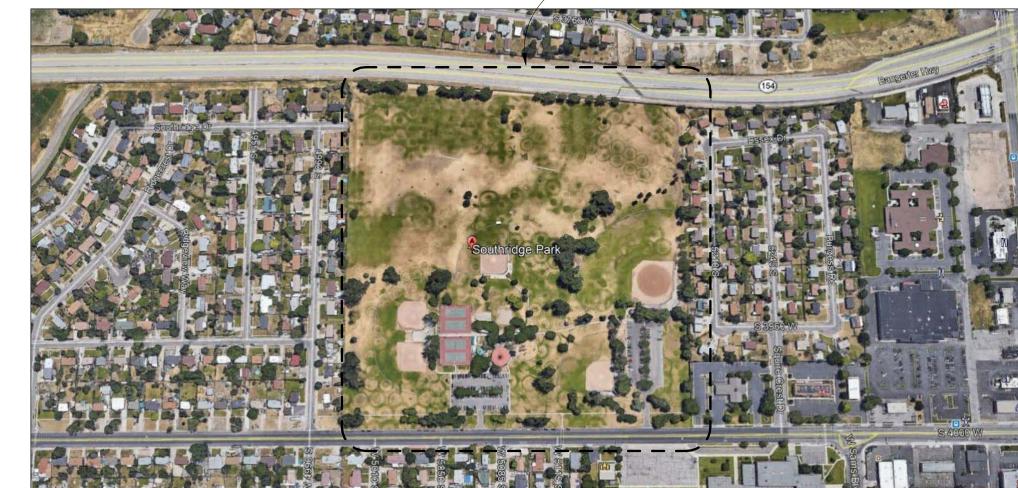
# SOUTHRIDGE PARK NEW RESTROOMS BUILDING 2

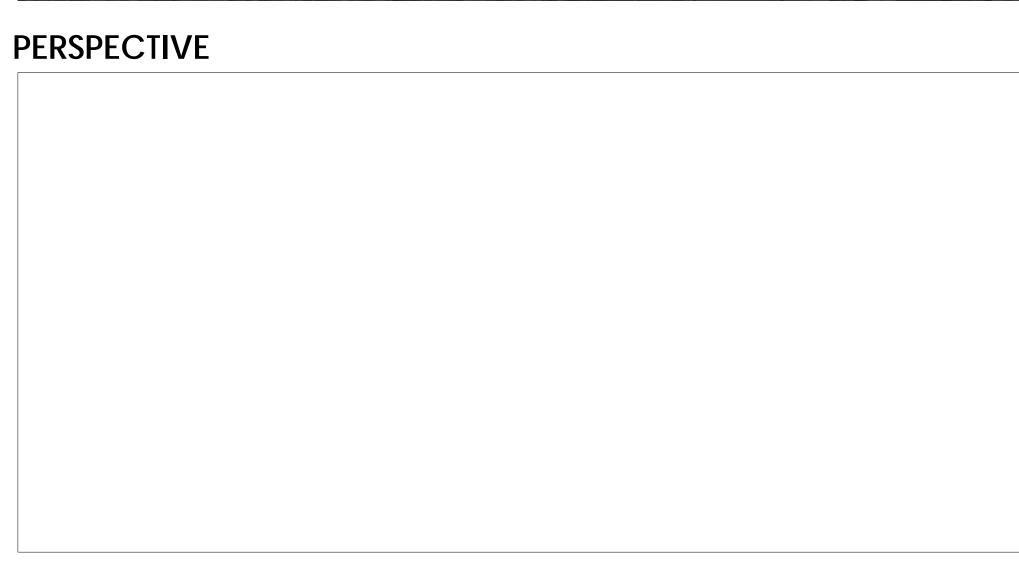
**PERMIT SET** 

5051 SOUTH 4015 WEST TAYLORSVILLE, UTAH

**VICINITY MAP:** 

PROJECT LOCATION





**DRAWING INDEX:** G001 TITLE SHEET GI002 GENERAL NOTES LEGENDS ABBREVIATIONS GI003 ADA REQUIREMENTS GI004 ADA SIGNS - PICTOGRAMS / CODE ANALYSIS - CODE S101 GENERAL STRUCURAL NOTES S102 GENERAL STRUCURAL NOTES S201 FOOTING AND FOUNDATION PLAN S202 ROOF FRAMING PLAN S301 SCHEDULES S302 SCHEDULES \$501 FOOTING AND FOUNDATION DETAILS L-D101 DEMOLITION PLAN L-D501 EROSION CONTROL NOTES & DETAILS L-L101 GRADING, LANDSCAPE AND LAYOUT PLANS L-L501 SITE AND LANDSCAPE DETAILS L-R101 IRERIGATION DETAILS L-R501 IRRIGATION DETAILS AS-101 ARCHITECURAL SITE PLAN AS101 VICINITY MAP. SITE PLAN, SITE DEMO PLAN AE101 FLOOR PLAN, ROOF PLAN & FINISH SCHEDULE AE110 REFLECTED CEILING PLAN AE201 ELEVATIONS AE301 BUILDING SECTIONS AE302 BUILDING SECTIONS AE410 INTERIOR ELEVATIONS AE501 DETAILS MG001 MECHANICAL & PLUMBING LEGEND & GENERAL NOTES ME101 MECHANICAL PLAN ME501 MECHANICAL & PLUMBING DETAILS ME601 MECHANICAL & PLUMBING SCHEDULES PE101 PLUMBING PLAN E001 SYMBOLS, SCHEDULES AND NOTES E002 SCHEDULES AND NOTES E101 ELECTRICAL SITE PLAN E201 ELECTRICAL LIGHTING PLAN E301 ELECTRICAL POWER AND SYSTEMS PLAN E701 ELECTRICAL DIAGRAMS

**OWNER** | SALT LAKE COUNTY FACILITIES MANAGEMENT

2001 SOUTH STATE SALT LAKE CITY, UT 84190 PHONE: 385.468.0339 NAME: RYAN HENRIE

LANDSCAPE | ARCSITIO DESIGN, INC

1058 W 2100 SOUTH SALT LAKE CITY, UT 84106 PHONE: 801.487.4923 NAME: ERIC POWELL

STRUCTURAL MJ STRUCTURAL ENGINEERS

> 5673 SOUTH REDWOOD ROAD TAYLORSVILLE, UT 84123 PHONE: 801.905.1097 NAME: MATT JACKSON

MECH/PLUMB | WHW ENGINEERING INC

8619 SANDY PARKWAY SANDY, UT 84070 PHONE: 801.466.4021 NAME: WIN PACKER

**ELECTRICAL** BNA CONSULTING

635 SOUTH STATE STREET SALT LAKE CITY, UT 84111 PHONE: 801.532.2196 NAME: GOPICHAND PULIVARTHI salt lake city, ut 84105

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NOT FOR CONSTRUCTION

ARCHITECT / CONSULTANT

**AUTHORITY HAVING JURISDICTION** 

**SOUTHRIDGE PARK NEW** RESTROOMS BUILDING 2

5051 SOUTH 4015 WEST TAYLORSVILLE, UTAH

SHEET NAME:

TITLE SHEET

REVISIONS

Mark date DESCRIPTION

**ISSUE DATE:** ISSUE TYPE:

09.19.19 PERMIT SET DRAWN BY: AJL CHECKED BY: K RIGBY

1930.01

SHEET NUMBER:

PROJECT#:

CONSTRUCTION OF THIS PROJECT AND IS RESPONSIBLE TO COORDINATE ALL

INCLUDED IN SPECIFICATIONS. ITEMS LISTED IN SPECIFICATIONS MAY NOT BE

INCLUDED IN DRAWINGS.

SMALL SCALE DRAWINGS.

PROJECT SPECIFICATIONS.

CONTRACTOR BEFORE CONSTRUCTION.

AMERICANS WITH DISABILITIES ACT (ADA).

SUBMITTALS.

INSPECTION.

WORKING ORDER.

THROUGH THE OWNER.

CODE SUMMARY, SHEET G1004.

CLEAN (BROOM) CONDITION DAILY.

SHOWN ON PLAN.

DRAWINGS AND SPECIFICATIONS WITH ALL SUBCONTRACTORS REGARDLESS OF

LOCATION IN CONTRACT DOCUMENTS. ITEMS LISTED IN DRAWINGS MAY NOT BE

CONTRACT (N.I.C.) OR EXISTING, ALL ITEMS, MATERIALS AND INSTALLATION OF SAME

COMPONENTS AND ASSEMBLIES REQUIRED FOR THE WORK DEPICTED OR SPECIFIED.

THE GENERAL CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS

MATERIALS INCLUDING THOSE FURNISHED BY SUBCONTRACTORS. THE GC SHALL

DISCREPANCIES BETWEEN PORTIONS OF THE CONTRACT DOCUMENTS ARE NOT

INTENDED. THE GENERAL CONTRACTOR IS TO CLARIFY WITH THE ARCHITECT ANY

DIMENSIONS TAKE PRECEDENCE OVER DRAWINGS: DO NOT SCALE DRAWINGS TO

DISCREPANCY PRIOR TO CONTINUING WITH WORK. CHANGES IN THE WORK TO BE

DOCUMENTED IN WRITING AND APPROVED IN WRITING PRIOR TO BEING STARTED -

ALL PLAN DIMENSIONS ARE FROM GRIDLINE OR FACE OF STUD OR FACE OF BLOCK

COORDINATION/ CHANGES WITH THE CONTRACT DOCUMENTS. COORDINATION /

APPROVAL SHALL TAKE PLACE BEFORE THE WORK BEGINS. ALL CHANGES TO THE

UNLESS OTHERWISE INDICATED. SEE SECTION ON "DIMENSIONING" THIS SHEET.

8 THE CONTRACTOR SHALL REPORT TO THE ARCHITECT ALL CONDITIONS REQUIRING

9 DETAILED DRAWINGS AND LARGER SCALE DRAWINGS TAKE PRECEDENCE OVER

10 THE ARCHITECT WILL REVIEW SHOP DRAWINGS AND SAMPLES FOR CONFORMANCE

ITEM SHALL NOT INDICATE APPROVAL OF AN ASSEMBLY IN WHICH THE ITEM

WITH DESIGN CONCEPT OF THE PROJECT. THE ARCHITECT'S REVIEW OF A SEPARATE

FUNCTIONS. THE ARCHITECT WILL NOT REVIEW SHOP DRAWINGS UNTIL THE GC HAS

REVIEWED AND STAMPED THE SHOP DRAWING/SUBMITTAL. THE GC IS RESPONSIBLE

ARCHITECT'S REVIEW OF THE SHOP DRAWINGS SHALL NOT OVERRIDE THE CONDITIONS

DESCRIBED IN THE CONTRACT DOCUMENTS UNLESS SPECIFICALLY NOTED OTHERWISE

DETAILS OR APPROVED SHOP DRAWINGS / DATA SHEETS IN ACCORDANCE WITH THE

12 FOR GRADING, TRENCHING ETC., CONTACT THE ARCHITECT FOR INSTRUCTIONS PRIOR

TO THE CONTINUATION OF WORK SHOULD ANY UNUSUAL CONDITIONS BECOME

ELEVATIONS AND LOCATIONS TO BE JOINED SHALL BE VERIFIED BY THE GENERAL

13 ALL WORK, MATERIALS AND METHODS SHALL BE IN CONFORMANCE WITH THE CODES.

ORDINANCES AND REGULATIONS OF ALL GOVERNMENTAL AGENCIES HAVING

JURISDICTION AT THE PROJECT LOCATION. THE GENERAL CONTRACTOR MUST

14 ALL PROJECT CONSTRUCTION SHALL CONFORM WITH ANSI A-117.1-2009, AND THE

15 THE GENERAL CONTRACTOR SHALL NOTIFY ALL APPLICABLE LOCAL GOVERNING

AUTHORITIES AND UTILITIES PRIOR TO COVERING UP ANY WORK REQUIRING

16 THE GENERAL CONTRACTOR SHALL MAINTAIN ALL REQUIRED EXITS AND FIRE LANES IN

17 A GENERAL BUILDING PERMIT IS NOT REQUIRED PERMITTING BY SALT LAKE COUNTY.

ALL FEES SHALL BE SECURED BY THE GENERAL CONTRACTOR AND REIMBURSED

18 THE GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL FIRE EXTINGUISHERS WHERE

19 MINIMUM FLAME SPREAD CLASSIFICATION OF INTERIOR FINISH SHALL CONFORM TO

20 THE GENERAL CONTRACTOR SHALL PROVIDE AND IS SOLELY RESPONSIBLE AND LIABLE

CODES, INCLUDING EXTERIOR AND INTERIOR PEDESTRIAN TRAFFIC BARRIERS. ALL

22 ALL DEBRIS SHALL BE REMOVED FROM PREMISES AND ALL AREAS SHALL BE LEFT IN A

AND OR CALL BLUE STAKES TO LOCATE ALL EXISTING UTILITIES, WHETHER SHOWN HEREIN OR NOT, AND WHEN IDENTIFIED TO PROTECT THEM FROM DAMAGE. THE

GENERAL CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT OF

WORKMEN. ALL CONSTRUCTION SETS SHALL REFLECT THE SAME INFORMATION. THE

COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA AND CHANGE ORDERS, ON

23 IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO COORDINATE

IDENTIFIED UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN

24 APPROVED PLANS SHALL BE KEPT IN A PLAN BOX AND SHALL NOT BE USED BY

GENERAL CONTRACTOR SHALL ALSO MAINTAIN, IN GOOD CONDITION, ONE

25 THE GENERAL CONTRACTOR IS TO PROVIDE GROUTED CELLS AS REQUIRED FOR

26 THE GENERAL CONTRACTOR IS RESPONSIBLE FOR RECEIVING, UNLOADING,

THE PREMISES AT ALL TIMES. THESE ARE TO BE KEPT UNDER THE CARE OF THE JOB

MOUNTING OF HC GRAB BARS AND PARTITION BRACES AND ALL OTHER ITEMS

IDENTIFIED ON THE EQUIPMENT OR ACCESSORY SCHEDULE. BLOCKING SHALL BE FIRE

UNCRATING, INSTALLATION AND HOOK-UP OF ALL OWNER FURNISHED ITEMS UNLESS

PRESENT PRIOR TO CORE DRILLING OR PLACING BOLTS OR ANY OTHER ITEM WHICH

CONJUNCTION WITH THE EXECUTION OF THE WORK.

TREATED WHERE REQUIRED BY THE BUILDING CODE.

NOTED OTHERWISE ON THE DRAWINGS.

WORK SHALL CONFORM TO THE ORDINANCES AND REGULATIONS OF

GOVERNMENTAL AGENCIES HAVING JURISDICTION AT THE PROJECT.

FOR PUBLIC AND EMPLOYEE PROTECTION AS NECESSARY AND AS REQUIRED BY THE

THE BUILDING CODE AND LOCAL GOVERNING BUILDING CODES/ORDINANCES. SEE

COMPLY WITH THE CONTRACTOR REGISTRATION REQUIREMENTS OF ALL GOVERNING

APPARENT DURING GRADING OR FOUNDATION CONSTRUCTION. EXISTING

FOR FIELD VERIFYING ALL DIMENSIONS SHOWN ON THE SHOP DRAWINGS. THE

BY THE ARCHITECT. WORK SHALL NOT PROCEED WITHOUT RETURNED REVIEWED

11 FOR CONSTRUCTION DETAILS NOT SHOWN, USE THE MANUFACTURER'S STANDARD

CONTRACT COST SHALL BE APPROVED THROUGH A CHANGE ORDER.

DETERMINE ANY LOCATIONS. THE ARCHITECT SHALL BE NOTIFIED OF ANY

SUCH DISCREPANCIES DURING BIDDING AND PRIOR TO COMMENCING WORK.

THE SITE AND EXISTING STRUCTURES AT THE TIME OF BIDDING.

PRIOR TO BEGINNING ANY WORK AND SHALL BE RESPONSIBLE FOR ALL WORK AND

ACCEPT PREMISES AS FOUND. OWNER WILL MAINTAIN THE EXISTING CONDITION OF

AND SPECIFICATIONS. THE GC SHALL PROVIDE AND INSTALL ALL ACCESSORIES,

ARE PART OF THE CONTRACT AS DEFINED BY THE ENTIRE CONSTRUCTION DOCUMENTS

32 UNLESS OTHERWISE NOTED, ALL EXTERIOR AND INTERIOR METAL, TRIM, FRAMES, ETC...

33 FOR PLUMBING, FIRE SPRINKLER AND ELECTRICAL SYSTEMS, PROVIDE APPROVED ASSEMBLIES WITH SELF CLOSING DEVICES FOR ANY PENETRATIONS IN RATED CONSTRUCTION.

ACCESS PANELS WITH MECHANICAL, FIRE SPRINKLER AND PLUMBING PLANS. ACCESS PANELS SHALL BE FURNISHED AND INSTALLED EQUAL TO THE WALL OR CEILING UNLESS OTHERWISE INDICATED IN THE CONSTRUCTION DOCUMENTS AS BEING NOT IN ASSEMBLY INTO WHICH THEY ARE TO BE INSTALLED. FINISH AND LOCATION SHALL BE APPROVED BY THE ARCHITECT.

> THE GC SHALL VERIFY DIMENSIONS OF ALL EQUIPMENT PADS & BASES WITH OPENINGS ON ROOF AND INTERIOR SHAFTS.

ajc architects 703 east 1700 south salt lake city, ut 84105 ajcarchitects.com

NOT FOR CONSTRUCTION

PROJECT DESCRIPTION Parks & Recreation
2001 South State St, S4-700
SALT LAKE
Solt Lake City JJT 84100 COUNTY Salt Lake City, UT 84190

SOUTHRIDGE PARK NEW RESTROOMS BUILDING 2

5051 SOUTH 4015 WEST

**GENERAL NOTES** LEGENDS

MARK DATE

**DESCRIPTION** 

**NOTES TO BIDDERS:** 

IN ANY AND ALL SHEETS OF DRAWINGS AND SPECIFICATIONS.

HVAC WILL BE PROVIDED, PLUMBING AND POWER WILL BE PROVIDED AS INDICATED

1. UNDERGROUND FIRE LINE / HYDRANT WORK

ISSUE DATE: 08.31.19 ISSUE TYPE: PERMIT SET DRAWN BY: AJL CHECKED BY: K RIGBY PROJECT#: 1930.01

SHEET NUMBER:

THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL WORK REGARDLESS OF THE LOCATION OF THE INFORMATION IN THE DOCUMENTS. THE GENERAL CONTRACTOR SHALL UTILIZE THE COMPLETE & ENTIRE CONSTRUCTION DRAWINGS AND WRITTEN SPECIFICATIONS FOR ALL REQUIRED INFORMATION TO PROVIDE COMPLETE

SHALL BE PAINTED.

34 THE GC SHALL VERIFY LOCATIONS OF ALL PLUMBING CHASES W/ DOOR & WALL

EQUIPMENT MANUFACTURERS & SHALL VERIFY ALL SIZES AND LOCATIONS OF DUCT

ARCHITECT / CONSULTANT

**AUTHORITY HAVING JURISDICTION** 

PARKS & RECREATION

TAYLORSVILLE, UTAH

SHEET NAME:

**ABBREVIATIONS** 

REVISIONS

SCOPE OF WORKS

NEW STAND ALONE CMU RESTROOM FACILITY WITH MULTIPLE WATER CLOSETS, URINALS, AND LAVATORIES. BUILDING WILL ALSO HAVE A STORAGE ROOM. NO ON DRAWINGS.

CONTRACTOR, SUBCONTRATOR, VENDOR OR ANY OTHER PERSON PARTICIPATING

IN BIDDING THIS PROJECT SHALL BE RESPONSIBLE FOR INFORMATION CONTAINED

**DEFERRED SUBMITTALS:** 

28 PROVIDE GALVANIC PROTECTION BETWEEN DISSIMILAR MATERIALS WHERE REQUIRED.

COULD DISTURB THE STRUCTURAL SLAB OR FOUNDATION WALLS.

GRAVEL

**GRID HEAD** 

WORK POINT OR ELEV. BENCH MARK

DIAMETER OR ROUND

NORTH ARROW

**DETAIL TAGS** 

- PAGE WHERE FOUND

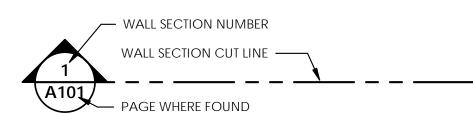
DETAILED AREA

– Detail Number –

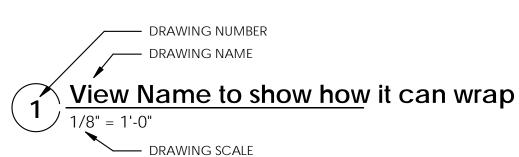
DETAIL CUT LINE A101

 WALL SECTION NUMBER WALL SECTION CUT LINE — PAGE WHERE FOUND

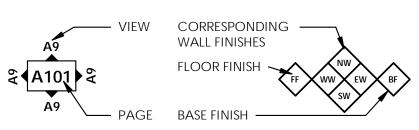
**BUILDING SECTION TAG** 



DRAWING TITLE



## **ELEVATION TAGS ROOM FINISH TAG**



# MISCELLANEOUS KEYED NOTE SYMBOLS

WINDOW/CURTAIN WALL DESIGNATION. SEE WINDOW SCHEDULE.

KEYNOTE

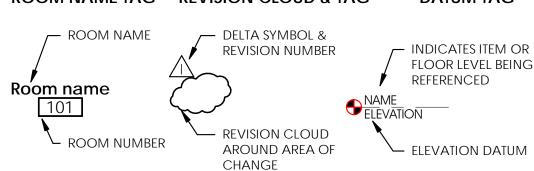
GLAZING MODIFIER

GLAZING DESIGNATION. DOOR DESIGNATION. SEE DOOR SCHEDULE

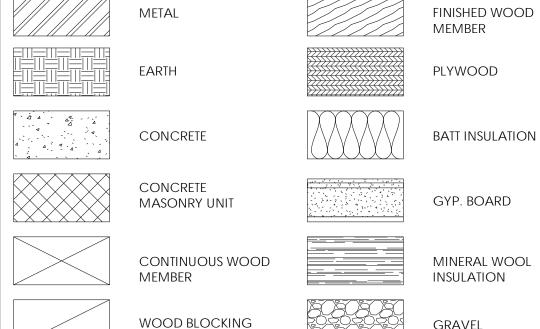
WALL, FLOOR, CEILING, ROOF TYPE DESIGNATION. SEE APPROPRIATE

TYPE SHEETS. WALL, FLOOR, BASE, CEILING FINISH TAG. THIS SYMBOL WHEN ATTACHED TO A WALL SHALL INDICATE THIS FINISH FOR ENTIRE LENGTH OF WALL FROM ONE INTERSECTION TO THE NEXT AND NOT

DATUM TAG ROOM NAME TAG REVISION CLOUD & TAG



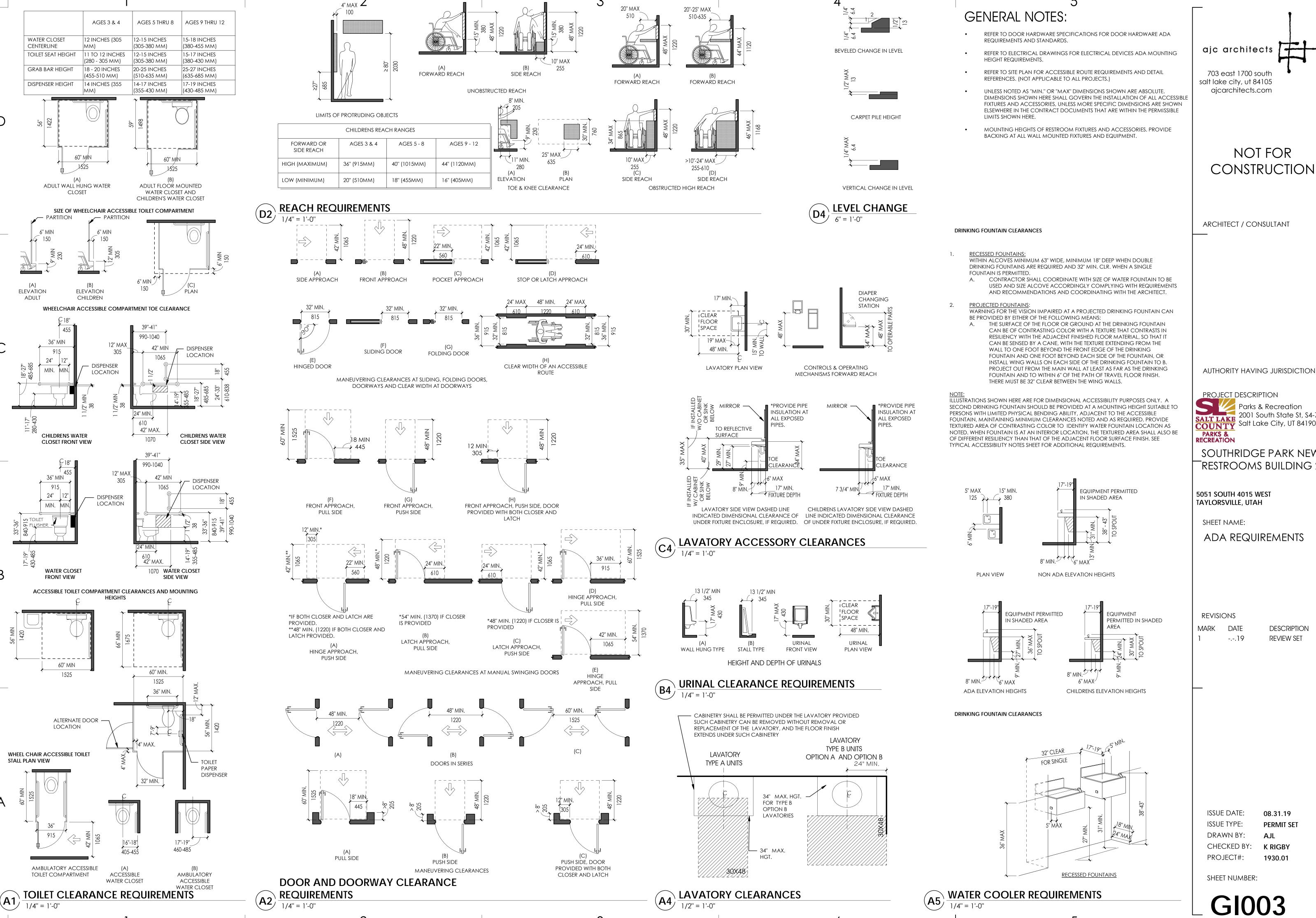
# SECTION MATERIALS LEGEND



PLASTER OR STUCCO **RIGID INSULATION** 

SUPERINTENDENT.

27 THE GENERAL CONTRACTOR IS TO ASSURE THAT NO REBAR OR REINFORCEMENT IS





# NOT FOR CONSTRUCTION

ARCHITECT / CONSULTANT

PROJECT DESCRIPTION

Parks & Recreation
2001 South State St, S4-700
Salt Lake City, UT 84190 COUNTY Salt Lake City, UT 84190 RECREATION

# SOUTHRIDGE PARK NEW RESTROOMS BUILDING 2

5051 SOUTH 4015 WEST

ADA REQUIREMENTS

MARK DATE

**DESCRIPTION REVIEW SET** -.-.19

SHEET NUMBER:

08.31.19

AJL

K RIGBY

1930.01

**PERMIT SET** 

DOOR SIGNAGE

SIGNS - PICTOGRAMS

1 1/2" = 1'-0"

# JAN/STORAGE SURFACE MOUNTED FIRE EXTINGUISHER. 4'-0" L \_ \_ \_ \_ \_ J <del>/ \</del> 4'-0" <del>-----</del> L \_ \_ \_ \_ \_ <del>|</del> J 5'-0"

**GOVERNING BUILDING CODES**:

ALL CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING CODES:

2018 INTERNATIONAL BUILDING CODE (IBC) 2018 INTERNATIONAL PLUMBING CODE (IPC) 2018 INTERNATIONAL MECHANICAL CODE (IMC)

2018 INTERNATIONAL FIRE CODE (IFC) NATIONAL FIRE PROTECTION ASSOCIATION CODES (IN TOTAL) ASHRAE 90-1--2010 AND SUBSEQUENT ADDENDA

2017 NATIONAL ELECTRIC CODE (NEC) 2018 INTERNATIONAL ENERGY CODE (WITH STATE AMENDMENTS)

ICC A117.1-12009 ACCESSIBILITY CODE IAQ GUIDELINES FOR OCCUPIED BUILDINGS UNDER CONSTRUCTION (SMACNA) AMERICANS WITH DISABILITIES ACT (ADA)

# **CODE ANALYSIS:**

2018 LIFE SAFETY CODE

CHAPTER 3 USE AND OCCUPANCY CLASSIFICATION: GROUP U - UTILITY AND MISCELLANEOUS

# **CONSTRUCTION TYPE (IBC TABLE 601)**:

IBC SECTION 503/ TABLE 503 ALLOWABLE HEIGHT AND BUILDING AREAS:

ALLOWABLE AREA = 5,500 S.F. ALLOWABLE HEIGHT = 1 STORY = 40 FEET

ACTUAL AREA = 777 S.F. ACTUAL HEIGHT = 1 STORY, 16 FEET

ARCHITECT / CONSULTANT

ajc architects

703 east 1700 south

ajcarchitects.com

NOT FOR

CONSTRUCTION

salt lake city, ut 84105

AUTHORITY HAVING JURISDICTION

PROJECT DESCRIPTION Parks & Recreation
2001 South State St, S4-700
Salt Lake City, UT 84190

RECREATION SOUTHRIDGE PARK NEW RESTROOMS BUILDING 2

5051 SOUTH 4015 WEST

TAYLORSVILLE, UTAH

SHEET NAME:

PARKS &

ADA SIGNS -PICTOGRAMS / CODE ANALYSIS - CODE

REVISIONS

PLAN

MARK DATE -.-.19

**REVIEW SET** 

DESCRIPTION

ISSUE DATE: 08.31.19 ISSUE TYPE:

**PERMIT SET** DRAWN BY: AJL CHECKED BY: K RIGBY

1930.01

SHEET NUMBER:

PROJECT#:

A5 CODE PLAN

1/4" = 1'-0"

DOTS RAISED MINIMUM 0.025 INCH ABOVE BACKGROUND.

