UPDATE CCC RESTROOM and
RENOVATE CCC RESTROOM into CABIN
Washington State Park
De Soto, Missouri

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core10 ARCHITECTURE

4501 Lindell Blvd, Suite 1a
Saint Louis, Missouri 63108
314.726.4858 CORE10architecture.com

OWNER: STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF STATE PARKS

PROJECT MANAGEMENT: OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

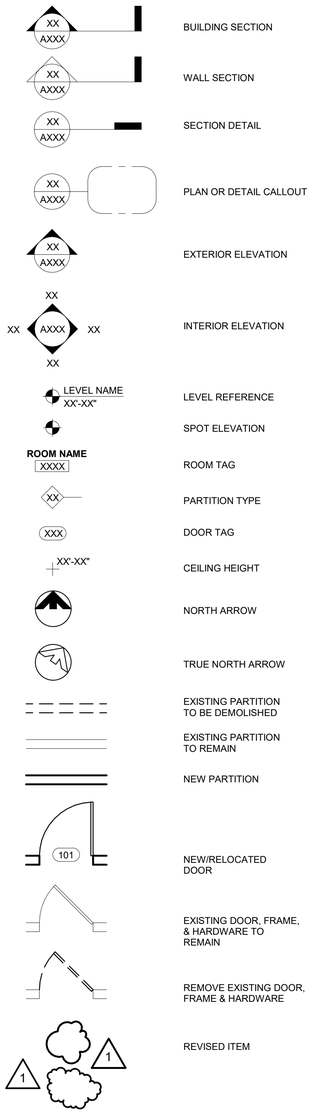
DESIGNER: CORE10 ARCHITECTURE

PROJECT NUMBER: X2337-01

SITE NUMBER: 5221
FACILITY NUMBER:
RESTROOM - DAY USE AREA: #7815221007
RESTROOM - SERVICE AREA: #7815221011

SHEET NUMBER:
G-000

SYMBOLS LEGEND



BUILDING SECTION

WALL SECTION

SECTION DETAIL

PLAN OR DETAIL CALLOUT

EXTERIOR ELEVATION

INTERIOR ELEVATION

LEVEL REFERENCE

SPOT ELEVATION

ROOM TAG

PARTITION TYPE

DOOR TAG

CEILING HEIGHT

NORTH ARROW

TRUE NORTH ARROW

EXISTING PARTITION TO BE DEMOLISHED

EXISTING PARTITION TO REMAIN

NEW PARTITION

NEW/RELOCATED DOOR

EXISTING DOOR, FRAME, & HARDWARE TO REMAIN

REMOVE EXISTING DOOR, FRAME & HARDWARE

REVISED ITEM

ROOM AREA SCHEDULE

ROOM NO.	ROOM NAME	AREA
BUG HOUSE RESTROOM		
101	WOMEN	241 SF
102	MEN	241 SF
THUNDERBIRD CABIN		
101	ENTRY	50 SF
102	BEDROOM	102 SF
103	BATHROOM	41 SF
104	MECH.	13 SF
105	LIVING / DINING	114 SF
106	KITCHEN	41 SF

AREA SCHEDULE (GROSS)

BUILDING NAME	GROSS AREA
BUG HOUSE RESTROOM	782 SF
THUNDERBIRD CABIN	530 SF

AREA SCHEDULE (NET)

CABIN NAME	NET AREA
BUG HOUSE RESTROOM	637 SF
THUNDERBIRD CABIN	412 SF

ALTERNATE SCHEDULE

ALTERNATE #	SHEET #	DESCRIPTION
1	A-101 A-102 A-201 A-202	SYNTHETIC SHAKE SHINGLES AT BOTH THUNDERBIRD AND BUG HOUSE IN LIEU OF ASPHALT SHINGLES BASE BID
2	A-102	STONE SILLS AND COUNTERTOPS IN LIEU OF QUARTZ AS BASE BID
3	SEE CIVIL DRAWINGS	FIELD STONE AT RETAINING WALLS IN LIEU OF MEDIA BLASTED CONCRETE AS BASE BID
4	A-101 A-201	WALL MOUNTED SERVICE EQUIPMENT AT ENTRY TO WOMEN'S RESTROOM AT BUG HOUSE IN LIEU OF AT THE REAR OF THE BUILDING

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ELECTRICAL
E-101 BUG HOUSE/THUNDERBIRD - SCHEDULES/DETAILS
E-102 BUGHOUSE/THUNDERBIRD - FLOOR PLANS



LOCATION MAP
NOT TO SCALE

PROJECT DESCRIPTION

1. RENOVATIONS TO THE RESTROOM NEAR THE VISITOR CENTER SHALL INCLUDE THE DEMOLITION OF THE INTERIOR TO THE BUILDING SHELL AND REMOVING THE INTERIOR CONCRETE SLAB AND ALL EXISTING INTERIOR PLUMBING AND ELECTRIC SYSTEM COMPONENTS. THE NEW RESTROOM LAYOUT SHALL INCLUDE THE RELOCATION OF LAVATORIES TO A NEW INTERIOR WALL IN EACH SPACE. THE ENTRY DOORS SHALL BE RELOCATED TO THE INTERIORS OF EACH RESTROOM AND PROVIDE A SIMPLE AND ORNAMENTAL IRON SECURITY GATE AT EACH ARCHITECTURAL ARCHED ENTRY LOCATION. THE RESTROOM SHALL HAVE A NEW CONCRETE SLAB THROUGHOUT WITH AN EPOXY-SEALED FINISH. A NEW PLUMBING CHASE SHALL BE BUILT ON THE MEN'S RESTROOM SIDE OF THE DEMISING WALL TO CONCEAL THE WATER AND VENT PIPING. AN ON-DEMAND WATER HEATING SYSTEM SHALL BE INCLUDED IN THE LAVATORIES AS A POSSIBLE ALTERNATIVE. NEW ELECTRIC SERVICE SHALL ALSO BE PROVIDED TO THE RESTROOM BUILDING. NEW LED PUCK LIGHTING SHALL BE DESIGNED FOR BOTH RESTROOM SPACES. SITE WORK SHALL INCLUDE A NEW DRIVEWAY FROM THE STATE HIGHWAY AND A PARKING AREA WITH THE REQUIRED ACCESSIBLE PARKING SPACES AND A WALKWAY TO AND FROM THE PARKING LOT TO THE RESTROOM BUILDING.

2. RENOVATIONS TO THE RESTROOM NEAR THE THUNDERBIRD LODGE SHALL INCLUDE THE DEMOLITION OF THE EXTERIOR CONCRETE STAIRS AND WOOD DECK AND DEMOLITION OF THE INTERIOR TO THE BUILDING SHELL, WHICH INCLUDES REMOVAL OF FIXTURES, PARTITIONS, INTERIOR BLOCK WALLS, CONCRETE SLAB, AND ALL EXISTING INTERIOR PLUMBING AND ELECTRIC LINES. NEW ELECTRICAL SERVICE SHALL BE PROVIDED TO THE CABIN INCLUDE RECONFIGURATION OF THE ELECTRICAL SERVICE ENTRANCE. UPHILL SITE WORK WILL BE REQUIRED WORK TO IMPROVE SITE SAFETY AND ELIMINATE HAZARDS. PLUMBING WORK WILL PROVIDE NEW CONCEALED WATER AND VENT PIPING FOR NEW BUILDING USE; CONFIRMATION AND REACTIVATION OF WATER AND SEWER SERVICE LINES; AND ENERGY-EFFICIENT HVAC DESIGN ALTERNATIVES THAT FOLLOW THE STATE BUILDING ENERGY EFFICIENCY DESIGN STANDARDS. OTHER SITE WORK WILL INCLUDE RECONFIGURATION OF THE STAIRS AND PATHWAYS TO THE CABIN, RESPECTING THE HISTORIC ELEMENTS, AND RE-ESTABLISHING THE ORIGINAL ENTRY PROCESSION PER CCC ARCHIVE DRAWINGS.

3. THE HISTORICAL CHARACTER OF THE EXTERIOR OF BOTH RESTROOM BUILDINGS SHALL BE PRESERVED TO THE GREATEST EXTENT POSSIBLE. ROOF WORK ON BOTH BUILDINGS SHALL INCLUDE THE REMOVAL OF THE EXISTING SHINGLES DOWN TO THE ROOF DECK AND A NEW SYNTHETIC SHAKE ROOF WITH ROOF FRAMING AND DECK REPAIRS AS NEEDED. CONSERVATION WORK WILL INCLUDE STONE MASONRY RESTORATION AND CLEANING, EXTERIOR DOOR AND WINDOW REPAIR, AND REPAIR AND PAINTING OF ALL EXTERIOR WOOD SURFACES. OVERALL SITE WORK FOR BOTH BUILDINGS WILL INCLUDE EXTERIOR ACCESS, LIGHTING PROVISIONS, DESIGNATED PARKING, AND ADEQUATE STORMWATER DRAINAGE FROM ALL SIDES OF THE BUILDINGS.

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

STATE OF MISSOURI
ROBERT WILSON WAGSTAFF
NUMBER A-7340
04/29/2024
REGISTERED ARCHITECT

ROBERT WILSON WAGSTAFF - ARCHITECT
MO# A-7340

STATE OF MISSOURI
ARCHITECTURAL CORPORATION
ORIGINAL CERTIFICATE/LICENSE
NO. 00609

PROFESSIONAL SEAL

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Saint Louis, Missouri 63108
314.726.4858 CORE10architecture.com

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSCTRUCTION

DEPARTMENT OF NATURAL RESOURCES DIVISION OF STATE PARKS

PROJECT TITLE
UPDATE CCC RESTROOM AND RENOVATE CCC RESTROOM INTO CABIN

WASHINGTON STATE PARK
13041 STATE HIGHWAY 104
DE SOTO, MISSOURI 63020-7000

PROJECT # X2337-01
SITE # 5221
ASSET #
RESTROOM - DAY USE AREA: 7815221007
RESTROOM - SERVICE AREA: 7815221011

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:

ISSUEDATE: April 29, 2026

CAD DWG FILE:
DRAWN BY: JB
CHECKED BY: RW
DESIGNED BY:

SHEET TITLE:
PROJECT DESCRIPTION

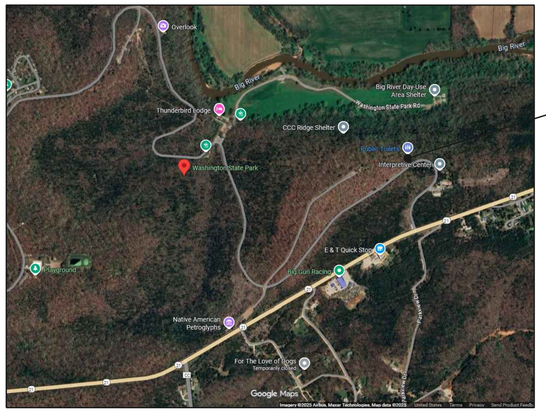
SHEET NUMBER:
G-001

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04/29/26

UTILITY COMPANIES

CONTACT TYPE:	COMPANY NAME:	CONTACT PHONE:	STREET ADDRESS:
SANITARY:	DE SOTO PUBLIC WORKS DEPT.	(636) 586-3326	17 BOYD STREET DE SOTO, MO 63020
ELECTRIC:	AMEREN MISSOURI	(800) 552-7583	101 MADISON ST #100 JEFFERSON CITY, MO 65101
GAS:	SPIRE MISSOURI INC.	(800) 887-4173	700 MARKET ST. ST. LOUIS, MO 63101
WATER:	DE SOTO PUBLIC WORKS DEPT.	(636) 586-3326	17 BOYD STREET DE SOTO, MO 63020

PROJECT LOCATION MAP



ADDRESS:

13041 MO-104
DE SOTO, MO 63020

SITE

NOT TO SCALE

SURVEY INFORMATION

SURVEY PERFORMED BY:

BURDINE AND ASSOCIATES, INC.
1638 JEFFCO BLVD
ARNOLD, MO 63010

SURVEY DATE: 07-30-2025
BASIS OF BEARINGS: MISSOURI EAST ZONE, NAVD 1988

TYPE	NUMBER	ELEVATION	NORTHING	EASTING
TP	4	773.31	769791.22	819461.40
TP	470	783.09	769670.59	819393.58
TP	1	784.88	769644.38	819435.57
TP	141	792.24	769519.68	819325.17

CIVIL ABBREVIATIONS

ASPH	ASPHALT	OHE	OVERHEAD ELECTRIC
ADG	ADJUST TO GRADE	ORD	ORDINANCE
BC	BACK OF CURB	OU	OVERHEAD UTILITY
BIT	BITUMINOUS	PB	PLAT BOOK
BK	BOOK	PC	POINT OF CURVATURE
BM	BENCHMARK	PCA	PORTLAND CONCRETE ASSOCIATION
BOP	BEGINNING OF PROJECT	PCC	PORTLAND CEMENT CONCRETE
BW	BOTTOM OF WALL	PCH	PIPE CULVERT HEADWALLS
CL	CENTERLINE	PG	PAGE
CI	CURB INLET	PI	POINT OF INTERSECTION
CJ	CONSTRUCTION JOINT	PIV	POST INDICATOR VALVE
CMP	CORRUGATED METAL PIPE	PL	PROPERTY LINE
CO	CLEANOUT	PP	POWER POLE
CONC	CONCRETE	PROP	PROPOSED
CPR	COPPER PIPE	PSI	POUNDS PER SQUARE INCH
CS	COMBINED SEWER	PT	POINT OF TANGENT
CT	COOLING TOWER	PVC	POINT OF VERTICAL CURVE, POLYVINYL CHLORIDE PIPE
D	DEGREE OF CURVE		
DI	DUCTILE IRON PIPE	PVI	POINT OF VERTICAL INTERSECTION
DIA	DIAMETER	PVMT	PAVEMENT
DIM	DIMENSION	PVT	POINT OF VERTICAL TANGENT
DND	DO NOT DISTURB	R, RAD	RADIUS
DS	DOWNSPOUT	RCP	REINFORCED CONCRETE PIPE
DW	DOMESTIC WATER	RD	ROADWAY
ELEC	ELECTRIC	ROW	RIGHT OF WAY
ELEV	ELEVATION	RTE	ROUTE
EOP	EDGE OF PAVEMENT	SP	SPACES
EX, EXIST	EXISTING	SPEC	SPECIFICATION
EJ	EXPANSION JOINT	SS, SA	SANITARY SEWER
ET	ELECTRIC TRANSFORMER	ST	STORM SEWER
FF	FINISH FLOOR	STA	STATION
FH	FIRE HYDRANT	STL	STEEL PIPE
FL	FLOW LINE	TBA	TO BE ABANDONED
FO	FIBER OPTIC	TBA&F	TO BE ABANDONED AND FILLED
FP	FIRE PROTECTION	TBR	TO BE REMOVED
FW	FIRE WATER	TBR&R	TO BE REMOVED AND REPLACED
G	NATURAL GAS	TBR&S	TO BE REMOVED AND SALVAGED
GM	GAS METER	TC	TOP OF CURB
GV	GAS VALVE	TELE	TELEPHONE
HORIZ	HORIZONTAL	TI	TOP OF INLET
ID	INSIDE DIAMETER	TW	TOP OF WALL
INV	INVERT	TYP	TYPICAL
L	LENGTH OF CURVE	UG	UNDERGROUND
MAX	MAXIMUM	UGE	UNDERGROUND ELECTRIC
MEP	MECHANICAL/ELECTRICAL/PLUMBING	UGT	UNDERGROUND TELEPHONE
MH	MANHOLE	UIP	USE IN PLACE
MIN	MINIMUM	VAC	VACATED
MISC	MISCELLANEOUS	VCP	VITRIFIED CLAY PIPE
MON	MONUMENT	VERT	VERTICAL
N	NORTH	W	WATER
NIC	NOT IN CONTRACT	W/	WITH
NO	NUMBER	WM	WATER METER
NTS	NOT TO SCALE	WV	WATER VALVE
OC	ON CENTER	WWF	WELDED WIRE FABRIC
OD	OUTSIDE DIAMETER	UNO	UNLESS NOTED OTHERWISE
OH	OVERHEAD		

CIVIL LEGEND

EXISTING:	
●	IRON PIPE/PIN FOUND
⊙	IRON PIN SET
⌖	CUT CROSS FOUND
○	SET IRON PIN WITH CAP (UNLESS NOTED)
"R"	RECORD DISTANCE
"M"	MEASURED DISTANCE
"D"	DEED DISTANCE
☼	EXISTING LIGHT POLE
⊟	EXISTING POWER POLE
›	EXISTING GUY WIRE
EM	EXISTING ELECTRIC METER
♂	EXISTING FIRE HYDRANT
WV	EXISTING WATER VALVE
WM	EXISTING WATER METER
GV	EXISTING GAS VALVE
GM	EXISTING GAS METER
CO	EXISTING CLEANOUT
◎	EXISTING MANHOLE
BOL	EXISTING BOLLARD
⊸	EXISTING SINGLE POLE SIGN
⊸⊸	EXISTING DOUBLE POLE SIGN
T	EXISTING TELEPHONE JUNCTION BOX
P	EXISTING POWER JUNCTION BOX
AC	EXISTING AIR CONDITIONER UNIT
▨	EXISTING GRATE INLET
◔	EXISTING BORING
○	EXISTING COLUMN
— X — X —	EXISTING FENCE
— G —	EXISTING GAS LINE
— OE —	EXISTING OVERHEAD ELECTRIC LINE
— W —	EXISTING WATER
— CS —	EXISTING COMBINED SEWER
— E —	EXISTING ELECTRIC

PROPOSED	
— — —	PROPERTY LINE
— O — O —	SILTATION FENCE
— ST —	STORM SEWER
— DS —	DOWNSPOUT COLLECTION
— DT —	DRAINTILE COLLECTION
— SS —	SANITARY SEWER
— W —	DOMESTIC WATER
— FW —	FIRE SERVICE WATER
— OHE — OHE —	OVERHEAD ELECTRIC
— UE — UE —	UNDERGROUND ELECTRIC
— UT — UT —	UNDERGROUND TELEPHONE
— UC — UC —	UNDERGROUND CABLE
— FO —	UNDERGROUND FIBEROPTIC
— CWR —	CHILLED WATER RETURN
— CWS —	CHILLED WATER SUPPLY
— G —	NATURAL GAS
— X — X —	FENCE

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C-201	SITE PLAN THUNDERBIRD
C-202	SITE PLAN BUGHOUSE
C-203	GRADING PLAN BUGHOUSE
C-301	DETAILS
C-302	DETAILS

STATE OF MISSOURI
MIKE KEHOE
GOVERNOR

STATE OF MISSOURI
MATTHEW J. WEBER
NUMBER PE-2016017692
04-29-26
PROFESSIONAL ENGINEER

PROFESSIONAL SEAL

5220 Oakland Ave.
St. Louis, MO 63110
314.863.5570

CIVIL DESIGN, INC.
WBE / DBE
Missouri State Certificate of Authority #2002006804

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF NATURAL RESOURCES DIVISION OF STATE PARKS

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UPDATE CCC RESTROOM AND RENOVATE CCC RESTROOM INTO CABIN

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PROJECT # X2337-01
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REVISION:
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DATE:
ISSUEDATE: April 29, 2026

CAD DWG FILE:
DRAWN BY: AT
CHECKED BY: MW
DESIGNED BY:

SHEET TITLE:

GENERAL INFORMATION

SHEET NUMBER:

C-001

3 OF 36 SHEETS
04/29/26

GENERAL NOTES:

1. EXISTING TOPOGRAPHIC CONDITIONS, CONTOURS, AND ELEVATIONS ARE BASED UPON A TOPOGRAPHIC SURVEY PERFORMED BY BURDINE AND ASSOCIATES, ON JULY 30TH, 2025. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER IN WRITING IF EXISTING CONDITIONS DIFFER FROM THAT SHOWN ON PLANS.
2. THE CONTRACTOR BIDDING THE PROJECT IS RESPONSIBLE FOR VISITING AND INSPECTING THE PROJECT SITE PRIOR TO SUBMITTING A BID.
3. ALL CONSTRUCTION ACTIVITIES SHALL BE IN STRICT COMPLIANCE WITH ALL LOCAL, CITY, STATE AND FEDERAL ORDINANCES, WHICHEVER CONTROLS. ALL CONSTRUCTION ACTIVITIES SHALL FOLLOW OSHA REGULATIONS.
4. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL MEASURE AND VERIFY ALL FIGURES AND ELEVATIONS BEFORE PROCEEDING WITH THE WORK. IF ANY INFORMATION IN THE FIELD DIFFERS FROM INFORMATION SHOWN ON THE DRAWINGS OR SPECIFICATIONS, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY. IF DISCREPANCIES ARE OBSERVED AND NOT REPORTED, THE OWNER AND DESIGN TEAM WILL NOT BE RESPONSIBLE FOR THAT PORTION OF THE WORK, AND ANY POSSIBLE RESULTING ERRORS.
5. UNLESS SPECIFICALLY SHOWN ON THE PROJECT DOCUMENTS, THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND DESIGNATING AREAS OF STAGING, CONTRACTOR PARKING, MATERIALS STORAGE, EARTHWORK SPOILS, ETC. WITH THE OWNER'S REPRESENTATIVE WITHIN THE LIMITS OF THE PROJECT SITE.
6. EXISTING VEHICULAR AND PEDESTRIAN TRAFFIC SURROUNDING THE SITE MUST BE MAINTAINED IN A SAFE MANNER. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY SAFETY MEASURES IN ORDER TO PROVIDE PEDESTRIAN AND VEHICULAR SAFETY AT ALL AREAS SURROUNDING THE SITE FROM ALL PROJECT WORK. MEASURES SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE AND SHALL BE PUT IN PLACE PRIOR TO THE COMMENCEMENT OF DEMOLITION. THE CONTRACTOR IS RESPONSIBLE FOR ANY TEMPORARY TRAFFIC CONTROL AS NEEDED ON THE PROJECT.
7. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING BENCHMARKS AND RELOCATING BENCHMARKS IF NECESSARY. BENCHMARKS SHALL BE RELOCATED TO ORIGINAL ELEVATION. ALL BENCHMARKS SHALL BE RELOCATED OR REPLACED BY AN MISSOURI LICENSED SURVEYOR.
8. CONTRACTOR IS RESPONSIBLE FOR REPAIRS TO ANY EXISTING CONDITIONS (ON OR OFF SITE) THAT IS DAMAGED DURING CONSTRUCTION SUCH AS, BUT NOT LIMITED TO, DRAINAGE PATTERNS, UTILITIES, LIGHTING, PAVEMENT, SIDEWALKS, CURBS, ETC. REPAIRS SHALL BE PROVIDED TO THE SATISFACTION OF THE OWNER.
9. CONTRACTOR SHALL MINIMIZE DISTURBANCE OF ANY EXISTING LANDSCAPING THROUGHOUT THE DURATION OF THE PROJECT.
10. ALL GROUND SURFACES DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO ITS ORIGINAL CONDITION.
11. CONTRACTOR SHALL PROVIDE TEMPORARY COVERS FOR ANY EXCAVATIONS LEFT UNATTENDED FOR ANY PERIOD OF TIME.
12. SITE UTILITIES SHALL BE MAINTAINED AND OPERABLE AT ALL TIMES. CONTRACTOR SHALL PROVIDE TEMPORARY BY-PASS PUMPING AS NEEDED TO MAINTAIN OPERATION AND OCCUPANCY OF THE SITE.

GRADING NOTES:

1. NO SLOPES SHALL EXCEED 3H:1V.
2. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS DURING COMPACTION OF BACKFILL MATERIALS OVER THE TOP OF STRUCTURES OR PIPES IN ORDER TO PREVENT ANY DAMAGE TO BELOW GRADE STRUCTURES.
3. CLEARING TECHNIQUES THAT RETAIN VEGETATION TO THE MAXIMUM EXTENT PRACTICAL SHALL BE USED, AND THE TIME PERIOD FOR DISTURBED AREAS TO BE WITHOUT VEGETATIVE COVER SHALL BE MINIMIZED TO THE EXTENT PRACTICAL.
4. WHEN ANY GRADING OCCURS PRIOR TO FINAL GRADING, THE SITE SHALL AT ALL TIMES BE MAINTAINED SUCH THAT ALL STORM WATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
5. ALL EXCESS EARTHWORK MATERIALS SHALL BE HAULED OFF-SITE AND DISPOSED OF IN A LEGAL MANNER.
6. ALL EXCAVATED AREAS ARE TO BE SEEDED AND/OR SODDED AFTER FINISH GRADING UNLESS OTHERWISE NOTED. HOLD DOWN FINAL GRADE AT ALL AREAS TO BE SODDED/SEEDED IN ORDER TO ACCEPT A MINIMUM OF 4 INCH TOPSOIL. HOLD SOODED/SEEDED AREA FINAL GRADE DOWN 1 INCH BELOW TOP OF PAVEMENT ELEVATION.
7. THE EXCAVATING CONTRACTOR MUST TAKE PARTICULAR CARE WHEN EXCAVATING IN AND AROUND EXISTING UTILITY LINES AND EQUIPMENT. VERIFY COVER & SEPARATION REQUIREMENTS BY UTILITY CONTRACTORS AND/OR UTILITY COMPANIES SO AS NOT TO CAUSE DAMAGE.
8. ALL GRADES AT PROJECT LIMITS SHALL MEET EXISTING GRADES.
9. CONTRACTOR TO ENSURE POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS. FINISH GRADE OF SOD/SEED SHALL NOT CREATE A BARRIER FOR DRAINAGE AWAY FROM ANY STRUCTURE.
10. EXCESS TOPSOIL FROM STRIPPING OPERATIONS, AS WELL AS OTHER PROPOSED FILL MATERIALS, SHALL BE STOCKPILED OUTSIDE OF THE PROPOSED WORK AREA, AND PLACED IN MOUNDS WITH PLASTIC COVERINGS. FASTEN PLASTIC COVERINGS SECURELY SO AS NOT TO ALLOW FOR DISPLACEMENT DURING STRONG WINDS.
11. PROVIDE POSITIVE DRAINAGE IN ALL AREAS WITHOUT PONDING. AFTER INSTALLATION, CONTRACTOR TO TEST FOR, AND CORRECT, ANY LOW SPOTS HOLDING WATER IN PAVEMENTS, WALKS, SEED/SOD AREAS.

UTILITY NOTES:

1. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THAT THERE MAY BE OTHER, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION BEFORE EXCAVATION OF TRENCHING TO AVOID DAMAGE THERETO.
2. LOCATE EXISTING UNDERGROUND UTILITIES AND SEWERS IN AREAS OF WORK PRIOR TO STARTING OPERATIONS. WHEN UTILITIES ARE TO REMAIN IN PLACE, PROVIDE ADEQUATE MEANS OF PROTECTION DURING OPERATIONS. SHOULD UNKNOWN UTILITIES BE ENCOUNTERED DURING EXCAVATION, CONTRACTOR SHALL NOTIFY UTILITY OWNER IMMEDIATELY FOR FURTHER DIRECTION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL NECESSARY WORK AND INSPECTIONS WITH MISSOURI OFFICE OF ADMINISTRATION, AND/OR ALL OTHER UTILITY COMPANIES INVOLVED WITH THIS PROJECT. THE CONTRACTOR SHALL ALSO PAY ANY FEES ASSOCIATED WITH PERMITS, INSPECTIONS AND ANY OTHER CONSTRUCTION RELATED ACTIVITIES.
3. ANY UTILITIES SCHEDULE TO REMAIN THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED OR REPAIRED TO THE SATISFACTION OF THE OWNER.
4. MANHOLES, CATCH BASINS, CLEANOUTS, VALVE BOXES, FRAMES, COVERS AND GRATES REMAINING IN USE SHALL BE PROTECTED AND ADJUSTED TO FINAL GRADES.
5. MINIMUM SEPARATION OF NEW AND/OR EXISTING WATER AND/OR SANITARY AND STORM SEWERS SHALL BE 10 FEET HORIZONTAL FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE AND 18 INCHES VERTICAL FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE, NO EXCEPTIONS. CONTRACTOR SHALL EXCAVATE AND VERIFY ALL POTENTIAL UTILITY CROSSING SEPARATIONS PRIOR TO THE START OF PLACING ANY UTILITIES.
6. THE CONTRACTOR SHALL COMPLETE ALL UTILITY WORK TO THE APPROPRIATE STANDARDS OF EACH RESPECTIVE UTILITY COMPANY.
7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE WIDTH OF EACH UTILITY LINE EXCAVATION. CONTRACTOR SHALL ADJUST SIZE OF TRENCH EXCAVATIONS AS REQUIRED ON A CASE BY CASE BASIS TO PROPERLY CONSTRUCT UTILITY SERVICES. CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING EXCAVATIONS AS REQUIRED ACCORDING TO ALL FEDERAL, STATE, LOCAL, AND OSHA REGULATIONS.

EROSION AND SEDIMENT CONTROL NOTES:

1. CONTRACTOR TO PROVIDE TEMPORARY SEEDING OVER ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WHICH ARE LEFT INACTIVE FOR 14 DAYS. TEMPORARY SEEDING SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
2. ALL EROSION CONTROL AND SEDIMENTATION CONTROL MEASURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL, INSPECT AND MAINTAIN. THE MAINTENANCE OF THESE EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CONSIDERED INCIDENTAL TO THE DEVICES THEMSELVES. MAINTENANCE SHALL CONTINUE TO BE THE RESPONSIBILITY OF THE CONTRACTOR UNTIL THE OWNER TAKES OWNERSHIP OF THE IMPROVEMENTS.
3. ALL EROSION CONTROL SHALL CONFORM TO THE CONSTRUCTION SPECIFICATIONS.
4. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO BEGINNING CONSTRUCTION.
5. A WASHDOWN AREA FOR VEHICLES SHALL BE PROVIDED TO REDUCE THE RISK OF VEHICLES TRACKING SEDIMENT AND DEBRIS.
6. PAVED AREAS WITHIN THE PROPERTY LIMITS AND STREETS ADJACENT TO THE CONSTRUCTION SITE SHALL BE CLEANED DAILY OR MORE FREQUENTLY AS NECESSARY. CLEANING SHALL INCLUDE SCRAPING SIGNIFICANT AMOUNTS OF SOIL AND POWER SWEEPING AS NEEDED TO REMOVE ANY EXCESS MUD, DIRT, OR ROCK TRACKED FROM THE CONSTRUCTION AREA. SEDIMENT SHALL NOT BE ALLOWED TO LEAVE THE SITE AND BE DEPOSITED ON THE STREETS.
7. ALL INLETS STRUCTURES RECEIVING DRAINAGE FROM THE PROPOSED DISTURBED AREAS SHALL BE PROTECTED WITH SEDIMENT CONTROL MEASURES TO PREVENT SEDIMENT FROM ENTERING THE STORM SYSTEM AND DISCHARGING TO EXISTING BMP FACILITIES. SEDIMENT CONTROL MEASURES SHALL REMAIN UNTIL THE DISTURBED DRAINAGE AREAS HAVE BEEN PROPERLY STABILIZED.
8. EROSION CONTROL MEASURES SHALL BE INSPECTED AND NECESSARY CORRECTIONS SHALL BE MADE WITHIN 24 HOURS OF ANY RAINSTORM RESULTING IN ONE-HALF INCH OF RAIN OR MORE.

DEMOLITION NOTES:

1. THE CONTRACTOR SHALL COORDINATE WORK ASSOCIATED WITH THE REMOVAL, RELOCATION, OR ABANDONMENT OF UTILITIES WITH THE UTILITY COMPANY OR ENTITY HAVING OWNERSHIP OF EACH RESPECTIVE UTILITY. COSTS FOR DISCONNECTION, REMOVAL, AND/OR RELOCATION OF EXISTING UTILITIES AS SHOWN ON THE DRAWINGS OR AS NECESSARY TO ALLOW FOR EXECUTION OF THE WORK SHALL BE PAID FOR BY THE CONTRACTOR.
2. AREAS SURROUNDING THIS SITE MAY CONTAIN BOTH PEDESTRIAN AND VEHICLE TRAFFIC. ALL NECESSARY CARE SHALL BE TAKEN BY THE CONTRACTOR TO ENSURE THE SAFETY OF THE GENERAL PUBLIC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING AND MAINTAINING SAFE AND EFFICIENT PROJECT LIMITS. THE CONTRACTOR SHALL FOLLOW ALL FEDERAL, STATE AND LOCAL GUIDELINES WITH REGARDS TO CONSTRUCTION SAFETY THROUGHOUT THE ENTIRE DURATION OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY BREACHES OF SAFETY OR DESTRUCTION OF PROPERTY RELATED TO THE CONSTRUCTION OF THIS PROJECT.
3. ALL DEMOLITION DEBRIS SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF ACCORDING TO ALL FEDERAL, STATE AND LOCAL REGULATIONS. NO DEBRIS SHALL BE BURIED ON SITE.
4. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS NOT TO DAMAGE ANY EXISTING SITE FEATURES TO REMAIN. IF ANY DAMAGE OCCURS, THE CONTRACTOR SHALL CONTACT THE OWNERS REPRESENTATIVE IMMEDIATELY. THE CONTRACTOR SHALL REPAIR ALL DAMAGED ITEMS TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE SITE CONSTRUCTION FENCE IN THE LOCATIONS SHOWN. DAMAGE TO THE CONSTRUCTION FENCE SHALL BE REPAIRED IMMEDIATELY. SITE VANDALISM SHALL BE REPORTED IMMEDIATELY.
6. REMOVAL AND/OR ABANDONMENT OF EXISTING SEWERS SHALL BE IN ACCORDANCE WITH THE STANDARD CONSTRUCTION SPECIFICATIONS FOR SEWER AND DRAINAGE FACILITIES OF THE CITY OF FULTON SEWER DISTRICT, 2000 EDITION.
7. THE CONTRACTOR SHALL ERECT ORANGE PLASTIC CONSTRUCTION FENCING AS SHOWN AROUND THE PROJECT SITE FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE FOR EXACT LOCATIONS OF CONSTRUCTION FENCING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONSTRUCTION FENCING AND FIXING ANY DAMAGE ON A DAILY BASIS. THE CONTRACTOR SHALL ALSO PROVIDE SAFE PEDESTRIAN WALKWAYS ACCORDING TO ALL COUNTY, STATE, FEDERAL OR OTHER APPLICABLE STANDARDS. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE PROJECT SITE THROUGHOUT THE SCHEDULE OF THE PROJECT. THE OWNER WILL NOT BE HELD RESPONSIBLE FOR ANY THEFTS OR VANDALISM THAT MAY OCCUR.
8. THE OWNER HAS FIRST SALVAGE RIGHTS ON ALL ITEMS REMOVED. CONTRACTOR IS RESPONSIBLE FOR COMMUNICATIONS WITH THE OWNER'S REPRESENTATIVE IN ORDER TO VERIFY AND CONFIRM ALL SALVAGE ITEMS. IF OWNER FORFEITS RIGHTS THEN ALL DEMOLISHED MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE LEGALLY DISPOSED OF OFF-SITE.
9. ALL ITEMS TO BE SALVAGED SHALL BE CAREFULLY REMOVED AND STOCKPILED. THE CONTRACTOR SHALL TAKE SPECIAL CARE IN THE STORAGE OF THESE ITEMS FOR REUSE. THE CONTRACTOR SHALL PLACE/REINSTALL STOCKPILED ITEMS IN LOCATIONS DESIGNATED BY THE OWNERS REPRESENTATIVE.
10. ANY RIGHT-OF-WAY OR PROPERTY MONUMENTS REMOVED OR DAMAGED SHALL BE RESTORED BY CONTRACTOR.
11. BACKFILL ALL EXCAVATIONS RESULTING FROM THE DEMOLITION WORK TO MEET THE REQUIREMENTS FOR THE PROPOSED USE. FOR ALL UTILITY LINES AND STRUCTURES DESIGNATED TO BE REMOVED, PLACE AND COMPACT BACKFILL WITHIN TRENCH PER THE DESIGNATED UTILITY COMPANY STANDARDS.
12. EROSION CONTROL SHALL BE INSTALLED AND IN PLACE PRIOR TO ANY SOIL DISTURBANCE, INCLUDING PAVEMENT REMOVAL. SEE EROSION CONTROL NOTES FOR FURTHER INFORMATION.
13. ALL EXISTING SURFACE EXPOSED UTILITIES: MANHOLES, INLETS, CLEANOUTS, VALVE BOXES, ETC, REMAINING IN USE SHALL BE PROTECTED AND ADJUSTED TO FINAL GRADES.
14. ANY EXISTING BELOW GRADE DEBRIS OR OBSTACLES ENCOUNTERED WITHIN THE PROPOSED PROJECT SCOPE LIMITS, BUT NOT SPECIFICALLY CALLED OUT ON THE PLANS, SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE FOR FURTHER DIRECTION.

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MIKE KEHOE
GOVERNOR

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DEPARTMENT OF NATURAL RESOURCES DIVISION OF STATE PARKS

PROJECT TITLE
UPDATE CCC RESTROOM AND RENOVATE CCC RESTROOM INTO CABIN

WASHINGTON STATE PARK
13041 STATE HIGHWAY 104
DE SOTO, MO 63020-7000

PROJECT # X2337-01
SITE # 5221
ASSET #
RESTROOM - DAY USE AREA #7815221007
RESTROOM - SERVICE AREA #7815221011

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUEDATE: April 29, 2026

CAD DWG FILE:
DRAWN BY: AT
CHECKED BY: MW
DESIGNED BY:

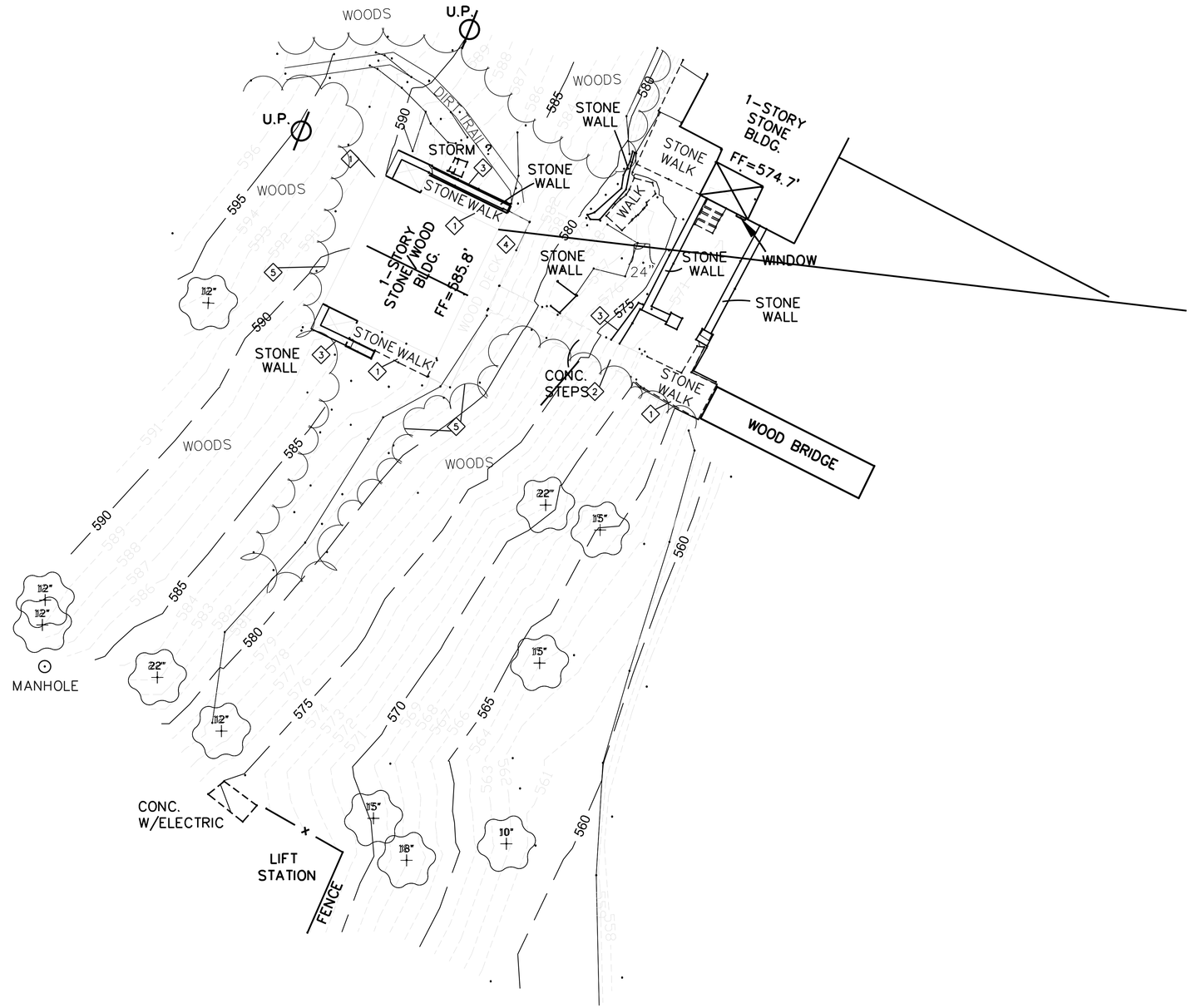
SHEET TITLE:

GENERAL INFORMATION

SHEET NUMBER:

C-002

4 OF 36 SHEETS
04/29/26



LEGEND:

— — 500 — — EXISTING CONTOUR

KEYED NOTES:

1. EXISTING STONE WALK TO REMAIN IN PLACE.
2. REMOVE EXISTING CONCRETE STAIRS.
3. EXISTING STONE WALL TO REMAIN IN PLACE.
4. REMOVE EXISTING WOOD DECK.
5. CLEAR VEGETATION AS NECESSARY FOR PROPOSED IMPROVEMENTS. COORDINATE TREE REMOVAL WITH OWNER.

