient, Cs	XXX
Response Modification Coefficients, R INT. REINFORCED MASONRY SHEAR WALLS STEEL NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE	4 3
LOWEST R VALUE USED FOR DESIGN =	3

Deflection

Typical Metal Stud Wall Lateral Deflection	L/360
Metal Stud Wall Lateral Deflection w/ Masonry Veneer	L/600
Floor Live Load Deflection	L/600
Roof Live/Snow Load Deflection	L/360
Total Load Deflection (including Creep)	L/240
Building Lateral Drift, Service Level Wind Load, 10 yr. MRI	H/400
Building Lateral Drift, Seismic Load	H/100

Geotechnical Design Data

Frost Depth	48 inches

Geo-Technical Information

1 The foundation design was prepared in accordance with the geotechnical supplemental report by Wiss, Janney, Elstner Associates, Inc., dated November 30, 2023, job number 2022.4162.1. Proposed foundation and floor support is on soil improvements designed by others. All compaction grouting shall be designed for a 1 inch maximum settlement and 1/2 inch maximum differential settlement. Slab on grade floors shall be supported on soil improved by compaction grouting. The allowable bearing pressure for the building addition is XXXX psf. Modulus of subgrade reaction used for the pool mat foundation is k = 20 kcf in order to be within 1/2"-1" deflection.

Soil Improvements - Delegated Design:

1 Compaction Grouting Soil improvement methods beneath spread footings and slab on grade floor areas shall be designed and constructed for the bearing pressures indicated. Calculations and shop drawings, shall be signed and sealed by an Engineer registered in the project state experienced in the design and construction of drilled concrete piers. Submit calculations, shop drawings, test results, and material specifications to the Engineer for review.

Reinforcing Steel:

1 All reinforcement detailing, fabrication and placement shall conform to the ACI Details and Detailing of Reinforcement (ACI 315).
2 Unless noted otherwise, all reinforcing bars shall be of deformed bars conforming to ASTM A615, Grade 60. Welded reinforcing bars shall be ASTM A706, Grade 60.
3 Welded wire fabric shall conform to ASTM A185, Grade 60 and be lapped a minimum of one full mesh plus two inches at side and end splices and be wired together.
4 Reinforcement shall be the longest lengths practical. Where splices are necessary, lap splices shall be a minimum of 60 bar diameters for Grade 60 reinforcing and 40 bar diameters for Grade 40 reinforcing, unless noted otherwise. Do not weld or use mechanical splicing.
5 At corners make bar continuous through discontinuity or provide corner bars with a full length lap splice each side of corner.

Reinforced Concrete:

1 All structural concrete for the building addition has been designed in accordance with ACI 318. All structural concrete for the pool shell has been designed in accordance with ACI 350. All structural concrete construction work shall conform to ACI 301 and ACI 350 unless noted otherwise.
2 Cast in place concrete shall conform to CDOT Class D unless noted otherwise. Admixtures containing chloride salts shall not be used. All concrete walls and slabs (including slabs on metal deck) exposed to the weather and garage floor slabs shall have 6% of entrained air. Concrete shall have minimum 28 day compressive strengths of:

Element:	Minimum Compressive Strength, f'c
Interior Slabs on Grade:	4500 psi
Pool Shell Walls and Slabs:	5000 psi
Concrete exposed to weather and salts:	5000 psi
All other cast in place concrete:	4500 psi

3 Structural Normalweight Concrete shall have a maximum in place unit weight of 150 pounds per cubic foot.
4 Concrete coverage for reinforcing steel shall provide the following (minimums unless noted otherwise):

Unformed surfaces poured permanently against earth:	3 inches
Formed surfaces exposed to earth, weather, or fluid:	
#5 bar or less:	1 1/2 inches
#6 bar or greater:	2 inches
Not exposed to earth, weather, or fluid:	
Slabs and walls, interior face:	1 inch
Beam and columns	1 1/2 inches

5 Hot and cold weather concreting procedures shall conform to the recommendations in the ACI manual of Concrete Practice.
6 Bolts for beam and column bearing plates shall be set with templates.
7 Contractor shall coordinate all embeds, penetrations, openings, and verify all plan dimensions prior to forming and pouring concrete.
8 Construction joints shall be laid out to minimize the number of construction joints in each individual structure. Construction joints in walls shall not occur where it would divide additional corner or intersection reinforcement.

Grout:

1 All grout beneath column base plates and steel beams at bearing shall be non-shrink, non-metallic type grout.
2 Grout shall have a minimum compressive strength of 5000 psi.

Structural Masonry:

1 Masonry design assumptions require that all construction is in accordance with Level B quality assurance requirements of the Building Code Requirements for Masonry Structures, TMS 402/ACI530/ASCE5)
2 Load bearing masonry shall be hollow lightweight concrete masonry units conforming to ASTM C90 Exterior walls and walls below grade shall be gradeN-1. Interior walls not exposed to weather or earth may be grade N-1 or S-1. Unit strength shall be 1900 psi.
3 Mortar shall conform to ASTM C270 and shall be Type S with a minimum cube strength of 2000 psi. Do not use masonry cement or admixtures unless approved by the structural engineer.
4 Grout shall be coarse grout with a minimum cube strength of 2000 psi. Admixtures shall not be used unless approved by the structural engineer.
5 Minimum prism strength of masonry wall assemblies shall be F'm = 2000 psi.
6 Unless noted otherwise, conform to the grout space and height limitations set forth in ACI 530.
7 Bond Beam units shall be produced from standard vertically voided units with pre-cut knock out cross walls.
8 All masonry shall be laid up in running bond with exposed joints tooled.
9 Use continuous horizontal joint reinforcing in all masonry walls, consisting of 9 gauge side wire welded to 9 gauge ladder type wire. Width of joint reinforcing shall be approximately 2 inches less than width of wall. Provide prefabricated corners and tees. Wire shall conform to ASTM specification A-82. Maximum vertical spacing of joint reinforcing shall be 16 inches.
10 Provide 1/2 inch clearance or expansion material between masonry and other structural elements, unless noted otherwise.
11 Vertical control joints shall be provided full height of masonry walls at:
- At all changes in wall height.
- At all changes in wall thickness.
- At all expansion joints in foundations, floors, and roofs.
- Spaced 1 1/2 times wall height to a maximum of 25 feet.

12 Contruct control joints as continuous head joints with mortar raked 3/4 inch at both faces and 50% of the horizontal joint reinforcing cut at the joint. Bond beam reinforcing and grout shall continue through the joint.
13 Expansion joints shall be a full structural separation for the full height of the masonry wall.
14 Masonry walls, including site walls shall have a continuous horiztontal bond beam consisting of (2)-#5 bars and solid grout at the top of the wall, roof, or floor elevations, and at 8'-0 maximum vertical spacing.
15 Openings in masonry walls shall be reinforced with a #5 bar in a vertical grouted cell each side of openings up to 10'-0 wide. Openings greater than 10' wide shall have 2 vertical grouted cells with #5 reinforcement. Extend reinforcing and grout 2'-6 past opening on all sides.

Concrete and Masonry Anchors:

1 Anchor bolts are to be ASTM F1554, Grade 36 headed anchor bolts, unless noted otherwise. Embedment shall be a minimum of 16 times anchor diameter unless noted otherwise.
2 Expansion Bolts are to be Kwik Bolt TZ manufactured by Hilti, Inc. unless noted otherwise. Install in accordance with ICC Report ESR-917 or approved update, including standard embedment depths, unless noted otherwise. Proposed substitutions shall have equal or greater capacity and shall be submitted to the engineer for review with product data and code approval reports.
3 Epoxy grouted anchors installed in concrete are to be HIT-Z anchor rods or HAS threaded rods or reinforcing steel installed using HY-200 Adhesive Anchoring System manufactured by Hilti, Inc. Install in accordance with ICC Report ESR-3187 or approved update, including standard embedment depths, unless noted otherwise. Proposed substitutions shall have equal or greater capacity and shall be submitted to the engineer for review with product data and code approval reports.
4 Epoxy grouted anchors installed in masonry are to be ASTM A307 rods or reinforcing steel installed using HY-270 Adhesive Anchoring System manufactured by Hilti, Inc.. Install in grouted cels only in accordance with ICC Report ESR-4143 or approved update including standard embedment depths, unless noted otherwise. Proposed substitutions shall have equal or greater capacity and shall be submitted to the engineer for review with product data and code approval reports.

Structural Steel:

1 Structural steel shall be detailed, fabricated, and erected in accordance with the latest provisions of AISC Manual of Steel Construction.
2 Structural steel rolled shapes shall conform to ASTM A992, Grade 50 for wide flange and channel members, and ASTM A36, Grade 36 for angles and plates. Tube shapes shall conform to ASTM A500 Grade C. Pipe columns shall conform to ASTM A53, Grade B. The latest editions of the requirements shall be used.
3 All structural bolts used in steel framing shall be ASTM F3125, Grade A325 - N installed to a minimum snug tight condition, unless noted otherwise.
4 Typical framed beam connections shall be bearing type with 3/4 inch diameter bolts, detailed in conformance with the structural drawings and the AISC Steel Construction Manual unless noted otherwise.
5 All welding shall be performed by an AWS qualified welder.
6 Delay painting within 3" of field welds until welds are completed.

Steel Joists - Deferred Submittal:

1 Joists and Joist Girders shall be designed to support the loads as shown. Loading information is provided in the General Notes, in loading diagrams and schedules, and in the sections and details. Design calculations shall be signed and sealed by an Engineer registered in the project state. Submit calculations and shop drawings to the Engineer for review.
2 Steel joists shall be designed, fabricated and erected in accordance with the Steel Joist Institute's Standard Specification for Open Web Steel Joists, K series, K-10, or Standard Specification for Longspan Steel Joists, LH series and Deep Longspan Joists, DLH series, LH/DLH-10.
3 Joist Girders shall be designed, fabricated and erected in accordance with the Steel Joist Institute's Standard Specification for Joist Girders, JG-10.
4 End bearings, chord extensions, and other bearing details shall be as indicated on the structural plans. Bridging, bracing, and other accessories shall be in accordance with SJI requirements.

Cold Formed Steel Framing - Deferred Submittal:

1 Cold formed steel framing shall be designed for loads given. Calculations and shop drawings shall be signed and sealed by an Engineer registered in the project state. Submit calculations and shop drawings to the Engineer for review.
2 Cold formed steel framing design and construction shall conform to the AISI S100-16 North American Specification for the Design of Cold-Formed Steel Structural Members.
3 Minimum yield strength (Fy) for cold formed steel framing members shall be 33000 psi for 18 Gauge (43mils) and thinner. Minimum yield strength (Fy) shall be 50000 psi for 16 Gauge (54 mils) and thicker.
4 All cold formed steel studs, trusses, track, bridging and accessories shall be formed from steel having a G-60 galvanized coating conforming to ASTM A653 and C955.

Steel Deck:

1 Steel roof and floor deck shall be the depth, gauge, and rib type indicated on the plans and fabricated from sheet steel conforming to ASTM A611 or A446 with a minimum yield strength of 50 ksi. If substitutions are desired, contact structural engineer.
2 Decking shall be manufactured and erected in accordance with the standard recommendations of the Steel Deck Institute with welding patterns and details as indicated in the manufacturer's shop drawings. Required diaphragm shear values or connection patterns shall be as indicated on the structural plans.
3 Decking shall be finished by phosphatizing and painting with a baked on acrylic primer. Decking used as a concrete form shall be phosphatized but not painted on the side in contact with the concrete.
4 Openings larger than 6 inches in diameter shall be approved by the structural engineer prior to being cut in the decking.
5 Welding washers shall be used for decking with a thickness of less than 18 gauge.
6 Decking shall be installed in a 3-span condition minimum.

General Requirements:

1 Structural erection and bracing: The structural drawings illustrate the completed structure with all elements in their final positions supported and braced. The contractor, in the proper sequence, shall provide shoring and bracing as may be required during construction to achieve the final completed structure. Contact engineer for consultation (not in contract) as required.
2 Shop drawings: Submit shop and erection drawings for all deep foundations and soil improvements, structural steel, structural aluminum, miscellaneous steel, steel joists and girders, steel deck, masonry and concrete reinforcing steel to the engineer to review prior to fabrication. This review is for general compliance with the intent of the structural design. The manufacturing or fabrication of any items prior to written review of the shop drawings will be at the risk of the contractor. The architect and/or contractor are responsible for checking quantities, dimensions and coordination with other trades.
3 Dimensions: Check all dimensions against field and architectural drawings prior to construction. Do not scale drawings.
4 Construction practices: The general contractor is responsible for means, methods, techniques, sequences and procedures for construction of this project. Notify structural engineer of omissions or conflicts between the working drawings and existing conditions.
5 Coordinate requirements for mechanical/electrical/plumbing penetrations through structural elements with structural engineer. Prior to installation of such equipment or other items to be attached to the structure, the contractor shall obtain approval for connections and support. Contractor shall furnish required hangers, connections, etc. required for installation of such items, unless specifically noted on plans.
6 Jobsite safety is the sole responsibility of the contractor. All methods used for construction shall be in accordance with the latest edition of the IBC.
7 The structural engineer may make periodic observation visits to the jobsite for determination of general conformance with the construction documents. Such observation visits shall not replace required inspections by the governing authorities or serve as "special inspections" as may be required by the International Building Code.
8 Though every effort has been made to provide a complete and clear set of construction documents, discrepancies or omissions may occur. Release of these drawings anticipates cooperation and continued communication between the contractor, architect and engineer to provide the best possible structure. These drawings have been prepared for the use of a qualified contractor experienced in the construction techniques and systems depicted.

Deferred Submittals:

1 When received and reviewed by the Engineer of Record, the following submittal items will be submitted to the building official for review and approval:
- Soil Improvements
- Structural Steel Connections
- Stairs and Railings

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NOT FOR CONSTRUCTION

Mountain Recreation Eagle Pool

1700 Bull Pasture Rd, Eagle, CO 81631

NO.	DATE:	TITLE/PURPOSE:
1	3/22/2024	SITE PLAN 02

SCALE: **12" = 1'-0"**
ISSUE DATE: **03/22/2024**
PROJECT #: **2023-493.001**
TITLE: **GENERAL NOTES**

SHEET #:
S-001

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STATEMENT OF SPECIAL INSPECTIONS

This Statement of Special Inspections is prepared in accordance with the 2021 International Building Code Section 1705. It is limited to structural elements and does not include requirements for architectural components, Plumbing, Mechanical, and Electrical Components, fire resistant materials, insulation systems and smoke control systems as outlined in IBC Sections 1705.13.5, 1705.13.6, 1705.15, 1705.17, and 1705.19. Additional Statements may be required from other Design Professionals.

Sections noted shall be inspected or tested in accordance with the referenced standards or IBC reference. See IBC for appropriate references.

Inspections and testing shall be performed by the Jurisdiction Building Official or by an approved agency engaged by the Design-Build Team and recognized and approved by the Engineer of Record and the Building Official in accordance with IBC Section 1704.

The quality assurance program and special inspection requirements for Structural Masonry construction shall comply with Section 1705.4 of the IBC and the requirements for Level B quality assurance of the Building Code Requirements for Masonry Structures, TMS 402-16, and Specification for Masonry Structures, TMS 602-16.

Table 3.1 - Minimum Quality Assurance Level

Designed in accordance with	Risk Category I, II, or III	Risk Category IV
Part 3 or Appendix B or Appendix C	Level 2	Level 3
Part 4	Level 1	Level 2
Appendix A	Level 1	Not permitted

Table 3 - Minimum Verification Requirements

Minimum Verification	Required for Quality Assurance (a)			Reference for Criteria
	Level 1	Level 2	Level 3	TMS 602
Prior to construction, verification of compliance of submittals.	R	R	R	Art. 1.5
Prior to construction, verification of f'_m and f'_{AAC}, except where specifically exempted by the Code.	NR	R	R	Art. 1.4 B
During construction, verification of Slump flow and Visual Stability Index (VSI) when self-consolidating grout is delivered to the project site.	NR	R	R	Art. 1.5 & 1.6.3
During construction, verification of f'_m and f'_{AAC} for every 5,000 sq. ft. (465 sq. m).	NR	NR	R	Art. 1.4 B
During construction, verification of proportions of materials as delivered to the project site for premixed or preblended mortar, prestressing grout, and grout other than self-consolidating grout.	NR	NR	R	Art. 1.4 B

(a) R= Required, NR= Not Required

MINIMUM SPECIAL INSPECTION FOR MASONRY CONSTRUCTION

Inspection Task	Frequency (a)			Reference for Criteria	
	Level 1	Level 2	Level 3	TMS 402	TMS 602
1. As masonry construction begins, verify that the following are in compliance:					
a. Proportions of site-prepared mortar	NR	P	P		Art. 2.1, 2.6 A, & 2.6 C
b. Grade and size of prestressing tendons and anchorages	NR	P	P		Art. 2.4 B, & 2.4 H
c. Grade, type and size of reinforcement, connectors, anchor bolts, and prestressing tendons and anchorages	NR	P	P		Art. 3.4 & 3.6 A
d. Prestressing technique	NR	P	P		Art. 3.6 B
f. Properties of thin-bed mortar for AAC masonry	NR	C[b] /P[c]	C		Art. 2.1 C.1
f. Sample panel construction	NR	P	C		Art. 1.6 D
2. Prior to grouting, verify that the following are in compliance:					
a. Grout space	NR	P	C		Art. 3.2 D, 3.2 F
b. Placement of prestressing tendons and anchorages	NR	P	P	Sec. 10.8 & 10.9	Art. 2.4, & 3.6
c. Placement of reinforcement, connectors, and anchor bolts	NR	P	C	Sec. 6.1, 6.3.1, 6.3.6, 6.3.7	Art. 3.2 E & 3.4
d. Proportions of site-prepared grout and prestressing grout for bonded tendons	NR	P	P		Art. 2.6 B & 2.4 G.1.b
3. Verify compliance of the following during construction:					
a. Materials and procedures with the approved submittals	NR	P	P		Art. 1.5
b. Placement of masonry units and mortar joint construction	NR	P	P		Art. 3.3 B
c. Size and location of structural members	NR	P	P		Art. 3.3 F
d. Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction	NR	P	C	Sec. 1.2.1 (e), 6.2.1, & 6.3.1	
e. Welding of reinforcement	NR	C	C	Sec. 6.1.6.1.2	
f. Preparation, construction, and protection of masonry during cold weather (temperature below 40°F (4.4°C)) or hot weather (temperature above 90°F (32°C))	NR	P	P		Art. 1.8 C & 1.8 D
g. Application and measurement of prestressing force	NR	C	C		Art. 3.6 B
h. Placement of grout and prestressing grout for bonded tendons is in compliance	NR	C	C		Art. 3.5 & 3.6 C
i. Placement of AAC masonry units and construction of thin-bed mortar joints	NR	C[b] /P[c]	C		Art. 3.3 B.9 & 3.3 F.1.b
4. Observe preparation of grout specimens, mortar specimens, and/or prisms	NR	P	C		Art. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, & 1.4 B.4

(a) Frequency refers to the frequency of inspection, which may be continuous during the listed task or periodically during the listed task, as defined in the table. NR= Not Required, P= Periodic, C= Continuous

(b) Required for the first 5000 square feet (465 square meters) of AAC masonry.

(c) Required after the first 5000 square feet (465 square meters) of AAC masonry.

REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

TYPE	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	REFERENCED STANDARDa	IBC REFERENCE
1. Inspect reinforcement, including prestressing tendons, and verify placement.	—	X	ACI 318: Ch. 20, 25.2, 25.3, 26.6.1-26.6.3	—
2. Reinforcing bar welding:				
a. Verify weldability of reinforcing bars other than ASTM A706			AWS D1.4 ACI 318: 26.6.4	—
b. Inspect single-pass fillet welds, maximum 5/16"; and	—	X		
c. Inspect all other welds	X	X		
3. Inspect anchors cast in concrete.	—	X	ACI 318: 17.8.2	—
4. Inspect anchors post-installed in hardened concrete members.				
a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads.	X	—	ACI 318: 17.8.2.4	—
b. Mechanical anchors and adhesive anchors not defined in 4.a	—	X	ACI 318: 17.8.2	
5. Verify use of required design mix.	—	X	ACI 318: Ch. 19, 26.4.3, 26.4.4	1904.1, 1904.2
6. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	X	—	ASTM C31 ASTM C172 ACI 318: 26.5, 26.12	—
7. Inspect concrete and shotcrete placement for proper application techniques.	X	—	ACI 318: 26.5	—
8. Verify maintenance of specified curing temperature and techniques.	—	X	ACI 318: 26.5.3-26.5.5	—
9. Inspect prestressed concrete for:				
a. Application of prestressing forces; and	X	—	ACI 318: 26.10	—
b. Grouting of bonded prestressing tendons.	X	—		
10. Inspect erection of precast concrete members.	—	X	ACI 318: Ch. 26.9	—
11. For precast concrete diaphragm connections or reinforcement at joints classified as moderate or high deformability elements (MDE or HDE) in structures assigned to Seismic Design Category C, D, E, or F, inspect such connections and reinforcement in the field for:				
a. Installation of the embedded parts	X	—	ACI 318: 26.13.1.3 ACI 550.5	—
b. Completion of the continuity of reinforcement across joints.	X	—		
c. Completion of connections in the field.	X	—		
12. Inspect installation tolerances of precast concrete diaphragm connections for compliance with ACI 550.5.	—	X	ACI 318: 26.13.1.3	—
13. Verify in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs.	—	X	ACI 318: 26.11.2	—
14. Inspect formwork for shape, location and dimensions of the concrete member being formed.	—	X	ACI 318: 26.11.1.2(b)	—

For SI: 1 inch = 25.4 mm
a. Where applicable, see also Section 1705.13, Special Inspections for seismic resistance.
b. Specific requirements for special inspection shall be included in the research report for the anchor issued by an approved source in accordance with 17.8.2 in ACI 318, or other qualification procedures. Where specific requirements are not provided, special inspection requirements shall be specified by the registered design professional and shall be approved by the building official prior to the commencement of the work.

REQUIRED QUALITY CONTROL AND QUALITY ASSURANCE INSPECTIONS OF HIGH STRENGTH BOLTING

Quality Control Inspections shall be performed by the fabricator's or erector's Quality Control Inspector. Quality Assurance Inspections and nondestructive testing of structural steel elements in buildings, structures, and portions thereof shall be in accordance with the quality assurance inspection requirements of AISC 360. Observation of bolting operations shall be the primary method used to confirm that the materials, procedures and workmanship incorporated in construction are in conformance with the construction documents and provisions of the RCSC Specification.
(1) For snug-tight joints, pre-installation verification testing and monitoring of the installation procedures are not applicable.
(2) For pretensioned joints and slip-critical joints, when the installer is using the turn-of-the method with matchmarking techniques, the direct tension indicator method, or the twist off type tension control bolt method, QC and QA inspectors need not be present during installation.
(3) For pretensioned and slip-critical joints, when the installer is using the calibrated wrench method, or turn-of-the-nut method wihtout matchmarking, QC and QA inspectors shall be engaged in their assigned inspection duties during installation of fasteners.
As a minimum, bolting inspection tasks shall be in accordance with the following tables:
In these tables, the inspection tasks are as follows:
O - Observe these items on a random basis. Operations need not be delayed pending these inspections.
P - Perform these tasks for each welded joint or member.

INSPECTION TASKS PRIOR TO BOLTING	QC	QA
Manufacturer's certifications available for fastener materials	O	P
Fasteners marked in accordance with ASTM requirements	O	O
Proper fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded from shear plane)	O	O
Proper bolting procedure selected for joint detail	O	O
Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements.	O	O
Pre-installation verification testing by installation personnel observed and documented for fastener assemblies and methods used.	P	O
Proper storage provided for bolts, nuts, washers, and other fastener components.	O	O

INSPECTION TASKS DURING BOLTING	QC	QA
Fastener assemblies, of suitable condition, placed in all holes and washers (if required) are positioned as required.	O	O
Joint brought to the snug-tight condition prior to the pretensioning operation.	O	O
Fastener component not turned by the wrench prevented from rotating.	O	O
Fasteners are pretensioned in accordance with the RCSC Specification, progressing systematically from the most rigid point toward the free edges.	O	O

INSPECTION TASKS AFTER BOLTING	QC	QA
Document acceptance or rejection of bolted connections	P	P

REQUIRED QUALITY CONTROL AND QUALITY ASSURANCE INSPECTIONS OF WELDED STEEL CONSTRUCTION

Quality Control Inspections shall be performed by the fabricator's or erector's Quality Control Inspector. Quality Assurance Inspections and nondestructive testing of structural steel elements in buildings, structures, and portions thereof shall be in accordance with the quality assurance inspection requirements of AISC 360. Observation of Welding operations and visual inspection of in-process and completed welds shall be the primary method to confirm that the materials, procedures and workmanship are in conformance with the construction documents. As a minimum welding inspection tasks shall be in accordance with the following tables. In these tables, the inspection tasks are as follows:
O - Observe these items on a random basis. Operations need not be delayed pending these inspections.
P - Perform these tasks for each welded joint or member.

INSPECTION TASKS PRIOR TO WELDING	QC	QA
Welder qualification records and continuity records	P	O
Welding procedure specifications (WPS) available	P	P
Manufacturer certifications for welding consumables available.	P	P
Material identification (type/grade)	O	O
Welder identification system [a]	O	O
Fit-up of groove welds (including joint geometry) • Joint preparations • Dimensions (alignment, root opening, root face, bevel) • Cleanliness (condition of steel surfaces) • Tacking (tack weld quality and location) • Backing type and fit (if applicable)	O	O
Fit-up of CJP groove welds of HSS T-, Y- and K- joints without backing (including joint geometry) • Joint preparations • Dimensions (alignment, root opening, root face, bevel) • Cleanliness (condition of steel surfaces) • Tacking (tack weld quality and location)	P	O
Configuration and finish of access holes	O	O
Fit-up of fillet welds • Dimensions (alignment, gaps at root) • Cleanliness (condition of steel surfaces) • Tacking (tack weld quality and location)	O	O
Check welding equipment	O	-

[a] The fabricator or erector, as applicable, shall maintain a system by which a welder who has welded a joint or member can be identified. Stamps, if used, shall be the low-stress type.

INSPECTION TASKS DURING WELDING	QC	QA
Control and handling of welding consumables • Packaging • Exposure control	O	O
No welding over cracked tack welds	O	O
Environmental Conditions • Wind speed within limits • Precipitation and temperature	O	O
WPS followed • Settings on welding equipment • Travel speed • Selected welding materials • Shielding gas type/flow rate • Preheat applied • Interpass temperature maintained (min./max.) • Proper position (F, V, H, OH)	O	O
Welding techniques • Interpass and final cleaning • Each pass within profile limitations • Each pass meets quality requirements	O	O
Placement and installation of steel headed stud anchors	P	P

INSPECTION TASKS AFTER WELDING	QC	QA
Welds cleaned	O	O
Size, length and location of welds	P	P
Welds meet visual acceptance criteria • Crack prohibition • Weld/base-metal fusion • Crater cross section • Weld profiles • Weld size • Undercut • Porosity	P	P
Arc strikes	P	P
k-area [a]	P	P
Weld access holes in rolled heavy shapes and built-up heavy shapes [b]	P	P
Backing removed and weld tabs removed (if required)	P	P
Repair activities	P	P
Document acceptance or rejection of welded joint or member	P	P
No prohibited welds have been added without the approval of the EOR	O	O

[a] When welding of doubler plates, continuity plates or stiffeners has been performed in the k-area, visually inspect the web k-area for cracks within 3 in. (75mm) of the weld.

[b] After rolled heavy shapes (see Section A3.1c) and built-up heavy shapes (see Section A3.1d) are welded, visually inspect the weld access hole for cracks.

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NOT FOR CONSTRUCTION

Mountain Recreation Eagle Pool

1700 Bull Pasture Rd, Eagle, CO 81631

NO.	DATE:	TITLE/PURPOSE:
1	3/22/2024	SITE PLAN 02

SCALE: 12" = 1'-0"
ISSUE DATE: 03/22/2024
PROJECT #: 2023-493.001
TITLE: SPECIAL INSPECTIONS

SHEET #:
S-002

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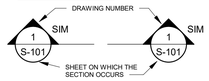
SYMBOLS LEGEND

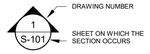
REVISION MARK

ELEVATION MARK

SECTION CUT LABEL



ELEVATION VIEW LABEL



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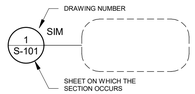

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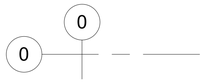


STEP INDICATOR SYMBOLS

SLOPE INDICATOR SYMBOLS

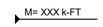
BEAM POCKET

BEAM HANGER

JOIST OR RAFTER BEARING

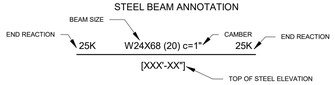
FULL MOMENT CONNECTION

MOMENT CONNECTION



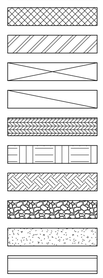
AXIAL DRAG CONNECTION

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

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

NO.	DATE:	TITLE/PURPOSE:
1	3/22/2024	SITE PLAN 02

SCALE: **12" = 1'-0"**
ISSUE DATE: **03/22/2024**
PROJECT #: **2023-493.001**
TITLE: **SYMBOLS AND ANNOTATIONS**

SHEET #:
S-003

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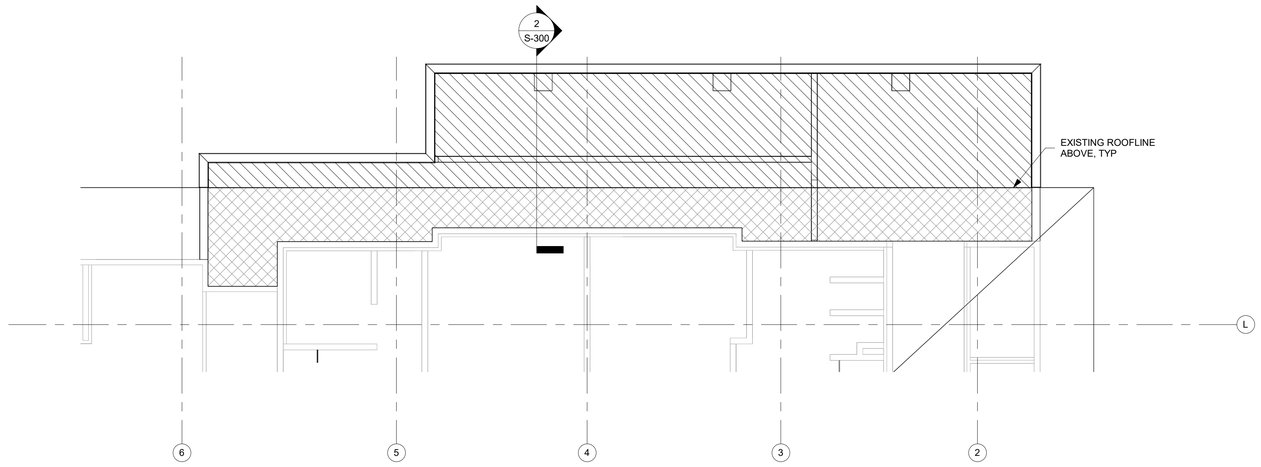
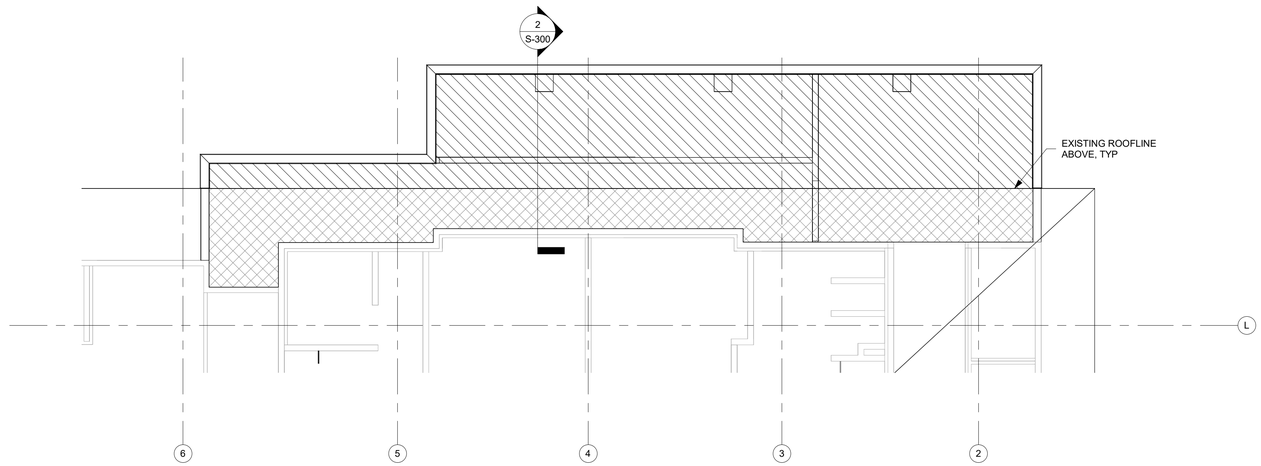


ROOF SNOW DRIFT LOAD MAP NOTES:
1. SEE DESIGN CRITERIA FOR TYPICAL ROOF SNOW LOAD. DRIFT LOAD SURCHARGES SHOWN ARE IN ADDITION TO TYPICAL ROOF SNOW LOADS.

1 S-004 SNOW SLIDING LOAD MAP

1/8" = 1'-0"



COMPONENT AND CLADDING WIND LOAD MAP NOTES:
1. SEE DESIGN CRITERIA FOR COMPONENT AND CLADDING WIND LOAD REQUIREMENT.

2 S-004 COMPONENT AND CLADDING WIND LOAD MAP

1/8" = 1'-0"

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NO.	DATE:	TITLE/PURPOSE:
1	3/22/2024	SITE PLAN 02

SCALE: **1/8" = 1'-0"**
ISSUE DATE: **03/22/2024**
PROJECT #: **2023-493.001**
TITLE: **LOADING MAPS**

SHEET #:
S-004

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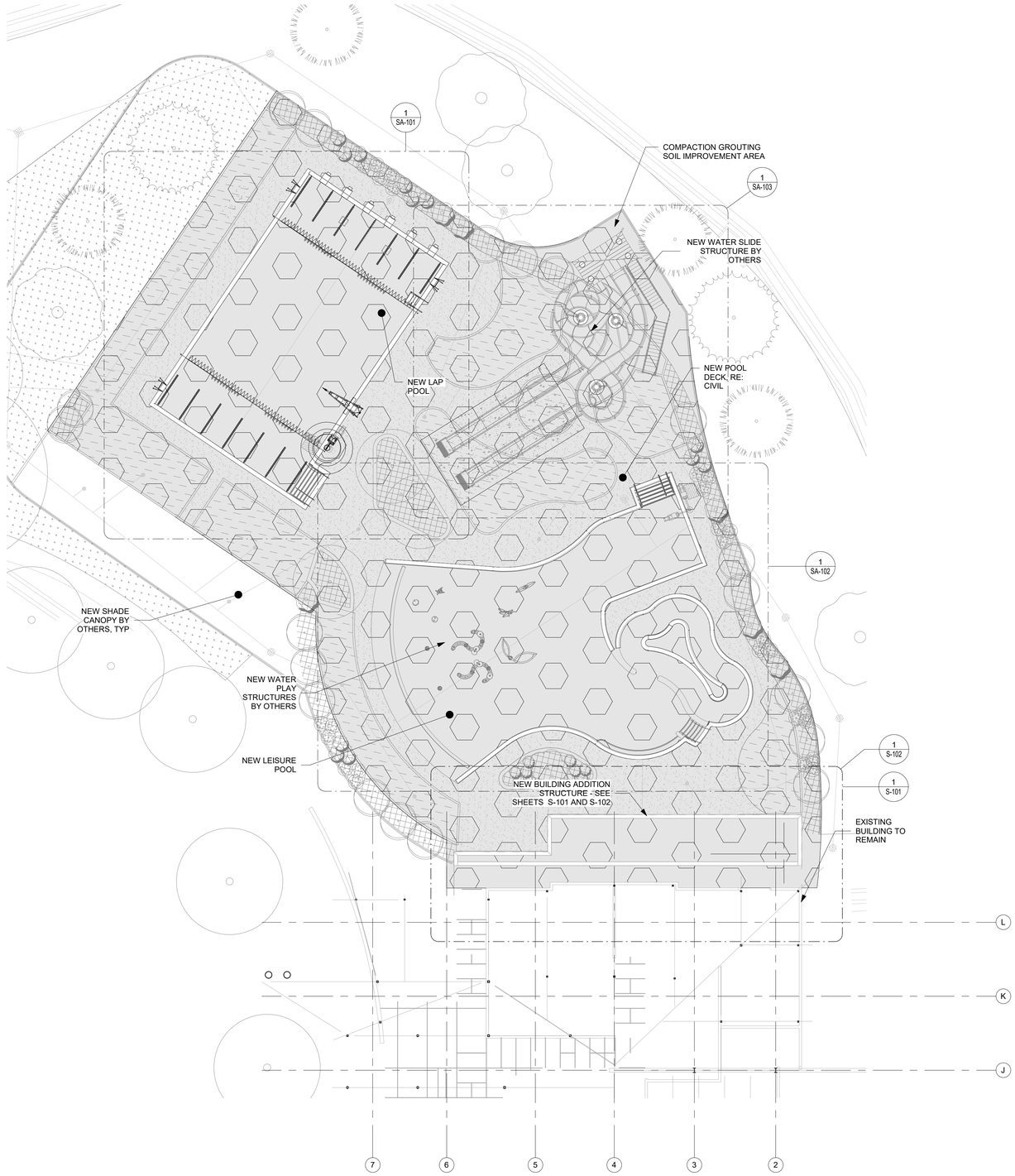

1 S-100 **STRUCTURAL SITE PLAN**
1/16" = 1'-0"

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NO.	DATE:	TITLE/PURPOSE:
1	3/22/2024	SITE PLAN 02

SCALE: **1/16" = 1'-0"**
ISSUE DATE: **03/22/2024**
PROJECT #: **2023-493.001**
TITLE: **STRUCTURAL SITE PLAN**

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S-100

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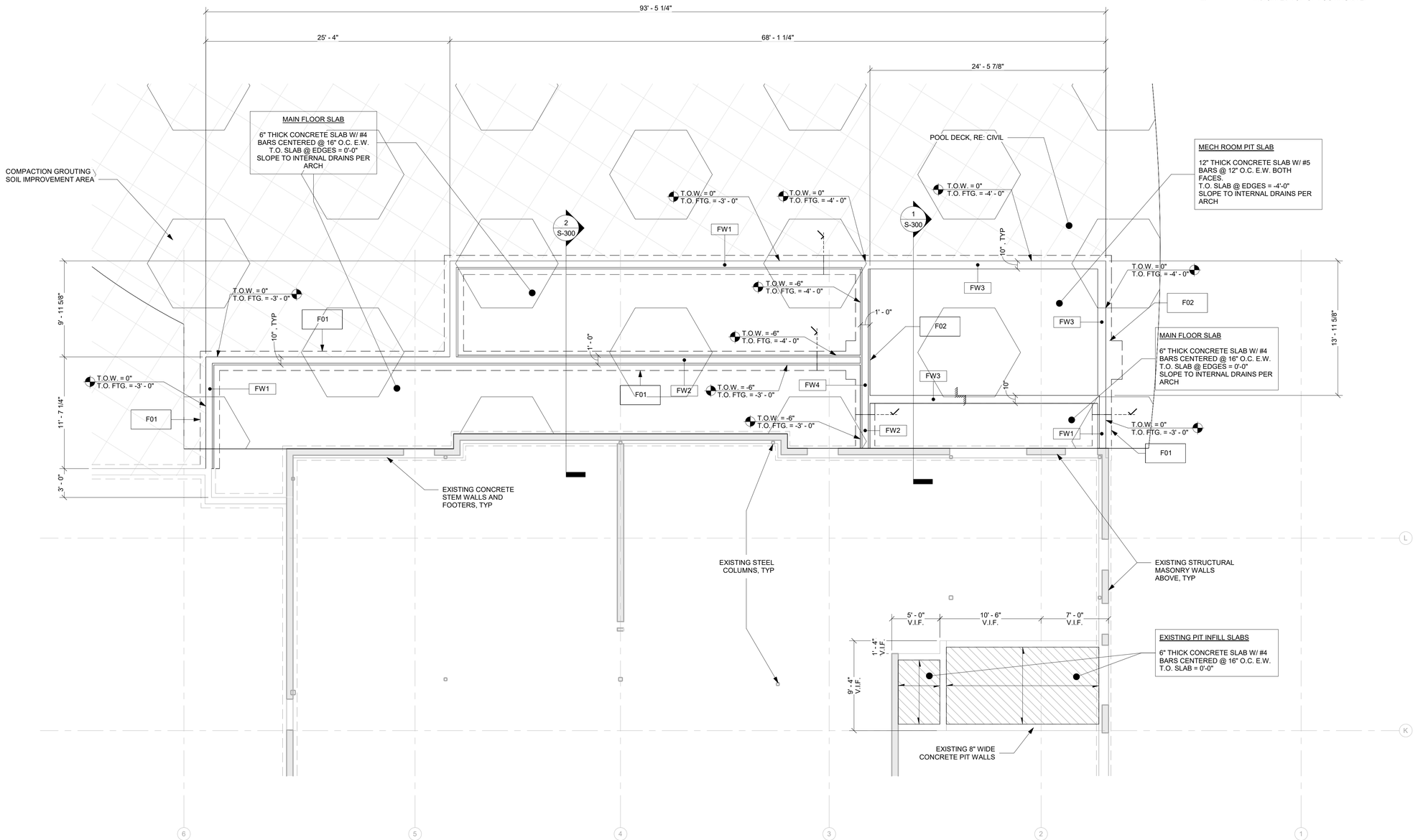
FOUNDATION PLAN NOTES:

1. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH THE DRAWINGS PRIOR TO CONSTRUCTION.
2. SEE STRUCTURAL GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.
3. MASONRY WALLS THAT BEAR ON FOUNDATION WALLS ARE SHOWN ON FRAMING PLANS.
4. COMPACTION GROUT BENEATH ALL NEW SLAB ON GRADE AREAS.
5. GROUT COLUMNS SHALL BE SPACED THROUGHOUT THE SLAB ON GRADE AREAS ACCORDING TO THE GEOTECHNICAL PLANS.