0.2 INCH SPACE BETWEEN CELLS.

SEE 4/T-4 FOR MORE INFO.

USE CONTRASTED GRADE 2 BRAILLE. DOTS TO BE 0.1 INCH ON CENTER IN EACH CELL.

SEE SHEETS AE201 & AE

DETAIL AND LOCATION.

**501 FOR SIGNAGE** 

1-1/2"

Omissions or conflicts between the contract drawings and/or specifications shall be brought to the attention of the architect/engineer before proceeding with any work involved. In case of conflict, follow the most stringent requirement as directed by the architect/engineer at no additional cost to the owner.

The contractor shall be responsible for means, methods, techniques, sequences, and procedures in order to comply with the contract drawings and specifications. The contractor shall provide adequate shoring and bracing as required for the chosen method of erection. Shoring and bracing shall remain in place until final connections for the permanent members are completed. The building shall not be considered stable until all connections are completed. Walls shall not be considered self-supporting and shall be braced until the floor/roof system is

The contractor shall coordinate with all trades any items that are to be integrated into the structural system such as openings, penetrations, mechanical and electrical equipment, etc. Sizes and locations of mechanical and other equipment that differs from those shown on the contract drawings shall be reported to the architect/engineer.

The contractor shall submit a written request to the architect/engineer before proceeding with any changes, substitutions, or modifications. Any work done by the contractor before receiving written approval will be at the contractor's risk.

The contractor shall verify all site conditions and dimensions. If actual conditions differ from those shown in the contract drawings, the contractor shall immediately notify the architect/engineer before proceeding with the fabrication or construction of any affected

The structural notes are intended to complement the project specifications. Specific notes and details in the drawings shall govern over the structural notes and typical details.

Typical details and sections shall apply where specific details are not shown. Detailing and shop drawing production for structural elements will require information (including dimensions) contained in the architectural, structural and/or other consultants' drawings. The structural drawings shall be used in conjunction with the architectural and other consultants' drawings. Most dimensions and most non-structural elements such as elevations, depressions, slopes, mechanical housekeeping pads, etc. are not shown in the structural drawings. See the Architectural Drawings for dimensions, doors, windows, non-bearing interior and exterior walls, elevations, slopes, stairs, curbs, drains, recesses, depressions, railings, waterproofing, finishes, chamfers, kerfs, etc.

Shop drawings made from reproductions of the drawings will be rejected unless the contractor signs a release agreement prior to the shop drawings being reviewed.

Review of shop drawing submittals by the engineer is for general compliance only and is not intended for approval. The shop drawing review shall not relieve the contractor from the responsibility of completing the project according to the contract documents.

All work shall be done in accordance with OSHA requirements. Potential conflicts between these documents and OSHA requirements shall be brought to the attention of the structural engineer before proceeding with the work. Site observations by the engineer and or architect shall not be construed as approval of

construction, the procedures, nor special inspection. The terms "Engineer" and "Engineer of Record" (EOR) are meant to refer to an authorized representative of M J Structural Engineers.

# **BASIS FOR DESIGN**

1. 2.	Govering Building Code Risk Category	IBC 2018 <u>II</u>
3.	Roof Snow Load Ground Snow Load Flat Roof Snow Load Snow Exposure Factor	P/g = 43 psf P/f = 36 psf C/e = 1.0
•	Thermal Factor Snow Load Importance Factor	C/C = 1.0 C/C = 1.0 I/Snow = 1.0
4. - • 5.	Wind Load Basic Wind Speed (3 Second Gust) Wind Exposure Internal Pressure Coefficient Seismic Design Criteria	103 mph C ± 0.18
•	Mapped Spectral Response Accelerations Short Period Acceleration 1-Second Acceleration Site Class (Soil Profile) Spectral Response Coefficients	<u>S/S = 1.258</u> <u>S/1 = 0.441</u> <u>D</u>
•	Short Period Acceleration Seismic Importance Factor Seismic Design Category Effective Structural Seismic Weight Basic Seismic Force Resisting System	S/DS = 0.839 I/Seismic = 1.0 D W Special CMU Shearwalls
•	Response Modification Coefficient System Over-Strength Factor Deflection Amplification Factor Design Base Shear Analysis Procedure	$\frac{R=5}{\Omega/0=2.5}$ $\frac{C/D=3.5}{V=C/S*W=0.1678W}$ Equivalent Lateral Force

# FOUNDATION

Soils Investigation Report: 1500 psf - Assumed for Design Soil Bearing Pressure: Frost Protection: 30 inches minimum

Clear excavations of debris and loose soil prior to placing footings. All footings shall bear on undisturbed natural sub-grade or engineered compacted fill as noted in these drawings.

# **EARTHWORK**

Clearing: Remove all existing structures and associated foundations, slabs, fencing, asphalt, concrete, and incidental structures as necessary for project completion. The entire building area, including 3 feet beyond the building perimeter, shall be scraped to the depth necessary (4" minimum) to remove all vegetation, topsoil, loose/disturbed surficial soils, debris, and any other deleterious materials. Following stripping, all undocumented fill soils and any remaining loose natural soils shall be excavated to expose competent

Proof roll the entire building pad area to check for the presence of unsuitable fills, soft spots, or other undesirable materials or conditions. Remove sub-grade materials that are unsuitable and replace with compacted structural fill or 2,000 psi lean concrete.

Compacted structural fill: All fill material shall be a well-graded granular material with a maximum size less than 3" and with not more than 15% passing a #200 sieve. It shall be compacted to at least 95% of the maximum laboratory density as determined by ASTM D 1557 for fill beneath footings and 90% for fill beneath floor slabs. All fill shall be tested. Compacted structural fill shall be placed in lifts not exceeding

Floor slabs thicknesses shall be as indicated in the plans and underlain by a granular layer at least 4" thick. The granular fill shall be free-draining fill such as "pea" gravel or three-quarters- to one-inch minus clean gap-graded gravel with not more than 5% passing a #200 sieve and shall be compacted to at least 90% of the maximum laboratory density as determined by ASTM D 1557.

# **MASONRY**

Materials unless noted otherwise: Normal Weight Aggregates ASTM C 33 ASTM C618 Fly Ash, Class F Pozzolan Reinforcing Steel ASTM 615 Grade 60 (60 ksi) General ASTM A496 Deformed Bar Anchors (DBA) ASTM A108 Headed Stud Anchors (HSA)

**CONCRETE** 

Anchor Bolts: See steel and/or wood section(s) of general notes. Admixtures: Air-entraining admixtures shall comply with ASTM C 260 (when used). Calcium chloride shall not be added to the concrete mix. Unreinforced concrete slabs on grade may have calcium chloride not exceeding one Cement complying with ASTM C-150 shall be used for all concrete. See table of concrete properties for cement

No aluminum conduit or product containing aluminum or any other material injurious to concrete shall be

2.								
<b>CONCRETE</b>	<b>EXPOSURE</b>	<b>CEMENT</b>	(MIN)	(MAX) w/	(MAX)	(MAX) AIR	(MAX)	(MAX)
<u>USE</u>	CLASSIFICATION	<u>TYPE</u>	<u>fc</u>	<u>cm</u>	<u>FLAYASH</u>	<u>CONTENT</u>	<u>AGG</u>	SLUMP
Interior Footings	F0 S0 P0 C0	I/II	3000	0.50	30 <u>:NT</u>	<u>2=NT</u>	<u>SI</u> 1" <del>.</del>	5.00'
Exterior Footings	F2 S0 P0 C1	I/II	3000	0.50	30	6	1"	5.00'
Interior SOG	F0 S0 P0 C0	I/II	3500	0.50	30	2	3/4"	5.00'
Interior Walls	F0 S0 P0 C0	I/II	3000	0.50	30	2	3/4"	5.00'
Exterior Walls Above Grade	F1 S0 P0 C1	I/II	4000	0.45	30	5	3/4"	5.00'
Exterior Walls Below Grade	F2 S0 P0 C1	I/II	4000	0.45	30	6	3/4"	5.00'

The contractor shall be responsible for the design, detailing, care, placement and removal of all formwork and

Supporting forms and shoring shall not be removed until structural members have acquired sufficient strength to safely support their own weight and any construction load to which they may be subjected. In no case, however, shall forms and shoring be removed in less than 24 hours after concrete placement.

Reinforcement shall have the following concrete cover: Clear Cover: Cast-in-place Concrete Cast against and permanently exposed to earth

Formed concrete exposed to earth or weather: #6 thru #18 bars #5 and smaller bars

Construction Joints and Control Joints: All horizontal and vertical construction joints, including between top of footing and foundation walls, shall be intentionally roughened to a full amplitude of approximately 1/4".

Install construction or control joints in slabs on grade at a spacing not to exceed 30 times the slab thickness in any direction, unless noted otherwise. Control joints shall be installed in slabs on grade so the length to width ratio of the slab is no more than 1.25:1. Control joints shall be completed within 12 hours of concrete placement. Control joints may be installed by either:

Saw cut with depth of 1/4 the thickness of the slab Tooled joints with depth of 1/4 the thickness of the slab

Construction

Use chairs or other support devices recommended by the CRSI to support bar and tie reinforcement bars. Reinforcing steel for slabs on grade shall be adequately supported on precast concrete units. Lifting the reinforcing off the grade during placement of concrete is not permitted. Contractor shall coordinate placement of all openings, curbs, dowels, sleeves, conduits, bolts, inserts and other embedded

items prior to concrete placement. All embeds and dowels shall be securely tied to formwork or to adjacent reinforcing prior to the placement of concrete. No pipes, ducts, sleeves, etc. shall be placed in structural concrete unless specifically detailed or approved by the structural engineer. Penetrations through walls when approved shall be built into the wall prior to concrete placement.

Penetrations will not be allowed in footings or grade beams unless detailed. Piping shall be routed around these elements

Reinforcing bars shall not be welded. Do not substitute reinforcing bars for DBAs or HSAs. Top of concrete columns shall be flush  $(\pm 1/4)$  with bottom of supported cast-in-place members.

Lap splice lengths shall be detailed to comply with the "Reinforcing Bar Lap Splice Schedule" contained within the contract drawings. Do not splice stirrups and ties. Do not splice vertical bars in retaining walls unless specifically shown. At joints provide reinforcing dowels to match the member reinforcing, unless noted otherwise.

At all discontinuous control or construction slab on grade joints, provide (2) #4 x 48". rovide corner bars at intersecting wall corners using the same bar size and spacing as the horizontal wall reinforcing. All vertical reinforcing shall be doweled to footings, or to the structure below with the same size and spacing as the vertical reinforcing for the element above. Dowels extending into footings shall terminate with a 90° standard hook and shall extend to within 4" of the bottom of the footing. Footing dowels (#8 bars and smaller) with hooks need not extend more than 20"

See details for reinforcing around miscellaneous openings (8" to 36" wide). For openings wider than 36", contact the engineer. All recesses that interrupt reinforcing shall be reinforced the same as an opening.

# MASONRY VENEER

Masonry Veneer Attachment and Reinforceing:

To Wood and Steel Stud Walls: Attach veneer with Hohmann & Barnard "DW-10" or "DW-10HS seismic veneer anchors" (or equal) spaced at 16" on center. Veneer anchors shall be attached to studs with #10 corrosion resistant self-drilling screws. Attach the veneer to the anchors with Hohmann & Barnard 3/16" diameter "Byna-Tie with Seismiclips" (or equal) spaced at a maximum of 16" on center in both directions. Anchor ties shall engage to a galvanized 3/16" horizontal joint reinforcement wire in the veneer, which shall be continuous and shall be placed at 16" on center

maximum at the center of the veneer To Concrete Walls: Attach veneer with H and B 22 gauge galvanized dovetail slots installed vertically in concrete at 16" on center. Attach the veneer to dovetail slots with #303 SV 16 gauge "seismic dovetail anchor ties" (or equal) spaced at a maximum of 16" on center in both vertical and horizontal directions. Anchor ties shall engage to a galvanized a 3/16" gauge horizontal joint reinforcement wire in the veneer, which shall be continuous and shall be placed at 16" on center maximum at the center

of the veneer. Dovetail slots and anchor ties shall be galvanized. To Reinforced Masonry Walls: Attach veneer with "tri-rod ladur type reinforcement" spaced at a maximum of 16" on center vertically consisting of (3) 3/16", galvanized, corrugated, wires. Veneer may also be attached with "Grip-lok ladder with 3/16" box BYNA-TYP with seismic clips (or equal)" spaced a 16" on center maximum in both vertical and horizontal directions. Anchor ties shall engage to a galvanized 3/16" horizontal joint reinforcement wire in the veneer, which shall be continuous and shall be placed at 16" on center maximum at the center of the veneer. Anchors shall extend to the galvanized "ladur type" ((2) 3/16") joint reinforcing in the masonry wall spaced at 16" on center

Other methods of attachment may be used after written acceptance by the architect and structural Steel Lintels: Provide steel angle lintels at all openings through the masonry veneer. Provide 1" of bearing for each

foot of width of opening, with a minimum bearing of 6". See the Steel Angle Lintel Schedule for size.

Materials, unless noted otherwise: Concrete Masonry Units (CMU): Lightweight Grade N, Type 1 f'm = 1900 psi

Mortar: Type "S" 1800 psi compressive strength. Grout shall attain a minimum compressive strength of 3000 psi at 28 days. Reinforcing Steel ASTM 615 Grade 60 (Fy = 60 ksi) ASTM A 951 Wire Joint Reinforcing

ASTM A496 Deformed Bar Anchors (DBA) ASTM A108 Headed Stud Anchors (HSA) ASTM A307 with ASTM A563 heavy hex nuts with ASTM Anchor Bolts

> F436 hardened washers unless noted otherwise. Detailing Requirements:

Standards: Reinforcing detailing shall comply with American Concrete Institute (ACI) Stadard 315, "Details and Detailing of Concrete Reinforcement." Reinforcement shall have the following cover:

Joint reinforcement shall have not less than 5/8" mortar coverage from the exposed face. Other reinforcement shall have a minimum coverage of one bar diameter over all the bars, but not less than 3/4". When masonry is exposed to soil, minimum coverage shall be 1 1/2". Lap all masonry reinforcing according to the "Masonry Reinforcing Bar Lap Splice Schedule"

Lap all masonry reinforcing per bar size as follows: Required lap lengths for single bars centered in each cell: #3 = 18" #6 = 43" #9 = 82"

contained in the contract documents.

#7 = 60" #4 = 22" #5 = 26" #8 = 72" Required lap lengths for 2 bars per cell with 2-1/2: cover: #3 = 18" #6 = 54" #9 = 82" #4 = 22" #7 = 63"

#5 = 32" #8 = 72" Joint reinforcement shall lap a minimum of 6".

All vertical reinforcing shall be doweled to the structure below (foundation wall, footing, etc) with the same size dowel, spacing (and in the same core) as the vertical wall reinforcing above. Corner Bars: Horizontal reinforcement shall be continuous at all corners and at intersecting walls. Provide corner bars with the required lap splice length.

Wall openings 24" wide and wider: For unscheduled openings, provide reinforcing on all sides as shown in the details. Also, for all openings, provide horizontal bar at bottom of opening as shown in the details. Vertical bars shall extend from floor level below to the floor, or roof level above. Horizontal bars for all openings shall extend a minimum of 48 bar diameters beyond the corners of the opening. Where a 48 bar diameter extension is not possible, extend bars as far beyond the opening as possible and terminate the bar(s) with a 90 degree standard ACI hook.

Horizontal reinforcing shall terminate with a standard hook at edge of openings and ends of walls without corner bars as shown in the details. Horizontal wall reinforcing shall terminate with a standard 180 degree hook at each side of control

joints except at floor and roof levels, lintels, beams, and at top of parapets as shown in the details. All masonry column ties shall terminate with 135 degree hooks plus a 6 bar diameter extension (4" minimum).

Construction Requirements: All units shall be laid with full mortar beds on the face shells. All head joints shall be filled solidly with mortar for a distance in from the face of the units not less than the thickness of the longitudinal-face shells. Cells which are to be grouted shall have full head joints. All cells containing reinforcement, embeds, anchor bolts, etc. shall be filled solid with grout. Grout

shall be placed by mechanical vibration during placing and re-vibrated after excess moisture has been absorbed but before workability is lost. Puddling or rodding of grout is not allowed. Grout pours shall be limited to 4'-0" unless high lift grouting procedures are followed. Vertical cells to be filled with grout shall have vertical alignment sufficient to maintain a clear, unobstructed vertical cell measuring not less than 2" by 3". Vertical steel reinforcement shall be placed and secured against displacement prior to grouting by 2.

lift heights, or at bar splice locations, whichever is less. Vertical reinforcing shall be located at the center of the wall, unless noted otherwise. Reinforcing bars shall not be welded. Do not substitute reinforcing bars for DBA's or HSA's. Grout all beam and joist pockets solid after installation of beams and joists.

Embed channels and plates shall be placed so as to create a flush surface with the face of the wall. 3. Anchor bolts and headed stud anchors shall be set in grouted cells.

# WOOD

Dimension Lumber and Timbers (Sawn Lumber) All dimensioned lumber shall comply with USDOC PS20. Visually graded dimension lumber shall be Douglas Fir-Larch #2 or better. Visually graded timbers (5" x 5" and larger) shall be Douglas Fir-Larch #1 or better.

Machine stress rated (MSR) lumber shall be 1600f-1.6E or better. End jointed lumber may be used interchangeably with solid sawn members of the same species and grade with written approval from the Engineer. Wood Structural Panel Sheathing

Wood sheathing shall be APA rated sheathing Exposure 1 unless noted otherwise and shall conform to the requirements for its type in USDOC PS1 or USDOC PS2. The panels must be identified by the trademarks of the approving testing and inspection agency. Wood sheathing minimum thicknesses, span ratings, and nailing requirements shall be as indicated in

the Roof and Floor Sheathing Schedule, unless noted otherw Wood sheathing shall have the following minimum thicknesses and span ratings, unless noted otherwise:

Nails or other approved fasteners used to connect sheathing to the structure shall be driven such that their head or crown is flush with the surface of the sheathing. Do not overdrive fasteners.

Laminated Veneer Lumber (LVL), Laminated Strand Lumber (LSL), and Rim Board LVL, LSL and Rim Board shall comply with ASTM D5456. All LVL shall be a minimum of 13/4" thick have the following minimum properties, U.N.O.: Fb = 2600 psi; E = 1.9x10<sup>6</sup> psi; Fv = 285 psi; Ft = 1555 psi; Fcll = 2510 psi; Fc\_l\_ = 750 psi All LSL shall be a minimum of 11/4" thick and shall have the following minimum properties, U.N.O.:

Fb = 1700 psi; E = 1.3x10<sup>6</sup> psi; Fv = 400 psi; Ft = 1075 psi; Fcll = 1400 psi; Fc\_l\_ = 680 psi All Rim Boards shall be a minimum of  $1\frac{1}{4}$ " thick and shall have the following minimum properties, U.N.O.: Fb = 1130 psi;  $E = 0.8 \times 10^6 \text{ psi}$ ; Fv = 355 psi;  $Fc_l = 1415 \text{ psi}$ Handle, store and install all LVL, LSL, and Rim Boards per the manufacturer's guidelines.

Connect multiple members together per the manufacturer's guidelines and as shown in the details. Where discrepancies exist between the manufacturer's guidelines and the details shown in these plans, use the more stringent of the requirements.

All Nails shall conform with the tolerances specified in ASTM F1667, "Standard Specification of Driven

Fasteners: Nails, Spikes and Staples." All nails shall be common nails with the following properties: Min. Penetration into Nail Size Shank Diameter Support Member

1.25" 0.131" 1.50" 0.148" 1.63" 0.148" 1.63" 0.162"

Nails with properties less then those listed above shall not be used without prior written approval from the Engineer. Nails shall have round (full) heads. Nails with "T", brad, finish or casing heads are not permitted.

Deformed shank nails shall have either a helical (screw) or an annular (ring) shank.

ASTM F1554 Grade 36 (or A307 Grade A/C or A36) All anchor bolts connecting the sill plate to the concrete foundation shall have a PL1/4"x3"x3" washer between the sill plate and the nut and have a minimum 7" embedment into concrete. Connection Bolts: ASTM A307 Grade A/C/ or A36

All bolted connections shall have a standard cut or larger washer on both sides of the connection (between the head and the wood member and between the nut and the wood member). Bolt holes shall be a minimum of 1/32" to a maximum of 1/16" larger than the bolt diameter. Holes shall be accurately aligned in main members and side plates or side members. Bolts shall not be forcibly

All bolted connections shall have a standard cut or larger washer on both sides of the connection Connection Hardware

wire positioners or other suitable devices at intervals not exceeding 112 bar diameters, or at grout All connection hardware shown shall be supplied by Simpson Strong-Tie Incorporated or USP structural

Install all hardware per the manufacturer's guidelines. Connection hardware of equal design properties by other manufacturers may be substituted with written

approval from the Engineer. All fasteners in contact with pressure-treated or fire-treated wood shall be hot-dipped zinc-coated galvanized or stainless

All wood in contact with concrete, masonry or soil shall be pressure treated or redwood. General framing and carpentry shall be connected as per "THE MINIMUM NAILING SCHEDULE" unless noted otherwise. Provide rim board or solid blocking at all joist, rafter, and truss bearing points U.N.O. Where blocking is used, it shall be a least 2" (nominal) thick full depth of joist and shaped to match slope of blocked member.

Rim board or blocking between joists shall be nailed to the wood plate at the top of the wall with one Simpson "A35" framing anchor per each piece of blocking. Fill all holes in the framing anchors with 8d x 11/2" nails (12 nails per A35), unless shown otherwise on the drawings.

Provide approved bridging at 8'-0" on center maximum between joist or rafter end supports where both the top and bottom chord of the member are not braced with sheathing or wall board.

Built-up beams of 2x members shall be connected together as shown in the details. Where a built-up beam connection is not shown in the details, built-up beams shall be connected as follows: Members 12" or less in depth shall be spiked together with not less than 16d spikes at 12" on center, staggered. Members more than 12" shall be connected together with 1/2" diameter bolts at 24" on center, staggered. Bolts shall be placed one-quarter of the depth of the member from the top and bottom of the member.

All bearing and shear walls shall have a minimum of 2 top plates. Splices in top plates shall be made as shown in the topplate splice schedule. Where a top-plate splice is not shown in the details, top plates splices shall be staggered a minimum of 4'-0"

from the nearest splice in adjoining top plate and spiked together with a minimum of (20) 16d nails between splices unless noted otherwise Provide a double joist under parallel partitions.

Do not cut or notch any wood stud greater than 25% of its width. Do not bore a hole in any wood stud greater in diameter than 40% of its width. Bored holes shall be centered in the stud whenever possible. In no case shall the edge of any bored hole be nearer than 1" to the edge of the stud. Bored holes shall not be located at the same section of Bored holes up to 60% of the stud width are allowed provided that an additional stud is placed adjacent to the stud

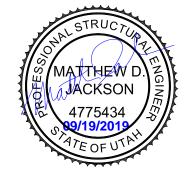
to be bored, that the bored hole is centered in the stud, and no more than two successive sets of studs are so

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**AUTHORITY HAVING JURISDICTION** 

PROJECT DESCRIPTION SOUTHRIDGE PARK NEW RESTROOMS VOL.2

5051 SOUTH 4015 WEST TAYLORSVILLE, UTAH

SHEET NAME: GENERAL STRUCTURAL

REVISIONS

NOTES

**DESCRIPTION** 

**ISSUE DATE:** 09/19/2019 PERMIT SET ISSUE TYPE:

PROJECT#: 19174 STRUCTURAL ENGINEERS SHEET NUMBER:

5673 S Redwood Rd. Salt Lake City, UT 84123 Office: 801-905-1097 mjstructuralengineers.com

DRAWN BY:

CHECKED BY:

# **QUALITY ASSURANCE PLAN / SPECIAL INSPECTION REQUIREMENTS**

1. Special inspections conforming to IBC Chapter 17 are required for construction. The owner, or owner's agent, shall employ one or more approved agencies to perform inspections during construction of the types listed in IBC Section 1705 in addition to those inspections indicated in IBC Section 110.

- 2. The special inspector shall provide written documentation to the building official demonstrating his or her competence, experience and training. He/She shall keep records of the inspections and provide the inspection reports to the building official and engineer of record. Reports shall indicate if the inspected work was or was not completed according to the approved construction documents. All discrepancies shall be brought to the immediate attention of the contractor for correction. If discrepancies are not corrected, they shall be brought to the attention of the building official and engineer of record prior to completion of that phase of work. A final report detailing inspections and any corrections required shall be submitted to the building official at a predetermined time.
- Each contractor and sub-contractor at the building site shall provide full access for the special inspector to perform the required special inspections. In addition, each contractor and sub-contractor responsible for the construction of the main wind force or seismic force resisting system, or component, indicated in the statement of special inspection shall submit a written statement of responsibility to the building official and owner. This statement of responsibility shall acknowledge awareness of the special
- inspection requirements contained in the statement of special inspection.
  4. RecVerify materials below foundations are adequate to achieve the design bearing capacity per the project
- geotechnical report Periodic special inspection required.
   Verify excavations are extended to the proper depth and have reached proper materials per the project
- geotechnical report Periodic special inspection required.
   Perform classification and testing of compacted fill materials Periodic special inspection required.
- Verify use of proper materials, densities and lift thickness during placement and compaction of compacted fill material Continuous special inpsection required.
- Prior to placement of compacted fill material, inspect the subgrade and verify that the site has been prepared properly - Periodic special inspection required.

in the seismic force resisting system

- Required Verification and Inspection for Concrete Construction

  Inspection for Concrete Construction

  Inspection for Concrete Construction

  Inspection of reinforcing steel,
  including prestressing tendons and placement

  Inspection of reinforcing steel welding
  in accordance with IBC Table 1705.2.2, Item 2b
  in hardened concrete elements (1)

  Inspection of cast-in-place anchors
  1908.5, 1909.1
- Inspection of anchors post-installed Cont -- ACI 318 Sec. 3.8.6, 8.1.3, 21.1.8, IBC 1910.2-3

  Verifying use of required design mix -- Per ACI 318 Sec. 3.8.6, 8.1.3, 21.1.8, IBC 1910.2-3

  At the time fresh concrete is sampled to Cont Per ACI 318 Sec. 4, 5,2-5,4, IBC 1904.2, 1910.2-3
- At the time fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete

  Inspection of the concrete and shotcrete

  Cont Per ACI 318 Sec. 4, 5.2-5.4, IBC 1904.2, 1910.2-3

  ACI 318 Sec. 4, 5.2-5.4, IBC 1904.2, 1910.2-3

  ACI 318 Sec. 5.9-5.10, IBC 1910.6-1910.8
- Inspection of the concrete and shotcrete Cont -- ACI 318 Sec. 5.9-5.10, IBC 1910.6-1 placement for proper application techniques
  Inspection for maintenance of specified -- Per ACI 318 Sec. 5.9-5.10, IBC 1910.6-1 Per ACI 318 Sec. 5.11-5.13, IBC 1910.9 curing temperature and techniques
- Inspection of prestressed concrete
   Application of prestressing forces
   Grouting of bonded prestressing tendons
   Cont Per ACI 318 Sec. 18.18.4, 18.20
- Erection of precast concrete elements -- Per ACI 318 Ch. 16
  Verification of in-situ concrete strength prior -- Per ACI 318 Sec. 6.2
  to stressing of tendons in post-tensioned concrete,
- and prior to removal of shores and forms from beams and structural slabs

  Inspection of formwork for shape, location -- Per ACI 318 Sec. 6.1.1

  and dimensions of the concrete element being formed
  - (1) Specification requirements for special inspection shall be included in the research report for the anchor issued by an approved source in accordance with ACI 355.2 or other qualification procedures.
- Required Verification and Inspection for Masonry Construction
   Masonry construction shall be inspected and verified in accordance with TMS 402 / ACI 530 / ASCE 5 and TMS
- Construction of mortar joints -- Per TMS 602 Sec. 3.3B
   Location of reinforcing and connectors -- Per TMS 602 Sec. 3.4, 3.6A
   Prior to grouting, verify that the following are in compliance:
   Grout space -- Per TMS 602 Sec. 3.2D, 3.2F
   Grade, type, and size of reinforcing 3.4
- and anchor bolts
   Placement of reinforcing and connectors
   Per TMS 402 Sec. 6.1, 6.2.1, 6.2.6, 6.2.7 TMS 602 Sec. 3.2E, 3.4, 3.6A
   Proportions of site-prepared grout
   Construction of mortar joints
   Per TMS 602 Sec. 2.6B, 2.4G.1.b
   TMS 602 Sec. 3.3B
- Verify during construction:
   Size and location of structural elements
   Type, size and location of anchors, including other details of anchorage of masonry to

  Per TMS 602 Sec. 3.3F
  TMS 402 Sec. 1.2.1(e), 6.1.4.3, 6.2.1
- structural members, frames, or other construction

   Welding of reinforcement -- Per TMS 402 Sec. 8.1.6.7.2, 9.3.3.4(c), 11.3.3.4(b)
- Preparation, construction, and protection -- Per TMS 602 Sec. 1.8C, 1.8D of masonry during cold weather

  (temperature below 40°F) or hot weather (temperature above 90°F)
- (temperature below 40°F) or hot weather (temperature above 90°F)
- Placement of grout Cont -- TMS 604 Sec. 3.5. 3.6C
  Observe preparation of grout -- Per TMS 602 Sec. 1.4B.2.a.3,
  specimens, mortar specimens, and prisms 1.4B.2.c.3, 1.4B.3, 1.4B.4
- Required Verification and Inspection for Wood Construction
   The special inspector shall verify the fabricator of prefabricated wood structural elements maintains detailed fabrication and quality control procedures that provide a basis for the inspection control of workmanship and the fabricators ability to conform to the construction documents and referenced
- standards. The inspector shall review the procedures for completeness and accuracy. Special inspections shall not be required where the fabricator is approved in accordance with IBC Section 1704.2.5.2.
  Inspection of high load diaphragms shall verify panel sheathing material, thickness, nail size, number of fastener lines, the spacing between fasteners and the nominal size of framing members and adjoining
- panel edges.
   For metal plate connected wood trusses spanning 60 feet or greater, the inspector shall verify the temporary installation of restraint/bracing and the permanent restraint/bracing are installed in accordance with the approved truss submittal package.
- Continuous special inspection is required for field gluing of elements of the main wind-force resisting system. Periodic special inspection is required for nailing, bolting, anchoring and other fastening of components within the main wind-force resisting system, including wood shear walls, wood diaphragms, drag struts, braces and hold-downs. Periodic special inspection is also required for roof and wall cladding.