DRAWING NOTE

1. ALL UNMARKED IMPROVEMENTS ARE TO REMAIN IN PLACE AND KEPT FREE FROM DAMAGE.
2. CONTRACTOR TO COORDINATE WITH OWNER TO PROVIDE MEANS AND METHODS TO ACCESS SITE.

GRAPHIC SCALE

10 0 5 10 20 40

(IN FEET)
1 INCH = 10 FT.

N

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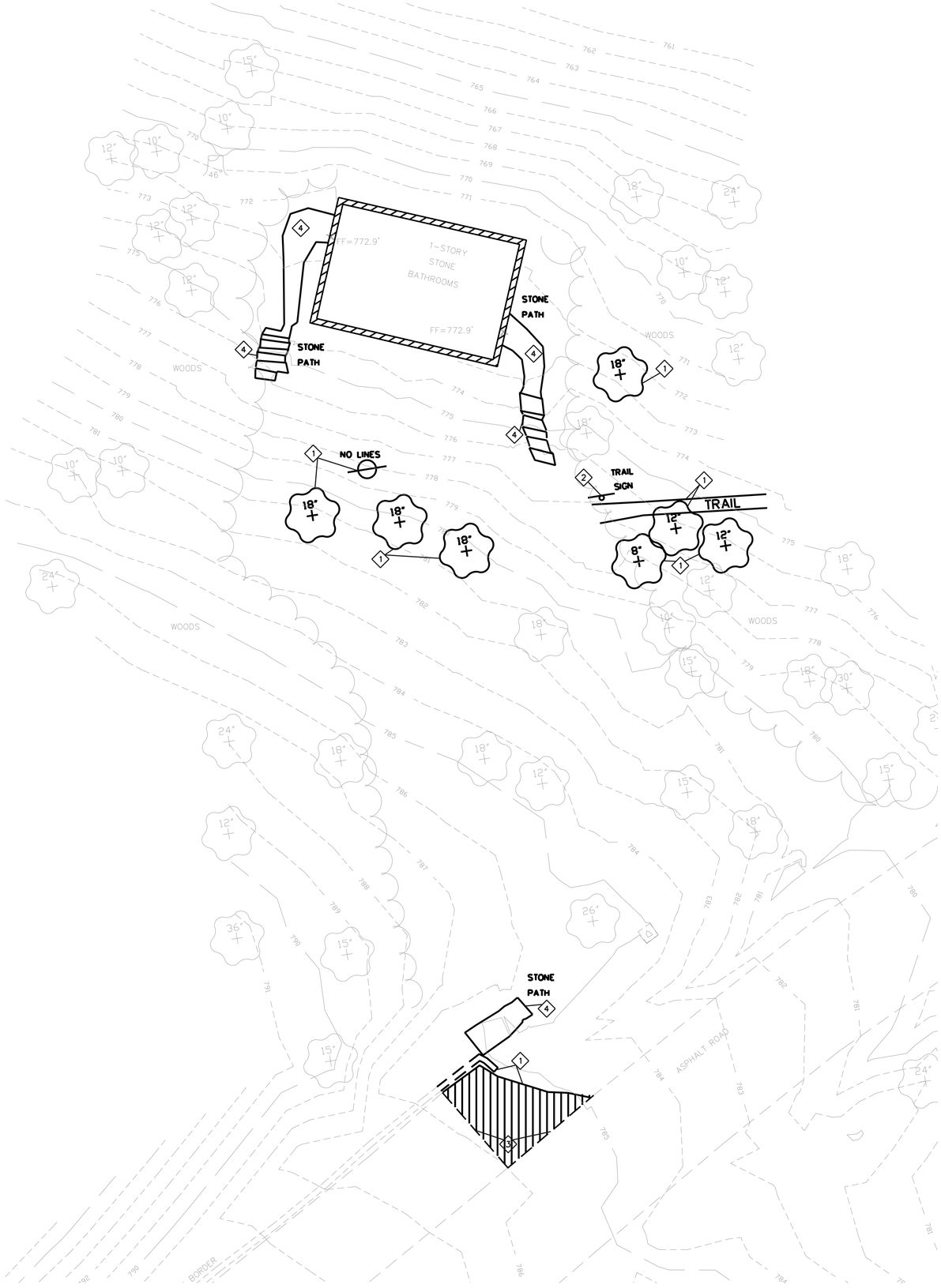
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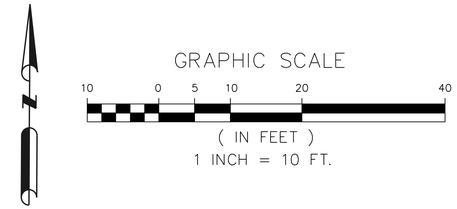
DEMO PLAN
THUNDERBIRD

SHEET NUMBER:

C-101

5 OF 36 SHEETS
04/29/26





KEYED NOTES:

1. TO BE REMOVED
2. REMOVE AND RELOCATE. COORDINATE WITH OWNER FOR RELOCATION.
3. SAWCUT ASPHALT PAVEMENT
4. STONE STEPS TO BE REMOVED. COORDINATE WITH OWNER FOR STORAGE.

LEGEND:

ASPHALT PAVEMENT FOR REMOVAL

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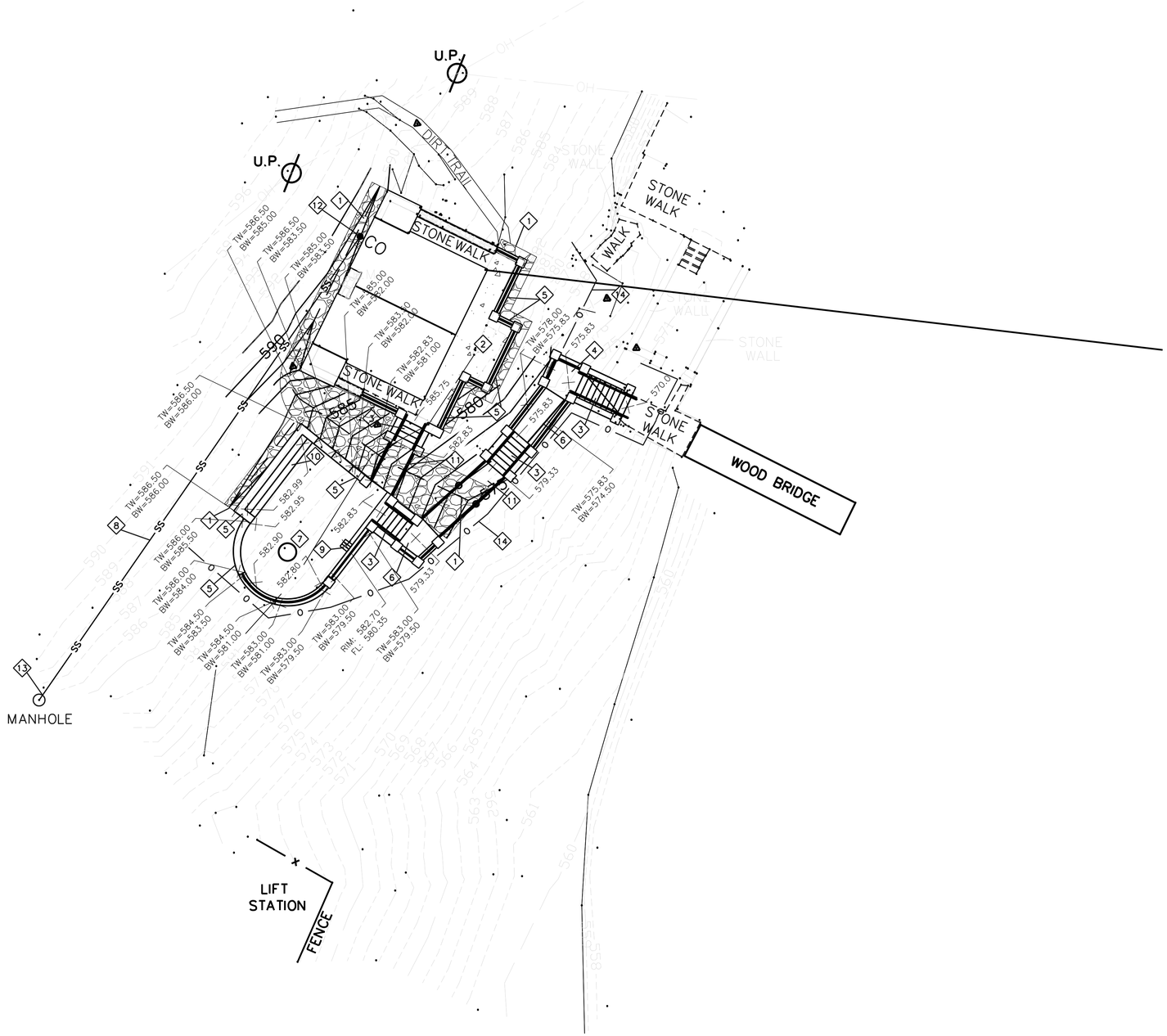
SHEET TITLE:

DEMO PLAN
BUGHOUSE

SHEET NUMBER:

C-102

6 OF 36 SHEETS
04/29/26



LEGEND:

- PROPOSED RIP RAP LINING
- 500 — PROPOSED CONTOUR
- 500 — EXISTING CONTOUR
- SS — SANITARY SEWER

KEYED NOTES:

1. RIP RAP LINED SWALE
2. CONCRETE FRONT PATIO. (SEE DETAIL C-301/C). TOP OF WALL ELEVATION AROUND ENTIRE FRONT PATIO = 585.75
3. REINFORCED CONCRETE STAIR – 12-INCH THREAD; 7-INCH RISER
4. CONCRETE LANDING
5. REINFORCED CONCRETE RETAINING WALL. REFER TO ARCHITECTURE AND STRUCTURAL PLANS FOR DETAILS.
6. CONCRETE WALKWAY. (SEE DETAIL C-301/C). REFER TO ARCHITECT AND STRUCTURAL PLANS FOR WALL DETAILS.
7. DETACHED PATIO AREA. (SEE DETAIL C-301/C)
8. 4-INCH SANITARY LATERAL MIN. 1% SLOPE TO EXISTING MANHOLE. COORDINATE WITH MEP FOR CONTINUATION UNDER BUILDING.
9. NYLOPLAST AREA INLET. RIM ELEV. = 582.35. FL OUT ELEV = 580.35
10. INTEGRATED BENCH SEAT IN RETAINING WALL. SEAT 26-INCHES ABOVE FINISHED FLOOR. REFER TO ARCHITECT PLANS FOR DETAILS.
11. ELEVATED WALKWAY. REFER TO ARCHITECT AND STRUCTURAL PLANS FOR DETAILS.
12. SANITARY CLEANOUT. RIM ELEV. = 591.50 FL OUT ELEV. = 583.3.
13. CORE SANITARY LATERAL INTO EXISTING MANHOLE. FL IN ELEV. = 582.3
14. INSTALL AND MAINTAIN SILT FENCE FOR EROSION CONTROL.

DRAWING NOTE

1. SEED AND STRAW ALL GRASS DISTURBANCE AREAS.

GRAPHIC SCALE

10 0 5 10 20 40

(IN FEET)
1 INCH = 10 FT.

N

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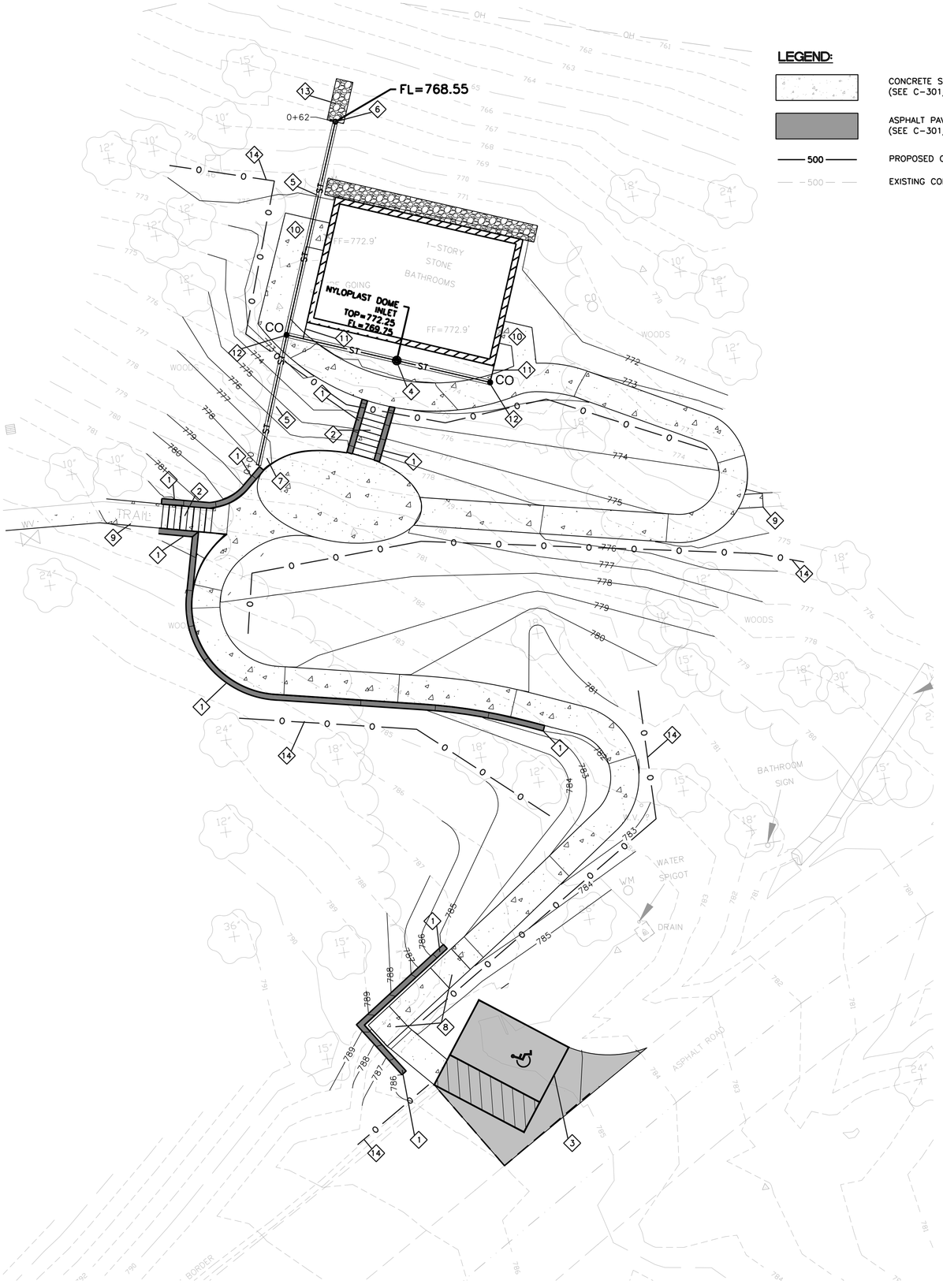
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ISSUEDATE: April 29, 2026

CAD DWG FILE:
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CHECKED BY: MW
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SHEET TITLE:
SITE PLAN
THUNDERBIRD

SHEET NUMBER:
C-201

7 OF 36 SHEETS
04/29/26



LEGEND:

- CONCRETE SIDEWALK (SEE C-301/C)
- ASPHALT PAVEMENT (SEE C-301/A)
- 500 — PROPOSED CONTOUR
- 500 — EXISTING CONTOUR

KEYED NOTES:

1. MODULAR BLOCK RETAINING WALL (SEE DETAIL C-302/B)
2. CONCRETE STEPS – 11-INCH THREAD; 6-INCH RISER (SEE DETAIL C-302/C)
3. ADA PARKING STALL (SEE DETAIL C-301/H)
4. NYLOPLAST STORM INLET (SEE DETAIL C-302/E)
5. 12-IN HDPE STORM PIPE. MAINTAIN MIN 2% SLOPE THROUGHOUT.
6. 12-IN HPDE FLARED END SECTION. FL: 768.55FT (SEE DETAIL C-302/F)
7. CONNECT BOTH 4-IN WALL DRAINAGE SYSTEMS TO 8-IN HDPE STORM PIPE. (SEE DETAILS C-301/G & C-302/B)
8. 5-FT X 5-FT LANDING
9. TRANSITION TO EXISTING TRAIL
10. THICKENED EDGE WHERE WALK MEETS EXISTING BUILDING. (SEE DETAIL C-301/B)
11. PIPE DOWNSPOUT TO STORMWATER PIPE.
12. STORMWATER CLEANOUT.
13. 3 FT BY 7.5 FT MODOT TYPE 2 ROCK BLANKET AT PIPE OUTFALL.
14. INSTALL AND MAINTAIN SILT FENCE FOR EROSION CONTROL.

DRAWING NOTES:

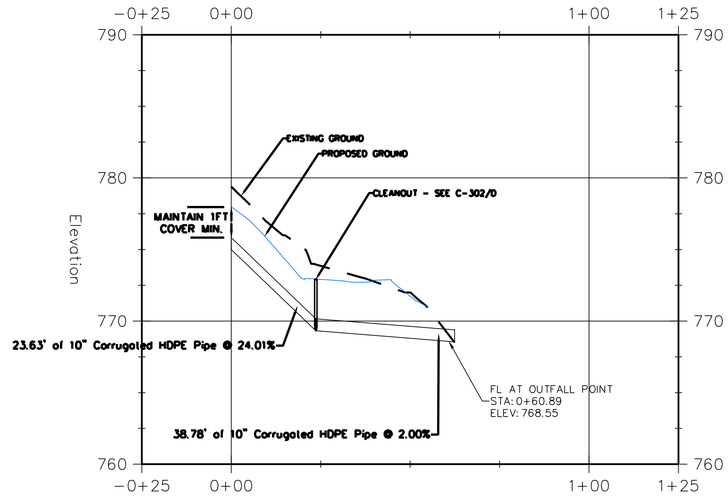
1. SEED AND STRAW ALL GRASS DISTURBANCE AREAS.
2. CONCRETE WALKS SHALL NOT SLOPE MORE THAN 1V:20H UNLESS SPECIFICALLY CALLED OUT.

GRAPHIC SCALE

10 0 5 10 20 40

(IN FEET)

1 INCH = 10 FT.



SCALES:
HORIZ: 1IN = 20FT
VERT: 1IN = 5FT

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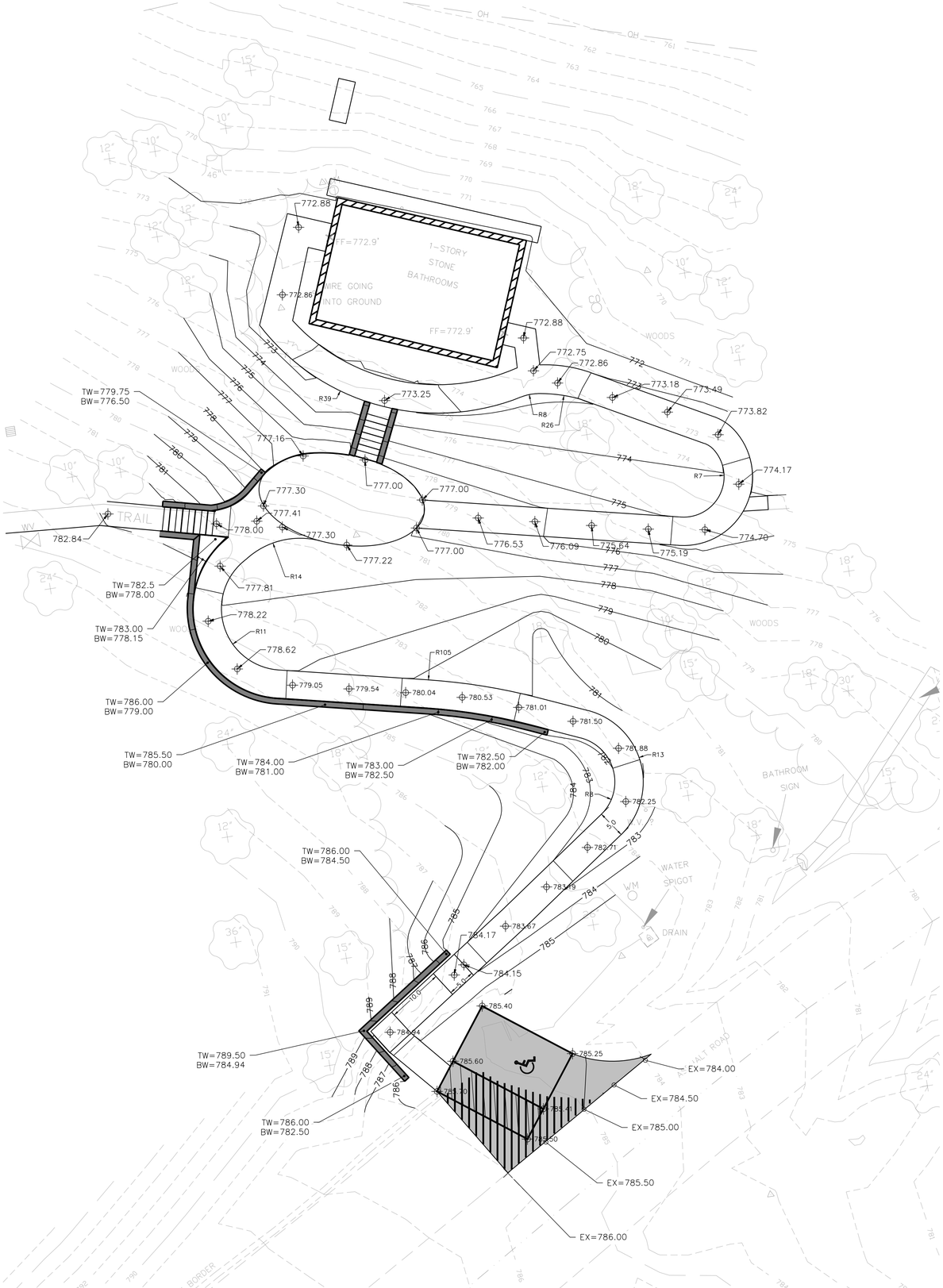
SHEET TITLE:

SITE PLAN
BUGHOUSE

SHEET NUMBER:

C-202

8 OF 36 SHEETS
04/29/26



LEGEND:

XXXX.xx — PROPOSED GRADE ELEVATION

500 — PROPOSED CONTOUR

500 — EXISTING CONTOUR

GRAPHIC SCALE

10 0 5 10 20 40

(IN FEET)

1 INCH = 10 FT.

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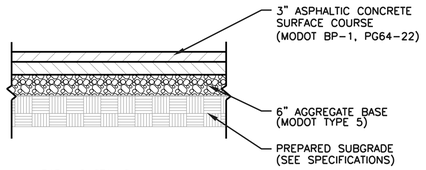
SHEET TITLE:

GRADING PLAN
BUGHOUSE

SHEET NUMBER:

C-203

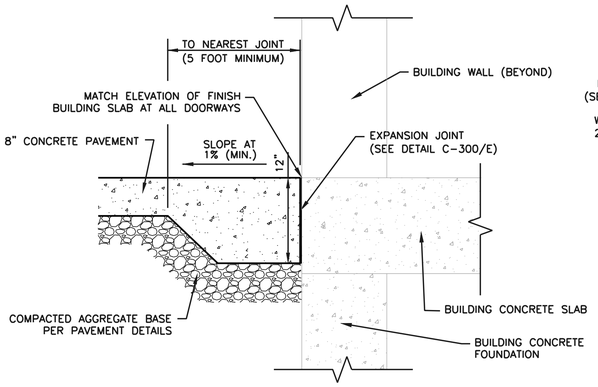
9 OF 36 SHEETS
04/29/26



PARKING STALLS

1. THIS DETAIL SHALL BE USED ONSITE PARKING STALLS ONLY.

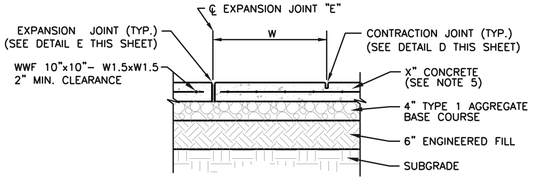
A ASPHALT PAVEMENT
NOT TO SCALE



NOTES:

1. THIS DETAIL SHALL BE USED AT ALL LOCATIONS WHERE NEW CONCRETE PAVEMENT ADJOINS WITH BUILDING FOUNDATION.

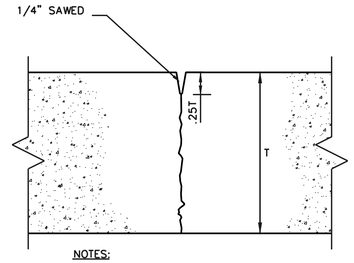
B THICKENED EDGE EXPANSION JOINT
NOT TO SCALE



NOTES:

1. W=WIDTH OF SIDEWALK ; VARIES-SEE PLANS
2. SPACE CONTRACTION JOINTS AT W. PLACE EXPANSION JOINTS AT 3xW.
3. EXPANSION JOINT SHALL BE PLACED THROUGH THE FULL DEPTH OF THE SIDEWALK.
4. SAWCUT JOINTS WITHIN 16 HOURS OF PLACEMENT.
5. USE 5" THICK CONCRETE FOR WALKS IN ALL PUBLIC R.O.W. USE 4" THICK CONCRETE FOR ALL PRIVATE WALKS.

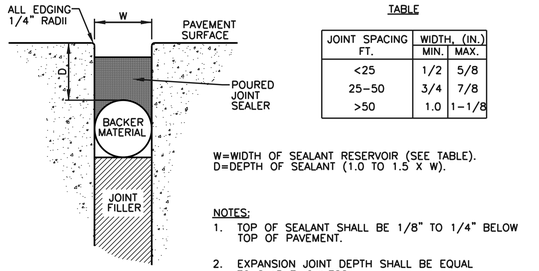
C TYPICAL CONCRETE WALK DETAIL
NOT TO SCALE



NOTES:

1. "T" DENOTES CONCRETE THICKNESS (SEE PAVEMENT SECTIONS)
2. SAWCUT JOINTS WITHIN 16 HOURS OF PLACEMENT.
3. USE ONLY IN CONCRETE WALKS.

D CONTRACTION JOINT
NOT TO SCALE



TABLE

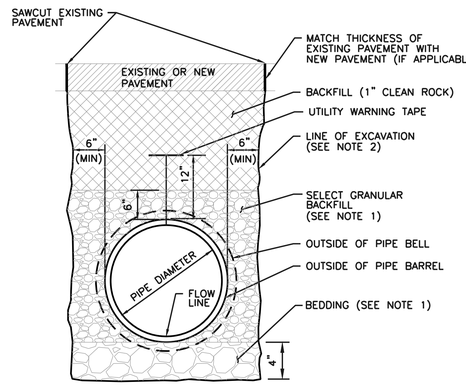
JOINT SPACING FT.	WIDTH, (IN.) MIN.	MAX.
<25	1/2	5/8
25-50	3/4	7/8
>50	1.0	1-1/8

W=WIDTH OF SEALANT RESERVOIR (SEE TABLE).
D=DEPTH OF SEALANT (1.0 TO 1.5 X W).

NOTES:

1. TOP OF SEALANT SHALL BE 1/8" TO 1/4" BELOW TOP OF PAVEMENT.
2. EXPANSION JOINT DEPTH SHALL BE EQUAL TO SLAB THICKNESS.
3. EXPANSION JOINT FILLER MATERIAL CAN ALSO HAVE A PERFORATED TOP FOR EASY REMOVAL. FILL TOP OF REMOVED STRIP WITH JOINT SEALER.

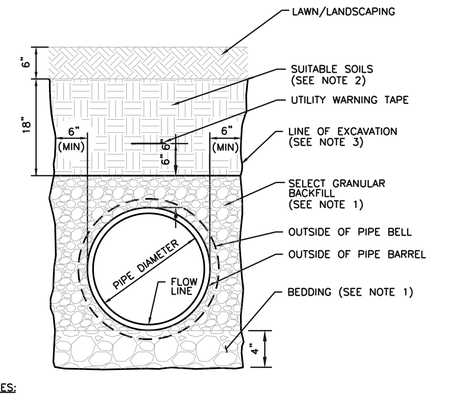
E EXPANSION JOINT
NOT TO SCALE



NOTES:

1. SELECT GRANULAR BACKFILL AND BEDDING SHALL CONSIST OF CRUSHED LIMESTONE AND SCREENINGS. COMPACT BACKFILL TO 95% MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED PROCTOR COMPACTION TEST. (ASTM D 1557)
2. CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING AND BENCHING TRENCH EXCAVATIONS IN ACCORDANCE WITH ALL LOCAL, STATE, FEDERAL AND OSHA REQUIREMENTS.

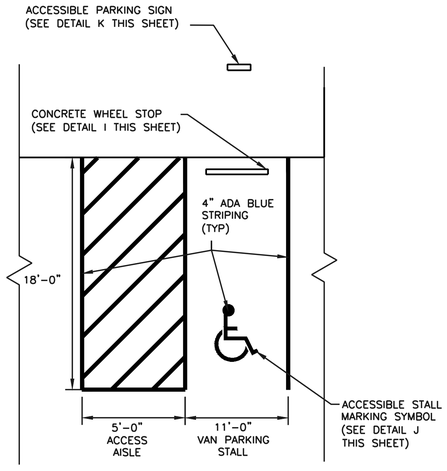
F UTILITY TRENCH - UNDER PAVEMENT
NOT TO SCALE



NOTES:

1. SELECT GRANULAR BACKFILL AND BEDDING SHALL CONSIST OF CRUSHED LIMESTONE AND SCREENINGS. COMPACT BACKFILL TO 95% MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED PROCTOR COMPACTION TEST. (ASTM D 1557)
2. COMPACT SUITABLE SOILS UNDER LAWNS TO 85% MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED PROCTOR COMPACTION TEST. (ASTM D 1557)
3. CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING AND BENCHING TRENCH EXCAVATIONS IN ACCORDANCE WITH ALL LOCAL, STATE, FEDERAL AND OSHA REQUIREMENTS.

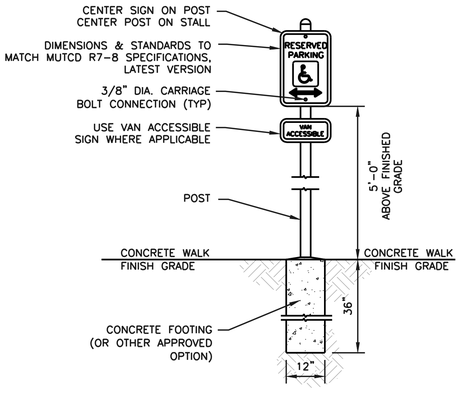
G UTILITY TRENCH - UNDER LAWN
NOT TO SCALE



NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND FOLLOWING ALL STANDARDS OF 2010 FEDERAL ACCESSIBILITY CODE FOR PAVEMENT SYMBOLS AND STRIPING.

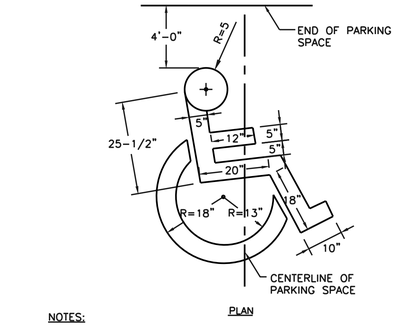
H GENERAL ACCESSIBLE PARKING STALL DETAIL
NOT TO SCALE



NOTE:

1. SIGNAGE AND ITS APPURTENANCES SHALL CONFORM TO MISSOURI DEPARTMENT OF TRANSPORTATION (MoDOT) STANDARD SPECIFICATIONS SECTION 903 AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD 2000), MOST CURRENT VERSION.

K ACCESSIBLE PARKING SIGN
NOT TO SCALE

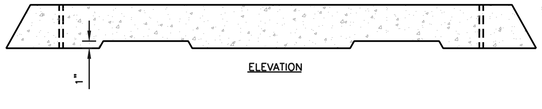


PLAN

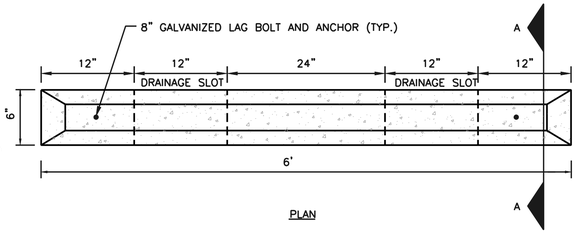
NOTES:

1. FOLLOW ALL STANDARDS OF THE 2010 ACCESSIBILITY CODE FOR PAVEMENT SYMBOLS AND STRIPING.

J ACCESSIBLE STALL MARKING SYMBOL
NOT TO SCALE

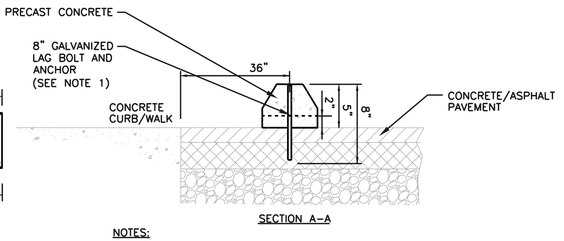


ELEVATION



PLAN

I WHEEL STOP (PRECAST CONCRETE)
NOT TO SCALE



SECTION A-A

NOTES:

1. INSTALL LAG BOLT AND ANCHOR SLEEVE INTO EXISTING AND/OR NEW PAVEMENT.

STATE OF MISSOURI
MIKE KEHOE
GOVERNOR

STATE OF MISSOURI
MATTHEW J. WEBER
NUMBER PE-2016017692
04-29-26
PROFESSIONAL ENGINEER

PROFESSIONAL SEAL

5220 Oakland Ave.
St. Louis, MO 63110
314.863.5570
CIVIL DESIGN, INC.
WBE / DBE
Missouri State Certificate of Authority #2002006804

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF NATURAL RESOURCES DIVISION OF STATE PARKS

PROJECT TITLE
UPDATE CCC RESTROOM AND RENOVATE CCC RESTROOM INTO CABIN

WASHINGTON STATE PARK
13041 STATE HIGHWAY 104
DE SOTO, MO 63020-7000

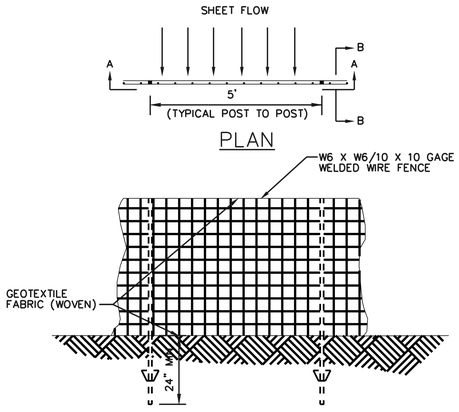
PROJECT # X2337-01
SITE # 5221
ASSET #
RESTROOM - DAY USE AREA #7815221007
RESTROOM - SERVICE AREA #7815221011

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUEDATE: April 29, 2026

CAD DWG FILE:
DRAWN BY: AT
CHECKED BY: MW
DESIGNED BY:

SHEET TITLE:
DETAILS

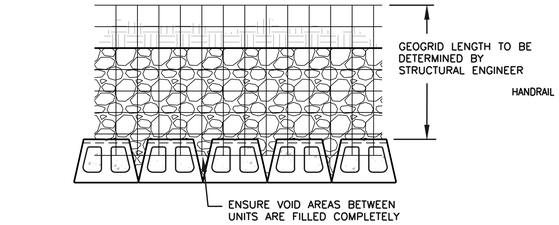
SHEET NUMBER:
C-301
10 OF 36 SHEETS
04/29/26



GENERAL NOTES

1. DO NOT SCALE DRAWING. FOLLOW DIMENSIONS.
2. SILTATION CONTROL DEVICES TO REMAIN IN PLACE UNTIL 70% VEGETATIVE GROWTH INSURES NO FURTHER EROSION OF THE SOIL.
3. SILTATION FENCES SHALL BE INSPECTED PERIODICALLY FOR DAMAGE AND FOR THE AMOUNT OF SEDIMENTATION WHICH HAS ACCUMULATED. REMOVAL OF SEDIMENT WILL BE REQUIRED WHEN IT REACHES 1/2 OF THE HEIGHT OF THE SILTATION FENCE.
4. ATTACHMENT OF WELDED WIRE FENCE AND GEOTEXTILE FABRIC TO BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.

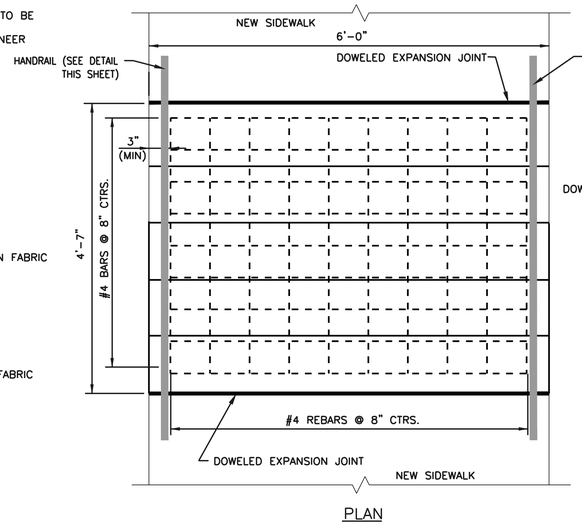
A SILT FENCE
NOT TO SCALE



NOTES:

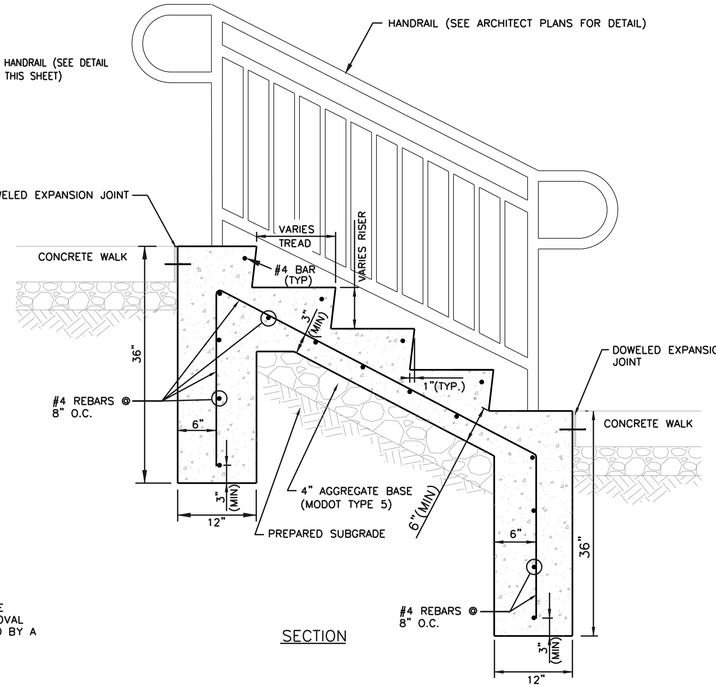
1. FOLLOW ALL MANUFACTURER RECOMMENDATIONS AND SPECIFICATIONS.
2. WALL DESIGN AND STRUCTURAL CALCULATIONS SHALL BE PROVIDED BY WALL MANUFACTURER. CALCULATIONS SHALL BE SIGNED AND SEALED BY A LICENSED STRUCTURAL ENGINEER IN THE STATE OF MISSOURI.
3. CONTRACTOR IS RESPONSIBLE FOR SUBMITTING SHOP DRAWINGS FOR REVIEW AND APPROVAL.

B MODULAR BLOCK WALL W/ DRAIN TILE
NOT TO SCALE

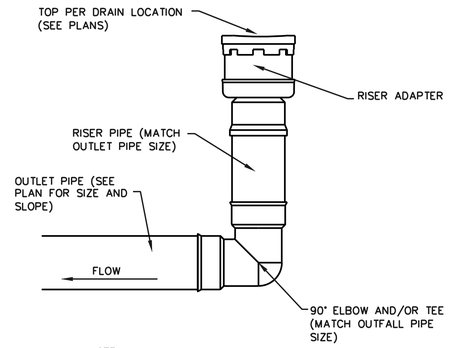


NOTES

1. SHOP DRAWINGS: THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF THE DESIGN AND LAYOUT OF THE CONCRETE STAIRS TO THE ARCHITECT FOR APPROVAL PRIOR TO CONSTRUCTION. THE SHOP DRAWINGS MUST BE SIGNED AND SEALED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF MISSOURI.