1. F# INDICATES FOOTING MARK #. SEE FOOTING SCHEDULE.
2. FW# INDICATES FOUNDATION WALL MARK #. SEE FOUNDATION WALL SCHEDULE.
3. INDICATES TOP OF WALL STEP
4. INDICATES TOP OF FOOTING STEP



1 FOUNDATION PLAN

S-101 — 3/16" = 1'-0"

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NO.	DATE:	TITLE/PURPOSE:
1	3/22/2024	SITE PLAN 02

SCALE: As indicated
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PROJECT #: 2023-493.001
TITLE: FOUNDATION PLAN

SHEET #: S-101

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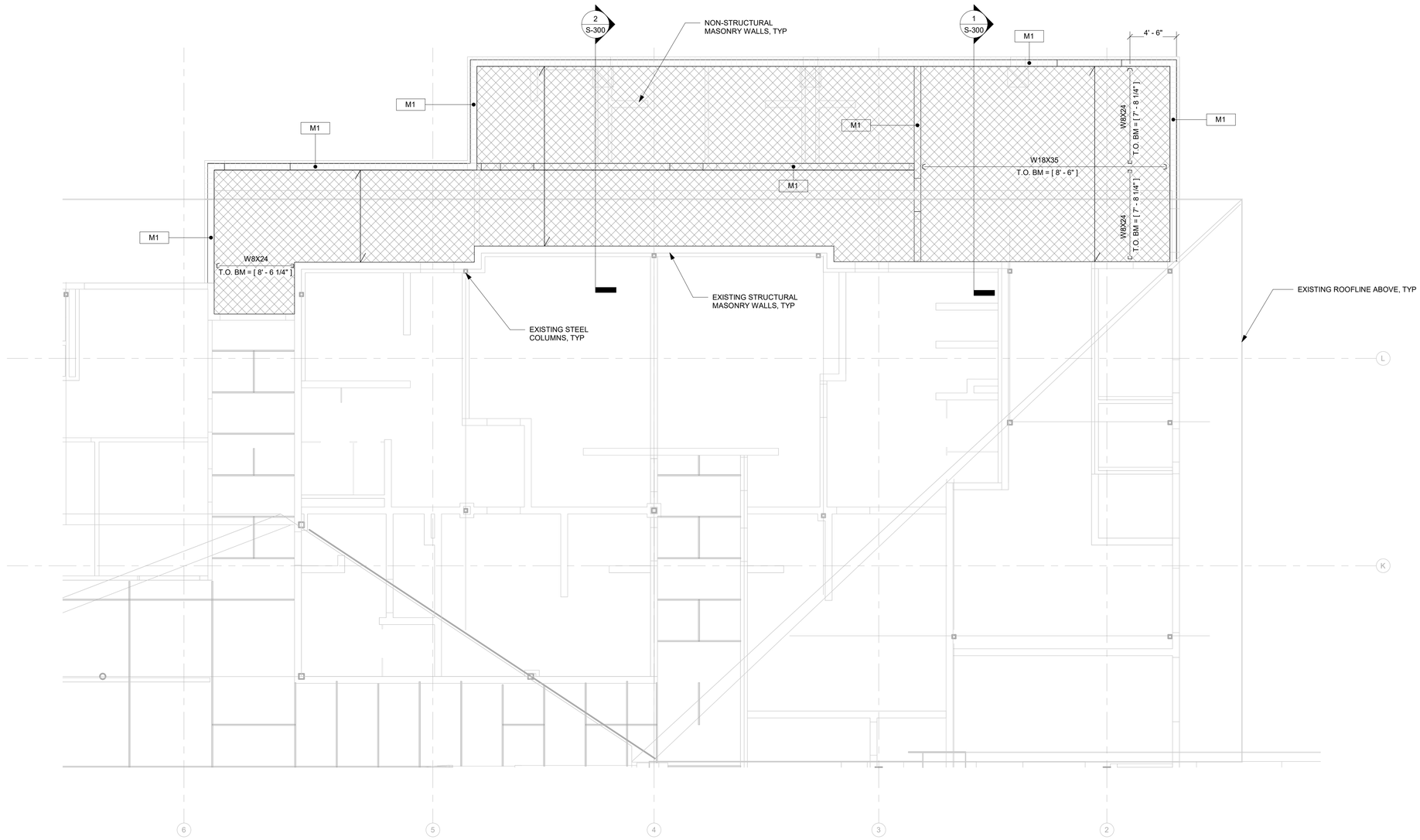
DECKING AND DIAPHRAGM NOTES & KEY:

1. ROOF DECKING TO BE 3" X 18 GAUGE TYPE N GALVANIZED METAL ROOF DECK. ALL PANEL ENDS TO BE LAPPED AT SUPPORTS, BUTTED ENDS NOT PERMITTED.

: INDICATES TYPE 1 ROOF DIAPHRAGM. FASTEN WITH 5/8" DIAMETER SPOT WELDS IN A 36/7 PATTERN TO ALL SUPPORTS AND AT PERIMETER. FASTEN SIDELAPS WITH (7)-#12 SCREWS PER SPAN.

FRAMING PLAN NOTES:

1. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH THE DRAWINGS PRIOR TO CONSTRUCTION.
2. SEE STRUCTURAL GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.
3. M# INDICATES MASONRY WALL MARK #. SEE MASONRY WALL SCHEDULE.
4. INDICATES TOP OF WALL STEP



1 S-102 ROOF FRAMING PLAN

3/16" = 1'-0"

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NO.	DATE:	TITLE/PURPOSE:
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SCALE: As indicated
ISSUE DATE: 03/22/2024
PROJECT #: 2023-493.001
TITLE: ROOF FRAMING PLAN

SHEET #:
S-102

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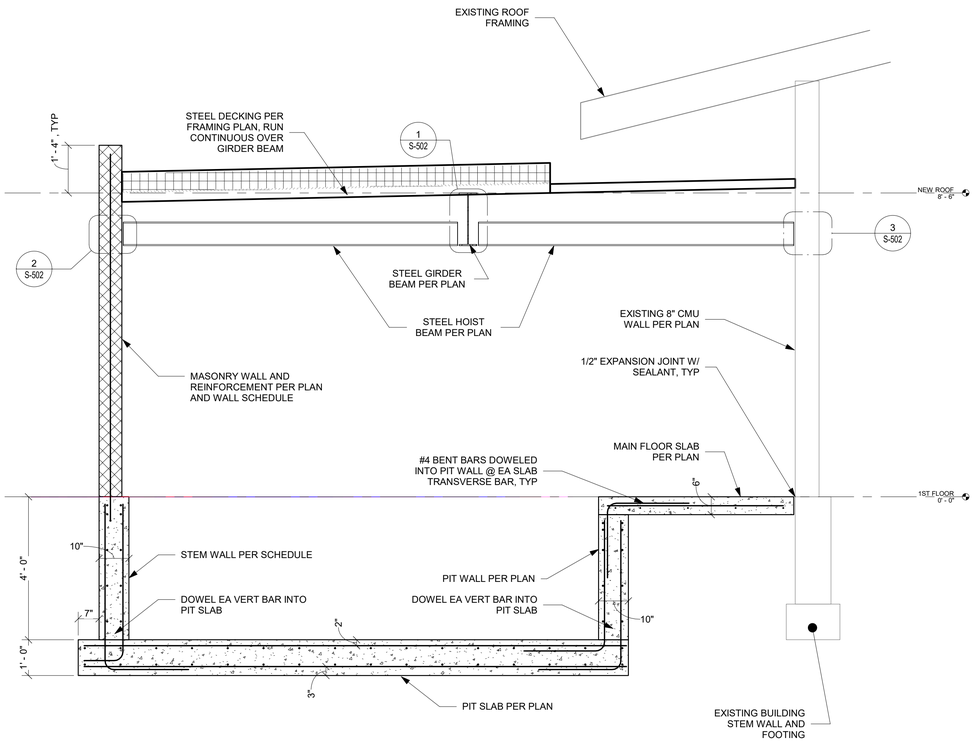
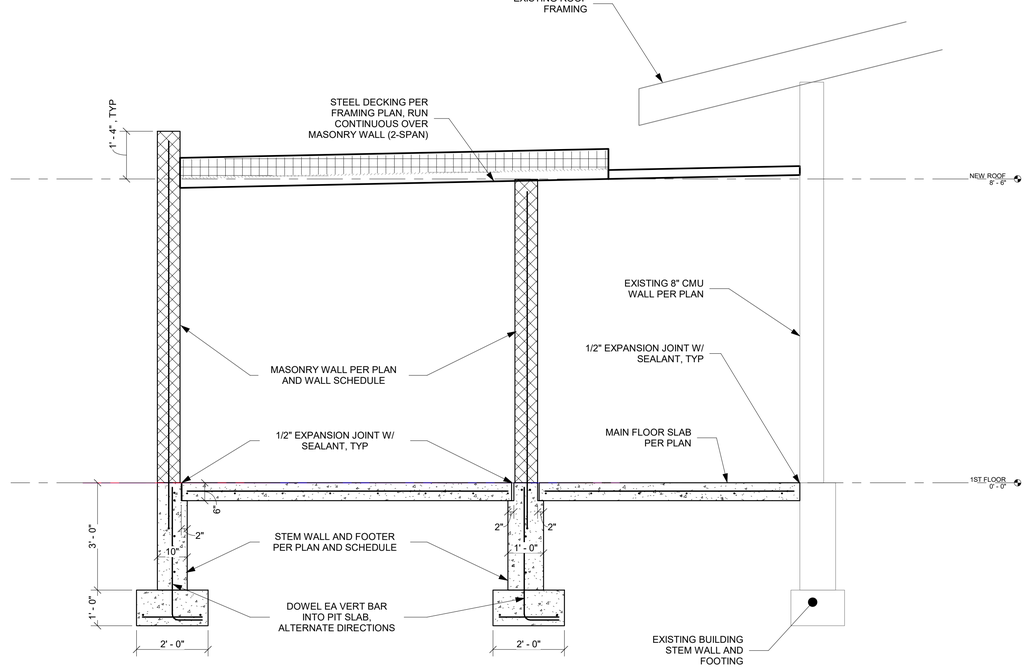


1 S-300 **MECH ROOM PIT SECTION**
1/2" = 1'-0"



2 S-300 **TYP STRUCTURAL SECTION**
1/2" = 1'-0"

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Mountain Recreation Eagle Pool

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NO.	DATE:	TITLE/PURPOSE:
1	3/22/2024	SITE PLAN 02

SCALE: **1/2" = 1'-0"**
ISSUE DATE: **03/22/2024**
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TITLE: **STRUCTURAL SECTIONS**

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S-300

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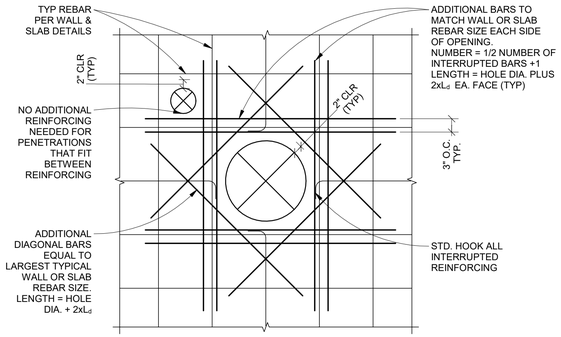
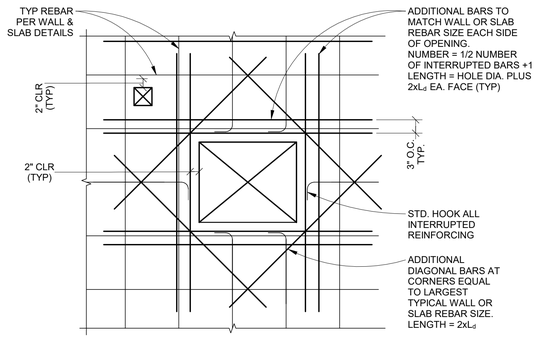


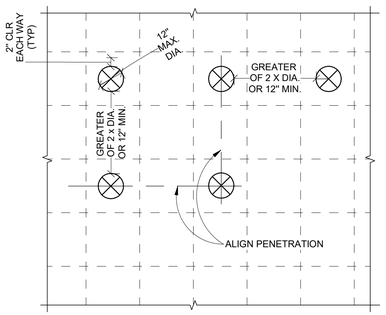
1 S-500 TYPICAL WALL & SLAB ROUND PENETRATION DETAIL

3/4" = 1'-0"



2 S-500 TYPICAL WALL & SLAB RECTANGULAR PENETRATION DETAIL

3/4" = 1'-0"



3 S-500 TYPICAL SMALL PENETRATIONS

3/4" = 1'-0"

REINFORCING HOOKS AND SPLICE TABLE (F'c = 4500 PSI, Fy=60 KSI, BAR SPACING = 6 IN. MIN.)

BAR SIZE	DIAMETER (d_b) (INCHES)	DEVELOPMENT LENGTH (L_d) (INCHES)		CLASS B LAP SPLICE (INCHES)		90° STD HOOK (INCHES)		180° STD HOOK (Y1) (INCHES)	INSIDE BEND DIA (D1) (INCHES)
		"TOP" BARS	OTHER	"TOP" BARS	OTHER	HOOK	L_{dh}		
		REINFORCING BARS IN TENSION							
#3	0.375	18	14	24	19	6	7	4	2.25
#4	0.5	24	18	32	24	8	9	5	3
#5	0.625	30	23	39	30	10	11	5	3.75
#6	0.75	35	27	46	36	12	13	6	4.5
#7	0.875	51	40	67	52	14	16	7	5.25
#8	1	59	45	77	59	16	18	8	6
#9	1.125	66	51	86	67	19	20	11	9.5
#10	1.25	73	56	95	73	22	22	12	10.75
#11	1.375	80	62	104	81	24	25	13	12
#14	1.75	102	79	133	103	31	31	18	18.5
#18	2.25	131	101	171	132	41	40	23	24

STIRRUP AND TIE HOOK SCHEDULE

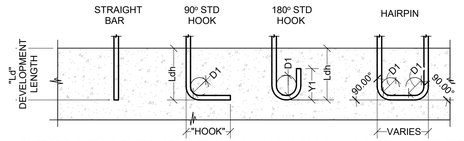
BAR SIZE	DIAMETER (d_b) (INCHES)	90° HOOK (INCHES)	135° HOOK (INCHES)	180° HOOK (Y2) (INCHES)	INSIDE HOOK DIA (D2) (INCHES)
#3	0.375	5	5	4	1.5
#4	0.5	5	5	4	2
#5	0.625	6	6	5	2.5
#6	0.75	12	8	6	4.5
#7	0.875	14	9	7	5.25
#8	1	16	10	8	6

NOTES:

1. "TOP" BARS SHALL BE HORIZONTAL REINFORCEMENT PLACED SO THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE DEVELOPMENT LENGTH OR SPLICE.
2. CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED SHALL
   A) NOT BE LESS THAN d/b, HAVE CLEAR COVER NOT LESS THAN d/b, AND STIRRUPS OR TIES THROUGHOUT Ld NOT LESS THAN THE CODE MINIMUM OR;
   B) CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN 2d/b AND CLEAR COVER NOT LESS THAN d/b.
   WHERE d/b = DIAMETER OF REINFORCING BAR AND
   Ld = DEVELOPMENT LENGTH.
3. ALL LAP SPLICES SHALL BE CLASS B UNLESS NOTED OTHERWISE.
4. WHEN SPLICING BAR OF DIFFERENT SIZE, THE LENGTH OF LAP SHALL BE GOVERNED BY THE LARGER DIAMETER BAR.
5. SPLICES ARE TO BE MADE SO THAT THE GIVEN DISTANCES TO FACE OF CONCRETE WILL BE MAINTAINED.
6. SPLICES SHALL BE STAGGERED TO GIVE 12 INCHES CLEAR BETWEEN ENDS OF ADJACENT SPLICES. IF BARS ARE SPACED CLOSER THAN 6 INCHES OR 6 BAR DIAMETERS.

4 S-500 STANDARD REINFORCING HOOKS AND SPLICE SCHEDULES

3/4" = 1'-0"

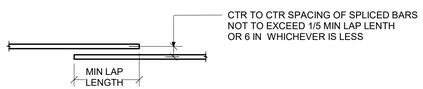


5 S-500 PRIMARY REINFORCING HOOKS AND EMBEDMENT

3/4" = 1'-0"

6 S-500 MAX REINFORCING OFFSET BEND

3/4" = 1'-0"

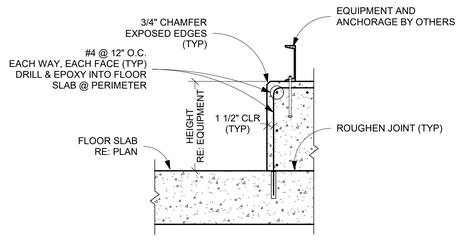


7 S-500 REINFORCING LAP SPLICE

3/4" = 1'-0"

8 S-500 TIE OR STIRRUP BENDS AND ENDS

3/4" = 1'-0"



9 S-500 TYPICAL EQUIPMENT PADS

3/4" = 1'-0"

FOUNDATION WALL SCHEDULE

WALL TAG	CONCRETE WALL WIDTH	MINIMUM VERTICAL REINFORCING	MINIMUM HORIZONTAL REINFORCING
FW1	10"	#5 BARS CENTERED @ 12" O.C.	#4 BARS CENTERED @ 12" O.C.
FW2	12"	#5 BARS CENTERED @ 12" O.C.	#4 BARS CENTERED @ 12" O.C.
FW3	10"	#5 BARS EA FACE @ 12" O.C.	#4 BARS EA FACE @ 12" O.C.
FW4	12"	#5 BARS EA FACE @ 12" O.C.	#4 BARS EA FACE @ 12" O.C.

10 S-500 FOUNDATION WALL SCHEDULE

3/4" = 1'-0"

FOOTING SCHEDULE

WALL TAG	FOOTING TYPE	DIMENSIONS	MINIMUM REINFORCING
F01	CONTINUOUS	12" HEIGHT X 2'-0" WIDTH	(2) #5 BARS CONTINUOUS & #5 BARS TRANSVERSE @ 12" O.C.
F02	ISOLATED	12" HEIGHT X 4'-0" WIDTH X 4'-0" LENGTH	(4) #5 BARS EACH WAY

11 S-500 FOOTING SCHEDULE

3/4" = 1'-0"

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NO.	DATE:	TITLE/PURPOSE:
1	3/22/2024	SITE PLAN 02

SCALE: **3/4" = 1'-0"**
ISSUE DATE: **03/22/2024**
PROJECT #: **2023-493.001**
TITLE: **TYPICAL CONCRETE DETAILS**

SHEET #:
S-500

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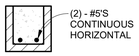
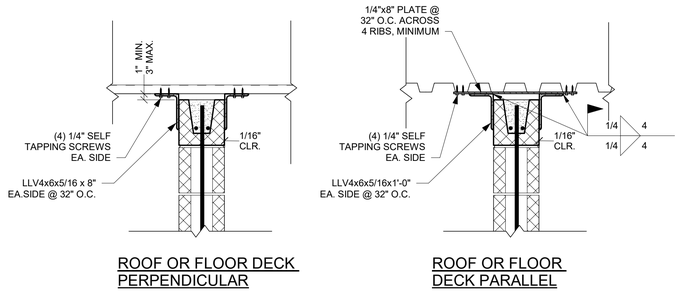
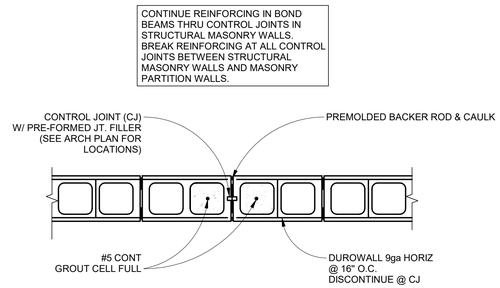


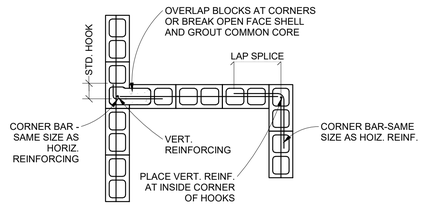
1 TYPICAL CMU BOND BEAM
S-501 — 1" = 1'-0"



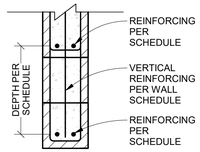
2 TYPICAL CMU BRACING AT TOP OF PARTITION WALLS
S-501 — 1" = 1'-0"



3 TYPICAL CMU CONTROL JOINT
S-501 — 1" = 1'-0"

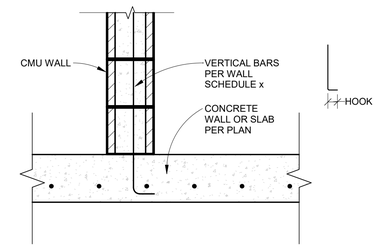


4 TYPICAL CMU WALL CORNER REINFORCING
S-501 — 1/2" = 1'-0"

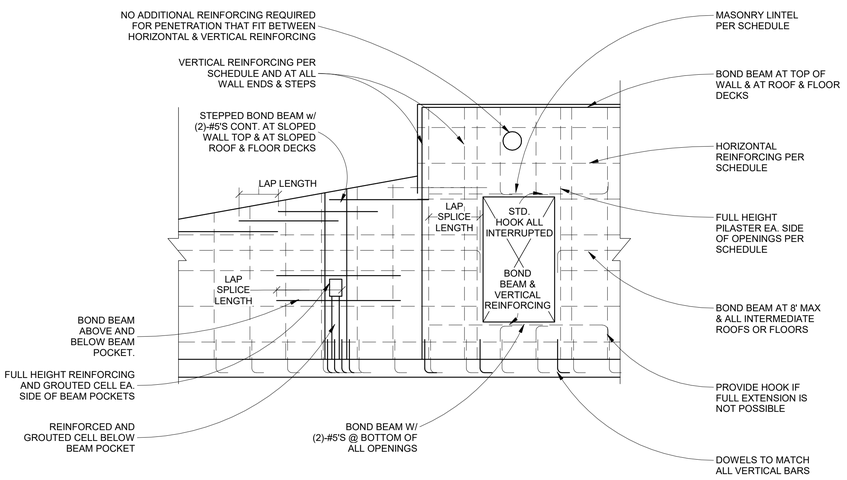


MASONRY LINTEL SCHEDULE			
OPENING WIDTH	LINTEL DEPTH	REINFORCEMENT	PIER
0 TO 4' - 0"	1' - 4"	(4)-#5'S, (2) EACH AT TOP & BOTTOM	(1) REINFORCED AND GROUTED CELL EACH SIDE OF OPENING
4' - 1" TO 8' - 0"	2' - 0"	(4)-#5'S, (2) EACH AT TOP & BOTTOM	(1) REINFORCED AND GROUTED CELL EACH SIDE OF OPENING
8' -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

5 TYPICAL MASONRY LINTEL
S-501 — 1" = 1'-0"



6 TYPICAL MASONRY WALL TO CONCRETE CONNECTION
S-501 — 1" = 1'-0"



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.

7 MASONRY WALL SCHEDULE
S-501 — 1/4" = 1'-0"

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

NO.	DATE:	TITLE/PURPOSE:
1	3/22/2024	SITE PLAN 02

SCALE: **As indicated**
ISSUE DATE: **03/22/2024**
PROJECT #: **2023-493.001**
TITLE: **TYPICAL CMU DETAILS**

SHEET #:
S-501

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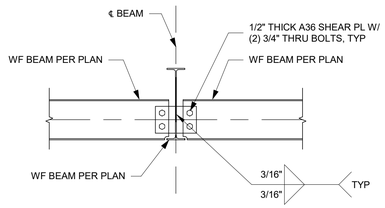
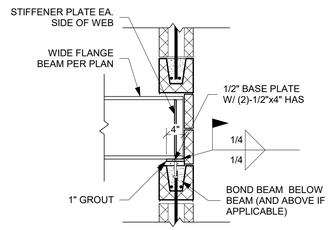
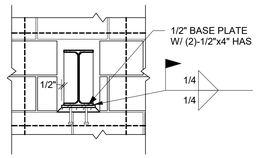


ELEVATION VIEW



CROSS SECTION



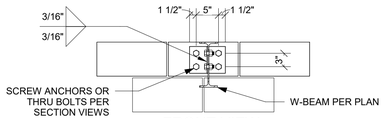
ELEVATION VIEW

1 S-502 TYPICAL STEEL BEAM TO BEAM CONNECTION

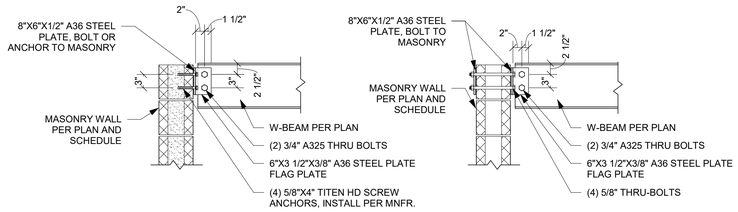
3/4" = 1'-0"

2 S-502 TYPICAL STEEL BEAM POCKET AT WALL

3/4" = 1'-0"



FRONT VIEW



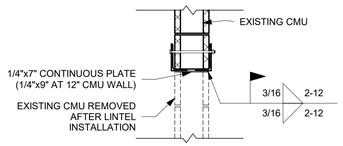
SECTION VIEW IF EXISTING CMU WALL IS GROUTED

SECTION VIEW IF EXISTING CMU WALL IS NOT GROUTED

3 S-502 TYPICAL STEEL BEAM CONNECTION AT EXISTING WALL

3/4" = 1'-0"

ELEVATION VIEW



SECTION VIEW

4 S-502 TYPICAL NEW OPENING IN EXISTING CMU WALL

3/4" = 1'-0"

ELEVATION VIEW

5 S-502 TYPICAL INFILL OF EXISTING CMU WALL OPENING

3/4" = 1'-0"

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NO.	DATE:	TITLE/PURPOSE:
1	3/22/2024	SITE PLAN 02

SCALE: **3/4" = 1'-0"**
ISSUE DATE: **03/22/2024**
PROJECT #: **2023-493.001**
TITLE: **TYPICAL STEEL DETAILS**

SHEET #:
S-502

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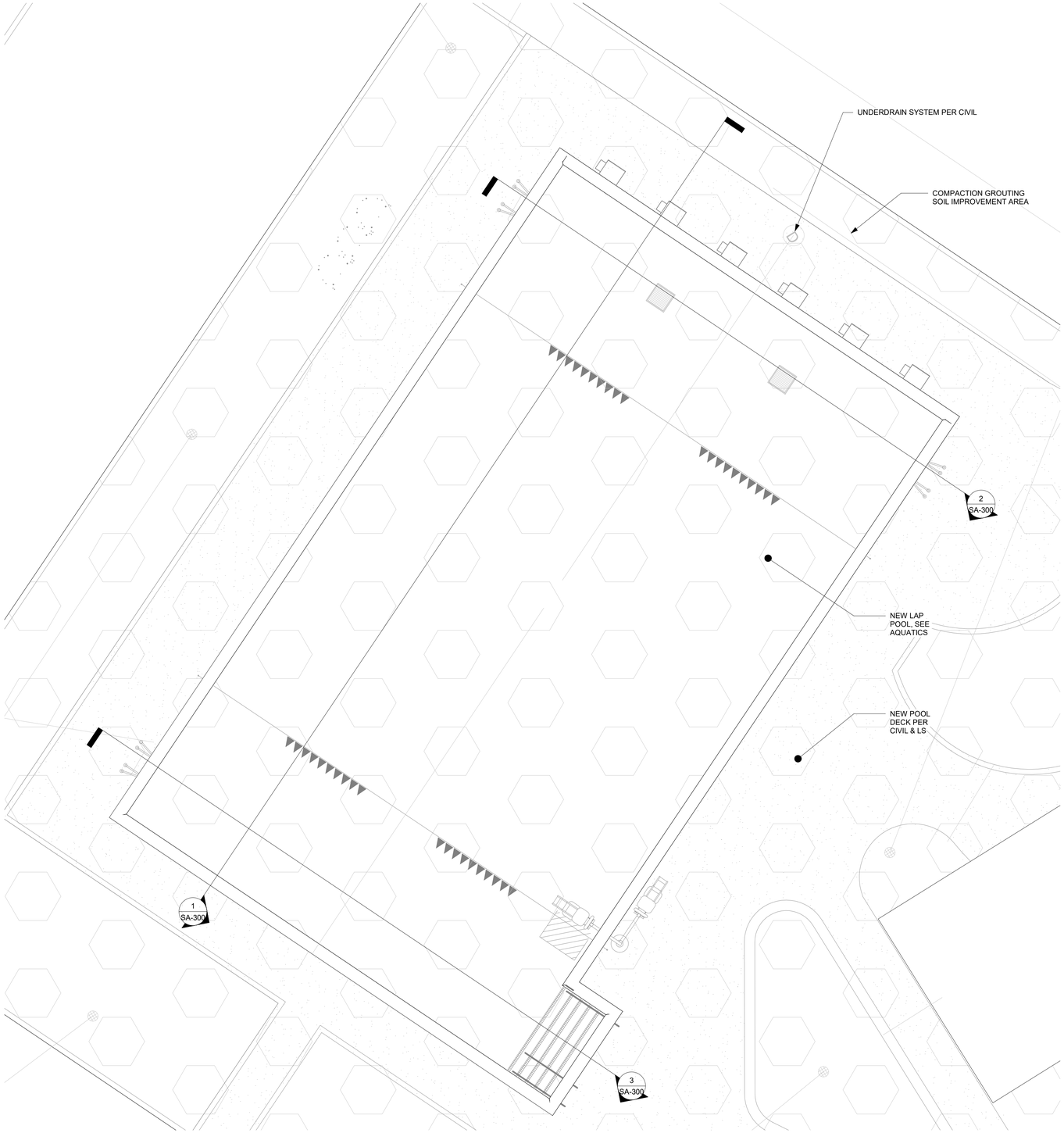

1 SA-101 **LAP POOL PLAN**

3/16" = 1'-0"

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Mountain Recreation Eagle Pool

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NO.	DATE:	TITLE/PURPOSE:
1	3/22/2024	SITE PLAN 02

SCALE: **3/16" = 1'-0"**
ISSUE DATE: **03/22/2024**
PROJECT #: **2023-493.001**
TITLE: **LAP POOL PLAN**

SHEET #:
SA-101

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1 SA-102 **LEISURE POOL PLAN**

3/16" = 1'-0"

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NO.	DATE:	TITLE/PURPOSE:
1	3/22/2024	SITE PLAN 02

SCALE: **3/16" = 1'-0"**
ISSUE DATE: **03/22/2024**
PROJECT #: **2023-493.001**
TITLE: **LEISURE POOL PLAN**

SHEET #:
SA-102

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1 SA-103 **SLIDE FOUNDATION PLAN**
3/16" = 1'-0"

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NO.	DATE:	TITLE/PURPOSE:
1	3/22/2024	SITE PLAN 02

SCALE: **3/16" = 1'-0"**
ISSUE DATE: **03/22/2024**
PROJECT #: **2023-493.001**
TITLE: **SLIDE FOUNDATION PLAN**

SHEET #:
SA-103

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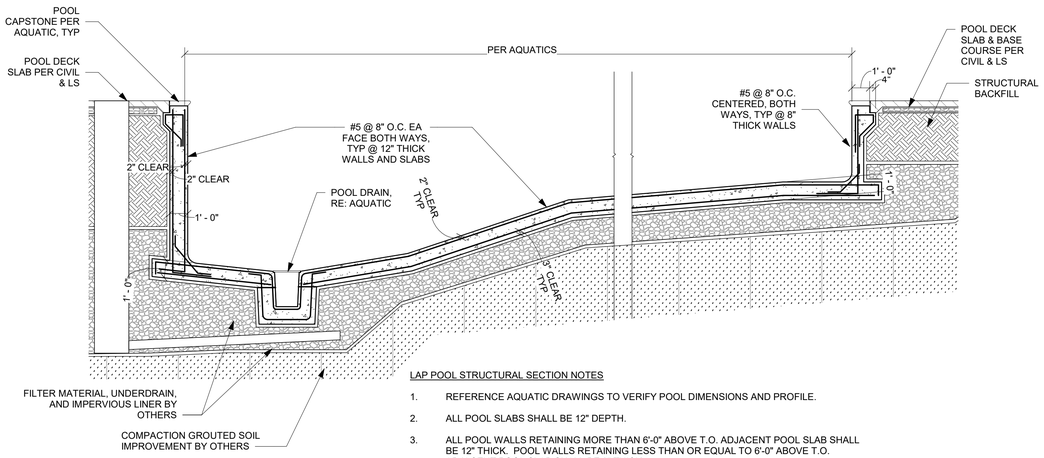
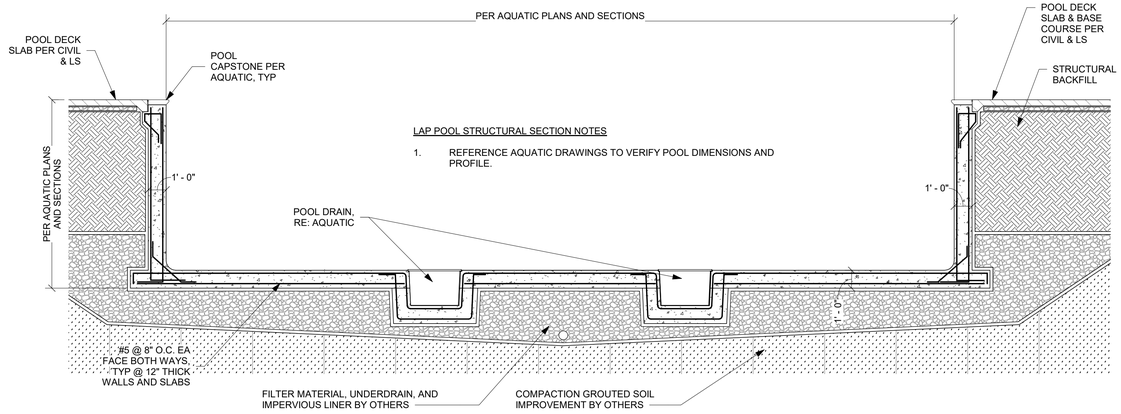


LAP POOL STRUCTURAL SECTION NOTES

1. REFERENCE AQUATIC DRAWINGS TO VERIFY POOL DIMENSIONS AND PROFILE.
2. ALL POOL SLABS SHALL BE 12" DEPTH.
3. ALL POOL WALLS RETAINING MORE THAN 6'-0" ABOVE T.O. ADJACENT POOL SLAB SHALL BE 12" THICK. POOL WALLS RETAINING LESS THAN OR EQUAL TO 6'-0" ABOVE T.O. ADJACENT POOL SLAB SHALL BE 8" THICK.