# **LEGEND OF MARKS AND ABREVIATIONS**

ALT ARCH	Alternate Architect	JST JST's	Joist Joists
BLDG BLK BN	Building Blocking Boundary Nail	k klf ksf	Kip(s) = 1000 Pounds Kips Per Linear Ft Kips Per Square Ft
BOTT	Bottom	1.0	Decede (II)
BRG BTWN	Bearing Between	LB LSL	Pounds (#) Laminated Strand Lumber
BYND	Beyond	LVL	Laminated Veneer Lumber
CANT	Cantilever	MAS	Masonry
CGS	Center of Gravity of Strand	(MAX)	Maximum
CJ	Control Joint	MECH	Mechanical
CJP	Complete Joint Penetration	MEZZ	Mezzanine
CL	Center Line	MFR	Manufacturer
CLR	Clear	(MIN)	Minimum
CMU	Concrete Masonry Unit	MISC	Miscellaneous
COL	Column	MTL	Metal
CONC	Concrete		
CONT	Continuous	(N)	New
CS	Coil Strap	()	
		ос	On Center
DB	Deck Bearing	OPNG	Opening
DBA	Deformed Bar Anchor	OPP	Opposite
DBL	Double	OSB	Orientated Strand Board
DIM	Dimension		
DWG	Drawing	PCF	Pounds Per Cubic Ft
	, and the second	PERP	Perpindicular
(E)	Existing	PL	Plate
ÈΑ	Each	plf	Pounds Per Linear Ft
ELEC	Electrical	PRE-FAB	Pre-Fabricated
EMBED	Embedment	psf	Pounds Per Square Ft
EN	Edge Nail	psi	Pounds Per Square Inch
EQ	Equal	PT	Post Tension
EQUIP	Equipment	PT/DF	Pressure Treated Douglas Fir
EXT	Exterior		
		RD	Roof Drain
FD	Floor Drain	REINF	Reinforce/Reinfircement/Reinforcir
FND	Foundation	REQD	Required/Requirements/Requiring
FLR	Floor	RTU	Roof Top Unit
FTG	Footing		
FRT	Fire Retardent Treatment	SCHED	Schedule
		SCW	Seismic Critical Weld
GA	Gauge	SIM	Similar
GALV	Galvanized	STD	Standard
GLB	Glued Laminated Beam	STIFF	Stiffener
GSN	General Structural Notes	STL	Steel
		STRUCT	Structural
HD	Hold-Down		
HDR	Header	T&G	Tongue and Groove
HORIZ	Horizontal	TEMP	Tempature
HSA	Headed Stud Anchor	TYP	Typical
HSS	Hollow Structural Section		
		U.N.O.	Unless Noted Otherwise
ICBO	International Conference of Building Officals		
IBC INT	International Building Code Interior	VERT	Vertical
		w/	With
		1404/5	

# **POST INSTALLED ANCHORS**

- 1. Follow all ICC Evaluation Report and manufacturers' requirements and recommendations for post-installed anchor
- installation. Where conflicts may exist, the most stringent requirement applies.
  All holes in hollow, brick, or stone masonry shall be performed in the "rotary-only" mode with the hammer function off.
  Follow manufacturer and ICC evaluation report requirements for installation temperature of adhesive anchors. Adhesive anchors shall not be installed or cured outside of approved temperature ranges.

Welded Wire Reinforcement

Working Point

- Adhesive anchors in concrete shall be
   HIT RE-500 SD by Hilti (ESR-2322) normal weight concrete only
- H11 RE-500 SD by Hilti (ESR-2322) nor
   SET-XP by Simpson (ESR-2508)
- PURE 110+ by Dewalt (ESR-3298)AC 200+ (cold weather) by Dewalt (ESR-4027)

"Acrylic" (cold weather) adhesive is required.

- Adhesive anchors in grouted masonry shall be
- HIT HY-150 MAX by Hilti (ESR-1967)SET by Simpson (ESR-1772)
- Concrete Screw Anchors
- Concrete screw anchors shall be
   Titen-HD Concrete Screw Anchor by Simpson Strong-Tie (ESR 2713 Cracked & UnCracked Concrete) Normal
- Kwik HUS-EZ Screw Anchor by Hilti (ESR 3027 Cracked & Uncracked Concrete) Normal weight concrete only
- Screwbolt+ Screw Anchor by Dewalt (ESR-3889)
   The Contractor may submit, for review and approval, the manufacturer's ICC evaluation report of alternate anchor systems.
   The alternate method shall provide minimum capacities equal to or greater than those in the above noted anchors. The
- alternate method
  6. Special Inspection and Testing
- Adhesive Anchors in Solid Brick Masonry: Tension test 5% of all anchors to 3000 lbs. Hold load for five
- minutes. Torque test 25% of all anchors with a calibrated wrench to 60 foot-pounds.
  Mechanical anchors shall be tension tested to twice the allowable tension load listed in the ICC
   Installation of adhesive anchors that are to be under sustained tension loading horizontal to vertically
- overhead installation shall be done by acertified adhesive anchor installer (AAI) as certified through ACI and in accordance with ACI 318-14 (section 17.8.2.2). Proof of current certification shall be submitted to the engineer for approval prior to commencement of installation.

  Per ACI 318-14 (section 17.1.2) adhesive anchors shall be installed in concrete having a minimum age.
- Per ACI 318-14 (section 17.1.2) adhesive anchors shall be installed in concrete having a minimum age of 21 days at time of anchor installation. For installations sooner than 21 days, consult adhesive manufacturer.

If temperature of base material at time of adhesive installation is at 45 degrees (fahrenheit) or less, an

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SOUTHRIDGE PARK NEW RESTROOMS VOL.2

5051 SOUTH 4015 WEST TAYLORSVILLE, UTAH

SHEET NAME:

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NOTES

REVISIONS

MARK DATE DESCRIPTION

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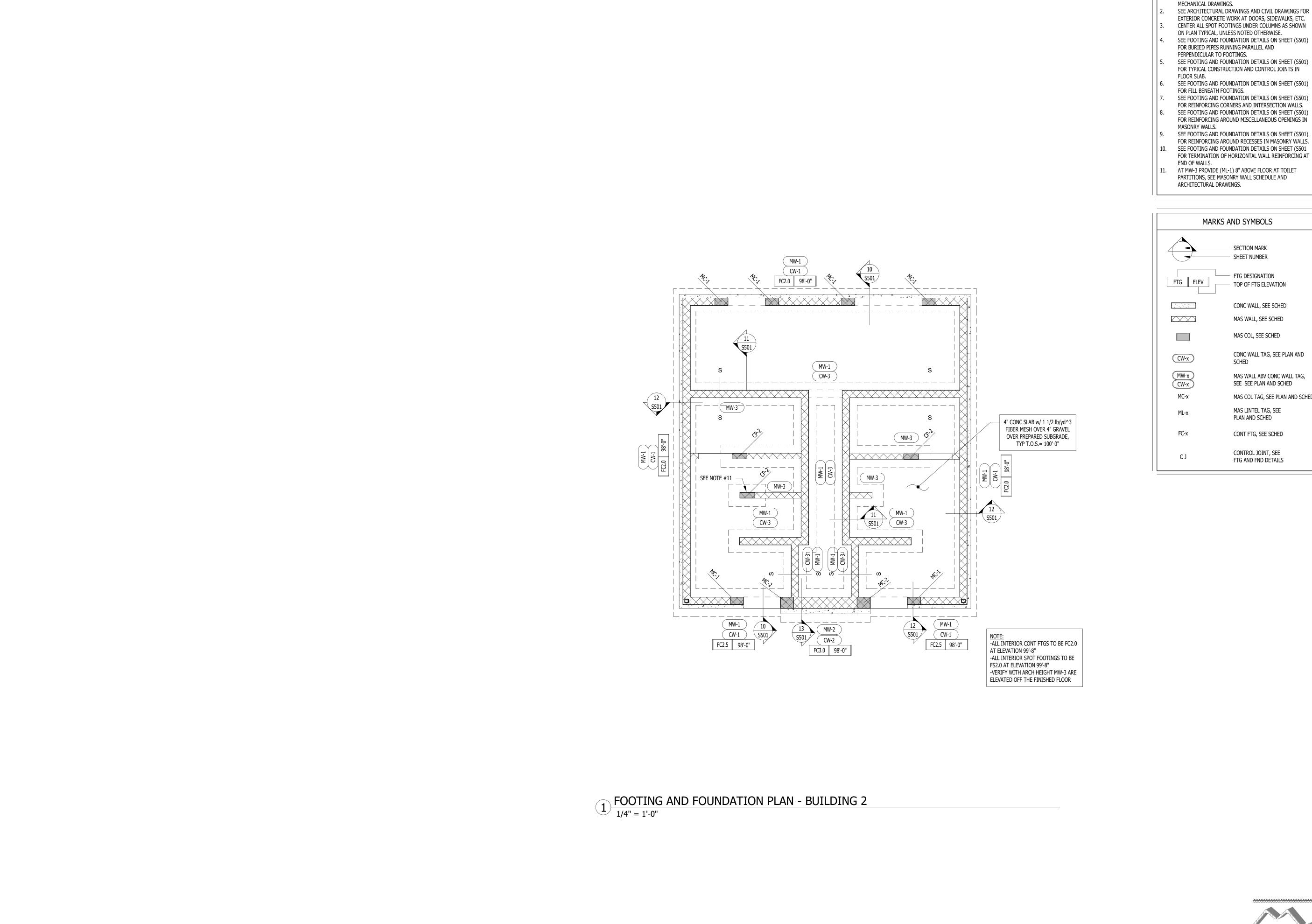
SHEET NUMBER:

\$102

STRUCTURAL ENGINEERS

STRUCTURAL ENGINEERS

5673 S Redwood Rd.
Salt Lake City, UT 84123
Office: 801-905-1097
mjstructuralengineers.com



FOOTING AND FOUNDATION PLAN NOTES

COORDINATE LOCATION OF DEPRESSED SLABS, SLOPED ajc architects SLABS, AND FLOOR DRAINS WITH ARCHITECTURAL AND SEE ARCHITECTURAL DRAWINGS AND CIVIL DRAWINGS FOR EXTERIOR CONCRETE WORK AT DOORS, SIDEWALKS, ETC. 703 east 1700 south

CENTER ALL SPOT FOOTINGS UNDER COLUMNS AS SHOWN salt lake city, ut 84105 ON PLAN TYPICAL, UNLESS NOTED OTHERWISE. SEE FOOTING AND FOUNDATION DETAILS ON SHEET (S501) FOR BURIED PIPES RUNNING PARALLEL AND

SEE FOOTING AND FOUNDATION DETAILS ON SHEET (S501) FOR TYPICAL CONSTRUCTION AND CONTROL JOINTS IN

SEE FOOTING AND FOUNDATION DETAILS ON SHEET (S501) SEE FOOTING AND FOUNDATION DETAILS ON SHEET (S501)

FOR REINFORCING CORNERS AND INTERSECTION WALLS. SEE FOOTING AND FOUNDATION DETAILS ON SHEET (S501) FOR REINFORCING AROUND MISCELLANEOUS OPENINGS IN

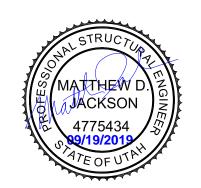
FOR REINFORCING AROUND RECESSES IN MASONRY WALLS. SEE FOOTING AND FOUNDATION DETAILS ON SHEET (S501 FOR TERMINATION OF HORIZONTAL WALL REINFORCING AT

AT MW-3 PROVIDE (ML-1) 8" ABOVE FLOOR AT TOILET PARTITIONS, SEE MASONRY WALL SCHEDULE AND

MARKS AND SYMBOLS SECTION MARK SHEET NUMBER FTG DESIGNATION TOP OF FTG ELEVATION CONC WALL, SEE SCHED MAS WALL, SEE SCHED MAS COL, SEE SCHED CONC WALL TAG, SEE PLAN AND MAS WALL ABV CONC WALL TAG, SEE SEE PLAN AND SCHED MAS COL TAG, SEE PLAN AND SCHED MAS LINTEL TAG, SEE PLAN AND SCHED CONT FTG, SEE SCHED CONTROL JOINT, SEE FTG AND FND DETAILS

ARCHITECT / CONSULTANT

ajcarchitects.com



AUTHORITY HAVING JURISDICTION

PROJECT DESCRIPTION SOUTHRIDGE PARK NEW RESTROOMS VOL.2

5051 SOUTH 4015 WEST TAYLORSVILLE, UTAH

SHEET NAME:

FOOTING AND FOUNDATION PLAN -BUILDING 2

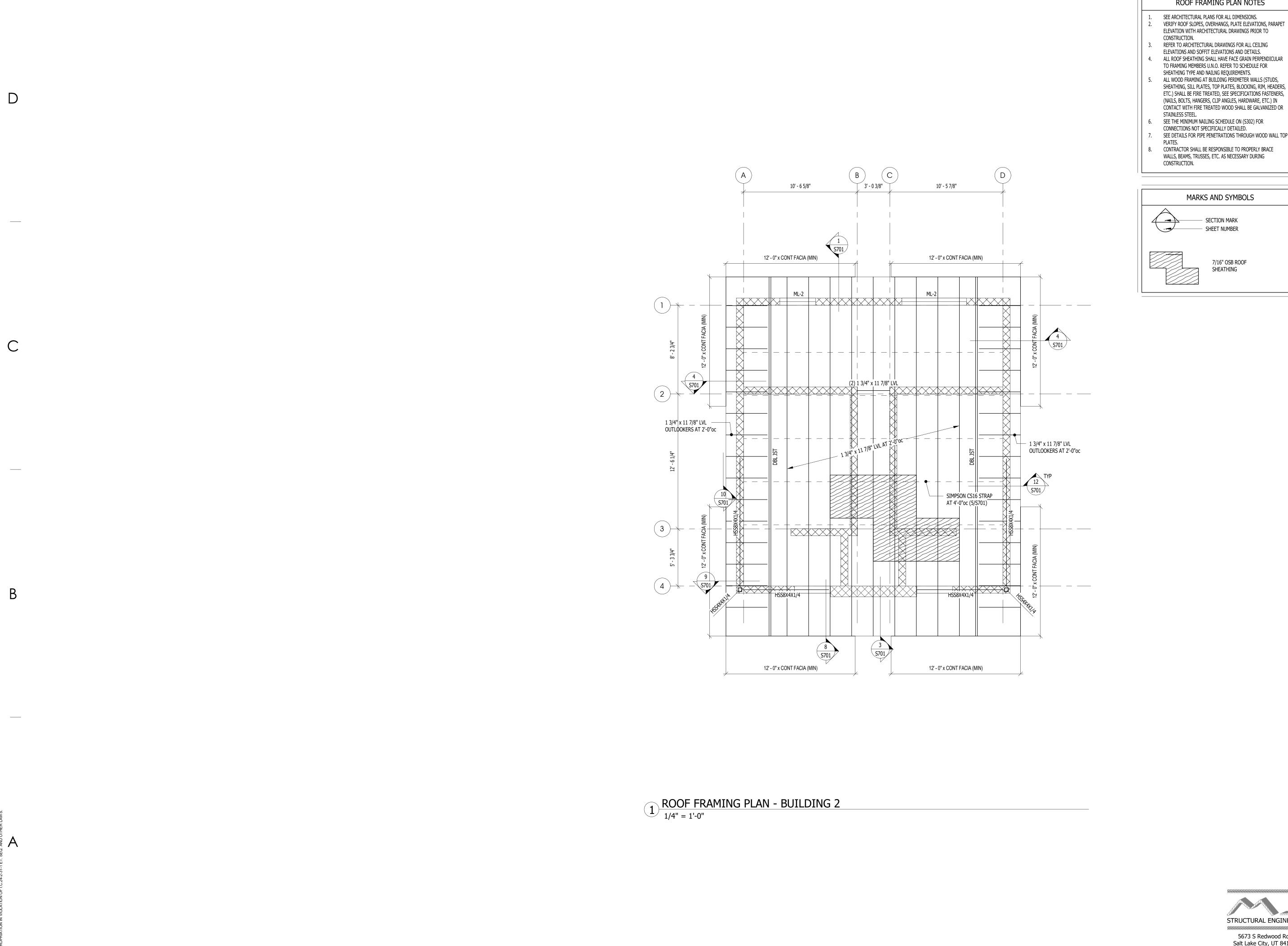
REVISIONS

DESCRIPTION

09/19/2019 PERMIT SET SDB / BH DRAWN BY:

CHECKED BY: MJ PROJECT#: 19174 STRUCTURAL ENGINEERS

5673 S Redwood Rd. Salt Lake City, UT 84123 Office: 801-905-1097 mjstructuralengineers.com SHEET NUMBER:



ROOF FRAMING PLAN NOTES ajc architects VERIFY ROOF SLOPES, OVERHANGS, PLATE ELEVATIONS, PARAPET ELEVATION WITH ARCHITECTURAL DRAWINGS PRIOR TO REFER TO ARCHITECTURAL DRAWINGS FOR ALL CEILING 703 east 1700 south ELEVATIONS AND SOFFIT ELEVATIONS AND DETAILS. salt lake city, ut 84105 ALL ROOF SHEATHING SHALL HAVE FACE GRAIN PERPENDICULAR ajcarchitects.com

MARKS AND SYMBOLS

 SECTION MARK SHEET NUMBER

> 7/16" OSB ROOF SHEATHING



ARCHITECT / CONSULTANT

AUTHORITY HAVING JURISDICTION

PROJECT DESCRIPTION SOUTHRIDGE PARK NEW RESTROOMS VOL.2

5051 SOUTH 4015 WEST TAYLORSVILLE, UTAH

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ROOF FRAMING PLAN -BUILDING 2

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PERMIT SET DRAWN BY: SDB / BH CHECKED BY: MJ PROJECT#: 19174

SHEET NUMBER:

6. RUN CONTINUOUS BARS IN 'FC' FOOTING	
3" CLR	3" CLR
TYP FTG REINF ———	3" CLR

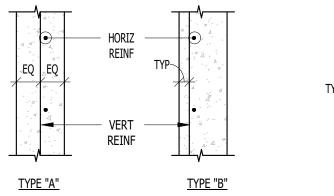
TYPICAL FOOTING SECTION

	CONCRETE WALL SCHEDULE									
MARK	THICKNESS		WALL TYPE	REMARKS						
MAKK	ILITCVINESS	VERTICAL	HORIZONTAL	TOP AND BOTTOM	WALL TIPL	KLIMAKIS				
CW-1	8"	#4 AT 12"oc EF	#5 AT 16"oc EF	(2) #5	C OR D					
CW-2	12"	#4 AT 12"oc EF	#5 AT 16"oc EF	(2) #5	C OR D					
CW-3	8"	#4 AT 12"oc	-	(1) #5	Α					

## NOTES:

1. SEE GENERAL STRUCTURAL NOTES FOR REQUIREMENTS NOT NOTED IN SCHEDULE.

# WALL REINFORCEMENT PLACEMENT TYPES:



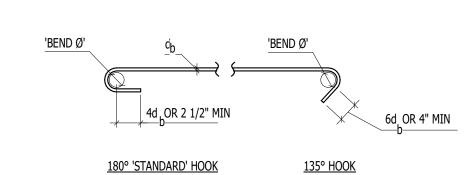
TYP-	HORIZ REINF
	- VERT REINF
TYPE "C"	TYPE "D"

	CONCRETE REINFORCING BAR LAP SPLICE SCHEDULE																
		TENSION BARS															COMPRESSION BARS
		f'c = 3	000psi			f'c = 4	000psi			f'c = 5	000psi		f'c = 6000psi				ALL f'c
MARK	REGI	JLAR	TO	)P	REGI	JLAR	TO	OP	REG	ULAR	TO	OP	REGI	JLAR	TO	OP	
	CLA	ASS	CLA	ASS	CLA	ASS	CLA	ASS	CL	ASS	CL	ASS	CLA	ASS	CLA	ASS	
	Α	В	Α	В	Α	В	Α	В	Α	В	Α	В	Α	В	Α	В	
#3	17"	22"	22"	28"	15"	19"	19"	24"	13"	17"	17"	22"	12"	16"	16"	20"	12"
#4	22"	29"	29"	38"	19"	25"	25"	33"	17"	22"	22"	29"	16"	21"	21"	27"	15"
#5	28"	36"	36"	47"	24"	31"	31"	41"	22"	28"	28"	36"	20"	26"	26"	33"	19"
#6	33"	43"	43"	56"	29"	37"	37"	49"	26"	34"	34"	43"	24"	31"	31"	40"	23"
#7	49"	63"	63"	81"	42"	54"	54"	70"	37"	48"	48"	63"	35"	45"	45"	58"	27"
#8	55"	72"	72"	93"	47"	62"	62"	80"	42"	55"	55"	71"	39"	51"	51"	66"	30"
#9	62"	81"	81"	105"	53"	69"	69"	90"	48"	62"	62"	81"	44"	58"	58"	75"	34"
#10	70"	91"	91"	118"	60"	78"	78"	101"	54"	70"	70"	91"	50"	65"	65"	84"	39"
#11	78"	101"	101"	131"	67"	87"	87"	112"	60"	77"	77"	101"	55"	72"	72"	93"	43"

90° 'STANDARD' HOOK

- 1. THESE NOTES SHALL BE USED FOR ALL SPLICES UNLESS NOTED OTHERWISE. 2. TOP BARS ARE CLASSIFIED AS HORIZONTAL BARS WHERE 12", OR MORE, OR FRESH CONCRETE CAST BELOW THE REINFORCING BAR.
- 3. CLASS 'B' SPLICES SHALL BE USED FOR ALL SPLICES UNLESS NOTED OTHERWISE. 4. TIES AND STIRRUPS SHALL NOT BE SPLICED.
- 5. FOR ALL LIGHTWEIGHT CONCRETE, LAP LENGTHS SHALL BE MULTIPLIED BY 1.3.

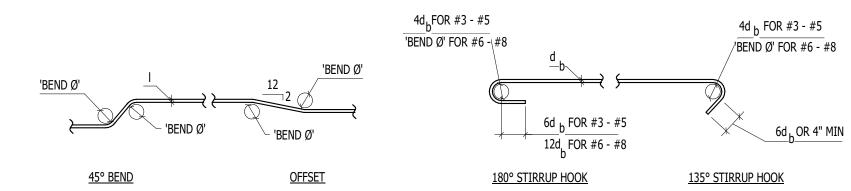
6. FOR ALL EPOXY COATED BARS, LAP LENGTHS SHALL BE MULTIPLIED BY 1.3 FOR TOP BARS AND FOR REGULAR BARS.



'BEND Ø' =  $6d_h$ FOR #3 - #8

'BEND Ø' = 8d<sub>b</sub>FOR #9 - #11

'BEND Ø' = 10d FOR #14 - #18



# CONCRETE FOOTING SCHEDULE NO SCALE

MASONRY WALL SCHEDULE									
ΜΛΡΚ	MARK THICKNESS MATERIA	ITCVNECC MATERIAL	SOLID	REINF	ORCING	WALL TYPE	JOINT	SPECIAL INSPECTION REQUIRED	
PIAKK		MATEMAL	GROUT	VERTICAL	HORIZONTAL	WALL TIPL	JOINT		
MW-1	8"	CMU	YES	(1) #5 AT 24"oc	(1) #5 AT 24"oc	A	NONE		
MW-2	12"	CMU	YES	(1) #5 AT 16"oc	(2) #5 AT 24"oc	В	NONE		
MW-3	6"	CMU	YES	(1) #5 AT 24"oc	(1) #5 AT 24"oc	А	NONE		

VERT WALL REINF

- COORDINATE WITH ARCHITECTURAL DRAWINGS: FINISHES, COURSING, MATERIAL,
- DO NOT GROUT WALLS UNLESS NOTED OTHERWISE. ALL MASONRY BELOW GRADE SHALL BE SOLID GROUTED.
- VERTICAL REINFORCING SHALL BE CENTERED IN THE WALL UNLESS NOTED
- (1) VERTICAL BAR MINIMUM AT ALL CORNERS AND END OF WALLS. HORIZONTAL WALL REINFORCING SHALL BE PLACED BETWEEN VERTICAL MASONRY
- COLUMN REINFORCING BARS. HORIZONTAL WALL REINFORCING SHALL CONTINUE THROUGH MASONRY LINTELS,
- WHERE THE HORIZONTAL WALL REINFORCING AND LINTEL REINFORCING OCCUR IN THE SAME COURSE, USE THE LARGER REINFORCING.
- 8. AT MW-3 WHERE PARTITION WALLS ARE ELEVATED OFF FLOOR PROVIDE ML-1. 9. AT MW-3 PROVIDE ML-1 AT TOP OF WALL AND DOME GROUT CAP.

10. SEE GENERAL STRUCTURAL NOTES FOR ALL OTHER REQUIREMENTS.

4 MASONRY WALL SCHEDULE
NO SCALE

TYPE 'A' HORIZ WALL REINF SCHEMATIC MAS WALL DIAGRAM	
VERT WALL REINF	
TYPE 'B'  OUBLE MAT REINF  HORIZ WALL REINF  SCHEMATIC MAS WALL DIAGRAM	~ ~ 2 1/2" MIN-

MASONRY COLUMN SCHEDULE								
MADIZ	DIED CIZE	REINF	ORCING	COMMENTS				
MARK	PIER SIZE	VERTICAL	TIES	COMMENTS				
MC-1	8" x 16"	(2) #5	-					
MC-2	12" x 16"	(4) #5	#3 AT 8"oc					

# NOTES:

CONCRETE WALL SCHEDULE

- 1. THE CENTERLINE OF VERTICAL BARS SHALL BE LOCATED 2 1/2" FROM THE FACE OF THE MASONRY. HORIZONTAL
- WALL REINFORCEMENT SHALL BE LOCATED TO THE INSIDE OF THE VERTICAL BARS. 2. VERTICAL REINFORCING AND TIES SHALL EXTEND TO FULL WALL HEIGHT, UNLESS NOTED OTHERWISE.
- 3. VERTICAL MASONRY COLUMN REINFORCING SHALL EXTEND INTO THE FOOTING AND TERMINATE WITH A STANDARD 90° HOOK. FOR CONCRETE FOUNDATION WALLS OVER 5'-0" TALL, VERTICAL COLUMN REINFORCING SHALL DOWEL 4'-0" MINIMUM INTO THE FOUNDATION WALL.
- 4. IN CONCRETE FOUNDATION WALLS, VERTICAL MASONRY COLUMN REINFORCING SHALL BE TIED WITH #3 AT THE SAME SPACING AND CONFIGURATION AS MASONRY COLUMNS ABOVE.
- 5. SEE GENERAL STRUCTURAL NOTES FOR ALL OTHER REQUIREMENTS.
- 6. SPACE TIES AT 48"oc FROM A POINT 24" ABOVE OPENINGS TO TOP OF THE WALL.

ILS AT 40 OCTROMA FOINT 24 ABOVE OPENINGS TO TOP OF THE WALL.
VERT WALL REINF
HORIZ WALL REINF
SCHEMATIC COLUMN CONFIGURATION FOR MASONRY COLUMNS
VERT WALL REINF ———
**************************************

TYPICAL SCHEMATIC COLUMN CONFIGURATION FOR MASONRY COLUMNS

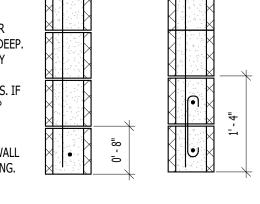
	MASONRY COLUMN SCHEDULE
_ ()	NO SCALE

HORIZ WALL REINF

# 3 CONCRETE REINFORCING LAP SPLICE AND BAR BENDING DIAGRAM SCHEDULE NO SCALE

MASONRY LINTEL SCHEDULE										
MARK	DEDTU	LINTEL SPAN	REINFORCING		COMMENTS					
MAKK	DEPTH	(MAX)	HORIZONTAL	STIRUPPS	COMMENTS					
ML-1	8"		(1) #7 BAR	NONE	TYPICAL U.N.O.					
ML-2	16"		(1) #7 BAR CONT TOP AND BOTT	#4 AT 8"oc						
		1								

- 1. LINTEL WIDTH AND MATERIAL TYPE SHALL BE THE SAME AS THE WALL IN WHICH THE LINTEL IS CONSTRUCTED. 2. GROUT MASONRY INTEL S MONOLITHICALLY WITH THE SUPPORT WALL OR COLUMN AT EACH END. 3. MASONRY LINTELS 'ML-1' THRU 'ML-4' SHALL BE USED OVER OPENINGS IN MASONRY WALLS WHEN A SPECIFIC MASONRY LINTEL IS NOT OTHERWISE SPECIFIED. WHEN A LINTEL IS SPECIFIED ON PLANS, THE MAXIMUM SPAN AS NOTED IN THIS SCHEDULE SHALL NOT APPLY. CONSULT THE STRUCTURAL ENGINEER FOR LINTELS NOT
- SPECIFIED ON PLANS WHICH HAVE A SPAN GREATER THAN 10'-0". 4. MASONRY LINTELS 'ML-1' THRU 'ML-4' SHALL NOT BE LOCATED DIRECTLY BELOW FLOOR OR ROOF BEAMS OR GIRDERS, UNLESS NOTED OTHERWISE ON PLANS. JOISTS SHALL NOT BEAR ON ANY LINTEL LESS THAN 16" DEEP.
- CONSULT THE STRUCTURAL ENGINEER FOR LINTELS NOT SHOWN ON PLANS WHICH ARE LOCATED DIRECTLY BELOW FLOOR OR ROOF BEAMS OR GIRDERS. 5. EXTEND ALL HORIZONTAL REINFORCING 48 BAR DIAMETERS MINIMUM BEYOND THE EDGE OF ALL OPENINGS. IF HORIZONTAL REINFORCING CANNOT EXTEND 48 BAR DIAMETERS BEYOND EDGE OF OPENING, PROVIDE 90°
- 6. SPLICE TOP BARS AT MID-SPAN OF LINTEL ONLY AND BOTTOM BARS OVER OVER SUPPORTS ONLY.
- 7. HORIZONTAL WALL REINFORCING SHALL CONTINUE THRU MASONRY LINTELS. WHERE BOTH HORIZONTAL WALL WALL REINFORCING AND LINTEL REINFORCING OCCUR IN THE SAME COURSE, USE THE LARGER REINFORCING.
- 8. DOWEL VERTICAL REINFORCING OF WALL ABOVE LINTEL INTO THE FULL DEPTH OF LINTEL OR 48 BAR
- DIAMETERS, WHICHEVER IS LESS. 9. SEE GENERAL STRUCTURAL NOTES FOR ALL OTHER REQUIREMENTS.