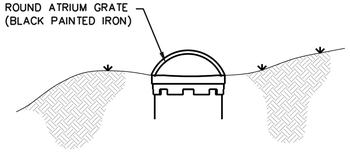


C CONCRETE STAIRS
NOT TO SCALE

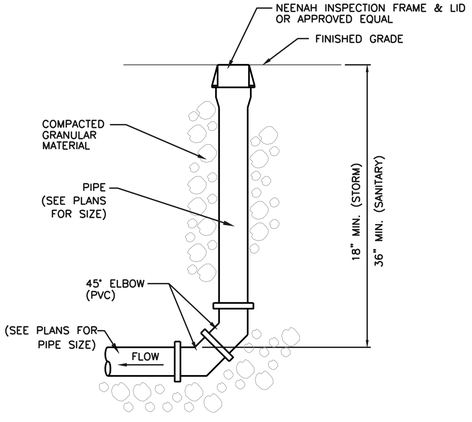


NOTE:

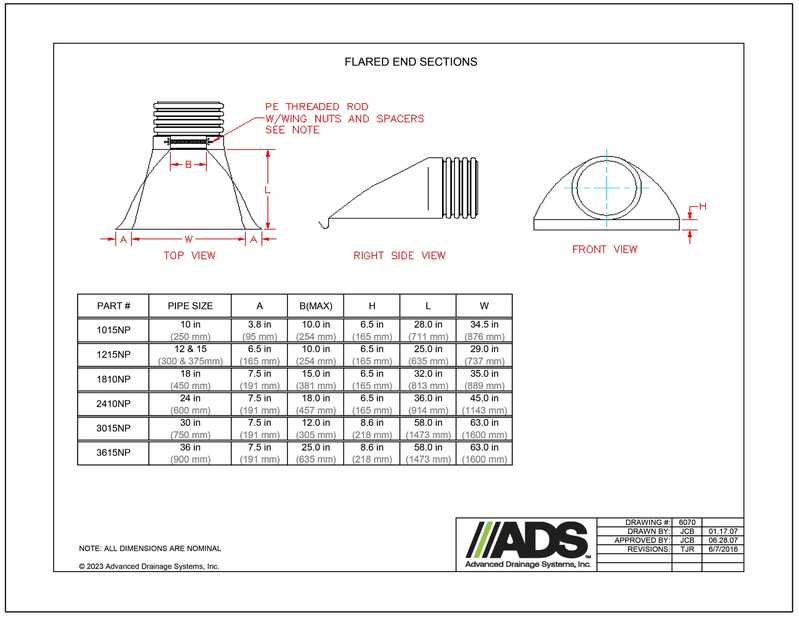
1. BASIS OF DESIGN PROVIDED BY NYLOPLAST. CONTRACTOR SHALL INSTALL NYLOPLAST STRUCTURE, OR AN EQUIVALENT STRUCTURE APPROVED BY ENGINEER.
2. PIPE AND FITTINGS UNDER LAWNS/LANDSCAPING SHALL BE PVC:SDR-35. PIPE AND FITTINGS UNDER PAVEMENTS SHALL BE PVC:SDR-26.
3. CONTRACTOR SHALL FOLLOW MANUFACTURER SPECIFICATIONS FOR STRUCTURE INSTALLATION.



E AREA DRAIN
NOT TO SCALE



D CLEANOUT
NOT TO SCALE



PART #	PIPE SIZE	A	B(MAX)	H	L	W
1015NP	10 in (250 mm)	3.8 in (95 mm)	10.0 in (254 mm)	6.5 in (165 mm)	28.0 in (711 mm)	34.5 in (876 mm)
1215NP	12 & 15 (300 & 375mm)	6.5 in (165 mm)	10.0 in (254 mm)	6.5 in (165 mm)	25.0 in (635 mm)	29.0 in (737 mm)
1810NP	18 in (450 mm)	7.5 in (191 mm)	15.0 in (381 mm)	6.5 in (165 mm)	32.0 in (813 mm)	35.0 in (889 mm)
2410NP	24 in (600 mm)	7.5 in (191 mm)	18.0 in (457 mm)	6.5 in (165 mm)	36.0 in (914 mm)	45.0 in (1143 mm)
3015NP	30 in (750 mm)	7.5 in (191 mm)	12.0 in (305 mm)	8.6 in (218 mm)	58.0 in (1473 mm)	63.0 in (1600 mm)
3615NP	36 in (900 mm)	7.5 in (191 mm)	25.0 in (635 mm)	8.6 in (218 mm)	58.0 in (1473 mm)	63.0 in (1600 mm)

NOTE: ALL DIMENSIONS ARE NOMINAL

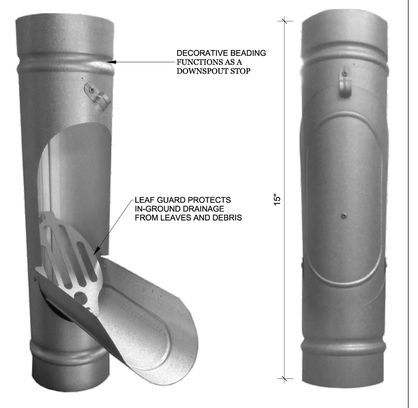
© 2023 Advanced Drainage Systems, Inc.

DRAWING #:	6070	
DRAWN BY:	JCB	01.17.07
APPROVED BY:	JCB	06.28.07
REVISIONS:	TJR	6/7/2016

F FLARED END SECTION
NOT TO SCALE

ROUND DOWNSPOUT CLEANOUT

AVAILABLE IN 16 & 20 OZ. COPPER, 24 GA. GALVALUME, .027, .032 & .040 ALUMINUM, 26-22 GA STAINLESS STEEL AND 24GA KYNAR STEEL IN ANY STANDARD COLOR. PROVIDES AN EASY WAY TO KEEP YOUR DOWNSPOTS AND IN-GROUND DRAIN LEADERS CLEAN. CLEANOUTS CAN ALSO BE USED AS A DIVERTER FOR A RAIN COLLECTOR SYSTEM CLEANOUTS ARE TAPPERED FOR AN EASY INSTALL FOR K&M STANDARD ROUND DOWNSPOUT PIPE
AVAILABLE FOR 3", 4", 5" & 6" ROUND



K&M SHEET METAL
1310 E. Cornwallis Rd.
Durham, NC 27713
P-(919) 544-8887 F- 544-8898
info@kmsheetmetal.com - www.kmsheetmetal.com

ROUND DOWNSPOUT CLEANOUT

REVISIONS		
1	10/6/2015	ADDED
2	6/27/2017	ORIGINAL SHEET RETAINED
3		
4		
5		
6		

D 1001

NOTES

1. DOWNSPOUT CLEANOUTS TO BE PROVIDED ON GUTTER DOWNSPOUT BOOTS BEFORE BEING PIPED UNDERGROUND.
2. MATCH PROPOSED GUTTER SIZE.
3. FINISH TO BE COORDINATED AND APPROVED BY OWNER.

G DOWNSPOUT CLEANOUT
NOT TO SCALE

STATE OF MISSOURI
MIKE KEHOE
GOVERNOR

STATE OF MISSOURI
MATTHEW J. WEBER
NUMBER PE-2016017692
04-29-26
PROFESSIONAL ENGINEER

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PROJECT # X2337-01
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REVISION:
DATE:
REVISION:
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DATE:
ISSUEDATE: April 29, 2026

CAD DWG FILE:
DRAWN BY: AT
CHECKED BY: MW
DESIGNED BY:

SHEET TITLE:
DETAILS

SHEET NUMBER:
C-302

11 OF 36 SHEETS
04/29/26

STRUCTURAL DESIGN DATA

BUILDING CODE			2021 INTERNATIONAL BUILDING CODE / ASCE 7-16
RISK CATEGORY			II
ELEVATED WALKWAY DEAD & LIVE LOADS			
LIVE			60 PSF
STEEL STRINGER & COMPOSITE DECK			20 PSF
	TOTAL		80 PSF
ROOF RAIN LOAD DATA			
RAIN INTENSITY	i	=	7 IN/HR
ROOF SNOW LOAD DATA			
GROUND SNOW	p_g	=	20 PSF
EXPOSURE FACTOR	C_e	=	0.9
THERMAL FACTOR	C_t	=	1.2
FLAT-ROOF SNOW	p_f	=	16 PSF
MINIMUM UNIFORM SNOW	p_m	=	20 PSF
WIND DESIGN DATA			
ULTIMATE DESIGN WIND SPEED	V_{ult}	=	108 MPH (3-SECOND GUST)
NOMINAL DESIGN WIND SPEED	V_{asd}	=	84 MPH (3-SECOND GUST)
EXPOSURE			B
DIRECTIONAL PROCEDURE			
EARTHQUAKE DESIGN DATA			
IMPORTANCE FACTOR	I_E	=	1.0
MAPPED SHORT PERIOD ACCELERATION	S_S	=	0.456
MAPPED 1-SEC PERIOD ACCELERATION	S_1	=	0.178
SITE CLASS (UNKNOWN)			D
DESIGN SHORT PERIOD ACCELERATION	S_{DS}	=	0.436
DESIGN1-SEC PERIOD ACCELERATION	S_{D1}	=	0.266
SEISMIC DESIGN CATEGORY			D

GEOTECHNICAL INFORMATION	
NET ALLOWABLE SOIL BEARING PRESSURE	1,500 PSF
MIN DEPTH TO BOTTOM OF FOOTING FOR FROST PROTECTION	30 IN
ACTIVE PRESSURE	35 PSF/FT
PASSIVE PRESSURE (SUBMERGED COHESIVE, NO SAFETY FACTOR)	250 PSF/FT
UNIT WEIGHT OF WET COHESIVE SOIL	120 PCF
UNIT WEIGHT OF WET CRUSHED LIMESTONE	130 PCF
ULTIMATE COEFFICIENT OF FRICTION (CONCRETE ON CLAY)	0.3
LIVE LOAD SURCHARGE ON PATIO AND DECK (IN SERVICE)	100 PSF
LIVE LOAD SURCHANGE ON WALKWAY AND STEPS (IN SERVICE)	60 PSF

STRUCTURAL DRAWING INDEX

S-001	GENERAL STRUCTURAL NOTES
S-101	WALL PLAN & ELEVATION
S-102	STRUCTURAL DETAILS
S-201	ELEVATED WALKWAY PLAN
S-202	WALKWAY ELEVATION
S-203	STRUCTURAL DETAILS

LIST OF ABBREVIATIONS

CLR	CLEAR
EF	EACH FACE
EW	EACH WAY
OC	ON CENTER
OF	OUTSIDE FACE
MAX	MAXIMUM
ME	MATCH EXISTING
MIN	MINIMUM
STD	STANDARD
T&B	TOP AND BOTTOM
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL

STRUCTURAL GENERAL NOTES

GENERAL

A. ALL REQUIREMENTS IN THE STRUCTURAL DRAWINGS ARE DIRECTED TO THE CONTRACTOR.
B. THE STRUCTURAL DRAWINGS REPRESENT THE COMPLETED STRUCTURE AND DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION.
C. WHERE CONFLICTS EXIST WITHIN THE STRUCTURAL DOCUMENTS, USE THE STRICTEST OF THE CONFLICTING REQUIREMENTS.
D. DETAILS LABELED "TYPICAL" APPLY TO ALL SITUATIONS THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILED. ALL INSTANCES ARE NOT NECESSARILY CALLED OUT.
E. VERIFY ALL DIMENSIONS AND ELEVATIONS THAT RELATE TO EXISTING CONDITIONS, BEFORE BEGINNING FABRICATION OR CONSTRUCTION.
F. ENSURE THAT NO CONSTRUCTION METHODS USED WILL DAMAGE ADJACENT BUILDINGS, UTILITIES, OR OTHER PROPERTY.
G. DO NOT CUT, NOTCH, OR OTHERWISE REDUCE IN STRENGTH STRUCTURAL MEMBERS, UNLESS APPROVED BY THE ENGINEER OF RECORD.

CONCRETE

1. QUALITY ASSURANCE

   PERFORM ALL RETAINING WALL WORK IN CONFORMANCE WITH CODE-CITED EDITIONS OF ACI 301 "SPECIFICATIONS FOR CONCRETE CONSTRUCTION".

2. SUBMITTALS

   SUBMIT CONCRETE DESIGN MIXES AND STEEL REINFOCEMENT SHOP DRAWINGS BEFORE BEGINNING WORK. BEGIN CONCRETE PRODUCTION AFTER THE STRUCTURAL ENGINEER OF RECORD HAS REVIEWED AND APPROVED THESE SUBMITTALS.

3. MATERIALS

   A. USE NORMAL-WEIGHT CONCRETE (MIN 148 PCF DRY DENSITY) WITH MIXES DESIGNED TO MEET THE FOLLOWING CRITERIA:

1.	WALLS AND FOOTING		
	A.	EXPOSURE CATEGORIES	F2, S0, W1, C1
	B.	MAX W/CM	0.45
	C.	MIN 28-DAY COMPRESSIVE STRENGTH	4,500 PSI
	D.	NOMINAL MAX AGGREGATE SIZE	1.5 INCHES
	E.	ENTRAINED AIR	5.5% +/- 1.5%
2.	SLAB		
	A.	EXPOSURE CATEGORIES	F0, S0, W0, C0
	B.	MAX W/CM	N/A
	C.	MIN 28-DAY COMPRESSIVE STRENGTH	3,500 PSI
	D.	NOMINAL MAX AGGREGATE SIZE	3/4 INCHES
	E.	ENTRAINED AIR	N/A

   B. DO NOT USE CHLORIDE-BASED ADMIXTURES.
   C. WHEN ADDING A PLASTICIZER OR WATER-REDUCER, PROPORTION CONCRETE TO A SLUMP OF 2 TO 4 INCHES BEFORE ADDING THE ADMIXTURE. AFTER ADDING IT, THE MAXIMUM SLUMP MAY BE 8 INCHES AT THE POINT OF PLACEMENT.
   D. REINFORCING STEEL: ASTM A615, GRADE 60, DEFORMED DO NOT WELD BARS.
   E. REINFORCEMENT SUPPORTS: CRSI RB4.1
   F. FILTER FABRIC: MIRAFI 180N OR EQUIVALENT NONWOVEN GEOTEXTILE (MIN 8 OUNCE PER SQUARE YARD WEIGHT)

4. INSTALLATION

   A. ENTRAIN AIR BY VOLUME AT POINT OF DISCHARGE.
   B. DETERMINE CONCRETE SLUMP AT POINT OF PLACEMENT INTO STRUCTURE.
   C. REINFORCING BAR SPLICES: CLASS "B" CONTACT LAPS. USE THE FOLLOWING UNLESS NOTED OTHERWISE. (HORIZONTAL BARS/VERTICAL BARS)
      1. #4 37 INCHES / 29 INCHES
      2. #5 47 INCHES / 36 INCHES
      3. #6 56 INCHES / 43 INCHES
   D. MIN CONCRETE COVER TO STEEL REINFORCING, UNLESS NOTED OTHERWISE:
      1. CONCRETE CAST AGAINST AND PERMANENTLY IN CONTACT WITH GROUND: 3 INCHES
      2. CONCRETE EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: 2 INCHES
   E. FINISHES
      1. AS-CAST SURFACES
         A. CONCRETE NOT EXPOSED TO VIEW: ROUGH-FORM FINISH (SF-1.0)
         B. CONCRETE EXPOSED TO VIEW: SMOOTH-FORM (SF-2.0) WITH RUBBED FINISH
      2. UNFORMED SURFACES
         A. TOPS OF FOOTINGS: SCRATCH FINISH
         B. TOPS OF WALLS: FLOAT FINISH

STEEL

1. GENERAL REQUIREMENTS
   A. ALL STRUCTURAL STEEL WORK SHALL COMPLY WITH THE CODE-CITED EDITION OF AISC 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".
   B. DESIGN BASIS: LOAD AND RESISTANCE FACTOR DESIGN (LRFD).
2. SUBMITTALS
   A. SUBMIT THE FOLLOWING TO THE EOR BEFORE STARTING STEEL WORK. BEGIN WORK ONLY AFTER THE ENGINEER OF RECORD HAS APPROVED THE SUBMITTALS.
      a. SHOP DRAWINGS.
3. MATERIALS

A.	FOR ALL STEEL EXPOSED TO WEATHER OR MOISTURE, USE HOT-DIP GALVANIZED STEEL THAT CONFORMS TO THE FOLLOWING ASTM STANDARDS:		
	a.	SHAPES	ASTM A123
	b.	HARDWARE	ASTM A153 OR F2329
B.	SHAPES		
	a.	W	ASTM A992
	b.	ALL OTHER SHAPES	ASTM A36
C.	PLATES AND BARS		ASTM A36
D.	STRUCTURAL FASTENERS		
	a.	HIGH-STRENGTH BOLTS	
		1. CONVENTIONAL	ASTM F3125, GR A325
		2. TWIST-OFF/TENSION-CONTROL	ASTM F3125, GR F1852
	b.	THROUGH-BOLTS	ASTM F1554, GR 36
	c.	COMMON/ERECTION/NON-STRUCTURAL BOLTS	ASTM A307, GR A
E.	WASHERS		
	a.	HARDENED	ASTM F436
	b.	PLAIN	ASTM F844
	c.	DIRECT-TENSION INDICATOR	ASTM F959
F.	NUTS		ASTM A563
G.	WELDING ELECTRODES	MINIMUM TENSILE STRENGTH = 70 KSI	

4. CONSTRUCTION
   A. ALL BOLTED JOINTS SHALL BE SNUG-TIGHTENED.
   B. NO DELEGATED CONNECTION DESIGN IS REQUIRED.

SPECIAL INSPECTIONS

THE OWNER OR THE ENGINEER ACTING AS THE OWNER'S AGENT SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PERFORM SPECIAL INSPECTIONS DURING CONSTRUCTIONS.

DEFINITIONS

A. APPROVED AGENCY. AN ESTABLISHED AND RECOGNIZED AGENCY REGULARLY ENGAGED IN CONDUCTING TESTS OR FURNISHING INSPECTION SERVICES, WHEN SUCH AN AGENCY HAS BEEN APPROVED.
B. SPECIAL INSPECTION. INSPECTION REQUIRED OF MATERIALS, INSTALLATION, FABRICATION, ERECTION, OR PLACEMENT OF COMPONENTS AND CONNECTIONS THAT REQUIRE SPECIAL EXPERTISE TO ENSURE COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS.
C. SPECIAL INSPECTION, CONTINUOUS. THE FULL-TIME OBSERVATION OF WORK THAT REQUIRES SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED.
D. SPECIAL INSPECTION, PERIODIC. THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK THAT REQUIRES SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK.

SOILS

1. VERIFY MATERIALS BELOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY (PERIODIC).
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL (PERIODIC).
3. PERFORM CLASSIFICATION AND TESTING ON COMPACTED FILL MATERIALS (PERIODIC).
4. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL (CONTINUOUS).
5. PRIOR TO PLACING AND COMPACTING FILL, INSPECT SUBGRADE AND VERIFY THAT THE SITE HAS BEEN PREPARED PROPERLY (PERIODIC).

CONCRETE

1. INSPECT REINFORCING STEEL AND PLACEMENT (PERIODIC).
2. VERIFY THAT THE REQUIRED DESIGN MIX IS USED (PERIODIC).
3. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE (CONTINUOUS).
4. INSPECT CONCRETE PLACEMENT (CONTINUOUS).
5. VERIFY THAT PROPER CURING METHODS ARE USED (PERIODIC).
6. INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED (PERIODIC).

STRUCTURAL STEEL

1. VERIFY THAT BOLTS/ANCHOR RODS ARE PLACED IN ALL HOLES AND WASHERS ARE POSITIONED AS REQUIRED (DURING BOLTING, RANDOM LOCATIONS).

STATE OF MISSOURI
MIKE KEHOE
GOVERNOR

STATE OF MISSOURI
ERIC WILLIAM LARSON
NUMBER PE-2017023852
PROFESSIONAL ENGINEER
04/29/2026

PROFESSIONAL SEAL

CDI CIVIL DESIGN, INC.
WBE / DBE
Missouri State Certificate of Authority #2002006804
St. Louis, MO 63110
5220 Oakland Ave.
314.863.5570

OFFICE OF ADMINISTRATION
DIVISION OF ACILITIES MANAGEMENT,
DESIGN AND CONSCTRUCTION

DEPARTMENT OF NATURAL RESOURCES DIVISION OF STATE PARKS

UPDATE CCC RESTROOM AND RENOVATE CCC RESTROOM INTO CABIN
Washington State Park
De Soto, Missouri

WASHINGTON STATE PARK
13041 STATE HIGHWAY 104
DE SOTO, MO 63020-7000

PROJECT # X2337-01
SITE # 6775
ASSET #
RESTROOM - DAY USE AREA #7815221007
RESTROOM - SERVICE AREA #7815221011

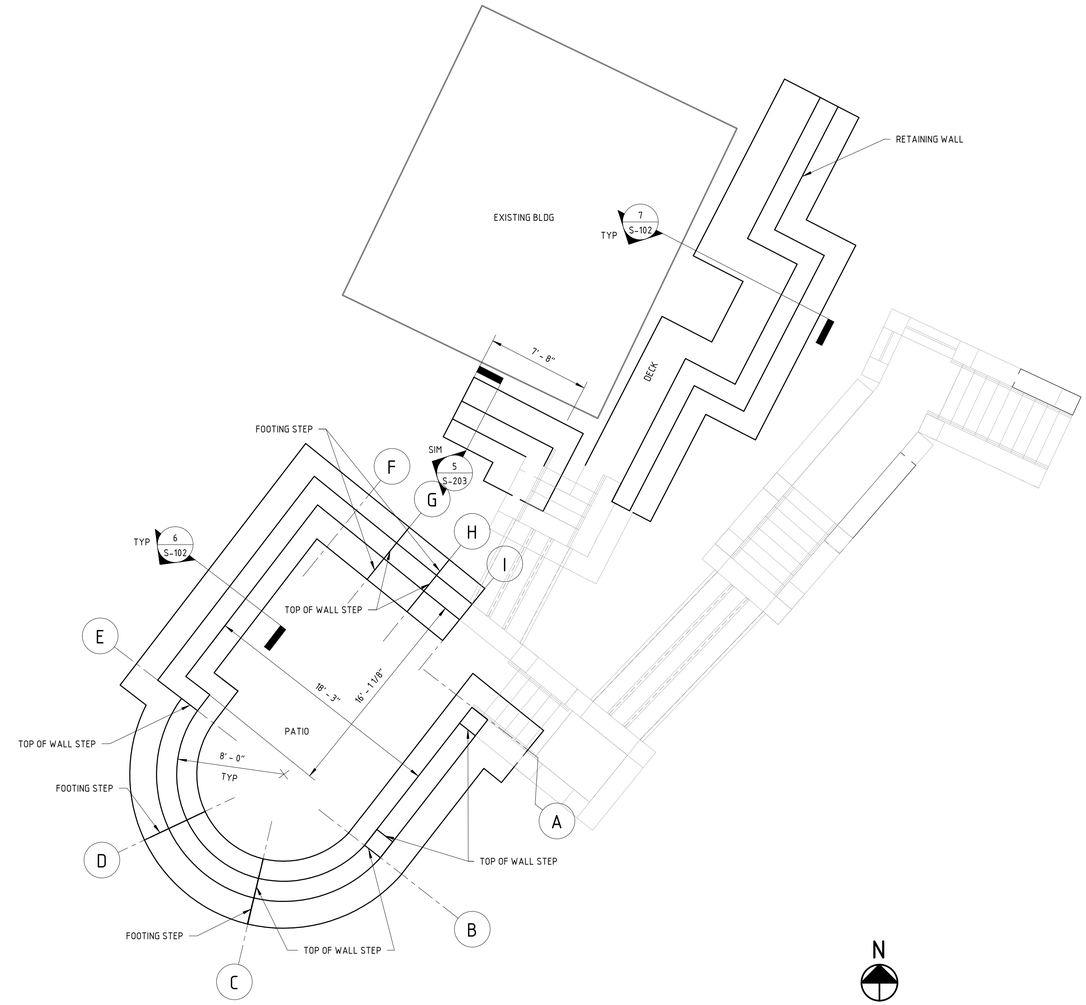
REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUEDATE: April 29, 2026

CAD DWG FILE:
DRAWN BY: SAH
CHECKED BY: EWL
DESIGNED BY: SAH

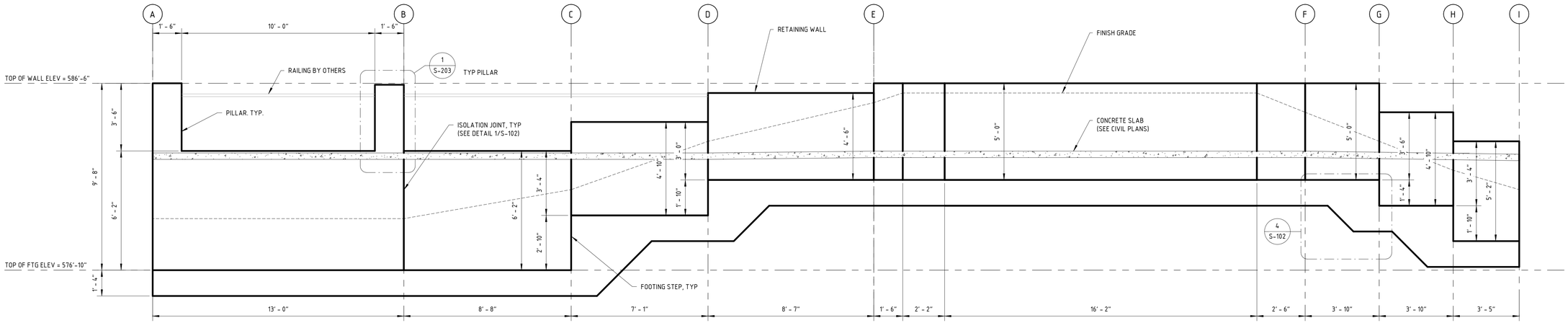
SHEET TITLE:
GENERAL STRUCTURAL NOTES

SHEET NUMBER:
S-001

12 OF 36 SHEETS
04/29/2026



1 RETAINING WALL PLAN
3/16" = 1'-0"



2 PATIO RETAINING WALL ELEVATION
3/8" = 1'-0"

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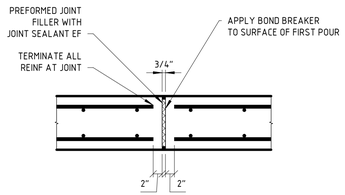
REVISION:
DATE:
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DATE:
ISSUEDATE: April 29, 2026

CAD DWG FILE:
DRAWN BY: SAH
CHECKED BY: EWL
DESIGNED BY: SAH

SHEET TITLE:
WALL PLAN & ELEVATION

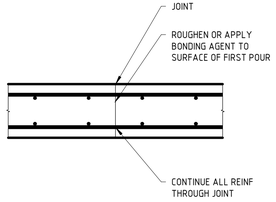
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S-101

13 OF 36 SHEETS
04/29/2026



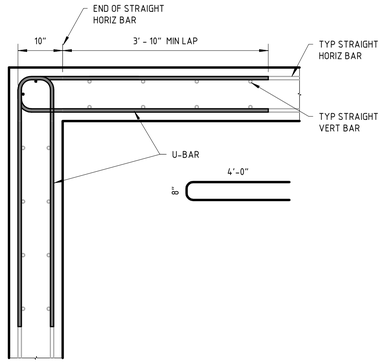
PLAN

1 TYPICAL ISOLATION JOINT
3/4" = 1'-0"



PLAN

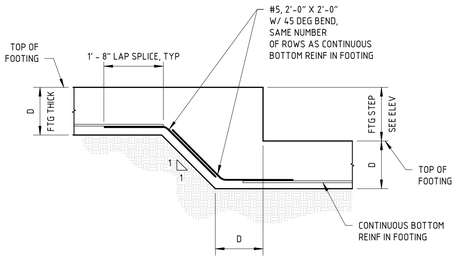
2 TYPICAL WALL CONSTRUCTION JOINT
3/4" = 1'-0"



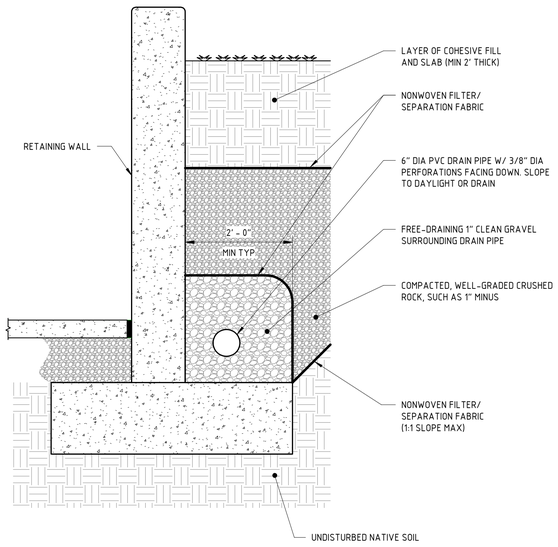
PLAN

NOTES:
1. CORNER BARS SHALL BE THE SAME BAR SIZE AS THE TYPICAL STRAIGHT HORIZONTAL BARS.
2. PLACE ONE SET AT EACH LEVEL OF TYPICAL STRAIGHT HORIZONTAL BARS.

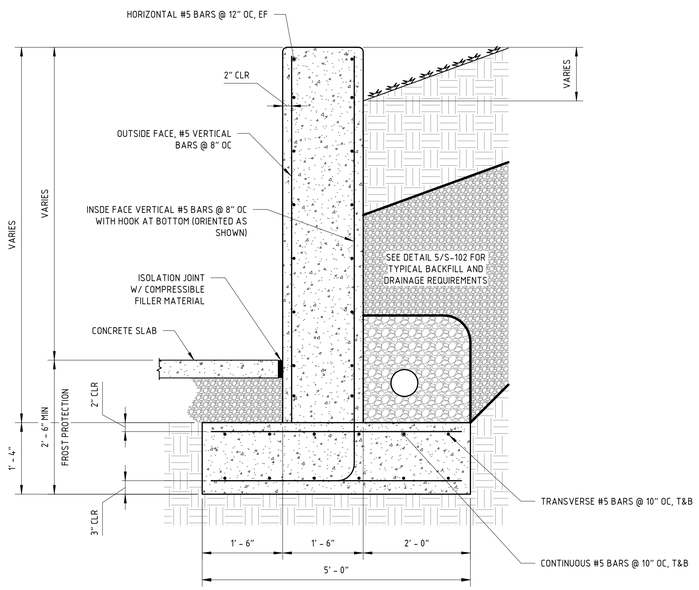
3 HORIZ REINF AT 90 DEG WALL CORNER
3/4" = 1'-0"



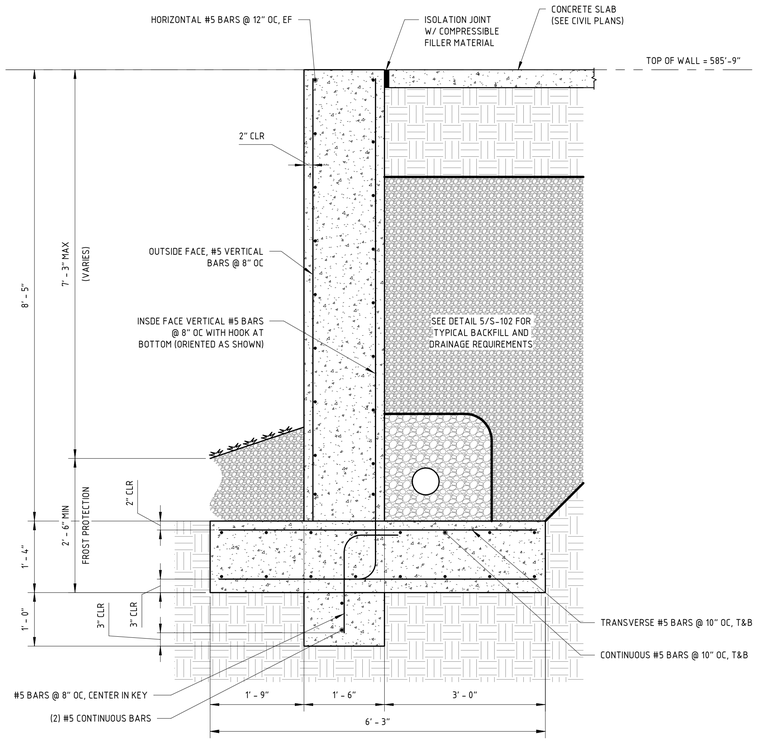
4 TYPICAL FOOTING STEP
1/2" = 1'-0"



5 TYPICAL BACKFILL AND DRAINAGE REQUIREMENTS
3/4" = 1'-0"



6 TYPICAL RETAINING WALL AROUND PATIO
3/4" = 1'-0"



7 TYPICAL RETAINING WALL ADJACENT TO DECK
3/4" = 1'-0"

STATE OF MISSOURI
MIKE KEHOE
GOVERNOR

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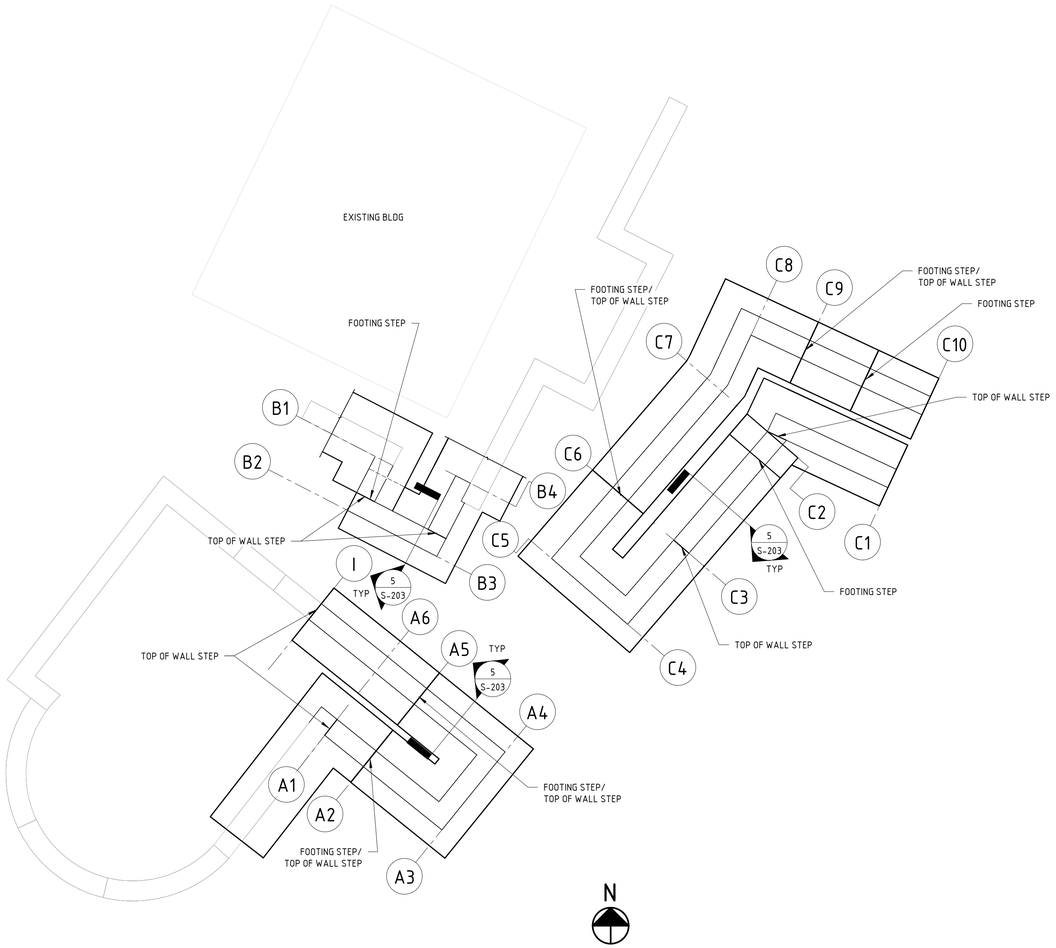
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ISSUEDATE: April 29, 2026

CAD DWG FILE:
DRAWN BY: SAH
CHECKED BY: EWL
DESIGNED BY: SAH

SHEET TITLE:
STRUCTURAL DETAILS

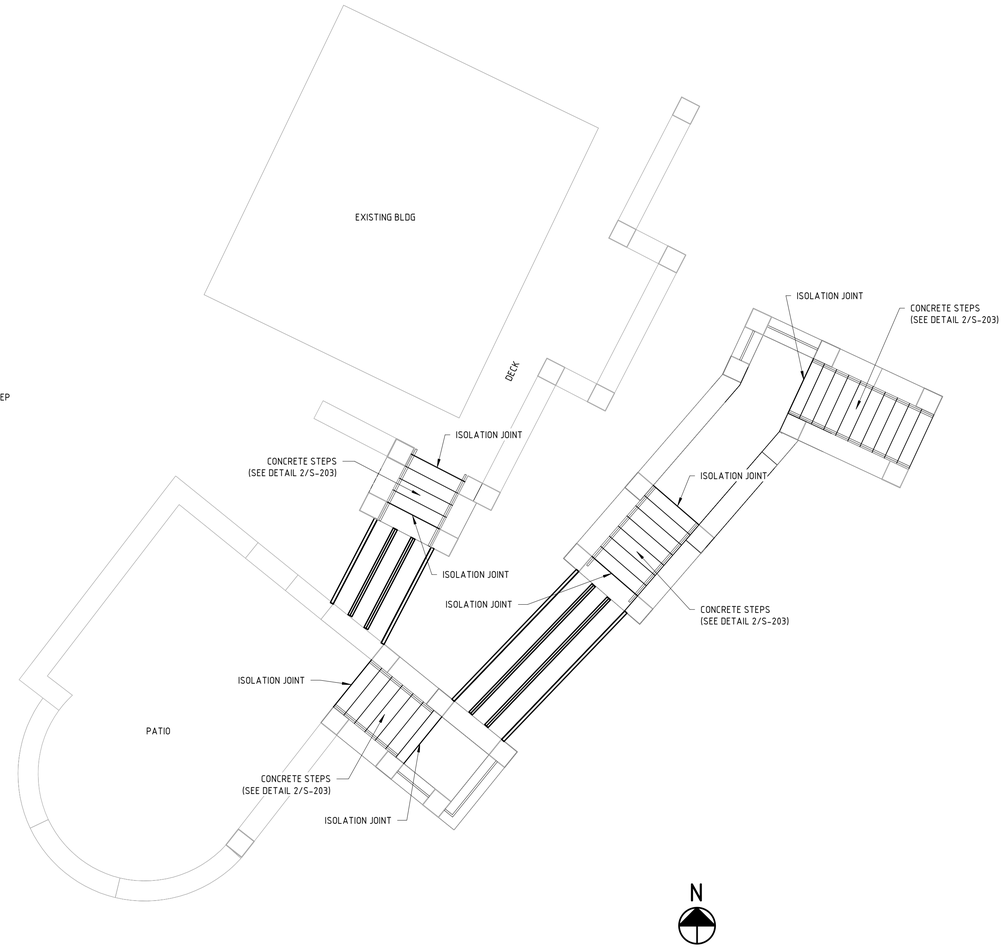
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S-102

14 OF 36 SHEETS
04/29/2026



1 WALKWAY FOUNDATION PLAN
3/16" = 1'-0"

0 2'-8" 5'-4" 10'-8"



2 WALKWAY FRAMING PLAN
3/16" = 1'-0"

0 2'-8" 5'-4" 10'-8"

STATE OF MISSOURI
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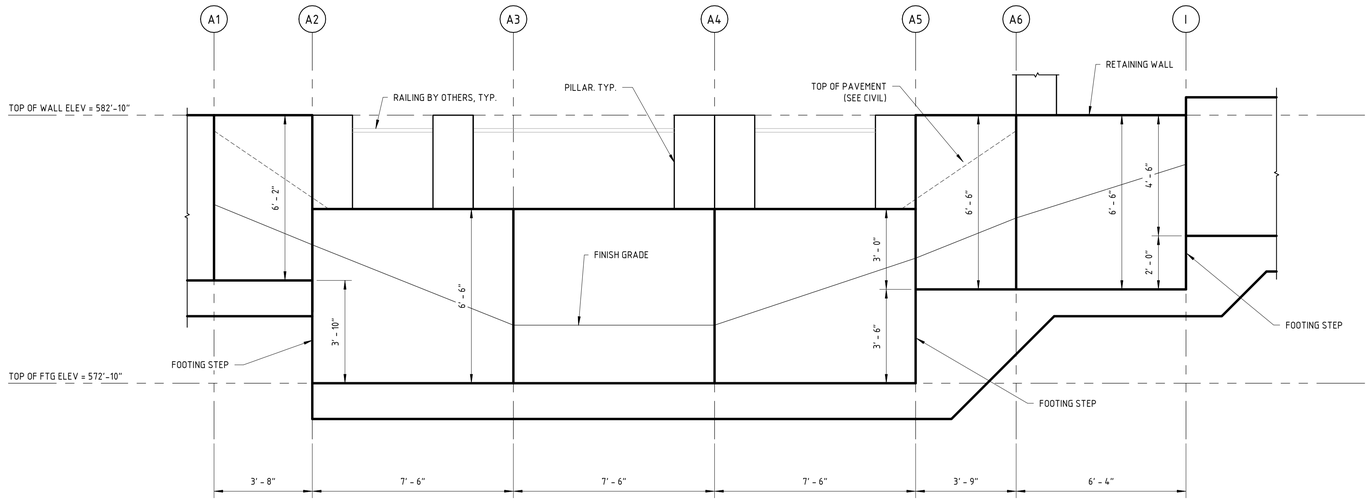
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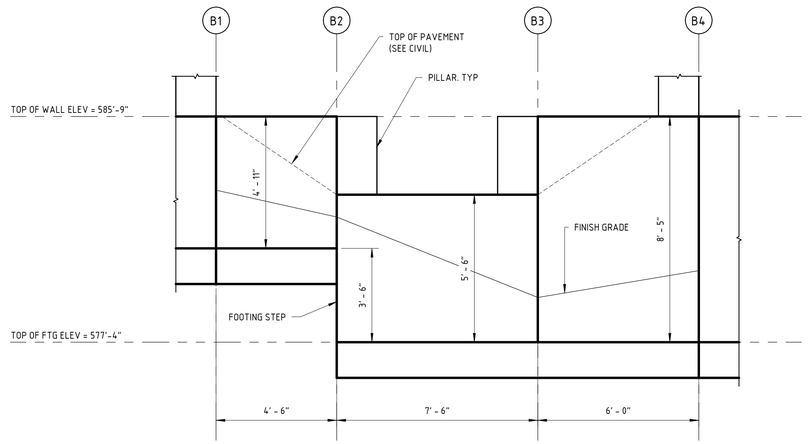
SHEET TITLE:
ELEVATED WALKWAY PLAN