1 SA-300 LAP POOL LENGTHWISE STRUCTURAL SECTION

1/4" = 1'-0"

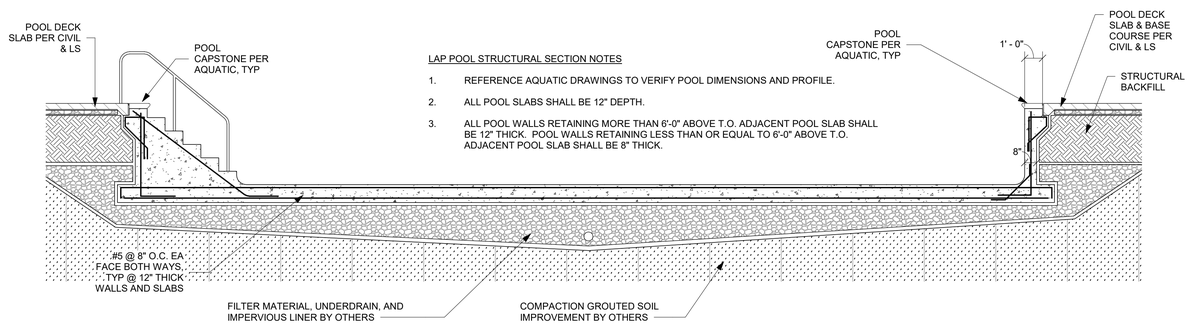


LAP POOL STRUCTURAL SECTION NOTES

1. REFERENCE AQUATIC DRAWINGS TO VERIFY POOL DIMENSIONS AND PROFILE.

2 SA-300 LAP POOL DEEP END STRUCTURAL SECTION

1/4" = 1'-0"

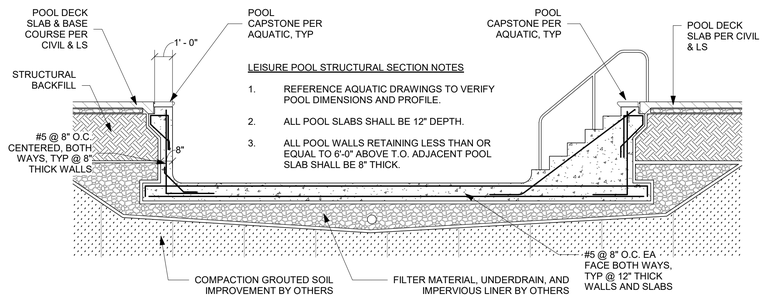


LAP POOL STRUCTURAL SECTION NOTES

1. REFERENCE AQUATIC DRAWINGS TO VERIFY POOL DIMENSIONS AND PROFILE.
2. ALL POOL SLABS SHALL BE 12" DEPTH.
3. ALL POOL WALLS RETAINING MORE THAN 6'-0" ABOVE T.O. ADJACENT POOL SLAB SHALL BE 12" THICK. POOL WALLS RETAINING LESS THAN OR EQUAL TO 6'-0" ABOVE T.O. ADJACENT POOL SLAB SHALL BE 8" THICK.

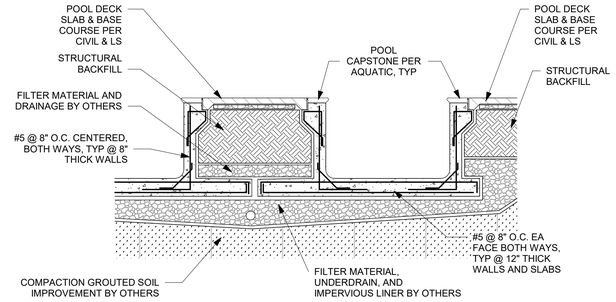
3 SA-300 LAP POOL SHALLOW END STRUCTURAL SECTION THROUGH STAIRS

1/4" = 1'-0"



4 SA-300 LEISURE POOL STRUCTURAL SECTION THROUGH STAIRS

1/4" = 1'-0"



5 SA-300 LEISURE POOL ISLAND SECTION

1/4" = 1'-0"

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NO.	DATE:	TITLE/PURPOSE:
1	3/22/2024	SITE PLAN 02

SCALE: 1/4" = 1'-0"
ISSUE DATE: 03/22/2024
PROJECT #: 2023-493.001
TITLE: AQUATIC STRUCTURAL SECTIONS

SHEET #:
SA-300

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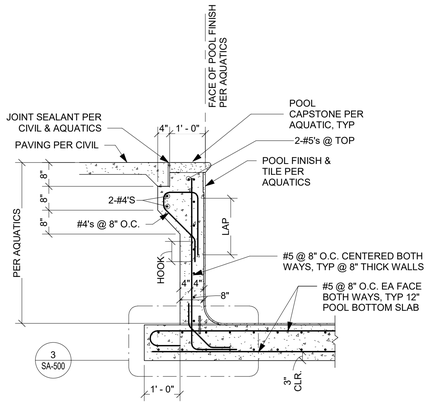
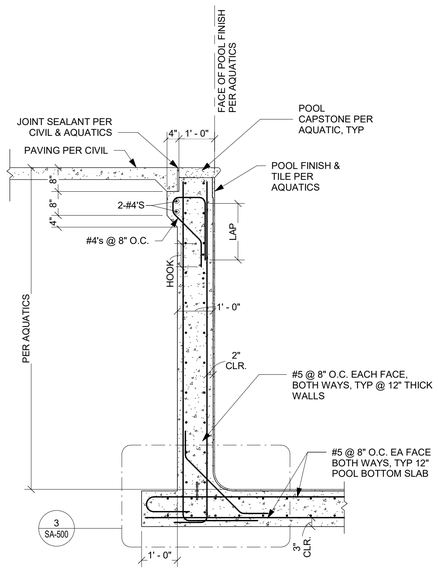


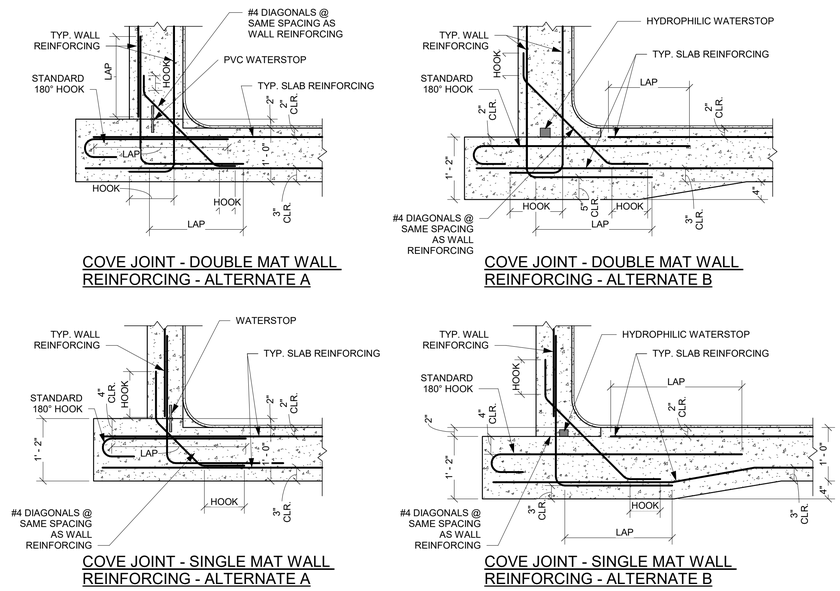
1 SA-500 TYP 8" POOL WALL SECTION

1/2" = 1'-0"



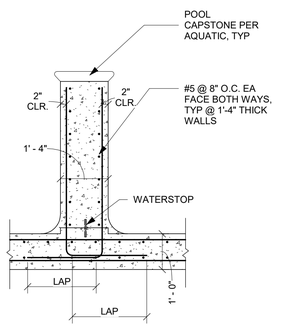
2 SA-500 TYPICAL 12" POOL WALL SECTION

1/2" = 1'-0"



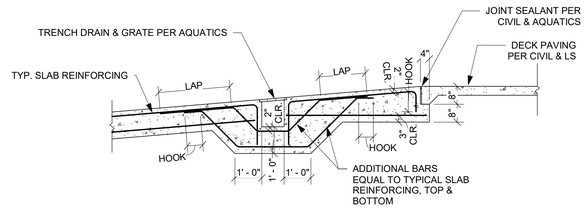
3 SA-500 TYPICAL SLAB-WALL COVE JOINT

3/4" = 1'-0"



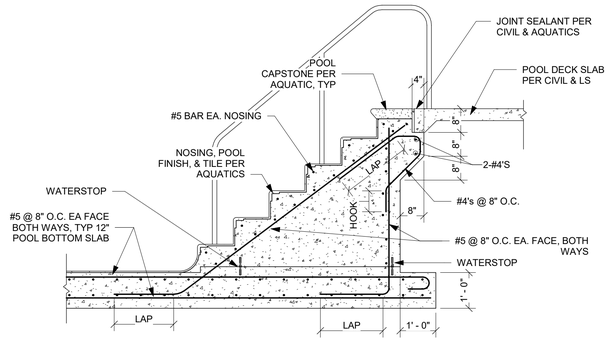
4 SA-500 TYP WING WALL SECTION

1/2" = 1'-0"



5 SA-500 TYPICAL ZERO DEPTH POOL ENTRY DETAIL

3/8" = 1'-0"



6 SA-500 TYPICAL POOL STAIR DETAIL

1/2" = 1'-0"

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TITLE: AQUATIC STRUCTURAL DETAILS

SHEET #:
SA-500

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

MECHANICAL HVAC NOTES AND SPECIFICATIONS

1. DUCTWORK DIMENSIONS LISTED ON THE DRAWINGS ARE CLEAR, INSIDE DIMENSIONS. WHEN DUCT LINER IS REQUIRED, INCREASE SHEET METAL DIMENSIONS ACCORDINGLY.
2. 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".
3. UNLESS INDICATED OTHERWISE, BRANCH TAKEOFFS ARE TO BE THE SAME SIZE AS THE DIFFUSER NECK SIZE INDICATED.
4. PROVIDE DUCT TRANSITIONS FROM EQUIPMENT CONNECTIONS TO DUCT SIZES INDICATED AS REQUIRED.
5. PROVIDE A FLEXIBLE CONNECTION TO THE INTAKE AND DISCHARGE OF ALL MECHANICAL EQUIPMENT HAVING ROTATING PARTS. FLEXIBLE CONNECTION SHALL COMPLY WITH ALL APPLICABLE CODES.
6. 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.
7. ALL SUPPLY, RETURN AND EXHAUST DUCTWORK SHALL BE SEALED AIRTIGHT WITH DUCT SEALANT (SMACNA SEAL CLASS "A") ALONG ALL SEAMS AND JOINTS.
8. 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.
9. 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.)
10. ALL UNLINED DUCTWORK THAT IS VISIBLE THROUGH THE AIR DEVICE SHALL BE PAINTED FLAT BLACK.
11. MAINTAIN A MINIMUM 10'-0" SEPARATION FROM OUTSIDE AIR INTAKES TO EXHAUST TERMINATIONS AND FLUE OUTLETS.
12. MAINTAIN A MINIMUM OF 15'-0" FROM OUTSIDE AIR INTAKES TO PLUMBING VENTS.
13. MAINTAIN A MINIMUM 3'-0" SEPARATION FROM EXHAUST TERMINATIONS TO OPERABLE WINDOWS AND DOORS.
14. ALL ELBOWS, BOTH HORIZONTAL AND VERTICAL, SHALL BE LONG RADIUS ELBOWS WHEREVER POSSIBLE, OR SHALL HAVE TURNING VANES WHERE SHOWN.
15. 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 OBD.
16. SPIN-IN FITTINGS SERVING VAV TERMINALS SHALL BE CONICAL WITHOUT MANUAL VOLUME DAMPERS.
17. RECTANGULAR BRANCH DUCT TAKEOFFS SHALL HAVE 45° TAKEOFFS AND ROUND DUCT TAKEOFFS SHALL BE CONICAL.
18. ALL JOB SITE DUCTWORK PRIOR TO INSTALLATION SHALL BE COVERED AND PROTECTED FROM DIRT, DUST, AND DAMAGE PER SMACNA STANDARDS. OPENINGS IN INSTALLED DUCTWORK DURING CONSTRUCTION SHALL BE SEALED CLOSED WITH PLASTIC TO PREVENT DUST AND DEBRIS INTRUSION INTO DUCTWORK SYSTEMS.
19. COORDINATE LOUVER, WALL CAP, AND AIR DEVICE PLACEMENT WITH BRICK OR BLOCK COURSING WHERE APPLICABLE.
20. COORDINATE THE LOCATION AND ELEVATION OF ALL EXPOSED DUCTWORK WITH THE ARCHITECT AT THE JOB SITE PRIOR TO INSTALLATION.
21. 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.
22. ALL DUCTWORK SERVING CHEMICAL STORAGE ROOMS SHALL BE CONSTRUCTED OF SCHEDULE 40 CPVC PIPE. PVC COATED STEEL DUCTWORK IS NOT ACCEPTABLE.
23. 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 TH ROOM HOUSING THE DDC COMPUTER. COORDINATE EXACT ROOM WITH THE OWNER.
24. MOTOR STARTERS SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR AS REQUIRED FOR ALL NEW MECHANICAL EQUIPMENT.

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
		EXISTING (DEMOLITION OR REMOVED)
		CONTROL WIRING
AD/AP		ACCESS DOOR/ACCESS PANEL
		POINT OF CONNECTION - NEW TO EXISTING
	X / Y	PIPE TAG - X=PIPE SIZE, Y=GPM
	X / XXX	X = SECTION/DETAIL NUMBER XXX = SHEET NUMBER WHERE SECTION/DETAIL IS DRAWN

MECHANICAL DEMOLITION GENERAL NOTES AND SPECIFICATIONS

1. 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.
2. 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.
3. COORDINATE DEMOLITION REQUIREMENTS WITH THE GENERAL CONTRACTOR.
4. COORDINATE EXTENT OF DEMOLITION WITH THE NEW CONSTRUCTION AS SHOWN IN THESE DOCUMENTS.
5. EXISTING MECHANICAL WORK IS SHOWN LIGHT.
6. 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.
7. ALL UNUSED TEMPERATURE CONTROL WIRING, WIRE MOLD, PNEUMATIC TUBING AND CONTROL COMPONENTS SHALL BE REMOVED.
8. ALL UNUSED HANGERS AND SUPPORTS SHALL BE REMOVED.
9. 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.
10. THE GENERAL CONTRACTOR SHALL PATCH AND PAINT WALLS TO MATCH EXISTING AT THE DEMOLISHED CONTROLS.
11. THE GENERAL CONTRACTOR SHALL PATCH AND SEAL UNUSED ROOF PENETRATIONS AT DEMOLISHED MECHANICAL TO MATCH EXISTING CONDITIONS.
12. THE GENERAL CONTRACTOR SHALL PATCH THE CEILING, ROOF, AND WALLS TO MATCH EXISTING AT DEMOLISHED HANGERS AND SUPPORTS.
13. THE GENERAL CONTRACTOR SHALL MAKE REPAIRS TO ALL EXISTING BUILDING COMPONENTS THAT HAVE BEEN AFFECTED BY THE DEMOLITION OF MECHANICAL SYSTEMS.
14. 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 HVAC INSULATION NOTES AND SPECIFICATIONS

1. ALL RECTANGULAR SUPPLY, RETURN, AND TRANSFER DUCTWORK SHALL BE LINED WITH 1" DUCT LINER, UNLESS NOTED OTHERWISE.
2. ALL CONCEALED ROUND DUCTWORK SHALL BE WRAPPED WITH 1-½" DUCT WRAP WITH VAPOR BARRIER JACKET, MINIMUM R-6.
3. OUTSIDE AIR DUCTWORK SHALL BE WRAPPED WITH 2" DUCT WRAP WITH VAPOR BARRIER JACKET, MINIMUM R-8. NO DUCT LINER ALLOWED.
4. FLEXIBLE DUCTWORK SHALL BE WRAPPED WITH FIBERGLASS INSULATION WITH VAPOR BARRIER JACKET, MINIMUM R-6.
5. ALL EXPOSED SPIRAL ROUND DUCTWORK SHALL NOT BE REQUIRED TO BE INSULATED. (LINED WITH 1" DUCT LINER).
6. ALL EXHAUST DUCTWORK SHALL NOT BE REQUIRED TO BE INSULATED, UNLESS NOTED OTHERWISE.
7. 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.
8. 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.
9. 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.
10. INSULATE HEATING WATER PIPING 1-1/2" AND SMALLER WITH 1-1/2" FIBERGLASS PIPE INSULATION WITH ALL SERVICE JACKET. INSULATE HEATING WATER PIPING 2" AND LARGER WITH 2" PIPE INSULATION WITH ALL SERVICE JACKET.
11. INSULATE CHILLED WATER PIPING WITH 1-1/2" FIBERGLASS PIPE INSULATION WITH ALL SERVICE JACKET.

HVAC LEGEND

ABBV.	SYMBOL	DESCRIPTION
MCD		MOTORIZED CONTROL DAMPER
		BACKDRAFT DAMPER
MVD		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
	$P	WALL SWITCH WITH PILOT LIGHT
	T H	THERMOSTAT / HUMIDISTAT
	T H CO2	TEMPERATURE / HUMIDITY / CARBON DIOXIDE SENSOR
	T CO2 / T H TM CO	COMBINATION TEMPERATURE SENSORS
	EPO	EMERGENCY POWER OFF SWITCH
	OS	OCCUPANCY SENSOR
	S	SMOKE DETECTOR
	P	PRESSURE SENSOR
	MS	MOTOR STARTER
	V	VELOCITY SENSOR
	FMD	ANALOG FLOW MEASURING DEVICE
	VFD	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
	4 5	OFFSET DUCT UP / DOWN IN DIRECTION OF ARROW
		CONICAL SPIN-IN FITTING WITH MANUAL VOLUME DAMPER
		CONICAL SPIN-IN FITTING
		45° TAKEOFF
		STANDARD RADIUS ELBOW
	10x8	NEW RECTANGULAR DUCTWORK - WIDTH x DEPTH
	10"ø	NEW ROUND DUCTWORK - DIAMETER
	10x8ø	NEW OVAL DUCTWORK - WIDTH x DEPTH
	(E)10x8	EXISTING DUCTWORK TO REMAIN
	10x8	EXISTING DUCTWORK TO BE REMOVED
CD		CEILING DIFFUSER (FOUR WAY THROW PATTERN)
CD	EQUALS	CEILING DIFFUSER (TWO WAY THROW PATTERN)
CD	EQUALS	CEILING DIFFUSER (ONE WAY THROW PATTERN)
CD	EQUALS	CEILING DIFFUSER (THREE WAY THROW PATTERN)
CD	EQUALS	CEILING DIFFUSER (TWO WAY THROW PATTERN)
SD		SLOT DIFFUSER
RG/EG		RETURN OR EXHAUST REGISTER OR GRILLE
RG		RETURN GRILLE WITH SOUND BOOT
VAV		VAV TERMINAL UNIT
		FLEXIBLE DUCTWORK
		AIRFLOW - RETURN/EXHAUST
		AIRFLOW - SUPPLY
		SOUND ATTENUATOR

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

MECHANICAL GENERAL NOTES AND SPECIFICATIONS

1. 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.
2. MECHANICAL WORK SHALL COMPLY WITH ALL APPLICABLE CODES. VERIFY ALL REQUIREMENTS PRIOR TO SUBMITTING BID OR COMMENCING WORK.
3. 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 LISTED ON THE DRAWINGS.
4. 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.
5. 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.
6. 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.
7. 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.
8. REFER TO THE ARCHITECTURAL DRAWINGS FOR ROOFING DETAILS SPECIFIC TO THIS PROJECT.
9. 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.
10. PROVIDE EQUIPMENT LABELS FOR ALL MAJOR EQUIPMENT, INCLUDING BUT NOT LIMITED TO AIR HANDLING SYSTEMS, FANS, CONTROLS, AND DAMPERS. LABELS SHALL BE AFFIXED OR ADHERED DIRECTLY TO EQUIPMENT. EQUIPMENT TO BE LABELED WITH ENGRAVED PLASTIC LAMINATE SIGNS.
11. 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.
12. PROVIDE VALVE TAGS ON EVERY VALVE, COCK, AND CONTROL DEVICE IN EACH PIPING SYSTEM. LIST EACH TAGGED VALVE IN VALVE SCHEDULE FOR EACH PIPING SYSTEM. MOUNTED FRAMED VALVE SCHEDULE IN MAIN MECHANICAL ROOM. VALVE TAGS 1-1/2" DIAMETER OF PLASTIC LAMINATE OR BRASS WITH PIPING SYSTEM ABBREVIATION IN 1/4" HIGH LETTERS AND SEQUENCED VALVE NUMBERS IN 1/2" HIGH LETTERS.
13. 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 WITH PLUS 10 PERCENT TO MINUS 5 PERCENT OF LISTED VALUES.
14. 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.
15. 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.
16. 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.
17. 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.
18. ACCESS DOORS SHALL BE INSTALLED IN ORDER TO PROVIDE ACCESS TO MECHANICAL SYSTEMS REQUIRING ACCESS FOR SERVICING OR ADJUSTMENT LOCATED ABOVE INACCESSIBLE 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.

HVAC PIPING NOTES AND SPECIFICATIONS

1. 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.
2. 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.
3. REFRIGERANT PIPING SHALL BE TYPE "L" OR "ACR" COPPER, UNLESS NOTED OTHERWISE.
4. ALL PIPING SHOWN IS CONCEALED ABOVE CEILINGS UNLESS INDICATED OTHERWISE.
5. PROVIDE PIPING SLEEVES AT ALL WALL PENETRATIONS. REFER TO SPECIFICATION FOR EXACT REQUIREMENTS.
6. PROVIDE ISOLATION/SHUT-OFF VALVES AT ALL PIPING BRANCHES THAT HAVE TWO OR MORE HYDRONIC DEVICES.
7. 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.
8. 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 (5) 90° ELBOWS. WHERE THESE REQUIREMENTS ARE NOT POSSIBLE DUE TO SPACE CONSTRAINTS, FLEXIBLE CONNECTIONS AT THE DEVICE SHALL BE PROVIDED.

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

NO.	DATE:	TITLE/PURPOSE:
1	3/22/2024	SITE PLAN 02

SCALE: **NONE**
ISSUE DATE: **03/22/2024**
PROJECT #: **23079**
TITLE: **MECHANICAL COVER SHEET**

SHEET #:
M-000

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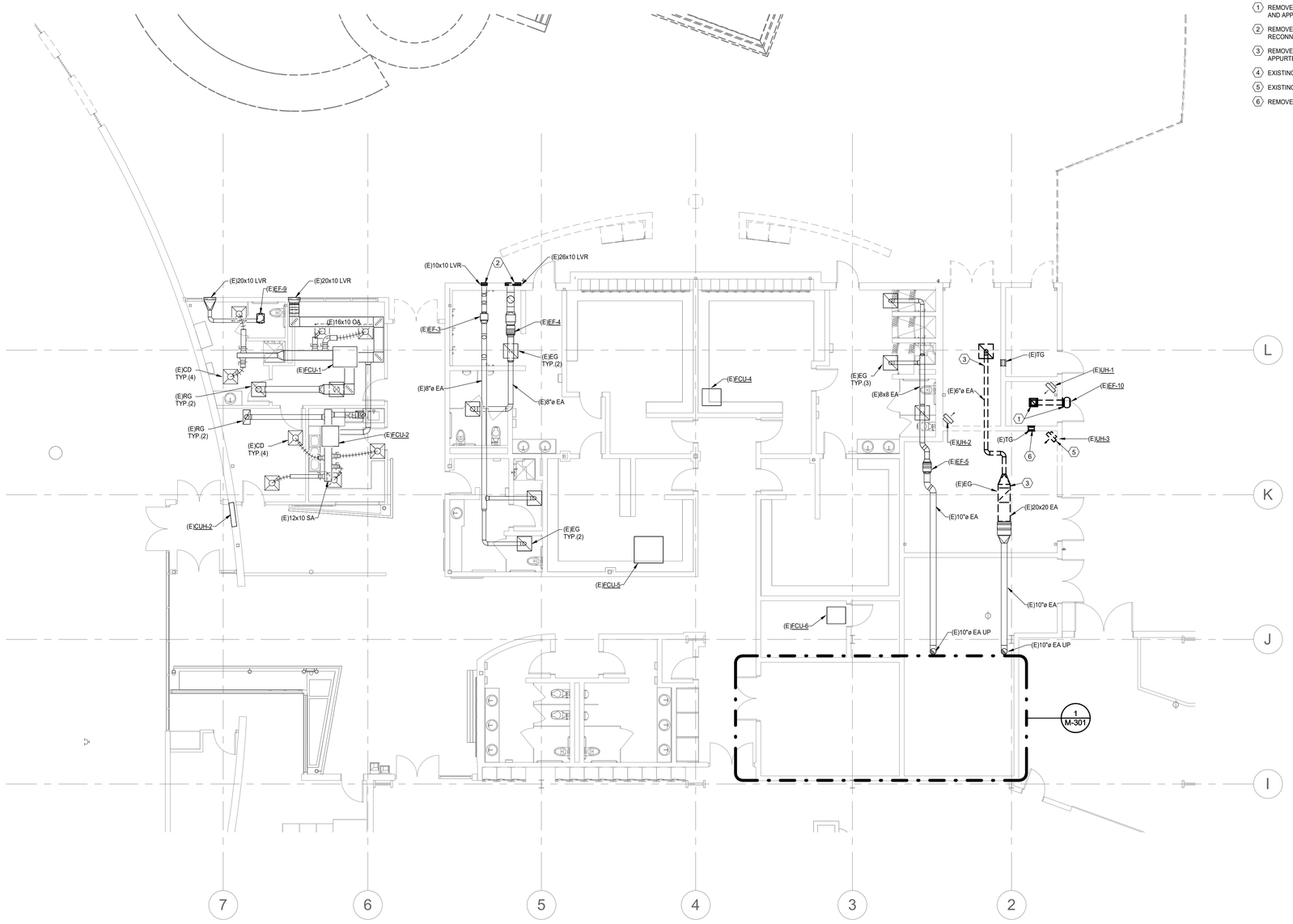
FIRST FLOOR HVAC DEMOLITION KEYNOTES:

1. REMOVE EXHAUST FAN AMD ALL ASSOCIATED DUCTWORK, AIR DEVICES, SUPPORTS, CONTROLS AND APPURTENANCES AS INDICATED.
2. REMOVE EXISTING EXTERIOR LOUVERS. DUCTWORK AND WALL OPENING TO REMAIN FOR RECONNECTION. REFER TO NEW WORK PLANS.
3. REMOVE EXISTING DUCTWORK AND ALL ASSOCIATED HANGERS, AIR DEVICES AND APPURTENANCES TO EXTENT INDICATED.
4. EXISTING DUCTWORK TO REMAIN, TYPICAL.
5. EXISTING UNIT HEATER TO BE RELOCATED. REFER TO NEW WORK PLANS FOR LOCATION.
6. REMOVE EXISTING TRANSFER GRILLES AND SEAL OPENING IN WALL.



HVAC DEMO FLOOR PLAN

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

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SCALE: **1/8" = 1'-0"**
ISSUE DATE: **03/22/2024**
PROJECT #: **23079**
TITLE: **HVAC DEMO FLOOR PLAN**

SHEET #:
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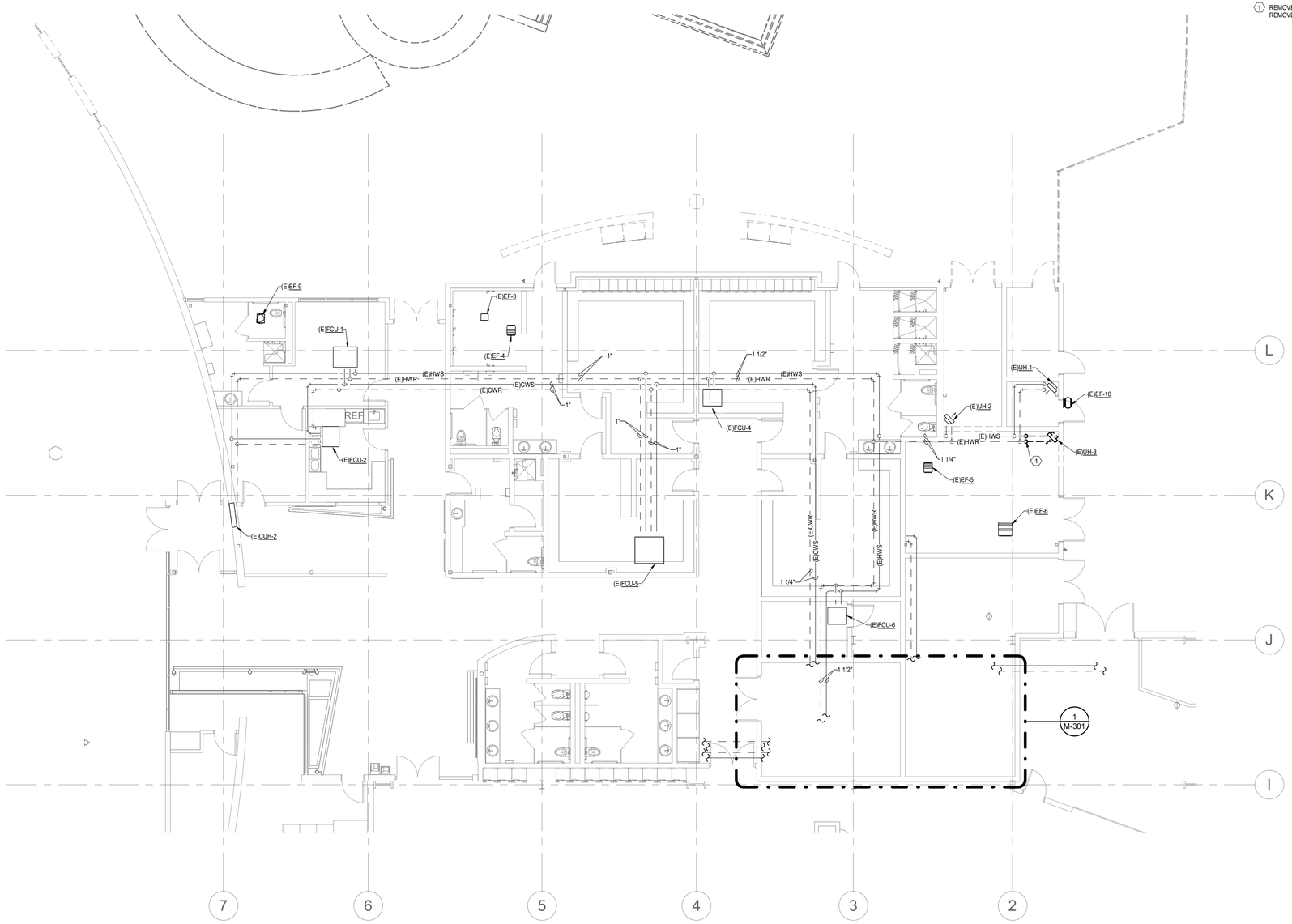
FIRST FLOOR HVAC PIPING DEMOLITION KEYNOTES:

1. REMOVE EXISTING PIPING TO EXTENT INDICATED. CAP REMAINING PIPING AT CONNECTION TO REMOVED PIPING.



HVAC DEMO PIPING FLOOR PLAN

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

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SCALE: **1/8" = 1'-0"**
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PROJECT #: **23079**
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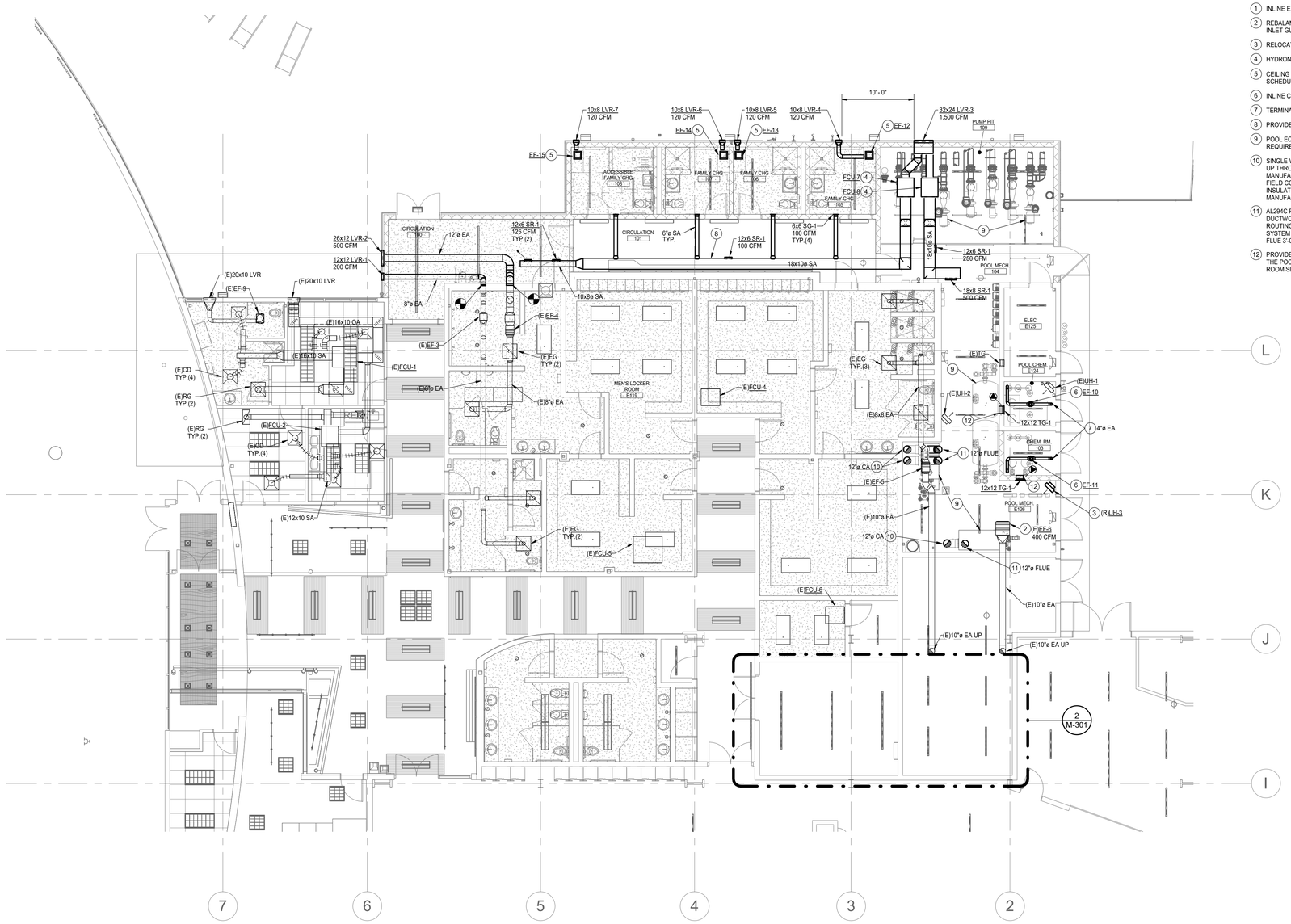

HVAC FLOOR PLAN

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

FIRST FLOOR HVAC KEYNOTES:

1. INLINE EXHAUST FAN. REFER TO DETAIL AND SCHEDULES.
2. REBALANCE THE EXISTING EXHAUST FAN TO THE AIRFLOW VALUE LISTED. PROVIDE FAN WITH AN INLET GUARD.
3. RELOCATE EXISTING UNIT HEATER AS INDICATED.
4. HYDRONIC FAN COIL UNIT. SET UNIT 10'-0" ABOVE BOTTOM OF PUMP PIT. REFER TO SCHEDULES.
5. CEILING FAN SUPPORTED FROM STRUCTURE ABOVE. SET FAN AS HIGH AS POSSIBLE. REFER TO SCHEDULE.
6. INLINE CHEMICAL EXHAUST FAN SUPPORTED FROM STRUCTURE ABOVE. REFER TO SCHEDULE.
7. TERMINATE 4"ø CPVC CHEMICAL ROOM EXHAUST PIPE 12" ABOVE FINISHED ROOF.
8. PROVIDE 18 GAUGE OVAL SPIRAL DUCTWORK WHERE EXPOSED IN THE CORRIDOR.
9. POOL EQUIPMENT SHOWN FOR COORDINATION ONLY, TYPICAL. REFER TO AQUATICS PLANS FOR REQUIREMENTS.
10. SINGLE WALL GALVANIZED COMBUSTION AIR DUCTWORK OF SIZE INDICATED FROM POOL HEATER UP THROUGH ROOF. VERIFY SIZING, MATERIAL, AND ROUTING REQUIREMENTS WITH SUCCESSFUL MANUFACTURER. PRIOR TO PURCHASE, SUBMIT VENT SYSTEM ROUTING SCHEMATIC BASED ON FIELD CONDITIONS FOR ENGINEER'S REVIEW. INSULATE DUCTWORK PER OUTSIDE AIR DUCTWORK INSULATION REQUIREMENTS IN SPECIFICATIONS. TERMINATE DUCTWORK 3'-0" ABOVE ROOF WITH MANUFACTURER'S INLET CAP.
11. AL294C FLUE OF SIZE INDICATED FROM POOL HEATER UP THROUGH ROOF. DO NOT PROVIDE ANY DUCTWORK THAT IS ANGLED LESS THAN 45° FROM HORIZONTAL. VERIFY SIZING, MATERIAL, AND ROUTING REQUIREMENTS WITH SUCCESSFUL MANUFACTURER. PRIOR TO PURCHASE, SUBMIT VENT SYSTEM ROUTING SCHEMATIC BASED ON FIELD CONDITIONS FOR ENGINEER'S REVIEW. TERMINATE FLUE 3'-0" ABOVE ANY FRESH AIR INTAKE WITHIN 10'-0" WITH MANUFACTURE'S VENT CAP.
12. PROVIDE A STAINLESS STEEL TYPE A FIRE DAMPER IN WALL. DAMPER SHALL BE ACCESSED FROM THE POOL EQUIPMENT ROOM SIDE OF THE WALL WITH THE TRANSFER GRILLE ON THE CHEMICAL ROOM SIDE. SET AS HIGH AS POSSIBLE AND COORDINATE WITH BLOCK COURSING.