MASONRY LINTEL SCHEDULE



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**AUTHORITY HAVING JURISDICTION** 

PROJECT DESCRIPTION SOUTHRIDGE PARK NEW RESTROOMS VOL.2

5051 SOUTH 4015 WEST TAYLORSVILLE, UTAH

SHEET NAME: **SCHEDULES** 

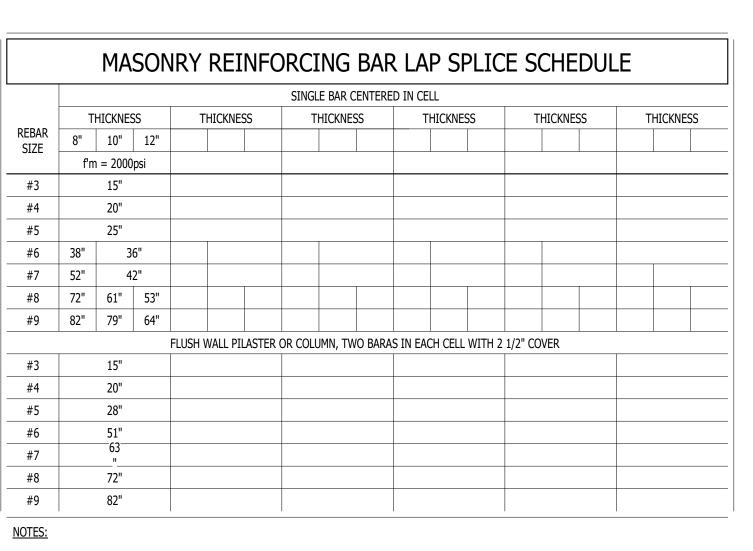
REVISIONS

DESCRIPTION

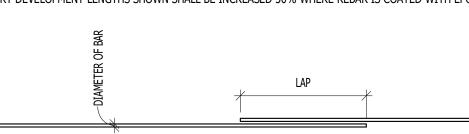
ISSUE DATE: 09/19/2019 ISSUE TYPE: PERMIT SET DRAWN BY: SDB / BH CHECKED BY: MJ

SHEET NUMBER:

PROJECT#: 19174

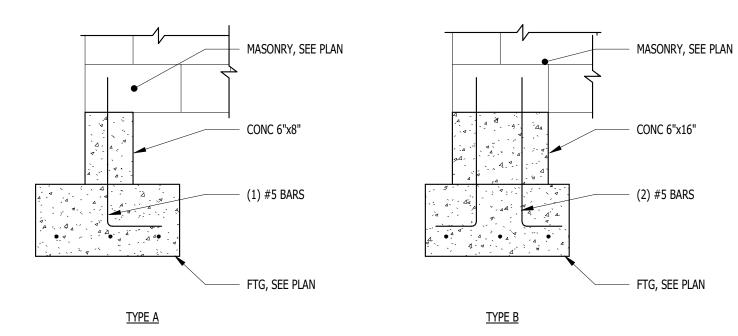


- MECHANICAL SPLICES ARE REQUIRED FOR BARS IN MASONRY GREATER THAN #9 BARS.
- MECHANICAL SPLICES MAY BE USED IN LIEU OF LAP SPLICES SHOWN.
- MECHANICAL SPLICES SHALL DEVELOP 125% OF SPECIFIED YIELD STRENGTH OF BAR. MASONRY DEVELOPMENT LENGTHS SHOWN SHALL BE INCREASED 50% WHERE REBAR IS COATED WITH EPOXY.



MASONRY REINFORCING BAR LAP SPLICE SCHEDULE
NO SCALE

CONCRETE PIER SCHEDULE										
MARK	DIED CIZE	REINFO	RCING	TYPE	DEMARKS					
MAKK	PIER SIZE VI	VERTICAL	TIES	TIPE	REMARKS					
CP-1	6" x 8"	(1) #5	-	A						
CP-2	6" x 16"	(2) #5	-	В						



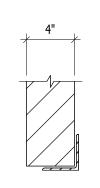
5 CONCRETE PIER SCHEDULE

NO SCALE

# STEEL ANGLE LINTEL SCHEDULE (NON-STRUCTURAL)

	,
CLEAR OPENING	SIZE OF ANGLE
UP TO 5'-0"	3 1/2" x 3" x 1/4"
5'-1" TO 7'-0"	3 1/2" x 3 1/2" x 1/4"
7'-1" TO 9'-0"	5" x 3 1/2" x 1/4"
9'-1" TO 10'-0"	5" x 3 1/2" x 5/16"
10'-1" TO 11'-0"	5" x 3 1/2" x 3/8"
11'-1" TO 12'-0"	6" x 4" x 3/8"
12'-1" AND OVER	REQUIRES SPECIAL ANALYSIS

- 1. STEEL LINTELS CARRY VENEER ONLY. WHERE FLOOR, ROOFS OR CONCENTRATED LOADS OCCUR, FURTHER ANALYSIS IS NECESSARY. PROVIDE 1" OF BEARING EACH END FOR EACH FOOT OF SPAN. MINIMUM BEARING OF 6" EA SIDE OF OPENING. USE THIS SCHEDULE UNLESS NOTED OTHERWISE.
- 2. LINTELS ARE TO BE GALVANIZED.





CONNECTION	NAILING
SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL	16d at 1'-4"oc
BRIDGING TO JOIST, TOENAIL EACH END	(2) 8d
BLOCKING BETWEEN JOIST OR RAFTERS TO TOP PLATE, TOE NAIL	
RIM JOIST TO TOP PLATE, TOE NAIL	8d AT 0'-6"oc
COLLAR TIE TO RAFTER, FACE NAIL	(3) 10d
JACK RAFTER TO HIP, TOE NAIL	(3) 10d
FACE NAIL	(2) 16d
ROOF RAFTER TO 2x RIDGE BEAM, TOE NAIL	(2) 16d
FACE NAIL	(2) 16d
JOIST TO BAND JOIST, FACE NAIL	(3) 16d
LEDGER STRIP, FACE NAIL	(3) 16d
TOP PLATE TO STUD, END NAIL	(2) 16d
STUD TO SOLE PLATE, END NAIL	(2) 16d
DOUBLE STUDS, FACE NAIL	16d AT 2'-0"oc
DOUBLED TOP PLATES, FACE NAIL	16d AT 1'-4"oc
TOP PLATES, LAPS AND INTERSECTION, FACE NAIL	(2) 16d
CONTINUOUS HEADER, TWO PIECES	16d AT 1'-4"oc ALONG EA EDO
CEILING JOISTS TO PLATE, TOE NAIL	(3) 8d
CONTINUOUS HEADER TO STUD, TOE NAIL	(4) 8d
CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	(3) 16d
CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL	(3) 16d
RAFTER TO PLATE, TOE NAIL	(3) 8d
1" BRACE TO EACH STUD AND PLATE, FACE NAIL	(2) 8d
BUILT-UP CORNER STUDS	16d AT 2'-0"oc
BUILT-UP GIRDER AND BEAMS	20d AT 32"oc AT TO AND BOT
	AND STAGGERED. (2) 20d AT
	ENDS AND AT EA SPLICE.
*PLYWOOD AND PARTICLEBOARD:	
SUBFLOOR, ROOF AND WALL SHEATHING (TO FRAMING)	
1/2" AND LESS	8d
19/32" - 3/4"	8d OR 10d
7/8" - 1"	8d
1 1/8" - 1 1/4"	8d OR 10d
COMBINATION SUBFLOOR-UNDERLAYMENT (TO FRAMING)	ou OIV 100
3/4" AND LESS	6d
7/8" - 1"	8d
//U - I	ou

\*NAILS SPACED AT 6" ON CENTER AT EDGES 12" AT INTERMEDIATE SUPPORTS EXCEPT 6" AT ALL SUPPORTS WHERE SPANS ARE 48" OR MORE. REFER TO

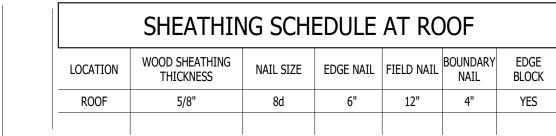
NAILING SCHEDULE IS PER TABLE 2304.9.1 OF THE I.B.C. 2012.

NAILING REQUIREMENTS SHOWN HERE DO NOT REPLACE HARDWARE

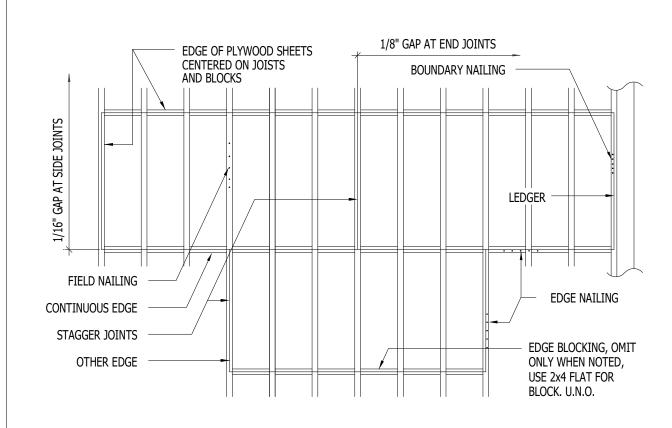
SHOWN ON PLANS OR DETAILS.

ALL NAILS USED ARE COMMON NAILS.

SHEARWALL SCHEDULE



1. MINIMUM NAIL PENETRATION INTO FRAMING 8d = 1 1/2", 10d = 1 5/8" 2. USE COMMON NAILS. (8d DIAMETER = 0.131", 10d DIAMETER = 0.148")



SHEATHING SCHEDULE AT ROOF AND FLOOR



ARCHITECT / CONSULTANT



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PROJECT DESCRIPTION SOUTHRIDGE PARK NEW RESTROOMS VOL.2

5051 SOUTH 4015 WEST TAYLORSVILLE, UTAH

SHEET NAME:

SCHEDULES

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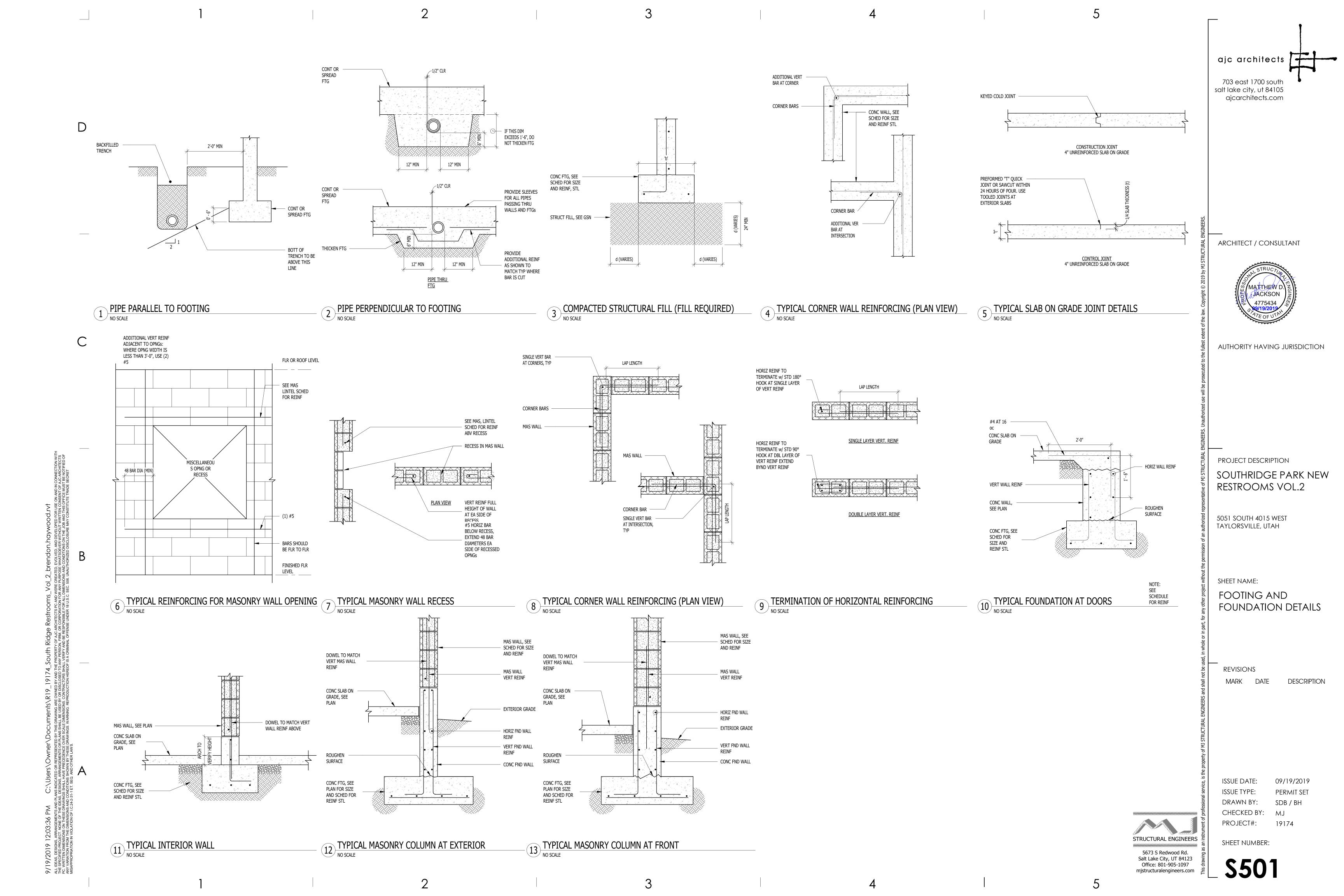
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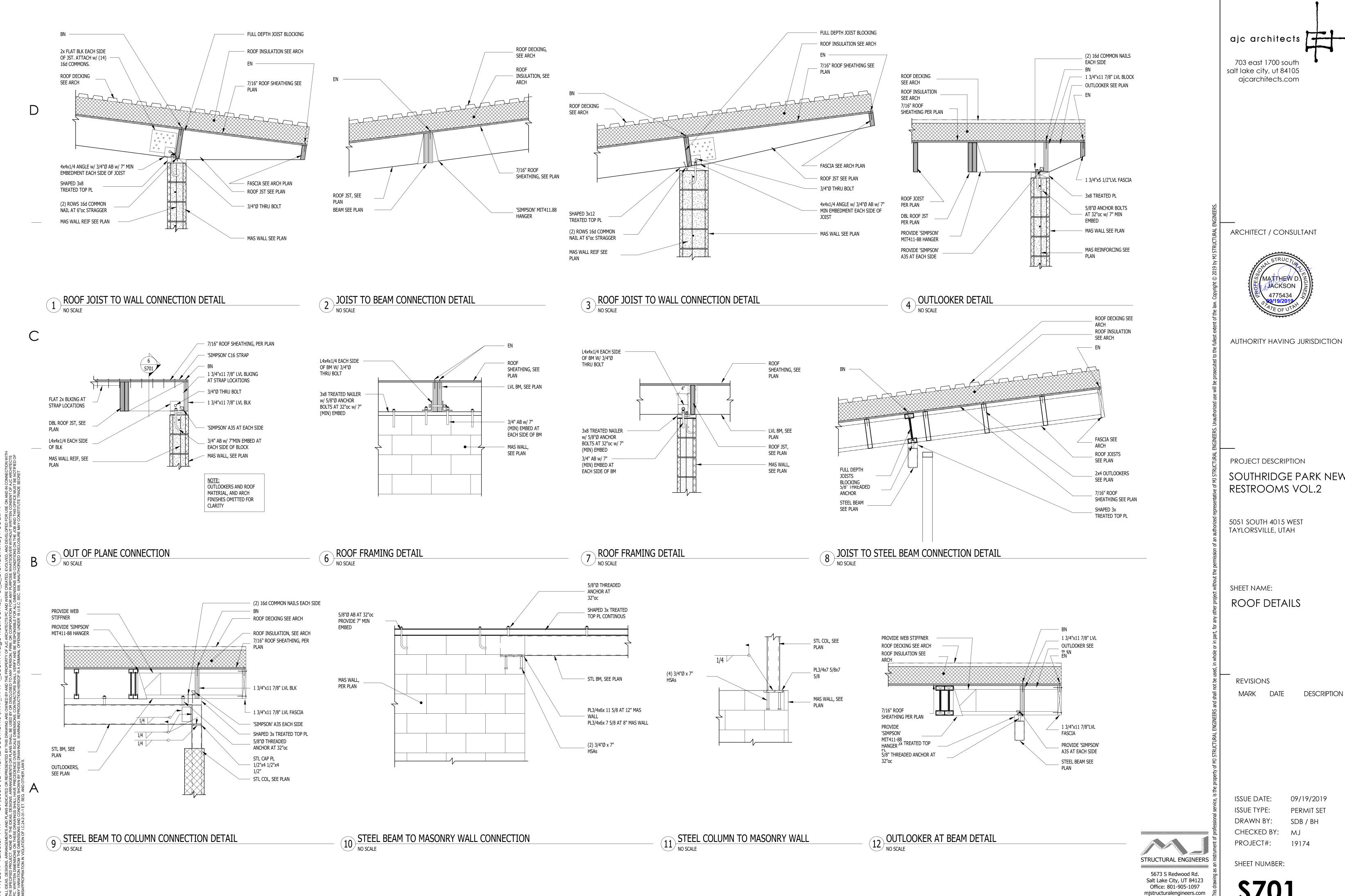
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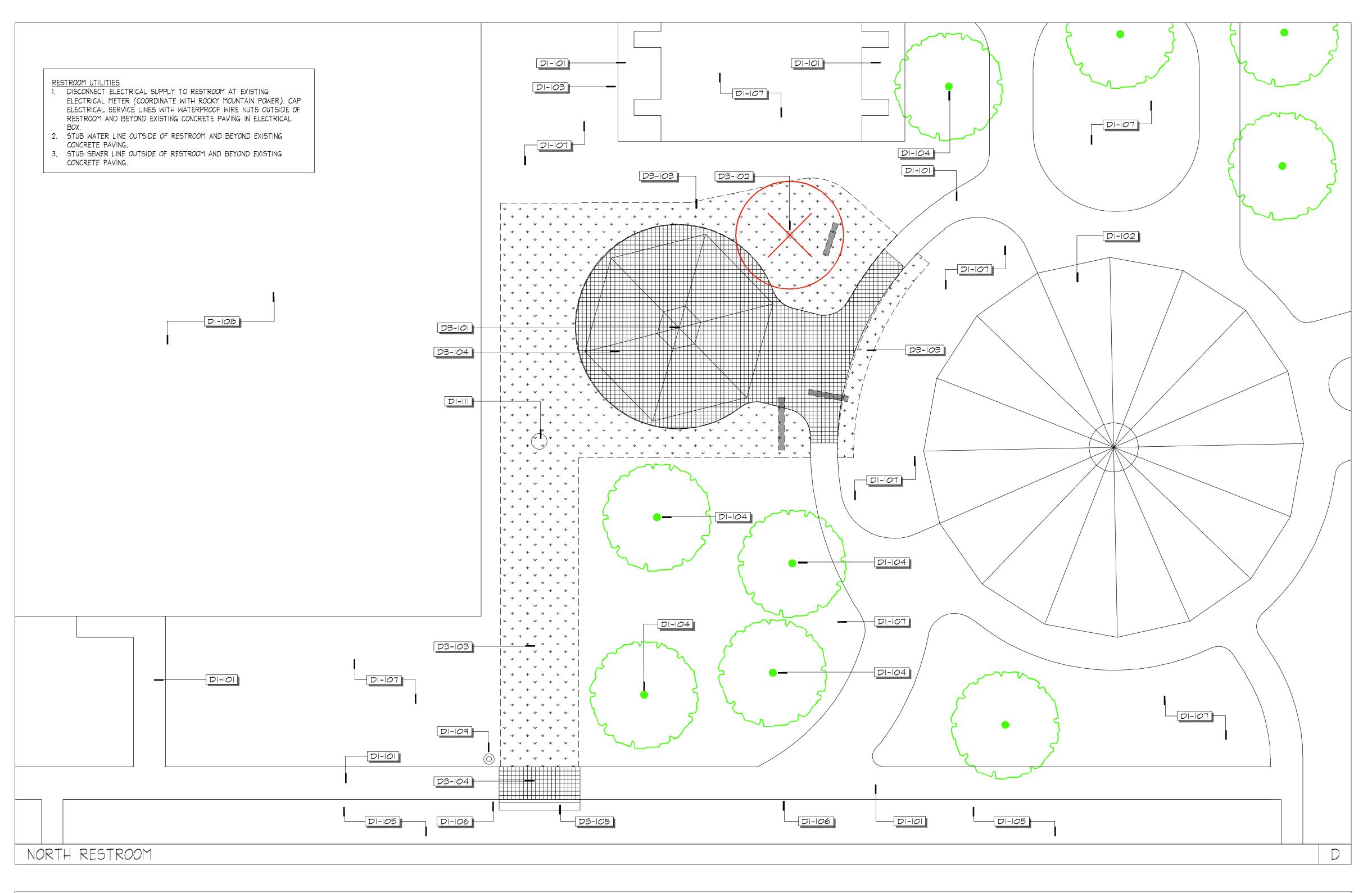
PROJECT#: 19174 STRUCTURAL ENGINEERS 5673 S Redwood Rd. Salt Lake City, UT 84123 Office: 801-905-1097 mjstructuralengineers.com

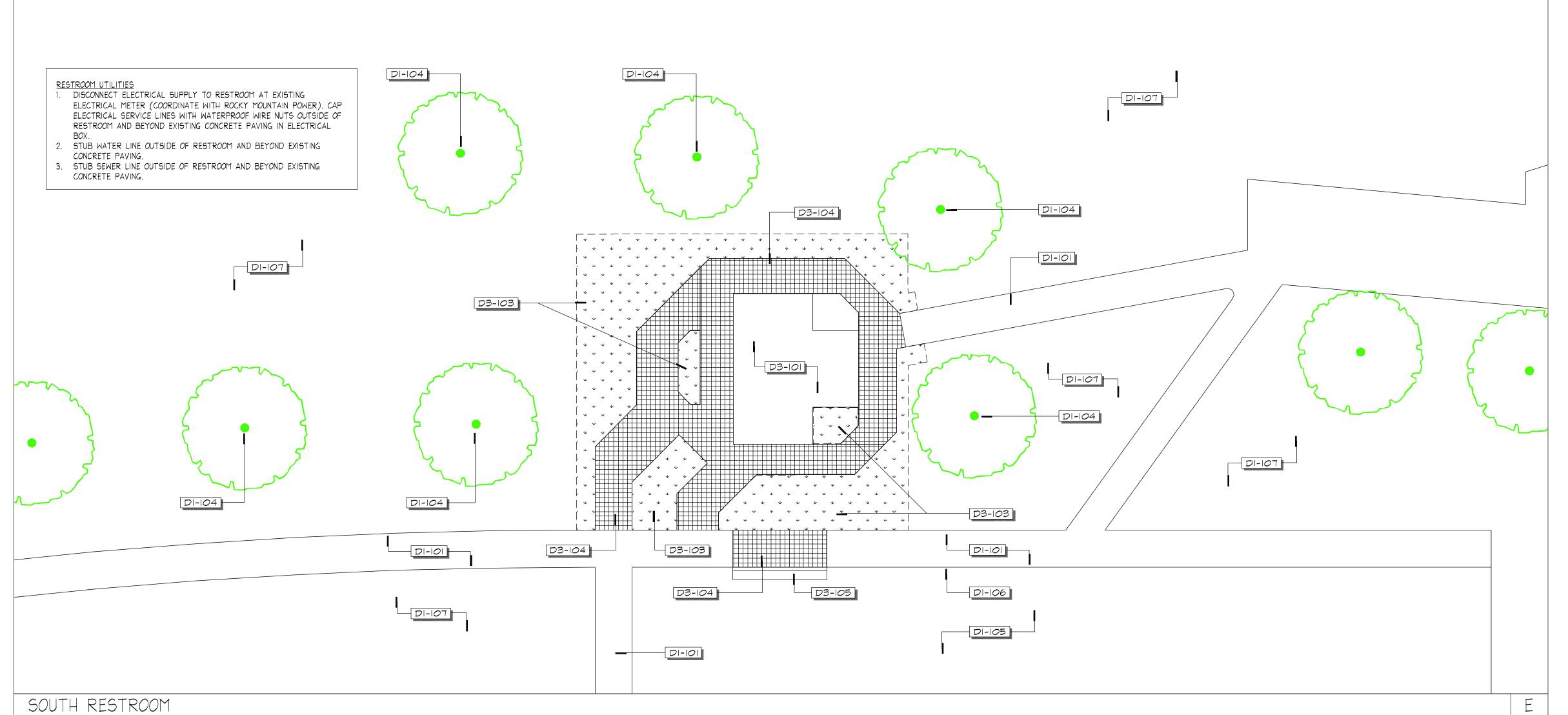


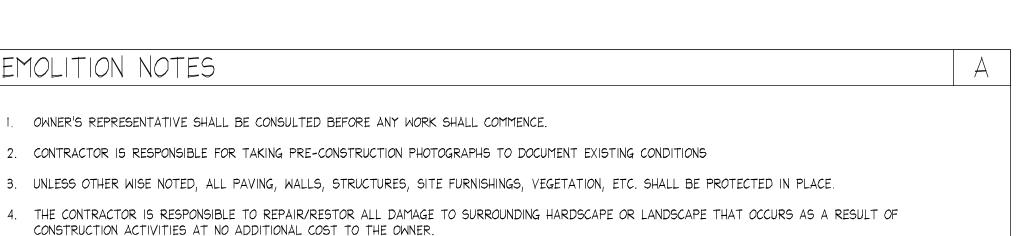




SOUTHRIDGE PARK NEW





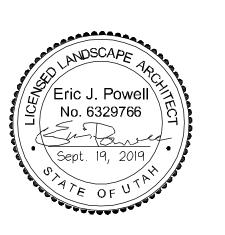


Architectural Site Design

1058 East 2100 South Salt Lake City, Utah 84106 office 801 . 487 . 4923 fax 801.466.3046 www.arcsitiodesign.com



stamp:



project

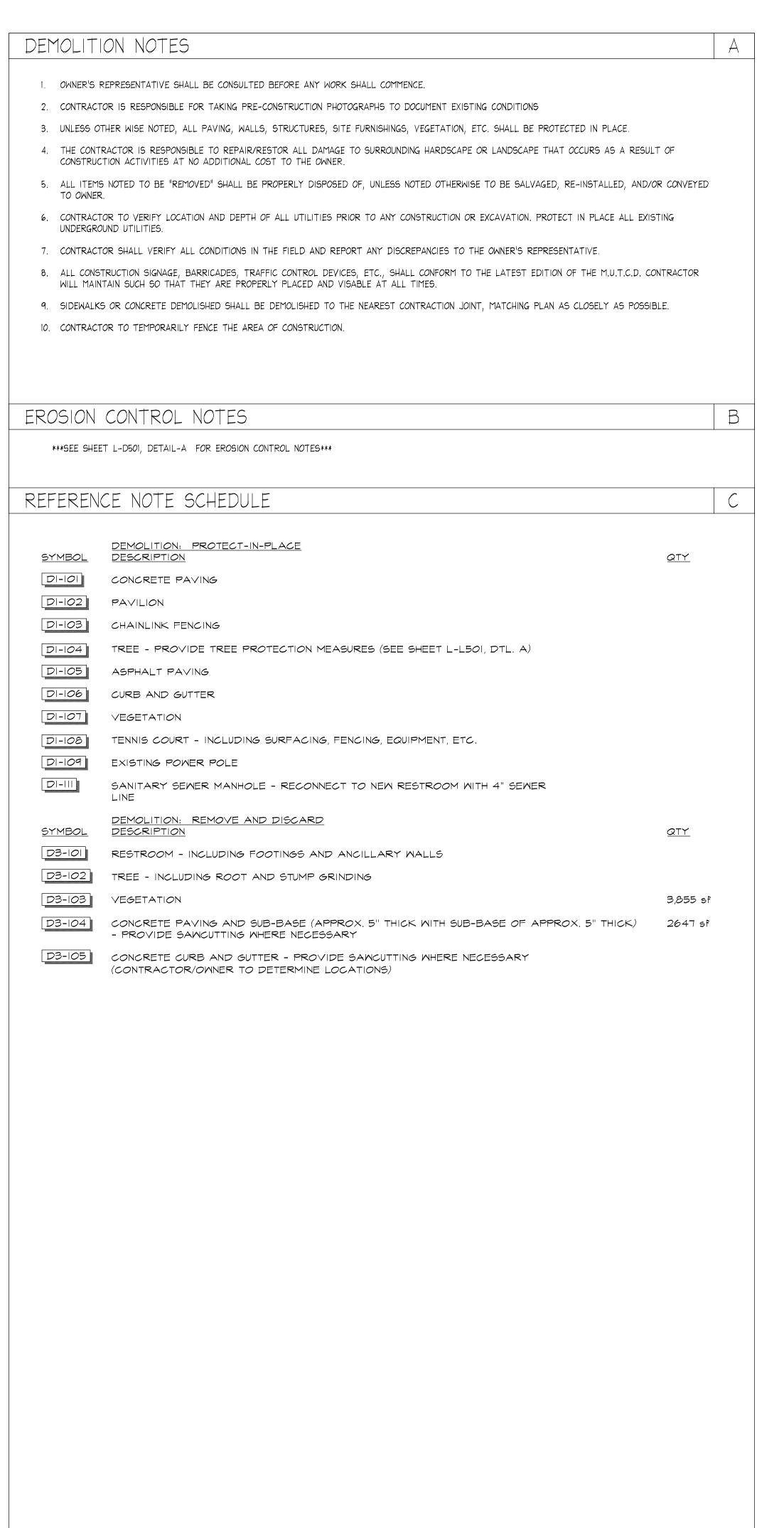
September 19, 2019

revisions

asd project no:

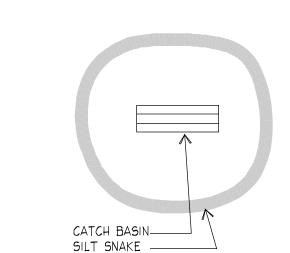
DEMOLITION

PLAN





SCALE: NTS



NOTE:
INSPECT THE SILT
SNAKES ON A
WEEKLY BASIS. IF
SILT SNAKE IS
SHOWING SIGNS OF
FAILURE REMOVE
AND REPLACE THOSE
SECTIONS OF THE
SILT SNAKE.