SHEET NUMBER:
S-201

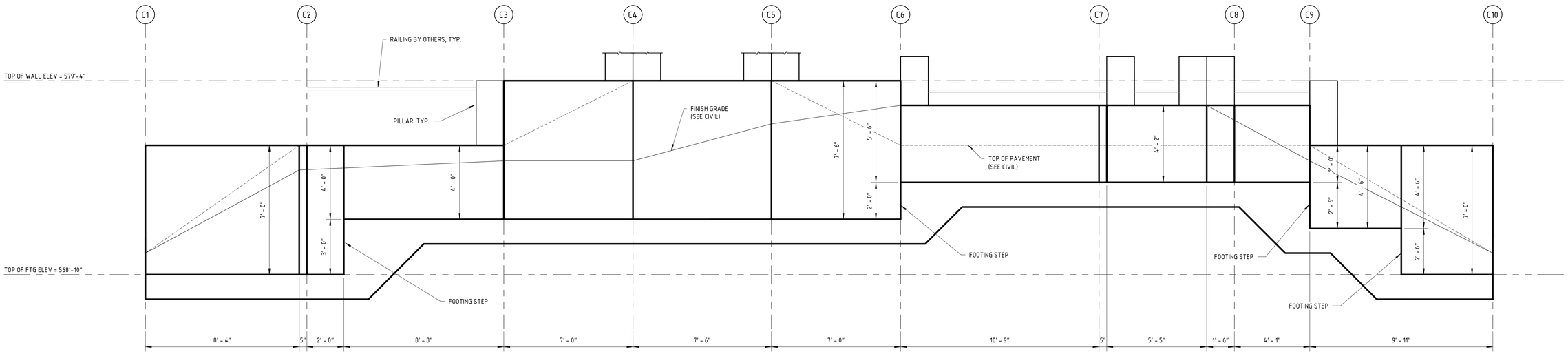
15 OF 36 SHEETS
04/29/2026



1 WALL ELEVATION
3/8" = 1'-0"



2 WALL ELEVATION
3/8" = 1'-0"



3 WALL ELEVATION
3/8" = 1'-0"

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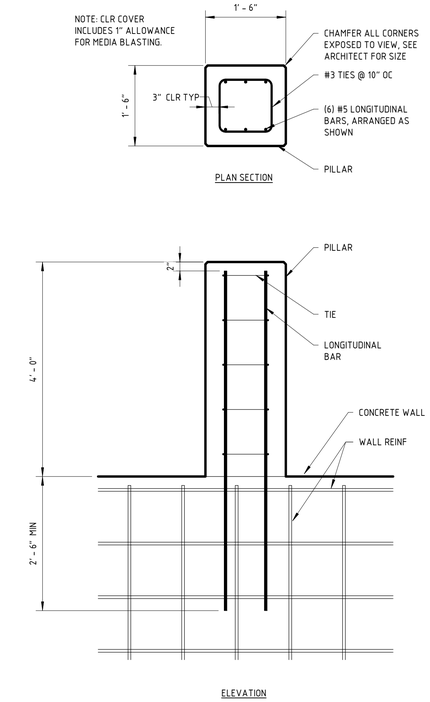
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ISSUEDATE: April 29, 2026

CAD DWG FILE:
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DESIGNED BY: SAH

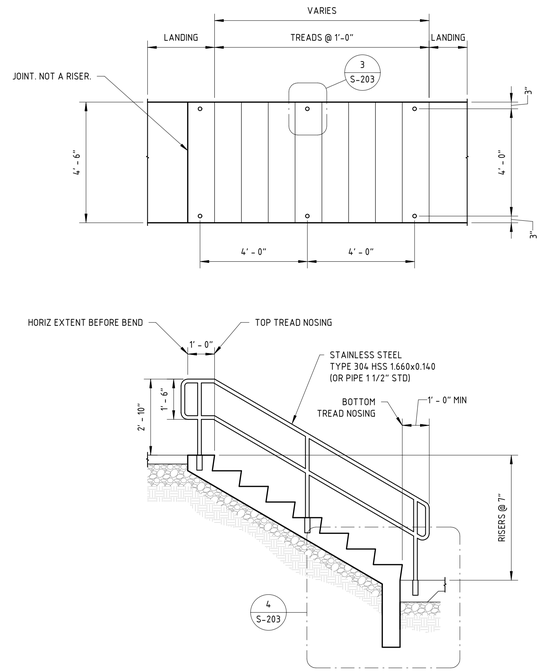
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WALKWAY ELEVATION

SHEET NUMBER:
S-202

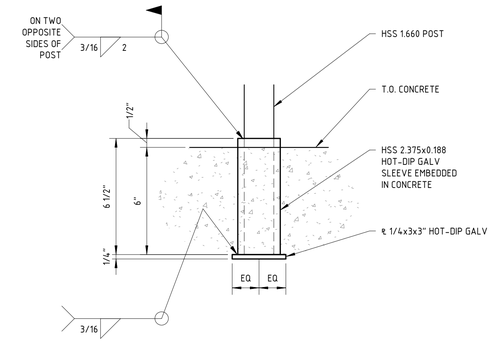
16 OF 36 SHEETS
04/29/2026



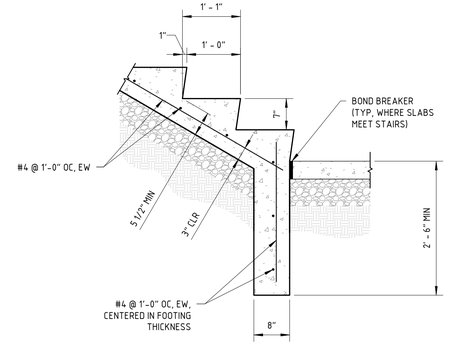
1 TYPICAL CONCRETE PILLAR
3/4" = 1'-0"



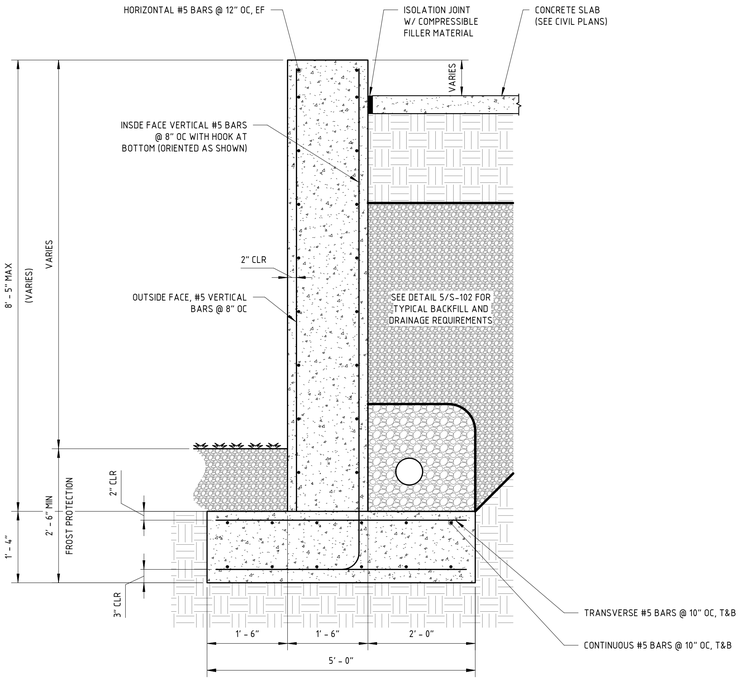
2 CONCRETE STAIR & HANDRAIL PLAN AND ELEVATION
3/8" = 1'-0"



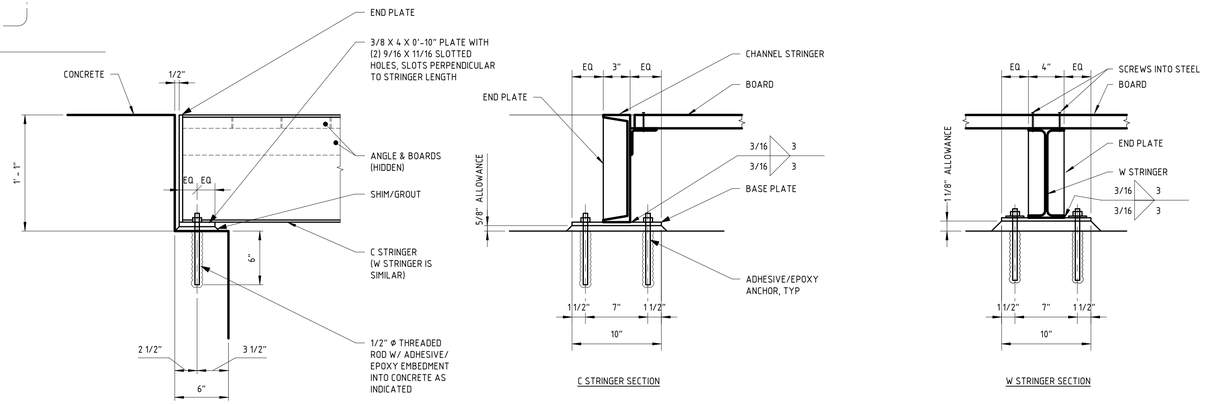
3 TYPICAL CAST-IN RAILING SLEEVE
3" = 1'-0"



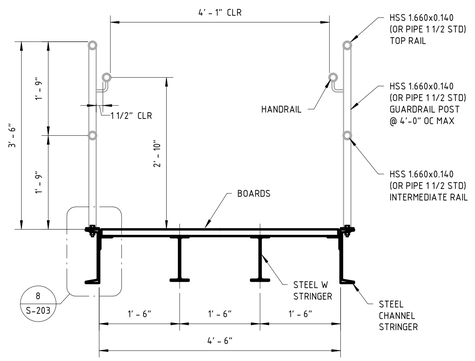
4 TYPICAL STAIR DETAIL
3/4" = 1'-0"



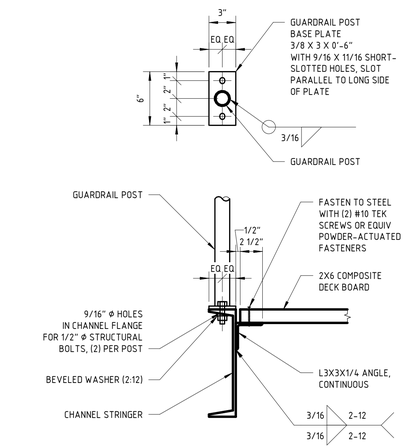
5 TYPICAL WALKWAY RETAINING WALL
3/4" = 1'-0"



6 STRINGER CONNECTIONS TO CONCRETE
1 1/2" = 1'-0"



7 WALKWAY TRANSVERSE SECTION
3/4" = 1'-0"



8 GUARDRAIL POST CONNECTION
1 1/2" = 1'-0"

STATE OF MISSOURI
MIKE KEHOE
GOVERNOR

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NUMBER PE-2017023852
PROFESSIONAL ENGINEER
04/29/2026

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DE SOTO, MO 63020-7000

PROJECT # X2337-01
SITE # 6775
ASSET #
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RESTROOM - SERVICE AREA #7815221011

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ISSUEDATE: April 29, 2026

CAD DWG FILE:
DRAWN BY: SAH
CHECKED BY: EWL
DESIGNED BY: SAH

SHEET TITLE:
STRUCTURAL DETAILS

SHEET NUMBER:
S-203

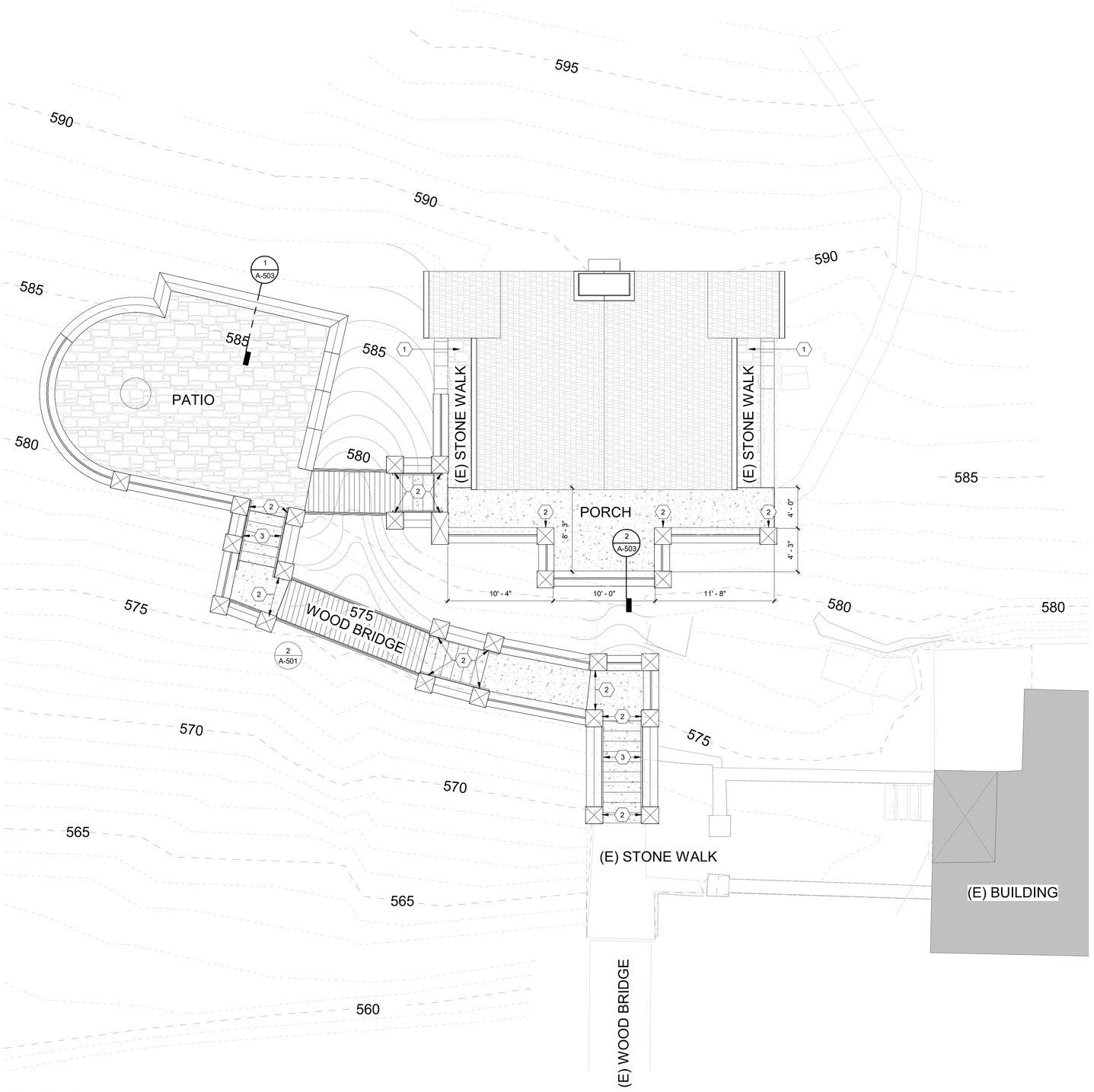
17 OF 36 SHEETS
04/29/2026

GENERAL NOTES - ARCHITECTURAL SITE PLAN

1. FOR GRADING AND SITE ITEMS COORDINATION, REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.

KEYED NOTES - ARCHITECTURAL SITE PLAN

1 EXISTING STONE WALK, PROTECT DURING CONSTRUCTION. RE-LAY ANY LOOSE STONES. CLEAN AND PROVIDE NEW GRANULAR SAND INFILL BETWEEN STONES.
2 SIDE MOUNTED PUCK LIGHTS AT COLUMNS - SEE ELECTRICAL FOR SPEC.
3 CONCRETE STAIR AND HAND RAIL.



1 A-001 ARCHITECTURAL SITE PLAN - THUNDERBIRD
3/16" = 1'-0"

PLAN NORTH TRUE NORTH

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

STATE OF MISSOURI
ROBERT WILSON WAGSTAFF
NUMBER A-7340
04/29/2024
REGISTERED ARCHITECT

ROBERT WILSON WAGSTAFF - ARCHITECT
MO# A-7340

STATE OF MISSOURI
ARCHITECTURAL CORPORATION
ORIGINAL CERTIFICATE/LICENSE
NO. 00609

PROFESSIONAL SEAL

core10 ARCHITECTURE
4501 Lindell Blvd, Suite 1a
Saint Louis, Missouri 63108
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DIVISION OF FACILITIES MANAGEMENT,
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WASHINGTON STATE PARK
13041 STATE HIGHWAY 104
DE SOTO, MISSOURI 63020-7000

PROJECT # X2337-01
SITE # 5221
ASSET #
RESTROOM - DAY USE AREA: 7815221007
RESTROOM - SERVICE AREA: 7815221011

REVISION:
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REVISION:
DATE:
REVISION:
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ISSUEDATE: April 29, 2026

CAD DWG FILE:
DRAWN BY: JB
CHECKED BY: RW
DESIGNED BY:

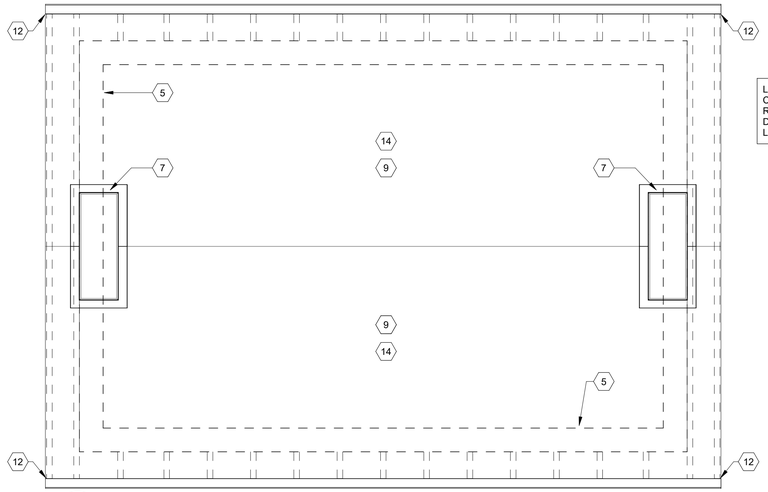
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ARCHITECTURAL SITE PLAN

SHEET NUMBER:

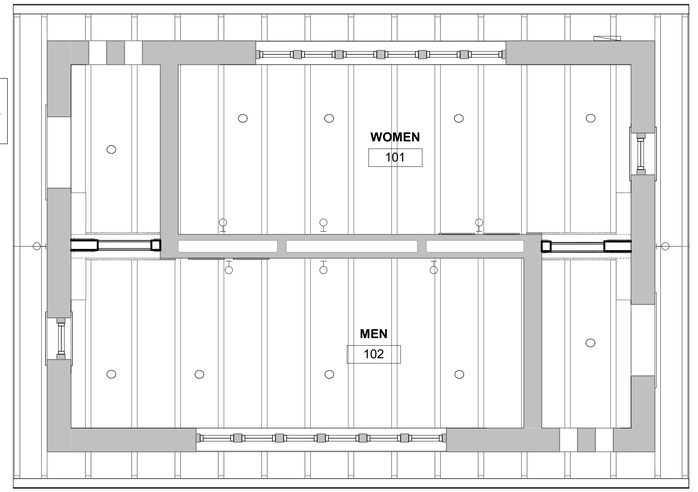
A-001

18 OF 36 SHEETS
04/29/26



PLAN NORTH | TRUE NORTH | 4 A-101 ROOF PLAN 1/4" = 1'-0"

LIGHT FOR COORDINATION ONLY. REFER TO ELECTRICAL DRAWINGS FOR LIGHTING DESIGN



PLAN NORTH | TRUE NORTH | 3 A-101 FIRST FLOOR REFLECTED CEILING PLAN 1/4" = 1'-0"

GENERAL NOTES - MASONRY RESTORATION

*** NOTE: ALL INTERIOR AND EXTERIOR LOCATIONS**

1. RE-POINTING OF THE AREAS WHERE LOOSE OR DETERIORATING MORTAR WILL BE DONE BY CLEANING THE EXISTING JOINTS OF MORTAR TO A DEPTH OF AT LEAST 3/4" OR 2.5 TIMES THE WIDTH OF THE JOINT, WHICHEVER IS MORE. EXISTING MORTAR TO BE REMOVED BY HAND METHODS. THE NEW MORTAR SHALL MATCH EXISTING HISTORIC MORTAR IN COLOR, TEXTURE, COMPOSITION MIX, AND JOINT PROFILE. THE MASON IS TO ADJUST THE MORTAR MIX TO A "HARDNESS" NO GREATER THEN THE MASONRY UNITS TO FACILITATE MOVEMENT. THE MASON WILL PROVIDE A TEST PATCH ON THE WALL FOR THE PURPOSES OF EXAMINING THE MORTAR COLOR AND MIX WHICH WILL BE REVIEWED BY THE ARCHITECT AND HISTORIC CONSULTANT TO ENSURE A MATCH. MASONRY DISCOLORATION AND EXCESS MORTAR TO BE GENTLY REMOVED BY HOT WATER LOW POWER WASH (< 20-100 PSI) WITH A LIGHT DUTY ORGANIC SOLVENT CLEANER EQUIVALENT TO PROSOCO SUREKLEAN. REPAIR OR REPLACE ANY DAMAGED MASONRY, OR STONE UNITS WITH UNITS TO MATCH IN SIZE, SHAPE, COLOR, AND TEXTURE.
2. STONE CLEANING SHOULD ADHERE TO NPS "PRESERVATION BRIEF 1: ASSESSING CLEANING AND WATER REPELLANT TREATMENTS FOR HISTORIC MASONRY BUILDINGS."
3. SAW CUT AND REMOVE EXISTING MASONRY FOR ANY REQUIRED ACCESS TO PLUMBING. RETAIN UNDAMAGED BRICK FOR RE-USE. REINSTALL EXISTING OR PROVIDE NEW THAT MATCHES INSIZE, SHAPE, AND FORM AFTER PLUMBING WORK IS COMPLETE, PAINT PER OWNER SELECTION.

LEGEND - DEMOLITION

- EXISTING PARTITION TO BE DEMOLISHED
- EXISTING PARTITION TO REMAIN
- EXISTING DOOR, FRAME, & HARDWARE TO REMAIN
- REMOVE EXISTING DOOR, FRAME & HARDWARE
- REMOVE EXISTING WINDOW, FRAME & SILL

NEW WORK LEGEND

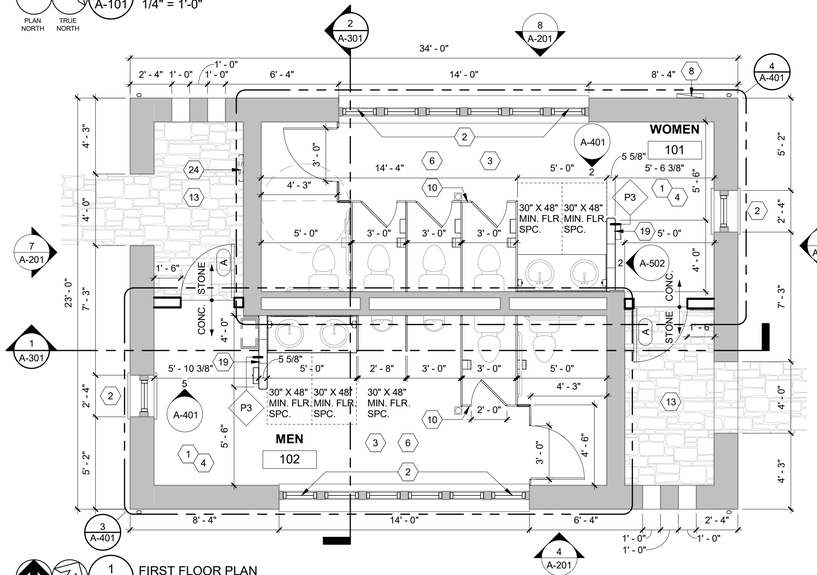
- TROWEL FINISHED CONCRETE FLOOR W/ INTEGRATED COLOR AS SELECTED
- PORCELAIN TILE AS SELECTED
- 1X BEADED BOX CAR SIDING WITH CLEAR FINISH
- NEW RAFTERS & DECK - PROVIDE ICE & WATER SHIELD OVER THE ENTIRE ROOF SECTION & LAP DOWN OVER SIDE WALLS & UNDER MAIN ROOF - PROVIDE NEW FASCIA AND GUTTER

REFLECTED CEILING PLAN LEGEND

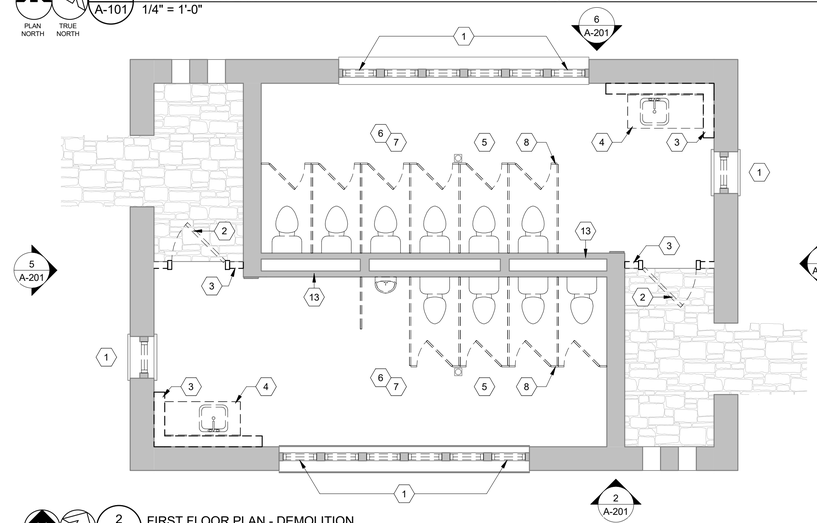
- AREA OF LOWERED CEILING (-1' - 0")
- VENT PATH
- GYPSUM BOARD CEILING (U.N.O.)

LIGHTING/ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
EQ EQ / EQ EQ	LOCATION OF CEILING MOUNTED FIXTURES AND EQUIPMENT (U.N.O.)
	RECESSED LIGHT FIXTURE
	EXHAUST FAN
	WALL MOUNTED LIGHT FIXTURE
	CEILING MOUNTED LIGHT FIXTURE
$	NEW/ RELOCATED SWITCH
$3	3-WAY SWITCH
	DUPLEX RECEPTACLE
GFI	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE
	QUADPLEX RECEPTACLE
SD	SMOKE DETECTOR
CMD	CARBON MONOXIDE DETECTOR



PLAN NORTH | TRUE NORTH | 1 A-101 FIRST FLOOR PLAN 1/4" = 1'-0"



PLAN NORTH | TRUE NORTH | 2 A-101 FIRST FLOOR PLAN - DEMOLITION 1/4" = 1'-0"

GENERAL NOTES - FLOOR PLANS

1. ALL INTERIOR WALLS ARE PARTITION TYPE 'P1', UNLESS NOTED OTHERWISE. REFER TO PARTITION TYPES ON SHEET A-601.
2. ALL INTERIOR WALL DIMENSIONS ARE TO FACE OF STUD, EXTERIOR WALLS INDICATE ENTIRE WALL SYSTEM AND ARE DIMENSIONED TO THE OUTSIDE OF STUD/CONCRETE FOUNDATION.
3. G.C. TO PROVIDE ARCHITECT WITH SHOP DRAWINGS PRIOR TO CONSTRUCTION ACCORDING TO PRODUCT LEGEND ON SHEET A0.1.
4. ALL LIGHTING AND ELECTRICAL/ DATA RECEPTACLES TO BE DETERMINED AND SELECTED BY THE OWNER.
5. WINDOW SIZES ARE SHOWN ON PLAN FOR INFORMATION AND INTENT. FINAL SIZES TO BE FIELD VERIFIED AND CONFIRMED WITH WINDOW MANUFACTURER. NOTIFY ARCHITECT OF DEVIATIONS .
6. INTERIOR FINISHES TO BE DETERMINED AND SELECTED BY OWNER. PORTION OF INTENDED FINISHES SHOWN FOR COORDINATION.
7. FINAL KITCHEN DESIGN, LAYOUT, AND CABINET STYLE TO BE COORDINATED WITH OWNER.

GENERAL NOTES - REFLECTED CEILING PLANS

1. ALL LIGHTS AND ELECTRICAL/ DATA RECEPTACLES TO BE DETERMINED AND SELECTED BY OWNER.
2. CONFIRM ALL LIGHT, SWITCH AND POWER LOCATIONS WITH OWNER.
3. ALL INTERIOR LIGHTING TO BE ON MOTION DETECTION.

KEYED NOTES - NEW FLOOR PLANS

1 EXPOSED STONE WALLS - CLEAN AND RESTORE AS REQUIRED. CLEAN PATCH AND REPAIR AS REQUIRED. REGROUT EXISTING JOINTS USING MORTAR TO MATCH EXISTING COLOR AND TEXTURE. HAND TOOL REMOVAL OF LOOSE EXISTING GROUT AND PROVIDE NEW TO MATCH COLOR TEXTURE, AND STYLE.
2 REFURBISHED WINDOW IN OPENING - SEE ELEV. FOR TYPE - ANY NEW WINDOW PIECES OR ELEMENTS TO BE REPLICATED WITHIN HISTORIC TOLERANCES EXISTING WINDOWS PRIME AND PAINT WHERE WOOD OCCURS - TO BE INSTALLED PER WINDOW MANUFACTURES SPECIFICATIONS. WHERE WINDOW IS TOO DAMAGED TO REFURBISH REPLICATE TO MATCH EXISTING.
3 EXISTING CONCRETE - CUT AS REQUIRED FOR NEW PLUMBING - PATCH FLUSH WITH EXISTING - PROVIDE EPOXY FINISH OVER ENTIRE FLOOR.
4 PROVIDE NEW ELECTRICAL OUTLETS, AND SWITCHES AND CONDUIT THROUGHOUT, REFER TO ELECTRICAL DRAWINGS
5 DASH LINE INDICATES EXTERIOR WALL BELOW.
6 NEW PLUMBING FIXTURES.
7 NEW METAL FLASHING.
8 ELECTRICAL SERVICE PANEL
9 BASE BID: ASPHALT SHINGLE ROOFING AND UNDERLAYMENT.
10 NEW TOILET PARTITIONS AND DOOR.
11 NEW DOOR WITHIN EXISTING OPENING
12 NEW GUTTER.
13 EXISTING STONE FLOOR - CLEAN & RE-GROUT AS REQUIRED.
14 ALTERNATE#1: SYNTHETIC SHAKE SHINGLE ROOFING AND UNDERLAYMENT.
15 WALL MOUNTED CONDENSER LOCATION. AVOID/COORDINATE WITH EXISTING WEATHER HEAD. SEE MECHANICAL DRAWINGS.
16 VAULTED CEILING. REFER TO ROOM FINISH SCHEDULE . SEE SPEC.
17 HOOD EXHAUST. COORDINATE LOCATION WITH MECHANICAL DRAWINGS.
18 RAIN SHOWER HEAD.
19 FREEZE-PROOF HOSE BIB, SEE PLUMBING DRAWINGS.
20 NEW 4" CONCRETE PAD.
21 BATT INSULATION BETWEEN RAFTERS
22 WALL MOUNTED SMOKE DETECTOR IN VAULT.
23 DOWNSPOUT WITH CLEANOUT .
24 ALTERNATE #4: RELOCATE ELECTRICAL SERVICE PANELTO ENTRY AT WOMEN'S RESTROOM.
25 PROVIDE CRYSTALINE SEALER AFTER STONE REPAIR WORK IS COMPLETE AT AREA OF STONE BELOW GRADE. SEE SPEC.

GENERAL NOTES - DEMOLITION:

1. REFERENCE DEMOLITION LEGEND AND KEYED NOTES FOR ITEMS SLATED FOR REMOVAL OR MODIFICATION.
2. REFERENCE M/E/P DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
3. CONTRACTOR TO TOUR ALL AREAS SLATED FOR DEMOLITION AND FIELD VERIFY EXISTING CONDITIONS PRIOR TO START OF DEMOLITION. REPORT TO ARCHITECT ANY DISCREPANCIES BETWEEN DEMOLITION DRAWINGS AND FIELD CONDITIONS.
4. EXPLORATORY DEMOLITION SHALL INCLUDE DEMOLITION AT THE REQUEST OF THE STRUCTURAL ENGINEER TO VERIFY CONDITION OF HIDDEN STRUCTURAL ELEMENTS.
5. CONTRACTOR SHALL ENCLOSE AREAS, PROVIDE CHUTES AND ANY RELATED CONSTRUCTION AS REQUIRED TO MINIMIZE THE IMPACT OF DUST AND DEBRIS AS A RESULT OF DEMOLITION WORK.
6. CONTRACTOR IS RESPONSIBLE FOR INSPECTING THE EXISTING BUILDING FOR HAZARDS THAT WOULD REQUIRE ENVIRONMENTAL REMEDIATION. CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY UPON DISCOVERY OF ANY HAZARDOUS MATERIAL.
7. CONTRACTOR TO ENSURE THAT ALL ELEMENTS AND FINISHES THAT ARE CALLED OUT TO REMAIN IN BUILDING ARE PROTECTED DURING DEMOLITION AND STORED ONSITE. CARE SHALL BE TAKEN TO AVOID UNDUE DAMAGE TO ADJACENT AREAS AND SURFACES. COORDINATE DEMOLITION WORK WITH NEW WORK SHOWN ELSEWHERE IN THE DRAWINGS.
8. OWNER TO HAVE FIRST SALVAGE RIGHTS ON ALL ITEMS. CONTRACTOR SHALL LEGALLY DISPOSE OF ALL ITEMS NOT TO BE REUSED IN PROJECT WHEREVER ANY DEMOLITION OCCURS.
9. REMOVE ALL MISCELLANEOUS NON-STRUCTURAL METAL STRAPS, PLATES, PIPES, BRACKETS AND ANCHORS FROM INTERIOR FACADE, WALLS AND CEILING.
10. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND PAYING FOR ANY NECESSARY PERMITS REQUIRED FOR DEMOLITION WORK.
11. CONTRACTOR TO ERECT BARRICADES THAT COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS AROUND ALL NEW AND EXISTING FLOOR PENETRATIONS.
12. CONTRACTOR TO IDENTIFY AREAS IN NEED OF STRUCTURAL REPAIR OR AREAS OF SLAB AND STRUCTURE THAT SHOW DETERIORATION. CONSULT WITH STRUCTURAL ENGINEER PRIOR TO REMOVING DAMAGED STEEL OR CONCRETE. NOTIFY ARCHITECT AND ENGINEER IF ANY NEW DAMAGE IS IDENTIFIED.
13. REFERENCE MECHANICAL, ELECTRICAL AND PLUMBING (MEP) DRAWINGS FOR DEMOLITION OF MEP ITEMS.
14. CONTRACTOR TO SHUTOFF/TERMINATE ALL WATER, ELECTRICAL, AND GAS SERVICES PRIOR TO BEGINNING DEMOLITION.
15. ALL EXISTING ROOF DRAINS/LINES TO REMAIN. CONTRACTOR TO IDENTIFY AND MAINTAIN ALL EXISTING ROOF DRAINS/LINES ON ALL FLOORS THROUGHOUT DEMOLITION.
16. SHORING/SUPPORTS TO BE PROVIDED AT ALL DEMOLITION LOCATIONS AS REQUIRED BY THE STRUCTURAL ENGINEER.
17. ALL STRUCTURAL COLUMNS, BEAMS, FLOOR/CEILING SLABS TO REMAIN EXCEPT WHERE INDICATED BY STRUCTURAL ENGINEER.
18. COORDINATE THE REMOVAL AND SALVAGING OF EXISTING EQUIPMENT WITH EQUIPMENT SCHEDULE.

KEYED NOTES - DEMOLITION

1 REMOVE EXISTING WINDOW AND RETAIN FOR REBUILD. HARVEST EXISTING GLASS AND WINDOW SASHES - EVALUATE CONDITION - IF SASH IS DETERIORATED AND WOOD IS SOFT - DISCARD APPROPREATLY. RETAIN GOOD WINDOWS/GLASS – STORE IN SAFE PLACE FOR REUSED. TAG WINDOW PER ORIGINAL OPENING FOR REINSTALLATION.
2 REMOVE EXISTING DOOR AND FRAME.
3 REMOVE EXISTING WALL / PARTITION, OR PORTION THEREOF AS INDICATED, TYP.
4 REMOVE ALL EXISTING CABINETRY AND COUNTERTOPS.
5 REMOVE ALL EXISTING PLUMBING FIXTURE, TYP.
6 REMOVE ELECTRICAL PANELS, OUTLETS, SWITCHES, AND CONDUIT THROUGHOUT; COORDINATE WITH ELECTRICAL DRAWINGS
7 REMOVE EXISTING CEILING AND LIGHTING FIXTURES.
8 REMOVE ALL EXISTING TOILET PARTITIONS AND DOORS, TYP.
9 REMOVE EXISTING CONCRETE STAIRS , SEE CIVIL DRAWINGS.
10 REMOVE EXISTING WOOD DECK, RAILING, AND POSTS. SEE CIVIL DRAWINGS.
11 REMOVE PORTION OF EXISTING STONE WALK. COORDINATE WITH NEW MECHANICAL ROOM. SEE MECHANICAL DRAWINGS.
12 REMOVE DOOR LEAF, DOOR FRAME TO REMAIN.
13 LIMITED DEMOLITION THIS AREA FOR ACCESS TO PLUMBING ROUGH-INS .
14 DASHED AREA INDICATES DEMOLISH/REMOVE EXIST. ROOF DECK & RAFTERS - REMOVE DAMAGED ROOF STRUCTURE AS REQUIRED - CLEAN & PREP AREA FOR NEW WORK

GENERAL NOTES - ROOF PLANS:

1. ALL NEW WORK SHALL MEET ALL APPLICABLE CODE AND ORDINANCE REQUIREMENTS. SEE COVER SHEET FOR APPLICABLE CODES.
2. SEE ELEVATIONS FOR DOWNSPOUT LOCATIONS.
3. ALL ROOF SLOPES ARE EXISTING.
4. ALL SHEET METAL PRODUCTS SHALL BE INSTALLED IN COMPLIANCE WITH THE GUIDELINES AND RECOMMENDATIONS PER THE CURRENT ADDITION OF THE SMACNA ARCHITECTURAL SHEET METAL MANUAL.
5. AT UNVENTED ATTIC ASSEMBLIES, AIR-IMPERMEABLE INSULATION AS DEFINED BY ASTM E 183 SHALL BE APPLIED IN DIRECT CONTACT WITH THE UNDERSIDE OF THE STRUCTURAL ROOF SHEATHING.