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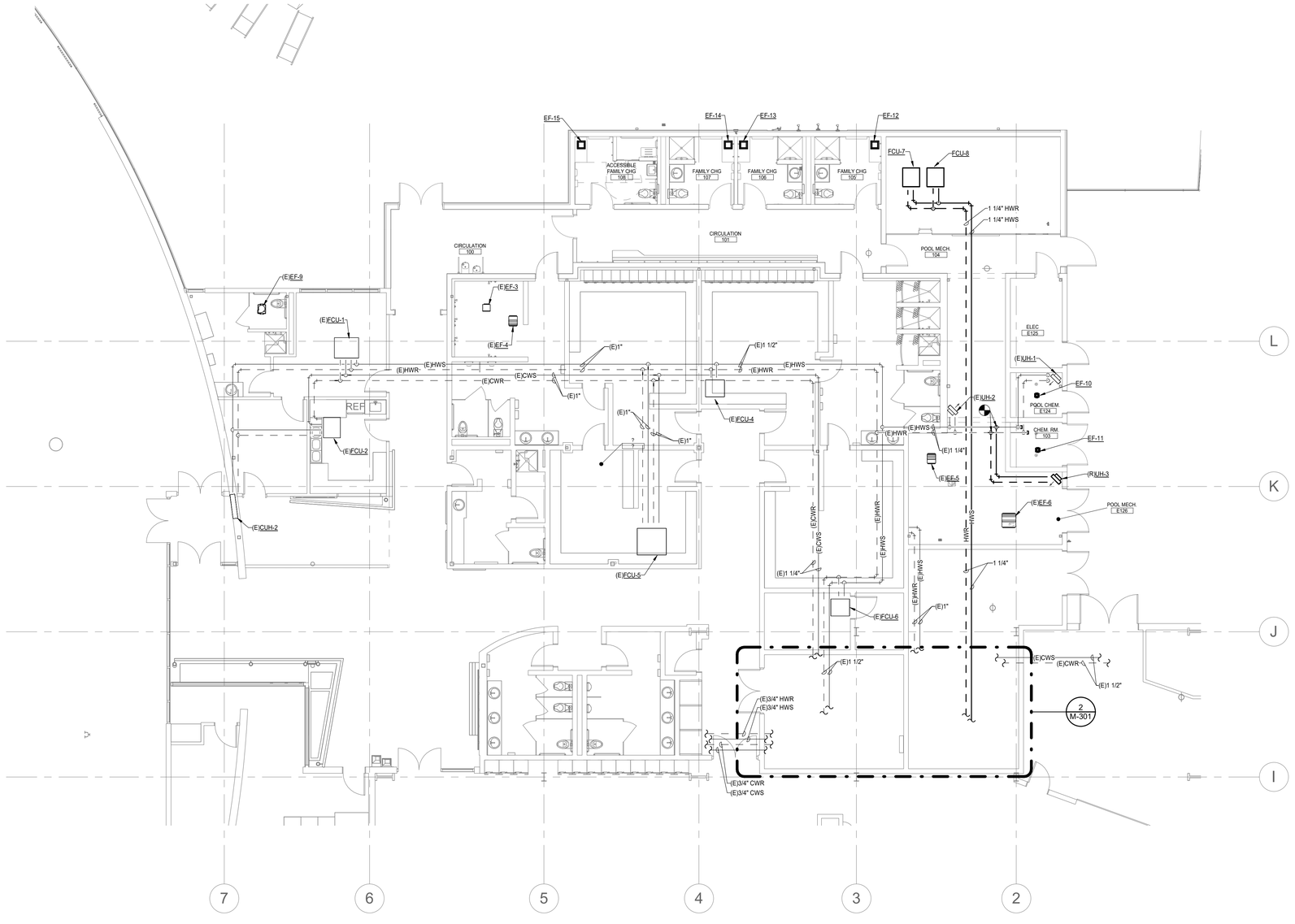

HVAC PIPING FLOOR PLAN

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

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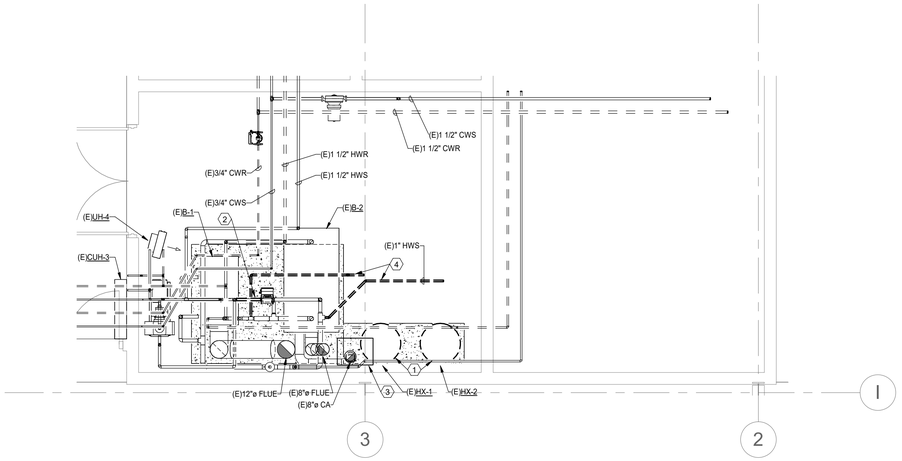
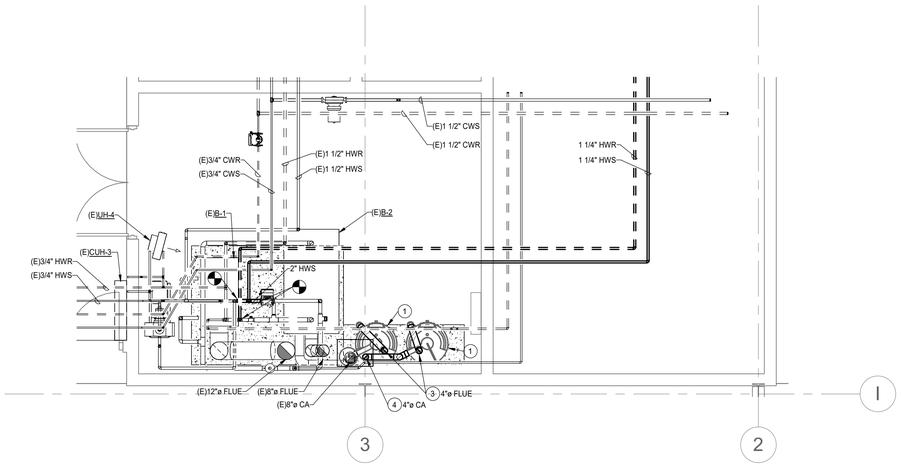


1 M-301 BOILER ROOM HVAC DEMO PLAN

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

ENLARGED SCALE HVAC DEMOLITION KEYNOTES:

1. PLUMBING EQUIPMENT SHOWN FOR COORDINATION ONLY. REFER TO PLUMBING.
2. REMOVE EXISTING PIPING TO THE EXTENT INDICATED.
3. EXISTING 24"x18" COMBUSTION AIR DUCTWORK THROUGH TO MEZZANINE ABOVE TO REMAIN.
4. REMOVE EXISTING PIPING TO THE EXTENT INDICATED. CAP PIPING AT CONNECTION TO THE MAIN PIPING BRANCH.



2 M-301 BOILER ROOM HVAC PLAN

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

ENLARGED SCALE HVAC KEYNOTES:

1. PLUMBING EQUIPMENT SHOWN FOR COORDINATION ONLY. REFER TO PLUMBING.
2. CONNECT NEW HOT WATER PIPING INTO EXISTING PIPING AT MAINS.
3. CPVC WATER HEATER FLUE OF SIZE INDICATED FROM THE WATER HEATER CONNECTION UP THROUGH MECHANICAL MEZZANINE TO ROOF ABOVE. INSTALL PER THE MANUFACTURER'S REQUIREMENTS. SLOPE FLUE PER CODE REQUIREMENTS. CONFIRM SIZE, TYPE AND ROUTING REQUIREMENTS WITH THE SUCCESSFUL MANUFACTURER. TERMINATE PER MANUFACTURER'S REQUIREMENTS A MINIMUM OF 3'-0" ABOVE ROOF.
4. PVC WATER HEATER COMBUSTION AIR PIPING OF SIZE INDICATED FROM THE WATER HEATER CONNECTION UP IN COMBUSTION AIR DUCTWORK THROUGH MEZZANINE. ROUTE COMBUSTION AIR PIPING OUT THROUGH SIDEWALL IN MEZZANINE SIMILAR TO EXISTING BOILER COMBUSTION AIR DUCTWORK. INSULATE COMBUSTION AIR PIPE WITH 1" DUCT WRAP TO PREVENT CONDENSATION. INSTALL PER THE WATER HEATER MANUFACTURER'S REQUIREMENTS. CONFIRM SIZE, TYPE AND ROUTING REQUIREMENTS WITH THE SUCCESSFUL WATER HEATER MANUFACTURER.
5. PVC WATER HEATER COMBUSTION AIR PIPING OF SIZE INDICATED FROM THE WATER HEATER CONNECTION UP IN 24"x16" COMBUSTION AIR DUCTWORK THROUGH MEZZANINE. ROUTE COMBUSTION AIR PIPING OUT THROUGH SIDEWALL IN MEZZANINE SIMILAR TO EXISTING BOILER COMBUSTION AIR DUCTWORK. INSULATE COMBUSTION AIR PIPE WITH 1" DUCT WRAP TO PREVENT CONDENSATION. INSTALL PER THE WATER HEATER MANUFACTURER'S REQUIREMENTS. CONFIRM SIZE, TYPE AND ROUTING REQUIREMENTS WITH THE SUCCESSFUL WATER HEATER MANUFACTURER.

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Mountain Recreation Eagle Pool

1700 Bull Pasture Rd, Eagle, CO 81631

NO.	DATE:	TITLE/PURPOSE:
1	3/22/2024	SITE PLAN 02

SCALE: **1/4" = 1'-0"**
ISSUE DATE: **03/22/2024**
PROJECT #: **23079**
TITLE: **HVAC ENLARGED PLANS**

SHEET #:
M-301

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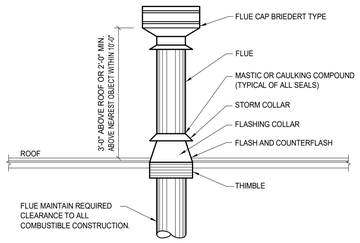
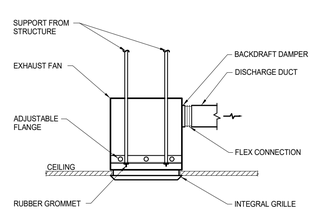


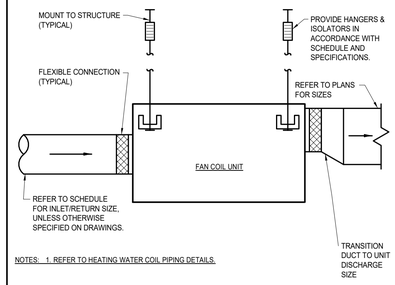
5 M-501 **FLUE THRU ROOF DETAIL**

SCALE: NONE



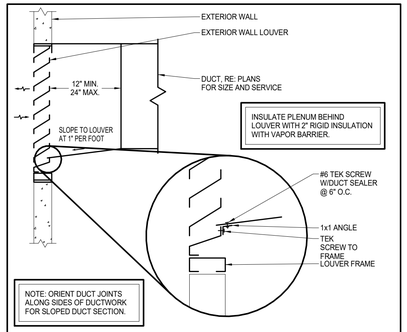
4 M-501 **CEILING EXHAUST FAN DETAIL**

SCALE: NONE



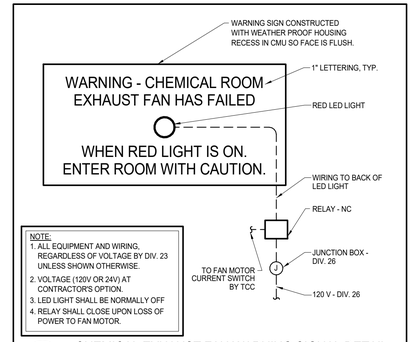
3 M-501 **FAN COIL UNIT INSTALLATION DETAIL**

SCALE: NONE



2 M-501 **EXTERIOR WALL LOUVER DETAIL**

SCALE: NONE



1 M-501 **CHEMICAL EXHAUST FAN WARNING SIGNAL DETAIL**

SCALE: NONE

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1	3/22/2024	SITE PLAN 02

SCALE: **NONE**
ISSUE DATE: **03/22/2024**
PROJECT #: **23079**
TITLE: **HVAC DETAILS**

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FAN COIL UNIT SCHEDULE (HEATING ONLY)

PLAN CODE	MANUFACTURER & MODEL NO.	HEATING COIL								CFM	OA CFM	ESP	FAN ELECTRICAL			DIMENSIONS			OPER. WEIGHT	REMARKS
		MBH TOTAL	GPM	EWT	LWT	WPD	APD	EAT	LAT				HP	VOLTS	Ø	L	W	H		
FCU-7	PRICE BCHD 12	69.2	4.0	160.0	120.0	5.0	0.25	-20.0	90.0	750	750	1.0	0.75	115	1	38"	43"	16"	180	NOTE: 1-5
FCU-8	PRICE BCHD 12	69.2	4.0	160.0	120.0	5.0	0.25	-20.0	90.0	750	750	1.0	0.75	115	1	38"	43"	16"	180	NOTE: 1-5

NOTES:
1. HEATING WATER SYSTEM UTILIZES 35% PROPYLENE GLYCOL.
2. EQUIPMENT IS SELECTED AT A PROJECT ALTITUDE OF 6,800 FEET ABOVE SEA LEVEL.
3. PROVIDE EC MOTOR ON SUPPLY FAN WITH UNIT MOUNTED SPEED CONTROL FOR BALANCING.
4. PROVIDE UNIT WITH FACTORY PACKAGED CONTROLS AND A 7-DAY PROGRAMMABLE THERMOSTAT.
5. 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:
1. EXTRUDED ALUMINUM.
2. PROVIDE LOUVER WITH 1/2" BIRD SCREEN.
3. PROVIDE LOUVER WITH 70% PVDF FINISH. CUSTOM COLOR SHALL BE MATCHED PER ARCHITECTURAL REQUIREMENTS.
4. HEAVY DUTY LOUVER WITH FRAME AND BLADE THICKNESS OF 0.125" MINIMUM.

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	SURFACE	WHITE	

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

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/Φ/HZ	H	W	L					
EF-10	FANTECH FR 110	CHEMICAL	CHEM 21	8.0	130	0.50"	2,143	66W	115/1/60	11"	10"ø		50	NONE	NOTE: 5	NOTE: 2	NOTE: 1,3,4
EF-11	FANTECH FR 110	CHEMICAL	CHEM 103	8.0	130	0.50"	2,143	66W	115/1/60	11"	10"ø		50	NONE	NOTE: 5	NOTE: 2	NOTE: 1,3,4
EF-12	PANASONIC WHISPER FV-1115VK2	CEILING	CHANGING 105	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 106	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 107	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 108	0.3	120	0.25"	895	14W	115/1/60	7"	13"	13"	20	NONE	NOTE: 7	NOTE: 8	NOTE: 1,9

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

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NO.	DATE:	TITLE/PURPOSE:
1	3/22/2024	SITE PLAN 02

SCALE: **NONE**
ISSUE DATE: **03/22/2024**
PROJECT #: **23079**
TITLE: **HVAC SCHEDULES**

SHEET #:
M-601

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PLUMBING LEGEND

ABBV.	SYMBOL	DESCRIPTION
RPBP		REDUCED PRESSURE BACKFLOW PREVENTER
GPM		GALLON PER MINUTE
CW		DOMESTIC COLD WATER
HW		DOMESTIC HOT WATER
HWC		DOMESTIC HOT WATER CIRCULATING
G	G	NATURAL GAS
F	F	FIRE LINE
FS	FS	FIRE SPRINKLER
FDC		FIRE DEPARTMENT CONNECTION
W		SANITARY WASTE BELOW FLOOR
W		SANITARY WASTE ABOVE FLOOR
V		SANITARY VENT
CD	CD	CONDENSATE DRAIN PIPING
FCO		FLOOR CLEANOUT
GCO		GRADE CLEANOUT
WCO	OR	WALL CLEANOUT
		PRESSURE REDUCING VALVE
		HOSE END DRAIN VALVE
		PLUG VALVE
		GAS COCK
TMV		THERMOSTATIC MIXING VALVE
		QUICK OPENING VALVE
		SHOCK ABSORBER (ELEVATION)
		SHOCK ABSORBER (PLAN)
HB/WH	OR	HOSE BIBB/WALL HYDRANT
		AQUASTAT
VTR		VENT THRU ROOF
AD		AREA DRAIN
FD		FLOOR DRAIN
FS		FLOOR SINK
TD		TRENCH DRAIN

PLUMBING LEGEND

ABBV.	SYMBOL	DESCRIPTION
WC		WATER CLOSET
UR		URINAL
L		LAVATORY
S		SINK
MSB		MOP SERVICE BASIN
SH		SHOWER
EWC		ELECTRIC WATER COOLER
DF		DRINKING FOUNTAIN
ES		EMERGENCY SHOWER
EEW		EMERGENCY EYE WASH
TP/TS		TRAP PRIMER/TRAP SEAL
PP		PLUMBING CIRC. PUMP
SP		SUMP PUMP
SE		SEWAGE EJECTOR

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)		NEW
(E)		EXISTING
SF		SQUARE FOOTAGE
		EXISTING (DEMOLITION OR REMOVED)
		CONTROL WIRING
AD/AP		ACCESS DOOR/ACCESS PANEL
		POINT OF CONNECTION - NEW TO EXISTING
		DIRECTION OF FLOW IN PIPE
		PITCH PIPE DOWN IN DIRECTION OF ARROW
		PIPE CAP
		PRESSURE GAUGE WITH COCK
		PIPE UNION
		FLEXIBLE PIPE CONNECTION
		STRAINER WITH BLOWDOWN VALVE
		CONCENTRIC PIPE REDUCER
		ECCENTRIC PIPE REDUCER
CV		CHECK VALVE
BV		BALANCING VALVE
		BALL VALVE
		PRESSURE RELIEF VALVE
P/T		PRESSURE/TEMPERATURE TEST PLUG
		PIPE ELBOW DOWN
		PIPE ELBOW UP
		TEE OFF BOTTOM OF PIPE
		TEE OFF TOP OF PIPE
		THERMOMETER
	X / XXX	X = SECTION/DETAIL NUMBER XXX = SHEET NUMBER WHERE SECTION/DETAIL IS DRAWN

SHEET INDEX

SHEET NUMBER	PLUMBING & FIRE PROTECTION SHEET TITLE	SHEET SCALE	SHEET ISSUED
P-000	PLUMBING COVERSHEET, INDEX, NOTES, & LEGEND	NONE	X
P-100	PLUMBING SITE PLAN	1" = 30' 0"	X
PD-101	FIRST FLOOR PLUMBING DEMOLITION	1/8" = 1' 0"	X
P-101	FIRST FLOOR PLUMBING PLAN & ROOF ADDITION	1/8" = 1' 0"	X
P-201	ENLARGED SCALE PLUMBING PLANS	1/4" = 1' 0"	X
P-301	PLUMBING DETAILS	NONE	X
P-401	PLUMBING SCHEDULE	NONE	X
P-501	PLUMBING ISOMETRICS	NONE	X

PLUMBING DEMOLITION GENERAL NOTES

1. COORDINATE DEMOLITION REQUIREMENTS WITH THE GENERAL CONTRACTOR.
2. COORDINATE EXTENT OF DEMOLITION WITH THE NEW CONSTRUCTION AS SHOWN IN THESE DOCUMENTS.
3. EXISTING PLUMBING PIPING, EQUIPMENT ETC IS SHOWN LIGHT.
4. ALL PLUMBING 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 PLUMBING CONTRACTOR.
5. ALL UNUSED HANGERS AND SUPPORTS SHALL BE REMOVED.
6. THE REMOVAL OR INSTALLATION OF FIXTURES, PIPES AND EQUIPMENT MAY REQUIRE THE REMOVAL OF EXISTING WALLS AND CEILINGS. THE PLUMBING CONTRACTOR AND GENERAL CONTRACTOR SHALL COORDINATE AND BE RESPONSIBLE FOR REPAIRING AND PAINTING THESE WALLS AND/OR CEILINGS SO THEY MATCH THE EXISTING WHERE NOT REPLACED UNDER THE ARCHITECTURAL DOCUMENTS. THE CONTRACTOR SHALL REVIEW THE PLUMBING DRAWINGS TO IDENTIFY THESE LOCATIONS PRIOR TO BID PRICING.
7. THE GENERAL CONTRACTOR SHALL PATCH AND SEAL UNUSED ROOF PENETRATIONS AT DEMOLISHED PLUMBING TO MATCH EXISTING CONDITIONS.
8. THE GENERAL CONTRACTOR SHALL MAKE REPAIRS TO ALL EXISTING BUILDING COMPONENTS THAT HAVE BEEN AFFECTED BY THE DEMOLITION OF PLUMBING SYSTEMS.
9. 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.

PLUMBING GENERAL NOTES

1. FIELD VERIFY EXACT LOCATION OF ALL CONNECTIONS PRIOR TO CONSTRUCTION.
2. ROUGH-IN AND FINAL CONNECT ALL FIXTURES, EQUIPMENT, ETC.
3. CONTRACTOR SHALL INSPECT SITE TO THOROUGHLY FAMILIARIZE HIMSELF WITH THE AREA OF WORK. ANY DISCREPANCES BETWEEN THESE DOCUMENTS AND 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 EXISTING CONDITIONS.
4. ALL WORK SHALL BE PER LOCAL BUILDING AND HEALTH DEPARTMENT REQUIREMENTS.
5. PROVIDE BALL VALVES ON ALL BRANCH LINES FOR BUILDING ISOLATION WHETHER SHOWN OR NOT.
6. REFERENCE HVAC DRAWINGS FOR EXACT LOCATION OF ALL HVAC EQUIPMENT REQUIRING PLUMBING CONNECTIONS. COORDINATE WITH HVAC CONTRACTOR EXACT PLUMBING CONNECTION REQUIREMENTS PRIOR TO COMMENCING WORK.
7. ALL VENTS THROUGH THE ROOF (VTR) SHALL BE POSITIONED A MINIMUM OF 15'-0" FROM ANY OUTSIDE AIR INTAKE.
8. REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL FIRE RATED WALLS. ALL PIPE PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE SEALED IN ACCORDANCE WITH THE BUILDING CODE.
9. OFFSET ALL PIPING AS REQUIRED TO AVOID STRUCTURAL MEMBERS, CANTS, FLASHING, MECHANICAL, OR ELECTRICAL EQUIPMENT.
10. PROVIDE CHROME PLATED SET SCREW TYPE ESCUTCHEONS AT ALL EXPOSED PIPE PENETRATIONS THROUGH WALLS AND CASEWORK.
11. PROTECT ALL EXISTING EQUIPMENT INDICATED AS REMAINING IN PLACE OR BEING RELOCATED. REPLACE DAMAGED EQUIPMENT IMMEDIATELY WITH EXACT DUPLICATE AT NO ADDITIONAL COST TO THE OWNER.
12. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY LOCATING AND PROTECTING ALL EXISTING PIPING AND UTILITIES FOR THE DURATION OF THE WORK. ANY DAMAGE CAUSED TO EXISTING PIPING OR UTILITIES SHALL BE REPAIRED IMMEDIATELY AT NO ADDITIONAL COST TO THE OWNER.
13. COMPLY WITH ALL BUILDING AND HEALTH DEPARTMENT REGULATIONS FOR PLUMBING INSTALLATION. VERIFY ALL REQUIREMENTS PRIOR TO SUBMITTING BID OR COMMENCING WORK.
14. FLUSH MOUNT ALL FLOOR SINKS FOR FLOOR DRAINAGE USE.
15. ALL GAS PIPING, VALVES, PRV, ETC. SHALL MEET THE REQUIREMENTS OF THE INTERNATIONAL FUEL GAS CODE.

FIRE PROTECTION GENERAL NOTES

1. ALL WORK SHALL BE PER LOCAL BUILDING AND FIRE DISTRICT APPROVAL.
2. RELOCATE EXISTING FIRE SPRINKLER HEADS PER NEW WALL & CEILING LAYOUT. NEW FIRE SPRINKLER HEADS SHALL MATCH EXISTING. EXTEND (E)FS ZONE TO NEW ADDITION.
3. ALL PIPING SHALL CONFORM TO NFPA 13.
4. PROVIDE SHOP DRAWINGS FOR ALL WORK THAT ADHERERS TO ALL LOCAL CODES. BUILDING OWNER INSURANCE CARRIER, AND NFPA REQUIREMENTS.
5. PROVIDE HYDRAULIC CALCULATION ALONG WITH SHOP DRAWINGS FOR ARCHITECT/ENGINEER/OWNER/CODE APPROVAL.
6. IT SHALL BE THE FIRE PROTECTION CONTRACTOR'S RESPONSIBILITY TO CALCULATE, DESIGN AND INSTALL THE FIRE PROTECTION SYSTEM(S) CALLED FOR, INCLUDING ALL PIPING, FITTINGS, EQUIPMENT, DRAINS, SPRINKLERS, ETC. AS MAYBE REQUIRED FOR A COMPLETE, APPROVED AND OPERATIONAL FIRE PROTECTION SYSTEM IN ACCORDANCE WITH APPLICABLE NFPA STANDARDS.
7. THE ENTIRE BUILDING, WITH SPECIFIC EXCEPTIONS NOTED, SHALL BE PROVIDED AUTOMATIC SPRINKLER SYSTEM COVERAGE.
8. EXISTING PIPING, EQUIPMENT AND SPRINKLER, WHERE INDICATED, HAVE BEEN SHOWN IN AN APPROXIMATE MANNER. THE FIRE PROTECTION CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING PIPING, EQUIPMENT, SPRINKLER, ETC. PRIOR TO COMMENCING WORK.
9. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT CEILING MOUNTING HEIGHTS AND LOCATION OF CEILING MOUNTED EQUIPMENT.
10. FURNISH SHOP DRAWINGS OF THE SYSTEM ALONG WITH HYDRAULIC CALCULATIONS AND PRODUCT DATA OF ALL PIPING, EQUIPMENT AND SPRINKLERS PROPOSED PRIOR TO INSTALLATION.
11. COORDINATE LOCATIONS OF ALL SPRINKLER WITH CEILING SYSTEMS AND ALL CEILING MOUNTED EQUIPMENT.
12. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF ALL FIRE RATED WALLS, SEAL ALL PIPE PENETRATIONS THROUGH FIRE RATED WALLS IN ACCORDANCE WITH THE BUILDING CODE.
13. CONNECTIONS TO, AND SHUTDOWNS OF EXISTING SYSTEMS SHALL BE COORDINATED WITH OWNER AND LOCAL FIRE DEPARTMENT. SCHEDULE WORK TO MINIMIZE INTERFERENCE WITH OWNERS OPERATIONS AND DOWNTIME OF EXISTING SYSTEM.
14. ALL DRAIN TERMINATIONS SHALL BE EXTENDED TO DISCHARGE TO THE EXTERIOR. LOCATION AS APPROVED BY ARCHITECT/ENGINEER. DRAIN PIPING SHALL BE RUN CONCEALED ABOVE CEILING OR WITHIN APPROVED RECESSES OR CHASES WITHIN BUILDING, DISARGE DRAIN LINES A MAXIMUM OF 1'-6" ABOVE FINISHED GRADE. PROVIDE CONCRETE SPLASH BLOCKS AT DRAIN TERMINATIONS WHERE OUTLETS DISCHARGE INTO LANDSCAPED AREAS.
15. OFFSET PIPING AS MAYBE REQUIRED TO CLEAR EXISTING STRUCTURAL ELEMENTS, MECHANICAL AND ELECTRICAL EQUIPMENT. INCLUDE OFFSETS IN HYDRAULIC CALCULATION DATA.
16. FINAL LOCATIONS OF ALL FIRE SPRINKLER SHALL BE APPROVED BY THE ARCHITECT.
17. SPRINKLER INSTALLED IN FINISHED CEILING SYSTEMS SHALL BE CENTERED WITHIN CEILING TILES OR AT QUARTER POINTS ALONG THE LONGTUDINAL AXIS OF 2'x4' CEILING TILES.

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(970) 568-8762

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

NO.	DATE:	TITLE/PURPOSE:
1	3/22/2024	SITE PLAN 02

SCALE: **NONE**
ISSUE DATE: **3/22/2024**
PROJECT #: **23079**
TITLE: **PLUMBING COVERSHEET, INDEX, NOTES, & LEGEND**

SHEET #:
P-000

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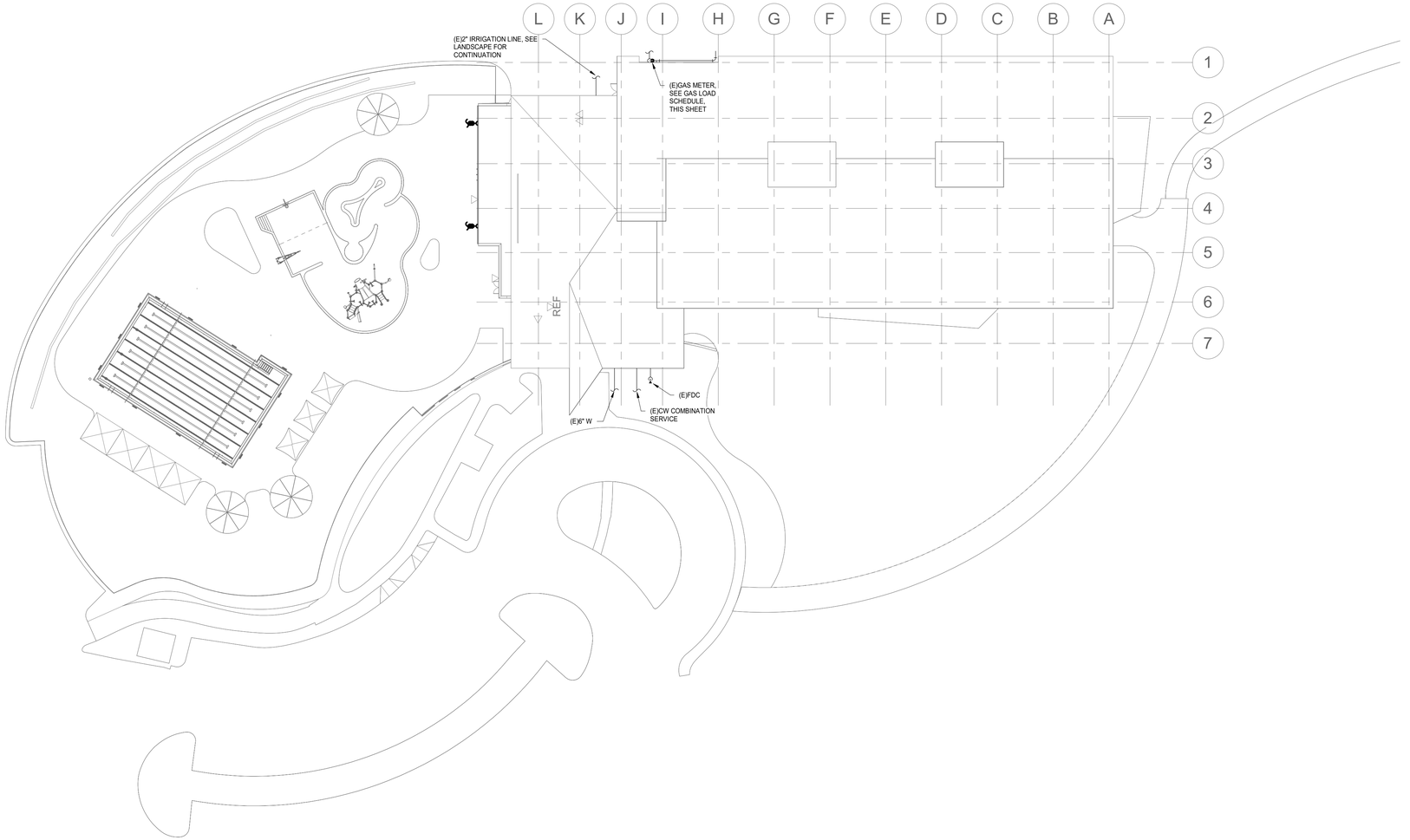
GAS LOAD SCHEDULE:

(E)APPLIANCE:	LOAD:
(E)B - 1 (BOILER)	1,112.0 MBH
(E)B - 2 (BOILER)	520.0 MBH
(E)FURN - 1(MAU)	1,200.0 MBH
(E)POOL BOILER	1,800.0 MBH
TOTAL GAS LOAD:	4,632.0 MBH INPUT REQUIRED AT S.L. UTILIZING A 3 PSI SYSTEM. M.C. TO COORDINATE LOAD WITH LOCAL GAS COMPANY

(N)APPLIANCE:	LOAD:
(N)LP - 1 (LAP POOL HEATER)	1,440.0 MBH
(N)RP - 1 (REC. POOL HEATER)	1,260.0 MBH
(N)RP - 2 (REC. POOL HEATER)	1,260.0 MBH
(N)GWH - 1 (GAS WATER HEATER)	250.0 MBH
(N)GWH - 2 (GAS WATER HEATER)	250.0 MBH
(E)B - 1 (BOILER)	1,112.0 MBH
(E)FURN - 1 (MAU)	1,200.0 MBH
TOTAL GAS LOAD:	6,722.0 MBH INPUT REQUIRED AT S.L. UTILIZING A 3 PSI SYSTEM. M.C. TO COORDINATE LOAD WITH LOCAL GAS COMPANY
ADDED LOAD:	2,140.0 MBH INPUT @ S.L.



PLUMBING SITE PLAN

SCALE: 1" = 30'-0"

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Mountain Recreation Eagle Pool

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NO.	DATE:	TITLE/PURPOSE:
1	3/22/2024	SITE PLAN 02

SCALE: **1" = 30' 0"**
ISSUE DATE: **3/22/2024**
PROJECT #: **23079**
TITLE: **PLUMBING SITE PLAN**

SHEET #:
P-100

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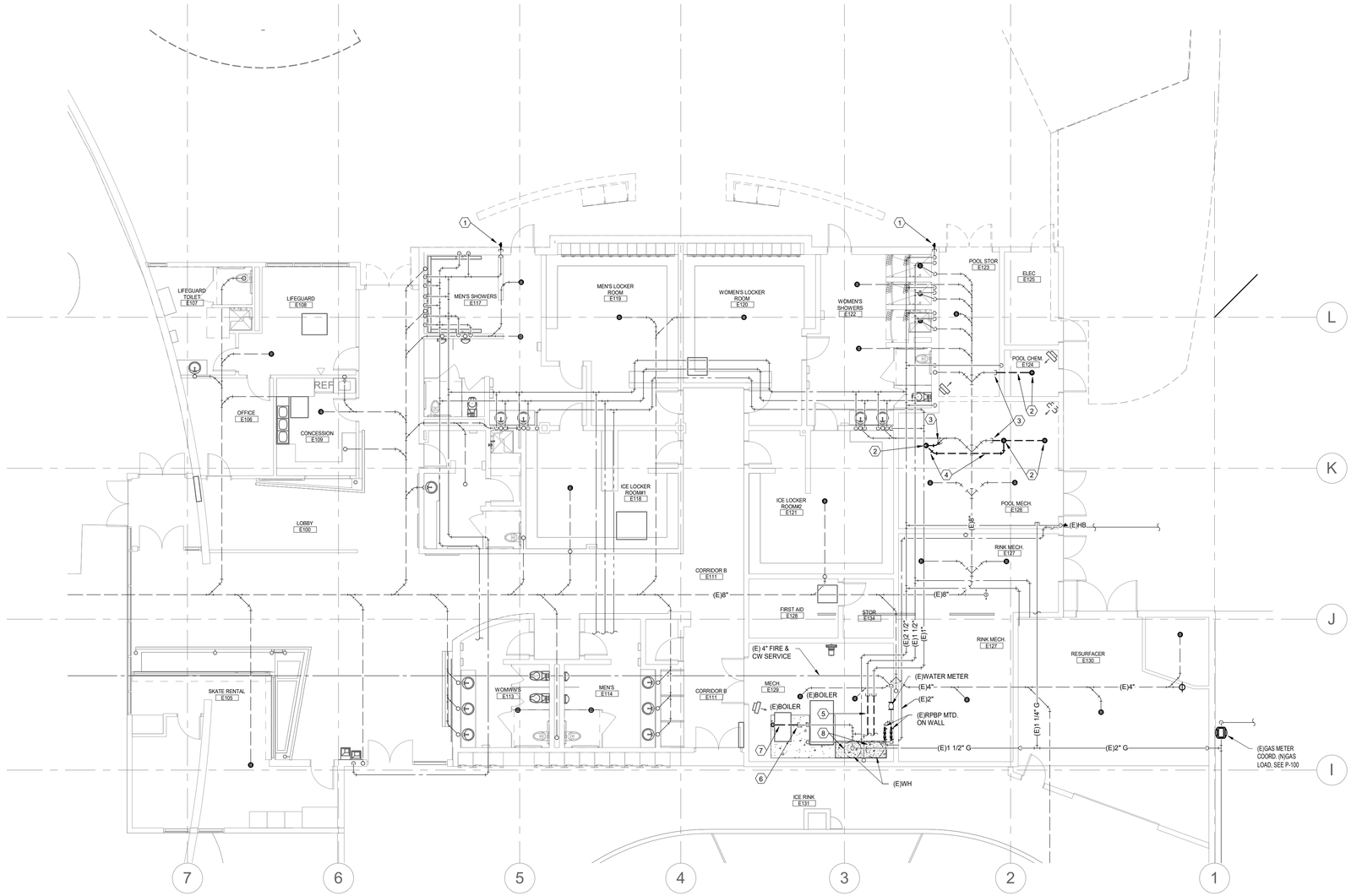
PLUMBING DEMOLITION KEYNOTES:

1. CAP (E)CW BEHIND WALL & REMOVE WALL HYDRANT.
2. REMOVE (E)FD & ASSOCIATED PIPING.
3. CAP (E)WASTE PIPING BELOW FLOOR.
4. REMOVE (E)VENT PIPING & AIR ADMITTANCE VALVE.
5. CAP & REMOVE (E)WATER PIPING TO (E)STORAGE TANKS.
6. CAP (E)GAS PIPING.
7. REMOVE GAS PIPING TO DEMO'D BOILER.
8. REMOVE (E)DOMESTIC HOT WATER HEAT EXCHANGERS & CAP PIPING FOR RECONNECTION, CAP HEATING PIPING AT MAINS.