SECTION/PLAN

DIAGRAM





EXCESS AND WASTE CONCRETE SHALL NOT BE WASHED INTO THE STREET OR INTO A DRAINAGE SYSTEM.
 FOR WASHOUT OF CONCRETE AND MORTAR PRODUCTS, A DESIGNATED CONTAINMENT FACILITY OF SUFFICIENT CAPACITY TO RETAIN LIQUID AND SOLID WASTE SHALL BE

PROVIDED ON SITE.

3. SLURRY FROM CONCRETE AND ASPHALT SAW CUTTING SHALL BE VACUUMED OR CONTAINED, DRIED, PICKED UP AND DISPOSED OF PROPERLY.

CONCRETE WASTE MANAGEMENT

SCALE: NTS

A. PROHIBITION ON MOST NON-STORM WATER DISCHARGES

ONLY STORM WATER FROM THE PROJECT SITE SHALL BE ALLOWED TO FLOW INTO THE ON-SITE STORM DRAIN SYSTEM. CLEAN, NON-CHLORINATED WATER FROM THE FLUSHING OF FIRE HYDRANTS, WATER MAINS, AND STORM DRAINS MAY BE DISCHARGED TO THE STORM DRAIN IF IT IS NOT ALLOWED TO COLLECT DIRT, DEBRIS, AND TRASH WHILE FLOWING TO A STORM DRAIN INLET.

B. SOURCES OF STORM WATER POLLUTANTS

STORM WATER POLLUTANTS INCLUDE SOIL SEDIMENT AND NUTRIENTS, OIL, GREASE, TOXIC POLLUTANTS, AND HEAVY METALS. SOURCES OF STORM WATER POLLUTANTS INCLUDE BUT ARE NOT LIMITED TO SOIL EROSION BY WATER AND/OR WIND; CLEARING OF VEGETATION; GRADING; VEHICLE AND EQUIPMENT REFUELING AND MAINTENANCE; WASHING OF CONCRETE TRUCKS, MIXERS AND HANDLING EQUIPMENT; PAINTS, SOLVENTS AND ADHESIVES; AND LANDSCAPING WORK.

C. EROSION AND SEDIMENT CONTROLS

I. COVER EXPOSED STOCKPILES OF SOILS, CONSTRUCTION AND LANDSCAPING MATERIALS WITH HEAVY PLASTIC

2. IN LANDSCAPING AREAS WHERE THE VEGETATION HAS NOT ESTABLISHED GROWTH AND TAKEN HOLD, CONSTRUCT SANDBAG OR DIRT BERMS AROUND THEIR PERIMETER TO INSURE THAT WATER WILL BE CONTAINED INSIDE THE LANDSCAPING AREA AND THAT IT WILL NOT BE CONVEYED TO A STORM DRAIN INLET.

3. RE-VEGETATE AREAS WHERE LANDSCAPING HAS DIED OR NOT TAKEN HOLD.

4. DIVERT STORM WATER RUNOFF AROUND DISTURBED SOILS WITH BERMS OR DIRT SWALES.

D. OTHER CONTROLS

1. WASTE DISPOSAL

A. KEEP WASTE DISPOSAL CONTAINERS COVERED.

B. PROVIDE FOR THE WEEKLY (OR MORE FREQUENT, IF NECESSARY) DISPOSAL OF WASTE CONTAINERS.

C. PROVIDE CONTAINERS AT CONVENIENT LOCATIONS AROUND THE SITE.

2. SWEEPING OF SITE

A. PROVIDE DAILY SWEEPING BY HAND OR MECHANICAL MEANS (IF NEEDED) TO KEEP THE PAVED AREAS OF THE SITE FREE OF DUST, DIRT, AND DEBRIS.

B. DISPOSE OF ACCUMULATED DIRT IN WASTE CONTAINERS, OR HAUL IT OFF THE SITE TO A LANDFILL.

3. SANITARY/SEPTIC DISPOSAL

PORTABLE TOILETS AND OTHER SANITARY FACILITIES SHALL BE SERVICED WEEKLY AND PUMPED CLEAN BY A WASTE DISPOSAL COMPANY. NO TOXIC OR HAZARDOUS WASTE SHALL BE DISPOSED IN A PORTABLE TOILET OR IN THE ON-SITE SANITARY SEWER.

4. SPILLS

A. STORE ADEQUATE ABSORBENT MATERIALS, RAGS, BROOMS, SHOVELS, AND WASTE CONTAINERS ON THE SITE TO CLEAN-UP SPILLS OF MATERIALS SUCH AS FUEL, PAINT, SOLVENTS, OR CLEANERS. CLEAN UP MINOR SPILLS IMMEDIATELY.

B. FOR REPORTABLE QUANTITY OF HAZARDOUS OR TOXIC SUBSTANCE, SECURE THE SERVICES OF QUALIFIED PERSONNEL OR CLEAN-UP AND DISPOSAL.

5. VEHICLES AND EQUIPMENT

A. FIX LEAKS OF FUEL, OIL AND OTHER SUBSTANCES IMMEDIATELY.

B. PERFORM REFUELING AND SERVICE OF VEHICLES OR EQUIPMENT OFF-SITE WHEN POSSIBLE. IF REFUELING OR SERVICE OF EQUIPMENT IS PERFORMED ON-SITE, THEN PROVIDE AN IMPERVIOUS, CONTAINED AREA WHERE ANY SPILLS CAN BE CONTAINED WITHOUT FLOWING TO A STORM WATER INLET OR INTO THE GROUND.

C. USE DRIP PANS TO CATCH LEAKS AND SMALL SPILLS.

6. CONCRETE TRUCKS, MIXERS AND HANDLING EQUIPMENT

A. DO NOT DISPOSE OF WASHOUT FROM THE WASHING OF CONCRETE TRUCKS, MIXERS, AND HANDLING EQUIPMENT WHERE IT WILL FLOW INTO A STORM WATER INLET OR INTO A PUBLIC STREET.

B. PROVIDE A HOLDING TANK TO RECEIVE ANY WASHOUT FROM CONCRETE EQUIPMENT. DISPOSAL OF TANK CONTENTS SHOULD BE CONDUCTED BY A WASTE HANDLING FIRM.

C. PROVIDE A DESIGNATED AREA FOR WASHING ANY VEHICLES OR EQUIPMENT. DRAINAGE FROM THIS AREA SHOULD FLOW TO THE HOLDING TANK.

7. LANDSCAPING OPERATIONS

A. USE ONLY THE MINIMUM AMOUNT OF LANDSCAPING FERTILIZES, NUTRIENTS, AND OTHER CHEMICALS THAT ARE NEEDED.

B. DO NOT OVER WATER FERTILIZED OR TREATED LANDSCAPE AREAS. MINIMIZE RUNOFF OF IRRIGATION WATER FROM LANDSCAPING.

STORM WATER POLLUTION PREVENTION GENERAL NOTES

8. STORM WATER INLETS

SCALE: NTS

KEEP ALL ON-SITE STORM WATER INLETS CLEAN AND FREE OF DIRT AND DEBRIS. IN THE EVENT THAT SEDIMENT AND DEBRIS MAY FLOW TO AN INLET, PROVIDE AN 18-INCH (MINIMUM) STRAIN BARRIER AROUND THE INLET TO TRAP THE DIRT AND DEBRIS AND ALLOW ONLY CLEAN STORM WATER TO ENTER THE INLET.

E. INSPECTION

 REGULAR INTERVAL INSPECTION AND INSPECTION BEFORE AND AFTER STORMS

A. VISUALLY INSPECT THE SITE WEEKLY TO INSURE THAT STORM

WATER INLETS ARE FREE OF DIRT AND DEBRIS. B. BEFORE A STORM, INSPECT THE SITE TO INSURE THAT STORM WATER POLLUTION CONTROL MEASURES ARE IN PLACE.

C. AFTER A STORM, INSPECT ALL STORM WATER INLETS TO INSURE THAT THEY ARE CLEAR OF DIRT AND DEBRIS. CLEAN THOSE STORM WATER INLETS THAT ARE NOT CLEAR AND FREE OF DEBRIS.

D. THE UTAD DEQ WATER QUALITY DIVISION MAY REQUIRE THE DISCHARGER TO CONDUCT ADDITIONAL SITE INSPECTIONS, SUBMIT REPORTS AND CERTIFICATIONS, OR TO PERFORM SAMPLING AND ANALYSIS.

2. ALL DISCHARGERS ARE REQUIRED TO CONDUCT INSPECTIONS OF THE CONSTRUCTION SITE PRIOR TO ANTICIPATED STORM EVENTS AND AFTER ACTUAL STORM EVENTS, TO IDENTIFY AREAS CONTRIBUTING TO A STORM WATER DISCHARGE, TO EVALUATE WHETHER MEASURES TO REDUCE POLLUTANT LOADINGS IDENTIFIED IN THIS SWPPP ARE ADEQUATE, TO PROPERLY IMPLEMENT IN ACCORDANCE WITH THE TERMS OF THE GENERAL PERMIT, AND TO DETERMINE WHETHER ADDITIONAL CONTROL

3. PREPARATION OF REPORTS AND RETENTION OF RECORDS

PRACTICES ARE NEEDED.

A. EACH DISCHARGER MUST CERTIFY ANNUALLY THAT ITS CONSTRUCTION ACTIVITY IS IN COMPLIANCE WITH THE REQUIREMENTS OF THE GENERAL PERMIT AND THIS SWPPP. THIS CERTIFICATION MUST BE BASED ON THE SITE INSPECTIONS. THE FIRST CERTIFICATION MUST BE COMPLETED BY JULY 1, 2002, AND EACH JULY 1 THEREAFTER.

B. THE DISCHARGER IS REQUIRED TO RETAIN RECORDS OF ALL MONITORING INFORMATION, COPIES OF ALL REPORTS REQUIRED BY THIS GENERAL PERMIT, AND RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT FOR CONSTRUCTION ACTIVITY FOR A PERIOD OF AT LEAST THREE YEARS. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE STATE. WITH THE EXCEPTION OF NONCOMPLIANCE REPORTING, DISCHARGERS ARE NOT REQUIRED TO SUBMIT THE RECORDS EXCEPT UPON SPECIFIC REQUEST BY THE STATE DEQ DIVISION OF WATER QUALITY.

C. DISCHARGERS WHO CANNOT CERTIFY COMPLIANCE MUST NOTIFY THE STATE DEQ DIVISION OF WATER QUALITY. THIS NOTIFICATION SHALL IDENTIFY THE TYPE OR TYPES OF NONCOMPLIANCE, DESCRIBE THE ACTIONS NECESSARY TO ACHIEVE COMPLIANCE, AND INCLUDE A TIME SCHEDULE, SUBJECT TO THE MODIFICATIONS BY THE STATE DEQ DIVISION OF WATER QUALITY, INDICATING WHEN COMPLIANCE WILL BE ACHIEVED. NONCOMPLIANCE REPORTS MUST BE SUBMITTED WITHIN 30 DAYS OF THE IDENTIFICATION OF THE NONCOMPLIANCE.

F. MAINTENANCE OF CONTROLS

I. MAINTENANCE AND REPAIR

ALL CONTROLS AND MEASURES INDICATED ON THIS PLAN SHOULD BE MAINTAINED IN GOOD AND EFFECTIVE CONDITION. IF ANY CONTROLS OR MEASURES ARE DAMAGED OR REMOVED, THEY SHOULD BE PROMPTLY REPAIRED OR RESTORED.

PLAN REVISIONS
 IF CONSTRUCTION ACTIVITY OR CONDITIONS CHANGE FROM THOSE SHOWN IN THIS PLAN, THEN THIS PLAN SHALL BE REVISED
 TO REFLECT THE CURRENT CONDITIONS.

G. STABILIZATION PRACTICES

I. STABILIZATION PRACTICES MAY INCLUDE: TEMPORARY SEEDING, PERMANENT SEEDING, MULCHING, GEOTEXTILES, SOD STABILIZATION, VEGETATIVE BUFFER STRIPS, PROTECTION OF TREES, PRESERVATION OF MATURE VEGETATION AND OTHER APPROPRIATE MEASURES. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITR HAS TEMPORARILY OR PERMANENTLY CEASED EXCEPT AS NOTED BELOW.

a. WHERE THE INITIATION OF STABILIZED MEASURES BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASED IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS, STABILIZATION MEASURES

SHALL BE INITIATED AS SOON AS PRACTICALBE

b. WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 21 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.

H. FINAL STABILIZATION AND POST-CONSTRUCTION CONTROLS

I. AFTER CONSTRUCTION HAS BEEN COMPLETED, THE SITE SHALL BE SWEPT CLEAN, STORM WATER INLETS (GRATES AND BASINS) SHALL BE CLEANED, AND ALL WASTE AND LEFTOVER MATERIALS SHALL BE REMOVED FROM THE SITE.

2. ALL LANDSCAPING AND PLANTING AREAS SHOULD BE WELL MAINTAINED TO PREVENT EROSION. AVOID OVER WATERING OF LANDSCAPING.

3. ALL PAVED AREAS SHOULD BE SWEPT WEEKLY EITHER BY HAND OR BY MECHANICAL MEANS TO KEEP THE SITE CLEAR OF DIRT, DUST, AND DEBRIS.

4. WASTE MATERIALS ON-SITE SHOULD BE STORED IN COVERED CONTAINERS WHICH ARE CLEANED OUT REGULARLY.

5. TESTING OF FIRE HYDRANTS ON-SITE SHALL NOT BE CONDUCTED UNTIL THE AREA WHERE THE WATER DISCHARGES HAS

BEEN SWEPT CLEAN OF DIRT AND DEBRIS.

6. STORM DRAIN LINES SHOULD BE CHECKED AND CLEANED ANNUALLY TO KEEP THEM CLEAN AND CLEAR OF DEBRIS.

7. ALL ON-SITE STORM WATER INLETS SHOULD BE CLEARLY MARKED "STORM WATER ONLY".

I. COMPLETION OF CONSTRUCTION ACTIVITIES AND NOTICE OF TERMINATION

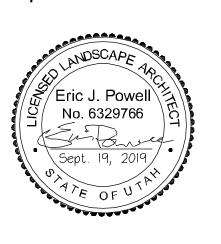
WHEN CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED ON THIS SITE, THE OWNER SHALL FILE A LETTER WITH THE STATE DEQ DIVISION OF WATER QUALITY. THIS LETTER SHALL CERTIFY THAT THE CONSTRUCTION ACTIVITY HAS BEEN COMPLETED, THAT ALL ELEMENTS OF THE SWPPP HAVE BEEN IMPLEMENTED, THAT CONSTRUCTION AND EQUIPMENT MAINTENANCE WASTES HAVE BEEN DISPOSED OF PROPERLY, THAT THE SITE IS IN COMPLIANCE WITH ALL LOCAL STORM WATER REQUIREMENTS INCLUDING EROSION/SEDIMENT CONTROL REQUIREMENTS, POLICIES, AND GUIDELINES.

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project

# SOUTHRIDGE PARK RESTROOM REPLACEMENT 5051 SOUTH 4015 WEST, TAYLORSVILLE, UT 84118

date

September 19, 2019

revisions

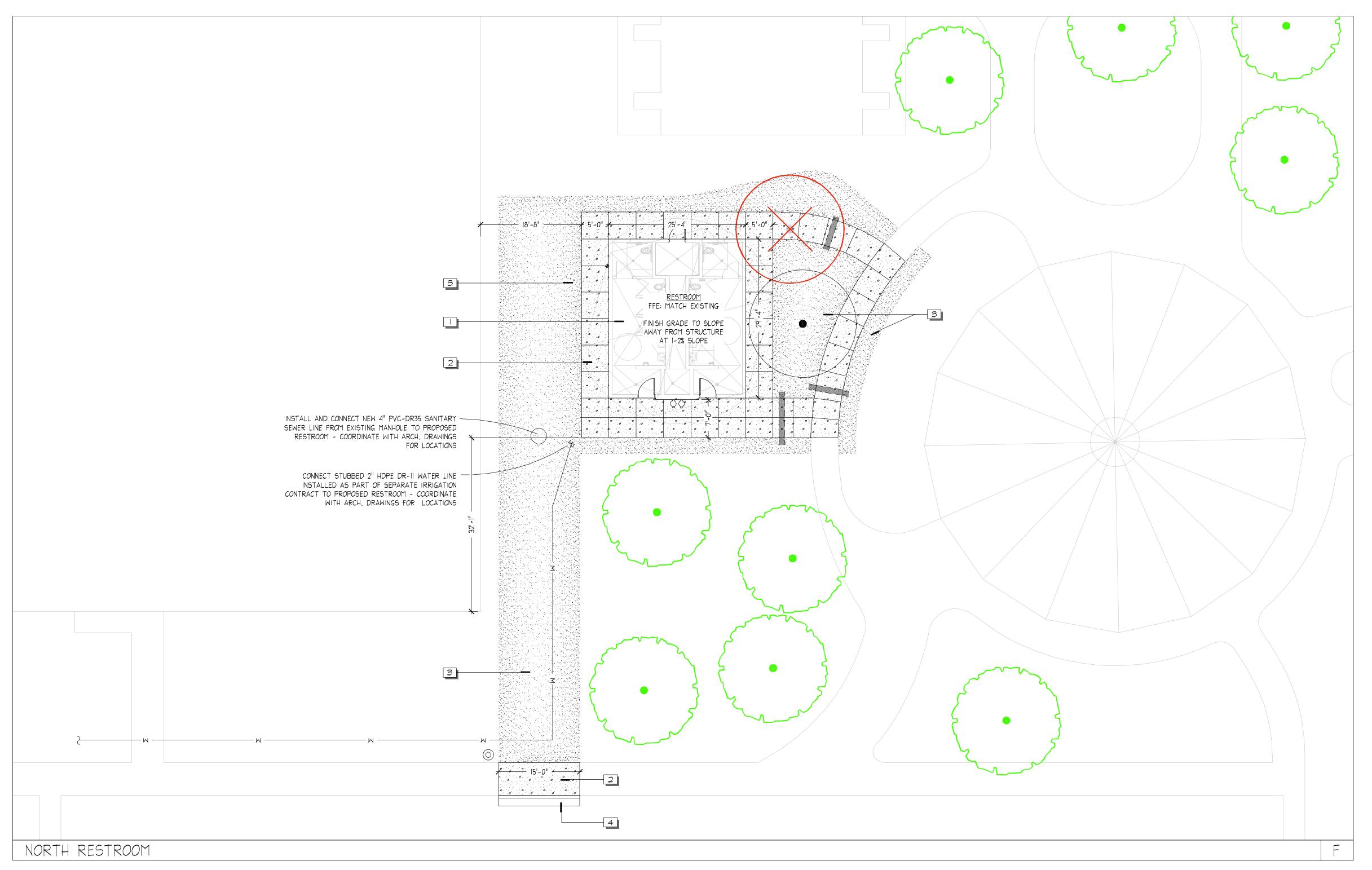
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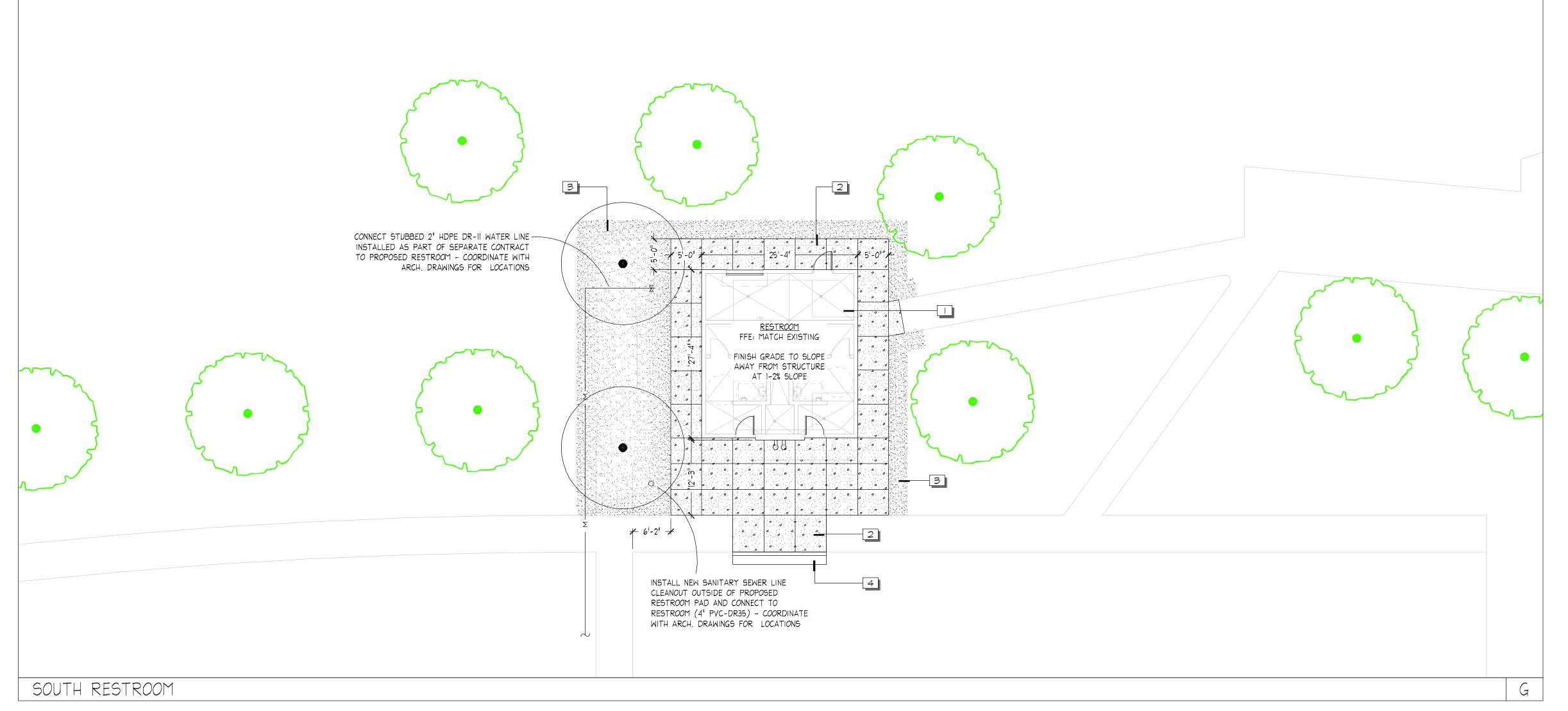
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EROSION CONTROL
NOTES & DETAILS

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GRADING NOTES

- 1. CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY INTO EXISTING. ALL RIDGES AND VALLEYS SHALL HAVE A SMOOTH TRANSITION FROM THE VALLEYS TO THE RIDGES.
- 2. CONTRACTOR SHALL VERIFY ALL EXISTING GRADES IN THE FIELD AND REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT.
- 3. ANY ALTERATIONS TO THESE DRAWINGS DURING CONSTRUCTION SHALL BE REPORTED TO THE LANDSCAPE ARCHITECT AND RECORDED ON "AS BUILT"

LAYOUT NOTES

1. LANDSCAPE ARCHITECT TO PROVIDE ELECTRONIC CAD FILE TO CONTRACTOR/SURVEYOR FOR CONSTRUCTION STAKING PURPOSES.

- 2. ALL LINES AND DIMENSIONS ARE PARALLEL OR PERPENDICULAR TO THE LINES FROM WHERE MEASURED UNLESS OTHERWISE INDICATED.
- 3. ALL LAYOUT AND GRADE WORK AS PER DRAWINGS AND SPECIFICATIONS SHALL BE LAID OUT BY A REGISTERED CIVIL ENGINEER OR SURVEYOR.
- 4. ALL CURVES TO TANGENT LINES SHALL BE NEAT, TRIM, SMOOTH AND UNIFORM.
- 5. WHEN THE WRITTEN DIMENSION IS DIFFERENT FROM THE SCALED DIMENSION, THE WRITTEN DIMENSION SHALL PREVAIL AND THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED IN WRITING BEFORE PROCEEDING WITH WORK IN THE AREA IN QUESTION.
- 6. SIDEWALK EXPANSION JOINTS SHALL BE PLACED WHERE CALLED FOR ON PLAN OR AT A MAXIMUM OF 10' O.C.. 1/2" EXPANSION JOINTS SHALL BE PROVIDED AT LOCATIONS WHERE SIDEWALKS ADJOIN CURBS OR EXISTING SIDEWALKS.
- 7. OWNER'S REPRESENTATIVE SHALL BE CONSULTED BEFORE ANY WORK SHALL COMMENCE.
- 8. CONTRACTOR SHALL VERIFY ALL CONDITIONS IN THE FIELD AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE.

LANDSCAPE NOTES

- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING HIMSELF FAMILIAR WITH ALL UNDERGROUND UTILITIES, PIPES AND STRUCTURES. CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR ANY COSTS INCURRED DUE TO DAMAGE OF SAID UTILITIES.
- 2. CONTRACTOR SHALL NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WHEN IT IS OBVIOUS THAT OBSTRUCTIONS AND/OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNERS REP. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.
- 3. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH SUBCONTRACTORS AS REQUIRED TO ACCOMPLISH THE LANDSCAPE CONSTRUCTION FOR THIS PROJECT.
- 4. ALL PLANT MATERIAL SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE UPON DELIVERY TO THE SITE, AND PRIOR TO INSTALLATION. ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT AND CULTURE ONLY AS APPROVED BY THE OWNER'S REPRESENTATIVE.
- 5. THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON THE DRAWINGS. IF
  DISCREPANCIES ARISE BETWEEN ACTUAL PLANTING AREA SIZES IN THE FIELD AND THOSE SHOWN ON THE PLANS, CONTRACTOR SHALL CONTACT THE OWNER'S
  REPRESENTATIVE FOR RESOLUTION. FAILURE TO MAKE SUCH CONFLICTS KNOWN WILL RESULT IN CONTRACTOR'S LIABILITY FOR MATERIALS RELOCATION.
- 6. FINAL LOCATIONS OF ALL PLANT MATERIALS SHALL BE SUBJECT TO APPROVAL OF THE OWNER'S REPRESENTATIVE. TREES SHALL NOT BE PLANTED LESS THAN 5'-0" FROM CURBS OR HARD SURFACE AREAS UNLESS A ROOT BARRIER IS INSTALLED.
- 7. CONTRACTOR SHALL PROVIDE SOIL ANALYSIS AND AMEND SOIL AS RECOMMENDED SEE SPECS.

PLANTING SCHEE	DULE						D
<u>TREES</u>	BOTANICAL NAME	COMMON NAME	<u>CONT</u>	CAL		<u>aty</u>	
	-	EXISTING TREE TO REMAIN	-			18	
$(\times)$	-	EXISTING TREE TO BE REMOVED	-			I	
•	Malus 'Prarie Fire'	Prarie Fire Crabapple	B & B	2.5"		3	
GROUND COVERS	BOTANICAL NAME	COMMON NAME	CONT		SPACING	<u>aty</u>	
	New Turf / Turf Repair	Install/repair turf as necessary	sod			3,455	5 sf

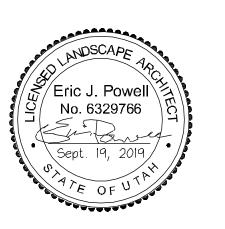
REFEREN	CE NOTE SCHEDULE		
<u>SYMBOL</u>	DESCRIPTION	<u>aty</u>	
	RESTROOM - SEE ARCHITECTURAL DWGS. CONTRACTOR TO MAKE FINAL CONNECTIONS TO EXISTING UTILITIES		
2	CONCRETE PAVING, - SEE SHT. L-L501 DTLB	2,153 sf	
3	SOD AREA TO RECEIVE 4" OF TURF TOPSOIL MIX, TYP REFER TO SPECS.	3,4 <i>0</i> 5 sf	
4	CURB AND GUTTER - MATCH EXISTING		

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SOUTHRIDGE PARK
RESTROOM REPLACEMENT

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GRADING, LANDSCAPE AND LAYOUT PLANS

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MODELL .