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

STATE OF MISSOURI ROBERT WILSON WAGSTAFF NUMBER A-7340 04/29/2024 REGISTERED ARCHITECT

ROBERT WILSON WAGSTAFF - ARCHITECT
MO# A-7340

STATE OF MISSOURI
ARCHITECTURAL CORPORATION
ORIGINAL CERTIFICATE/LICENSE
NO. 00659

PROFESSIONAL SEAL

core10 ARCHITECTURE
4501 Lindell Blvd, Suite 1a
Saint Louis, Missouri 63108
314.726.4858 CORE10architecture.com

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSCTRUCTION

DEPARTMENT OF NATURAL RESOURCES DIVISION OF STATE PARKS

PROJECT TITLE
UPDATE CCC RESTROOM AND RENOVATE CCC RESTROOM INTO CABIN

WASHINGTON STATE PARK
13041 STATE HIGHWAY 104
DE SOTO, MISSOURI 63020-7000

PROJECT # X2337-01
SITE # 5221
ASSET #
RESTROOM - DAY USE AREA: 7815221007
RESTROOM - SERVICE AREA: 7815221011

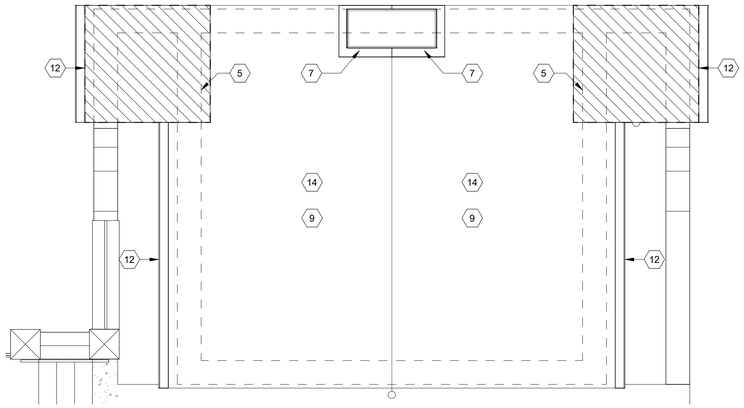
REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUEDATE: April 29, 2026

CAD DWG FILE:
DRAWN BY: JB
CHECKED BY: RW
DESIGNED BY:

SHEET TITLE:
BUG HOUSE - FLOOR PLANS

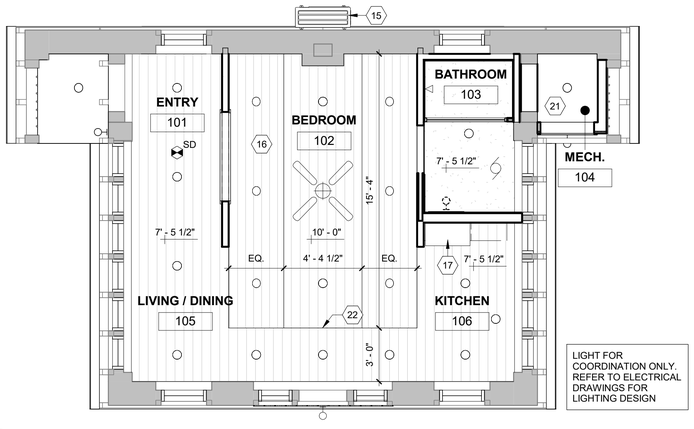
SHEET NUMBER:
A-101

19 OF 36 SHEETS
04/29/26



4 A-102 ROOF PLAN - THUNDERBIRD CABIN
1/4" = 1'-0"

PLAN NORTH TRUE NORTH



LIGHT FOR COORDINATION ONLY. REFER TO ELECTRICAL DRAWINGS FOR LIGHTING DESIGN

3 A-102 FIRST FLOOR REFLECTED CEILING PLAN
1/4" = 1'-0"

PLAN NORTH TRUE NORTH

GENERAL NOTES - MASONRY RESTORATION

*** NOTE: ALL INTERIOR AND EXTERIOR LOCATIONS**

1. RE-POINTING OF THE AREAS WHERE LOOSE OR DETERIORATING MORTAR WILL BE DONE BY CLEANING THE EXISTING JOINTS OF MORTAR TO A DEPTH OF AT LEAST 3/4" OR 2.5 TIMES THE WIDTH OF THE JOINT, WHICHEVER IS MORE. EXISTING MORTAR TO BE REMOVED BY HAND METHODS. THE NEW MORTAR SHALL MATCH EXISTING HISTORIC MORTAR IN COLOR, TEXTURE, COMPOSITION MIX, AND JOINT PROFILE. THE MASON IS TO ADJUST THE MORTAR MIX TO A "HARDNESS" NO GREATER THEN THE MASONRY UNITS TO FACILITATE MOVEMENT. THE MASON WILL PROVIDE A TEST PATCH ON THE WALL FOR THE PURPOSES OF EXAMINING THE MORTAR COLOR AND MIX WHICH WILL BE REVIEWED BY THE ARCHITECT AND HISTORIC CONSULTANT TO ENSURE A MATCH. MASONRY DISCOLORATION AND EXCESS MORTAR TO BE GENTLY REMOVED BY HOT WATER LOW POWER WASH (< 20-100 PSI) WITH A LIGHT DUTY ORGANIC SOLVENT CLEANER EQUIVALENT TO PROSOCO SUREKLEAN. REPAIR OR REPLACE ANY DAMAGED MASONRY, OR STONE UNITS WITH UNITS TO MATCH IN SIZE, SHAPE, COLOR, AND TEXTURE.
2. STONE CLEANING SHOULD ADHERE TO NPS "PRESERVATION BRIEF 1: ASSESSING CLEANING AND WATER REPELLANT TREATMENTS FOR HISTORIC MASONRY BUILDINGS."
3. SAW CUT AND REMOVE EXISTING MASONRY FOR ANY REQUIRED ACCESS TO PLUMBING. RETAIN UNDAMAGED BRICK FOR RE-USE. REINSTALL EXISTING OR PROVIDE NEW THAT MATCHES INSIZE, SHAPE, AND FORM AFTER PLUMBING WORK IS COMPLETE, PAINT PER OWNER SELECTION.

LEGEND - DEMOLITION

- EXISTING PARTITION TO BE DEMOLISHED
- EXISTING PARTITION TO REMAIN
- EXISTING DOOR, FRAME, & HARDWARE TO REMAIN
- REMOVE EXISTING DOOR, FRAME & HARDWARE
- REMOVE EXISTING WINDOW, FRAME & SILL

LIGHTING/ELECTRICAL LEGEND

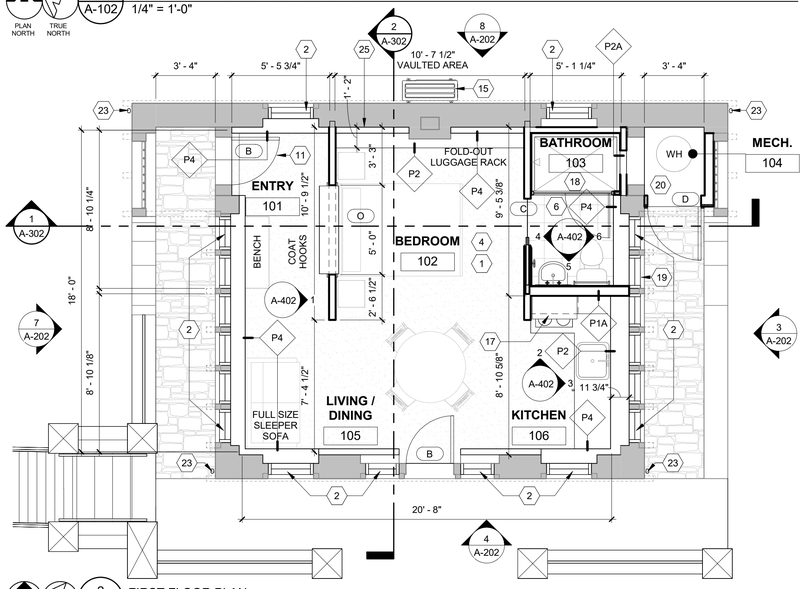
SYMBOL	DESCRIPTION
EQ EQ / EQ	LOCATION OF CEILING MOUNTED FIXTURES AND EQUIPMENT (U.N.O.)
	RECESSED LIGHT FIXTURE
	EXHAUST FAN
	WALL MOUNTED LIGHT FIXTURE
	CEILING MOUNTED LIGHT FIXTURE
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	DUPLEX RECEPTACLE
GFI	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE
	QUADPLEX RECEPTACLE
SD	SMOKE DETECTOR
CMD	CARBON MONOXIDE DETECTOR

NEW WORK LEGEND

- TROWEL FINISHED CONCRETE FLOOR W/ INTEGRATED COLOR AS SELECTED
- PORCELAIN TILE AS SELECTED
- 1X BEADED BOX CAR SIDING WITH CLEAR FINISH
- NEW RAFTERS & DECK - PROVIDE ICE & WATER SHIELD OVER THE ENTIRE ROOF SECTION & LAP DOWN OVER SIDE WALLS & UNDER MAIN ROOF - PROVIDE NEW FASCIA AND GUTTER

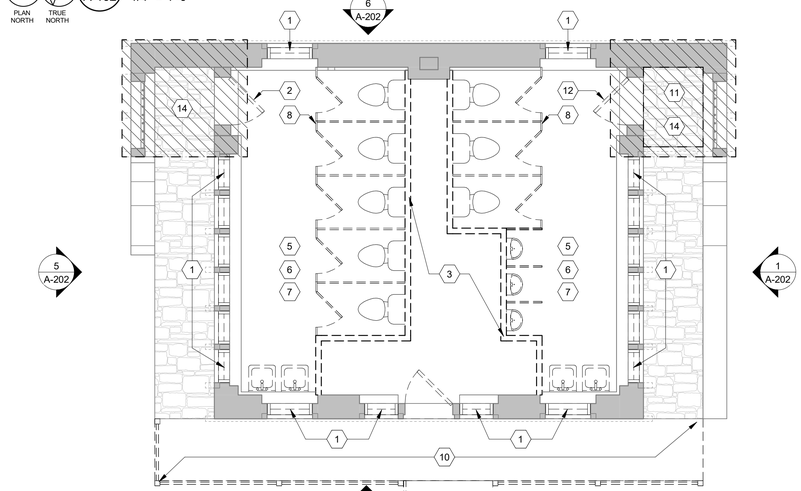
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- AREA OF LOWERED CEILING (-1' - 0")
- VENT PATH
- GYPSUM BOARD CEILING (U.N.O.)



2 A-102 FIRST FLOOR PLAN
1/4" = 1'-0"

PLAN NORTH TRUE NORTH



1 A-102 FIRST FLOOR PLAN - DEMOLITION
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4 PROVIDE NEW ELECTRICAL OUTLETS, AND SWITCHES AND CONDUIT THROUGHOUT, REFER TO ELECTRICAL DRAWINGS

5 DASH LINE INDICATES EXTERIOR WALL BELOW.

6 NEW PLUMBING FIXTURES.

7 NEW METAL FLASHING.

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9 BASE BID: ASPHALT SHINGLE ROOFING AND UNDERLAYMENT.

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4 REMOVE ALL EXISTING CABINETRY AND COUNTERTOPS.

5 REMOVE ALL EXISTING PLUMBING FIXTURE, TYP.

6 REMOVE ELECTRICAL PANELS, OUTLETS, SWITCHES, AND CONDUIT THROUGHOUT; COORDINATE WITH ELECTRICAL DRAWINGS

7 REMOVE EXISTING CEILING AND LIGHTING FIXTURES.

8 REMOVE ALL EXISTING TOILET PARTITIONS AND DOORS, TYP.

9 REMOVE EXISTING CONCRETE STAIRS , SEE CIVIL DRAWINGS.

10 REMOVE EXISTING WOOD DECK, RAILING, AND POSTS. SEE CIVIL DRAWINGS.

11 REMOVE PORTION OF EXISTING STONE WALK. COORDINATE WITH NEW MECHANICAL ROOM. SEE MECHANICAL DRAWINGS.

12 REMOVE DOOR LEAF, DOOR FRAME TO REMAIN.

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STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

STATE OF MISSOURI ROBERT WILSON WAGSTAFF NUMBER A-7340 04/29/2026 REGISTERED ARCHITECT

ROBERT WILSON WAGSTAFF - ARCHITECT
MO# A-7340

STATE OF MISSOURI
ARCHITECTURAL CORPORATION
ORIGINAL CERTIFICATE/LICENSE
NO. 000639

PROFESSIONAL SEAL

core10 ARCHITECTURE
4501 Lindell Blvd, Suite 1a
Saint Louis, Missouri 63108
314.726.4858 CORE10architecture.com

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSCTRUCTION

DEPARTMENT OF NATURAL RESOURCES DIVISION OF STATE PARKS

PROJECT TITLE
UPDATE CCC RESTROOM AND RENOVATE CCC RESTROOM INTO CABIN

WASHINGTON STATE PARK
13041 STATE HIGHWAY 104
DE SOTO, MISSOURI 63020-7000

PROJECT # X2337-01
SITE # 5221
ASSET #
RESTROOM - DAY USE AREA: 7815221007
RESTROOM - SERVICE AREA: 7815221011

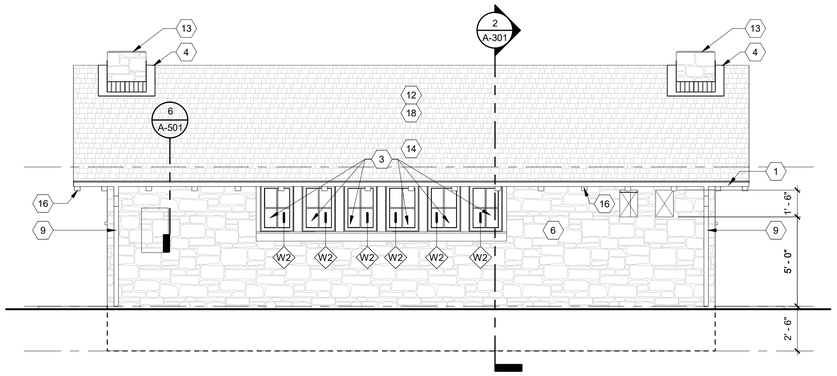
REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUEDATE: April 29, 2026

CAD DWG FILE:
DRAWN BY: JB
CHECKED BY: RW
DESIGNED BY:

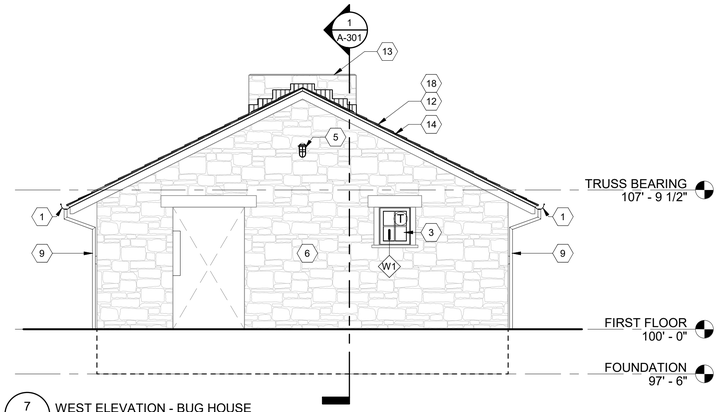
SHEET TITLE:
THUNDERBIRD - FLOOR PLANS

SHEET NUMBER:
A-102

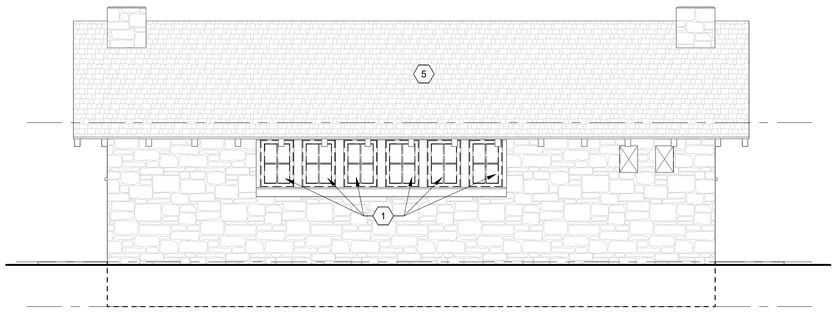
20 OF 36 SHEETS
04/29/26



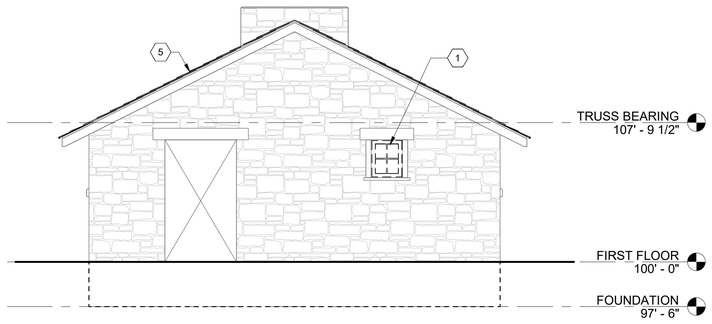
8 A-201 NORTH ELEVATION - BUG HOUSE
1/4" = 1'-0"



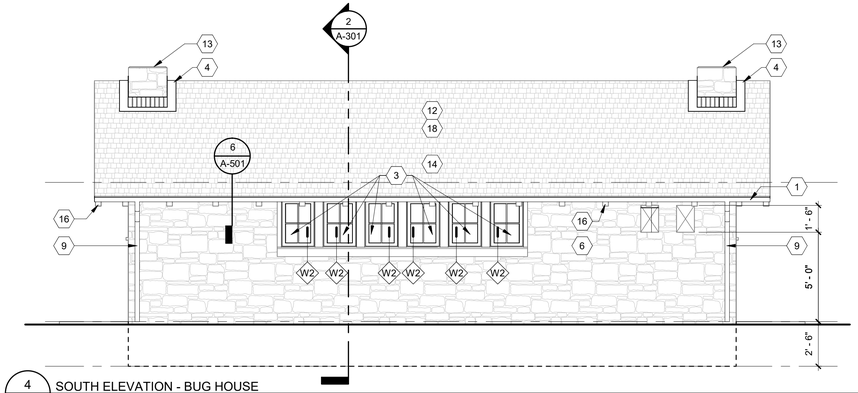
7 A-201 WEST ELEVATION - BUG HOUSE
1/4" = 1'-0"



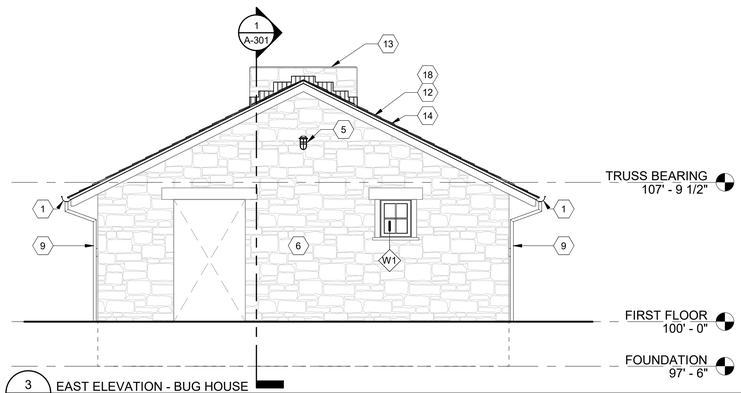
6 A-201 NORTH ELEVATION - BUG HOUSE - DEMOLITION
1/4" = 1'-0"



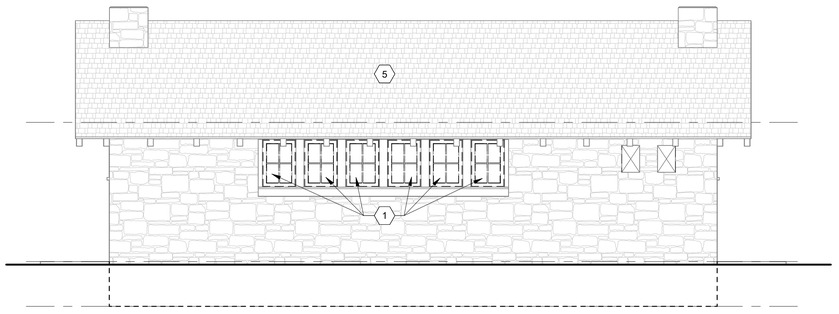
5 A-201 WEST ELEVATION - BUG HOUSE - DEMOLITION
1/4" = 1'-0"



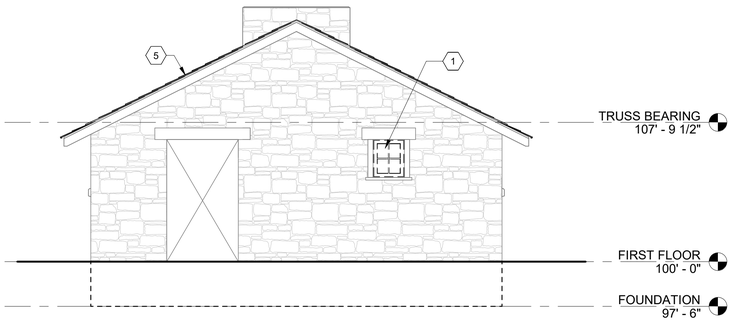
4 A-201 SOUTH ELEVATION - BUG HOUSE
1/4" = 1'-0"



3 A-201 EAST ELEVATION - BUG HOUSE
1/4" = 1'-0"



2 A-201 SOUTH ELEVATION - BUG HOUSE - DEMOLITION
1/4" = 1'-0"



1 A-201 EAST ELEVATION - BUG HOUSE - DEMOLITION
1/4" = 1'-0"

KEYED NOTES - EXTERIOR ELEVATIONS

1 NEW 6" HALF ROUND EXTENDED FLANGE GUTTER, RUE BACK TO RAFTER TAILS. FLASH W/ DRIP AT ROOF TRANSITION.
2 PROVIDE CRYSTALINE WATERPROOFING AFTER STONE REPAIR WORK IS COMPLETE AT AREA OF STONE BELOW GRADE. SEE SPEC.
3 REFURBISHED WINDOW IN OPENING - SEE ELEV. FOR TYPE - ANY NEW WINDOW PIECES OR ELEMENTS TO BE REPLICATED WITHIN HISTORIC TOLERANCES EXISTING WINDOWS PRIME AND PAINT WHERE WOOD OCCURS - TO BE INSTALLED PER WINDOW MANUFACTURES SPECIFICATIONS. WHERE WINDOW IS TOO DAMAGED TO REFURBISH REPLICATE TO MATCH EXISTING.
4 NEW SHEET METAL FLASHING OVER ICE AND WATER SHIELD.
5 NEW PHOTOVOLTAIC EXTERIOR LIGHT FIXTURE SELECTED BY OWNER.
6 REPOINT EXISTING STONE AS REQUIRED.
7 SPANDREL GLASS.
8 EXISTING SPINDLES AND FRAME. REPLICATE NEW IN SIZE, SHAPE, AND FORM, MOUNTED IN NEW WOOD FRAME.
9 NEW PRE-FINISHED ROUND DOWNSPOUT WITH CLEANOUT, COCOA BROWN. DRAIN TO FRENCH DRAINS, COORDINATE WITH CIVIL DRAWINGS.
10 CLEAN AND RESTORE EXISTING DOORS WITH NEW HARDWARE, PATCH AND REPAIR AS REQUIRE. MATCH ALL EXISTING PROFILES.
11 WALL MOUNTED CONDENSER LOCATION. AVOID/COORDINATE WITH EXISTING WEATHER HEAD. SEE MECHANICAL DRAWINGS.
12 BASE BID: ASPHALT SHINGLE ROOFING AND UNDERLAYMENT.
13 NEW METAL CHIMNEY CAP.
14 NEW WEATHER BARRIER OVER EXISTING SUBSTRATE.
15 PRE- FINISHED STEPPED METAL FLASHING.
16 EXISTING RAFTER TAILS. EVALUATE CONDITIONS, PATCH AND PAINT AMD STABILIZE ANY WOOD TOO DAMAGED TO REPAIR. REPLICATE ANY REPLACED PIECE IN SIZE, SHAPE, AND FORM. PRIME AND PAINT COLOR AS SELECTED.
17 EXISTING EXTERIOR WOOD. PATCH, REPAIR, AND STABILIZE EXISTING SOFT SPOTS. PRIME AND PAINT AS REQUIRED, COLOR AS SELECTED.
18 ALTERNATE#1: SYNTHETIC SHINGLE ROOFING AND UNDERLAYMENT.

KEYED NOTES - DEMOLITION ELEVATIONS

1 REMOVE WINDOW. ALL HARVESTED PATTERENED GLASS TO BE REUSED AT "THE BUGHOUSE" ALL NEW GLASS AT BUGHOUSE TO BE PATTERENED TO MATCH EXISTING HARVESTED. ALL GLASS TO BE SINGLE PANE.
2 REMOVE EXISTING METAL FLASHING, PREP FOR NEW WORK.
3 REMOVE EXISTING CONCRETE STAIR, SEE CIVIL DRAWINGS.
4 REMOVE EXISTING WOOD DECK, RAILING, AND POSTS. SEE CIVIL DRAWINGS.
5 REMOVE ALL EXISTING ROOF SHINGLES AND UNDERLAYMENT, AS REQUIRED.
6 REMOVE EXISTING WEATHER HEAD AND ELECTRICAL CONNECTION. SEE ELECTRICAL DRAWINGS FOR NEW UNDERGROUND CONNECTION LOCATION.

EXTERIOR MATERIALS LEGEND

STONE VENEER
TRIM/ PANEL
ARCHITECTURAL SHINGLE
CONCRETE
T TEMPERED

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

STATE OF MISSOURI ROBERT WILSON WAGSTAFF NUMBER A-7340 04/29/2024 REGISTERED ARCHITECT

ROBERT WILSON WAGSTAFF - ARCHITECT
MO# A-7340

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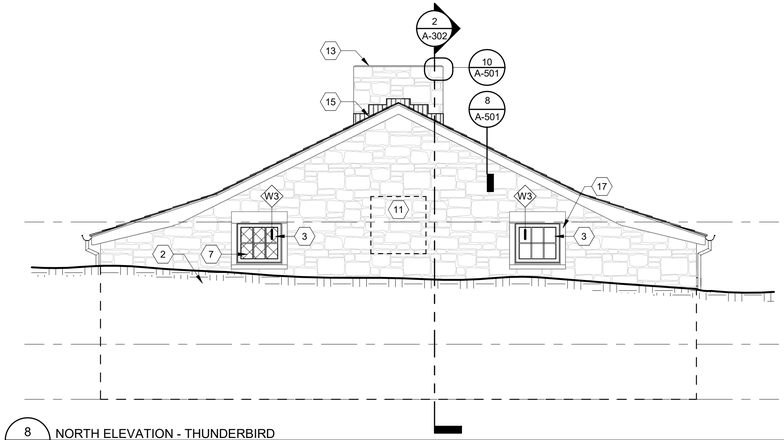
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DATE:
ISSUEDATE: April 29, 2026

CAD DWG FILE:
DRAWN BY: JB
CHECKED BY: RW
DESIGNED BY:

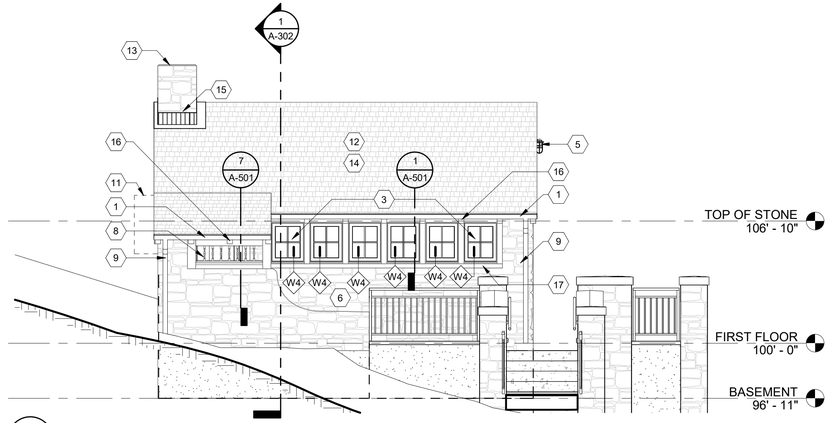
SHEET TITLE:
BUG HOUSE - EXTERIOR ELEVATIONS

SHEET NUMBER:
A-201

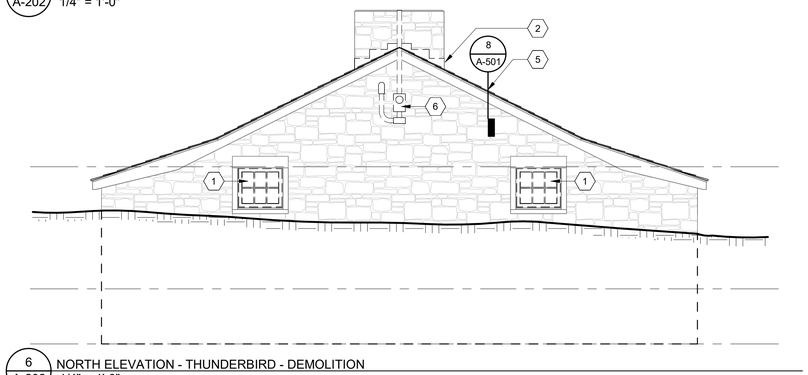
21 OF 36 SHEETS
04/29/26



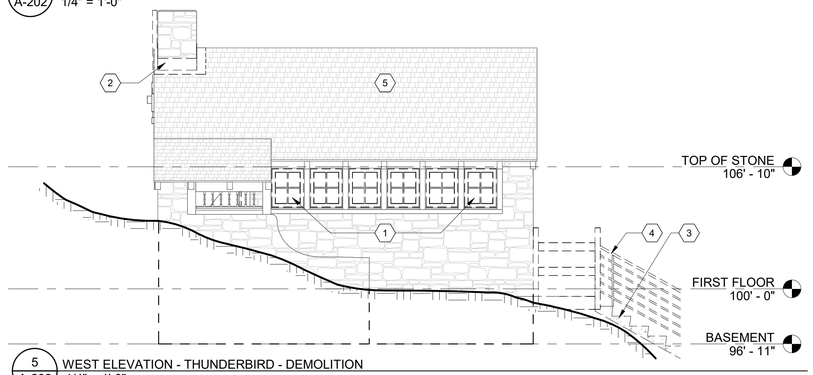
8 A-202 NORTH ELEVATION - THUNDERBIRD
1/4" = 1'-0"



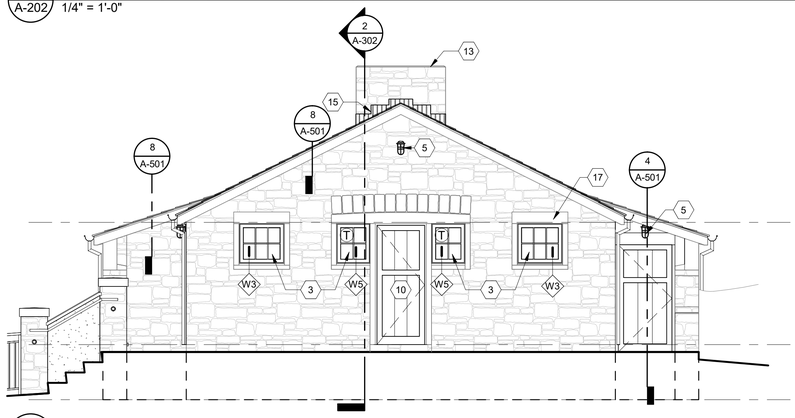
7 A-202 WEST ELEVATION - THUNDERBIRD
1/4" = 1'-0"



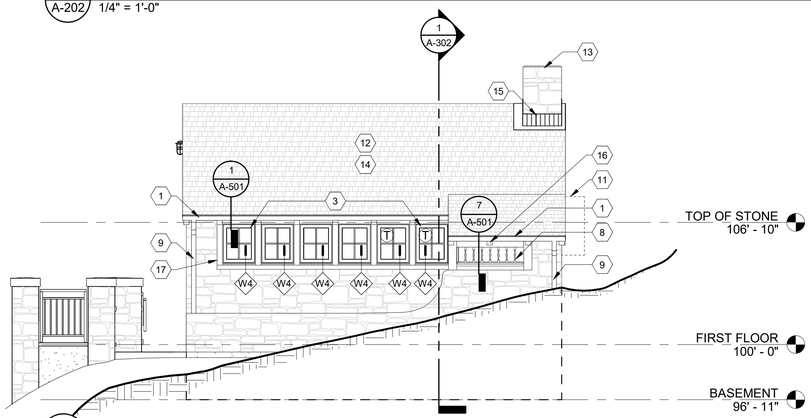
6 A-202 NORTH ELEVATION - THUNDERBIRD - DEMOLITION
1/4" = 1'-0"



5 A-202 WEST ELEVATION - THUNDERBIRD - DEMOLITION
1/4" = 1'-0"



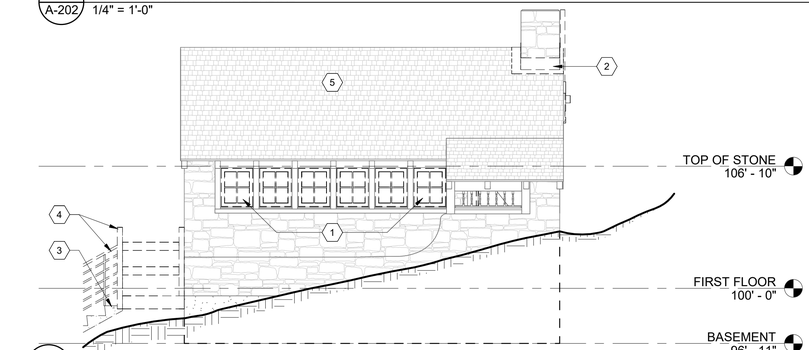
4 A-202 SOUTH ELEVATION - THUNDERBIRD
1/4" = 1'-0"



3 A-202 EAST ELEVATION - THUNDERBIRD
1/4" = 1'-0"



2 A-202 SOUTH ELEVATION - THUNDERBIRD - DEMOLITION
1/4" = 1'-0"



1 A-202 EAST ELEVATION- THUNDERBIRD - DEMOLITION
1/4" = 1'-0"

KEYED NOTES - EXTERIOR ELEVATIONS

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EXTERIOR MATERIALS LEGEND

STONE VENEER
TRIM/ PANEL
ARCHITECTURAL SHINGLE
CONCRETE
(T) TEMPERED

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

STATE OF MISSOURI ROBERT WILSON WAGSTAFF NUMBER A-7340 04/29/2024 REGISTERED ARCHITECT

ROBERT WILSON WAGSTAFF - ARCHITECT
MO# A-7340

STATE OF MISSOURI
ARCHITECTURAL CORPORATION
ORIGINAL CERTIFICATE/LICENSE
NO. 00659

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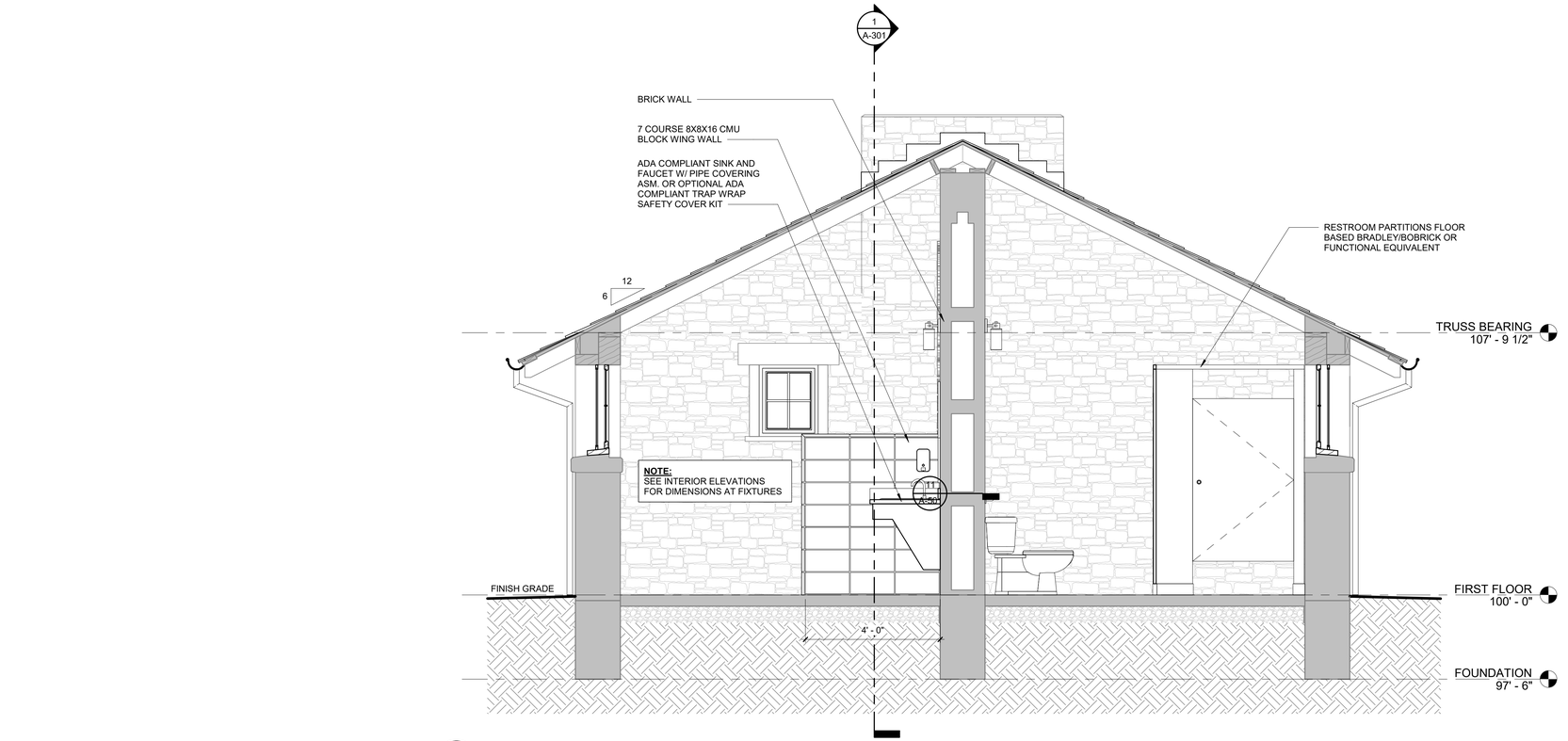
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ISSUEDATE: April 29, 2026

CAD DWG FILE:
DRAWN BY: JB
CHECKED BY: RW
DESIGNED BY:

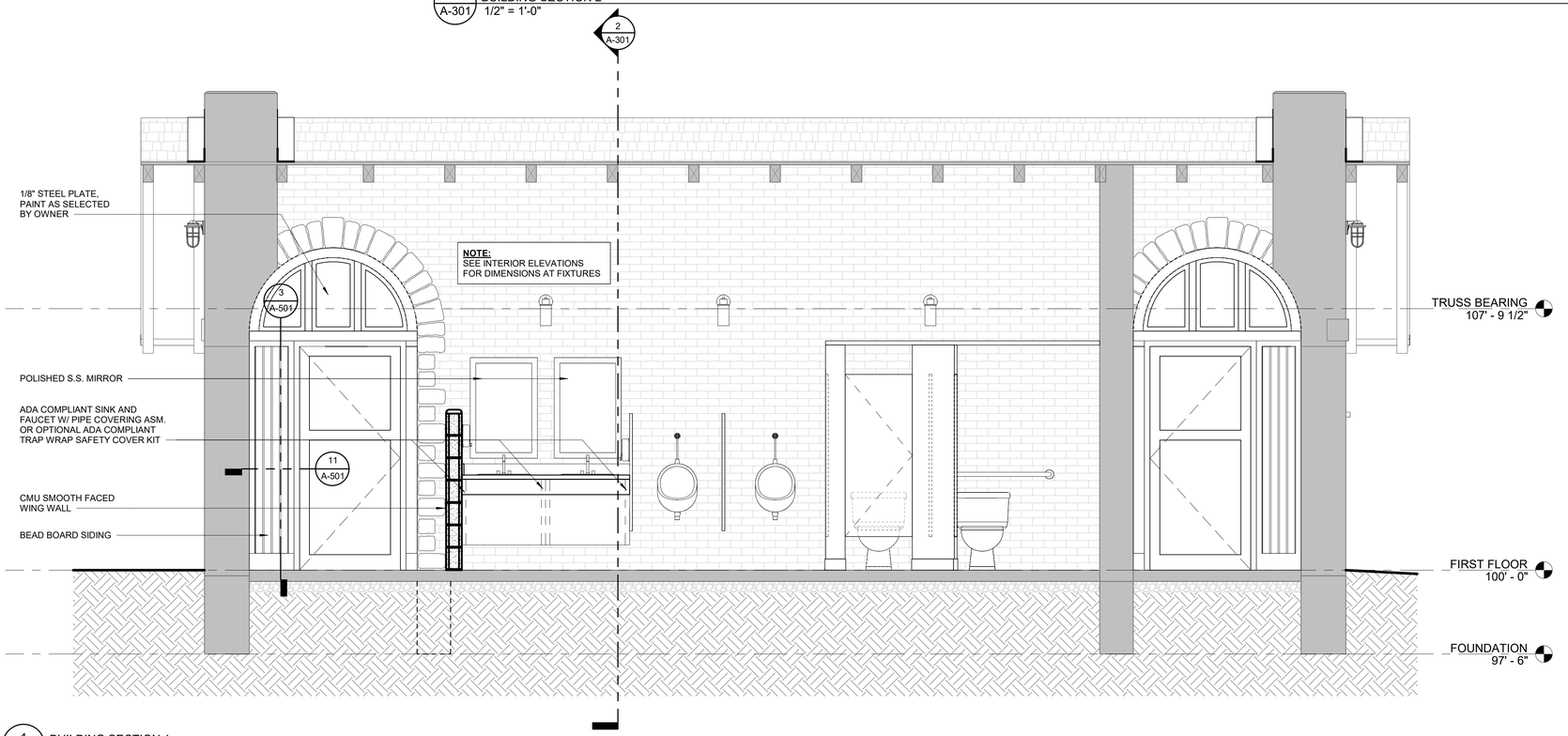
SHEET TITLE:
THUNDERBIRD - EXTERIOR ELEVATIONS

SHEET NUMBER:
A-202

22 OF 36 SHEETS
04/29/26



2 A-301 BUILDING SECTION 2
1/2" = 1'-0"



1 A-301 BUILDING SECTION 1
1/2" = 1'-0"

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

STATE OF MISSOURI
ROBERT WILSON WAGSTAFF
NUMBER A-7340
04/29/2024
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ROBERT WILSON WAGSTAFF - ARCHITECT
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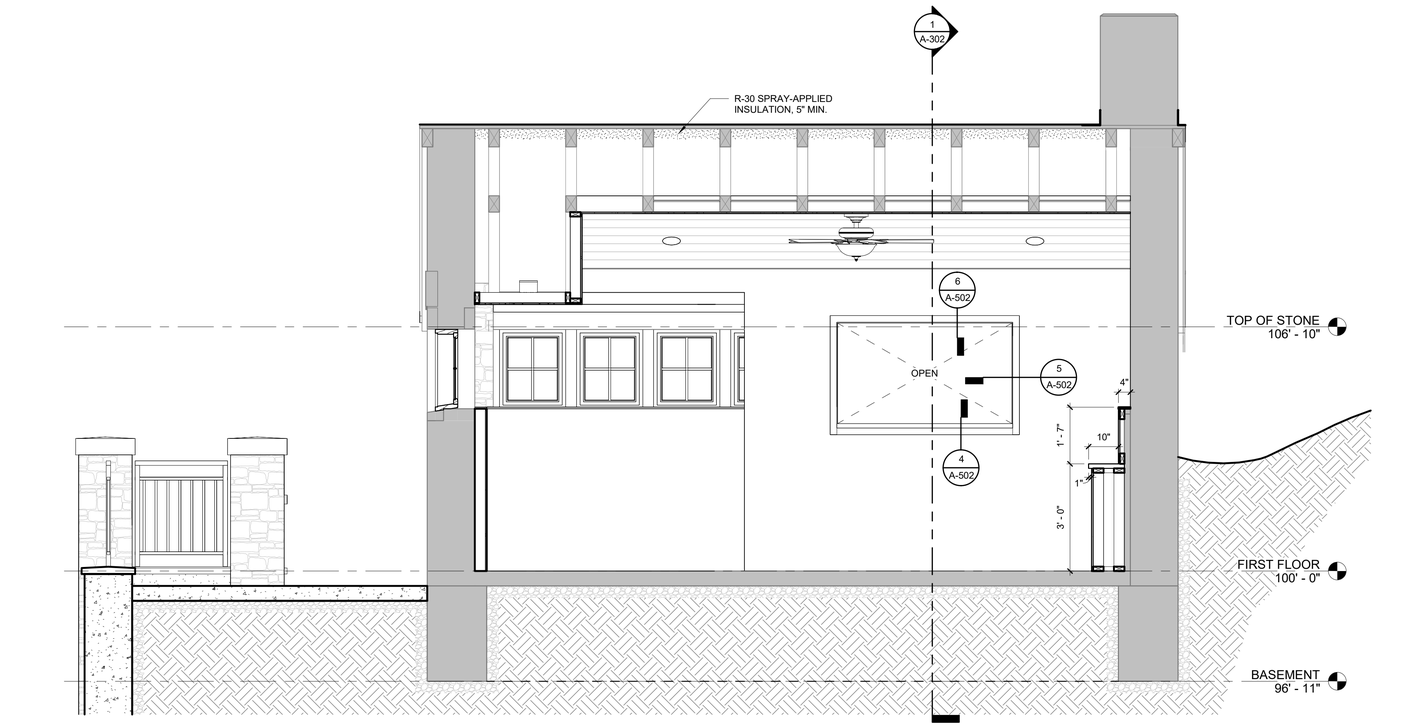
SHEET TITLE:

BUILDING SECTIONS -
BUGHOUSE

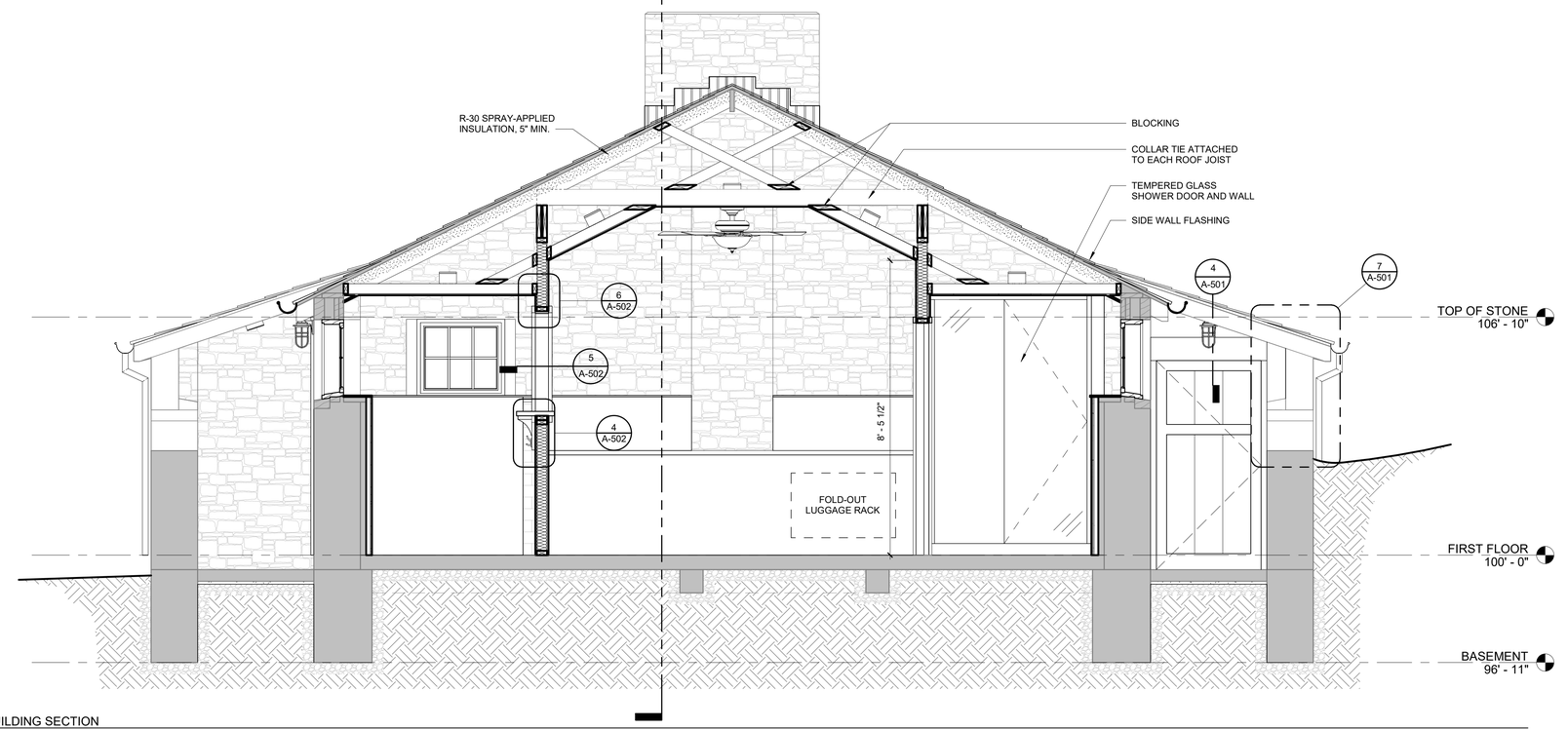
SHEET NUMBER:

A-301

23 OF 36 SHEETS
04/29/26



2 A-302 BUILDING SECTION
1/2" = 1'-0"



1 A-302 BUILDING SECTION
1/2" = 1'-0"

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

STATE OF MISSOURI
ROBERT WILSON WAGSTAFF
NUMBER
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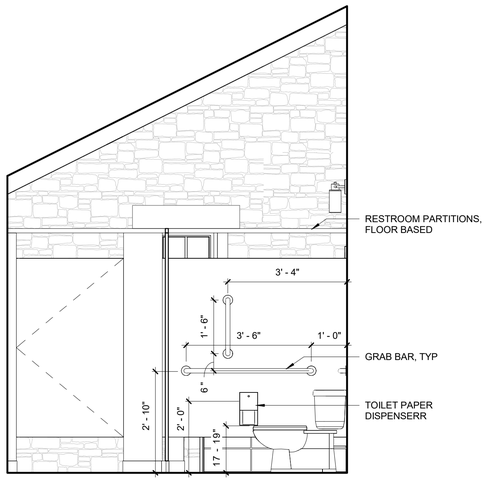
SHEET TITLE:

BUILDING SECTIONS -
THUNDERBIRD CABIN

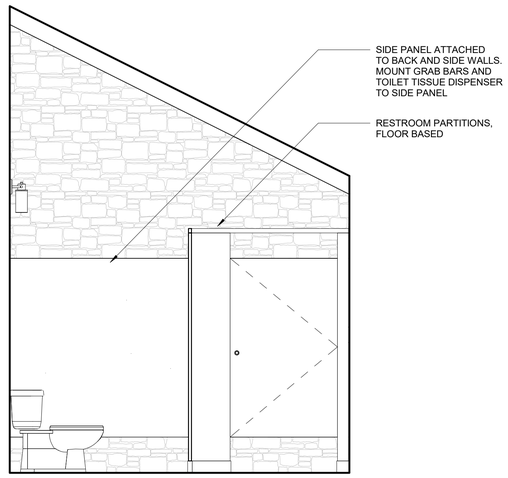
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A-302

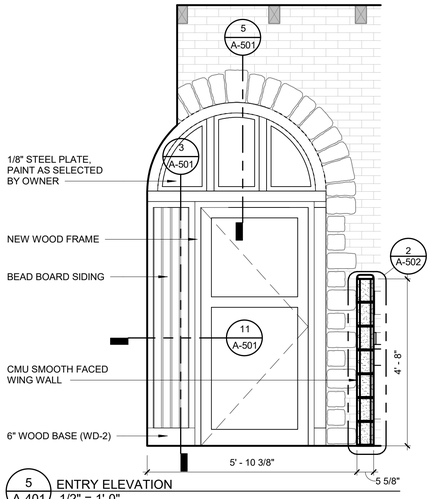
24 OF 36 SHEETS
04/29/26



7 A-401 TYPICAL TOILET STALL ELEVATION
1/2" = 1'-0"



6 A-401 TYPICAL TOILET STALL ELEVATION
1/2" = 1'-0"



5 A-401 ENTRY ELEVATION
1/2" = 1'-0"

GENERAL NOTES - FLOOR PLANS

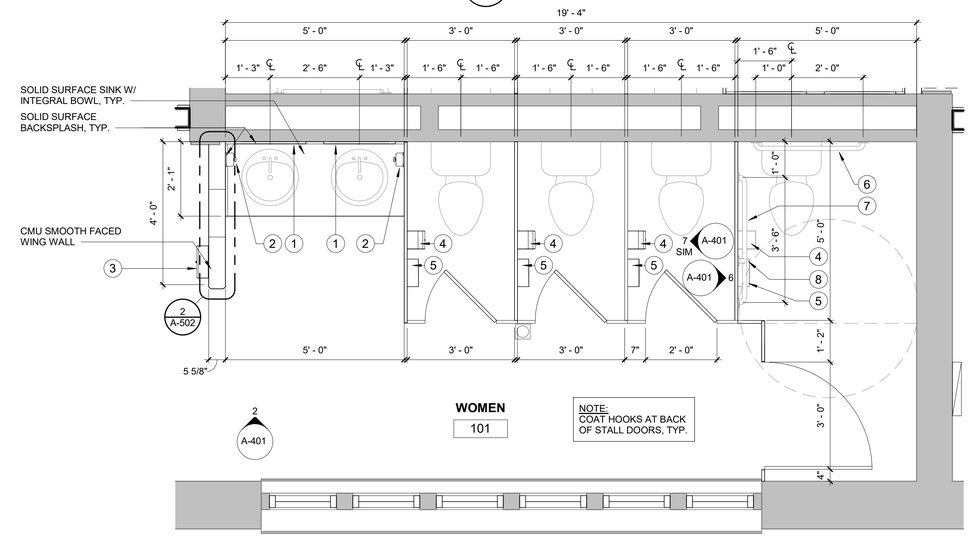
1. ALL INTERIOR WALLS ARE PARTITION TYPE 'P1', UNLESS NOTED OTHERWISE. REFER TO PARTITION TYPES ON SHEET A-601.
2. ALL INTERIOR WALL DIMENSIONS ARE TO FACE OF STUD, EXTERIOR WALLS INDICATE ENTIRE WALL SYSTEM AND ARE DIMENSIONED TO THE OUTSIDE OF STUD/CONCRETE FOUNDATION.
3. G.C. TO PROVIDE ARCHITECT WITH SHOP DRAWINGS PRIOR TO CONSTRUCTION ACCORDING TO PRODUCT LEGEND ON SHEET A0.1.
4. ALL LIGHTING AND ELECTRICAL/ DATA RECEPTACLES TO BE DETERMINED AND SELECTED BY THE OWNER.
5. WINDOW SIZES ARE SHOWN ON PLAN FOR INFORMATION AND INTENT. FINAL SIZES TO BE FIELD VERIFIED AND CONFIRMED WITH WINDOW MANUFACTURER. NOTIFY ARCHITECT OF DEVIATIONS .
6. INTERIOR FINISHES TO BE DETERMINED AND SELECTED BY OWNER. PORTION OF INTENDED FINISHES SHOWN FOR COORDINATION.
7. FINAL KITCHEN DESIGN, LAYOUT, AND CABINET STYLE TO BE COORDINATED WITH OWNER.

RESTROOM ACCESSORIES LEGEND

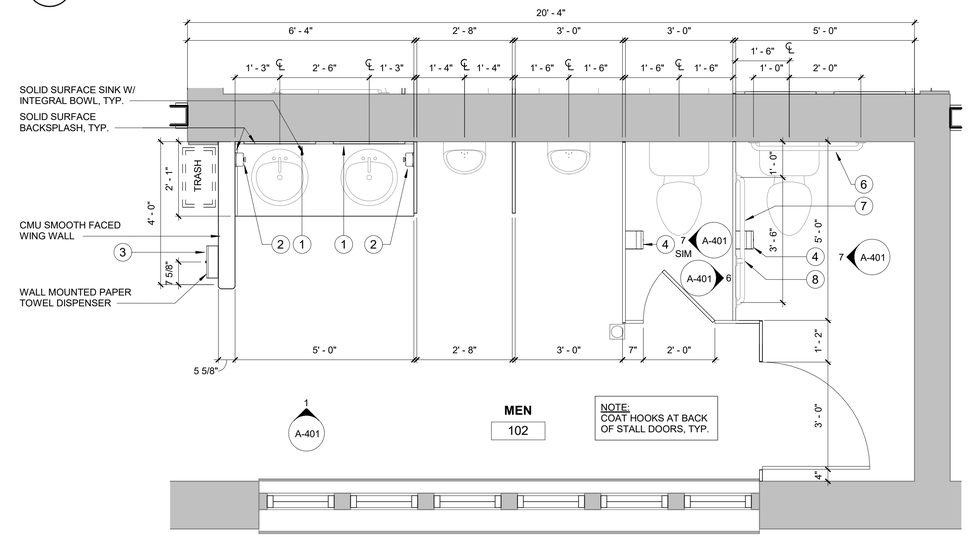
(BOBRICK OR ARCHITECT APPROVED EQUAL)

1. MIRROR: B-165-2436
2. SOAP DISPENSER: B-2111
3. PAPER TOWEL DISPENSER: B-262
4. TOILET PAPER HOLDER: B-2888
5. SANITARY NAPKIN DISPOSAL: B-270
6. GRAB BARS: B-6806-36
7. GRAB BARS: B-6806-42
8. GRAB BAR: B-6806-18

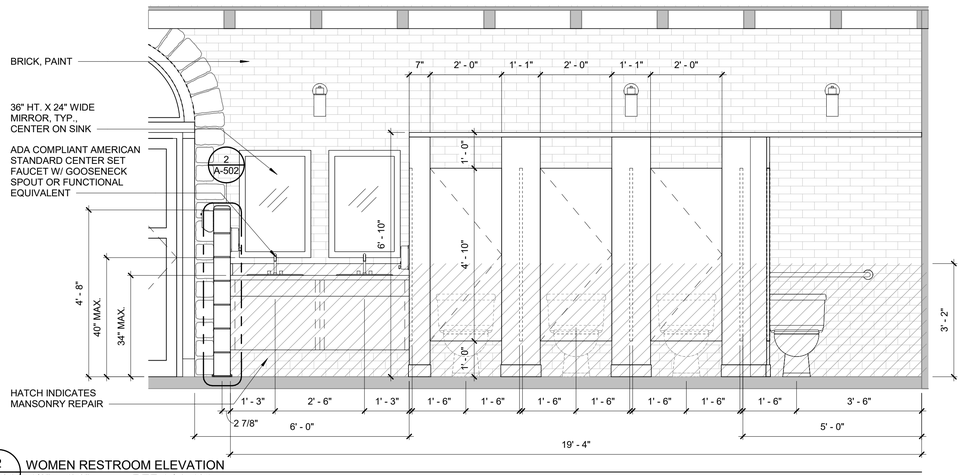
NOTE: ALL ACCESSORIES SHALL BE MOUNTED AT ADA HEIGHTS, CONSULT PRODUCT INSTALLATION INSTRUCTIONS FOR MOUNTING HEIGHTS . PROVIDE FIRE TREATED WOOD BLOCKING IN WALL BEHIND ALL ACCESSORIES.



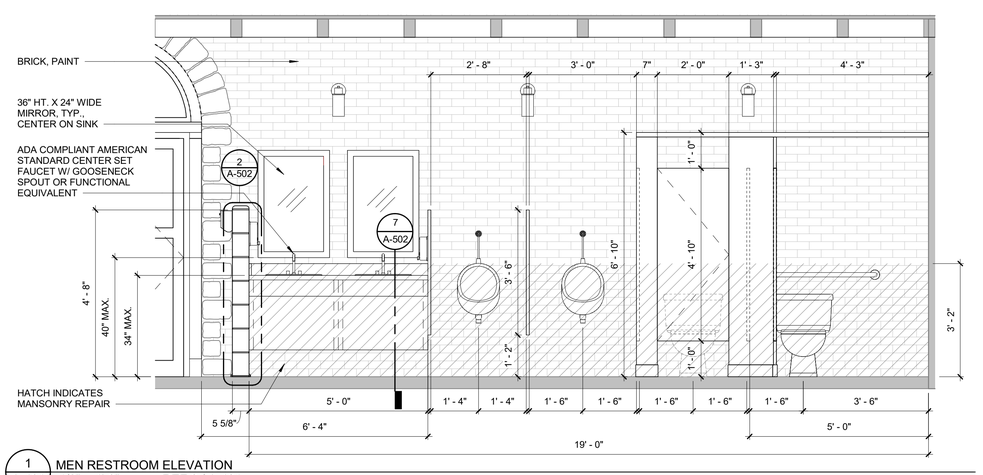
4 A-401 WOMEN RESTROOM - ENLARGED PLAN
1/2" = 1'-0"



3 A-401 MEN RESTROOM - ENLARGED PLAN
1/2" = 1'-0"



2 A-401 WOMEN RESTROOM ELEVATION
1/2" = 1'-0" REF 1 / A-101



1 A-401 MEN RESTROOM ELEVATION
1/2" = 1'-0" REF 3 / A-401

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

ROBERT WILSON WAGSTAFF - ARCHITECT
MO# A-7340

STATE OF MISSOURI
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ORIGINAL CERTIFICATE/LICENSE
NO. 00609

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314.726.4858 CORE10architecture.com

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSCTRUCTION

DEPARTMENT OF NATURAL RESOURCES DIVISION OF STATE PARKS

PROJECT TITLE
UPDATE CCC RESTROOM AND RENOVATE CCC RESTROOM INTO CABIN

WASHINGTON STATE PARK
13041 STATE HIGHWAY 104
DE SOTO, MISSOURI 63020-7000

PROJECT # X2337-01
SITE # 5221
ASSET #
RESTROOM - DAY USE AREA: 7815221007
RESTROOM - SERVICE AREA: 7815221011

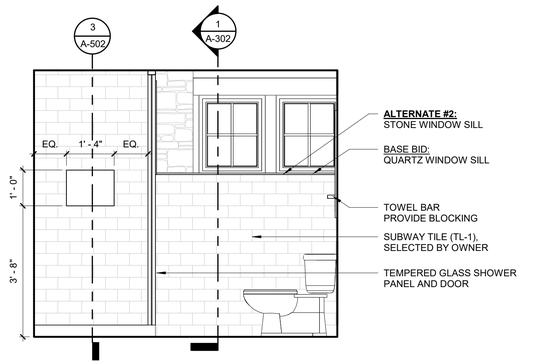
REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUEDATE: April 29, 2026

CAD DWG FILE:
DRAWN BY: JB
CHECKED BY: RW
DESIGNED BY:

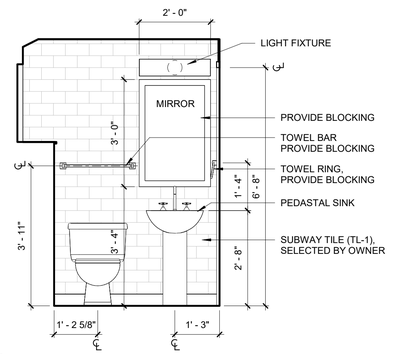
SHEET TITLE:
ENLARGED PLANS AND INTERIOR ELEVATIONS

SHEET NUMBER:
A-401

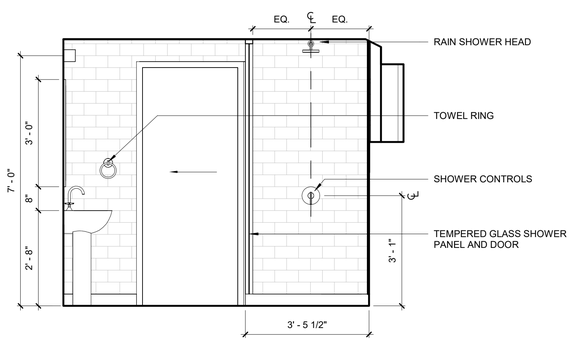
25 OF 36 SHEETS
04/29/26



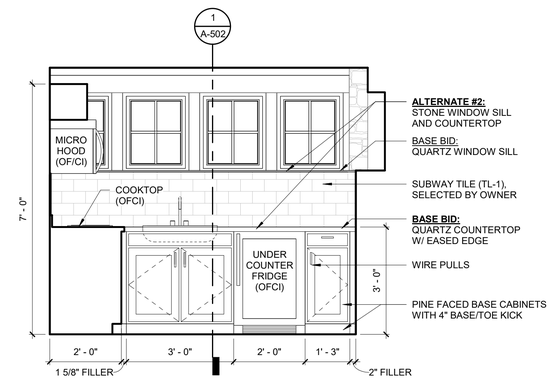
6 A-402 BATHROOM EAST ELEVATION
1/2" = 1'-0"



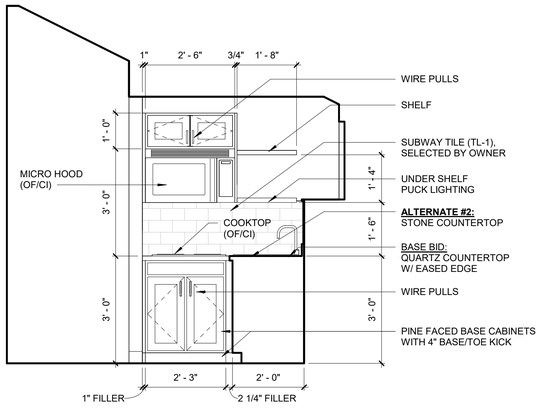
5 A-402 BATHROOM SOUTH ELEVATION
1/2" = 1'-0"



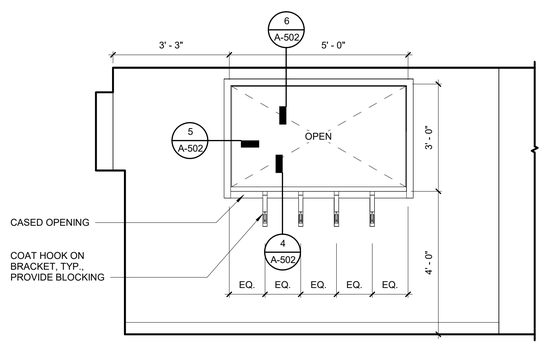
4 A-402 BATHROOM WEST ELEVATION
1/2" = 1'-0"



3 A-402 KITCHEN EAST ELEVATION
1/2" = 1'-0"



2 A-402 KITCHEN NORTH ELEVATION
1/2" = 1'-0"



1 A-402 ENTRY EAST ELEVATION
1/2" = 1'-0"

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

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ROBERT WILSON WAGSTAFF
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04/29/2024
REGISTERED ARCHITECT

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MO# A-7340

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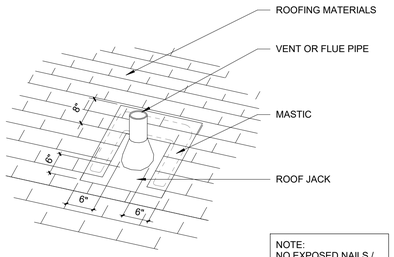
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DATE:
REVISION:
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REVISION:
DATE:
ISSUEDATE: April 29, 2026

CAD DWG FILE:
DRAWN BY: JB
CHECKED BY: RW
DESIGNED BY:

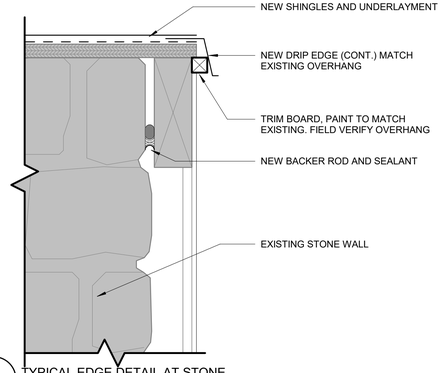
SHEET TITLE:
THUNDERBIRD CABIN INTERIOR ELEVATIONS

SHEET NUMBER:
A-402

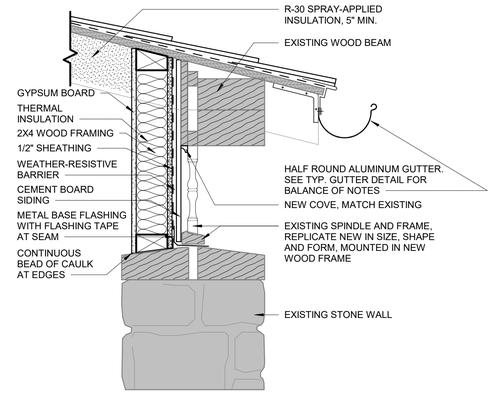
26 OF 36 SHEETS
04/29/26



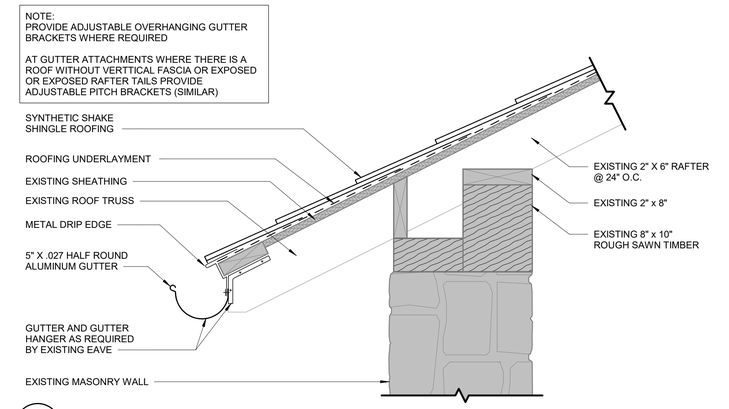
9 A-501 ROOF JACK DETAIL
1 1/2" = 1'-0"



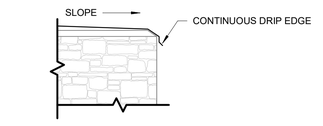
8 A-501 TYPICAL EDGE DETAIL AT STONE
3" = 1'-0" REF 2 / A-202



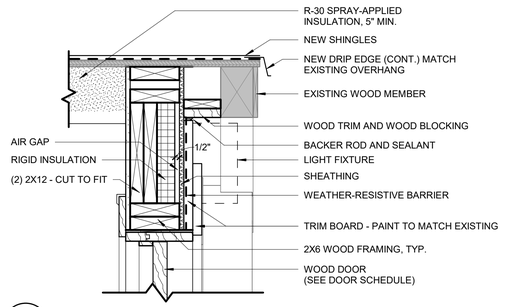
7 A-501 TYP. SPINDLE DETAIL
1 1/2" = 1'-0" REF 3 / A-202



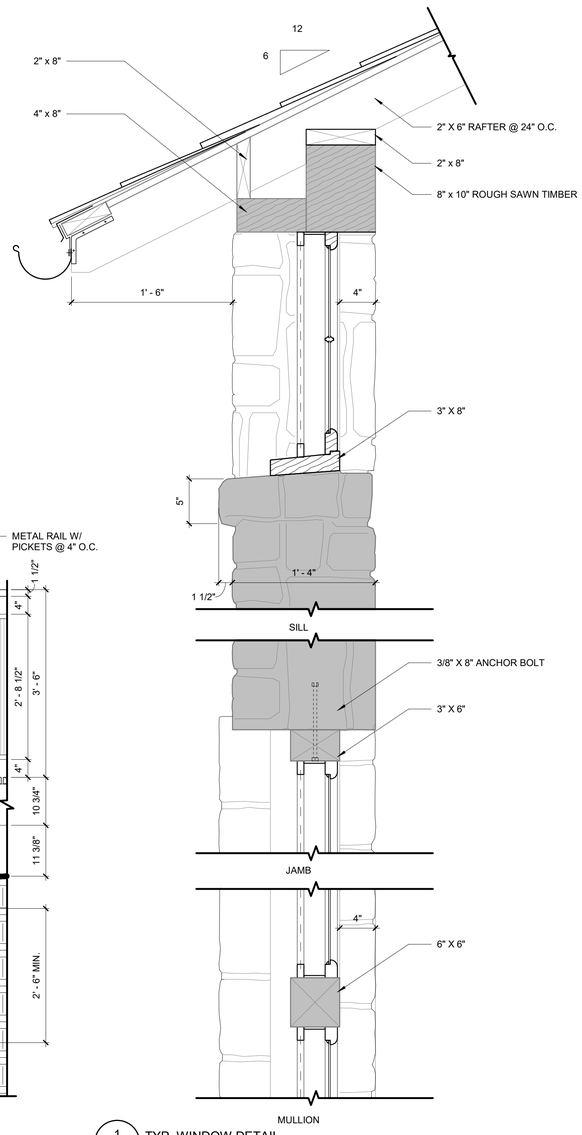
6 A-501 TYP. GUTTER DETAIL
1 1/2" = 1'-0"



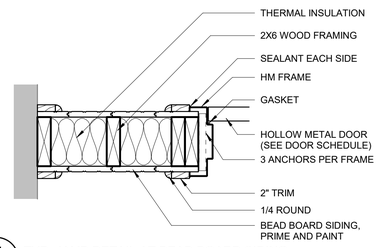
10 A-501 DETAIL AT METAL CAP
1 1/2" = 1'-0" REF 8 / A-202



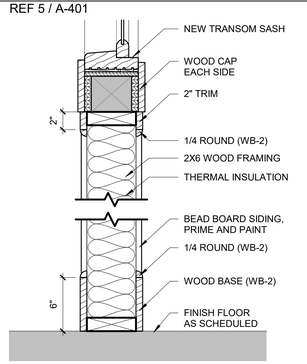
4 A-501 SECTION DETAIL AT NEW DOOR
1 1/2" = 1'-0" REF 4 / A-202



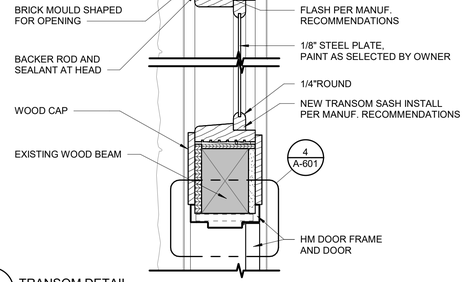
1 A-501 TYP. WINDOW DETAIL
1 1/2" = 1'-0"



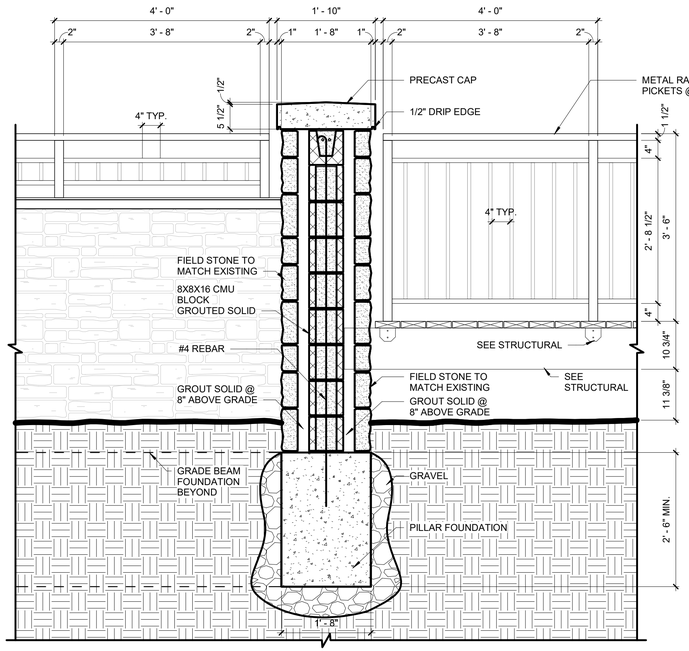
11 A-501 TYP. JAMB DETAIL AT BEAD BOARD SIDING
1 1/2" = 1'-0" REF 1 / A-301



3 A-501 TYP. SECTION DETAIL AT BEAD BOARD SIDING
1 1/2" = 1'-0" REF 1 / A-301



5 A-501 TRANSOM DETAIL
1 1/2" = 1'-0" REF 5 / A-401



2 A-501 RETAINING WALL DETAIL
3/4" = 1'-0" REF 1 / A-001

STATE OF MISSOURI
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GOVERNOR



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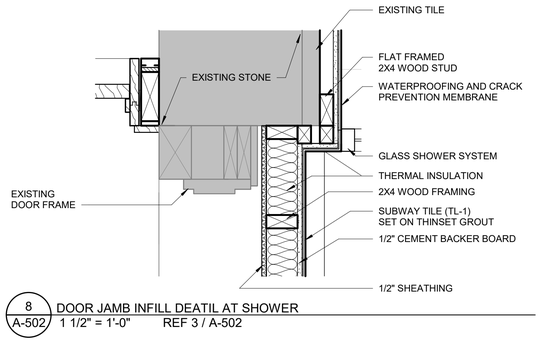
REVISION:
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DATE:
ISSUEDATE: April 29, 2026

CAD DWG FILE:
DRAWN BY: JB
CHECKED BY: RW
DESIGNED BY:

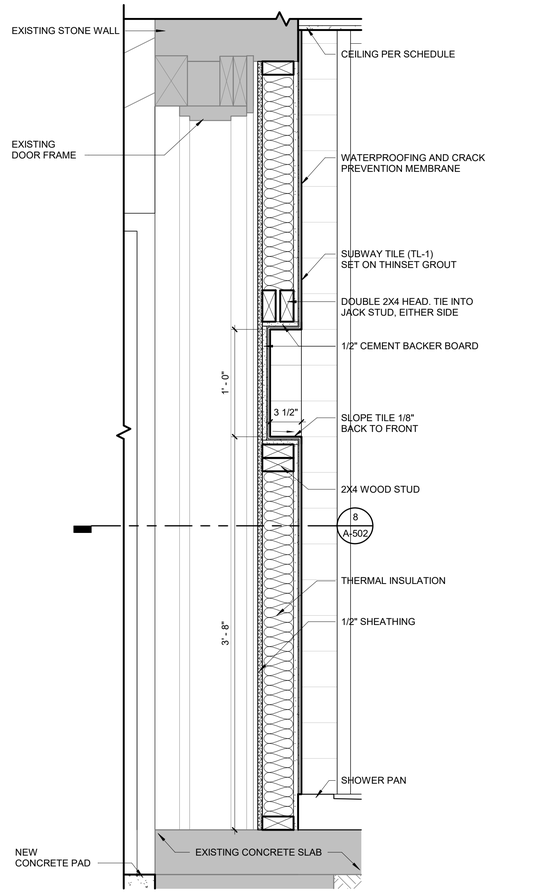
SHEET TITLE:
EXTERIOR DETAILS

SHEET NUMBER:
A-501

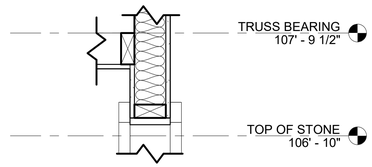
27 OF 36 SHEETS
04/29/26



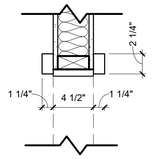
8 / A-502 DOOR JAMB INFILL DEATIL AT SHOWER
1 1/2" = 1'-0" REF 3 / A-502



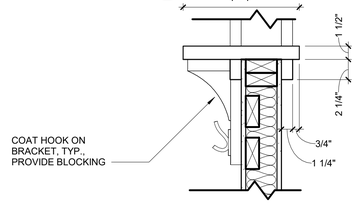
3 / A-502 DOOR INFILL SECTION AT SHOWER
1 1/2" = 1'-0" REF 6 / A-402



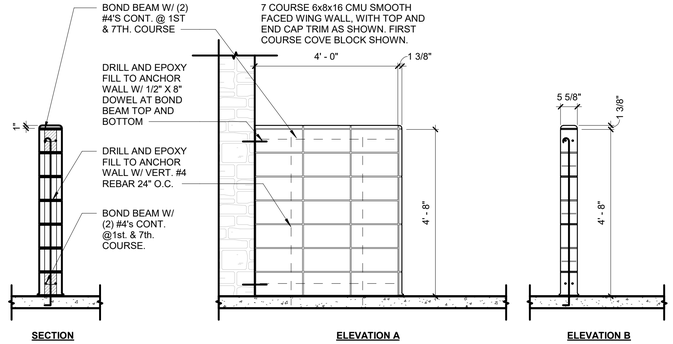
6 / A-502 PASS-THROUGH HEAD DETAIL
1 1/2" = 1'-0" REF 1 / A-302



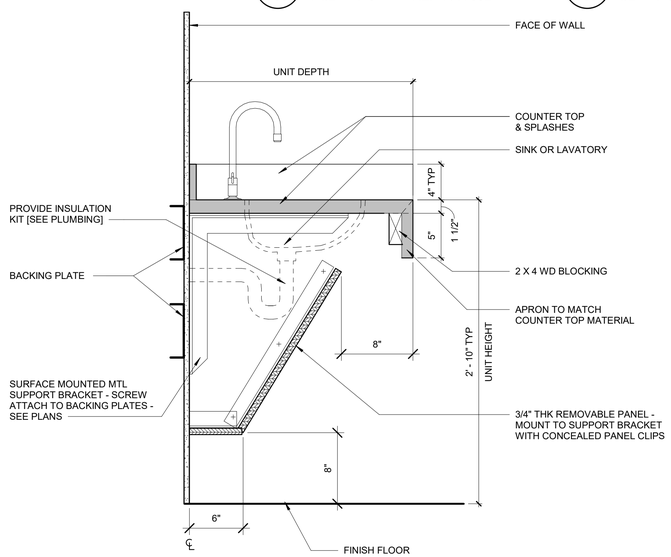
5 / A-502 PASS-THROUGH JAMB DETAIL
1 1/2" = 1'-0" REF 1 / A-302



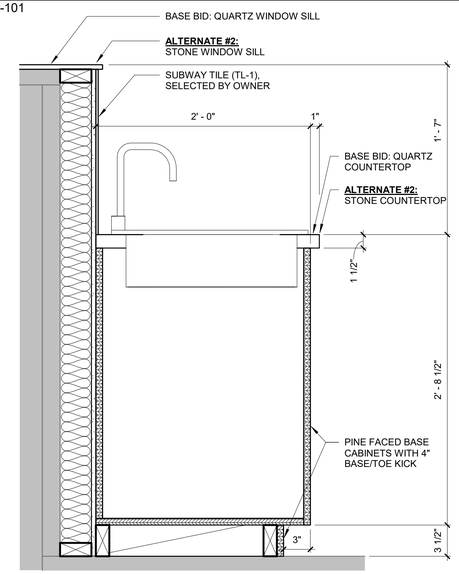
4 / A-502 PASS-THROUGH SILL DETAIL
1 1/2" = 1'-0" REF 1 / A-302



2 / A-502 CMU WING WALL DETAIL
1/2" = 1'-0" REF 1 / A-101



7 / A-502 SINK BASE PANEL
1 1/2" = 1'-0" REF 1 / A-401



1 / A-502 SECTION AT KITCHEN SINK
1 1/2" = 1'-0" REF 3 / A-402

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GOVERNOR

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ROBERT WILSON WAGSTAFF
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REGISTERED ARCHITECT