FIRST FLOOR PLUMBING DEMOLITION

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

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NO.	DATE:	TITLE/PURPOSE:
1	3/22/2024	SITE PLAN 02

SCALE: **1/8" = 1' 0"**
ISSUE DATE: **3/22/2024**
PROJECT #: **23079**
TITLE: **FIRST FLOOR PLUMBING DEMOLITION**

SHEET #:
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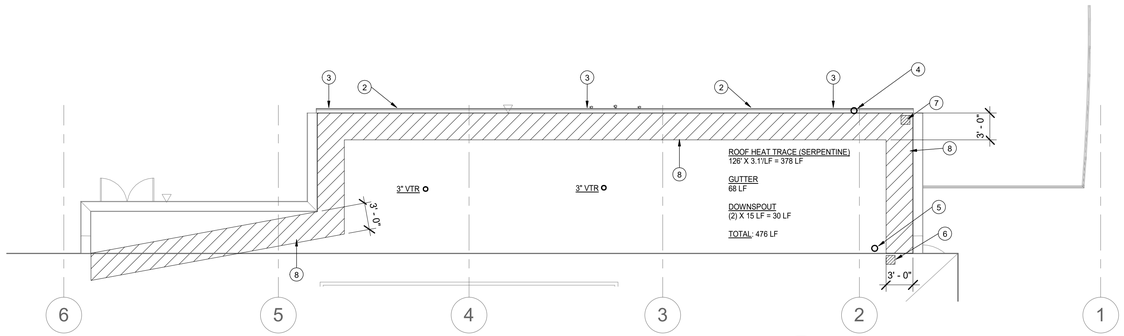
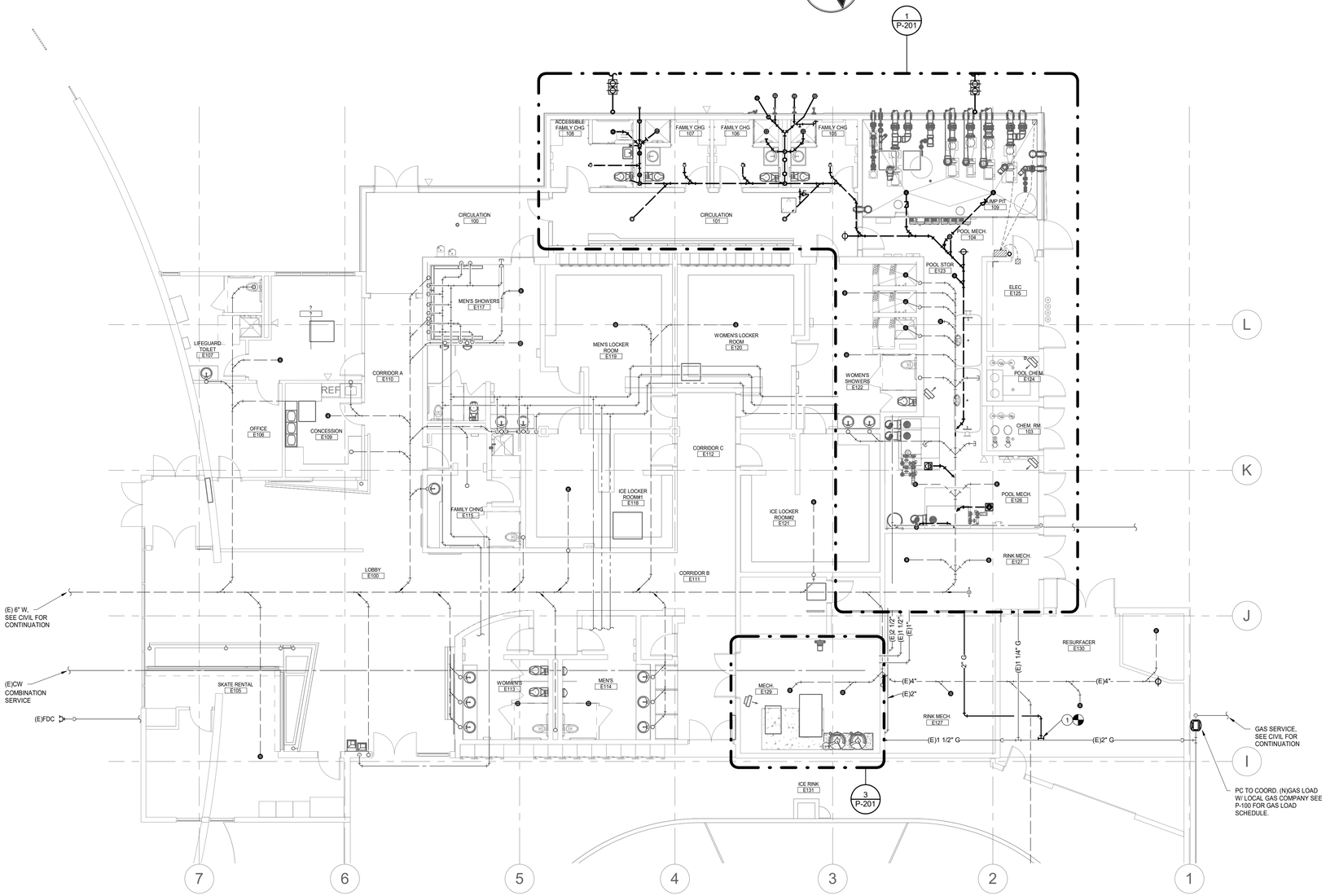


ROOF PLUMBING PLAN - ADDITION

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



FIRST FLOOR PLUMBING PLAN

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

PLUMBING KEYNOTES:

1. CONNECT 2" G. TO (E)GAS @ STRUCTURE.
2. HEAT TRACE DN. INSIDE GUTTER TO 3' BELOW GRADE.
3. HEAT TRACE IN GUTTERS.
4. GUTTER SNOW SENSOR.
5. SNOW OWL SNOW SENSOR.
6. JUNCTION BOX, HEAT TRACE 378 LF x 12 WATTS/LF = 4,356 WATTS 208/60/3.
7. JUNCTION BOX, HEATRACE GUTTERS & DOWNSPOUTS 918 LF x 12 WATTS/LF = 1,176 WATTS, 2087/60/3.
8. HEAT TRACE ON ROOF IN SERPENTINE LAYOUT.

HEAT TRACE COMPONENTS

CONTACT: AUSTIN DURHAM
FRONTIER CONTROLS 303-745-5066 EXT. #1

- ONE (1) APS-42 CONTROLLER, (1) CIRCUIT ROOF, (1) CIRCUIT GUTTER
  - 476 LF x 12WATTS/LF = 5,712 WATT.
  - 208/60/3
- ONE (1) SNOW OWL AERIAL SNOW SENSOR
- ONE (1) GIT-1 GUTTER SNOW SENSOR
- 476' OF GM-2X CABLE REQUIRED.
  - 36" TRACING HEIGHT
- FTC-P POWER CONNECTION KITS + END SEAL
- FTC-HST SPLICE/TEE KITS
- GM-RAKE DOWNSPOUT HANGARS
- GMK ROOF CLIPS BOXES (50 CLIPS PER BOX)

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NO.	DATE:	TITLE/PURPOSE:
1	3/22/2024	SITE PLAN 02

SCALE: **1/8" = 1' 0"**
ISSUE DATE: **3/22/2024**
PROJECT #: **23079**
TITLE: **FIRST FLOOR PLUMBING PLAN & ROOF ADDITION**

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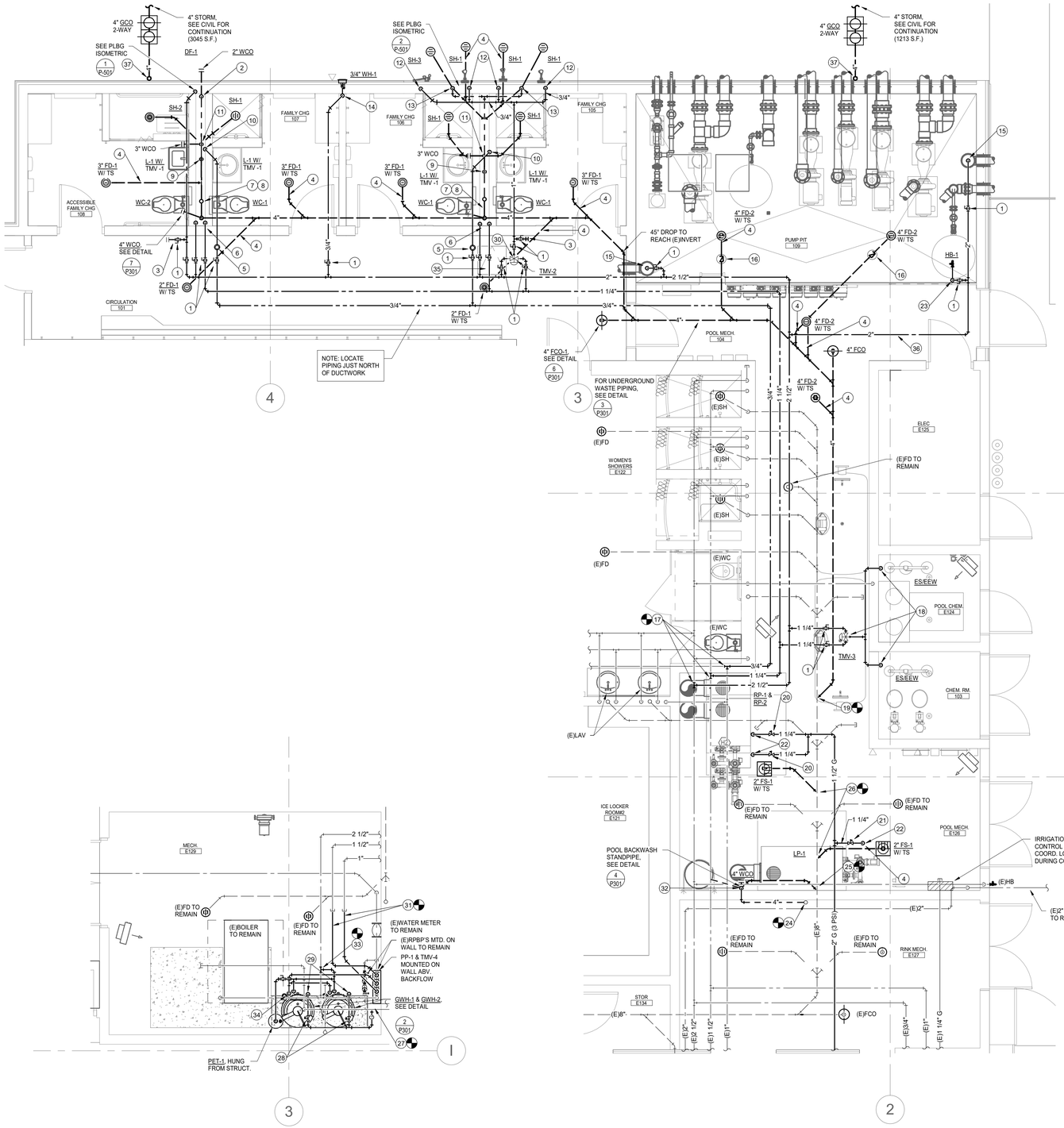

PLUMBING KEYNOTES:

1. BALL VALVES (FULL SIZE) W/ SERVICE ACCESS.
2. 2" W. DN., 1-1/2" V. RISE, 1/2" CW DN. TO DF-1.
3. 1/2" DRAIN VALVE W/ HOSE CONNECTION FOR WINTERIZATION OF DF-1/SH.
4. COMBINATION WASTE & VENT SYSTEM.
5. 3/4" BALANCING VALVE W/ SERVICE ACCESS, BALANCE TO 1.0 GPM.
6. 2" CW & 1" HW DN. IN WALL & OFFSET TO FIXTURES.
7. 4" W. DN., 2" V. RISE, & 1" CW TO WC.
8. 2" V. RISE TO 3" VTR.
9. 2" W. DN., 1-1/2" V. RISE, 1/2" CW & 1/2" HW TO LAV.
10. 3/4" HWC DN. IN WALL & CONNECT TO 3/4" HW WITH-IN 2' OF FAUCET.
11. 3" W. DN., 1-1/2" V. RISE, 1/2" CW & 1/2" HW TO SH.
12. 1/2" HW (90°F) DN. IN WALL TO SHOWER (PIPING ON WARM SIDE OF INSULATION).
13. 2" W. DN., 1-1/2" V. RISE FOR FD.
14. 3/4" CW DN. IN WALL TO 3/4" WH-1.
15. CONNECT 2" CW (POOL MAKE-UP) DN. TO FILL INLET, SEE AQUATIC DETAIL FOR VALVING.
16. BACKWATER VALVE W/ SERVICE ACCESS NDS #475PR.
17. CONNECT 2-1/2" CW, 1-1/4" HW, & 1" HWC TO (E)WATER @ STRUCTURE.
18. CONNECT 1-1/4" CW & 1-1/4" HW TO TMV-3, 1-1/4" (TEPID) HW TO ES/EEW.
19. CONNECT (N)4" W. TO (E)WASTE BELOW FLOOR, FIELD VERIFY INVER PRIOR TO ANY WORK.
20. 2" GAS PRV., 1260 MBH INPUT @ S.L., 3.0 PSI TO 11" WC.
21. 2" GAS PRV. 1440 MBH INPUT @S.L., 3.0 PSI TO 11" WC.
22. CONNECT 2" G. TO POOL BOILERS W/ GAS COCK & 6" DIRT LEG.
23. 3/4" CW TO HB-1.
24. CONNECT 4" V. RISE TO (E)VENT ON WALL.
25. CONNECT 8" W. TO (E)8" WASTE BELOW FLOOR.
26. CONNECT 2" W. (E)WASTE BELOW FLOOR.
27. CONNECT 1" G. TO (E)GAS @ STRUCTURE.
28. 1" GAS PRV., 250 MBH INPUT @ S.L., 3.0 PSI TO 11" WC, SEE DETAIL 1/P301. (TYP.)
29. CONNECT 1" G. TO GWH W/ GAS COCK & 6" DIRT LEG.
30. 1" CW & 1" HW TO TMV-2, 1" HW TO EXTERIOR SHOWERS.
31. CONNECT 1-1/2" HW & 1" HWC TO (E) WATER @ STRUCTURE.
32. 8 " W DN., 4" V. RISE FOR BACKWASH STANDPIPE, SEE DETAIL 2/P301.
33. CONNECT 1-1/2" CW TO (E)CW @ STRUCTURE.
34. EXTEND 3" HOUSEKEEPING PAD FOR (N)GWH'S.
35. 24" X 24" ACCESS PANEL.
36. OFFSET PIPING OVER HOIST BEAM IN THIS AREA.
37. CONNECT 4" STORM TO DOWNSPOUT W/ PIPE TO DOWNSPOUT ADAPTOR.

3 P-201 **ENLARGED SCALE PLUMBING PLAN**
SCALE: 1/4" = 1'-0"

1 P-201 **ENLARGED SCALE PLUMBING PLAN**
SCALE: 1/4" = 1'-0"

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NO.	DATE:	TITLE/PURPOSE:
1	3/22/2024	SITE PLAN 02

SCALE: **1/4" = 1' 0"**
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PROJECT #: **23079**
TITLE: **ENLARGED SCALE PLUMBING PLANS**

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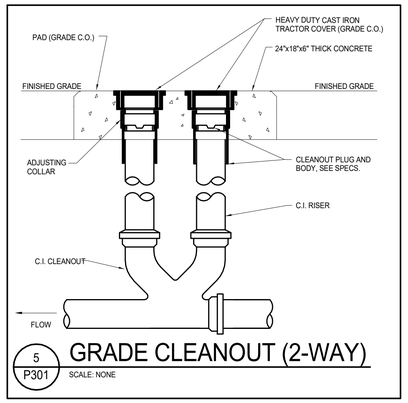
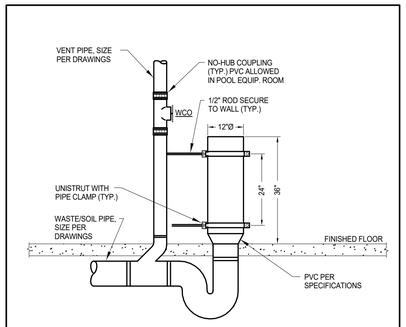


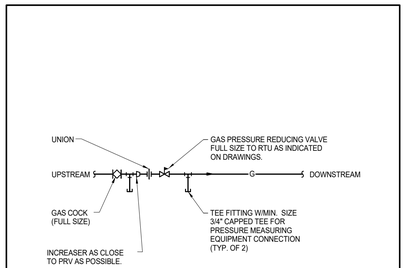
5 P301 **GRADE CLEANOUT (2-WAY)**

SCALE: NONE



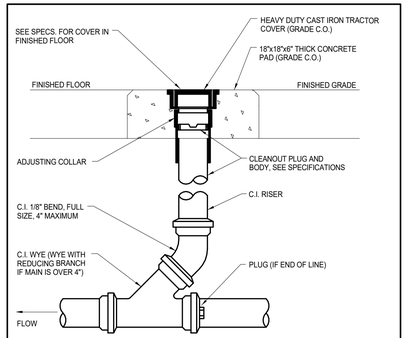
4 P301 **POOL BACKWASH STANDPIPE DETAIL**

SCALE: NONE



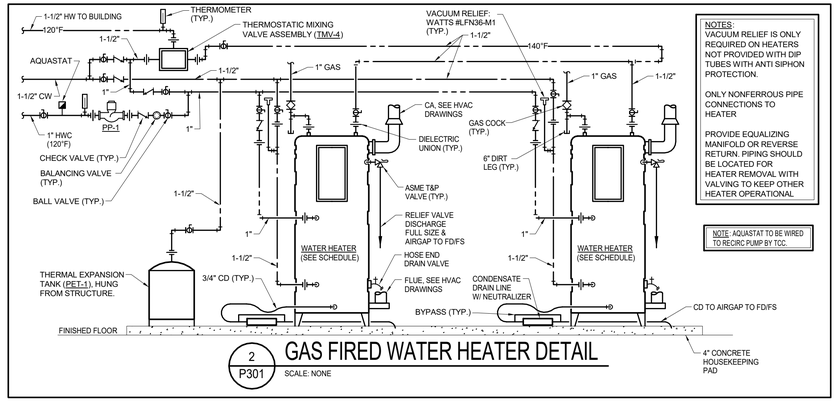
1 P301 **GAS PRESSURE REGULATING VALVE PIPING DETAIL**

SCALE: NONE



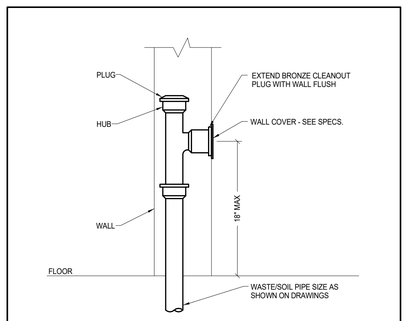
6 P301 **FLOOR CLEANOUT DETAIL**

SCALE: NONE



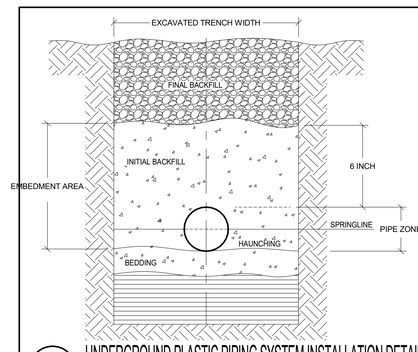
2 P301 **GAS FIRED WATER HEATER DETAIL**

SCALE: NONE



7 P301 **WALL CLEANOUT DETAIL**

SCALE: NONE



3 P301 **UNDERGROUND PLASTIC PIPING SYSTEM INSTALLATION DETAIL**

SCALE: NONE

UNDERGROUND INSTALLATION OF PLASTIC PIPING:

PLASTIC PIPE SHOULD ALWAYS BE BURIED IN STRICT ACCORDANCE WITH THE ASTM STANDARD RELEVANT TO THE TYPE OF PLASTIC PIPING SYSTEM BEING INSTALLED. THOSE STANDARDS ARE:

ASTM D2321 STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS

ASTM D2774 STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PRESSURE PIPING.

NOTE: IN ADDITION TO THESE STANDARDS, PIPE SHOULD ALWAYS BE INSTALLED IN ACCORDANCE WITH ALL LOCAL CODE REQUIREMENTS.

RECOMMENDATIONS FOR UNDERGROUND INSTALLATION OF PLASTIC DRAINAGE PIPE:

1. THE MINIMUM WIDTH OF THE TRENCH SHOULD BE THE PIPE OD (OUTSIDE DIAMETER) PLUS 16 INCHES OR THE PIPE OUTSIDE DIAMETER TIMES 1.25 PLUS 12 INCHES. THIS WILL ALLOW ADEQUATE ROOM FOR JOINING THE PIPE, SNAKING THE PIPE IN THE TRENCH TO ALLOW FOR EXPANSION AND CONTRACTION WHERE APPROPRIATE AND SPACE FOR BACKFILLING AND COMPACTION OF BACKFILL. THE SPACE BETWEEN THE PIPE AND TRENCH WALL MUST BE WIDER THAN COMPACTION EQUIPMENT USED TO COMPACT THE BACKFILL.
2. PROVIDE A MINIMUM OF 4 INCHES OF FIRM, STABLE AND UNIFORM BEDDING MATERIAL IN THE TRENCH BOTTOM. IF ROCK OR UNYIELDING MATERIAL IS ENCOUNTERED. A MINIMUM OF 6 INCHES OF BEDDING SHALL BE USED. BLOCKING SHOULD NOT BE USED TO CHANGE GRADE OR TO INTERMITTENTLY SUPPORT PIPE OVER LOW SECTIONS IN THE TRENCH.
3. THE PIPE SHOULD BE SURROUNDED WITH AN AGGREGATE MATERIAL WHICH CAN BE EASILY WORKED AROUND THE SIDES OF THE PIPE. BACKFILLING SHOULD BE PERFORMED IN LAYERS OF 6 INCHES WITH EACH LAYER BEING SUFFICIENTLY COMPACTED TO 95% COMPACTION.
4. A MECHANICAL TAMPER IS RECOMMENDED FOR COMPACTING SAND AND GRAVEL. THESE MATERIALS CONTAIN FINE-GRAINS, SUCH AS SILT AND CLAY. IF A TAMPER IS NOT AVAILABLE. COMPACTING SHOULD BE DONE BY HAND.
5. THE TRENCH SHOULD BE COMPLETELY FILLED. THE BACKFILL SHOULD BE PLACED AND SPREAD IN UNIFORM LAYERS TO PREVENT ANY UNFILLED SPACES OR VOIDS. LARGE ROCKS, STONES, FROZEN CLODS OR OTHER LARGE DEBRIS SHOULD BE REMOVED. STONE BACKFILL SHALL PASS THROUGH AN 1-1/2" SIEVE. ROCK SIZE SHOULD BE ABOUT ONE-TENTH OF THE PIPE OUTSIDE DIAMETER. HEAVY TAMPERS OR ROLLING EQUIPMENT SHOULD ONLY BE USED TO CONSOLIDATE THE FINAL BACKFILL.
6. TO PREVENT DAMAGE TO THE PIPE AND DISTURBANCE TO PIPE EMBEDMENT. A MINIMUM DEPTH OF BACKFILL ABOVE THE PIPE SHOULD BE MAINTAINED. PIPE SHOULD ALWAYS BE INSTALLED BELOW THE FROST LEVEL. TYPICALLY. IT IS NOT ADVISABLE TO ALLOW VEHICULAR TRAFFIC OR HEAVY CONSTRUCTION EQUIPMENT TO TRAVERSE THE PIPE TRENCH.

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Mountain Recreation Eagle Pool

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NO.	DATE:	TITLE/PURPOSE:
1	3/22/2024	SITE PLAN 02

SCALE: **NONE**
ISSUE DATE: **3/22/2024**
PROJECT #: **23079**
TITLE: **PLUMBING DETAILS**

SHEET #:
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WATER HEATER SCHEDULE (GAS-FIRED)

PLAN CODE	MANUFACTURER & MODEL NO.	STORAGE GALLONS	G.P.H. RECOVERY @ 100' RISE	BTUH INPUT @ SEA LEVEL	EFF. FACTOR	FLUE SIZE	TANK SIZE		OPER. WEIGHT	REMARKS
							DIA.	HT.		
GWH-1	AO SMITH - BTH-250(A)	100	291	250,000	0.97	SEE HVAC	27-3/4"	76-1/2"	1,387 LBS.	NOTE:1,2,3
GWH-2	AO SMITH - BTH-250(A)	100	291	250,000	0.97	SEE HVAC	27-3/4"	76-1/2"	1,387 LBS.	NOTE: 1,2,3

NOTES:
1. SET TO 140° F.
2. PROVIDE WITH PET.
3. CONTROL VOLTAGE, 120/60/1

PLUMBING PUMP SCHEDULE

PLAN CODE	MANUFACTURER & MODEL NO.	TYPE	SERVICE	IMP. DIA. (IN)	GPM	HEAD	% EFF.	ELECTRICAL				VIBRATION ISOLATION	CONTROL	WEIGHT (LBS)	REMARKS
								HP	VOLTS	PH	RPM				
PP-1	GRUNDFOS UPS 26-99 SFC	IN-LINE	HWC (120°F)		7.0	20'		1/6	115	1		INTEGRAL	NOTE: 1		NOTE: 1

NOTES:
1. 24/7 TIME CLOCK, SET OCCUPIED/UNOCCUPIED W/AQUASTAT

PLUMBING FIXTURE SCHEDULE

PLAN CODE	DESCRIPTION	MANUF.	MODEL	COLOR FINISH	FITTINGS	MANUF.	MODEL	COLOR FINISH	REMARKS
WC-1	WATER CLOSET (1.28 GPF) WALL HUNG	KOHLER	K-84325	WHITE	SEAT FLUSH VALVE	OLSONITE SLOAN	95SSCT 111 REGAL XL-1.28	WHITE CHROME	NOTE: 2, 5
WC-2	WATER CLOSET (ACCESSIBLE) (1.28 GPF) WALL HUNG	KOHLER	K-84325	WHITE	SEAT FLUSH VALVE	OLSONITE SLOAN	95SSCT 111 REGAL XL-1.28	WHITE CHROME	NOTE: 3,4,5
L-1	LAVATORY-WALL HUNG (ACCESSIBLE) (.5GPM)	KOHLER	K-2005	WHITE	FAUCET	DELTA	501-LF-HDF-HGM-.5GPM	CHROME	NOTE: 1,6,7,8
SH-1	SHOWER	BY GC			VALVE HEAD	BRADLEY MOEN	1C-HD-ST-AP-BP 52716EP15	CHROME CHROME	NOTE: 9,10,15
SH-2	SHOWER (ACCESSIBLE)	BY GC			VALVE HEAD	BRADLEY MOEN	HN-300-HD-ST-A24-AP-BP 52716EP15	CHROME CHROME	NOTE: 10,12,15
SH-3	SHOWER (ACCESSIBLE)	BY GC			VALVE HEAD	BRADLEY MOEN	HN-300-HD-ST-AP-BP (2)52716EP15	CHROME CHROME	NOTE: 10,11,13,15
MSB-1	MOP SERVICE BASIN	FIAT	MSB2424	WHITE	FAUCET	ZURN	Z843M1RC-CS	CHROME	NOTE: 14
DF-1	DRINKING FOUNTAIN	ELKAY	EDFPVR217C	STAINLESS STEEL	-	-	-	-	NOTE: 11
FD-1 & FD-2	FLOOR DRAIN	SEE SPEC.							
GCO, WCO FCO	CLEANOUTS	SEE SPEC.							
HB-1 & 2	HOSE BIB	SEE SPEC.							
WH-1	WALL HYDRANT	SEE SPEC.							

NOTES:
1. 17 GA. P-TRAP, ANGLE SUPPLIES WITH 1/4 TURN L.K. STOPS.
2. MOUNT AT 15" AFF.
3. MOUNT AT 17" AFF.
4. MOUNT WC HANDLE ON ACCESS SIDE.
5. PROVIDE CARRIER. COORD. WALL THICKNESS PRIOR TO ORDERING CARRIER.
6. GRID DRAIN, 0.5 GPM.
7. INSULATION KIT FOR SUPPLIES AND DRAIN.
8. CONCEALED ARM CARRIER
9. COORD. HEAD HEIGHT W/ ARCH.
10. INSTALL MOEN HEAD ON AP/BP FITTING.
11. COORD. WINTERIZATION.
12. (2) HEADS, (1) FIXED COORD. HEIGHT W/ ARCH (1) HANDHELD HEAD MOUNTED ON 24" ADA BAR, 60" SS HOSE & DIVERTER.
13. (2) HEADS, (1) FIXED COORD. HEIGHT W/ ARCH., (1) FIXED AT 48 " ADA HEIGHT W/ HEAD WALL HOOK & DIVERETER.
14. PROVIDE VACUUM BREAKER & CHECKSTOPS
15. PROVIDE W/ 2" FD-1.

PLUMBING FIXTURE CONNECTION SCHEDULE

PLAN CODE	FIXTURE	PIPE SIZE (INCHES, MINIMUM)							REMARKS
		WASTE		VENT	COLD WATER		HOT WATER		
		TRAP & ARM	VERT. DRAIN	(MIN.)	SUPPLY (MIN.)	CONNECTION (ACTUAL)	SUPPLY (MIN.)	CONNECTION (ACTUAL)	
WC	WATER CLOSET	INT.	4"	2"	1"	1"	-	-	
L	LAVATORY	1-1/2"	2"	1-1/2"	1/2"	3/8"	1/2"	3/8"	
SH	SHOWER	2"	2"	1-1/2"	1/2"	1/2"	1/2"	1/2"	
DF	DRINKING FOUNT.	1-1/2"	2"	1-1/2"	1/2"	3/8"	-	-	
WH/HB	HOSE BIB/WALL HYDRANT	-	-	-	3/4"	3/4"	-	-	
ES/EEW	EMERGENCY SHOWER/ EYEWASH	-	-	-	1-1/4"	-	1-1/4"	-	TEPID WATER
MSB	MOP SERVICE BASIN	3"	3"	1-1/2"	1/2"	1/2"	1/2"	1/2"	

MISCELLANEOUS PLUMBING FIXTURE SCHEDULE

PLAN CODE	DESCRIPTION	MANUFACTURER	MODEL	FINISH	REMARKS
TMV-1	THERMOSTATIC MIXING VALVE	POWERS	LFLM495	ROUGH BRASS	NOTE:1
TMV-2	THERMOSTATIC MIXING VALVE	POWERS	LFLM492	ROUGH BRASS	NOTE:2
TMV-3	THERMOSTATIC MIXING VALVE (EMERG.)	POWERS	ETV400	ROUGH BRASS	NOTE:4
TMV-4	THERMOSTATIC MIXING VALVE	POWERS	LFSH1432	ROUGH BRASS	NOTE:5
PET-1	PLUMBING EXPANSION TANK	AMTROL	ST-25V	-	NOTE:3

NOTES:
1. SET TO 110° F., ASSE 1070
2. SET TO 90° F., ASSE 1017
3. HUNG FROM STRUCTURE.
4. SET TO 85°F, ASSE 1071
5. SET TO 120°F DISCHARGE, ASSE 1017

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NO.	DATE:	TITLE/PURPOSE:
1	3/22/2024	SITE PLAN 02

SCALE: **NONE**
ISSUE DATE: **3/22/2024**
PROJECT #: **23079**
TITLE: **PLUMBING SCHEDULE**

SHEET #:
P-401

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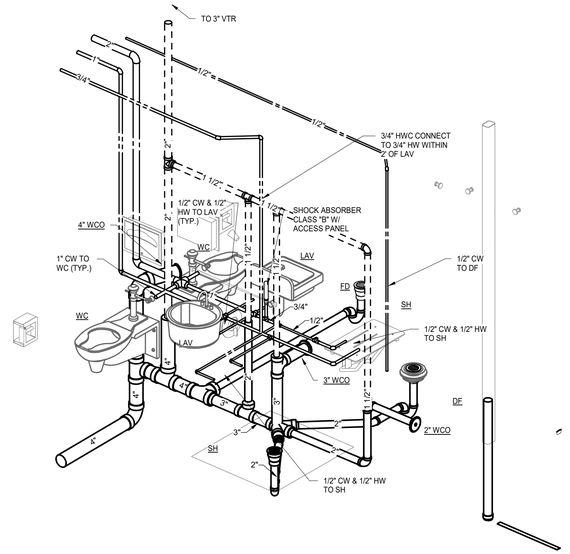
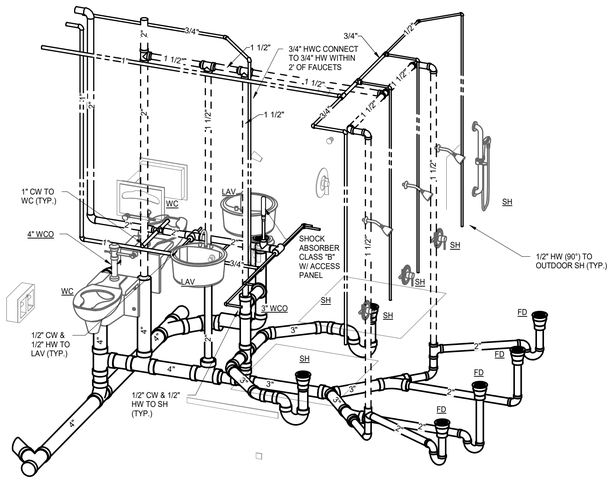


1 P-501 PLUMBING ISOMETRIC

SCALE: NONE



2 P-501 PLUMBING ISOMETRIC

SCALE: NONE

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P-501

ABBREVIATIONS AND NOTATIONS

AC	ABOVE COUNTER - VERIFY HEIGHT
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPS INTERRUPTING CAPACITY
AL	ALUMINUM
AWG	AMERICAN WIRE GAGE
BFG	BELOW FINISHED GRADE
CB	CIRCUIT BREAKER
CCT	CIRCUIT
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
CU	COPPER
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EM	EMERGENCY
EWC	ELECTRIC WATER COOLER
EPC	EMERGENCY POWER CONTROL UNIT
FC	FURNITURE CONNECTION
FLA	FULL LOAD AMPS
G	GROUND
GEC	GROUNDING ELECTRODE CONDUCTOR
GFI	GROUND FAULT INTERRUPTER
HP	HORSEPOWER
IDF	INTERMEDIATE DISTRIBUTION FACILITY
IG	ISOLATED GROUND
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MDF	MAIN DISTRIBUTION FACILITY
MLO	MAIN LUGS ONLY
MTTB	MAIN TELECOM. TERMINAL BACKBOARD
N	NEUTRAL
NC	NORMALLY CLOSED
NL	NIGHT LIGHT (UNSWITCHED)
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OCP	OVERCURRENT PROTECTION
OL	OVERLOAD
SC	SHORT CIRCUIT
SDP	SURGE PROTECTIVE DEVICE
TR	TAMPER RESISTANT
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
TMGB	TELECOM. MAIN GROUNDING BUSBAR
TTB	TELECOMMUNICATIONS TERMINAL BACKBOARD
UC	UNDER COUNTER
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
VFD	VARIABLE FREQUENCY DRIVE
WP	WEATHERPROOF
WPIU	WEATHERPROOF IN-USE
XFMR	TRANSFORMER
(E)	EXISTING TO REMAIN
(ER)	EXISTING TO BE REMOVED
(N)	NEW
(R)	EXISTING TO BE RELOCATED
(RL)	RELOCATED LOCATION

KITCHEN EQUIPMENT SCHEDULE NOTATION

ELECTRICAL EQUIPMENT SCHEDULE NOTATION

MECHANICAL EQUIPMENT SCHEDULE NOTATION

POOL EQUIPMENT SCHEDULE NOTATION

DETAIL NOTE

DELTA REVISION NOTE

SCHEMATIC WIRING SYMBOLS

GROUND

CURRENT TRANSFORMER

CIRCUIT BREAKER, MOLDED-CASE, THERMAL-MAGNETIC

FUSED DISCONNECT SWITCH

ENCLOSED CIRCUIT BREAKER, MOLDED-CASE, THERMAL-MAGNETIC

ENCLOSED NON-FUSED DISCONNECT SWITCH

ENCLOSED FUSED DISCONNECT SWITCH

AUTOMATIC TRANSFER SWITCH

TRANSFORMER

MOTOR

GENERATOR

METER

NORMALLY CLOSED CONTACT

NORMALLY OPEN CONTACT

ELECTRICAL FEEDER SIZE

POWER

DUPLEX RECEPTACLE

DUPLEX AND TWO PORT USB CHARGING OUTLET

GFCI DUPLEX MOUNTED UNDER SINK FOR FAUCET POWER

FOURPLEX (DOUBLE DUPLEX) RECEPTACLE

(2) DUPLEX RECEPTACLES AND (2) TWO PORT USB

CONTROLLED DUPLEX

COMBO RECEPTACLE/SWITCH

SWITCHED DUPLEX RECEPTACLE

SPLIT-WIRED RECEPTACLE

CEILING RECEPTACLE (DUPLEX, FOURPLEX)

SPECIAL PURPOSE RECEPTACLE

FLOOR-MOUNTED SPECIAL PURPOSE RECEPTACLE

FLOOR RECEPTACLE (DUPLEX, FOURPLEX)

FLOOR-MOUNTED COMBINATION OUTLET BOX

WIREMOLD SURFACE RACEWAY

PLUGMOLD SURFACE RACEWAY

CLOCK RECEPTACLE

JUNCTION BOX

WALL-MOUNTED J-BOX

FLOOR-MOUNTED JUNCTION BOX

ENCLOSED CIRCUIT BREAKER

NON-FUSED DISCONNECT SWITCH

FUSED DISCONNECT SWITCH

MAGNETIC CONTROLLER (STARTER)

COMBINATION STARTER/DISCONNECT SWITCH

MOTOR CONNECTION

POWER POLE

SYSTEMS

MTTB, TTB, MDF OR IDF

TELECOMMUNICATION OUTLET

TELECOMMUNICATION OUTLET - EXISTING

TELEPHONE OUTLET

WALL-MOUNTED TELEPHONE OUTLET

DATA OUTLET

FLOOR MOUNTED OUTLET (DATA, TELECOMMUNICATIONS, TELEPHONE)

TELEVISION OUTLET

SPEAKER - PAGING AND OR SOUND SYSTEM

MICROPHONE OUTLET

VOLUME CONTROL

DOOR BELL OR BUZZER

DOME LIGHT

INTERCOM STATION

INTRUSION DETECTION

PANIC BUTTON

SECURITY CAMERA, "W"=WHITE, "B"=BLACK

EXISTING SECURITY DEVICE

LADDER CABLE TRAY

KEY CARD READER

AUDIO CONTROL PANEL, TWO GANG BOX

BLUETOOTH INPUT, TWO GANG BOX

AV PLATE FOR USER INPUTS

SWITCHING AND CONTROLS

SINGLE POLE SWITCH

3-WAY SWITCH

4-WAY SWITCH

DIMMER SWITCH

KEY OPERATED SWITCH

SWITCH WITH PILOT LIGHT

THERMAL OVERLOAD SWITCH

DIGITAL LIGHTING CONTROL SWITCH

WALL OCCUPANCY SENSOR SWITCH

CEILING OCCUPANCY SENSOR

PHOTOCELL/ PHOTOSENSOR

PUSH BUTTON SWITCH

EMERGENCY POWER CONTROL UNIT, UL 924

TIME CLOCK

THERMOSTAT

RELAY

LUMINAIRES

LUMINAIRE TYPE, REFERENCING LUMINAIRE SCHEDULE, TYPICAL ALL FIXTURES. LOWER CASE SUBSCRIPT, IF SHOWN, REFERENCES WALL SWITCH.

(A) = ALL TYPE "A" LUMINAIRES IN ROOM OR AREA UON.