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1 PROTECTIVE ROOT ZONE (PRZ)TO CALCULATE CRITICAL ROOT
RADIUS, MEASURE THE TREE'S
DIAMETER 4.5 FEET ABOVE THE
GROUND (DBH). MEASURE IN
INCHES. FOR EACH INCH, ALLOW
FOR I TO 1.5 FEET OF CRITICAL
ROOT RADIUS. IF A TREE'S DBH NOTES:

I. PRUNE DEAD, DISEASED, DAMAGED, OR RUBBING BRANCHES AT PLANTING TIME. DO NOT PRUNE LEADER.

2. REMOVE ALL LABELS, WIRES, ETC. FROM THE TREE'S STEM.

3. PLANT TREE PLUMB. (I) MULCH I" TO 2" BACK FROM TRUNK (2) MULCH - SEE SPECS 3 TOPSOIL MIX - PER DRAWINGS AND SPECS (4) UNDISTURBED SUBGRADE IS TEN INCHES, ITS CRITICAL (5) IF THE TREE IS BALLED AND ROOT RADIUS IS 10 TO 15 FEET.

(2) MULCH I" TO 2" BACK FROM TRUNK WITHIN THE PRZ •<del>-</del>4 BURLAPPED, CUT AND COMPLETELY REMOVE THE ROPE, STRING, WIRE, AND/OR WIRE BASKET AND REMOVE BURLAP (3) TREE PROTECTION BARRIER-FROM AROUND THE TRUNK \$ TOP SEE SPECIFICATIONS. REVIEW 1/3 OF THE ROOT BALL DESIGN WITH OWNER'S REPRESENTATIVE PRIOR TO 6 SET ROOTBALL ON UNDISTURBED INSTALLATION. SUBGRADE <u>PLAN</u> (7) TRUNK FLAIR- SET 1" TO 2" 4 TREE TRUNK ABOVE FINISH GRADE 8) MAKE THE HOLE WIDE, AS MUCH NOTES:

1. TRENCHING WITHIN THE PRZ:

TRENCHES SHALL ONLY BE DUG
ON ONE SIDE OF THE TREE AND AS THREE TIMES THE DIAMETER OF THE ROOT BALL, BUT ONLY AS DEEP AS THE ROOT BALL. BACKFILL WITH 1/2 TOPSOIL SHALL BE DONE ONLY WITH FROM PIT AND 1/2 TOPSOIL MIX APPROVAL FROM THE OWNER'S - PER DRAWINGS AND SPECS REPRESENTATIVE. HAND ) REMOVE SOD AT DRIPLINE OF TREE TO FORM TREE WELL OR A EXCAVATION ONLY. 2. DO NOT STOCKPILE ANY MIN. WIDTH OF 3'-0" DIA. MATERIALS OR LOCATE ANY HEAVY MACHINERY WITHIN THE PRZ. TRAFFIC WITHIN THE PRZ ROUGHEN SIDES PRIOR TO BACKFILLING. SETTLE W/ WATER IS PROHIBITED. IN 12" LIFTS 3. ONLY MOVE BARRIER WITH THE PERMISSION OF THE OWNER'S (1) IF PLANTED IN LATE FALL, WRAP TRUNK, STARTING AT THE REPRESENTATIVE. BOTTOM TO THE FIRST SET OF 4. REFER TO SPECS. BRANCHES, REMOVE THE WRAP SPRING, AFTER THE LAST L EQUAL L EQUAL L EQUAL L FROST, ONLY WRAP IF SUN HITS TREE PROTECTION TREE STAKING ALONG ROADS OR WALK (ALL TREES LESS THAN 2" ITS TRUNK IN WINTER. DO NOT PLANT LAWN IN TREE SCALE: NTS SECTION/PLAN (3) 3" OR WIDER NYLON WEBBING W/ METAL GROMMETS CONCRETE PAVING, THICKENED EDGE TYP. AT BOTH SIDES (14) 8'-0" X 2" DIA. ROUND WOOD STAKES, TWO PER TREE (THE STAKES SHALL BE PLUMB AND (2) TOP OF FINISH GRADE TREE STAKING IN OPEN SPACES SET AT THE SAME HIEGHT) -\ 3 UNTREATED BASE COURSE (TRESS UP TO 2" CALIPER). (15) DOUBLE STRAND PLIABLE NO. ( 4) 1/8" RADIUS ALIGN STAKES PERPENDICÚLAR 10-GAGE GALVANIZED STEEL W/ DIRECTION OF PREVAILING 5 COMPACTED SUBGRADE WIRE OR VINYL-COATED STEEL WIRE, DO NOT PULL TAUT WINDS. ALL STAKES TO BE (6) CONTRACTION JOINT OR CONSISTENT. ) FERTILIZER TABLET - SEE SPECS. EXPANSION JOINT — <u>TREE STAKING</u> ALIGN 2 STAKES PARALLEL W/ ROAD OR WALK (USE (17) EDGE OF WALK OR CURB THREE STAKES FOR ALL DECIDUOUS TREES GREATER THAN (8) TREE GAURD ON ALL TREES IN TURF <u>NOTES:</u> 1. REFER TO SALT LAKE COUNTY SPECIFICATIONS DECIDUOUS TREE WITH STAKING CONCRETE PAVING SECTION SCALE: NTS SECTION SCALE: NTS 1) CONCRETE FLATWORK (2) 1/2" PRE MOLDED EXPANSION FILLER STRIP PLACED AT 30'-0" O.C. OR AS SHOWN 3 TOOLED JOINT, PLACED AT 5'-0"
O.C. OR AS SHOWN. DEPTH OF
JOINT SHALL EQUAL 1/4 EXPANSION JOINT (EJ) THICKNESS OF SLAB TOP OF FINISH GRADE (5) 1/8" RADIUS 1. REFER TO SALT LAKE COUNTY SPECIFICATIONS 2. INSTALL EXPANSION JOINTS WHERE FLATWORK MEETS VERTICAL SURFACE OF CURB WALLS. CONTRACTION JOINT (CJ) JOINTS

SCALE: NTS TURF EDGE D 2 TREE TRUNK (3) ROOTBALL (4) STAKING SYSTEM- LOCATE STAKES WITHIN THE TURF EDGE (5) MULCH AS SPECIFIED (6) REMOVE SOD AT DRIPLINE OF TREE- MIN. WIDTH OF 3'-0" DIA. TURF TREE IN TURF

SCALE: NTS MULCH AS SPECIFIED 3) SHRUB BED (4) TOPSOIL MIX LAYER 5 SHOVEL EDGE 6 SUBGRADE

SHOVEL TURF EDGE SCALE: NTS

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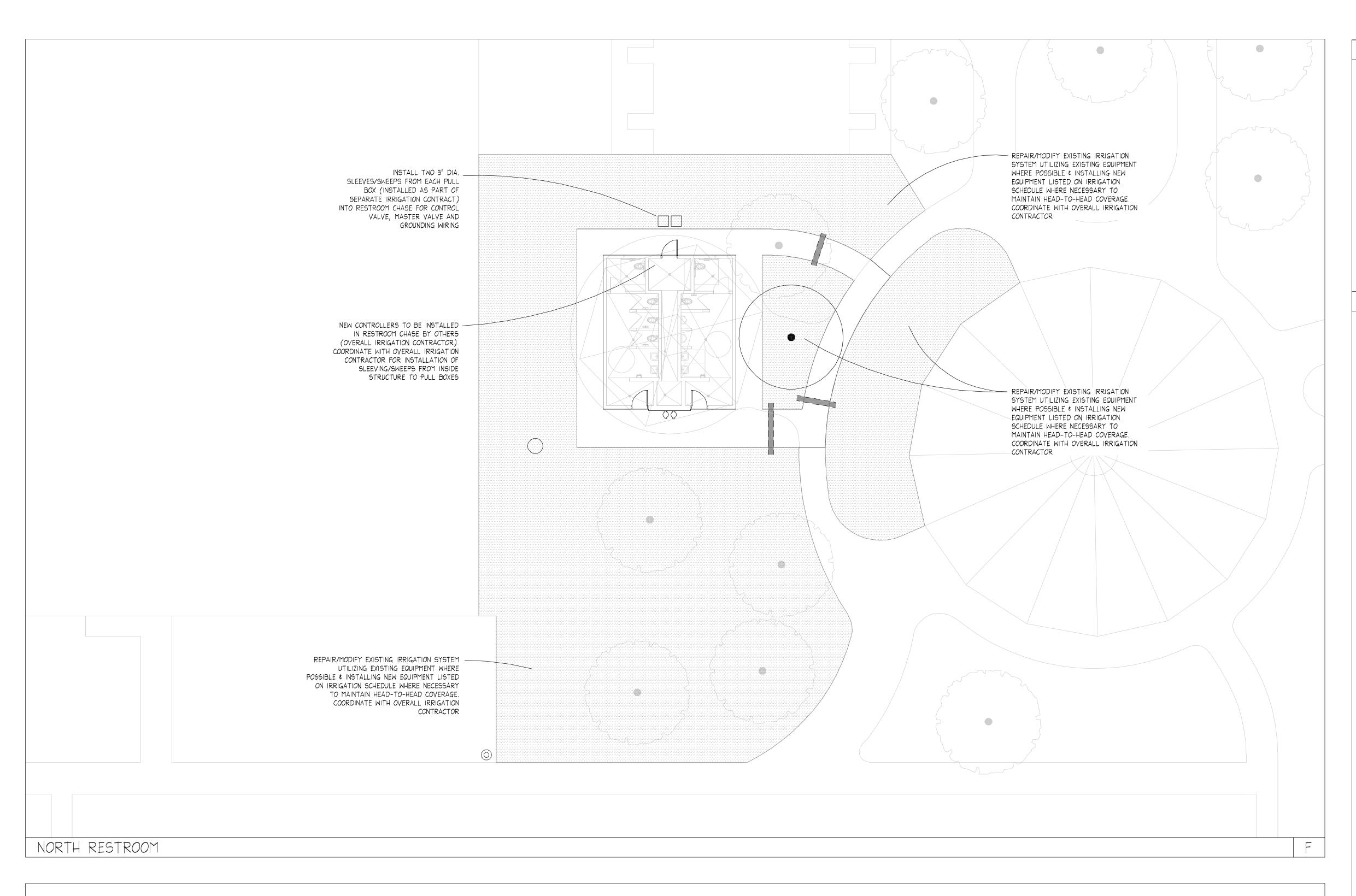
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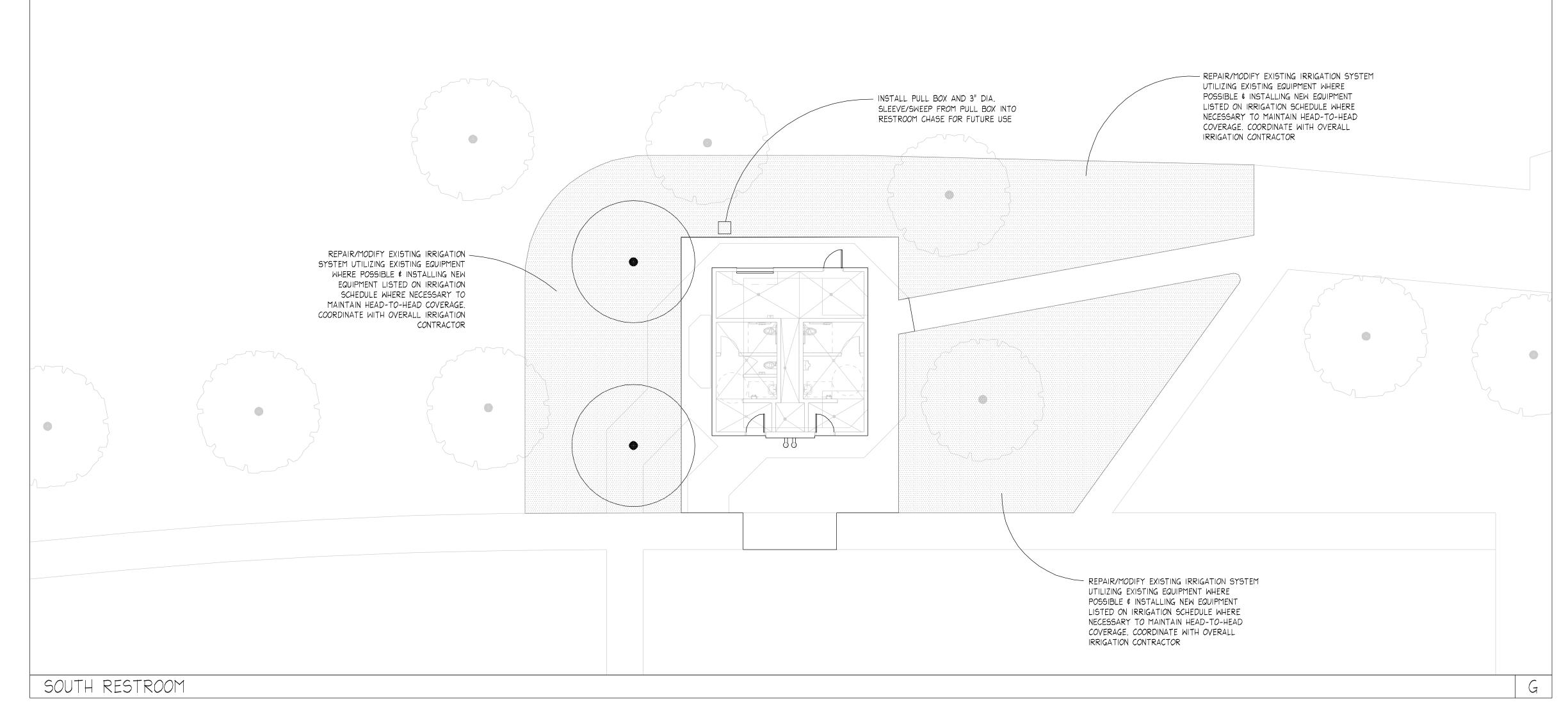
SITE AND LANDSCAPE DETAILS

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IRRIGATION NOTES

1. THE CONTRACTOR SHALL FLUSH AND ADJUST ALL SPRINKLER HEADS AND VALVES FOR OPTIMUM COVERAGE. INSTALL NOZZLES OF THE APPROPRIATE DEGREE AND RADIUS FOR THE AREA TO BE COVERED. ADJUST ALL NOZZLES TO MINIMIZE SPRAYING ONTO WALKS, BUILDINGS, ETC.

2. ALL IRRIGATION EQUIPMENT NOT OTHERWISE DETAILED OR SPECIFIED SHALL BE INSTALLED AS PER MANUFACTURES SPECS.

3. ALL PIPE INSTALLED IN PAVING SHALL BE SLEEVED (SEE IRRIGATION SCHEDULE AND DETAILS).

# EXISTING IRRIGATION SYSTEM NOTES

- 1. THE CONTRACTOR SHALL MAINTAIN THE EXISTING IRRIGATION SYSTEM IN GOOD WORKING CONDITION AND PHASE/SEQUENCE CONSTRUCTION IN ORDER TO ENSURE THAT EXISTING PLANT MATERIAL RECEIVES THE PROPER AMOUNT OF WATER DURING ALL PHASES OF CONSTRUCTION.
- 2. THE CONTRACTOR SHALL MAKE MODIFICATIONS TO THE EXISTING IRRIGATION SYSTEM AS REQUIRED WHERE EXISTING IRRIGATION ZONES WILL BE DISRUPTED DUE TO PROPOSED CONSTRUCTION. MODIFICATIONS MAY INCLUDE BUT IS NOT LIMITED TO: RE-ROUTING EXISTING IRRIGATION MAINLINES AND LATERAL LINES, RELOCATING EXISTING IRRIGATION VALVES AND CONTROL WIRING, AND RELOCATING EXISTING IRRIGATION HEADS.
- 3. THE CONTRACTOR MAY ALSO BE REQUIRED TO HAND-WATER EXISTING PLANT MATERIAL AS REQUIRED DURING CONSTRUCTION IN ORDER TO KEEP EXISTING PLANT MATERIAL HEALTHY AND IN GOOD CONDITION.
- 4. DEAD, OR DYING PLANT MATERIAL NEEDING TO BE REPLACED DUE TO LACK OF IRRIGATION DURING CONSTRUCTION WILL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

IRRIGATION SCHEDULE B

IRRIGATION SCHEDU				
<u>SYMBOL</u>	MANUFACTURER/MODEL/DESCRIPTION	<u>PSI</u>	<u>GPM</u>	RADIUS_
1.0	Rain Bird 5004-PC, FC-SAM-SS-LA Turf Rotor, 4.0" Pop-Up, Stainless Steel Riser. Adjustable and Full Circle. Low Angle Nozzle. Pressure regulating with Seal-A-Matic Check Valve.	25	0.73	25'
1.5	Rain Bird 5004-PC, FC-SAM-SS-LA Turf Rotor, 4.0" Pop-Up, Stainless Steel Riser. Adjustable and Full Circle. Low Angle Nozzle. Pressure regulating with Seal-A-Matic Check Valve.	25	1.15	27'
2.0	Rain Bird 5004-PC, FC-SAM-SS-LA Turf Rotor, 4.0" Pop-Up, Stainless Steel Riser. Adjustable and Full Circle. Low Angle Nozzle. Pressure regulating with Seal-A-Matic Check Valve.	25	1.47	29'
3.0	Rain Bird 5004-PC, FC-SAM-SS-LA Turf Rotor, 4.0" Pop-Up, Stainless Steel Riser. Adjustable and Full Circle. Low Angle Nozzle. Pressure regulating with Seal-A-Matic Check Valve.	25	2.23	29'
04	Rain Bird F4-PC, FC-SS Turf Rotor, 4.0" Pop-Up, Stainless Steel Riser, Adjustable and Full Circle. With Removable Seal-A-Matic Check Valve	40	3.30	41'
Ø6	Rain Bird F4-PC, FC-SS  Turf Rotor, 4.0" Pop-Up, Stainless Steel Riser,  Adjustable and Full Circle. With Removable  Seal-A-Matic Check Valve	40	4.90	45'
08	Rain Bird F4-PC, FC-SS Turf Rotor, 4.0" Pop-Up, Stainless Steel Riser, Adjustable and Full Circle. With Removable Seal-A-Matic Check Valve	40	6.60	49'
1Ø	Rain Bird F4-PC, FC-SS Turf Rotor, 4.0" Pop-Up, Stainless Steel Riser, Adjustable and Full Circle. With Removable Seal-A-Matic Check Valve	40	8.10	51'
12	Rain Bird F4-PC, FC-SS Turf Rotor, 4.0" Pop-Up, Stainless Steel Riser, Adjustable and Full Circle. With Removable Seal-A-Matic Check Valve	40	9.70	53'
14	Rain Bird F4-PC, FC-SS Turf Rotor, 4.0" Pop-Up, Stainless Steel Riser, Adjustable and Full Circle. With Removable Seal-A-Matic Check Valve	40	II.3	55'
16	Rain Bird F4-PC, FC-SS Turf Rotor, 4.0" Pop-Up, Stainless Steel Riser, Adjustable and Full Circle. With Removable Seal-A-Matic Check Valve	40	12.6	55'
18	Rain Bird F4-PC, FC-SS  Turf Rotor, 4.0" Pop-Up, Stainless Steel Riser,  Adjustable and Full Circle. With Removable  Seal-A-Matic Check Valve	40	13.7	59'
SYMB <i>O</i> L	MANUFACTURER/MODEL/DESCRIPTION			
	Rain Bird PESB  ",  - /2", 2" Plastic Industrial Valves. Low Flow Operating Capability, Globe Configuration.			
	Rain Bird 44-LRC 1" Brass Quick-Coupling Valve, with Locking Thermoplastic Rubber Cover, and 2-Piece Body.			
<b>X</b>	Leemco Swivel Angle Valve Swivel Angle Valve with square operating nut and ductile iron swivel service tee. Size equal to pipe size.			
X	Materous Gate Valve			

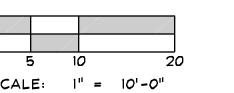
2" square operating nut. Size equal to pipe size

Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches

beyond edges of paving or construction.

Pipe Sleeve: PVC Class 200



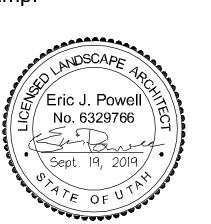


Are Sitio Design, Inc Landscape Architecture & Architectural Site Design

1058 East 2100 South Salt Lake City, Utah 84106 office 801 487 4923 fax 801 466 3046 www.arcsitiodesign.com



stamp.



project

SOUTHKINGE PARK
RESTROOM REPLACEMENT

date

September 19, 2019

revisions

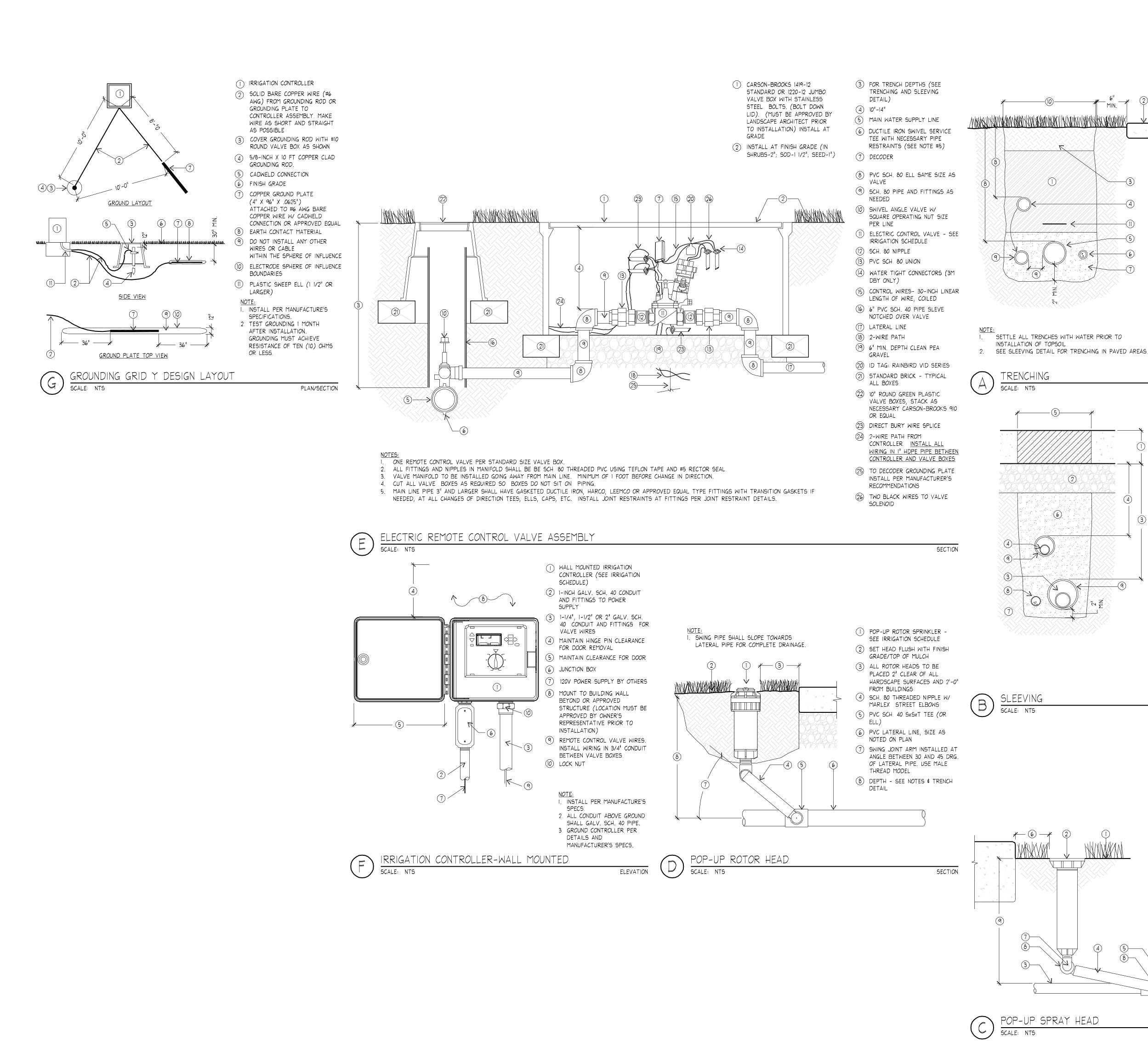
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IRRIGATION PLANS

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stamp:

() CLEAN BACKFILL- SEE SPECS.

ADJACENT HARD SURFACE

GREATER THAN I" DIAMETER

NON-PRESSURE LATERAL LINE

6 INSTALL ELECTRICAL WIRING IN 1"

HDPE CONDUIT, SEE SPECS.

7) MORTAR SAND BEDDING 2" BELOW AND TO EITHER SIDE OF

PIPE AND ELECTRICAL WIRING

MAIN LINE: 24" COVER

LATERAL LINE: 12 - 14"
COVER FOR SMALL POP-UP

HEADS AND 12" - 16" FOR

LARGER ROTOR HEADS

9 WHERE LATERAL AND MAIN LINES ARE PLACED IN THE SAME TRENCH, MAKE TRENCH WIDE

ENOUGH TO MIN. 12" HORIZONTAL SEPARATION BETWEEN MAIN LINE

AND LATERAL LINE PIPING AS WELL AS CONTROL WIRING (NO

VERTICAL SPACING ALLOWED)

(10) IF TRENCHING THROUGH EXISTING

SECTION

TURF, REPLACE SOD PER

(II) TRACER WIRE, SEE SPECS.

SPECÍFICATIONS

1) HARDSCAPE PAVING

SUB-BASE

IN DIA,

(9) SLEEVING:

(2) COMPACTED AGGREGATE

3) MAIN LINE PIPE: 24" COVER

(4) LATERAL LINE PIPE: 12 - 14"

COVER FOR SMALL POP-UP

HEADS AND 12" - 16" FOR

LARGER ROTOR HEADS

(5) SAWCUT & PATCH HARDSCAPE

(6) COMPACTED BACKFILL FREE

PAVING WIDTH AS REQUIRED

(7) SUB-GRADE COMPACTED TO 95%

(8) CONTROL WIRES 6" TO EITHER SIDE OR 6" UNDER MAINLINE.

- SLEEVES SHALL BE 2"

- SLEEVES 3-1/2" AND

- SLEEVES 4" AND

SEWER PIPE

SETTLE ALL TRENCHES WITH

2. WHEN MULTIPLE PIPES OCCUR IN

ONE TRENCH, MAINTAIN 6"

3. EXTEND ALL SLEEVING 12" MIN.

BEYOND EDGE OF PAVING.

1) FINISH GRADE/TOP OF MULCH

4) SWING ASSEMBLY: FLEX TUBE 24" MAX. LENGTH. SLOPE TOWARDS LATERAL PIPE FOR

IRRIGATION SCHEDULE

COMPLETE DRAINAGE.

5 PVC SCH 40 TEE OR ELL

6 ALL SPRAY HEADS TO BE
PLACED 3" CLEAR OF ALL

FROM BUILDINGS

(7) 1/2" MARLEX 90° ELL

(9) DEPTH - SEE NOTES AND

(8) 1/2" BARB 90°

TRENCH DETAIL

3) PVC LATERAL PIPE

POP-UP SPRAY SPRINKLER: SEE

HARDSCAPE SURFACES AND 2'-0"

OF TOPSOIL.

FOR EACH.