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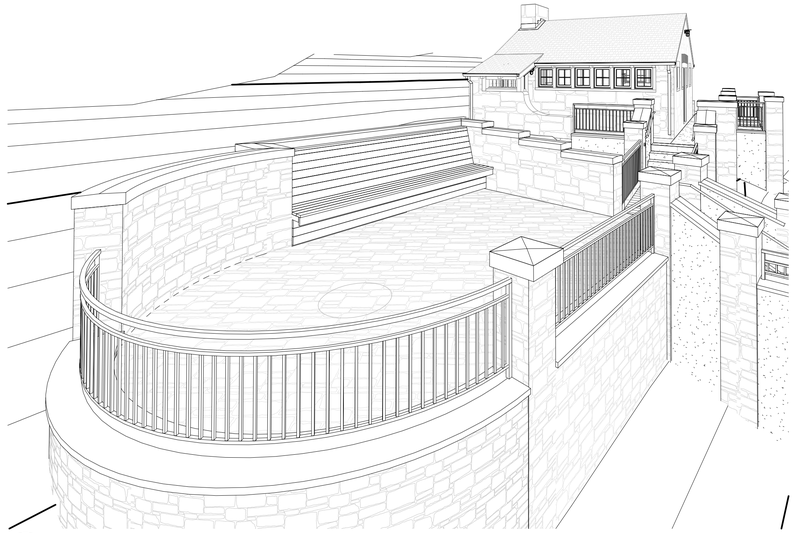
SHEET TITLE:

INTERIOR DETAILS

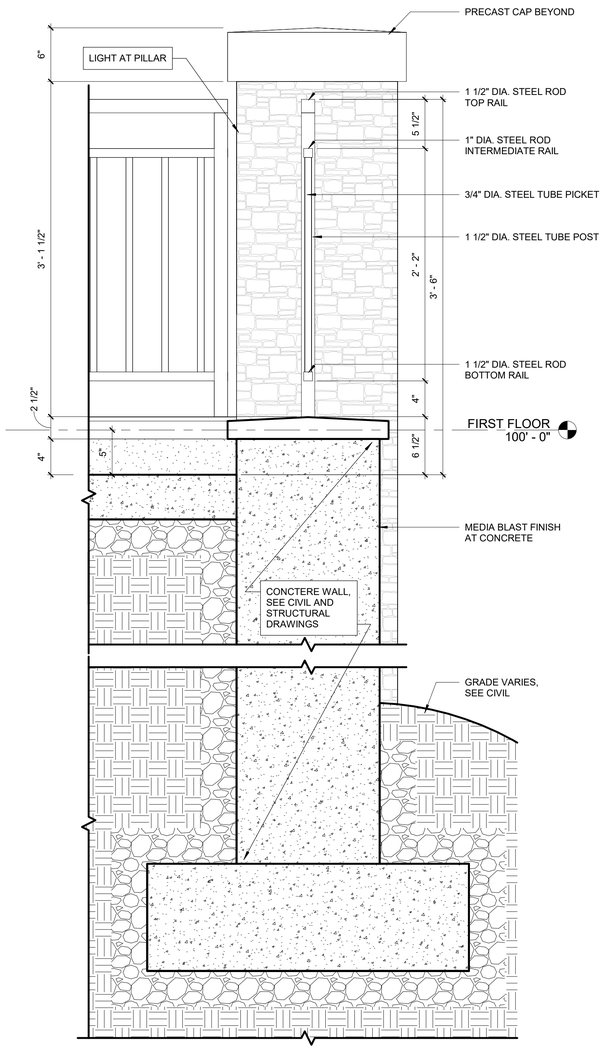
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A-502

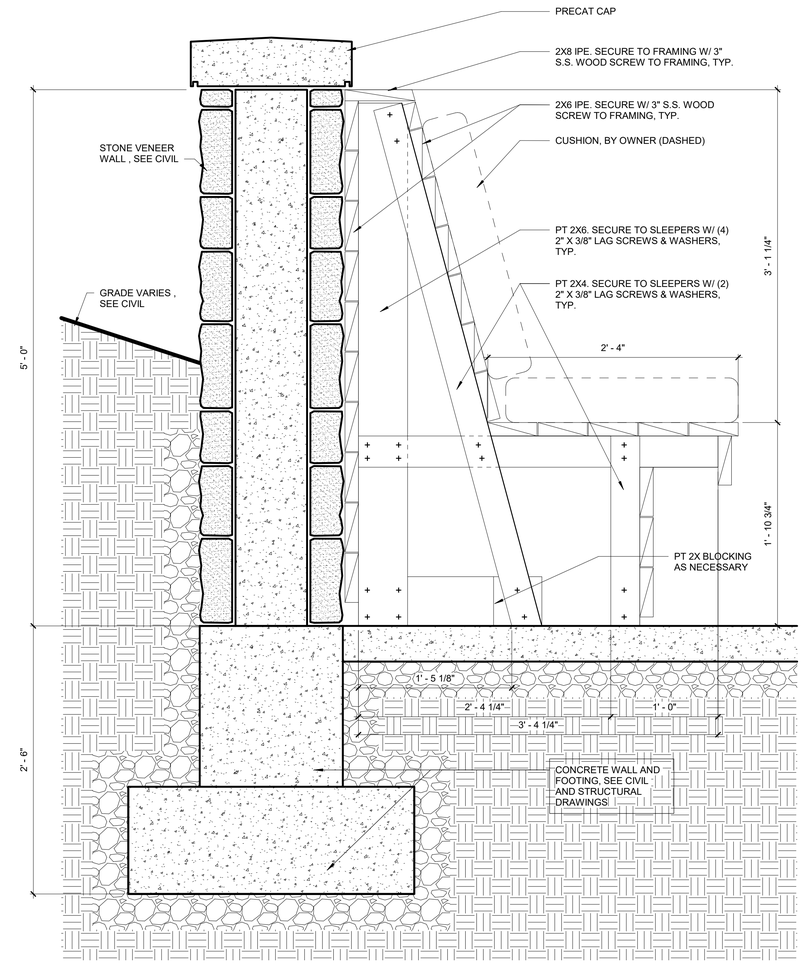
28 OF 36 SHEETS
04/29/26



3 A-503 3D VIEW - EXTERIOR BENCH



2 A-503 PORCH RAILING DETAIL
1 1/2" = 1'-0" REF 1 / A-001



1 A-503 BENCH DETAIL AT RETANING WALL
1 1/2" = 1'-0" REF 1 / A-001

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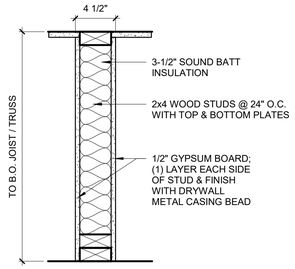
SHEET TITLE:
SITE DETAILS

SHEET NUMBER:
A-503

29 OF 36 SHEETS
04/29/26

PARTITION SCHEDULE NOTES:

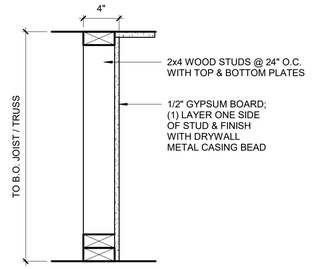
1. ALL PARTITIONS TYPE 'P1 - TYPICAL WALL', UNLESS OTHERWISE NOTED ON FLOOR PLANS.
2. PRESSURE-TREATED BOTTOM PLATES AT PARTITIONS IN DIRECT CONTACT WITH CONCRETE OR MASONRY.
3. GYPSUM BOARD AT ALL WET LOCATIONS SHALL BE MOLD- AND MILDEW-RESISTANT.
4. PROVIDE CEMENTITIOUS BACKER BOARD AT SHOWER AND TUB TILE WALLS.
5. SEE 'REFLECTED CEILING PLANS' SHEETS FOR ADJACENT CEILING HEIGHTS.



P1 - TYPICAL WALL W/BATTS

P1A - TYPICAL WALL W/BATTS (2X6 STUDS)

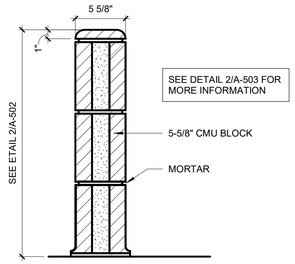
NOT RATED



P2 - TYPICAL FURRED WALL

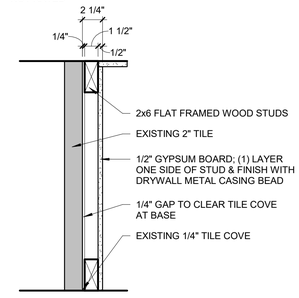
P2A - TYPICAL FURRED WALL (W/BATTS)

NOT RATED



P3 - CMU WING WALL

NOT RATED



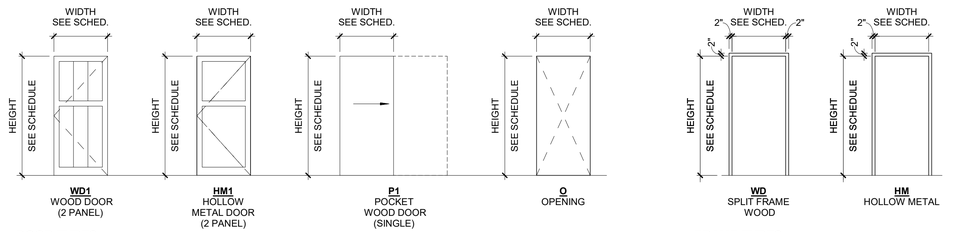
P4 - FURRING WALL AT EXISTING TILE

NOT RATED

6 / A-601 RESIDENTIAL PARTITION TYPES
1 1/2" = 1'-0"

DOOR SCHEDULE - UNITS

DOOR NO.	COUNT	DOOR TYPE	DOOR FINISH	SIZE WIDTH (DW)	SIZE HEIGHT (DH)	SIZE THICKNESS	FRAMES TYPE	FRAMES FINISH	PERIMETER DETAILS HEAD	PERIMETER DETAILS JAMB	PERIMETER DETAILS SILL	HDW GROUP	NOTES	REV
A	2	HM1	PNT	3' - 0"	6' - 8"	1 3/4"	HM	PNT	5/A-501	11/A-501	-	LOCKING		
B	2	WD1	PNT	2' - 8"	6' - 8"	1 3/4"	WD	PNT	EXIST	EXIST	-	LOCKING		
C	1	P1	PNT	2' - 8"	6' - 8"	1 3/4"	WD	PNT	2/A-601	3/A-601	-	LOCKING		
D	1	WD1	PNT	3' - 0"	6' - 0"	1 3/4"	WD	PNT	4/A-501	8/A-502	-	LOCKING		
O	1	O	-	5' - 0"	3' - 0"		-	-						



DOOR TYPES
1/4"=1'-0"

FRAME TYPES
1/4"=1'-0"

ROOM FINISH SCHEDULE - BUG HOUSE RESTROOMS

ROOM NUMBER	ROOM NAME	FLOOR FINISH	WALL NORTH FINISH/COLOR	WALL EAST FINISH/COLOR	WALL SOUTH FINISH/COLOR	WALL WEST FINISH/COLOR	WALL BASE FINISH	CEILING FINISH	NOTES	REVISIONS
FIRST FLOOR										
101	WOMEN	CONCRETE	STONE	STONE	STONE/PNT	PNT	-	PNT		
102	MEN	CONCRETE	STONE/PNT	STONE	STONE	STONE	-	PNT		

ROOM FINISH SCHEDULE - THUNDERBIRD CABIN

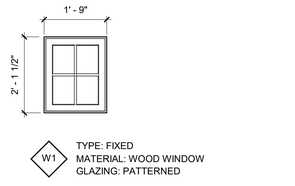
ROOM NUMBER	ROOM NAME	FLOOR FINISH	WALL NORTH FINISH/COLOR	WALL EAST FINISH/COLOR	WALL SOUTH FINISH/COLOR	WALL WEST FINISH/COLOR	WALL BASE FINISH	CEILING FINISH	NOTES	REVISIONS
FIRST FLOOR										
101	ENTRY	CONC.	STONE / TL-1	PNT	-	STONE / TL-1	WB-1	WD-1		
102	BEDROOM	CONC.	PNT / TL-1/ STONE	PNT	-	PNT	WB-1	WD-1		
103	BATHROOM	TL-2	STONE / TL-1	PNT /TL-1 / STONE	PNT / TL-1	PNT	WB-1	PNT		
104	MECH.	CONC.	STONE	PNT	PNT	STONE	WB-1	PNT		
105	LIVING / DINING	CONC.	PNT	-	STONE / TL-1	STONE / TL-1	WB-1	WD-1		
106	KITCHEN	CONC.	PNT	STONE / TL-1	STONE / TL-1	PNT	WB-1	WD-1		

FINISH LEGEND

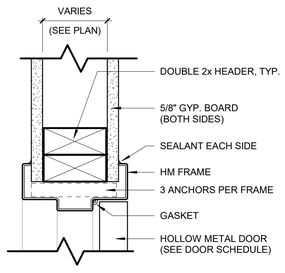
ABBREVIATION	DESCRIPTION
LVT	LUXURY VINYL TILE
PNT	PAINT (EGGSHELL)
STONE	EXISTING STONE
TL-1	4 X 8 SUBWAY TILE
TL-2	12 X 18 SUBWAY TILE
WB-1	WOOD BASE
WB-2	6" WOOD BASE
WD-1	1X BEADED BOX CAR SIDING WITH CLEAR FINISH

GENERAL NOTES - FINISHES:

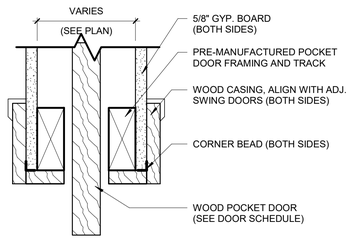
1. NO PAINTING OR INTERIOR FINISHING SHALL BE DONE UNDER CONDITIONS WHICH WILL JEOPARDIZE THE QUALITY OR APPEARANCE OF SUCH WORK. ALL WORKMANSHIP WHICH IS JUDGED LESS THAT FIRST QUALITY BY THE ARCHITECT WILL BE REJECTED.
2. INTERIOR GYPSUM BOARD SURFACES SHALL BE WIPED WITH A DAMP CLOTH JUST PRIOR TO APPLICATION OF THE FIRST COAT, IN ORDER TO LAY FLAT ANY NAP WHICH MAY HAVE FORMED IN SANDING PROCESS.
3. ALL VENEER STAINS SHALL HAVE UNIFORM COLOR.
4. ALL VERTICAL SURFACES, UNLESS OTHERWISE NOTED, SHALL RECEIVE COVED WALL BASE.
5. PAINT IS DEFINED AS ONE PRIMER COAT AND 2 FINISH COATS.
6. ALL INTERSECTIONS OF FLOOR FINISH MATERIALS SHALL BE LOCATE DIRECTLY UNDER CENTER OF DOOR, WHERE OCCURS, UNLESS OTHERWISE NOTED.
7. ALL GYP. BOARD CEILINGS AND SOFFITS TO BE P1, UNLESS OTHERWISE NOTED.
8. ALL SEALANTS TO MATCH SURFACE IN WHICH THEY OCCUR.
9. ALL COVER PLATES, SWITCHES, OUTLETS, RECEPTACLES AND DEVICES TO BE WHITE, VERIFY WITH OWNER.
10. FLOOR SURFACES TO BE PREPARED IN ACCORDANCE WITH PRODUCT MANUFACTURER'S RECOMMENDATIONS. FILL AND SMOOTH OUT ALL CRACKS, UNEVEN AND/OR ROUGH SURFACES IN SUBSTRATE WHERE NEW FLOOR COVERING IS TO BE INSTALLED. PRIOR TO INSTALLING FLOOR COVERING, REMOVE ANY AND ALL SUBSTANCES FROM SUBSTRATE, WHICH MAY TELEGRAPH THROUGH FINISH FLOORING.
11. MILLWORK SURFACE PREPARATION SHALL INCLUDE PUTTYING OF NAIL HOLES, CRACKS AND BLEMISHES. PUTTY TO MATCH THE FINISH SURFACE.
12. ALL DOORS WILL BE STAINED. COLOR TO BE DETERMINED BY OWNER.
13. ALL CASING AND BASE MOULDING WILL BE PAINTED.



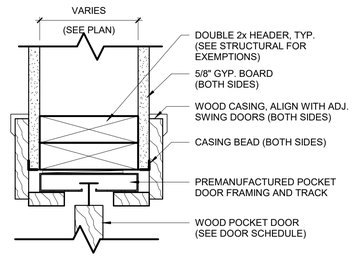
WINDOW LEGEND (T) = TEMPERED



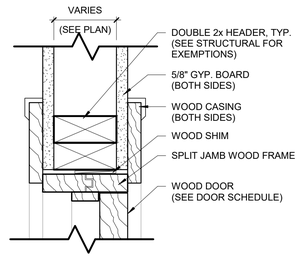
4 / A-601 TYP. HM DOOR HEAD/JAMB DETAIL
3" = 1'-0"



3 / A-601 TYP. POCKET DOOR JAMB DETAIL
3" = 1'-0"



2 / A-601 TYP. POCKET DOOR HEAD DETAIL
3" = 1'-0"



1 / A-601 TYP. INTERIOR DOOR HEAD/JAMB
3" = 1'-0"

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

STATE OF MISSOURI ROBERT WILSON WAGSTAFF NUMBER A-7340 04/29/2024 REGISTERED ARCHITECT

ROBERT WILSON WAGSTAFF - ARCHITECT
MO# A-7340

STATE OF MISSOURI
ARCHITECTURAL CORPORATION
ORIGINAL CERTIFICATE/LICENSE NO. 00609

PROFESSIONAL SEAL

core10 ARCHITECTURE
4501 Lindell Blvd, Suite 1a
Saint Louis, Missouri 63108
314.726.4858 CORE10architecture.com

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSCTRUCTION

DEPARTMENT OF NATURAL RESOURCES DIVISION OF STATE PARKS

PROJECT TITLE
UPDATE CCC RESTROOM AND RENOVATE CCC RESTROOM INTO CABIN

WASHINGTON STATE PARK
13041 STATE HIGHWAY 104
DE SOTO, MISSOURI 63020-7000

PROJECT # X2337-01
SITE # 5221
ASSET #
RESTROOM - DAY USE AREA: 7815221007
RESTROOM - SERVICE AREA: 7815221011

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:

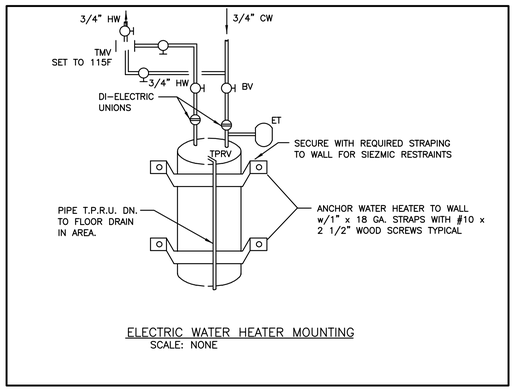
ISSUEDATE: April 29, 2026

CAD DWG FILE:
DRAWN BY: JB
CHECKED BY: RW
DESIGNED BY:

SHEET TITLE:
SCHEDULES, PARTITION TYPES, AND DETAILS

SHEET NUMBER:
A-601

PLUMBING FIXTURE SCHEDULE					
PLAN MARK	DESCRIPTION	WASTE	VENT	C.W.	H.W.
WC-1	ELONGATED VITREOUS CHINA ADA FLOOR MOUNTED WHITE TANK TYPE w/PRESSURE ASSIST WATER CLOSET OPEN FRONT WHITE SEAT/LID, DRAIN OUTLET, WAX RING, SUPPLY w/ESCUTCHEON, 1/4 TURN SHUT OFF AND FLEX RISER	4"	2"	1"	--
WC-2	ELONGATED VITREOUS CHINA STANDARD FLOOR MOUNTED WHITE TANK TYPE w/PRESSURE ASSIST WATER CLOSET OPEN FRONT WHITE SEAT/LID, DRAIN OUTLET, WAX RING, SUPPLY w/ESCUTCHEON, 1/4 TURN SHUT OFF AND FLEX RISER	4"	2"	1"	--
UR	WALL HUNG VITREOUS CHINA URINAL TOP SPUD CHROME ELECTRONIC FLUSH VALVE HEAVY DUTY RECESSED CARRIER	2"	1-1/2"	1/2"	1/2"
LAV	INTEGRAL BOWL/COUNTER SINGLE HANDLE CHROME FAUCET w/GRID STRAINER, 1-1/2"cp TRAP, 3/8" SUPPLIES, VALVES, STOPS, ESCUTCHEONS, FLEX RISERS,	2"	1-1/2"	1/2"	1/2"
SK	DROP IN STAINLESS STEEL SINGLE BOWL KITCHEN SINK SINGLE HANDLE CHROME FAUCET, SPRAYER w/GRID STRAINER, 1-1/2"cp TRAP, 3/8" SUPPLIES, VALVES, STOPS, ESCUTCHEONS, FLEX RISERS,	2"	1-1/2"	1/2"	1/2"
FD-1	CI FLOOR DRAIN WITH NICHEL BRONZE TYPE "B" STRAINER	3"	1-1/2"	--	--
FD-2	CI FLOOR DRAIN WITH NICHEL BRONZE TYPE "B" STRAINER w/TRAP PRIMER DEVICE FEED SUPPLY OFF TOP TO AVOID SEDIMENT	3"	1-1/2"	--	--
WCO	STAINLESS STEEL WALL CLEANOUT	--	--	--	--
HB-1	ANTI-SIPHON SELF DRAINING WALL HYDRANT MOUNT +36"AFF	--	--	1/2"	--
HB-2	ANTI-SIPHON SELF DRAINING WALL HYDRANT MOUNT +24"AFF	--	--	1/2"	--
TMV	THERMOSTATIC MIXING VALVE FOR COMBINATION SUPPLIES SET/LOCK TEMPERATURE @115°F ANCHOR TO SIDEWALL	--	--	1/2"	1/2" / 1/2"
WH	40 GALLON 240/1/4.5kW ELECTRIC WATER HEATER COMPLETE w/T&P VALVE, 7 GPH RECOVERY @90°F RISE	--	--	3/4"	3/4"
ET	EXPANSION TANK SIZED FOR INCOMING PRESSURE	--	--	1/2"	--
SH	ADA COMPLIANT ROLL IN SHOWER ENCLOSURE WITH DRAIN, GRID STAINER SHOWER HEAD, SINGLE LEVER MIXING VALVE, CURTAIN, ETC.	--	--	3/4"	3/4"
DS	ROUND DOWNSPOUT w/INCORPORATED CLEAN OUT SLEEVE VERIFY MATERIAL AND SIZE w/THE STATE AND ARCHITECT	--	--	--	--



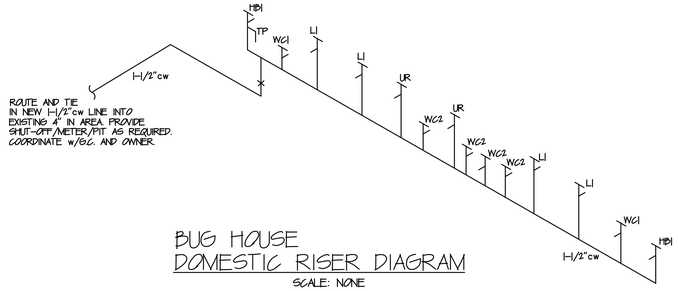
ELECTRIC WATER HEATER MOUNTING
SCALE: NONE

THE EARTHQUAKE LOAD PROVISIONS OF THE LOCAL ORDINANCE AND BUILDING CODE, THE COUNTIES AND CITIES RULES & REGULATIONS ON SEISMIC ANCHORAGE & SWAY BRACING OF THE MECHANICAL, PLUMBING, ELECTRICAL SYSTEM COMPONENTS AND THE APPROVED COMPANIES HAVE BEEN REVIEWED. ATTACHED DETAILS HAVE BEEN ABSTRACTED FROM THESE PUBLICATIONS. THE DETAILS SHOWN REPRESENT ANCHORAGE & SWAY BRACING OF THE SYSTEMS LISTED. THESE DETAILS ARE DEVELOPED BY OTHERS AND NOT OUR DESIGN. IT IS UNDERSTOOD THAT THESE ANCHORAGE & SWAY BRACING DETAILS MEET OR EXCEED THE EARTHQUAKE LOAD RESISTANCE REQUIREMENTS WITHIN AS MENTIONED PREVIOUSLY.

SEISMIC CODE DATA

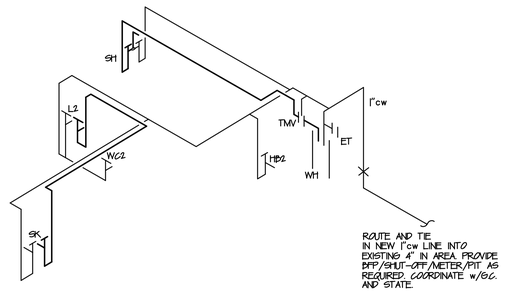
Seismic Use Group (II) Seismic Design Category (D)

LISTING OF EQUIPMENT AND SYSTEM COMPONENTS	ANCHORAGE TO FLOORS, ROOFS, ETC.		SWAY BRACING		LOCATION OF PROFESSIONALLY SEALED ANCHORAGE AND SWAY BRACING DETAILS			COMMENTS
					ON CONST. DOCUMENTS	SUBSEQUENT SUBMITTAL		
	NOT PROVIDED FOR PROJECT	PROVIDED FOR PROJECT	NOT PROVIDED FOR PROJECT	PROVIDED FOR PROJECT	DRAWING NO. OR SPEC. SECTION	SHOP DRAWINGS	SEPARATE PERMIT & PLANS	
DOMESTIC WATER PIPING	✓	-	✓	-	N/A	N/A	N/A	PER EXEMPTION ATTACHMENT "C" TABLE #500 DESCRIPTION NOTE 1c
VENT PIPING	✓	-	✓	-	N/A	N/A	N/A	PER EXEMPTION ATTACHMENT "C" TABLE #500 DESCRIPTION NOTE 1a
SANITARY PIPING	✓	-	✓	-	N/A	N/A	N/A	PER EXEMPTION ATTACHMENT "C" TABLE #500 DESCRIPTION NOTE 1a



BUG HOUSE
DOMESTIC RISER DIAGRAM
SCALE: NONE

PREPARE ENTIRE WATER SYSTEM FOR WINTER DRAIN DOWN WITH VALVES AND DROPS



THUNDERBIRD
DOMESTIC RISER DIAGRAM
SCALE: NONE

PREPARE ENTIRE WATER SYSTEM FOR WINTER DRAIN DOWN WITH VALVES AND DROPS

PLUMBING LEGEND

———	WASTE, DRAIN PIPING (W)
- - - - - -	VENT PIPING (V)
—— - ——	COLD WATER PIPING (CW)
—— - - ——	HOT WATER PIPING (HW)
—— - - - ——	HOT WATER RETURN PIPING (HWR)
——‖——	UNION
——⋈——	BALL OR GATE VALVE
FD	FLOOR DRAIN
BFP	BACKFLOW PREVENTER
WCO	WALL CLEANOUT
VTR	VENT THRU ROOF
AFF	ABOVE FINISHED FLOOR
WC	WATER CLOSET
UR	URINAL
WH	WATER HEATER
MS	MOP SINK
LAV	LAVATORY
PC	PLUMBING CONTRACTOR
GC	GENERAL CONTRACTOR
HD	HUB DRAIN
HB	HOSE BIBB
EFD	EXISTING FLOOR DRAIN (REUSE)

PLUMBING GENERAL SPECIFICATION

1. All work shall be done in strict accordance with all codes, regulations, laws and ordinances which may be applicable.
2. P.C. shall refer to existing conditions, architectural, mechanical, plumbing, structural, etc. drawings during bidding and construction to avoid any and all conflicts. Failure to do so will not alliveate this contractor's responsibilities or allow extra monies.
3. All water lines are to be copper. Type "K" below grade and type "L" above grade. Sanitary lines in or under slab are to be cast iron. Sanitary lines in grade can be PVC if presented to the engineer for review. ALL sanitary lines are to be domestically made from a USA Foundry. Domestic water can be supplied w/PEX.
4. All water lines routed above the ceiling are to be insulated with 1/2" Armaflex OR Armacell jacket. ADA sinks and lavitories which required waste and supply insulation are to be installed with Tru-Bro protection system.
5. P.C. is responsible for all permits and inspection fees.
6. All plumbing equipment shall be restrained for seismic forces in accordance with the latest edition of the IBC and applicable codes. For piping routed through concrete and/or block, provide protection in accordance with Section 305 of the latest edition of the IPC.
7. P.C. shall examine the site and determine relocated and/or removed items to be included in the contract. P.C. shall disconnect and remove from the site to be remodeled all plumbing equipment, piping, straps, etc. not to be reused. P.C. shall relocate all items of plumbing equipment and material which must be revised and/or relocated due to the remodeling. Any item which is in the area to be remodeled and serves equipment in other areas is to remain in operation during and after remodeling is complete.
8. All work is to be coordinated with the G.C. and/or Owner for acceptable work times and access.
9. All items that are installed by this contractor are to be UL listed for the application.
10. ALL supplies are to have water hammer resister and BFP/VB devices installed per manufacturer and code requirements.

Conrad LUTZ & Associates, Inc.
1211 Hidden Oak Road
St. Louis, Missouri 63017
314-576-7967
plutz@conrad-lutz.com

CLA Project #2410

Lloyd E. Moss
Professional Engineer
Missouri #E-15907

MISSOURI STATE CERTIFICATE of AUTHORITY Number 2001029034

The Professional Engineer's seal/signature affixed to this sheet applies only to the material and items shown on this sheet. All drawings, instruments or other documents not exhibiting this shall not be considered prepared by this Engineer and this Engineer expressly disclaims any and all responsibilities for such plans, drawings, documents, etc. which do not exhibit this seal/signature.

STATE OF MISSOURI
MIKE KEHOE
GOVERNOR

STATE OF MISSOURI · LLOYD E. MOSS JR. · NUMBER E-15907 · PROFESSIONAL ENGINEER

04/29/26

PROFESSIONAL SEAL

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PROJECT TITLE

UPDATE CCC RESTROOM AND RENOVATE CCC RESTROOM INTO CABIN

WASHINGTON STATE PARK
13041 STATE HIGHWAY 104,
DE SOTO, MISSOURI 63020-700

PROJECT # X2337-01
SITE # 5221
ASSET #
RESTROOM - DAY USE AREA: 7815221007
RESTROOM - SERVICE AREA: 7815221011

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUEDATE: April 29, 2026

CAD DWG FILE:
DRAWN BY: TCL
CHECKED BY: LEM
DESIGNED BY: PEL

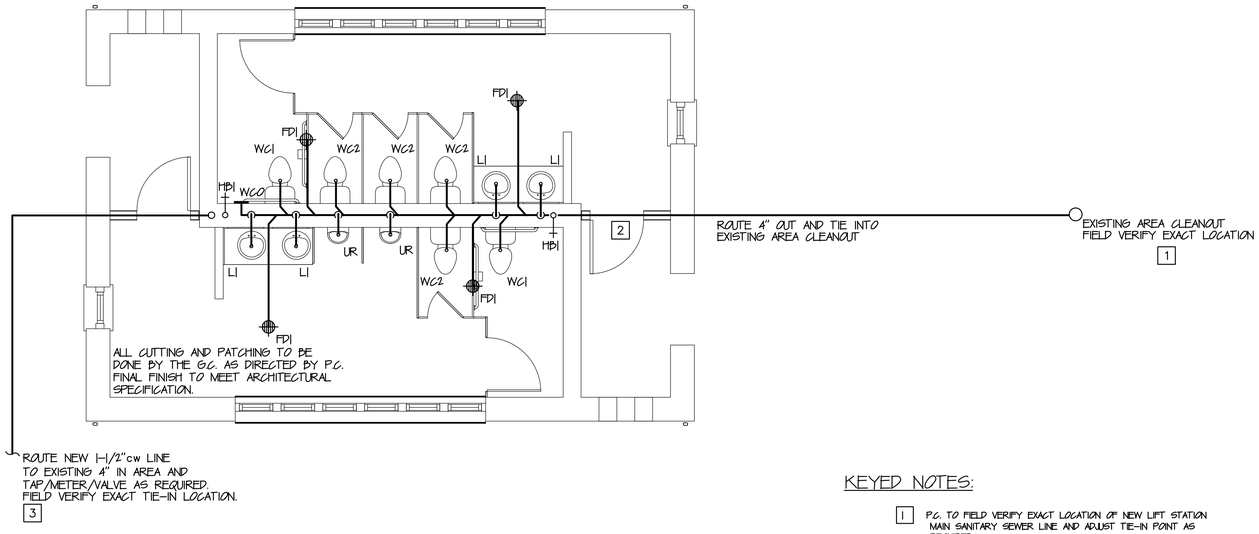
SHEET TITLE:

BUG HOUSE/ THUNDERBIRD-SCHEDULES/DETAILS

SHEET NUMBER:

P-101

31 OF 36 SHEETS
04/29/26

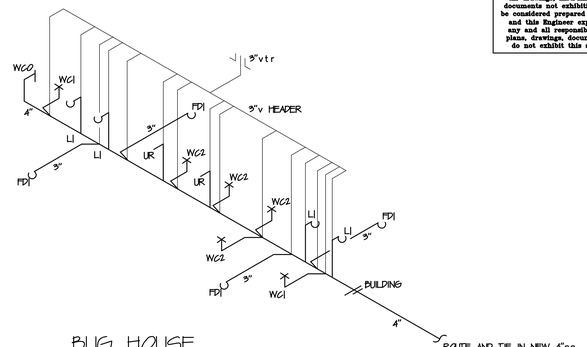


BUG HOUSE PLLUMBING PLAN

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

KEYED NOTES:

1. P.C. TO FIELD VERIFY EXACT LOCATION OF NEW LIFT STATION MAIN SANITARY SEWER LINE AND ADJUST TIE-IN POINT AS REQUIRED.
2. P.C. TO DETERMINE PITCH AND FLOW OF EXISTING MAIN SANITARY SEWER LINE AND ADJUST TIE-IN RUN AS REQUIRED.
3. P.C. TO TIE INTO AREA DOMESTIC WATER SUPPLY. COORDINATE REQUIREMENTS, (BFP, PIT, METER, ETC.) WITH THE LOCAL UTILITY OR STATE. ALL WORK IS TO BE INCLUDED WITHIN BID.
4. P.C. TO CUT INTO EXISTING SANITARY SEWER LINE IN THIS AREA. FIELD VERIFY.

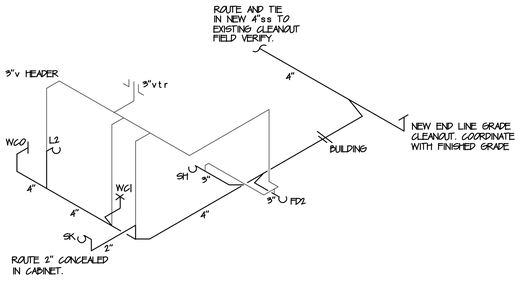


BUG HOUSE SANITARY RISER DIAGRAM

SCALE: NONE

ALL CUTTING AND PATCHING TO BE DONE BY G.C. AS DIRECTED BY P.C. FINAL FINISH TO MATCH ARCHITECTURAL SPECIFICATION.

COORDINATE ROOF PENETRATIONS WITH G.C. AND ROOFING CONTRACTOR. FOR WORK REQUIRED, LOCATE ON REAR OF BUILDING AWAY FROM VIEW.

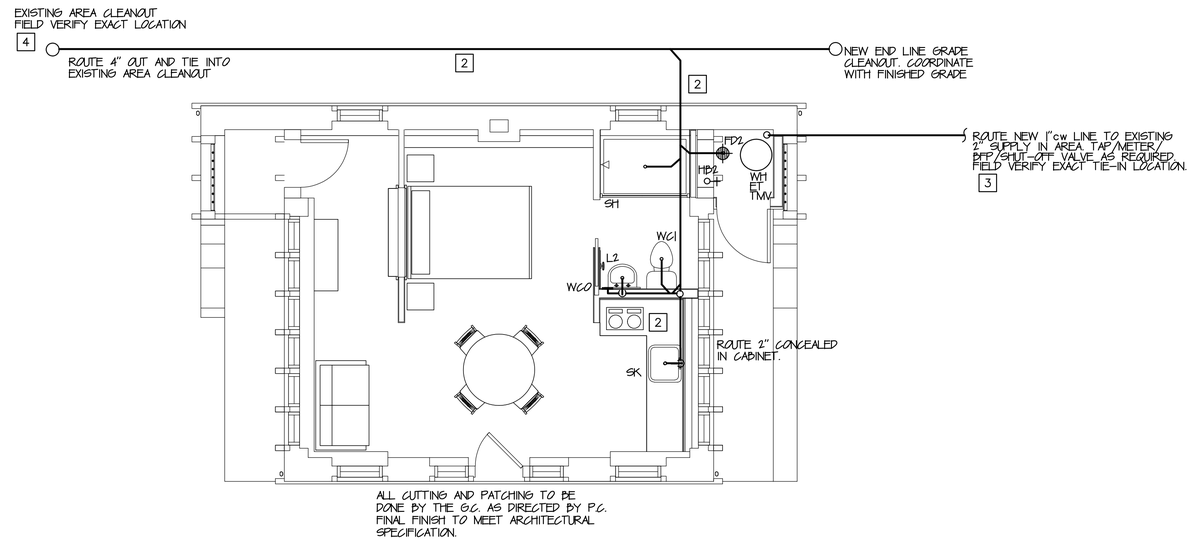


THUNDERBIRD SANITARY RISER DIAGRAM

SCALE: NONE

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COORDINATE ROOF PENETRATIONS WITH G.C. AND ROOFING CONTRACTOR. FOR WORK REQUIRED, LOCATE ON REAR OF BUILDING AWAY FROM VIEW.



THUNDERBIRD PLLUMBING PLAN

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

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1211 Hidden Oak Road
St. Louis, Missouri 63017
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CLA Project #2410

Lloyd E. Moss
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MISSOURI STATE CERTIFICATE of AUTHORITY Number 2001029034

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STATE OF MISSOURI
MIKE KEHOE
GOVERNOR

STATE OF MISSOURI · LLOYD E. MOSS JR. · NUMBER E-15907 · PROFESSIONAL ENGINEER

04/29/26

PROFESSIONAL SEAL

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ISSUEDATE: April 29, 2026

CAD DWG FILE: _____
DRAWN BY: TCL
CHECKED BY: LEM
DESIGNED BY: PEL

SHEET TITLE:

BUG HOUSE/ THUNDERBIRD-FLOOR PLANS

SHEET NUMBER:

P-102

32 OF 36 SHEETS
04/29/26

EXAHUST FAN SCHEDULE

PLAN MARK	MNFR.	CAT. NO.	CFM	ESP	VOLTS/PH	AMPERE	DRIVE	VENT	OPER. WT. (LBS)	NOTES
EF-1	COOK	GN-520	300	.125	115/1/60	35w	DIRECT	10"	32	SEE NOTE 1
EF-2	COOK	GN-520	300	.125	115/1/60	35w	DIRECT	10"	32	SEE NOTE 1
EF-3	BRAUN	BHFLED-110	110	.125	115/1/60	12.5	DIRECT	4"	20	SEE NOTE 2

1. FURNISH WITH ROOF CAP AND CURB FLASHED INTO ROOF, BIRD SCREEN, BACKDRAFT DAMPER, ISOLATION KIT, GRILLE
2. FURNISH WITH ROOF JACK BIRD SCREEN, BACKDRAFT DAMPER, ISOLATION KIT, GRILLE, COMBINATION WALL CONTROLLER.

ELECTRIC WALL HEATER SCHEDULE

PLAN MARK	MANUFACTUER	CATALOG NUMBER	VOLTS/PH	AMPS	kW	COLOR	REMARKS
EWH-1	Q-MARK	GFR-200-4T2F	230/1/60	8.3	2.0	WHITE	FURNISH w/INTEGRAL THERMOSTAT AND HEAVY DUTY SURFACE ENCLOSURE

DUCTLESS SPLIT AC SYSTEM SCHEDULE

UNIT NO.	SECTION	MANUF.	MODEL NO.	COOLING CAPACITY (BTUH)	COOLING EFFICIENCY (SEER2)	HEATING CAPACITY (BTUH)	EVAP. FAN AIRFLOW (CFM)	ELECTRICAL DATA			APPROX. UNIT WEIGHT (LBS.)	REMARKS
								VOLTAGE	PHASE	MCA		
AC-1a	INDOOR	LENNOX	M33D-024-S6-1P	32,000	22	40,000	427	230	1	26.7	37	SEE BELOW
AC-1b	OUTDOOR		MMLD-024-S6S-1P								160	

FURNISH WITH THE FOLLOWING:

1. DUCTLESS SPLIT HEAT PUMP SYSTEM WITH R-32 REFRIGERANT, OUTDOOR UNIT WITH SCROLL COMPRESSOR, CONDENSER FAN, EXPANSION VALVE, ACCESSORY WIND BAFFLE FOR OPERATION DOWN TO 0 DEG. F. ANCHORED TO ROOF DECK FOR SEISMIC. WALL BRACKET MOUNTED INDOOR SECTION WITH 4-WAY SUPPLY AIR AND CENTER CONCENTRIC RETURN AIR, 4-SPEED FAN, CONDENSATE DRAIN PAN w/1 1/4" DRAIN CONNECTION w/INTERNAL PUMP, AND WALL MOUNTED REMOTE CONTROL THERMOSTAT.
2. CONTACT MANUFACTURER FOR ALL REFRIGERANT PIPING SIZING, ROUTING AND DETAILS DURING BIDDING AND INSTALLATION.