WALL-MOUNTED LUMINAIRE

SURFACE-MOUNTED LUMINAIRE

RECESSED LUMINAIRE

DOWNLIGHT

WALLWASH LUMINAIRE

SURFACE CEILING LUMINAIRE

SMALL PENDANT LUMINAIRE

LARGE PENDANT LUMINAIRE

ACCENT LUMINAIRE

STEP LUMINAIRE

STRIP LIGHT

SURFACE OR PENDANT LIGHTING TRACK

EXIT LIGHT - SHADED INDICATES FACE/ DIRECTIONAL ARROWS AS SHOWN

EMERGENCY LIGHTING UNIT W/ BATTERY

EMERGENCY LUMINAIRE - SHADED

FLUORESCENT PORCELAIN LAMP HOLDER

POOL LUMINAIRE

CEILING FAN

EXTERIOR AREA LIGHT

EXTERIOR WALL PACK

FIRE ALARM

FIRE ALARM CONTROL PANEL

FIRE ALARM ANNUNCIATOR/GRAPHIC MAP

MASS NOTIFICATION CONTROL PANEL

CONTROL MODULE

MONITOR MODULE

HEAVY DUTY RELAY

MANUAL PULL STATION

WALL-MOUNTED ADA STROBE (BY FIRE CONTRACTOR) AND MASS NOTIFICATION STROBE (BY MASS CONTRACTOR)

WALL-MOUNTED ADA STROBE WITH HORN

WALL-MOUNTED ADA STROBE WITH SPEAKER (BY FIRE CONTRACTOR) AND MASS NOTIFICATION STROBE (BY MASS CONTRACTOR)

WALL-MOUNTED HORN

WALL-MOUNTED SPEAKER

CEILING-MOUNTED SPEAKER

AMPLIFIER

ELECTROMAGNETIC DOOR HOLD OPEN

SPRINKLER FLOW SWITCH

SPRINKLER TAMPER SWITCH

THERMAL DETECTOR

PHOTOELECTRIC SMOKE DETECTOR

DUCT SMOKE DETECTOR

SINGLE STATION SMOKE DETECTOR

REMOTE INDICATING LIGHT

REMOTE INDICATING LIGHT WITH TEST SWITCH

120V. MOTORIZED SMOKE DAMPER

RESCUE ASSISTANCE PHONE

FIRE FIGHTERS PHONE JACK

DISTRIBUTION AND RACEWAY

SURFACE-MOUNTED PANELBOARD

RECESSED PANELBOARD

TRANSFORMER

BRANCH CIRCUIT HOMERUN

RACEWAY (CONDUIT) CONCEALED IN FLOOR OR UNDERGROUND

RACEWAY (CONDUIT) EXPOSED OR CONCEALED IN WALL OR CEILING

CAPPED RACEWAY (CONDUIT)

RACEWAY UP

RACEWAY DOWN

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NO.	DATE:	TITLE/PURPOSE:
1	03/22/2024	SITE PLAN APPLICATION 02

SCALE:
ISSUE DATE: **3/22/24**
PROJECT #: **23079**
TITLE: **ELECTRICAL COVER SHEET**

SHEET #:
E001

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GENERAL NOTES FOR EQUIPMENT

1. FIELD VERIFY ALL EQUIPMENT LOADS, VOLTAGES AND RECOMMENDED OCP SIZING PRIOR TO ENERGIZING CIRCUIT.
2. PROVIDE 120V CONTROL WIRING AS REQUIRED BY THE MECHANICAL CONTRACT DOCUMENTS. COORDINATION BETWEEN THE ELECTRICAL CONTRACTOR AND THE MECHANICAL CONTROLS CONTRACTOR SHOULD BE COMPLETED PRIOR TO BIDDING. 120V CONTROL CIRCUITS SHALL BE INCLUDED IN BID.
3. FURNISH DISCONNECT SWITCHES LOCATED EXTERIOR TO THE STRUCTURE WITH NEMA 3R ENCLOSURES UNLESS OTHERWISE SPECIFIED.
4. PROVIDE 120V, WEATHER PROOF, GFCI SERVICE RECEPTACLE WITHIN 25'-0" OF ALL HEATING, AIR-CONDITIONING AND REFRIGERATION (HACR) EQUIPMENT. EXHAUST FANS ARE NOT CONSIDERED HACR EQUIPMENT BY THE NEC. MAX 10 RECEPTACLES PER CIRCUIT. MOUNT RECEPTACLES VERTICALLY.
5. PROVIDE DUCT DETECTION FOR ALL RETURN AIR SYSTEMS WITH A DESIGN CAPACITY GREATER THAN 2000CFM, AND FOR ALL RETURN AIR RISERS THAT SERVE TWO OR MORE STORIES AND SERVE ANY PORTION OF A RETURN AIR SYSTEM HAVING A DESIGN CAPACITY GREATER THAN 15,000 CFM, AND ADDITIONALLY AS REQUIRED BY LOCAL CODES AND AMENDMENTS.
6. REFER TO MECHANICAL PLANS FOR EXACT LOCATION OF ALL MECHANICAL EQUIPMENT AND ASSOCIATED CONTROLS.
7. INSTALL DISCONNECTS FOR EQUIPMENT ON THE EQUIPMENT OR LOCATE IMMEDIATELY ADJACENT TO EQUIPMENT. DO NOT INTERFERE WITH UNITS WORKING CLEARANCES FOR MAINTENANCE.

GENERAL NOTES FOR LIGHTING

1. ALL SELF CONTAINED EMERGENCY EXITS AND LIGHTS SHALL BE WIRED AHEAD OF THE SWITCHED LEG SO THEY COME ON WHEN POWER IS LOST, NOT WHEN LIGHTS ARE TURNED OFF.

ELECTRICAL POOL COORDINATION NOTES

1. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL 120V AND ABOVE WIRING FOR THE POOL. ALL LOW VOLTAGE CONTROL CABLE WILL BE BY THE POOL CONTRACTOR.
2. VFDs WILL BE PROVIDED BY THE POOL MECHANICAL CONTRACTOR, INTERLOCKS WILL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. .
3. REFER TO AQUATIC PLANS SHEETS FOR SCHEMATIC WIRING DIAGRAM. ELECTRICAL SHALL PROVIDE CONDUIT FOR ALL POWER FEEDS, ALL LINE VOLTAGE INTERLOCKS AND ALL LOW VOLTAGE WIRE RUNS.
4. THE ELECTRICAL CONTRACTOR SHALL VERIFY WITH THE POOL CONTRACTOR THAT ALL STARTERS CONTAIN THE NECESSARY CONTACTS FOR THE POOL CONTROLS.
5. PROVIDE NEMA 12 ENCLOSURES FOR ALL POOL STARTERS AND DISCONNECTS. MOUNT TO STRUCTURE OR IN SOME CASES A UNISTRUT FRAME.
6. PROVIDE HAND/OFF/AUTO SWITCHES AND TIMECLOCKS FOR ALL PUMP STARTERS.
7. CIRC PUMP VFDS WILL HAVE A BYPASS FUNCTION TO ALLOW PUMP MOTOR OPERATION BY BYPASSING THE VARIABLE FREQUENCY DRIVE. THIS WILL BE FURNISHED WITH THE VFD BY POOL CONTRACTOR.
8. PROVIDE MANUAL SPEED ADJUSTMENT ON VFD STARTERS. THIS SHOULD BE BY A KEYPAD OR DIAL MOUNTED ON THE FRONT OF THE STARTER ENCLOSURE.
9. VFD MANUFACTURER OR MANUFACTURERS REP MUST PROVIDE FIELD TESTING OF ALL VFD MOTOR DRIVES.
10. VFDS MUST BE LABELED TO OPERATE BETWEEN 15 AND 110 DEGREES CENTIGRADE AS WELL AS HUMIDITY OF UP TO 90% NON CONDENSING.
11. FEATURE PUMPS SHALL ONLY OPERATE WHEN THE FILTRATION PUMP IS IN "AUTO" MODE.
12. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT FOR POOL CONTRACTORS LOW VOLTAGE CABLE. PROVIDE IN BID AND COORDINATE WITH THE POOL CONTRACTORS REQUIREMENTS.

HOUSE KEEPING PADS

1. PROVIDED BY GC. THESE WILL NEED TO BE COORDINATED WITH ELECTRICAL SHOP DRAWINGS AND STRUCTURAL ENGINEER. PADS SHALL BE 4" DEEP AND EXTEND PAST EQUIPMENT BY AT LEAST 4", PROVIDE FOR ALL FLOOR MOUNTED EQUIPMENT INCLUDING MAIN GEAR, SERVICE DISCONNECT AND CT CABINET OUTSIDE AND TRANSFORMERS. TRANSFORMERS HAVE BEEN LINED UP WHERE POSSIBLE SO A SINGLE PAD CAN BE PROVIDED FOR PADS BEING POURED ON THE SLAB ON VOID.

POOL BONDING REQUIREMENTS

1. THE POOL CONCRETE REINFORCING STEEL REBAR SHALL BE BONDED WITH STEEL TIE WIRES, OR EQUAL, AND SHALL THEREBY SERVE AS A EQUIPOTENTIAL BONDING GRID FOR ALL PARTS REQUIRED BY THE 2017 NEC 680.26 TO BE BONDED TOGETHER. BONDING LUGS TO BE SUPPLIED BY POOL CONTRACTOR.
2. WHERE REINFORCING STEEL OF THE POOL SHELL OR THE REINFORCING STEEL OF COPING STONES AND DECK IS ENCAPSULATED WITH A NONCONDUCTIVE COMPOUND OR ANOTHER CONDUCTIVE MATERIAL IS NOT AVAILABLE, PROVISIONS SHALL BE MADE FOR AN ALTERNATIVE MEANS TO ELIMINATE VOLTAGE GRADIENTS THAT WOULD OTHERWISE BE PROVIDED BY UNENCAPSULATED, BONDED REINFORCING STEEL. THESE PROVISIONS ARE AS FOLLOWS:
   A. CREATE AN EQUIPOTENTIAL BONDING GRID CONSTRUCTED OF MINIMUM 8 AWG BARE SOLID CONDUCTORS. CONDUCTORS SHALL BE BONDED TO EACH OTHER AT ALL POINTS OF CROSSING. CONNECTIONS SHALL BE MADE AS REQUIRED BY 680.26(B).
   B. THE EQUIPOTENTIAL BONDING GRID SHALL COVER THE CONTOUR OF THE POOL AND THE POOL DECK EXTENDING 3 FEET HORIZONTALLY FROM THE INSIDE WALLS OF THE POOL. THE GRID SHALL BE ARRANGED IN A 12" X 12" NETWORK OF CONDUCTORS IN A UNIFORMLY SPACED PERPENDICULAR GRID PATTERN WITH A TOLERANCE OF 4".
   C. THE BELOW-GRADE GRID SHALL BE SECURED WITHIN OR UNDER THE POOL AND DECK MEDIA.
3. THE FOLLOWING PARTS SHALL BE BONDED TOGETHER AND CONNECTED TO THE EQUIPOTENTIAL BONDING GRID:
   A. ALL METALLIC PARTS OF THE POOL STRUCTURE, INCLUDING COPING STONES, DECK, PERMANENT PLAY STRUCTURES, PERMANENT EXERCISE STRUCTURES.
   B. ALL METAL FITTINGS WITHIN OR ATTACHED TO THE POOL STRUCTURE.
   C. METAL PARTS ASSOCIATED WITH THE POOL WATER CIRCULATING SYSTEM, INCLUDING PUMPS, FILTERS, AND HEATERS.
   D. METAL PARTS ASSOCIATED WITH POOL COVERS.
   E. METAL SHEATHED CABLES AND RACEWAYS, METAL PIPING, AND ALL FIXED METAL PARTS WITHIN 5 FEET HORIZONTALLY OF INSIDE WALLS OF POOL AND WITHIN 12 FEET ABOVE THE MAXIMUM WATER LEVEL OF THE POOL.
   F. METAL PARTS ASSOCIATED WITH OBSERVATION STANDS, TOWERS, PLATFORMS, AND DIVING STRUCTURES.
4. ISOLATED PARTS THAT ARE NOT MORE THAN 4" IN ANY DIMENSION AND DO NOT PENETRATE INTO THE POOL STRUCTURE MORE THAN 1" SHALL NOT REQUIRE BONDING.
5. BONDING CONDUCTORS SHALL BE MINIMUM 8 AWG SOLID COPPER. ELECTRICAL CONTRACTOR SHALL COORDINATE APPROVED CONNECTOR TYPE AND METHOD WITH LOCAL ELECTRICAL AND/OR POOL INSPECTOR.
6. SPECIFIC MANUFACTURER'S INSTRUCTIONS REGARDING BONDING OR GROUNDING OF POOL EQUIPMENT, WHETHER INDICATED HEREIN OR NOT, SHALL BE STRICTLY FOLLOWED.
7. THE EQUIPOTENTIAL BONDING GRID SHALL NOT BE CONNECTED TO ANY ELECTRICAL DISTRIBUTION EQUIPMENT.
8. ANY PARTS IN ADDITION TO THOSE DESCRIBED HEREIN THAT ARE INDICATED BY POOL CONTRACTOR OR LOCAL INSPECTION AUTHORITY SHALL BE BONDED TO THE EQUIPOTENTIAL BONDING GRID WITH NO ADDITIONAL COSTS INCURRED BY THE OWNER.
9. ROPE ANCHORS WHICH ARE ATTACHED TO A STAINLESS STEEL GUTTER ARE INTERNALLY BONDED TO GUTTER AND SO DO NOT REQUIRE ADDITIONAL BONDING.
10. THE ELECTRICAL CONTRACTOR SHALL COORDINATE BONDING WITH POOL CONTRACTOR AND GENERAL CONTRACTOR.

GENERAL NOTES FOR ALL DRAWINGS

1. UNLESS OTHERWISE NOTED, ITEMS SHOWN ON THE DRAWINGS SHALL BE AS FOLLOWS:
LIGHT LINE WEIGHT = EXISTING TO REMAIN
DARK LINE WEIGHT = NEW OR RELOCATED
CROSS-HATCHING = TO BE REMOVED
2. FOR 120V, 20-AMPERE BRANCH CIRCUITS, PROVIDE THE FOLLOWING SIZE CONDUCTORS:
0-100 FEET: 12 AWG
101-175 FEET: 10 AWG
176-265 FEET: 8 AWG
THE DISTANCES INDICATED REPRESENT THE CONDUCTOR LENGTH FROM THE PANELBOARD TO THE FARTHEST OUTLET ON THE CIRCUIT.
3. TWO-CIRCUIT MULTIWIRE BRANCH CIRCUITS ARE PROHIBITED.
4. UNDERGROUND RACEWAYS AND RACEWAYS EMBEDDED IN SLABS: ALL ELBOWS AND VERTICAL RISERS (STUB-UPS) SHALL BE PVC-COATED RIGID METAL CONDUIT (RMC). THIS INCLUDES ALL SERVICE, FEEDER, BRANCH CIRCUIT, AND SYSTEMS RACEWAYS.
5. SUBMITTAL COORDINATION: THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEW AND COORDINATION OF THE MECHANICAL, POOL, AND OTHER EQUIPMENT SUBMITTALS REQUIRING ELECTRICAL CONNECTION(S). THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO ROUGH-IN OF ANY DISCREPANCIES BETWEEN THE ELECTRICAL CHARACTERISTICS INDICATED ON THE CONSTRUCTION DOCUMENTS AND THOSE LISTED ON THE SUBMITTAL DOCUMENTS.
6. THE ELECTRICAL INSTALLATION SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS OF:
   A. BUILDING DEPARTMENT
   B. CITY, COUNTY, AND STATE LAWS, ORDINANCES, AND AMENDMENTS.
   C. THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).
   D. THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC).
   E. THE RULES, REGULATIONS, AND STANDARDS OF THE UTILITY COMPANY SUPPLYING ELECTRIC SERVICE TO THE BUILDING.
12. SHOULD ANY CHANGE TO THE CONSTRUCTION DOCUMENTS BE REQUIRED TO COMPLY WITH GOVERNMENTAL OR UTILITY REGULATIONS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO EXECUTION OF THE WORK. THIS WORK SHALL BE CARRIED OUT ACCORDING TO THE APPLICABLE REQUIREMENT(S) WITH THE INSTRUCTION OF THE ARCHITECT/ENGINEER AT NO ADDITIONAL COST TO THE OWNER.
13. UTILITIES: THE CONTRACTOR SHALL COOPERATE FULLY WITH THE LOCAL UTILITY COMPANIES WITH RESPECT TO THEIR SERVICES. THE CONTRACTOR SHALL INCLUDE IN THEIR BID ANY COSTS TO BE INCURRED RELATIVE TO THE POWER SERVICE (PRIMARY AND/OR SECONDARY), TELEPHONE SERVICE, DATA SERVICE, TV SERVICE AND CITY FIBER SERVICE.
14. ELECTRICAL CONTRACTOR SHALL HAVE THE MANUFACTURER OF ELECTRICAL EQUIPMENT SUCH AS SWITCHBOARDS, PANELBOARDS AND METER ENCLOSURES PROVIDE ARC-FLASH HAZARD WARNING SIGNS PER NEC 110.16. ARC FLASH CALCULATIONS SHALL BE SUBMITTED TO THE ENGINEER IN THE SHOP DRAWINGS FOR APPROVAL.
15. DRAWINGS WILL CALL OUT SPECIFIC PARTS IN AREAS, THESE ARE NOT INTENDED TO BE A SOLE SOURCE ITEM. THESE ARE THE BASIS OF DESIGN. OWNER, ARCHITECT AND ENGINEER APPROVED EQUALS ARE FINE PENDING THEY MEET ALL SPECIFICATIONS SHOWN ON THE PLANS AND SPECIFICATION BOOKLET.
16. PROVIDE SCHEDULE 40 PVC CONDUITS IN POOL PUMP HOUSE.
17. ALL SITE CIRCUITS, 120V, SHALL BE #10 COPPER UNLESS OTHERWISE NOTED ON PLANS.
18. EXPOSED CONDUIT SHALL BE KEPT TO A MINIMUM IN THE BATHHOUSE. EXPOSED CONDUITS WILL BE ALLOWED IN THE UTILITY ROOM, JANITOR CLOSET, AND PLUMBING CHASES. ELECTRICAL CONTRACTOR SHALL RUN CONDUITS UNDERGROUND THEN STUB UP INTO CMU WALLS. FOR ITEMS MOUNTED TO THE CEILING CONDUITS SHALL BE RUN IN CEILING CAVITY. IF EXPOSED CANNOT BE AVOIDED PRIOR TO ROUGH-IN PROVIDE THE ARCHITECT AND ENGINEER WITH ROUTING IN AN RFI. EXPOSED CONDUITS SHALL BE RUN IN GROUPS, TIGHT TO THE DECK, AND PAINTED. THIS MUST BE ACCOUNTED FOR IN BID. ELECTRICAL CONTRACTOR SHALL PASS THIS ONTO HIS SUBS. NO EXPOSED CABLE. ALL CONDUITS RUN IN WALLS AND CEILING CAVITY.
19. USE GALVANIZED HANGERS AND UNISTRUT FOR ALL SUPPORT SYSTEMS.
20. THE AVAILABLE FAULT CURRENT AT THE SERVICE EQUIPMENT SHALL BE FIELD MARKED PER FAULT CURRENT CALCULATION AS "___A" AND DATED "__-__-__" PER NEC 110.24(A).

SCHEMATIC COORDINATION NOTES

1. REFER TO AQUATIC AND MECHANICAL PLANS AND NARRATIVES FOR THEIR SCOPE. ELECTRICAL WILL PROVIDE CONDUCTORS, CONDUIT AND DISCONNECTS FOR ALL POOL AND MECHANICAL EQUIPMENT.

ELECTRICAL DEMOLITION NOTES

1. EXISTING BUILDING AND SITE ELECTRICAL IS TO BE COMPLETELY REMOVED. CIVIL PLANS INDICATE THE EXISTING BUILDING AND SITE BEING REMOVED.
2. EXISTING WIRE AND CONDUITS SHOULD BE REMOVED. EXISTING CONDUITS CAN BE REUSED TO THE EXTENT POSSIBLE FOR EXISTING ITEMS BEING REPLACED AND REFED FROM THE NEW BUILDING. BUT ALL NEW WIRE SHOULD BE PROVIDED NO MATTER WHAT.
3. THE GENERAL CONTRACTOR SHALL INCLUDE IN HIS COST THE REMOVAL OF ALL EXISTING ELECTRICAL DEVICES, CONDUITS, FIXTURES AND EQUIPMENT AS INDICATED ON DEMO PLANS. DISCARD ALL EQUIPMENT AS REQUIRED. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR DISCONNECTING ELECTRICAL SERVICE TO DEVICES AND EQUIPMENT AND PROVIDING TEMPORARY POWER.

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NO.	DATE:	TITLE/PURPOSE:
1	03/22/2024	SITE PLAN APPLICATION 02

SCALE:
ISSUE DATE: **3/22/24**
PROJECT #: **23079**
TITLE: **ELECTRICAL GENERAL NOTES**

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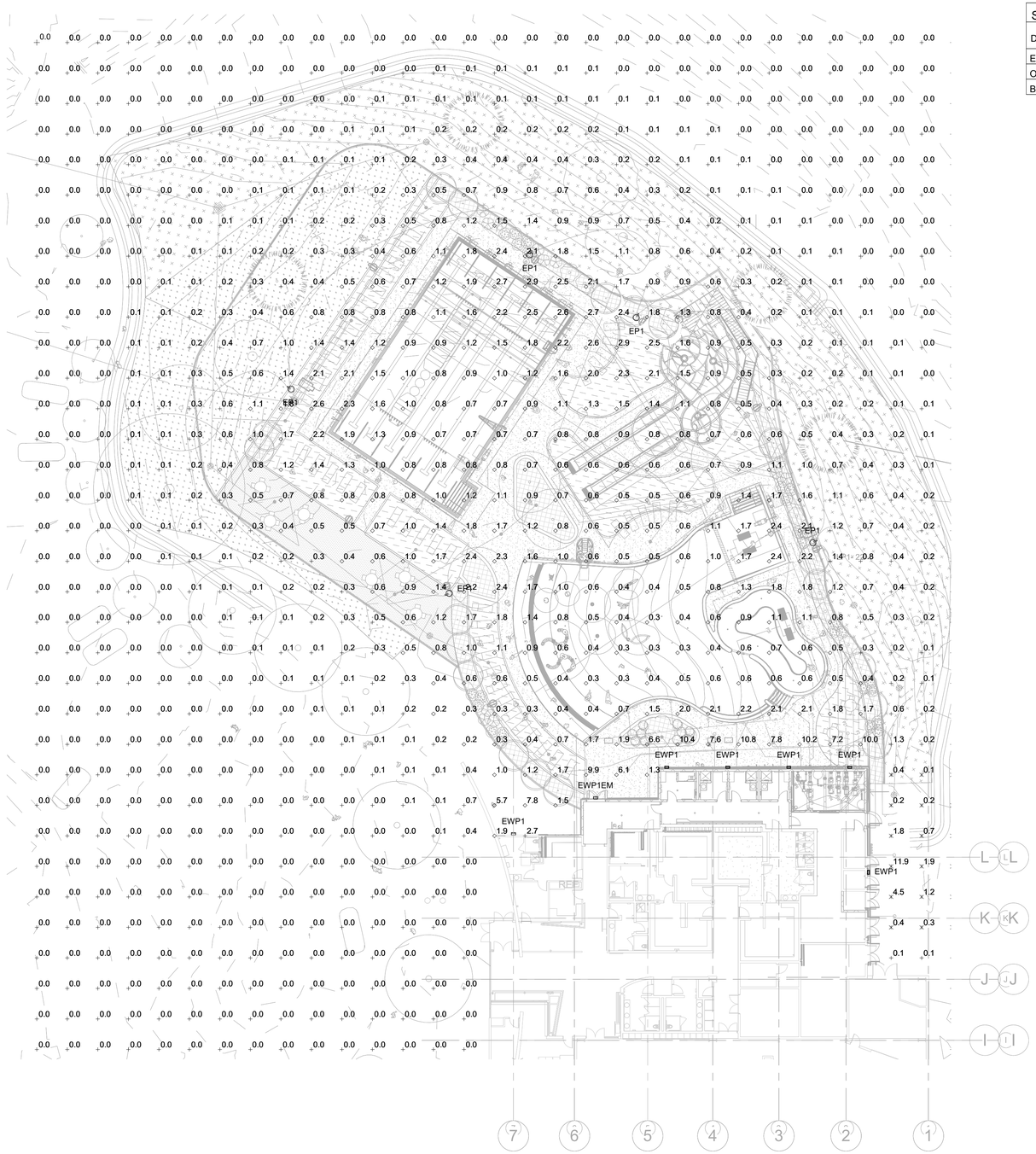

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
EXTERIOR POOL AREA	◇	1.4 fc	10.8 fc	0.2 fc	54.0:1	7.0:1
OVERALL	+	0.4 fc	11.9 fc	0.0 fc	N/A	N/A
BACK OF HOUSE AREA	✳	1.4 fc	11.9 fc	0.1 fc	119.0:1	14.0:1

1 ELECTRICAL PHOTOMETRIC SITE PLAN
1" = 20'-0"

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NO.	DATE:	TITLE/PURPOSE:
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SCALE: **1" = 20'-0"**
ISSUE DATE: **3/22/24**
PROJECT #: **23079**
TITLE: **ELECTRICAL PHOTOMETRIC SITE PLAN**

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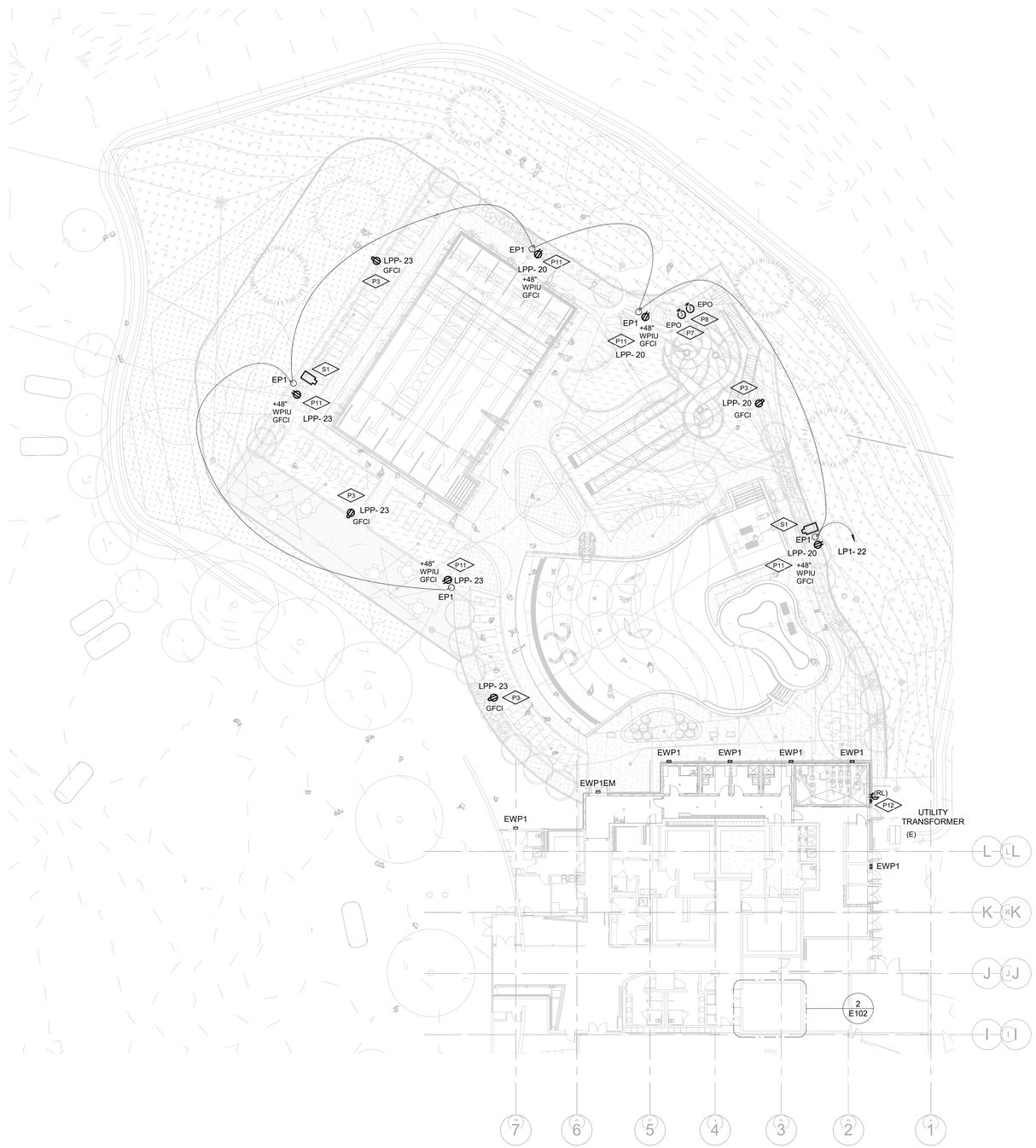

1 ELECTRICAL SITE PLAN
1" = 20'-0"

KEYNOTE LEGEND	
Key Value	Keynote Text
P3	PROVIDE BLACK POWER PEDESTAL, NEMA 3R, HINGED LOCKABLE TOP, SPACE FOR A NEMA 5-20R, GFCI DEVICE, 42" TALL. PEDOC #1P42-C-HT-B OR EQUAL. WILL NEED TO BE BOLTED TO A CONCRETE BASE. BASE NEEDS TO BE PROVIDED BY THE GC.
P7	PROVIDE A RED MUSHROOM HEAD EPO SWITCH TO TURN OFF OPEN FLUME SLIDE PUMP, PP2. COORDINATE MOUNTING AT TOP OF SLIDE WITH STAIR PROVIDER PRIOR TO ROUGH-IN. EPO SHALL BE 24V WITH A NORMALLY CLOSED MAINTAINED CONTACT. PROVIDE WP ENCLOSURE. LABEL "OPEN FLUME SLIDE EMERGENCY SHUTOFF".
P8	PROVIDE A RED MUSHROOM HEAD EPO SWITCH TO TURN OFF CLOSED FLUME SLIDE PUMP, PP3. COORDINATE MOUNTING AT TOP OF SLIDE WITH STAIR PROVIDER PRIOR TO ROUGH-IN. EPO SHALL BE 24V WITH A NORMALLY CLOSED MAINTAINED CONTACT. PROVIDE WP ENCLOSURE. LABEL "CLOSED FLUME SLIDE EMERGENCY SHUTOFF".
P11	PROVIDE GFCI DUPLEX WITH WPIU COVER MOUNTED TO POLE.
P12	RELOCATE EXISTING METER TO THE EXTERIOR WALL OF THE NEW POOL MECHANICAL ROOM.
S1	POLE MOUNTED CAMERA. PROVIDE 120V TO CAMERA.

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ISSUE DATE: **3/22/24**
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TITLE: **ELECTRICAL SITE PLAN**

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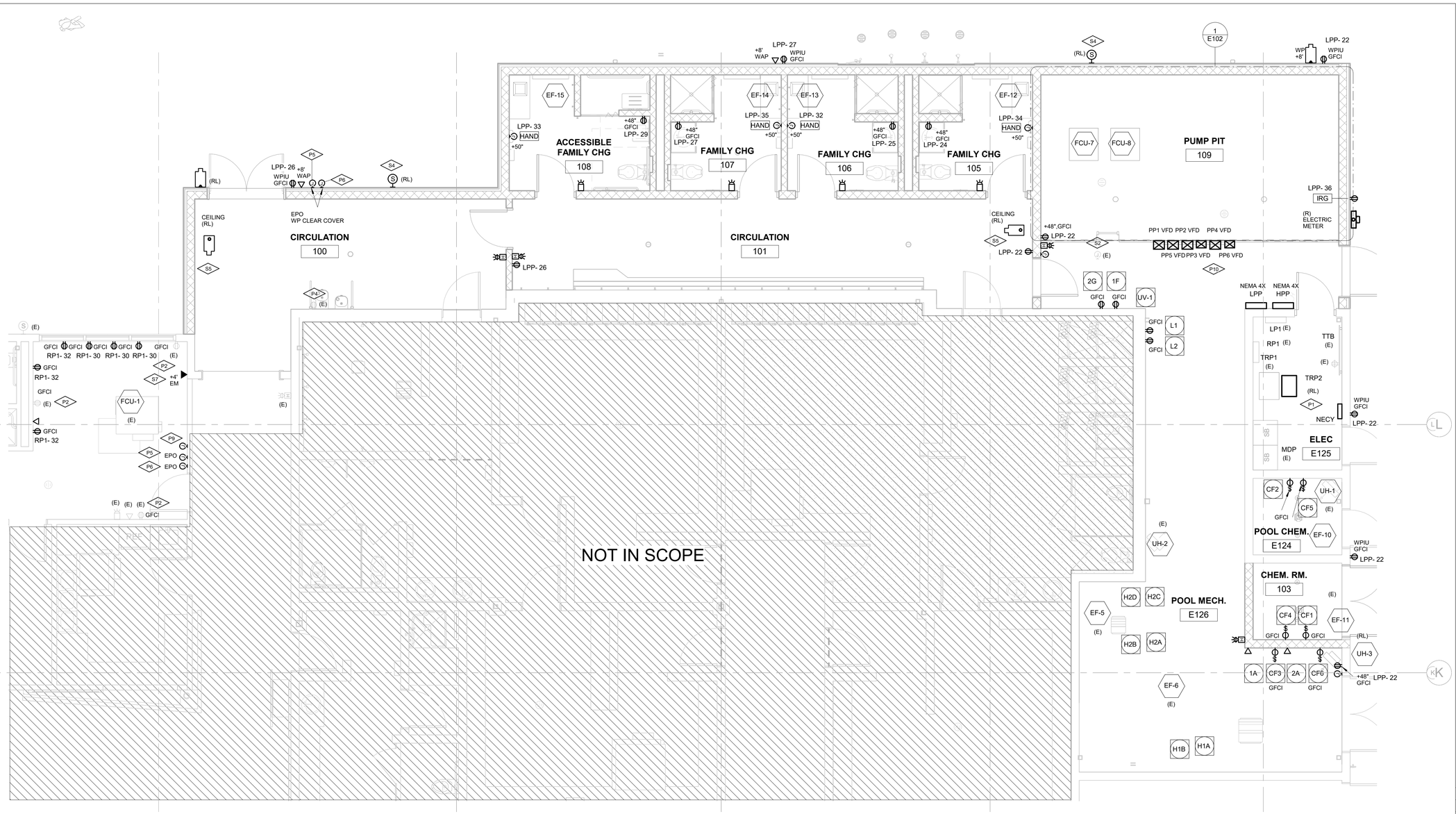

KEYNOTE LEGEND	
Key Value	Keynote Text
P1	MOUNT NEW 45KVA TRANSFORMER ABOVE EXISTING TRANSFORMER SUSPENDED. REFER TO DETAIL 1 SHEET E510.
P2	REPLACE EXISTING NEMA 5-20R OUTLET WITH NEW NEMA 5-20R GFCI DEVICE.
P4	PROVIDE A NEW NEMA 5-20R DEVICE AND CONNECT TO EXISTING CIRCUIT.

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 CHANEL", (1) FOR SPRAY FEATURES PUMP PP6 LABELED "SPRAY FEATURE".

KEYNOTE LEGEND	
Key Value	Keynote Text
P10	VFD DRIVES ARE FURNISHED BY THE POOL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. TYPICAL (6). mOUNT TO A UNISTRUT RACK.
S2	EXISTING SATELLITE MOUNTED TO SOFFIT TO REMAIN. CABLE WILL NEED TO BE REROUTED THROUGH THE NEW ADDITION AND RECONNECTED. PROTECT DURING CONSTRUCTION.

KEYNOTE LEGEND	
Key Value	Keynote Text
S4	MOUNT RELOCATED SPEAKERS AS HIGH UP ON WALL AS POSSIBLE. RECONNECT TO EXISTING SOUND SYSTEM.
S5	RELOCATED CAMERA FROM OUTSIDE.
S7	PROVIDE EMERGENCY PHONE WITH DIRECT DIAL TO "911" WHEN PICKED UP.

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NO.	DATE:	TITLE/PURPOSE:
1	03/22/2024	SITE PLAN APPLICATION 02

SCALE: 1/4" = 1'-0"
ISSUE DATE: 3/22/24
PROJECT #: 23079
TITLE: FIRST FLOOR POWER & SYSTEMS PLAN

SHEET #:
E101

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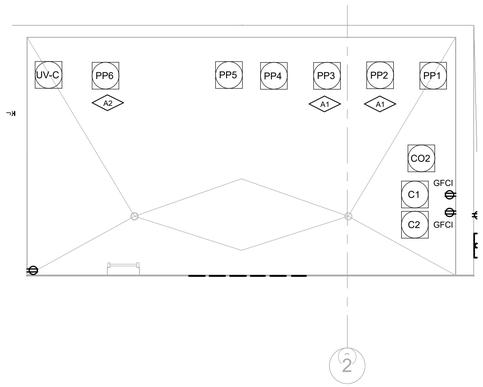
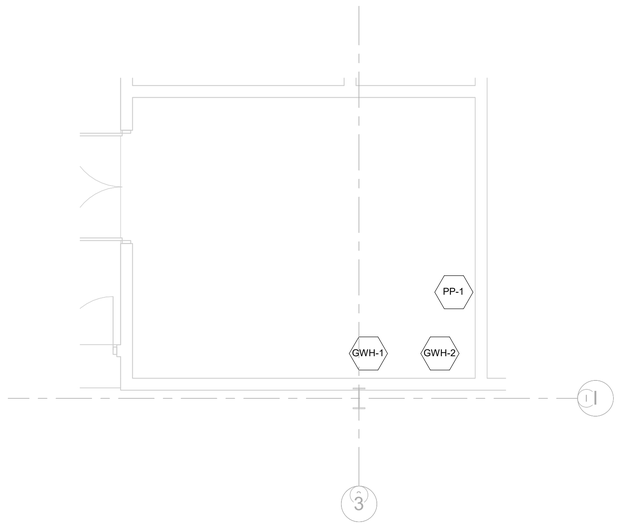
KEYNOTE LEGEND	
Key Value	Keynote Text

A1	PRICE ALL PARTS ASSOCIATED WITH SLIDE PUMPS AS ALTERNATE #1.
A2	PRICE ALL PARTS ASSOCIATED WITH THE SPRAY FEATURE PUMP AS ALTERNATE #2.