WATER PRIOR TO INSTALLATION

SEPARATION BETWEEN PIPES AND

SECTION

PLACE IN SEPARATE SLEEVES

LARGER THAN PIPE

SMALLER SHALL BE PVC

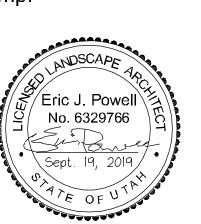
GREATER SHALL BE PVC

FROM ROCKS GREATER THAN I"

(3) TOPSOIL FREE FROM ROCKS

) PRESSURE MAIN LINE

(8) PIPE DEPTHS:



project

SOUTHRIDGE PARK
RESTROOM REPLACEMEN
5051 SOUTH 4015 WEST, TAYLORSVILLE, UT 84118

date

September 19, 2019

17042

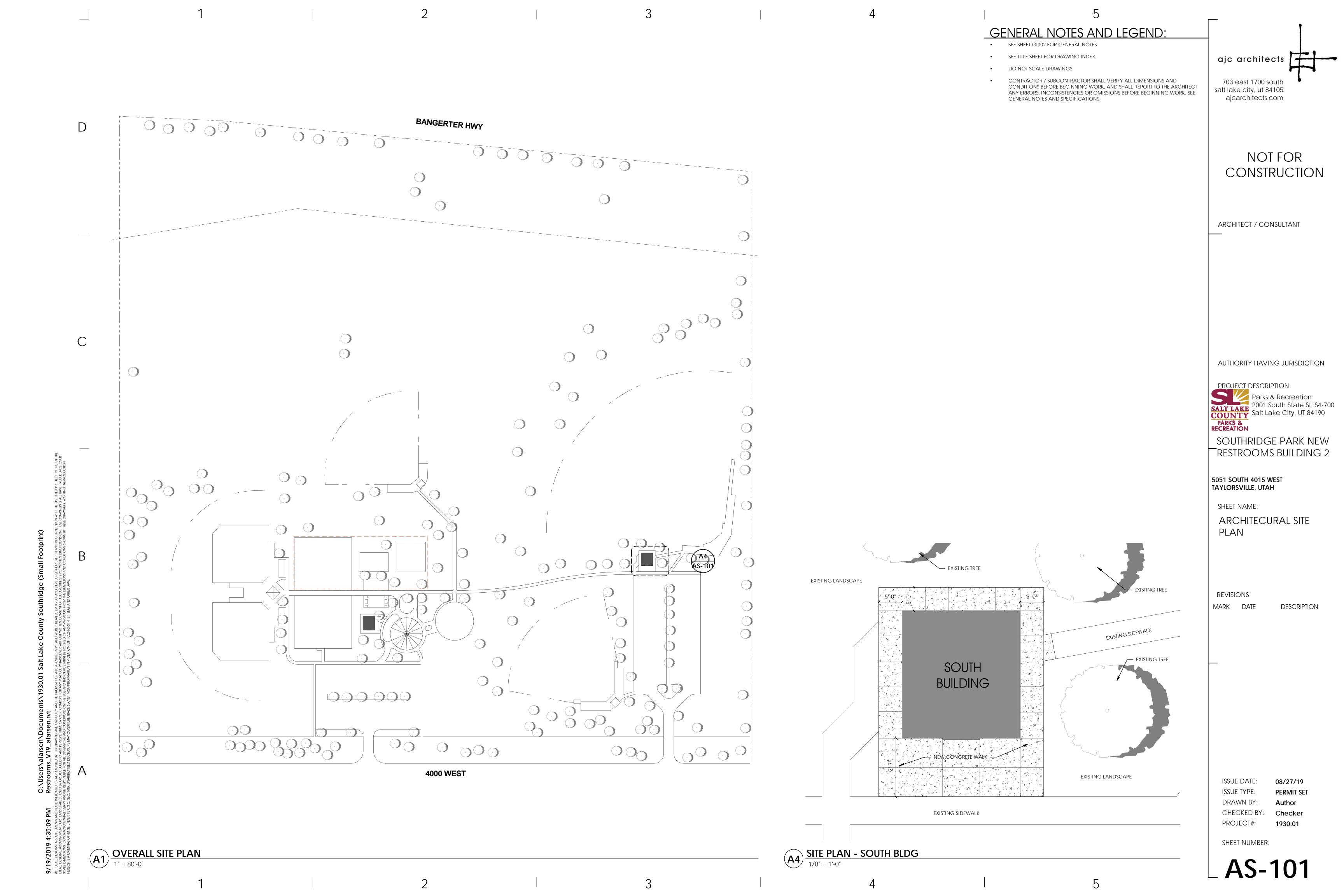
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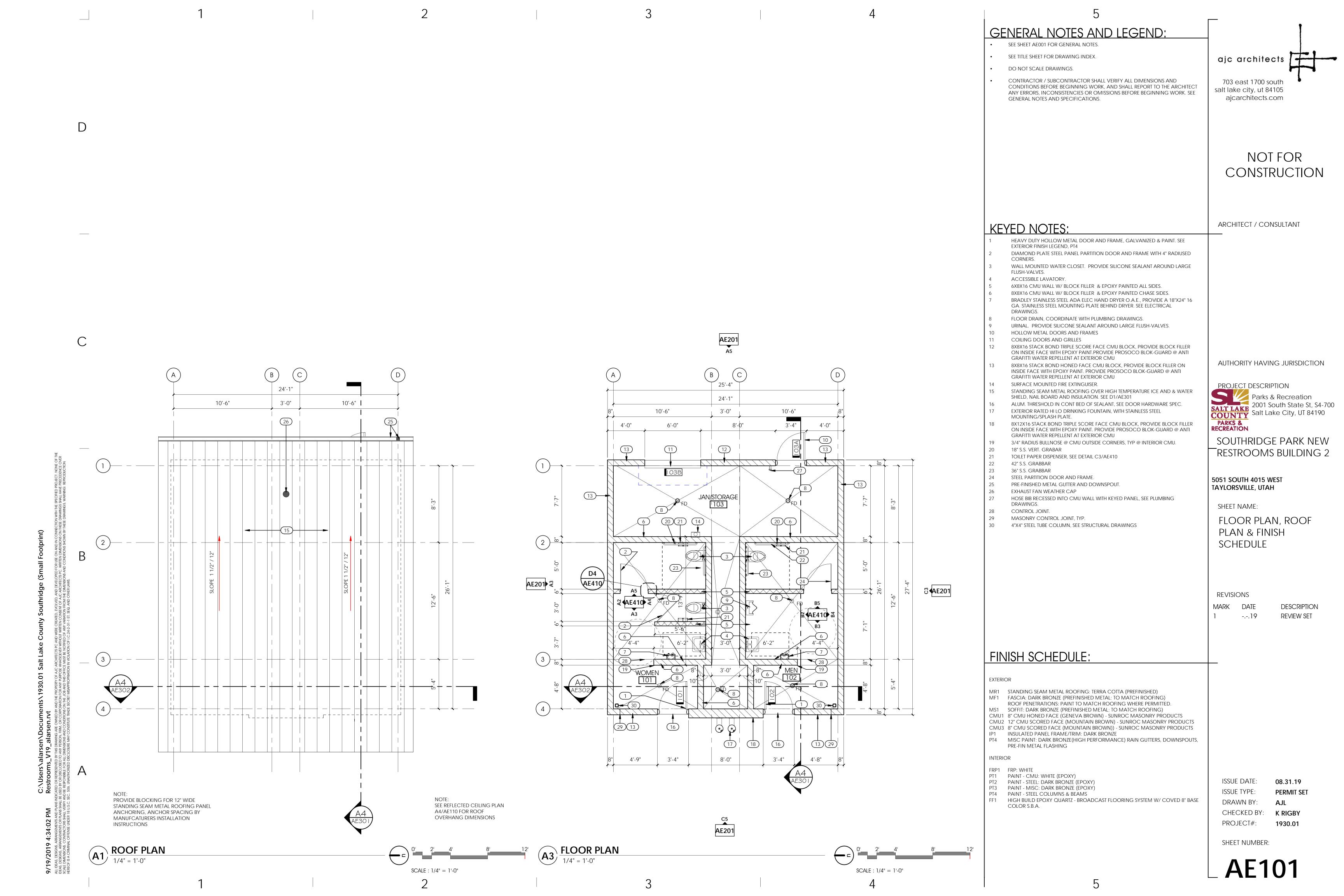
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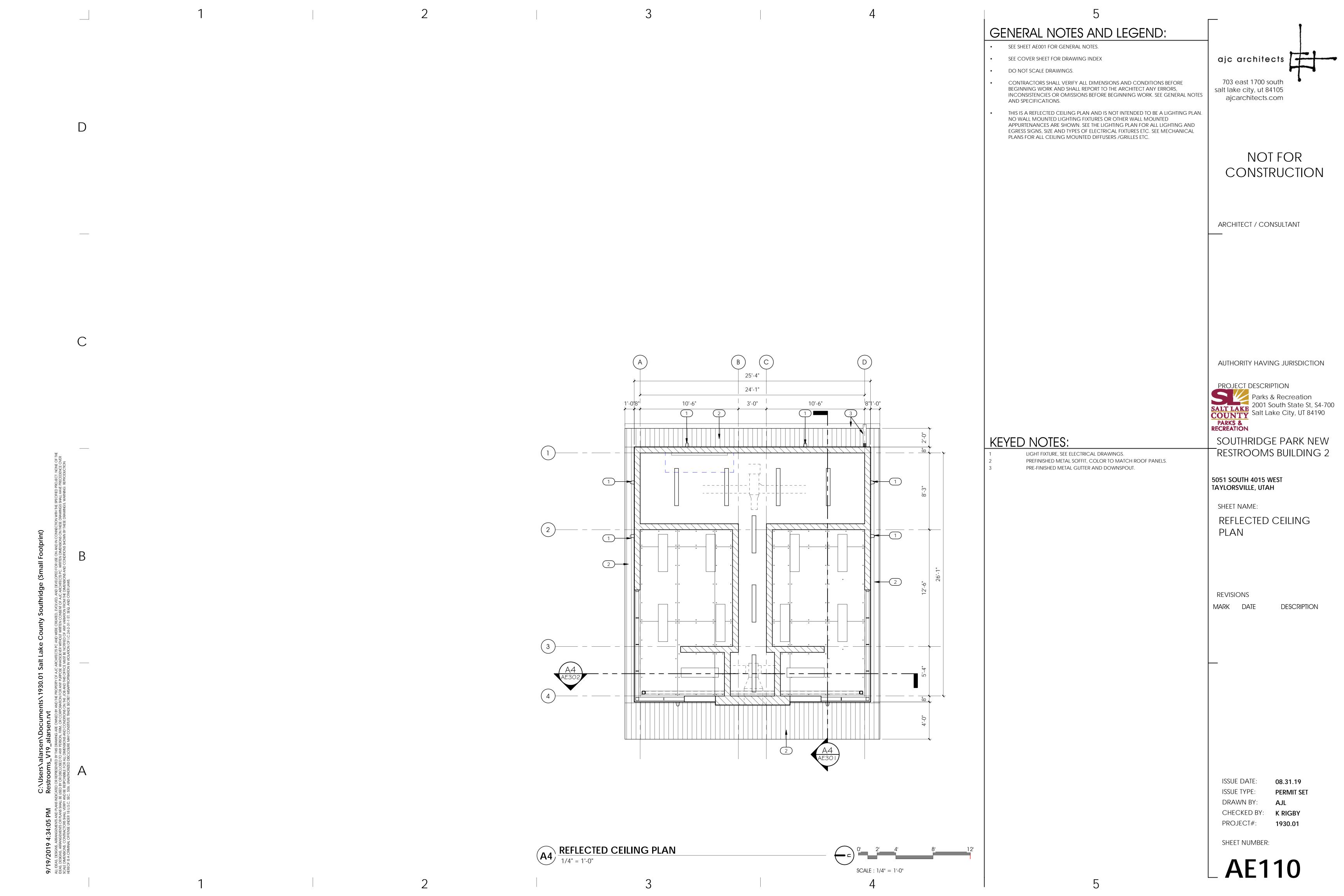
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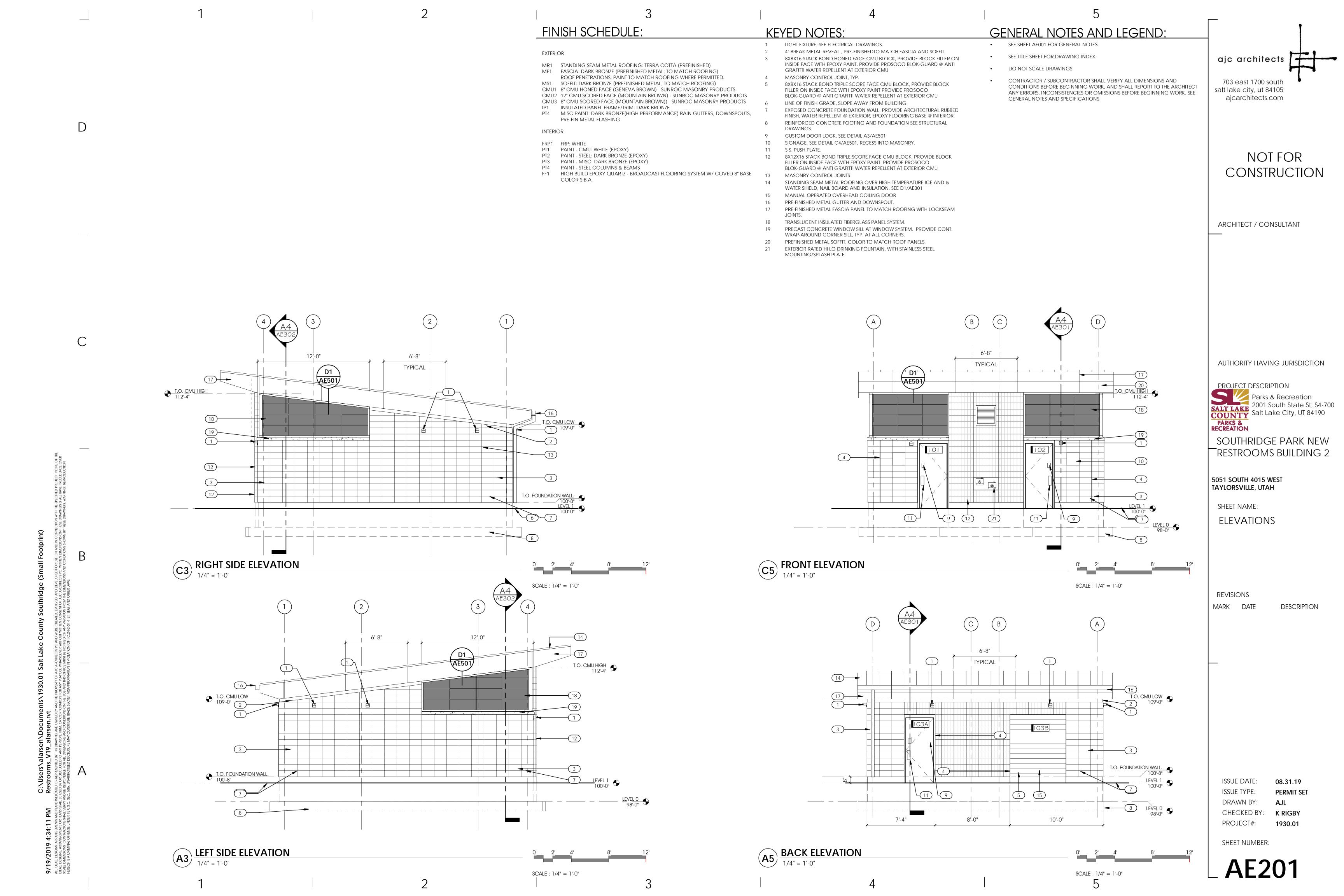
**DETAILS** 

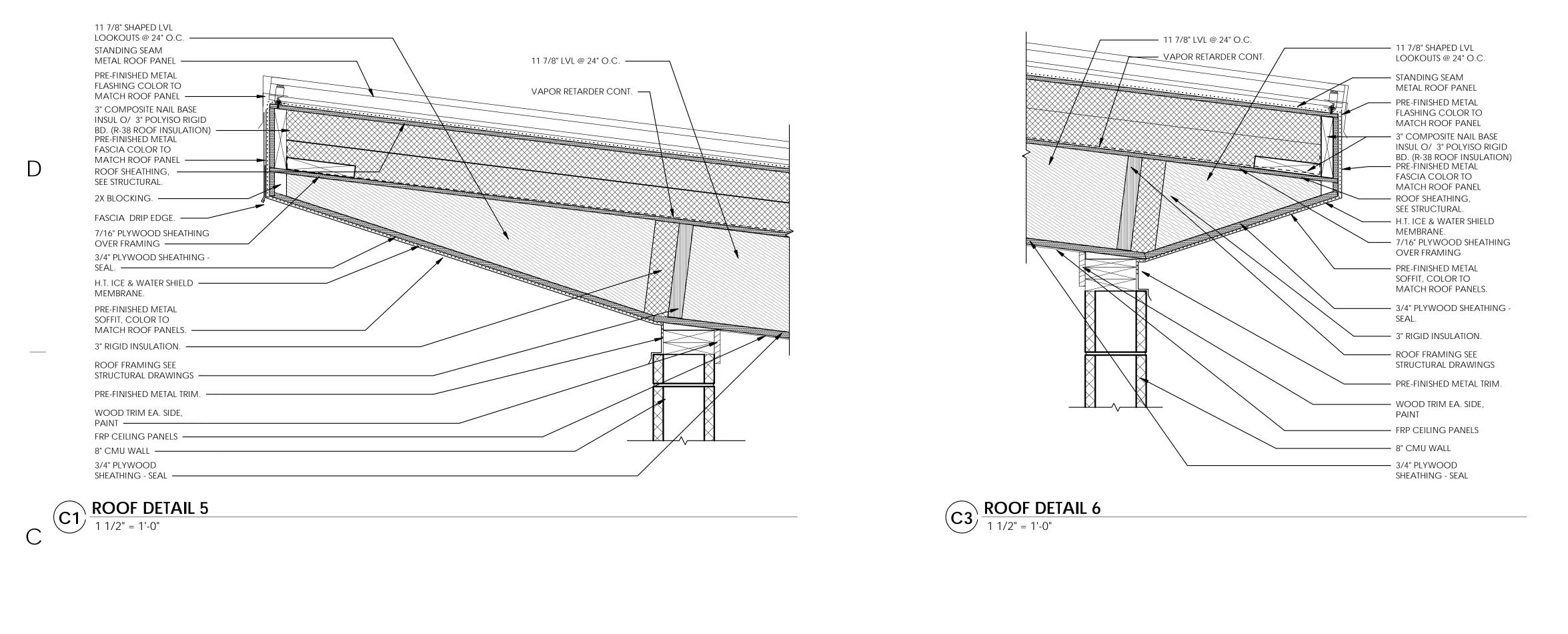
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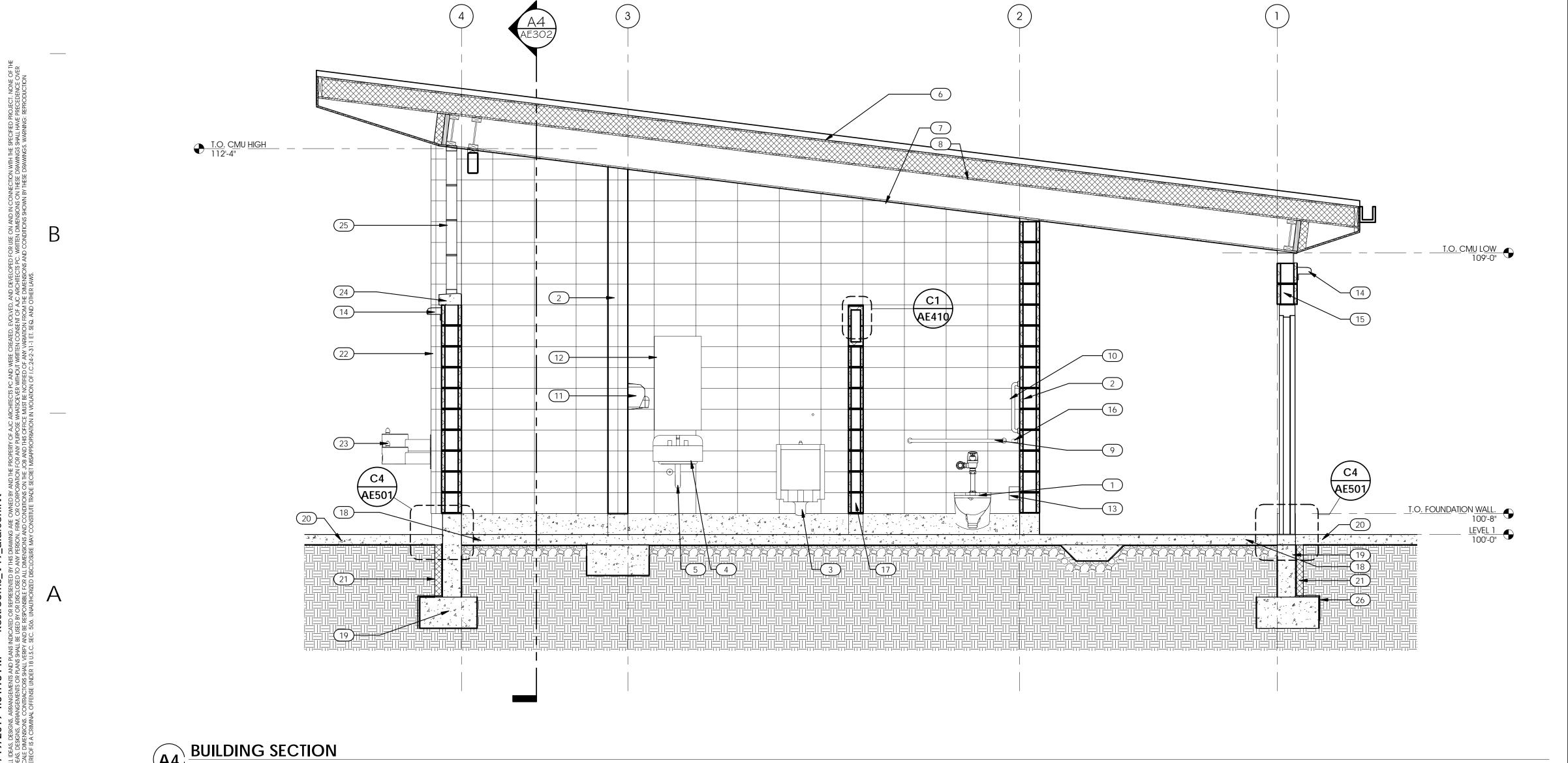












# GENERAL NOTES AND LEGEND:

SEE SHEET AE001 FOR GENERAL NOTES.

• SEE TITLE SHEET FOR DRAWING INDEX.

DO NOT SCALE DRAWINGS.

GENERAL NOTES AND SPECIFICATIONS.

CONTRACTOR / SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK, AND SHALL REPORT TO THE ARCHITECT ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE



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NOT FOR CONSTRUCTION

ARCHITECT / CONSULTANT

# **KEYED NOTES:**

- WALL MOUNTED WATER CLOSET. PROVIDE SILICONE SEALANT AROUND LARGE FLUSH-VALVES.
- 8X8X16 CMU WALL W/ BLOCK FILLER & EPOXY PAINTED CHASE SIDES. URINAL. PROVIDE SILICONE SEALANT AROUND LARGE FLUSH-VALVES.
  - ACCESSIBLE LAVATORY.
- ADA INSULATED PIPE WRAP STANDING SEAM METAL ROOFING OVER HIGH TEMP, ICE & WATER SHIELD,
- NAIL BOARD & INSULATION. FRP CEILING OVER 3/4" PLYWOOD, SEALED.
- R-30 ROOF INSULATION
- 36" S.S. GRABBAR
- 18" S.S. VERT. GRABAR
  - BRADLEY STAINLESS STEEL ADA ELEC HAND DRYER O.A.E., PROVIDE A 18"X24" 16 GA. STAINLESS STEEL MOUNTING PLATE BEHIND DRYER. SEE ELECTRICAL
- DRAWINGS.
- VANDAL RESISTANT S.S. MIRROR 24" X 36"
- TOILET PAPER DISPENSER, SEE DETAIL C3/AE410
- LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS.
- 8X8X16 STACK BOND HONED FACE CMU BLOCK, PROVIDE BLOCK FILLER ON INSIDE FACE WITH EPOXY PAINT. PROVIDE PROSOCO BLOK-GUARD @ ANTI GRAFITTI WATER REPELLENT AT EXTERIOR CMU
- 42" S.S. GRABBAR
- 6X8X16 CMU WALL W/ BLOCK FILLER & EPOXY PAINTED ALL SIDES. CONCRETE FLOOR SLAB OVER FREE DRAINAGE GRAVEL
- REINFORCED CONCRETE FOOTING AND FOUNDATION SEE STRUCTURAL
- DRAWINGS CONCRETE SIDEWALK SLAB, SLOPE AWAY FROM BUILDING 2%
- XPS FOUNDATION INSULATION CONT., W/ DRAINAGE & PROTECTION BD.
- 8X12X16 STACK BOND TRIPLE SCORE FACE CMU BLOCK, PROVIDE BLOCK FILLER ON INSIDE FACE WITH EPOXY PAINT. PROVIDE PROSOCO BLOK-GUARD
- @ ANTI GRAFITTI WATER REPELLENT AT EXTERIOR CMU FXTFRIOR RATED HI LO DRINKING FOUNTAIN, WITH STAINLESS STEEL
- MOUNTING/SPLASH PLATE.
- PRECAST CONCRETE WINDOW SILL AT WINDOW SYSTEM. PROVIDE CONT. WRAP-AROUND CORNER SILL, TYP. AT ALL CORNERS.
- TRANSLUCENT INSULATED FIBERGLASS PANEL SYSTEM.
- DAMPROOFING CONT BELOW GRADE.

AUTHORITY HAVING JURISDICTION



RECREATION SOUTHRIDGE PARK NEW RESTROOMS BUILDING 2

5051 SOUTH 4015 WEST

SHEET NAME:

TAYLORSVILLE, UTAH

PARKS &

**BUILDING SECTIONS** 

REVISIONS

MARK DATE

DESCRIPTION **REVIEW SET** -.-.19

# FINISH SCHEDULE:

# **EXTERIOR**

- MR1 STANDING SEAM METAL ROOFING: TERRA COTTA (PREFINISHED)
- MF1 FASCIA: DARK BRONZE (PREFINISHED METAL; TO MATCH ROOFING)
- ROOF PENETRATIONS: PAINT TO MATCH ROOFING WHERE PERMITTED. MS1 SOFFIT: DARK BRONZE (PREFINISHED METAL; TO MATCH ROOFING)
- CMU1 8" CMU HONED FACE (GENEVA BROWN) SUNROC MASONRY PRODUCTS CMU2 12" CMU SCORED FACE (MOUNTAIN BROWN) - SUNROC MASONRY PRODUCTS CMU3 8" CMU SCORED FACE (MOUNTAIN BROWN)) - SUNROC MASONRY PRODUCTS
- IP1 INSULATED PANEL FRAME/TRIM: DARK BRONZE PT4 MISC PAINT: DARK BRONZE(HIGH PERFORMANCE) RAIN GUTTERS, DOWNSPOUTS,
- PRE-FIN METAL FLASHING

# INTERIOR

- PT1 PAINT CMU: WHITE (EPOXY)
- PT2 PAINT STEEL: DARK BRONZE (EPOXY) PT3 PAINT - MISC: DARK BRONZE (EPOXY)
- PT4 PAINT STEEL COLUMNS & BEAMS
- FF1 HIGH BUILD EPOXY QUARTZ BROADCAST FLOORING SYSTEM W/ COVED 8" BASE COLOR S.B.A.