THE EARTHQUAKE LOAD PROVISIONS OF THE LOCAL ORDINANCE AND BUILDING CODE, THE COUNTIES AND CITIES RULES & REGULATIONS ON SEISMIC ANCHORAGE & SWAY BRACING OF THE MECHANICAL, PLUMBING, ELECTRICAL SYSTEM COMPONENTS AND THE APPROVED COMPANIES HAVE BEEN REVIEWED. ATTACHED DETAILS HAVE BEEN ABSTRACTED FROM THESE PUBLICATIONS. THE DETAILS SHOWN REPRESENT ANCHORAGE & SWAY BRACING OF THE SYSTEMS LISTED. THESE DETAILS ARE DEVELOPED BY OTHERS AND NOT OUR DESIGN. IT IS UNDERSTOOD THAT THESE ANCHORAGE & SWAY BRACING DETAILS MEET OR EXCEED THE EARTHQUAKE LOAD RESISTANCE REQUIREMENTS WITHIN AS MENTIONED PREVIOUSLY.

SEISMIC CODE DATA

Seismic Use Group (II) Seismic Design Category (D)

LISTING OF EQUIPMENT AND SYSTEM COMPONENTS	ANCHORAGE TO FLOORS, ROOFS, ETC.		SWAY BRACING		LOCATION OF PROFESSIONALLY SEALED ANCHORAGE AND SWAY BRACING DETAILS			COMMENTS
					ON CONST. DOCUMENTS	SUBSEQUENT SUBMITTAL		
	NOT PROVIDED	PROVIDED	NOT PROVIDED	PROVIDED	DRAWING NO. OR SPEC. SECTION	SHOP DRAWINGS	SEPARATE PERMIT & PLANS	
DUCTWORK	✓	–	✓	–	N/A	N/A	N/A	REFER TO NOTE 2
TOILET EXHAUST FAN	–	✓			REFER TO DETAIL ON "M" SHEETS	N/A	N/A	REFER TO NOTE 1

NOTE 1: REFER TO DETAIL ATTACHED
NOTE 2: LESS THAN 600 SQUARE INCHES NO REQUIREMENT NEEDED
NOTE 3: ANCHORED DIRECTLY TO WALL

MECHANICAL SYMBOLS

PC	PLUMBING CONTRACTOR
GC	GENERAL CONTRACTOR
EC	ELECTRICAL CONTRACTOR
MC	HEATING AND VENTILATING CONTRACTOR
EF	EXHAUST FAN
AC	AIR CONDITIONING UNIT
RTU	ROOF TOP UNIT
SD	SPLIT DAMPER
RTU 1	UNIT DESIGNATION (SEE SCHEDULE)
S	SENSOR – MOUNT +72" AFF
T	THERMOSTAT, w/PLASTIC COVER – MOUNT +72" AFF
H	HUMIDISTAT w/PLASTIC COVER – MOUNT +48" AFF
P	PRESSURE STAT w/PLASTIC COVER – MOUNT +48" AFF
	SUPPLY DIFFUSER
	RETURN GRILLE
	EXHAUST GRILLE
	SUPPLY DUCT CROSS SECTION
	RETURN DUCT CROSS SECTION
	EXHAUST DUCT CROSS SECTION
A 300	AIR DEVICE UNIT DESIGNATION WITH CFM INDICATION
	FLEXIBLE ROUND DUCT SIZE AS INDICATED
	AIR VOLUME DAMPER (MANUAL OPERATION)
	ROUND DUCT TAKE-OFF (W/ VOLUME DAMPER)
	OPPOSED BLADE DAMPER (OBD) MOTORIZED (MOBD)
	VANED ELBOW
10x12	RECTANGULAR DUCT (INSIDE DIMENSION)
12"ø	ROUND DUCT (INSIDE DIMENSION)

MECHANICAL GENERAL SPECIFICATION

1. All work shall be done in strict accordance with all codes, regulations, laws and ordinances which may be applicable.
2. M.C. shall refer to existing conditions, architectural, electrical, plumbing, structural, etc. drawings during bidding and construction to avoid any and all conflicts. Failure to do so will not alleviate this contractor's responsibilities or allow extra monies.
3. Fabricate and install ductwork in compliance with SMACNA publication and all other regulation, codes, ordinances, etc.
4. M.C. is responsible for all permits and inspection fees.
5. All mechanical equipment shall be restrained for seismic forces in accordance with the latest edition of the IBC and applicable codes.
6. The entire HVAC system shall be balanced by an independent test and balance company with NEBB Certification. Submit data on company proposed to Engineer for approval prior to contract acceptance.
7. M.C. shall examine the site and determine relocated and/or removed items to be included in the contract. M.C. shall disconnect and remove from the site to be remodeled all mechanical equipment, ductwork, straps, etc. not to be reused. M.C. shall relocate all items of mechanical equipment and material which must be revised and/or relocated due to the remodeling. Any item which is in the area to be remodeled and serves equipment in other areas is to remain in operation during and after remodeling is complete.
8. All work is to be coordinated with the G.C. and/or Owner for acceptable work times and access.
9. All supply/return ducts are to be internally lined per SMACNA. Provide R-6 insulation in unconditioned spaces.
10. All items that are installed by this contractor are to be UL listed for the application.
11. All metal gas piping is required to be painted when exposed to the exterior environment and elevated a minimum of 3-1/2" above grade, pavement or roof deck.
12. Refrigerant circuit access ports located outdoors shall have locking type tamper-resistant caps.
13. Vents, exhaust discharge, etc. are to be located a minimum of 10'-0" in distance from any fresh air intake.
14. All material specified are to be included with the bid package. Any substitutions to the specified items are to be presented to the Engineer during the bid process. Failure to present the proposed item within that period will not be considered for substitution. Shop drawings of all associated items are to be prepared and presented for review. Within an appropriate time, those shop drawings will be returned with the stamp of the Engineer for processing.

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CLA Project #2410

Lloyd E. Moss
Professional Engineer
Missouri #E-15907

MISSOURI STATE CERTIFICATE of AUTHORITY Number 2001029034

The Professional Engineer's seal/signature affixed to this sheet applies only to the material and items shown on this sheet. All drawings, instruments or other documents not exhibiting this shall not be considered prepared by this Engineer and this Engineer expressly disclaims any and all responsibilities for such plans, drawings, documents, etc. which do not exhibit this seal/signature.

STATE OF MISSOURI
MIKE KEHOE
GOVERNOR



04/29/26

PROFESSIONAL SEAL

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Saint Louis, Missouri 63108
314.726.4858 CORE10architecture.com

OFFICE OF ADMINISTRATIC
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSCTRUCTI

DEPARTMENT OF NATURAL RESOURCES DIVISION OF STATE PARKS

PROJECT TITLE

UPDATE CCC RESTROOM AND RENOVATE CCC RESTROOM INTO CABIN

WASHINGTON STATE PARK
13041 STATE HIGHWAY 104,
DE SOTO, MISSOURI 63020-700

PROJECT # X2337-01
SITE # 5221
ASSET #
RESTROOM - DAY USE AREA: 7815221007
RESTROOM - SERVICE AREA: 7815221011

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUEDATE: April 29, 2026

CAD DWG FILE: _____
DRAWN BY: TCL
CHECKED BY: LEM
DESIGNED BY: PEL

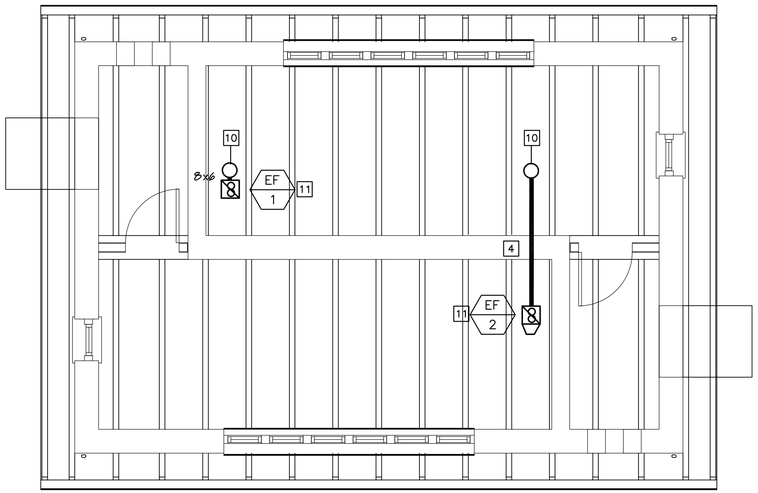
SHEET TITLE:

BUG HOUSE/ THUNDERBIRD-SCHEDULES/DETAILS

SHEET NUMBER:

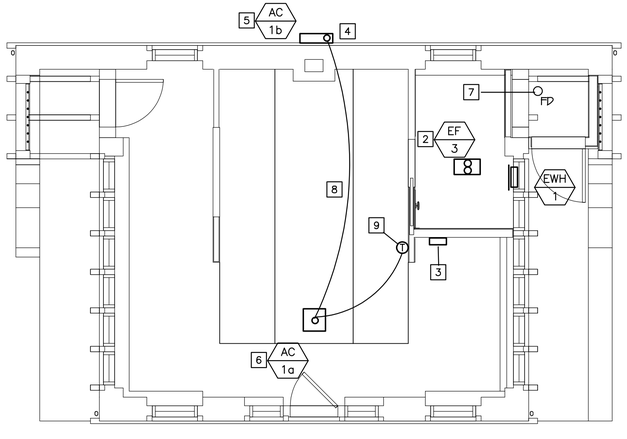
M-101

33 OF 36 SHEETS
04/29/26



BUG HOUSE TOILET MECHANICAL PLAN

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

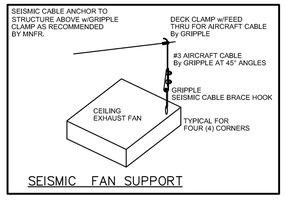


THUNDERBIRD MECHANICAL PLAN

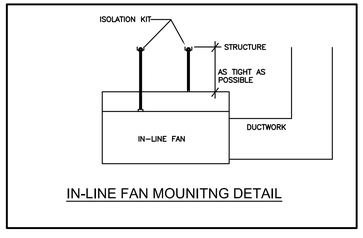
SCALE: 1/4" = 1'-0"

KEYED NOTES:

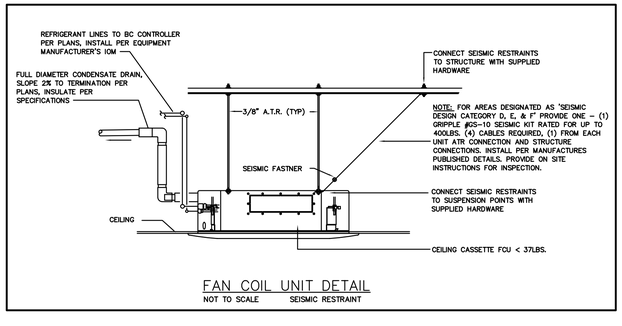
1. DROP CONDENSATE DRAIN LINE DOWN INTO FLOOR DRAIN.
2. MOUNT RECESSED FAN WITH GRILLE FLUSH WITH CEILING FINISH. FROM FAN OUTLET FURNISH AND ROUTE 8"ø DUCT UP TO ROOF JACK. SEAL MAKING THE PENETRATION WATER TIGHT. COORDINATE WITH ROOFING CONTRACTOR.
3. PROVIDE DUCT OFF MICROWAVE OVEN SIZE AS REQUIRED UP THRUEH ROOM TO ROOF JACK. SEAL MAKING THE PENETRATION WATER TIGHT. COORDINATE WITH ROOFING CONTRACTOR.
4. M.C. TO MAKE PENETRATION CLEAN, NEAT AND TIGHT TO PIPING AND/OR DUCTWORK.
5. INSTALL OUTDOOR SECTION OF DUCTLESS SPLIT AC SYSTEM ON WALL w/BRACKET. +7'-0" AFF.
6. INSTALL INDOOR SECTION OF DUCTLESS SPLIT AC SYSTEM IN CEILING WITH RECESSED MOUNTING BRACKET AND CLIPS INTO DECKING AS DETAILED. VERIFY EXACT LOCATION IN FIELD WITH STRUCTURE.
7. CONNECT CONDENSATE DRAIN TO INDOOR SECTION OF DUCTLESS SPLIT AC SYSTEM. ROUTE FULL SIZE LINE ABOVE CEILING TO FLOOR DRAIN. COORDINATE w/P.C. PROVIDE PUMP IF ADEQUATE FALL CANT BE ACHIEVED.
8. RUN REFRIGERANT PIPING FROM OUTDOOR SECTION TO INDOOR SECTION OF DUCTLESS SPLIT A/C SYSTEM WITH PIPING SIZED PER MANUFACTURERS REQUIREMENTS. SUPPORT PIPING ABOVE CEILING AND PAINT EXTERIOR PIPE INSULATION. SEAL ALL PENETRATIONS WATER-TIGHT.
9. INSTALL CANISTER CONTROL THERMOSTAT FOR DUCTLESS SPLIT A/C SYSTEM ON WALL. +54" ABOVE FLOOR.
10. M.C. TO PROVIDE TRANSITION OFF FAN 8x6 DISCHARGE TO 10"ø DUCT. ROUTE UP THRUEH ROOF TO ROOF CAP. SEAL MAKING PENETRATION WATER TIGHT. COORDINATE WITH ROOFING CONTRACTOR.
11. MOUNT RECESSED FAN WITH GRILLE FLUSH WITH CEILING FINISH.



SEISMIC FAN SUPPORT



IN-LINE FAN MOUNITNG DETAIL



FAN COIL UNIT DETAIL

NOT TO SCALE SEISMIC RESTRAINT

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CLA Project #2410

Lloyd E. Moss
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Missouri #E-15907

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STATE OF MISSOURI
MIKE KEHOE
GOVERNOR

STATE OF MISSOURI LLOYD E. MOSS JR. NUMBER E-15907 PROFESSIONAL ENGINEER

04/29/26

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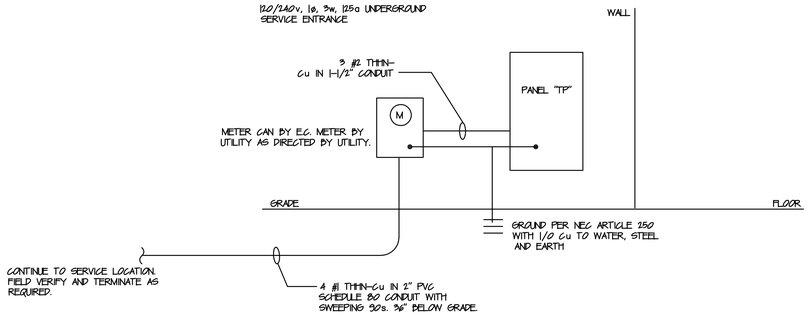
SHEET TITLE:

BUG HOUSE/ THUNDERBIRD-FLOOR PLANS

SHEET NUMBER:

M-102

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04/29/26

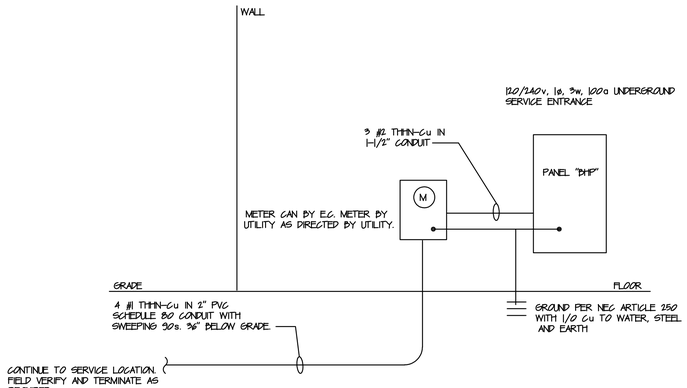


THUNDERBIRD ELECTRICAL RISER DIAGRAM

E.C. TO COORDINATE ALL ELECTRICAL SERVICE INSTALLATIONS WITH LOCAL UTILITY AND INSPECTION DEPARTMENT DURING BIDDING AND PRIOR TO INSTALLATION.

REVISE IF UNDERGROUND SERVICE IS PROVIDED COORDINATED W/UTILITY.

FEEDER SIZES AND/OR CONDUIT CAN CHANGE BUT MUST COMPLY W/NEC CRITERIA.



BIRDHOUSE ELECTRICAL RISER DIAGRAM

E.C. TO COORDINATE ALL ELECTRICAL SERVICE INSTALLATIONS WITH LOCAL UTILITY AND INSPECTION DEPARTMENT DURING BIDDING AND PRIOR TO INSTALLATION.

REVISE IF UNDERGROUND SERVICE IS PROVIDED COORDINATED W/UTILITY.

FEEDER SIZES AND/OR CONDUIT CAN CHANGE BUT MUST COMPLY W/NEC CRITERIA.

THE EARTHQUAKE LOAD PROVISIONS OF THE LOCAL ORDINANCE AND BUILDING CODE, THE COUNTIES AND CITIES RULES & REGULATIONS ON SEISMIC ANCHORAGE & SWAY BRACING OF THE MECHANICAL, PLUMBING, ELECTRICAL SYSTEM COMPONENTS AND THE APPROVED COMPANIES HAVE BEEN REVIEWED. ATTACHED DETAILS HAVE BEEN ABSTRACTED FROM THESE PUBLICATIONS. THE DETAILS SHOWN REPRESENT ANCHORAGE & SWAY BRACING OF THE SYSTEMS LISTED. THESE DETAILS ARE DEVELOPED BY OTHERS AND NOT OUR DESIGN. IT IS UNDERSTOOD THAT THESE ANCHORAGE & SWAY BRACING DETAILS MEET OR EXCEED THE EARTHQUAKE LOAD RESISTANCE REQUIREMENTS WITHIN AS MENTIONED PREVIOUSLY.

SEISMIC CODE DATA

Seismic Use Group (II) Seismic Design Category (D)

COMPONENT	ANCHORAGE TO FLOORS, ROOFS, ETC.		SWAY BRACING		LOCATION OF PROFESSIONALLY SEALED ANCHORAGE AND SWAY BRACING DETAILS			COMMENTS
					ON CONST. DOCUMENTS	SUBSEQUENT SUBMITTAL		
	NOT PROVIDED	PROVIDED	NOT PROVIDED	PROVIDED	DRAWING NO. OR SPEC. SECTION	SHOP DRAWINGS	SEPARATE PERMIT & PLANS	
CONDUIT	✓	-	-	N/A	N/A	-	-	PER EXEMPTION ATTACHMENT "C" TABLE #600 (LESS THAN DIMENSION)
LIGHTING FIXTURES	-	✓	-	N/A	N/A	-	-	REFER TO DETAILIN THIS SET FOR REQUIREMENTS
PANELS	-	✓	-	N/A	N/A	-	-	REFER TO DETAILIN THIS SET FOR REQUIREMENTS

FURNISH AS NEMA 3R ENCLOSURE WITH LOCKING DOOR, 125a, 2p SERVICE RATED S/N MAIN CIRCUIT BREAKER

PANEL "TP" 120/240v, 1ø, 3w, 125 AMPERES

CKT NO.	BREAKER SIZE	BREAKER POLES	SERVES	VA	PHASE	VA	SERVES	BREAKER POLES	BREAKER SIZE	CKT NO.
1	40	2	⟨4⟩X⟨5⟩	6400	A	1500	⟨1⟩	1	20	2
3	–	–	---	--	B	500	INTERIOR LIGHTS	1	20	4
5	30	2	⟨7⟩	4500	A	500	INTERIOR LIGHTS	1	20	6
7	–	–	---	--	B	300	FIRE ALARM	1	20	8
9	20	2	⟨6⟩	2000	A	1800	MICROWAVE	1	20	10
11	–	–	---	--	B	800	REFRIGERATOR	1	20	12
13	20	1	COOK TOP	1800	A	600	KITCHEN RECEPTS.	1	20	14
15	20	1	SPARE	--	B	300	EXT. WALL LTGS	1	20	16
17	20	1	RECEPTACLES	800	A	--	SPARE	1	20	18
19	20	1	RECEPTACLES	600	B	--	SPARE	1	20	20
21	20	1	RECEPTACLES	800	A	--	SPARE	1	20	22
23	20	1	SPARE	--	B	--	SPARE	1	20	24
25	20	1	SPARE	--	A	--	SPARE	1	20	26
27	20	1	SPARE	--	B	--	SPARE	1	20	28
29	20	1	SPARE	--	A	--	SPARE	1	20	30
31	20	1	SPARE	--	B	--	SPARE	1	20	32

TOTAL CONNECTED LOAD: 23,200 VA 96.6 AMPERES

ELECTRICAL GENERAL SPECIFICATION

1. All work shall be done in strict accordance with the latest edition of the National Electrical Code and all regulations, laws and ordinances which may be applicable.
2. E.C. shall refer to existing conditions, architectural, mechanical, plumbing, structural, etc. drawings during bidding and construction to avoid any and all conflicts. Failure to do so will not alleviate this contractor's responsibilities or allow extra monies.
3. All wire is to be copper with "THWN" or "THHN" insulation. Type "AC", "BX", "NM" or "NMC" cables will not be permitted on this project. All exposed conduit is to be rigid steel. PVC within slab/grade is permitted if approved by local authority. "MC" is approved for box to box and fixture whips. Home runs to panel are to be rigid steel. Schedule 80 PVC conduit can used in lieu of exposed rigid steel if approved by local codes. Wiring methods are to comply w/NEC Article 300.
4. All electrical equipment shall be restrained for seismic forces in accordance with the latest edition of the IBC and applicable codes.
5. E.C. is responsible for all permits and inspection fees.
6. All conduits are to have independent green ground wire installed along with feeders indicated. Size ground w/NEC Article 250.
7. E.C. shall examine the site and determine relocated and/or removed items to be included in the contract. E.C. shall disconnect and remove from the site to be remodeled all electrical equipment, conduit, wire, etc. not to be reused. E.C. shall relocate all items of electric equipment and material which must be revised and/or relocated due to the remodeling. Any circuit which is in the area to be remodeled and serves equipment in other areas is to remain in operation during and after remodeling is complete.
8. All work is to be coordinated with the G.C. and/or Owner for acceptable work times and access.
9. Within panel door E.C. to provide a typed index card identifying all circuit and equipment used.
10. Load centers are not approved. Clearances to comply w/NEC Article 110-16.32/33
11. Heavy-duty fused disconnect switches with Bussmann fuses only.
12. All items that are installed by this contractor are to be UL listed per the National Electric Code.
13. All material specified are to be included with the bid package. Any substitutions to the specified items are to be presented to the Engineer during the bid process. Failure to present the proposed item within that period will not be considered for substitution. Shop drawings of all associated items are to be prepared and presented for review. Within an appropriate time, those shop drawings will be returned with the stamp of the Engineer for processing.
14. All control wiring is to be furnished, installed and terminated by the electrical contractor. Mechanical contractor is to provide wiring schematics, directions, descriptions, etc.

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CLA Project #2410

Lloyd E. Moss
Professional Engineer
Missouri #E-15907

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FURNISH AS NEMA 3R ENCLOSURE WITH LOCKING DOOR, 30a, 2p SERVICE RATED S/N MAIN CIRCUIT BREAKER

PANEL "BHP" 120/240v, 1ø, 3w, 100 AMPERES

CKT NO.	BREAKER SIZE	BREAKER POLES	SERVES	VA	PHASE	VA	SERVES	BREAKER POLES	BREAKER SIZE	CKT NO.
1	20	1	⟨2⟩X⟨3⟩	100	A	100	EXTERIOR LIGHTS	1	20	2
3	20	1	RECEPTACLES	400	B	100	INTERIOR LIGHTS	1	20	4
5	20	1	SPARE	--	A	100	INTERIOR LIGHTS	1	20	6
7	20	1	SPARE	--	B	--	SPARE	1	20	8
9	20	1	SPARE	--	A	--	SPARE	1	20	10
11	20	1	SPARE	--	B	--	SPARE	1	20	12

TOTAL CONNECTED LOAD: 800 VA 3.3 AMPERES

WIRE THROUGH PHOTOCELL

ELECTRICAL SYMBOL LIST

WP	WEATHERPROOF
RT	RAINTIGHT
EC	ELECTRICAL CONTRACTOR
MC	MECHANICAL CONTRACTOR
GC	GENERAL CONTRACTOR
AFF	ABOVE FINISHED FLOOR
	CONDUIT RUN CONCEALED IN CEILING OR WALL. NUMBER OF HASH MARKS INDICATE NUMBER OF #12 WIRES WHEN MORE THAN TWO ARE REQUIRED UNLESS NOTED OTHERWISE.
	CONDUIT RUN CONCEALED IN FLOOR OR EARTH.
	CONDUIT RUN EXPOSED.
D 1a	HID, INC, FLUOR, LED LIGHTING FIXTURE: "D" INDICATED FIXTURE TYPE (SEE "LIGHTING FIXTURE SCHEDULE"); "1" INDICATES CIRCUIT NUMBER; "a" INDICATES CONTROL BY SWITCH "a".
A 1a	FLUORESCENT/LED LIGHTING FIXTURE: "A" INDICATES FIXTURE TYPE (SEE "LIGHTING FIXTURE SCHEDULE"); "1" INDICATES CIRCUIT NUMBER; "a" INDICATES CONTROL BY SWITCH "a".
S 1a	SPST TOGGLE SWITCH: "1a" INDICATES OUTLETS CONTROLLED. MT. +48"aff UNLESS OTHERWISE NOTED. (HUBBELL #HBL-1201-I)
S 1a 3	THREE WAY TOGGLE SWITCH: "1a" INDICATES OUTLETS CONTROLLED. MT. +48"aff UNLESS OTHERWISE NOTED. (HUBBELL #HBL-1203-I)
	FLUSH WALL DUPLEX RECEPTACLE: MT. +18"aff TO CENTERLINE OF BOX UNLESS OTHERWISE NOTED. (HUBBELL #5362-I) MT. +12" ABOVE DOOR HEADER
	FLUSH WALL DOUBLE DUPLEX RECEPTACLE: MT. +18"aff TO CENTERLINE OF BOX UNLESS OTHERWISE NOTED. (HUBBELL #5362-I)
	SURGE SUPPRESSION W/ISOLATED GROUND RECEPTACLE: MT. +18"aff TO CENTERLINE OF BOX UNLESS OTHERWISE NOTED (HUBBELL IG5362-S)
	GROUND FAULT INTERRUPTING DEVICE (GFCI)-- MT. +24"aff HORIZONTAL UNLESS OTHERWISE NOTED. (HUBBELL #GF5362-I)
	USB CHARGER/RECEPT. DEVICE MT. +18" AFF TO CENTERLINE OF BOX UNLESS OTHERWISE NOTED. (HUBBELL #USB20C5I)
	FLOOR MOUNTED DUPLEX RECEPTACLE: HUBBELL #S3825/SB3083/B2429 w/HUBBELL #5362-I DEVICE. PVC IS APPROVED IF ACCEPTED BY AUTHORITIES.
J	JUNCTION BOX SIZE AS REQUIRED.
	FUSED HEAVYDUTY FUSED SAFETY SWITCH SIZE AS REQUIRED.
	COMBINATION COMMUNICATION OUTLET (TELEVISION (TV)/COMPUTER (C)/TELEPHONE (P)) w/COVER PLACE. STUB-UP 3/4"c TO ABOVE CEILING FROM BOX.
	SPECIAL OUTLET BY EC, SEE NOTES FOR TYPE, ETC..
SM	MANUAL STARTER WITH PILOT LIGHT TO INDICATE MOTOR RUNNING.
	MAGNETIC STARTER WITH H-O-A SELECTOR SWITCH IN COVER UNLESS NOTED OTHERWISE.
	MOTOR (REFER TO MOTOR CONTROL SCHEDULE)
1	KEYED NOTE SEE NOTES ON THAT SHEET UNLESS NOTED OTHERWISE.
M M	PROVIDE 1-HOT, 1-NEUTRAL AND 1-GROUND ROUTED IN CONDUIT INDICATED
1	MOTOR SYMBOL (REFER TO MOTOR CONTROL SCHEDULE)
FD SD	DUCT DETECTION DEVICE IN UNIT w/REMOTE ANNUCIATOR DEVICES IN CEILING TILE FOR MECHANICAL UNIT SHUT-DOWN BY M.C. E.C. TO WIRE COMPLETE. COORDINATE ALL REQUIREMENTS w/M.C. AND CODE DURING BIDDING AND INSTALLATION.
OS	CEILING MOUNTED INFRARED & ULTRASONIC OCCUPANCY SENSING DEVICE ON CEILING w/POWER PACK AND TRANSFORMER. LSI #OS-OSC-M-WH. WIRE PER MNFR. INSTRUCTIONS. PROVIDE ALL COMPONENTS TO BE COMPATIBLE WITH ASSOCIATED VOLTAGE AND WATTAGES.
	WALL MOUNTED INFRARED & ULTRASONIC OCCUPANCY SENSING DEVICE +48"AFF. w/ALL REQ. HARDWARE. LSI #WS-OS-M-WH WIRE PER MNFR. INSTRUCTIONS. PROVIDE ALL COMPONENTS TO BE COMPATIBLE WITH ASSOCIATED VOLTAGE AND WATTAGES.
T	T-STAT BY M.C. E.C. TO FURNISH AND INSTALL A 4/0 BOX w/3/4"ce STUBBED INTO ACCESSIBLE CEILING SPACE. MOUNT +72" AFF.

STATE OF MISSOURI
MIKE KEHOE
GOVERNOR

STATE OF MISSOURI LLOYD E. MOSS JR. NUMBER E-15907 PROFESSIONAL ENGINEER

04/29/26

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OFFICE OF ADMINISTRATIC
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSCTRUCTI

DEPARTMENT OF NATURAL RESOURCES DIVISION OF STATE PARKS

PROJECT TITLE

UPDATE CCC RESTROOM AND RENOVATE CCC RESTROOM INTO CABIN

WASHINGTON STATE PARK
13041 STATE HIGHWAY 104,
DE SOTO, MISSOURI 63020-700

PROJECT # X2337-01
SITE # 5221
ASSET #
RESTROOM - DAY USE AREA: 7815221007
RESTROOM - SERVICE AREA: 7815221011

REVISION: DATE:
REVISION: DATE:
REVISION: DATE:
ISSUEDATE: April 29, 2026

CAD DWG FILE:
DRAWN BY: TCL
CHECKED BY: LEM
DESIGNED BY: PEL

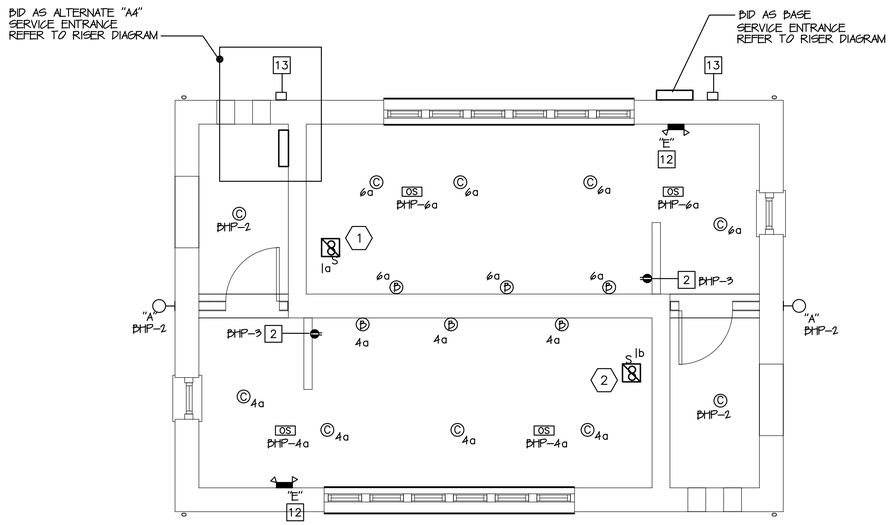
SHEET TITLE:

BUG HOUSE/ THUNDERBIRD-SCHEDULES/DETAILS

SHEET NUMBER:

E-101

35 OF 36 SHEETS
04/29/26



BUG HOUSE TOILET ELECTRICAL PLAN

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

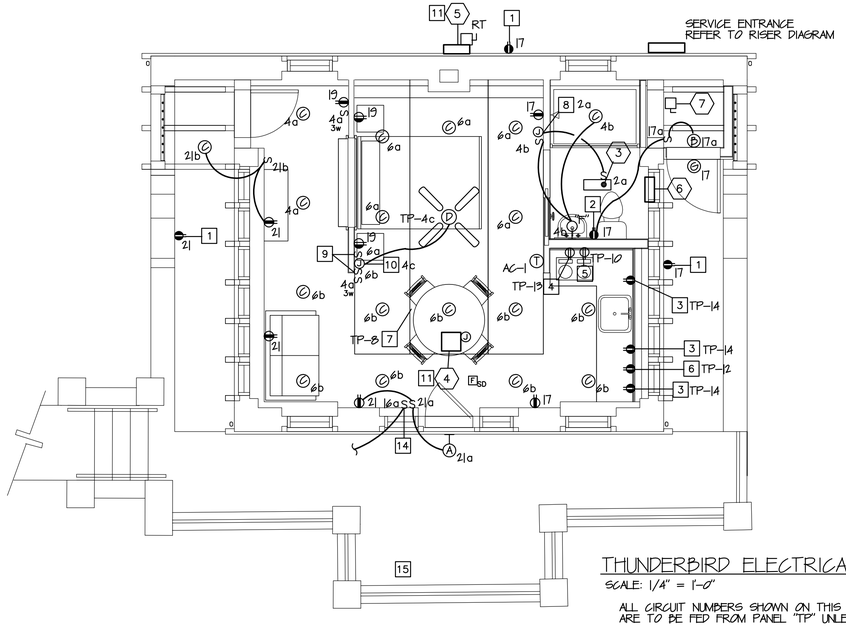
ALL CIRCUIT NUMBERS SHOWN ON THIS PLAN ARE TO BE FED FROM PANEL "BHP" UNLESS NOTED.

MOTOR AND CONTROL SCHEDULE

NUMBER	NAMEPLATE DATA	HORSEPOWER	KILOVOLTAMPERES	VOLTAGE	PHASE	MANUAL STARTER	MAGNETIC STARTER	DISCONNECT SWITCH	FACTORY WIRED TO CONTROL PANEL	PANEL	CIRCUIT NUMBER	WIRE AND CONDUIT	RUNNING CURRENT	SWITCH/CB SIZE	LPN SIZE	REMARKS
1	EXHAUST FAN #1	–	35w	120	1	EC	–	–	–	BHP	1	2#12–1/2"	0.29	–	–	
2	EXHAUST FAN #2	–	35w	120	1	EC	–	–	–	BHP	1	2#12–1/2"	0.29	–	–	
3	EXHAUST FAN #3	–	1.5	120	1	EC	–	–	–	TP	2	2#12–1/2"	12.5	–	–	WIRE CONTROL SWITCH COMPLETE. COORDINATE w/M.C.
4	A/C1a UNIT INTERIOR UNIT	–	–	240	1	–	–	EC	–	–	–	2#10–3/4"	1.0	–	–	PROVIDE UNIT PROTECTION IF REQUIRED
5	A/C1b UNIT EXTERIOR UNIT	–	6.4	240	1	EC	–	EC	–	TP	1	2#8–3/4"	26.7	60	40	FEED THRU TO (4)
6	WALL HEATER	–	2.0	208	1	–	–	–	–	TP	9	2#12–1/2"	8.3	–	–	
7	WATER HEATER	–	4.5	240	1	–	–	EC	–	TP	5	2#10–3/4"	18.7	–	–	
8	NOT USED															
9	NOT USED															

LIGHTING FIXTURE SCHEDULE

Type	Discription	Manufacturer	Catalog Number	Lamp	Finish	Remarks
A	EXTERIOR WALL SURFACE MOUNTED GOOSE NECK	STEEL LIGHTING COMPANY	HIGHLAND PARK 16"	LED 4K A LAMP	GREEN/WHITE	REFER TO ARCH. ELEVATION FOR HEIGHT
B	INTERIOR WALL SURFACE MOUNTED LED SCONCE	SATCO LIGHTING	NUVO SF76–621	LED 4K A LAMP	BLACK	FURNISH w/GLOBE AND GUARD REFER TO ARCH. ELEVATION FOR HEIGHT
C	DECK RECESSED LED PUCK LIGHT w/COLOR ADJUSTMENT	HALO	LED MODULE 4" PUCK	w/LED 4K	WHITE	FURNISH w/FLUSH LENSE AND TRIM RING
D	INTERIOR CEILING FAN	AS SELECTED	AS SELECTED	NA	AS SELECTED	PROVIDE w/SPEED CONTROLLER
E	INTERIOR WALL SURFACE MOUNTED 90min. TWIN HEAD EMERGENCY LIGHT	LSI	LTEM–WH	w/UNIT	WHITE	MT. +8'–6" AFF
F	INTERIOR WALL SURFACE MOUNTED LED SCONCE	SATCO LIGHTING	NUVO SF76–621	LED 4K A LAMP	WHITE	FURNISH w/GLOBE AND GUARD REFER TO ARCH. ELEVATION FOR HEIGHT
G	EXTERIOR WALL SURFACE MOUNTED LED SCONCE	SATCO LIGHTING	NUVO SF76–621–PC	LED 4K A LAMP	BLACK	FURNISH w/GLOBE, GUARD AND PHOTOCELL MT. ABOVE DOOR HEADER
H	EXTERIOR COLUMN RECESSED MOUNTED LED SCONCE	HINKLEY LIGHTING	15232BK	LED 2.7K 1.2w LAMP	BLACK	FURNISH w/ALL HARDWARE REQUIRED MT. IN COLUMN AS DIRECTED BY ARCH.



THUNDERBIRD ELECTRICAL PLAN

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

ALL CIRCUIT NUMBERS SHOWN ON THIS PLAN ARE TO BE FED FROM PANEL "TP" UNLESS NOTED.

KEYED NOTES:

1. GFCI DEVICE MOUNT +24" AFF HORIZONTAL RECESSED IN WALL.
2. GFCI DEVICE MOUNT +44" AFF HORIZONTAL.
3. GFCI DEVICE MOUNT +42" AFF.
4. SPECIAL DEVICE TO MATCH PLUG BY E.C. MOUNT +24" AFF.
5. RECEPTACLE BY E.C. FOR MICROWAVE OVEN/HOOD. REFER TO ARCHITECTURAL CABINET ELEVATION FOR MOUNTING.
6. RECEPTACLE BY E.C. FOR UNDER COUNTER REFRIGERATOR. MOUNT DEVICE +18"AFF VERIFY EXACT LOCATION w/ARCH.
7. LOCAL SMOKE DETECTION DEVICE WIRE COMPLETE. MOUNT ON SIDE WALL OF COFFER AS DIRECTED BY ARCHITECT.
8. E.C. TO INSTALL A MULTI-CONTROL SWITCH FOR BATH FAN. COORDINATE w/M.C.
9. E.C. TO FURNISH AND INSTALL A DIMMER SWITCH.
10. E.C. TO FURNISH AND INSTALL A CONTROL SWITCH FOR CEILING FAN.
11. E.C. TO WIRE AC SYSTEM COMPLETE LEAVING READY FOR OPERATION. COORDINATE FINAL REQUIREMENTS WITH M.C. DURING BIDDING AND INSTALLATION.
12. E.C. TO WIRE EMERGENCY AHEAD OF SWITCH LEG IN AREA FOR CONSTANT HOT HOT POWER SOURCE.
13. E.C. TO FURNISH AND INSTALL A PHOTOCELL MOUNTED TIGHT TO UNDERSIDE OF EAVE WITH SENSOR FACING NORTH. WIRE COMPLETE FOR CIRCUIT INDICATED.
14. E.C. TO ROUTE 2#12–THHN–CU w/GND. IN 3/4" PVC CONDUIT OUT TO TWELVE (12) TYPE "H" RECESSED PIER MOUNTED LED PUNK LIGHT FIXTURES. COORDINATE EXACT FIXTURE LOCATIONS w/ARCHITECTURAL SITE PLAN. VERIFY ROUTING IN FIELD WITH CIVIL AND WALL CONSTRUCTION.
15. E.C. TO FURNISH AND INSTALL TRANSFORMER FOR TYPE "H" FIXTURE IN A WP ENCLOSURE IN GRADE PLACED CENTERED ON FIXTURE LOCATIONS TO PREVENT VOLTAGE DROP. FEED OUT TO FIXTURES WITH APPROVED CABLING IN CONDUIT TO RECESSED WP JUNCTION BOX AT THE BASE OF EACH PIER. FEED UP TO RECESSED TYPE "H" FIXTURE IN PIER.

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CLA Project #2410

Lloyd E. Moss
Professional Engineer
Missouri #E-15907

MISSOURI STATE
CERTIFICATE of AUTHORITY
Number 2001029034

The Professional Engineer's seal/signature affixed to this sheet applies only to the material and items shown on this sheet. All drawings, instruments or other documents not exhibiting this shall not be considered prepared by this Engineer and this Engineer expressly disclaims any and all responsibilities for such plans, drawings, documents, etc. which do not exhibit this seal/signature.

STATE OF MISSOURI
MIKE KEHOE
GOVERNOR



04/29/26

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DRAWN BY: TCL
CHECKED BY: LEM
DESIGNED BY: PEL

SHEET TITLE:

BUG HOUSE/
THUNDERBIRD-
FLOOR PLANS

SHEET NUMBER:

E-102

36 OF 36 SHEETS
04/29/26