1 POOL PIT POWER PLAN
1/4" = 1'-0"



2 MECHANICAL ROOM NEW PLUMBING EQUIPMENT
1/4" = 1'-0"

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1	03/22/2024	SITE PLAN APPLICATION 02

SCALE: **1/4" = 1'-0"**
ISSUE DATE: **3/22/24**
PROJECT #: **23079**
TITLE: **DETAIL ELECTRICAL PLANS**

SHEET #:
E102

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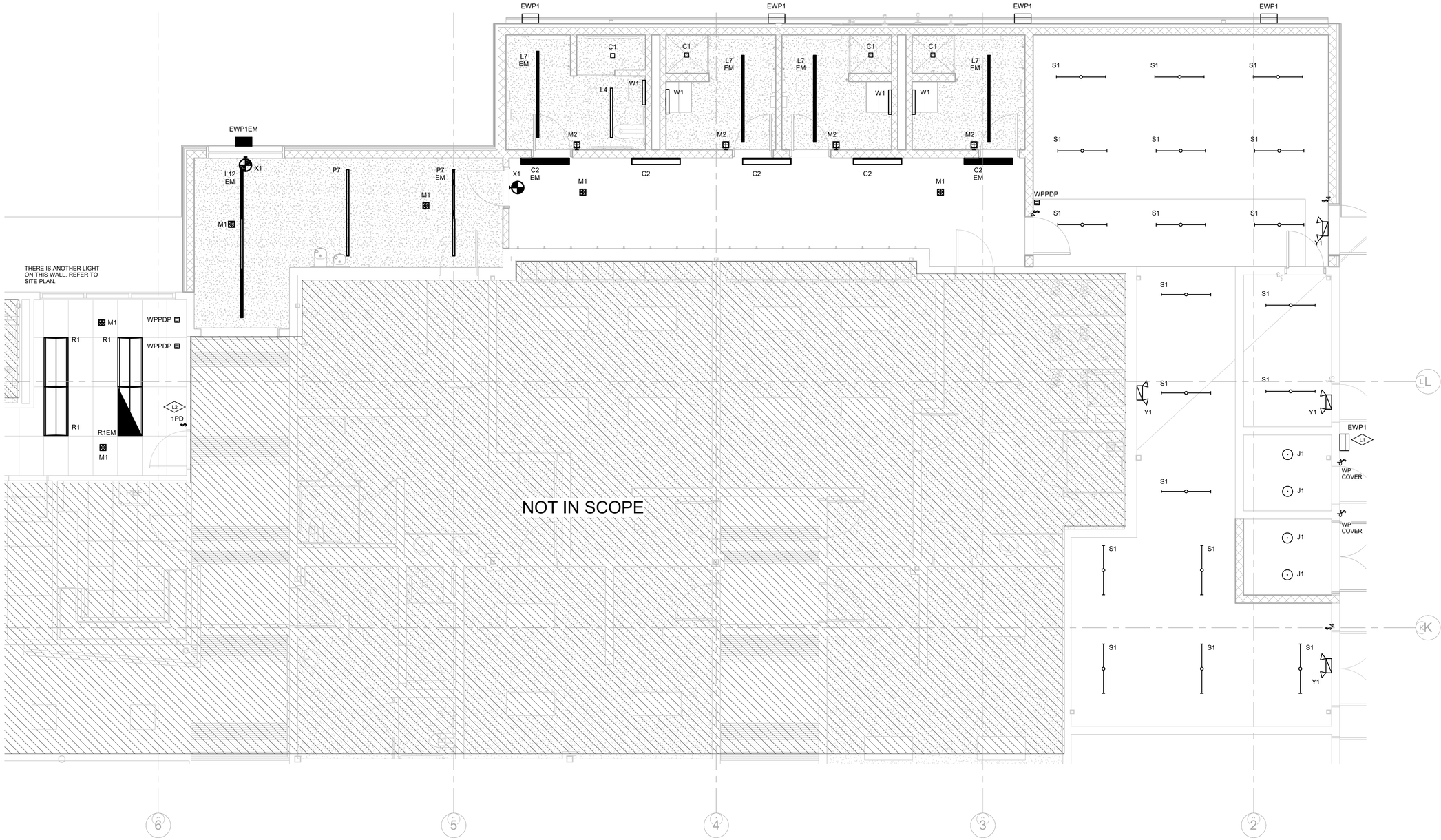

1 FIRST FLOOR LIGHTING PLAN
1/4" = 1'-0"

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.

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SCALE: **1/4" = 1'-0"**
ISSUE DATE: **3/22/24**
PROJECT #: **23079**
TITLE: **FIRST FLOOR LIGHTING PLAN**

SHEET #:
E111

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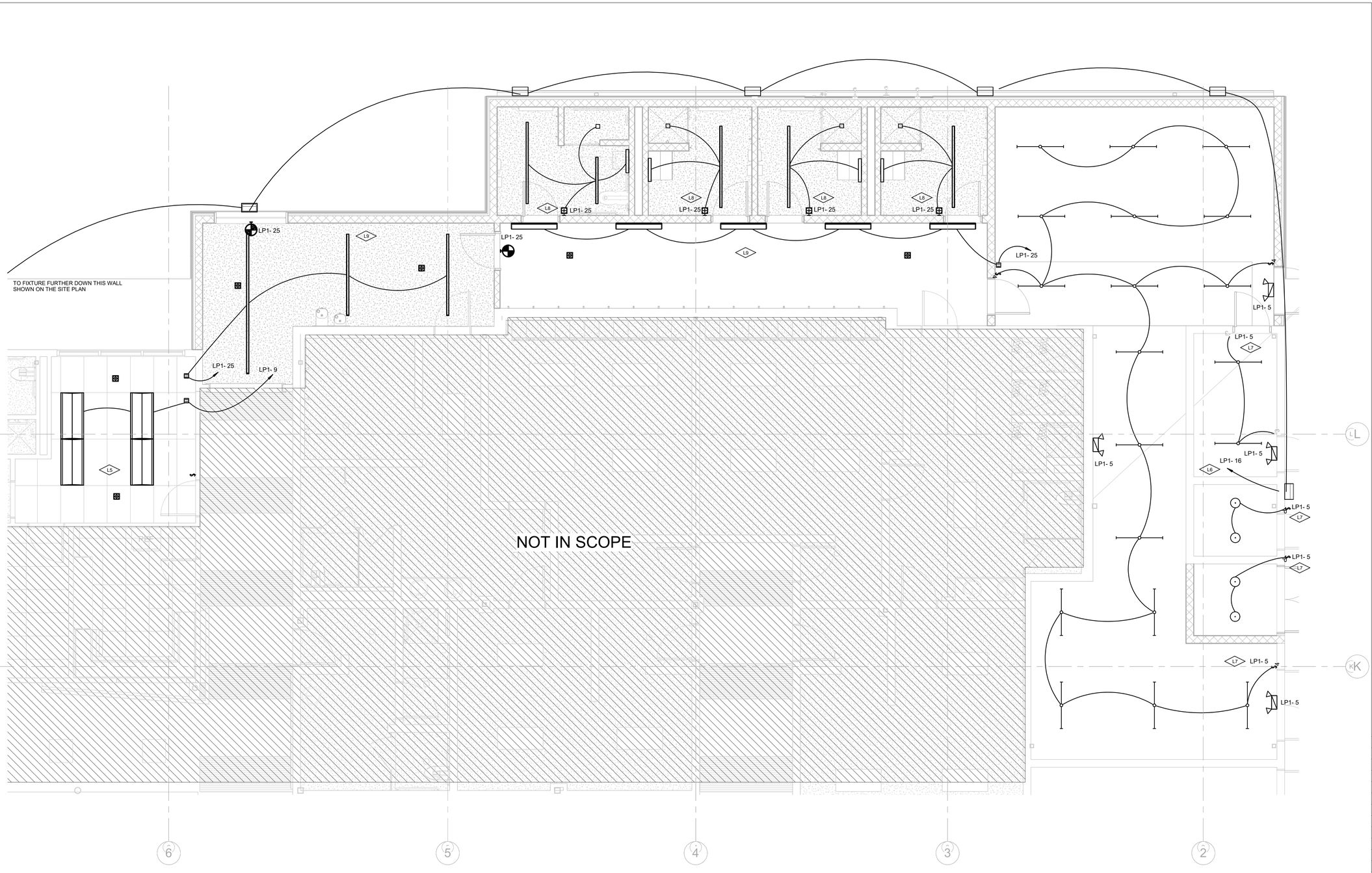

1 FIRST FLOOR LIGHTING CONTROL PLAN
1/4" = 1'-0"

KEYNOTE LEGEND	
Key Value	Keynote Text
L5	REFER TO DETAIL 2 SHEET E520 FOR SCHEMATIC DIAGRAM OF LIGHTING CONTROL IN THIS ROOM.
L6	WALLPACKS ARE CONNECTED TO EXISTING EXTERIOR LIGHITNG CIRCUIT. CONTROL WILL BE WIRELESS. REFER TO DETAIL 1 SHEET E520.
L7	REUSE EXISTING CIRCUT FOR EXISTING CHEMICAL, POOL EQUIPMENT AND POOL STORAGE ROOM LIGHITNG FOR NEW LIGHTING.

KEYNOTE LEGEND	
Key Value	Keynote Text
L8	CONNECT NEW LOCKER ROOM LIGHTING TO EXISTING CIRCUIT.
L9	REFER TO DETAIL 3 SHEET E520 FOR SCHEMATIC DIAGRAM OF LIGHTING CONTROL IN HALL. LIGHTS WILL BE AUTO ON AND AUTO OFF BY MOTION SENSORS.

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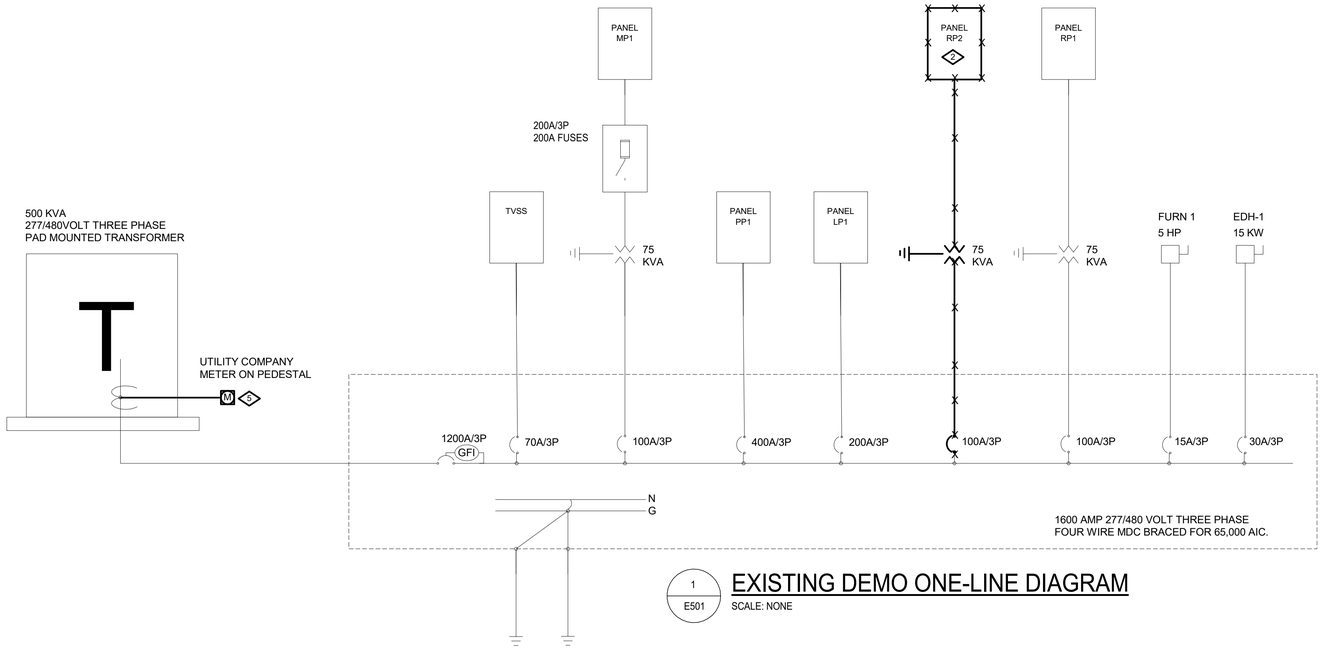
SCALE: **1/4" = 1'-0"**
ISSUE DATE: **3/22/24**
PROJECT #: **23079**
TITLE: **FIRST FLOOR LIGHTING CONTROL PLAN**

SHEET #:
E121



1 / E501 EXISTING DEMO ONE-LINE DIAGRAM

SCALE: NONE

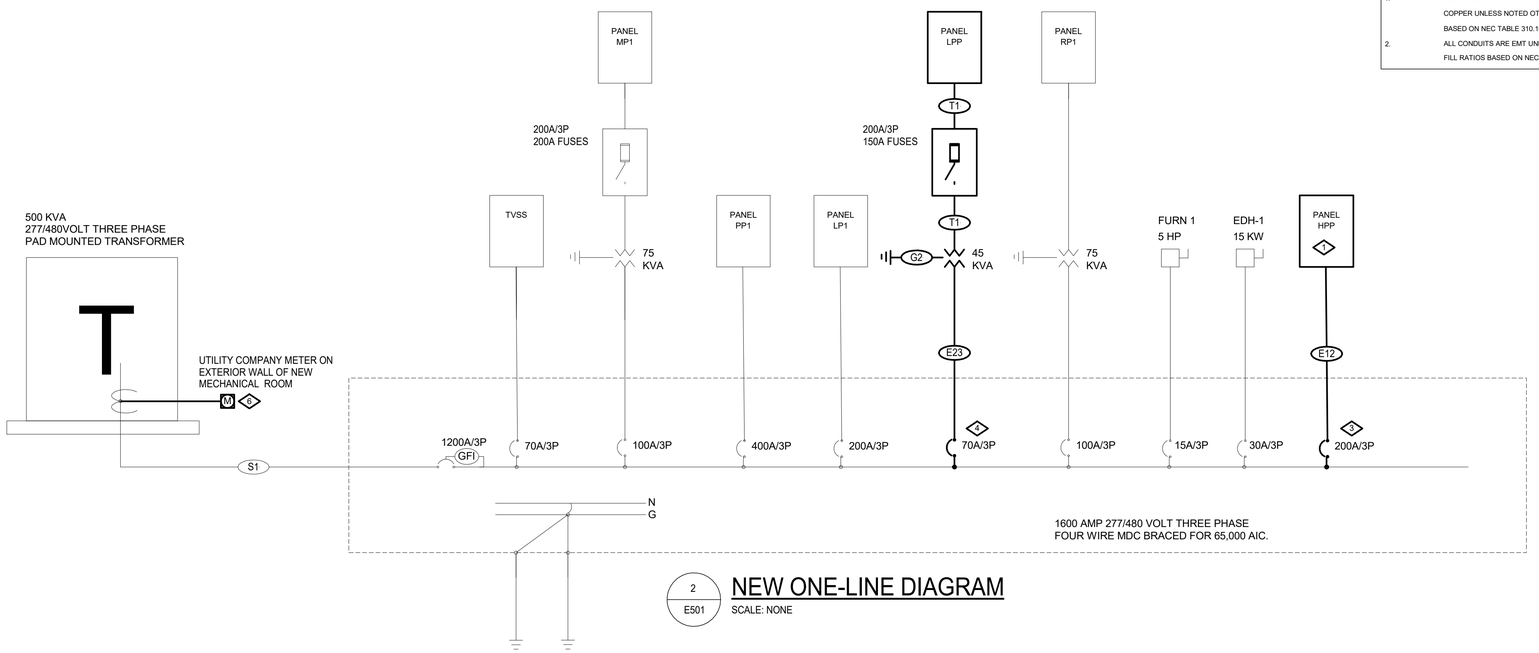
DETAIL NOTES

1. PROVIDE LOCAL TVSS AND ETF FILTER TO PANEL. PROVIDE TOTAL PROTECTION SOLUTIONS LOW PROFILE UNIT #TK-LP120-3Y480-FL. UNIT SHALL CONNECT TO PANEL BY A BREAKER, NOT DIRECT BOLT TO THE BUS.
2. PANEL WILL BE REPLACD WITH A NEMA 4X RATED PANEL.
3. PROVIDE NEW BREAKER IN EXISTING SPACE. NEW BREAKER SHALL MATCH EXISTING BREAKERS IN PANEL.
4. REPLACE EXISTING 100A/3P BREAKER WITH A NEW 70A/3P BREAKER.
5. EXISTING UTILITY METER MOUNTED TO REMOVED FENCE WILL NEED TO BE RELOCATED.
6. REFER TO PLANS, UTILITY METER TO BE MOUNTED TO EXTERIOR WALL OF NEW POOL MECHANICAL ROOM.

FEEDER SCHEDULE

FEEDER NO.	FEEDER CONDUCTORS	PHASE	AMPS
SERVICE ENTRANCE FEEDERS			
S1	4[4-350KCMIL, 3"C]	3-4W	1240
EQUIPMENT FEEDERS			
E12	4-3/0, 1#6G, 2"C	3-4W+G	200
E23	3#4, 1#8G, 1-1/4"C	3-3W+G	70
GROUNDING ELECTRODE CONDUCTORS			
G2	1#6, 1/2"C	G	
TRANSFORMER SECONDARY FEEDER			
T1	4-1/0, 1#6G, 2"C	3-4W+G	150

NOTE:
1. ALL CONDUCTORS ARE SINGLE CONDUCTOR, THWN, COPPER UNLESS NOTED OTHERWISE. AMPERAGE BASED ON NEC TABLE 310.16.
2. ALL CONDUITS ARE EMT UNLESS NOTED OTHERWISE. FILL RATIOS BASED ON NEC ANNEX C, TABLE C1.



2 / E501 NEW ONE-LINE DIAGRAM

SCALE: NONE

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TITLE: **ELECTRICAL ONE-LINE DIAGRAM**

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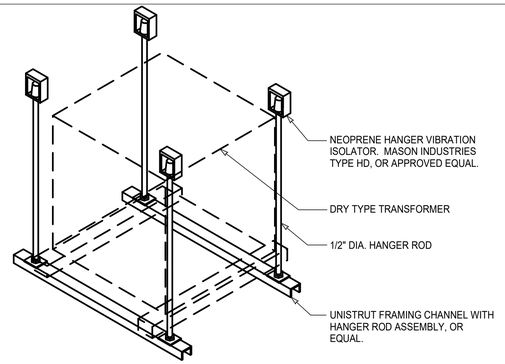
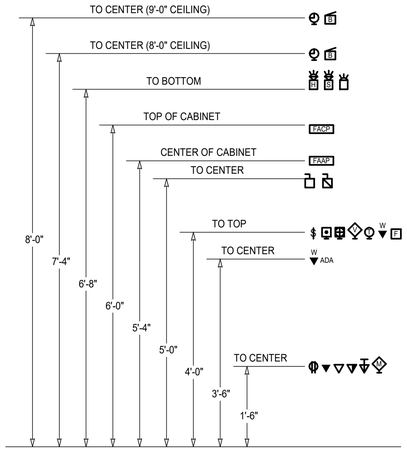


1 / E510 SUSPENDED TRANSFORMER DETAIL

NO SCALE

NOTES:

1. ALL TRANSFORMERS ARE FLOOR MOUNTED UNLESS NOTED OTHERWISE ON PLANS. THIS DETAIL SHALL ONLY BE USED WHEN IT IS REFERENCED FROM THE PLANS.
2. FASTEN VIBRATION HANGER RIGIDLY TO STRUCTURE ABOVE. SIZE TO ACCOMMODATE TRANSFORMER WEIGHT. BOLT TRANSFORMER TO STRUT.
3. USE FLEXIBLE METAL CONDUIT TO CONNECT PRIMARY AND SECONDARY FEEDERS TO TRANSFORMER HOUSING.
4. MOUNT BOTTOM OF TRANSFORMER SUPPORTS AS HIGH AS POSSIBLE, BUT NO LOWER THAN 6'-8" AFF.
5. MAINTAIN MANUFACTURER'S RECOMMENDED VENTILATION REQUIREMENTS.

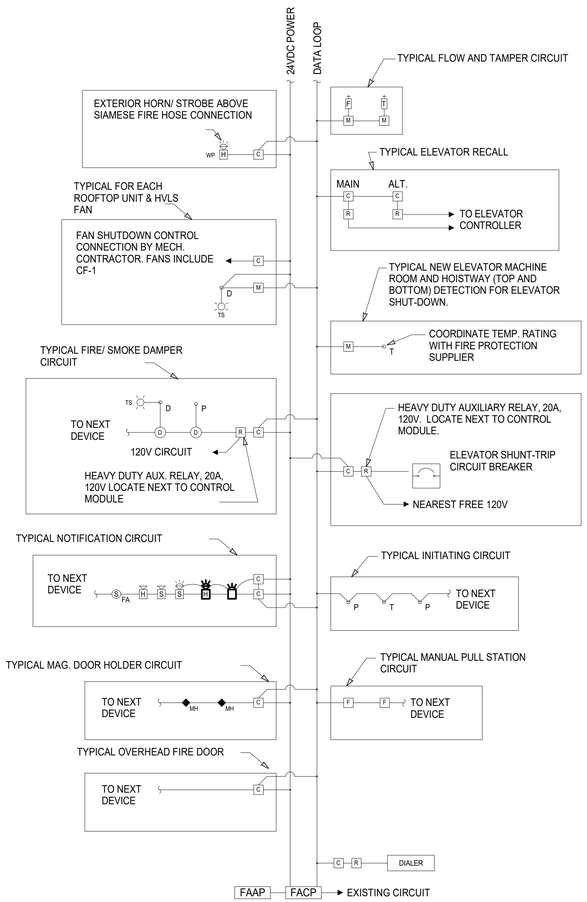


2 / E510 TYPIAL MOUNTING HEIGHTS

SCALE: NONE

NOTES:

1. MOUNT ELECTRICAL DEVICES AT HEIGHTS SHOWN UNLESS OTHERWISE NOTED ON THE DRAWINGS.
2. VERIFY DEVICE MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO ROUGH-IN.



FIRE ALARM GENERAL NOTES
1. THERE IS AN EXISTING FIRE ALARM SYSTEM THAT SHALL BE REUSED. CONNECT NEW DEVICES TO EXISTING SYSTEM.
2. PROVIDE WIRING AS DIRECTED BY FIRE ALARM SYSTEM MANUFACTURER. CABLE ONLY NEEDS TO BE IN 3/4" CONDUIT WHEN ABOVE INACCESSIBLE CEILINGS. CABLE CAN BE RUN OPEN ABOVE ACCESSIBLE CEILINGS AND OPEN AREAS. ONLY AREA EXPOSED CABLE IS NOT ALLOWED IS THE LOBBY.
3. INSTALL CONTROL MODULES WITHIN 3'-0" OF DEVICE OR EQUIPMENT BEING CONTROLLED.
4. PROVIDE REMOTE POWER SUPPLIES AS REQUIRED. MOUNT IN ELECTRICAL ROOMS OR IDF ROOMS. PROVIDE 20% SPARE CAPACITY ON ALL INITIATION AND NOTIFICATION CIRCUITS.
5. COORDINATE WITH FIRE SPRINKLER CONTRACTOR FOR QUANTITIES AND LOCATIONS OF ALL FLOW AND TAMPER SWITCHES.
6. ALL DEVICES INSTALLED IN DAMP, WET OR EXTERIOR LOCATIONS SHALL BE FURNISHED WITH WP HOUSINGS.
7. THE ACTIVATION OF A DUCT SMOKE DETECTOR SHALL INDICATE A SUPERVISORY CONDITION AT THE FIRE ALARM CONTROL PANEL, NOT A GENERAL BUILDING ALARM.
8. THE ELECTRICAL CONTRACTOR SHALL OBTAIN THE APPROPRIATE STAMP AND SEAL OF A REGISTERED ENGINEER ON THE FIRE ALARM SHOP DRAWINGS. THE ENGINEER OF RECORD FOR THESE DOCUMENTS SHALL NOT BE RESPONSIBLE FOR STAMPING AND SEALING THE FIRE ALARM SHOP DRAWINGS.
9. THE ELECTRICAL CONTRACTOR AND THEIR FIRE ALARM VENDOR/ SUB-CONTRACTOR ARE RESPONSIBLE FOR PROVIDING A COMPLETE AND OPERATIONAL FIRE ALARM SYSTEM THAT MEETS ALL APPROPRIATE BUILDING AND LIFE SAFETY CODES. THE FIRE ALARM DEVICES SHOWN ON THESE DOCUMENTS ARE INDICATED TO DEFINE SCOPE OF WORK ONLY. ALL REQUIRED DEVICES MAY NOT BE SHOWN.
10. THE INTENT OF THIS DIAGRAM IS TO SHOW NEW CONNECTIONS. EXISTING CONNECTIONS SHALL REMAIN AS IS, OR IF A NEW PANEL IS REQUIRED CONNECTED TO THE NEW PANEL.

3 / E510 FIRE ALARM SYSTEM SCHEMATIC

SCALE: NONE

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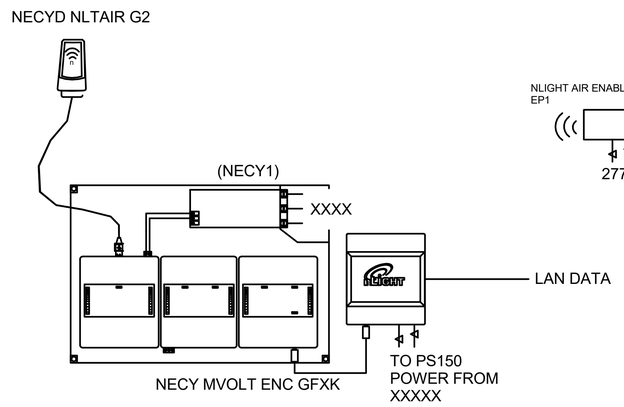
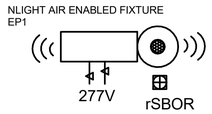
1	03/22/2024	SITE PLAN APPLICATION 02

SCALE:
ISSUE DATE: **3/22/24**
PROJECT #: **23079**
TITLE: **ELECTRICAL DETAILS**

SHEET #:
E510



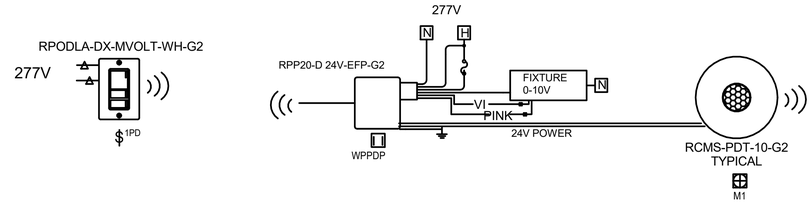


1 E520

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.

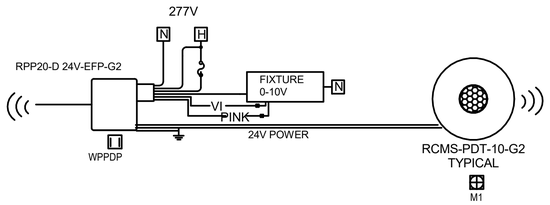


2 E520

LIGHITNG 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.



3 E520

LIGHITNG 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..

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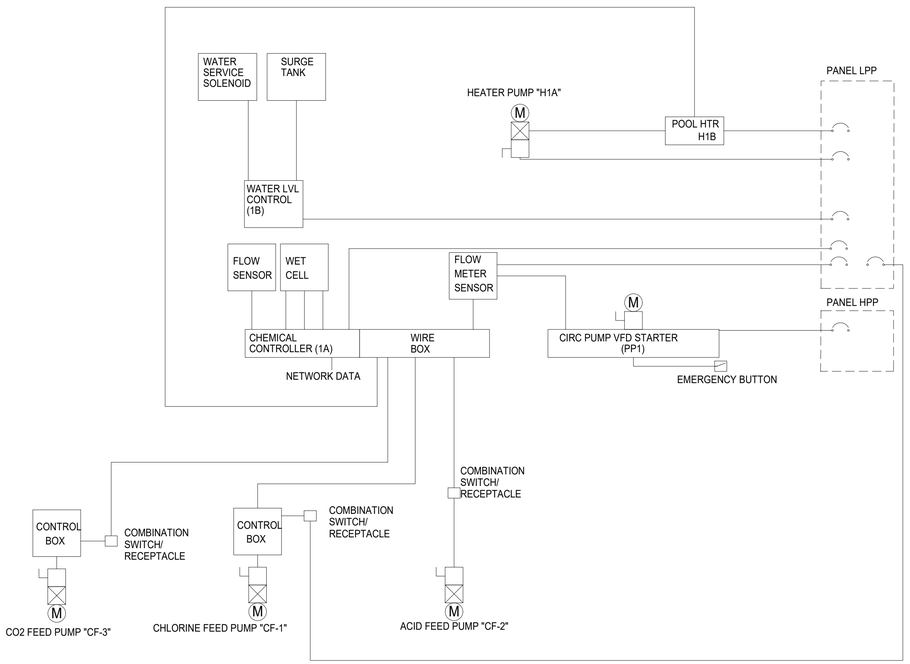
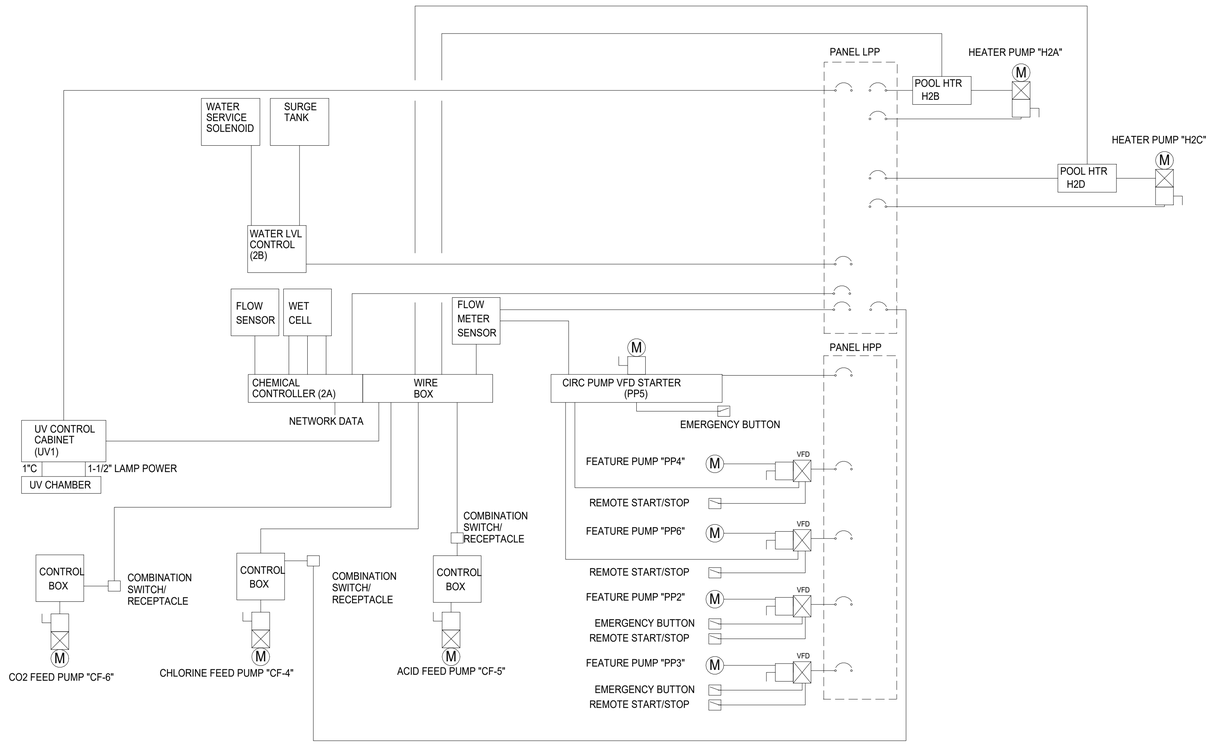


1 E530 **LAP POOL WIRING SCHEMATIC**
SCALE: NONE



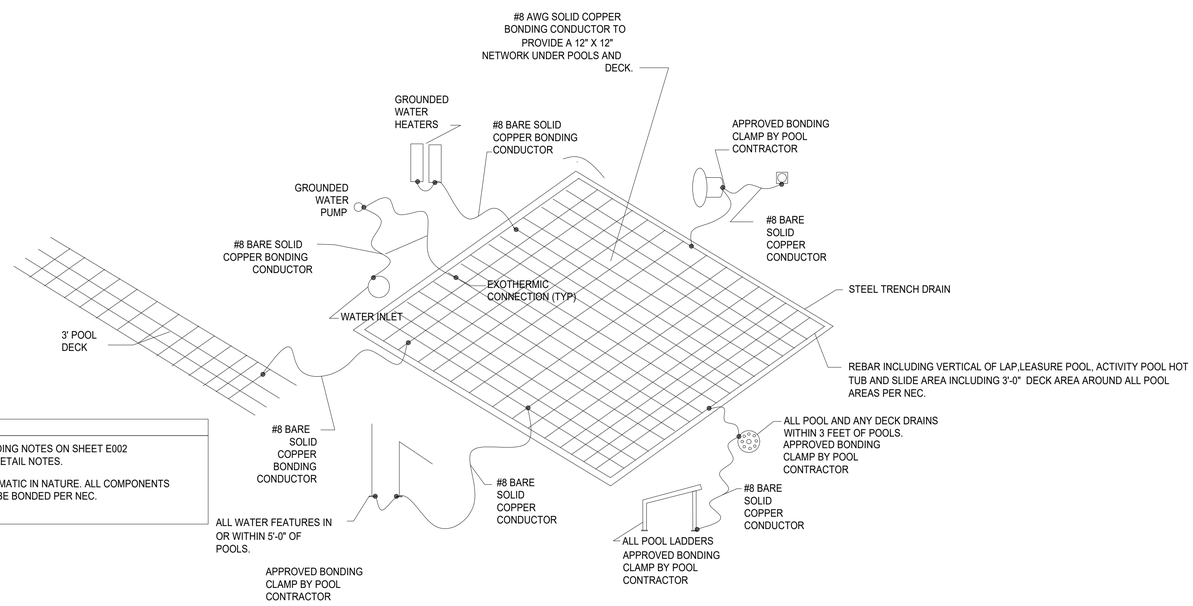
2 E530 **REC POOL WIRING SCHEMATIC**
SCALE: NONE

POOL SCHEMATIC NOTES:

1. ITEMS IN LIGHT LINE WEIGHT ARE PROVIDED BY OTHERS. ITEMS IN DARK LINE WEIGHT ARE PROVIDED BY THE ELECTRICAL CONTRACTOR.
2. CONDUCTOR SIZES AND CONDUITS FOR POWER TO PUMPS, SIZE OF DISCONNECTS AND SIZE OF OVERCURRENT PROTECTION FOR MOTORS IS PER THE POOL EQUIPMENT SCHEDULE.
3. POOL CONTRACTOR TO FURNISH VFDS. ELECTRICAL CONTRACTOR SHALL MOUNT STARTER/DISCONNECTS ON UNISTRUT RACK ABOVE PUMP PIT PUMPS AS SHOWN ON PLANS AND CONNECT.
4. 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.
5. ELECTRICAL CONTRACTOR IS PROVIDING 120V POWER AND UP. ALL ELECTRICAL CONTACTS, DISCONNECTS AND OVERCURRENT PROTECTION IS BY ELECTRICAL CONTRACTOR PER THE PLANS.
6. COORDINATE CONTACTS AND INTERLOCKS WITH POOL CONTRACTOR SO THAT ENOUGH ARE PROVIDED FOR THEIR SEQUENCE OF CONTROLS.
7. SHUTTING OFF THE FILTER PUMP SHALL SHUTOFF ALL OTHER POOL EQUIPMENT, INCLUDING HEATERS AND CHEMICAL FEEDS.
8. 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

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



3 E530 **TYPICAL POOL EQUIPOTENTIAL GRID SCHEMATIC**
SCALE: NONE

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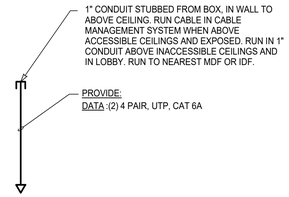
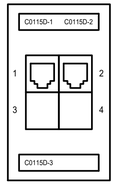




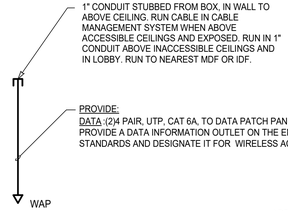
TYPICAL DATA OUTLET FACEPLATE

THIS APPLIES FOR ALL SYMBOLS ON THE SYSTEMS PLANS THAT LOOK LIKE THIS. ▽ AND ☑

1 / E540 DATA OUTLET DETAIL

NO SCALE

NOTES:
1. REFER TO THE DIVISION 27 SPECIFICATION SECTIONS FOR REQUIRED EQUIPMENT AND SPECIFICATIONS.
2. THE CABLE JACKET SHALL COMPLY WITH ARTICLE 80O OF THE NEC FOR USE AS A PLENUM OR NON-PLENUM CABLE.
3. ROUTE CABLING FROM DEVICE TO APPROPRIATE DISTRIBUTION FACILITY.
4. PROVIDE PLASTIC BUSHING ON END OF STUBBED OUT CONDUIT.



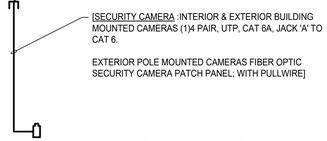
APPLIES TO SYMBOSL LOOKS LIKE THIS:

▽
WAP

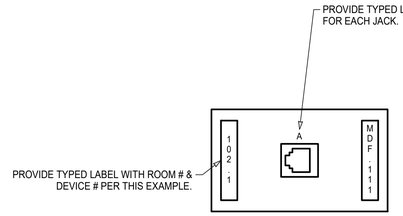
2 / E540 WAP DETAIL

NO SCALE

NOTES:
1. PROVIDE WIFI ROUTER. DEVICE SHALL BE CISCO MERAKI.
2. THE CABLE JACKET SHALL COMPLY WITH ARTICLE 80O OF THE NEC FOR USE AS A PLENUM OR NON-PLENUM CABLE.
3. ROUTE CABLING FROM DEVICE TO APPROPRIATE DISTRIBUTION FACILITY.
4. PROVIDE PLASTIC BUSHING ON END OF STUBBED OUT CONDUIT.
5. PROVIDE 4" OCTAGONAL JUNCTION BOXES FOR CEILING MOUNTED WIFI DEVICES.
6. PROVIDE ALL MOUNTING HARDWARE FOR WIRELESS PORT.
7. TERMINATE ALL WIFI CABLING IN DEDICATED PATCH PANELS.



THIS APPLIES FOR ALL SYMBOLS ON THE SYSTEMS PLANS THAT LOOK LIKE THIS



TYPICAL SECURITY CAMERA FACEPLATE FOR OUTLETS WITH A CABLE RUN TO THE MDF LESS THAN 300 FEET

3 / E540 SECURITY CAMERA OUTLET

NO SCALE

NOTE:
1. THE CABLE JACKET SHALL COMPLY WITH ARTICLE 800 OF THE NEC FOR USE AS A PLENUM OR NON PLENUM CABLE, PROVIDE YELLOW CABLE JACKET FOR SECURITY.
2. ROUTE CABLING FROM DEVICE TO APPROPRIATE DISTRIBUTION FACILITY. TERMINATE SECURITY CABLE ON DEDICATED SECURITY PATCH PANELS.
3. PROVIDE PLASTIC BUSHING ON END OF STUBBED OUT CONDUIT.
4. DETERMINE THE ACTUAL RUN LENGTH OF THE CONDUIT FOR EACH OUTLET FROM THE ELECTRICAL CONTRACTOR AND PROVIDE THE PROPER EQUIPMENT.
5. ALL CAMERAS SHALL BE IP, NO ANALOG.
6. COORDINATE CAMERA MOUNTING HEIGHTS AND LOCATIONS WITH SECURITY CONTRACTOR PRIOR TO ROUGH-IN. LOCATIONS ON PLANS ARE FOR PRICING PURPOSES ONLY. EXACT LOCATIONS SHALL BE BY SECURITY CONTRACTOR.
7. MOUNT EXTERIOR CAMERAS AT LEAST 10' ABOVE GRADE. IF ON A POLE MOUNT AS HIGH ON THE POLE AS POSSIBLE. SECURITY CONTRACTOR SHALL FIELD VERIFY LOCATIONS.
8. INTERIOR CAMERAS SHALL BE CEILING/SURFACE MOUNT.
9. CAMERAS OVER 300' SHALL BE FIBER OPTIC NOT CAT6. EXTERIOR POLE MOLUNTED CAMERAS SHALL BE FIBER OPTIC REGARDLESS OF DISTANCE.

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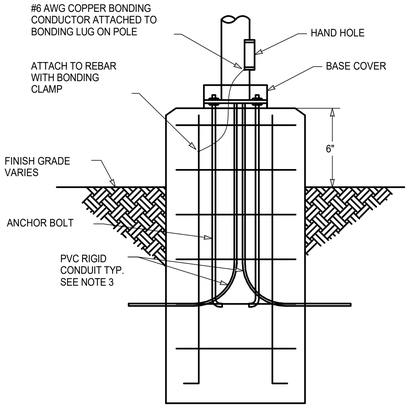
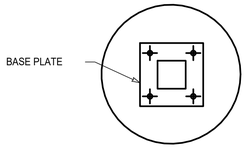
E540



ELEVATION



TOP VIEW

1
E541

POLE BASE DETAIL

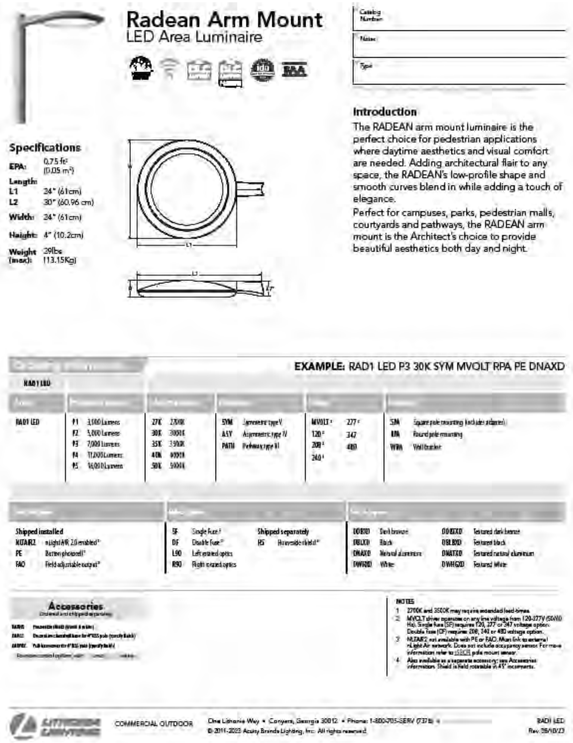
SCALE: NONE

NOTE:

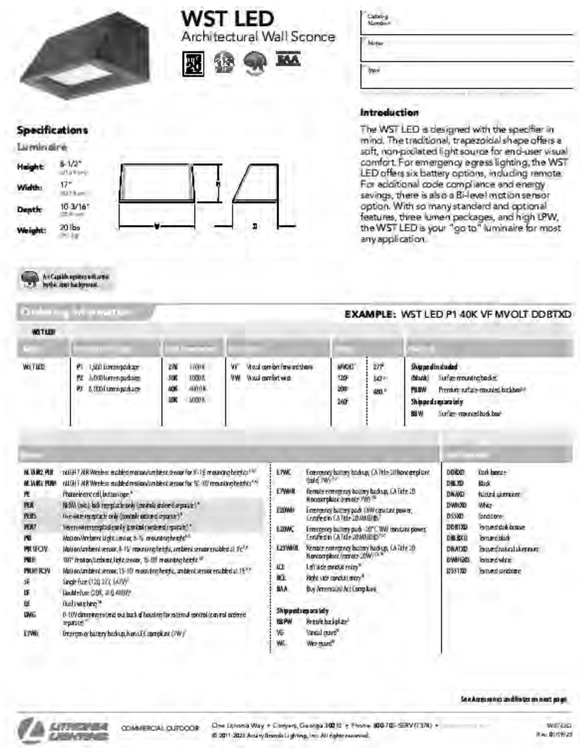
1. COORDINATE DIMENSIONS, AND STRUCTURAL REQUIREMENTS WITH STRUCTURAL PLAN.
2. PROVIDE 6" POLE BASE FOR TYPE EP1 AROUND POOL DECK.
3. PROVIDE A CONDUIT FOR EACH SYSTEM IN THE POLE. (1) 1/2" PVC TO ALL FIXTURES FOR 277V LIGHTING. (1) 1/2" CONDUIT TO EACH POLE FOR 120V RECEPTACLE AND CAMERA POWER CIRCUIT. (1) 1" CONDUIT TO POLES WITH A CAMERA FOR CAMERA FIBER OPTIC CABLE.

EXTERIOR LUMINAIRE SCHEDULE

KEY	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMP QTY	LAMP TYPE	VOLTS	MOUNTING	NOTES	MAX VA
EP1	LED, EXTERIOR ROUND PUCK STYLE AREA LIGHT, MOUNT TO A 20' POLE	LITHONIA	RAD1LED-P3-27K-ASY-MVOLT-RPA-NLTAIR2-CUSTOM COLOR	1	LED	277	POLE, 20' ROUND STRAIGHT STEEL WITH PLANTER ARMS	PROVIDE WITH rSBOR MOTION SENSOR. COLOR TO MATCH EXISTING POLES IN PARKING LOT. PROVIDE AT 4' AFF LOCATION FOR AN DUPLEX RECEPTACLE TO BE MOUNTED ON THE POLE.	54
EWP1	LED, EXTERIOR WALL PACK`	LITHONIA	WST LED-P2-27K-VF-MVOLT-NLTAIR2 PIR-DBLXD	1	LED	277	WALL, +8' AFF		25
EWP1EM	LED, EXTERIOR WALL PACK`, EM BATTERY	LITHONIA	WST LED-P2-27K-VF-MVOLT-NLTAIR2 PIR-E20WC-DBLXD	1	LED	277	WALL, +8' AFF		25



FIXTURE TYPE EP1



FIXTURE TYPES EWP1, EWP1 EM

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MECHANICAL SCHEDULE

KEY	EQUIPMENT	LOAD	VOLTS	PH	BRANCH CIRCUIT CONDUCTORS	COND.	DISCONNECT	CIRCUIT BREAKER	CIRCUIT PANEL	CIRCUIT NUMBER	NOTES
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 POOOL MECH ROM	656	120	1	2#12,1#12G	1/2"	THERMAL OL SWITCH	20A/1P, GFCI	LPP	17	
FCU-8	FAN COIL UNIT POOOL 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, 1/3HP	864	120	1	2#12,1#12G	1/2"	THERMAL OL SWITCH	20A/1P	LPP	21	
UH-3	EXISTING RELOCATED UNIT HEATER	864	120	1	2#12,1#12G	1/2"	THERMAL OL SWITCH	20A/1P			RECONNECT TO THE RELOCATED EXITING CIRCUIT.

EQUIPMENT SCHEDULE

KEY	EQUIPMENT	LOAD	VOLTS	PH	BRANCH CIRCUIT CONDUCTORS	COND.	DISCONNECT	CIRCUIT BREAKER	SCHD- NOTES
HAND	HAND DRYER	950	120	1	2#12,1#12G	1/2"	PROVIDED WITH UNIT	20A/1P, GFCI	REFER TO MANUFACTIRERS INSTALLATION INSTRUCITONS PRIOR TO ROUGH-IN FOR ELECTRICAL CONNECTION
IRG	IRRIGATION CONTROLLER	500	120	1	2#12,1#12G	1/2"	NEMA 5-20R, GFCI	20A/1P	COORDINATE WITH IRRIGATION CONTRACTOR PRIOR TO ROUGH-IN.

POOL EQUIPMENT SCHEDULE

KEY	EQUIPMENT	LOAD	VOLTS	PH	CONDUCTORS	COND.	STARTER/DISCONNECT DISCONNECT	STARTER/DISCONNECT STARTER	CIRCUIT BREAKER	CIRCUIT PANEL	CIRCUIT NUMBER	NOTES
1A	LAP POOL CHEMICAL CONTROLLER	1800	120	1	2#12,1#12G	1/2"	--		20A/1P, GFCI	LPP	4	
1F	LAP POOL WATER LEVEL CONTROLLER	120	120	1	2#12,1#12G	1/2"	NEMA 5-20R, GFCI		20A/1P	LPP	31	
2A	REC POOL CHEMICAL CONTROLLER	1800	120	1	2#12,1#12G	1/2"	--		20A/1P, GFCI	LPP	6	
2G	REC POOL WATER LEVEL CONTROLLER	120	120	1	2#12,1#12G	1/2"	NEMA 5-20R, GFCI		20A/1P	LPP	31	
CF1	LAP POOL CHLORINE FEED PUMP	500	120	1	2#12,1#12G	1/2"	NEMA 5-20R, GFCI, SWITCHED			LPP	30	CIRCUIT SHOWN IS FOR THE CONTROL BOX. REFER TO DETAIL 3 SHEET AQ502
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		20A/1P	LPP	28	CIRCUIT SHOWN IS FOR THE CONTROL BOX. REFER TO DETAIL 3 SHEET AQ502
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	1920	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	1920	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	1920	120	1	2#12,1#12G	1/2"	--		20A/1P, GFCI	LPP	13	INTERLOCK WITH FEATURE PUMP
L1	LAP POOL WATER LEVEL CONTROLLER	120	120	1	2#12,1#12G	1/2"	NEMA 5-20R, GFCI		20A/1P	LPP	7	
L2	REC POOL WATER LEVEL CONTROLLER	120	120	1	2#12,1#12G	1/2"	NEMA 5-20R, GFCI		20A/1P	LPP	7	
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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Mountain Recreation Eagle Pool

1700 Bull Pasture Rd, Eagle, CO 81631

NO.	DATE:	TITLE/PURPOSE:
1	03/22/2024	SITE PLAN APPLICATION 02

SCALE:
ISSUE DATE: **3/22/24**
PROJECT #: **23079**
TITLE: **ELECTRICAL SCHEDULES**

SHEET #:
E601

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INTERIOR LUMINAIRE SCHEDULE

KEY	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMP QTY	LAMP TYPE	VOLTS	MOUNTING	NOTES	MAX VA
C1	LED, SQUARE SURFACE MOUNTED, WET LISTED, DOWNLIGHT	DMF LIGHITNG	DRD5S4S109350	1	LED	277	SURFACE	MOUNT IN RECESSED 40 OCTAGONAL JUNCTION BOX	12
C2	LED, VANDEL RESISTANT CORNER MOUNTED FIXTURE	LUMINAIRE LED	VCM8-4FT-NODIM-50W-35K-MVOLT-OP-WHT	1	LED	277	CORNER		50
C2 EM	LED, VANDEL RESISTANT CORNER MOUNTED FIXTURE, EM BATTERY	LUMINAIRE LED	VCM8-4FT-NODIM-50W-35K-MVOLT-OP-WHT-EMB310	1	LED	277	CORNER		50
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-35K-1000LMF-SCT-MIN10-CLL-MVOLT-WHTT	1	LED	277	SURFACE		32
L7 EM	LED, 7' SURFACE LINEAR, EM BATTERY	MARK LIGHTING	S2SD-LSL-7'-MSL7-90CRI-35K-1000LMF-SCT-MIN10-CLL-MVOLT-WHTT-E10WLCP	1	LED	277	SURFACE		56
L12 EM	LED, 12' LINEAR PENDANT, WHITE, EM BATTERY	MARK LIGHTING	S2PD-LCB-12'-MSL6-90CRI-35K-1000LMF-SCT-MIN10-FLL-MVOLT-WHTT-2E10WLCP-ZT-F2-36A-SQCY-WHTCY-WCRD	1	LED	277	PENDANT, BOTTOM OF FIXTURE LEVEL AT 7' AFF	PROVIDE SLOPE CEILING CANOPIES	96
P7	LED, 7' LINEAR PENDANT, WHITE	MARK LIGHTING	S2PD-LCB-7'-MSL7-90CRI-35K-1000LMF-SCT-MIN10-FLL-MVOLT-WHTT-ZT-F2-36A-SQCY-WHTCY-WCRD	1	LED	277	PENDANT, BOTTOM OF FIXTURE LEVEL AT 7' AFF	PROVIDE SLOPE CEILING CANOPIES	56
P7 EM	LED, 7' LINEAR PENDANT, WHITE, EM BATTERY	MARK LIGHTING	S2PD-LCB-7'-MSL7-90CRI-35K-1000LMF-SCT-MIN10-FLL-MVOLT-WHTT-1E10WLCP-ZT-F2-36A-SQCY-WHTCY-WCRD	1	LED	277	PENDANT, BOTTOM OF FIXTURE LEVEL AT 7' AFF	PROVIDE SLOPE CEILING CANOPIES	56
R1	LED, 2X4 RECESSED TROFFER	LITHONIA	ENVX-2X4-HRG-4000LM-90CRI-35K-MIN1-EZT-MVOLT	1	LED	277	RECESSED		33
R1EM	LED, 2X4 RECESSED TROFFER, EM BATTERY	LITHONIA	ENVX-2X4-HRG-4000LM-90CRI-35K-MIN1-EZT-MVOLT-E10WLCP	1	LED	277	RECESSED		33
S1	LED, 4' STRIP	LITHONIA	CSS-L48-4000LM-MVOLT-35K-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 SCONCE	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

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	

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Mountain Recreation Eagle Pool

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NO.	DATE:	TITLE/PURPOSE:
1	03/22/2024	SITE PLAN APPLICATION 02

SCALE:
ISSUE DATE: **3/22/24**
PROJECT #: **23079**
TITLE: **ELECTRICAL LIGHTING SCHEDULES**

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Branch Panel: HPP

Location: POOL MECH. 104
Supply From: MDP
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...					3	70 A	PP5 REC POOOL CIRC PUMP [2]	2
3	PP1 LAP POOL CIRC PUMP [2]	70 A	3			9422...	9422...						4
5								9422...	9422...				6
7				3880...	9422...					3	50 A	PP2 OPEN FLUME SLIDE PUMP [1] [2]	8
9	PP3 CLOSED SLIDE PUMP [1] [2]	30 A	3			3880...	9422...						10
11								3880...	9422...				12
13				5820...	3048...					3	20 A	PP6 SPRAY FEATURE [1] [2]	14
15	PP4 CURRENT CHANNEL PUMP [1] [2]	40 A	3			5820...	3048...						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: TRP2
Mounting: Surface
Enclosure: NEMA 4X

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

A.I.C. Rating: 22KAIC FULY RATED
Mains Type: MCB
Mains Rating: 150A
MCB Rating: 150A/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					1	20 A	REC POOL FLOCCULATION CONTROL PANEL	2
3	UV CONTROL PANEL [1]	20 A	1			576 VA	1800...			1	20 A	LAP POOL CHEMICAL CONTROLLER [1]	4
5	LAP POOL FLOCCULATION CONTROL PANEL	20 A	1					480 VA	1800...	1	20 A	REC POOL CHEMICAL CONTROLLER [1]	6
7	WATER LEVEL CONTROLLERS	20 A	1	240 VA	2568...					1	30 A	REC POOL HEATER [1]	8
9	LAP POOL HEATER [1]	30 A	1			2568...	2568...			1	30 A	REC POOL HEATER [1]	10
11	LAP POOL HEATER [1]	20 A	1					1920...	1920...	1	20 A	REC POOL HEATER [1]	12
13	REC POOL HEATER [1]	20 A	1	1920...	656 VA					1	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			1	20 A	LOCKER ROOM EXHAUST FANS	16
17	FCU-7 FAN COIL UNIT POOL MECH [1]	20 A	1					656 VA	1500...	1	20 A	GAS WATER HEATER GWH-1	18
19	GAS WATER HEATER GWH-2	20 A	1	1500...	720 VA					1	20 A	R-POOL DECK	20
21	WATER HEATER CIRC PUMP PP-1	20 A	1			864 VA	1080...			1	20 A	R-POOL MECH GENERAL	22
23	R-POOL DECK	20 A	1					900 VA	180 VA	1	20 A	R-FAMILY LOCKER	24
25	R-FAMILY CHANGE	20 A	1	180 VA	360 VA					1	20 A	R-HALL, EXTERIOR	26
27	R-FAMILY LOCKER, EXTERIOR	20 A	1			360 VA	180 VA			1	20 A	CF-4 REC POOL CHL CONTROL BOX	28
29	R-FAMILY LOCKER	20 A	1					180 VA	180 VA	1	20 A	CF-1 LAP CHL. CONTROL BOX	30
31	FLOW METER POWER	20 A	1	240 VA	950 VA					1	20 A	FAMILY 106 HAND DRYER [1]	32
33	FAMILY 108 HAND DRYER [1]	20 A	1			950 VA	950 VA			1	20 A	FAMILY 105 HAND DRYER [1]	34
35	FAMILY 107 HAND DRYER [1]	20 A	1					950 VA	500 VA	1	20 A	IRRIGATION CONTROLLER	36
37													38
39													40
41													42
		Total Load:		11314 VA		12084 VA		11166 VA					
		Total Amps:		94 A		101 A		93 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	2176 VA	109.93%	2392 VA		
Power	27928 VA	100.00%	27928 VA	**Total Conn. Load:**	34564 VA
Receptacle	3960 VA	100.00%	3960 VA	**Total Est. Demand:**	34780 VA
Owner Equipment	500 VA	100.00%	500 VA	**Total Conn.:**	96 A
				Total Est. Demand:	97 A

Notes:
[1] PROVIDE GFCI BREAKER.

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Mountain Recreation Eagle Pool

1700 Bull Pasture Rd, Eagle, CO 81631

NO.	DATE:	TITLE/PURPOSE:
1	03/22/2024	SITE PLAN APPLICATION 02

SCALE:
ISSUE DATE: **3/22/24**
PROJECT #: **23079**
TITLE: **ELECTRICAL NEW PANEL SCHEDULES**

SHEET #:
E610

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Switchboard: MDP

Location: ELEC E125
Supply From:
Mounting:
Enclosure:

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

A.I.C. Rating:
Mains Type: MCB
Mains Rating: 1200 A
MCB Rating: 1200 A

Notes:
THIS SCHEDULE INDICATES NEW LOADS AND THE EXISTING PEAK. REFER TO ONE-LINE DIAGRAM FOR COMPLETE DISTRIBUTION

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	HPP	3	400 A	200 A	123044 VA	NEW PANEL
2	TRP2	3	400 A	100 A	34564 VA	NEW PANEL
3	LP1	3	400 A	200 A	2352 VA	EXISTING, NEW LOAD SHOWN
4	TRP1	3	400 A	100 A	1080 VA	EXISTING, NEW LOAD SHOWN
5	EXISTING PEAK	3	0 A	0 A	179600 VA	EXISTING PEAK DEMAND
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
				Total Conn. Load:	340640 VA	
				Total Amps:	410 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Existing Load	179600 VA	125.00%	224500 VA		
Lighting	2352 VA	125.00%	2940 VA	**Total Conn. Load:**	340640 VA
Motor	125220 VA	105.64%	132287 VA	**Total Est. Demand:**	393195 VA
Power	27928 VA	100.00%	27928 VA	**Total Conn.:**	410 A
Receptacle	5040 VA	100.00%	5040 VA	**Total Est. Demand:**	473 A
Owner Equipment	500 VA	100.00%	500 VA		

Notes:

Branch Panel: LP1

Location: ELEC E125
Supply From: MDP
Mounting: Surface
Enclosure: Type 1

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

A.I.C. Rating: 42KAIC SERIES RATED
Mains Type: MLO
Mains Rating: 200A
MCB Rating: --

Notes:
EXISTING PANEL. NEW LOADS ARE BOLD.

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	LIGHTS	20 A	1	0 VA	0 VA					1	20 A	ICE RW FLO LIGHTS	2
3	ALL LK RM SW LIGHTS	20 A	1			0 VA	0 VA			1	20 A	ICE RE FLO LIGHTS	4
5	**L-POOL MECH ROOM LIGHTS [2]**	20 A	1					789 VA	0 VA	1	20 A	HIGHBAY S BLEACH LT	6
7	HALL LIGHTS	20 A	1	0 VA	0 VA					1	20 A	HIGHBAY LIGHTS ROW 9	8
9	**L-CONCESSION, HALL [2]**	20 A	1			132 VA	0 VA			1	20 A	HIGHBAY LIGHTS ROW 8	10
11	SK RNTL & MN/WM SW	20 A	1					0 VA	0 VA	1	20 A	HIGHBAY LIGHTS ROW 7	12
13	HIGHBAY LIGHTS ROW 1	20 A	1	0 VA	0 VA					1	20 A	HIGHBAY LIGHTS ROW 10	14
15	HIGHBAY LIGHTS ROW 2	20 A	1			0 VA	357 VA			1	20 A	**L-BUILDING LIGHTS [2]**	16
17	HIGHBAY LIGHTS ROW 3	20 A	1					0 VA	0 VA	1	20 A	PARKING LOT LIGHS	18
19	HIGHBAY LIGHTS ROW 4	20 A	1	0 VA	0 VA					1	20 A	INGRADE LIGHTS	20
21	HIGHBAY LIGHTS ROW 5	20 A	1			0 VA	270 VA			1	20 A	**L-POOL DECK LIGHTING [2]**	22
23	HIGHBAY LIGHTS ROW 6	20 A	1					0 VA	--	1	--	SPACE	24
25	**L-FAMILY LOCKERS, HALL [1]**	20 A	1	804 VA	--					1	--	SPACE	26
27	SPACE	--	1			--	--			1	--	SPACE	28
29	SPACE	--	1					--	--	1	--	SPACE	30
31	SPACE	--	1	--	--					1	--	SPACE	32
33	SPACE	--	1			--	--			1	--	SPACE	34
35	SPACE	--	1					--	--	1	--	SPACE	36
37	SPACE	--	1	--	--					1	--	SPACE	38
39	SPACE	--	1			--	--			1	--	SPACE	40
41	SPACE	--	1					--	--	1	--	SPACE	42
		Total Load:		804 VA		759 VA		789 VA					
		Total Amps:		3 A		3 A		3 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	2352 VA	125.00%	2940 VA		
				Total Conn. Load:	2352 VA
				Total Est. Demand:	2940 VA
				Total Conn.:	3 A
				Total Est. Demand:	4 A

Notes:
[1] PROVIDE NEW BREAKER IN EXISTING SPACE FOR NEW LIGHTING IN NEW ADDITION.
[2] EXISTING CIRCUIT IN EXISTING REMODELED OR EXPANDED AREAS.

Branch Panel: RP1

Location: ELEC E125
Supply From: TRP1
Mounting: Surface
Enclosure: Type 1

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

A.I.C. Rating: 22KAIC SERIES RATED
Mains Type: MCB
Mains Rating: 200A
MCB Rating: 200A/3P

Notes:
EXISTING PANEL. NEW LOADS ARE BOLD.

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	LIFEGUARD OFFICE REEP	20 A	1	0 VA	0 VA					1	20 A	CONTROL DESK RECEP	2
3	SKT RTL & OFF RECEP	20 A	1			0 VA	0 VA			1	20 A	CONCESSIONS RECP S WL	4
5	REFRIGERATOR	20 A	1					0 VA	0 VA	1	20 A	CONCESSIONS RECP E WL	6
7	VENDING MACHINE	20 A	1	0 VA	0 VA					1	20 A	FAMILY RM RECEP	8
9	VENDING MACHINE	20 A	1			0 VA	0 VA			1	20 A	MN SW & LKR RM REC	10
11	JNTR & MN/WM RECEP	20 A	1					0 VA	0 VA	1	20 A	DRINKING FOUNTAIN	12
13	WM SW & ICE LK REC	20 A	1	0 VA	0 VA					1	20 A	ELECTRICAL ROOM RECEP	14
15	EXISTING	20 A	1			0 VA	--			1	--	SPACE	16
17	ZAMBONI ROOM RECEP	20 A	1					0 VA	0 VA	1	20 A	ICE RINK RECEP	18
19	MEZZ & GARAGE POWER	20 A	1	0 VA	0 VA					1	20 A	ICE RINK RECEP	20
21	SCORE TABLE	20 A	1			0 VA	0 VA			1	20 A	ICE RINK RECEP	22
23	SCORE TABLE	20 A	1					0 VA	0 VA	1	20 A	SKATE SHARPENER	24
25	TRACK LIGHTS	20 A	1	0 VA	0 VA					1	20 A	SCORE TABLE	26
27	TRACK LIGHTS	20 A	1			0 VA	0 VA			1	20 A	PHOTOCELL	28
29	HI/LOW LIGHTING SYS	20 A	1					0 VA	540 VA	1	20 A	**R-CONCESSIONS [1]**	30
31	GARBAGE DISPOSAL	20 A	1	0 VA	540 VA					1	20 A	**R-CONCESSIONS [1]**	32
33	CONCESSION STAND REC	20 A	1			0 VA	0 VA			1	20 A	HEAT TAPE	34
35	CONCESSION STAND REC	20 A	1					0 VA	0 VA	1	20 A	IRRIGATION CLOCK	36
37	COOLING TOWER HEAT	20 A	1	0 VA	0 VA								38
39	COOLING TOWER HEAT	20 A	1			0 VA	0 VA			3	100 A	ICE RINK SUB PANEL	40
41	COOLING TOWER HEAT	20 A	1					0 VA	0 VA				42
		Total Load:		540 VA		0 VA		540 VA					
		Total Amps:		5 A		0 A		5 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	1080 VA	100.00%	1080 VA		
				Total Conn. Load:	1080 VA
				Total Est. Demand:	1080 VA
				Total Conn.:	3 A
				Total Est. Demand:	3 A

Notes:
[1] CIRCUIT MADE SPARE BY DEMO OF EXTERIOR VENDING MACHINE OUTLETS.

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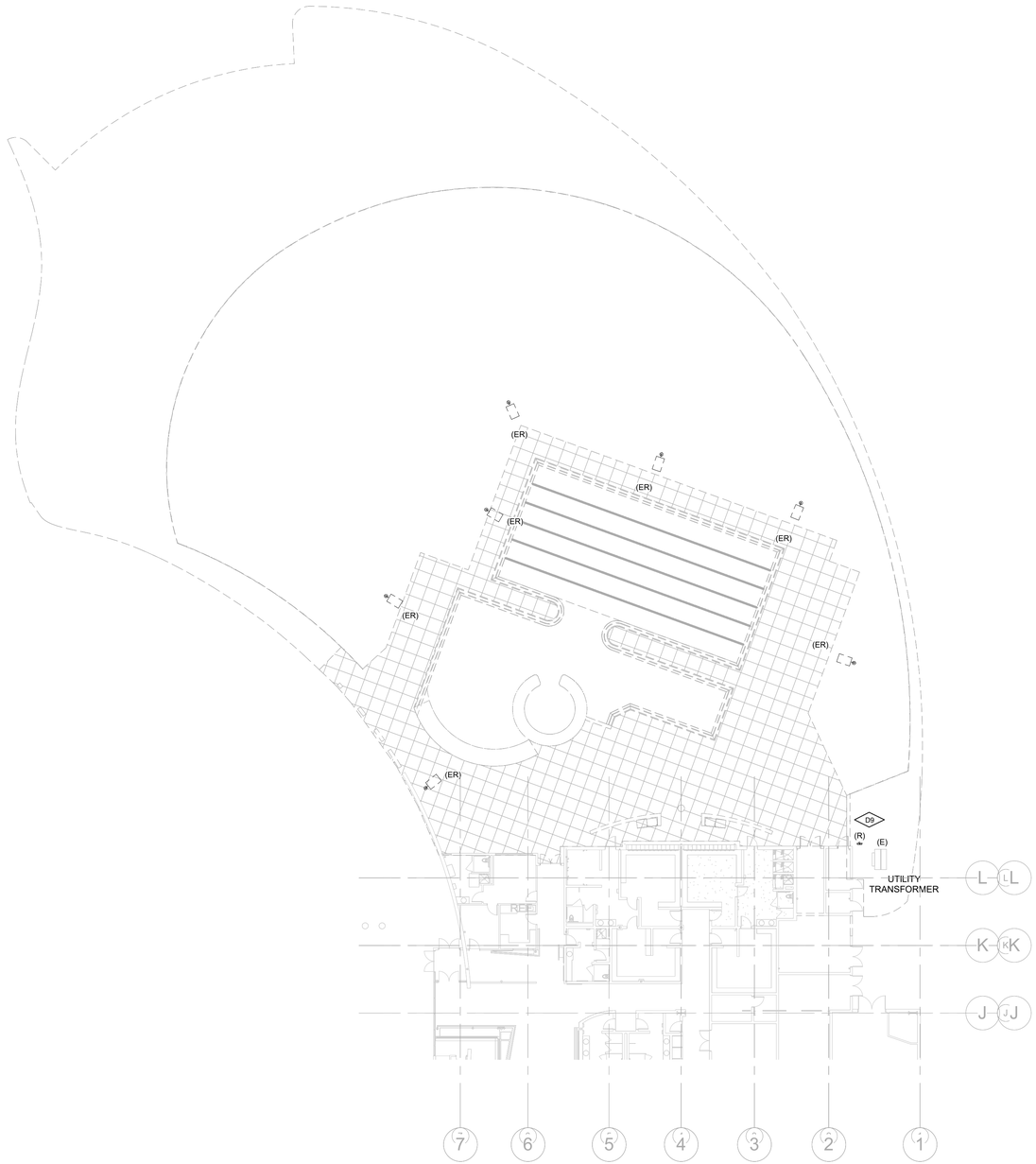
1	03/22/2024	SITE PLAN APPLICATION 02

SCALE:
ISSUE DATE: **3/22/24**
PROJECT #: **23079**
TITLE: **EXISTING PANEL SCHEDULES**

SHEET #:
E611

KEYNOTE LEGEND	
Key Value	Keynote Text
D9	EXISTING UTILITY METER IS MOUNTED TO THE REMOVED FENCE. PROVIDE A TEMPORARY SUPPORTING POST FOR BETWEEN WHEN THE EXISTING FENCE IS REMOVED AND THE NEW WALL THE METER WILL BE MOUNTED TO IS CONSTRUCTED.



1 ELECTRICAL SITE DEMO PLAN
1" = 20'-0"

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SHEET #:
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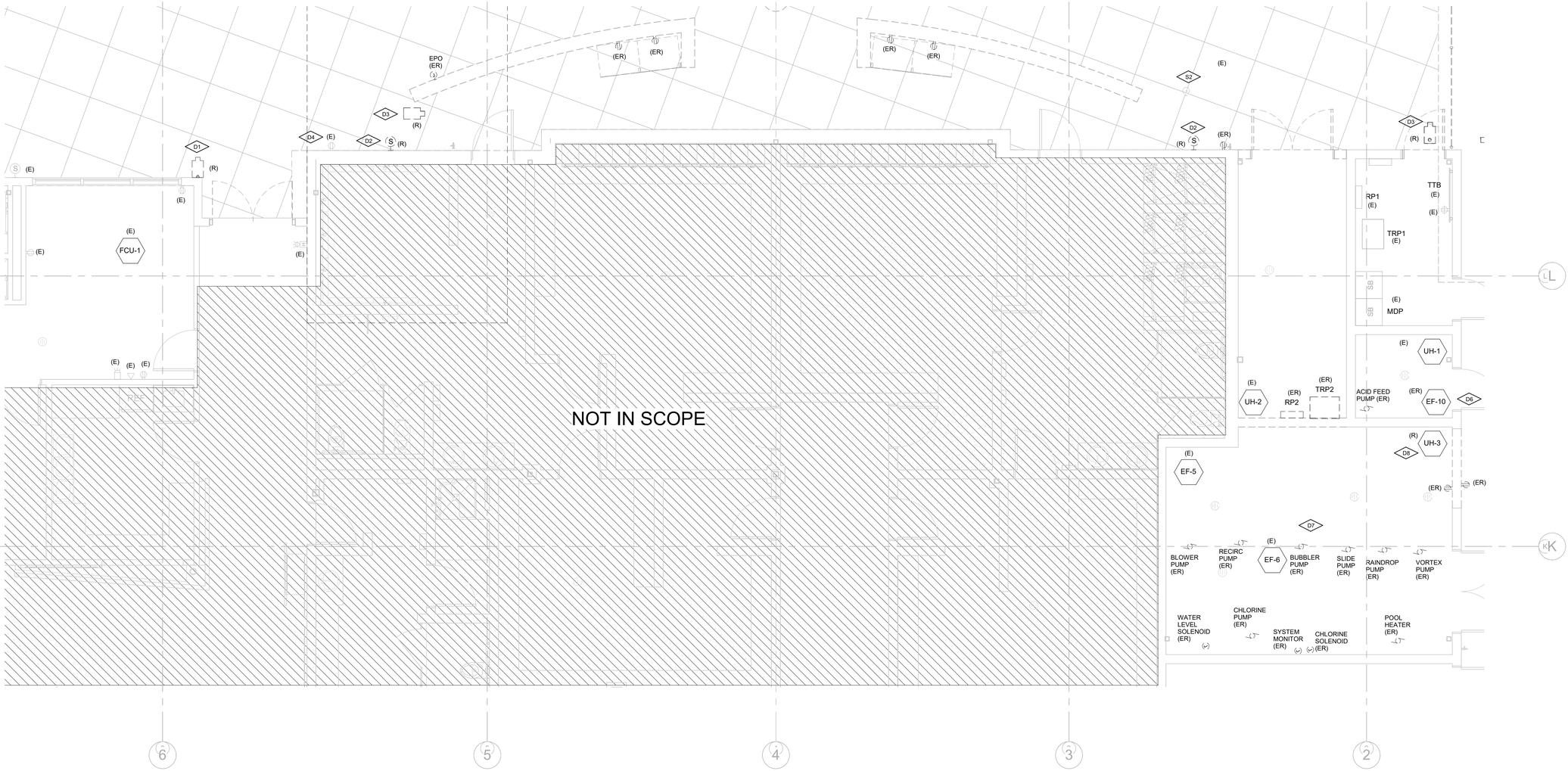
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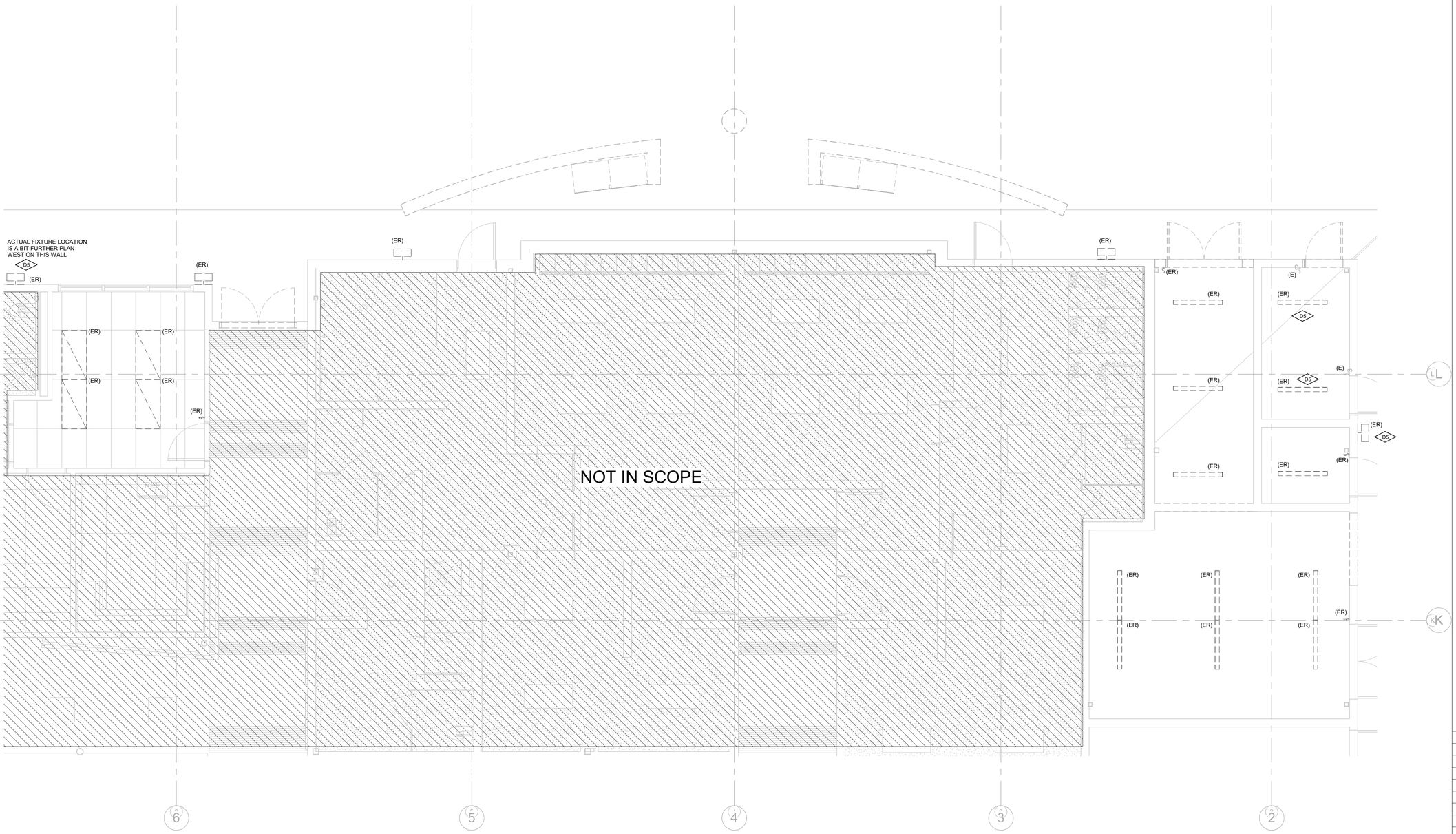

1 DEMO FIRST FLOOR LIGHTING PLAN
1/4" = 1'-0"

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.

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NOT FOR CONSTRUCTION

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Mountain Recreation Eagle Pool

1700 Bull Pasture Rd, Eagle, CO 81631

NO.	DATE:	TITLE/PURPOSE:
1	03/22/2024	SITE PLAN APPLICATION 02

SCALE: **1/4" = 1'-0"**
ISSUE DATE: **3/22/24**
PROJECT #: **23079**
TITLE: **ELECTRICAL DEMO LIGHTING PLAN**

SHEET #:
ED111

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