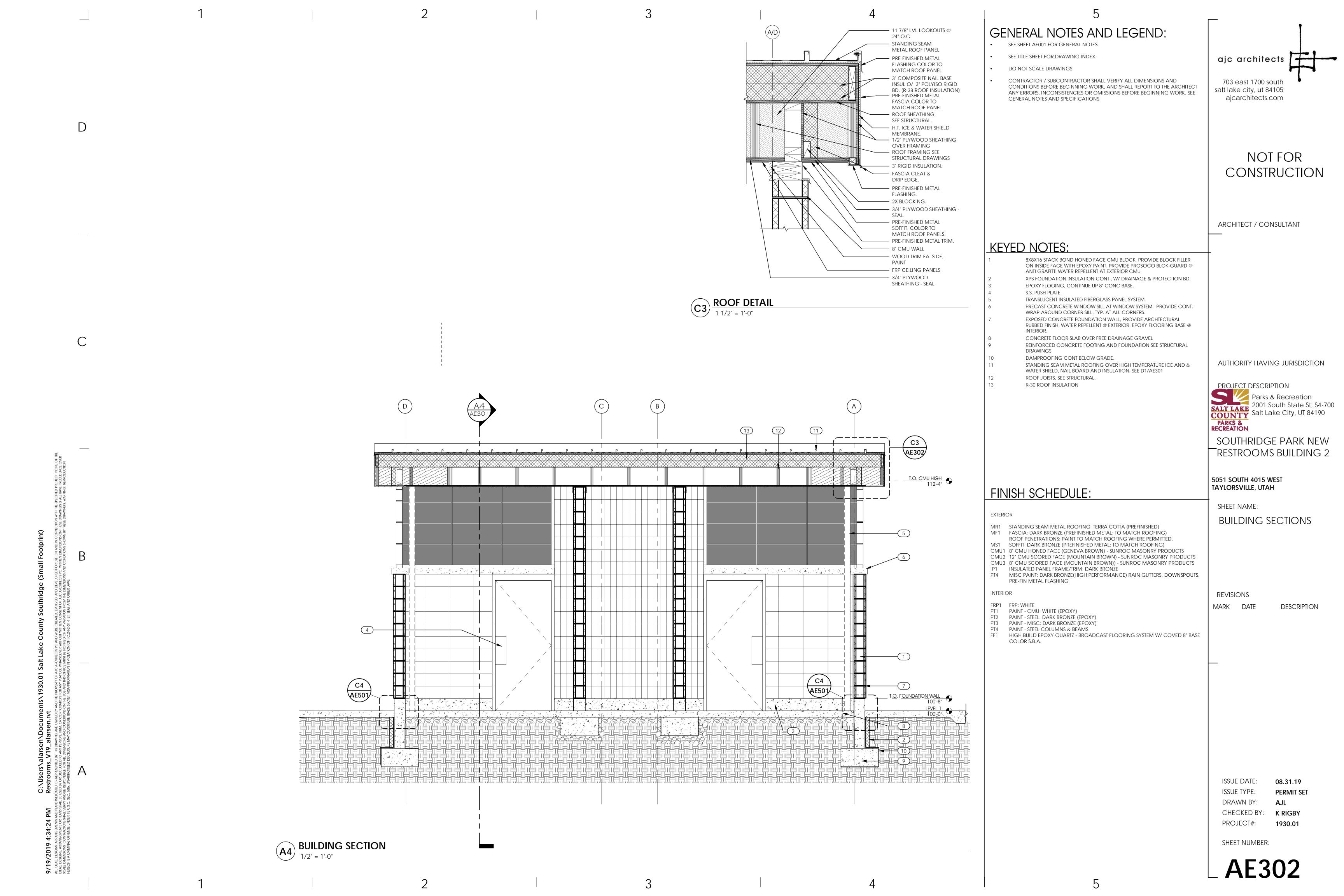
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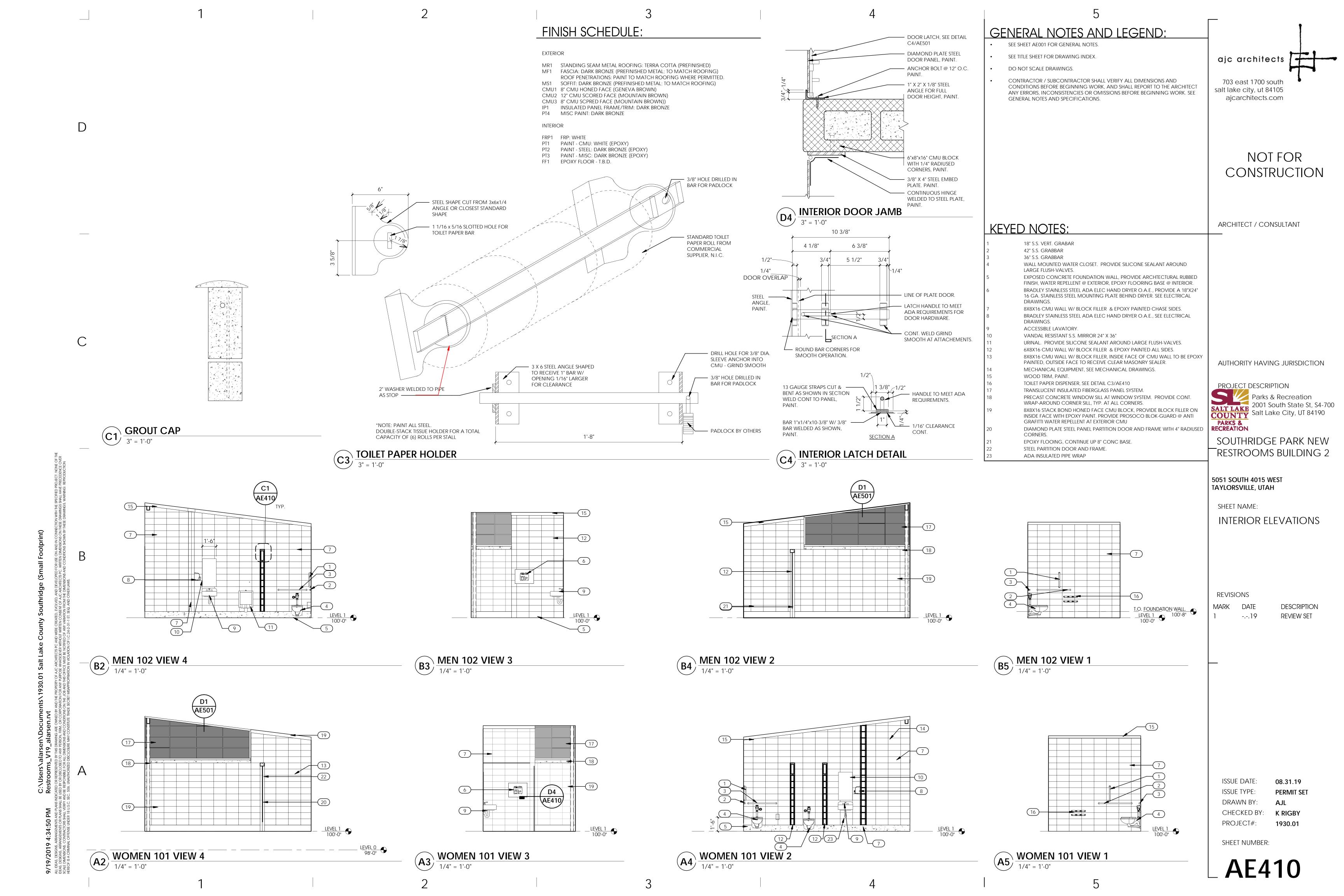
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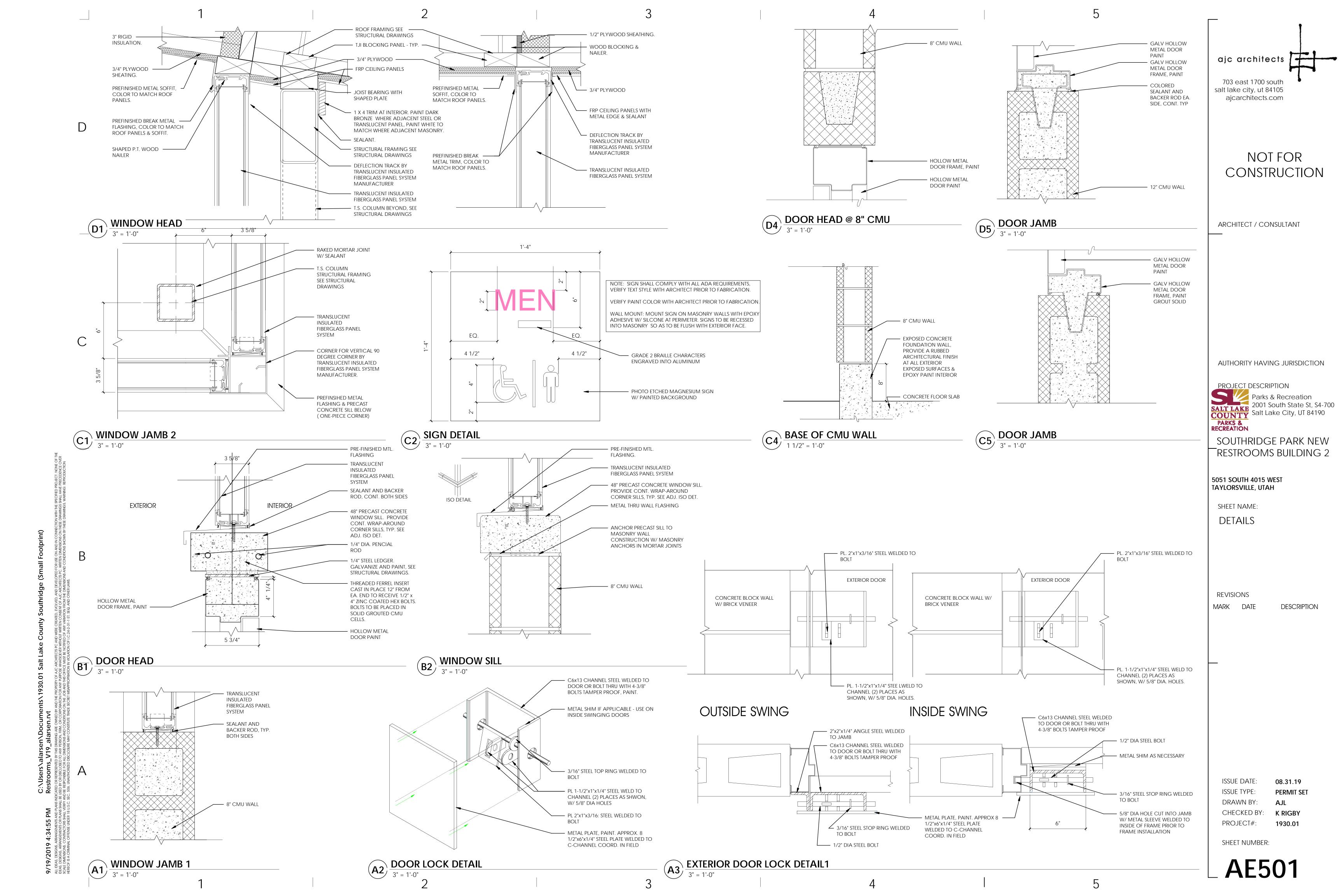
SHEET NUMBER:

PROJECT#:

\_ **AE30**1







ACCESS PANEL

CENTERLINE ELEVATION

GENERAL CONTRACTOR

MECHANICAL CONTRACTOR

CONTROLS CONTRACTOR

ELECTRICAL CONTRACTOR

NOT IN CONTRACT

VITRIFIED CLAY PIPE

NORMALLY CLOSED

**NORMALLY OPEN** 

NOT TO SCALE

COMMON

FIRE PROTECTION CONTRACTOR

C EL.

GC

MC

EC

FPC

VCP

NC

NO

PLUMBING LEGEND								
MEANING	SYMBOL OR ABBREVIATION	MEANING	SYMBOL OR ABBREVIATION					
HOT WATER LINE	HW	WALL CLEANOUT	WCO					
COLD WATER LINE	CW	CLEANOUT	СО					
HOT WATER RECIRCULATING LINE	HWREC	CLEANOUT TO GRADE	COTG					
VENT LINE	V	FLOOR CLEANOUT	FCO					
WASTE LINE	SS	BALL VALVE	Ф					
VENT THRU ROOF	VTR	UNION	——————————————————————————————————————					
SANITARY SEWER	SS	REGULATOR	R					

# **PLUMBING GENERAL NOTES**

**G-1** - ALL PLUMBING SHALL BE INSTALLED AND CONFORM TO THE 2018 EDITION OF THE INTERNATIONAL PLUMBING CODE (IPC) WITH UTAH ANNOTATIONS AND LOCAL AUTHORITY REQUIREMENTS.

G-2 - ALL PIPING MATERIALS SHALL MEET ALL REQUIREMENTS OF IPC AND LOCAL AUTHORITY. PLASTIC PIPING SHALL BE ALLOWED ONLY WHERE ALLOWED BY CODE. PLASTIC PIPING SHALL NOT BE ROUTED THROUGH RETURN AIR PLENUMS OR OTHER AREAS PROHIBITED BY THE IMC, IPC, OR NFPA CODES OR BY LOCAL AUTHORITY.

G-3 - GAS PIPING INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH GAS COMPANY REGULATIONS, NFPA CODE REQUIREMENTS, AND LOCAL AUTHORITY.

G-4 - ALL MATERIALS SHALL BE NEW AND SHALL BE DOMESTIC MADE UNLESS SPECIFICALLY APPROVED OTHERWISE IN WRITING BY ARCHITECT OR OWNER.

G-5 - PROVIDE VACUUM BREAKERS AND BACK FLOW PREVENTERS WHERE REQUIRED BY CODE OR WHERE THERE MAY BE ANY POSSIBLE CHANCE FOR CROSS CONTAMINATION. PREVENTERS SHALL BE INSTALLED IN ACCORDANCE WITH UTAH CODE.

G-6 - ALL PLUMBING INFORMATION IS NOT LIMITED TO THE PLUMBING DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMATION ON ALL OTHER CONSTRUCTION DOCUMENTS INCLUDING SPECIFICATIONS, ARCHITECTURAL DRAWING, STRUCTURAL DRAWINGS, MECHANICAL DRAWINGS, AND ELECTRICAL DRAWINGS.

G-7 - THE WORKING DRAWINGS ARE DIAGRAMMATIC. BECAUSE OF THE SMALL SCALE OF THE DRAWING, THEY DO NOT SHOW EVERY OFFSET, BEND OR ELBOW NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. ALL PIPING SHALL BE CHECKED AND COORDINATED WITH THE SPECIFICATIONS, ARCHITECTURAL. STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS.

G-8 - COORDINATE ALL PIPING AND PLUMBING EQUIPMENT WITH ALL OTHER TRADES AND/OR CONTRACTORS PRIOR TO INSTALLATION.

G-9 - ANY AND ALL ALTERATIONS TO THE SYSTEM SHOWN SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR AND ARCHITECT/ENGINEER SHALL BE NOTIFIED IN WRITING PRIOR TO CHANGES.

G-10 - GAS LINE FITTINGS SHALL BE STANDARD WELD FITTINGS WITH TEPERED REDUCERS. DO NOT USE VALVES, UNIONS, OR AUTO CONTROLS IN GAS LINES ROUTED IN INACCESSIBLE CONCEALED SPACES.

**G-11** - ALL WATER SYSTEMS SHALL MEET THE REQUIREMENTS OF ANSI/NSF STANDARD 61 SECTION 9 (1998), CONCERNING METAL CONTAMINATS IN THE WATER SYSTEM.

**G-12** - WATER PIPING SHALL NOT BE ROUTED IN OUTSIDE WALLS OR ON EXTERIOR SIDE OF BUILDING INSULATION ENVELOPE.

G-13 - WATER HAMMER ARRESTORS SHALL BE INSTALLED IN ALL WATER LINES WITH QUICK OPEN OR QUICK CLOSE VALVES.

WATER HAMMER ARRESTOR SCHEDULE: TYPE A 1-11 FIXTURE UNITS TYPE B 12-32 FIXTURE UNITS

TYPE C 33-60 FIXTURE UNITS TYPE D 61-113 FIXTURE UNITS

**GENERAL NOTES** 

**G-1** - MECHANICAL INFORMATION IS NOT LIMITED TO THE MECHANICAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMATION OF THE EXISTING BUILDING AND SITE CONDITIONS, EXISTING PIPING, EXISTING ELECTRICAL, AND EXISTING SUPPORTS.

A - EACH DRAWING SHEET AND THE SPECIFICATIONS HAVE BEEN PREPARED TO SUPPLEMENT EACH OTHER AND THEY SHALL BE INTERPRETED AS AN INTEGRAL UNIT WITH ITEMS SHOWN AND NOTED ON ONE AND NOT THE OTHER BEING FURNISHED AND INSTALLED AS THOUGH SHOWN AND CALLED OUT IN ALL PLACES. ITEMS IN SPECIFICATIONS OR DRAWINGS LISTED WHICH ARE DIFFERING IN EFFICIENCY OR QUALITY SHALL BE HELD TO THE GREATEST OF: EFFICIENCY, QUALITY OR GOVERNING CODE.

B - THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE INSTALLATION OF THE SYSTEMS ACCORDING TO THE TRUE INTENT AND MEANING OF THE CONTRACT DOCUMENTS

C - THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT WITH PROPER SERVICE ACCESS AND CLEARANCES ACCORDING TO MANUFACTURERS RECOMMENDATIONS. THE CONTRACTOR SHALL REVIEW SUPPLIERS BID PACKAGES FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS, SCHEDULES, AND DESIGN INTENT (ALL EQUIPMENT AND METHODS). THE CONTRACTOR SHALL REMOVE AND REINSTALL CORRECTLY AT HIS OWN EXPENSE ANY EQUIPMENT NOT IN COMPLIANCE.

D - THE CONTRACTOR SHALL CONSULT MANUFACTURERS INSTALLATION INSTRUCTIONS FOR SIZES, METHODS, ACCESSORIES, AND CLEARANCES IN SPACE AVAILABLE PRIOR TO BIDDING PROJECT.

E - ANYTHING NOT CLEAR OR IN CONFLICT WILL BE EXPLAINED BY MAKING APPLICATION TO THE ENGINEER IN WRITING.

G-2 - ANY AND ALL ALTERATIONS TO THE SYSTEM SHOWN SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO CHANGES FOR APPROVAL. CONTRACTOR SHALL NOT START ANY CHANGES UNTIL NOTIFIED IN WRITING. IF CHANGES ARE MADE PRIOR TO APPROVAL CONTRACTOR SHALL TAKE ALL RESPONSIBILITY FOR THE CHANGES MADE AND ALL COSTS RELATING TO FAILURE OR REPLACEMENT OF ALTERATIONS.

**G-3** - CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LOCATIONS.

**G-4** - THE WORKING DRAWINGS ARE DIAGRAMMATIC. THEY DO NOT SHOW EVERY OFFSET, BEND, OR ELBOW NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. ALL LOCATIONS FOR MECHANICAL EQUIPMENT SHALL BE FIELD VERIFIED AND COORDINATED WITH ALL DRAWINGS. THE CONTRACTOR SHALL PROVIDE OR COORDINATE WITH THE GENERAL CONTRACTOR PROVISIONS FOR BLOCKOUTS OR CORE DRILLS THROUGH STRUCTURE.

**G-5** - THE INSTRUCTION TO "PROVIDE" ALSO INCLUDES INSTALLATION.

**G-6** - MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL SMOKE AND FIRE DAMPERS AS REQUIRED BY LOCAL CODES AND AUTHORITIES.

G-7 - SHEET METAL DUCT SIZES SHOWN ON DRAWINGS ARE FREE AREA DIMENSIONS.

**G-8** - PROVIDE AND INSTALL BALANCING DAMPERS IN ALL SUPPLY AND EXHAUST AIR BRANCH DUCTS. BALANCE TO CFM SHOWN ON PLAN.

G-9 - SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF DIFFUSERS AND GRILLES.

G-10 - PROVIDE TURNING VANES IN ALL ELBOWS OF RECTANGULAR

G-11 - THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY IN HANDLING AND DISPOSING OF REFRIGERANTS, OILS, ETC. ALL SUCH MATERIALS SHALL BE HANDLED, DISPOSED, AND USED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS.

**G-12** - THE MECHANICAL CONTRACTOR SHALL VERIFY MOTOR VOLTAGES WITH THE ELECTRICAL DRAWING BEFORE ORDERING MOTORIZED EQUIPMENT AND CONTROLS.

**G-13** - C.F.M. LISTED IS ACTUAL AIR.

**G-14** - SUPPLIERS SHALL REVIEW ALL DRAWINGS AND THE SPECIFICATIONS PRIOR TO SUBMITTING PRICES TO THE CONTRACTOR. ALL QUESTIONS AND DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEERS ATTENTION PRIOR TO BIDDING.

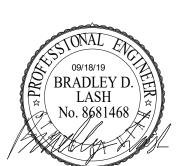
**G-15** - CONTRACTOR SHALL THOROUGHLY REVIEW AND SIGN SUBMITTALS FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS PRIOR TO ENGINEERS REVIEW. SUPPLIERS SHALL HIGHLIGHT OR MARK ALL INFORMATION REQUIRED TO SHOW COMPLIANCE TO THE SPECIFICATIONS. ALL REQUESTED EXCEPTIONS TO THE SPECIFICATIONS, OR SCHEDULES SHALL BE CLEARLY NOTED AND EXPLAINED. SUBMITTAL REVIEW AND ACCEPTANCE IS FOR DESIGN CONCEPT ONLY, AND DOES NOT AT ANY TIME RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO MEET SPECIFICATIONS, CAPACITIES, OR DESIGN INTENT.

**G-16** - ALL MECHANICAL SHALL BE INSTALLED AND CONFORM TO THE 2018 EDITION OF THE IMC AND IPC WITH UTAH ANNOTATIONS AND

**G-17** - THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE DRAINING DOWN AND RE-FILLING OF ALL SYSTEMS NECESSARY TO COMPLETE THE WORK OUTLINED BY THIS PROJECT. THIS INCLUDES PROVIDING THE REQUIRED CHEMICAL TREATMENT WHEN RE-FILLING THE SYSTEM.

**G-18** - ALL PIPING, MATERIALS, ETC. SHALL BE NEW AND DOMESTIC

ajc architects 703 east 1700 south





ENGINEERING INC. PROFESSIONAL MECHANICAL ENGINEERING 8619 Sandy Parkway Suite 101 801-466-4021, fax 466-8536

AUTHORITY HAVING JURISDICTION

PROJECT DESCRIPTION

SOUTHRIDGE PARK NEW RESTROOMS BUILDING 2

5051 SOUTH 4015 WEST TAYLORSVILLE, UTAH

SHEET NAME:

MECHANICAL & PLUMBING LEGEND & GENERAL NOTES

REVISIONS

MARK DATE DESCRIPTION

ISSUE DATE: 09/18/2019 ISSUE TYPE: 100% CD DRAWN BY:

CHECKED BY:

PROJECT#: 1930.01

SHEET NUMBER:

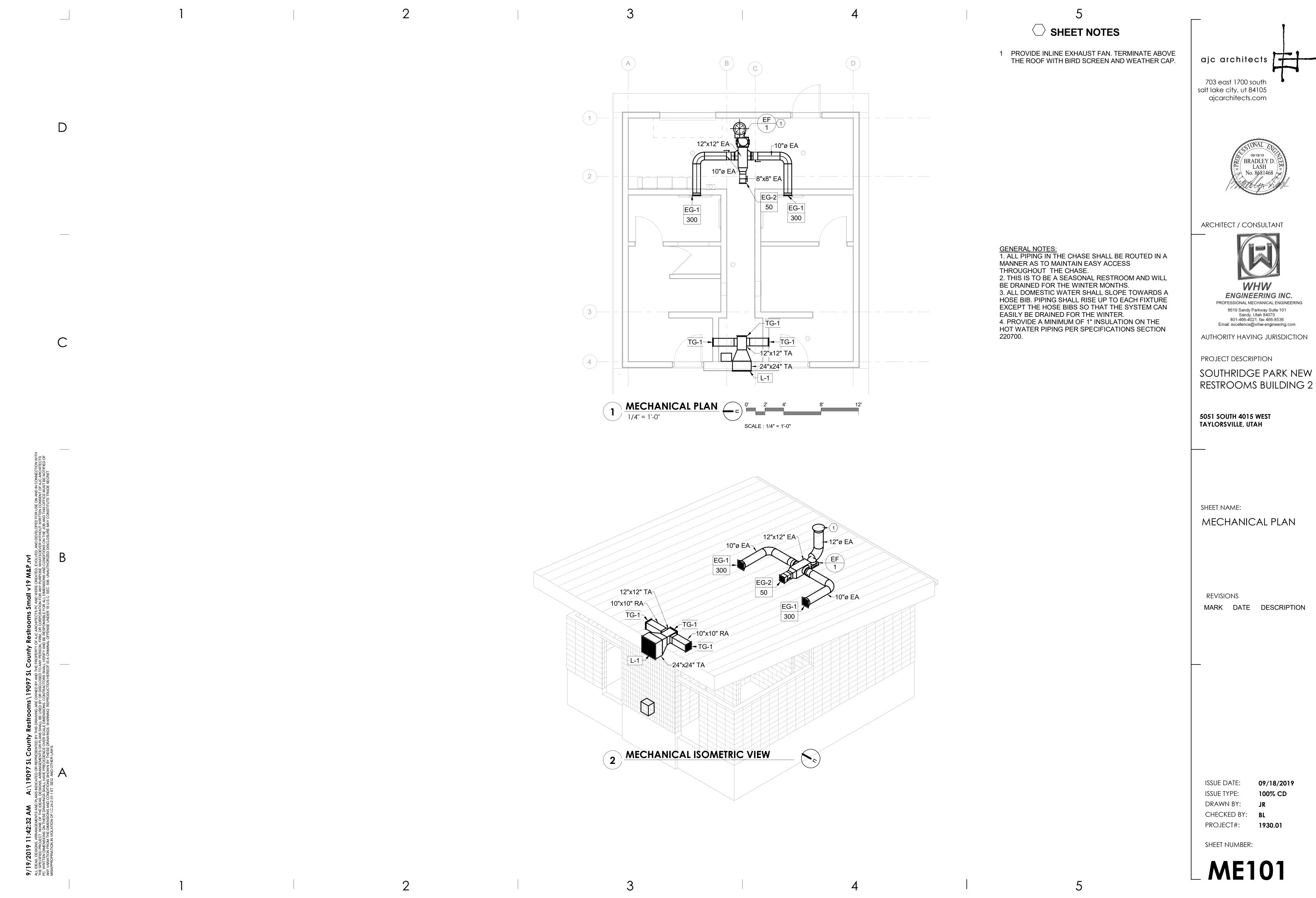
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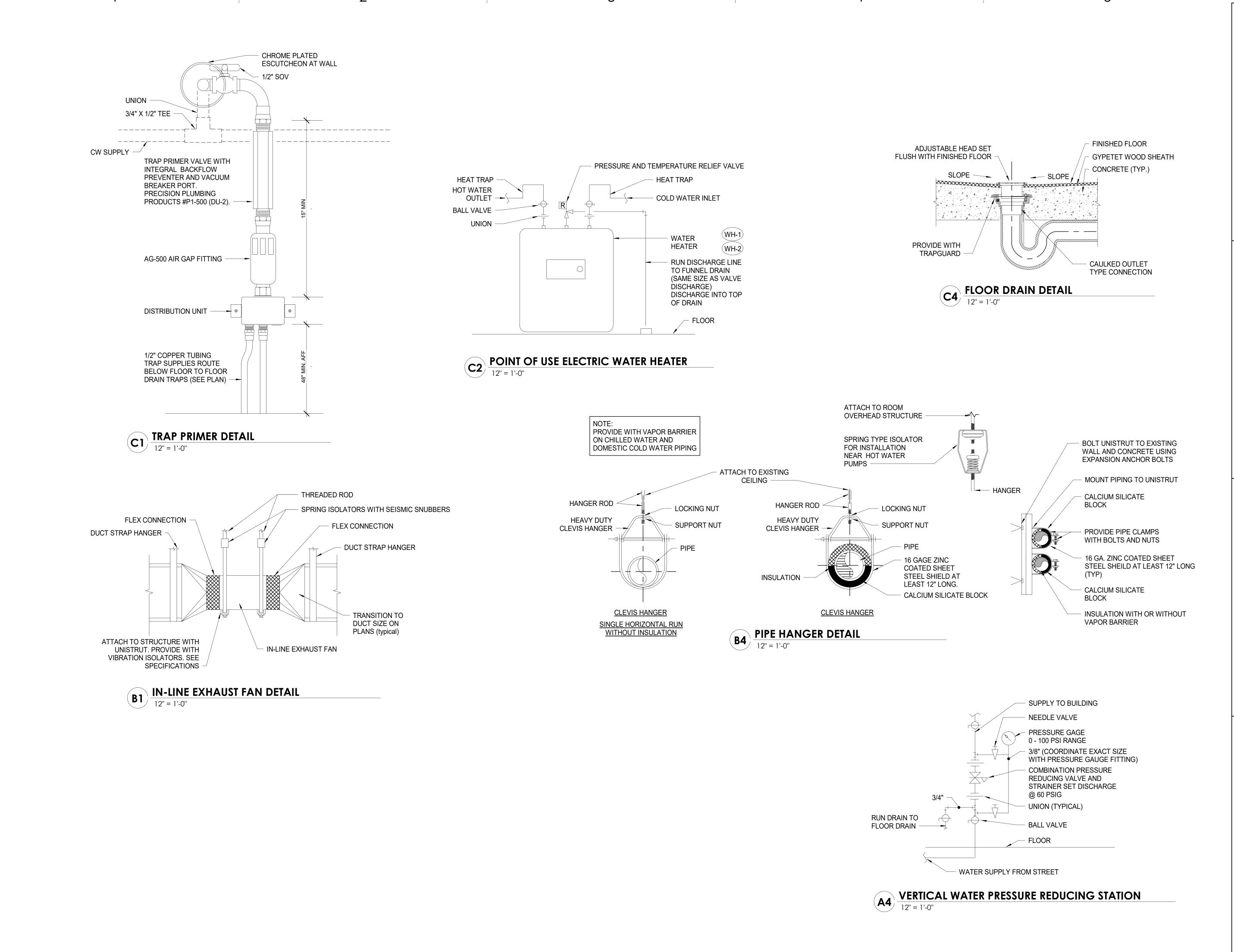
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Email: excellence@whw-engineering.com





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703 east 1700 south salt lake city, ut 84105 ajcarchitects.com



ARCHITECT / CONSULTANT



Sandy, Utah 84070 801-466-4021, fax 466-8536 Email: excellence@whw-engineering.com

PROJECT DESCRIPTION

SOUTHRIDGE PARK NEW RESTROOMS BUILDING 2

5051 SOUTH 4015 WEST TAYLORSVILLE, UTAH

SHEET NAME:

MECHANICAL & PLUMBING DETAILS

REVISIONS

MARK DATE DESCRIPTION

ISSUE DATE: 09/18/2019
ISSUE TYPE: 100% CD
DRAWN BY: JR

CHECKED BY: BL
PROJECT#: 1930.01

SHEET NUMBER:

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						PLUMBIN	NG FIXTURE SCHEDULE	
			INDIVI	DUAL LINE	SIZES			
MARK	FIXTURE	TRAP	WASTE	VENT	COLD WATER	HOT WATER	REMARKS	SCHEDULE NOTES
DF-1	DRINKING FOUNTAIN	1 1/2"	1 1/2"	1 1/2"	1/2"	1 1/2"	VANDAL RESISTANT BI LEVEL DRINKING FOUNTAIN. MDF MODEL 10485 WM OR APPROVED EQUAL. TRAP SHALL BE INSIDE OF CHASE AND NOT INTEGRAL TO FIXTURE. PROVIDE REMOTE CHILLER	1,2
FD-1	FLOOR DRAIN	2"	2"	1 1/2"	0"	0"	PROVIDE VANDAL RESISTANT FLOOR DRAIN WITH TRAP PRIMER. PLACE TRAP PRIMER VALVE IN THE CHASE THEN DISTRIBUTE TO FLOOR DRAINS.	2
HB-1	HOSE BIBB	0"	0"	0"	1/2"	0"	PROVIDE KEYED HOSE BIBB WITH VACUUM BREAKER. REMOVE KEY AND PLACE IN PLUMBING CHASE. WOODFORD 24P OR APPROVED EQUAL.	2
HB-2	HOSE BIBB	0"	0"	0"	0"	1/2"	PROVIDE KEYED VANDAL RESISTANT HOSE BIBB WITH VACUUM BREAKER. REMOVE KEY AND PLACE IN PLUMBING CHASE. LABEL THE HOSE BIBB INDICATING IT IS CONNECTED TO THE HOT WATER. WOODFORD 24P OR APPROVED EQUAL.	2
L-1	LAVATORY	1 1/2"	1 1/2"	1 1/2"	1/2"	1/2"	VANDAL RESISTANT WALL MOUNTED LAVATORY. PROVIDE WITH THERMOSTATIC AND PRESSURE MIXING VALVE. 304 STAINLESS STEEL WITH 1 GPM AERATOR. METCRAFT 5680 OR APPROVED EQUAL WITH BRADLEY 90-75 METERING PUSH BUTTON FAUCET OR EQUAL.	2
U-1	URINAL	3"	3"	2"	3/4"	0"	VANDAL RESISTANT WALL MOUNTED FLUSH VALVE. PROVIDE CONCEALED FLUSH VALVE WITH 3" BUTTON OPERATION. METCRAFT 7610 OR APPROVED EQUAL.	2
WC-1	WATER CLOSET	INT	3"	2"	1 1/2"	0"	VANDAL RESISTANT WALL MOUNTED FLUSH VALVE. 304 STAINLESS STEEL WITH 1.6 GPF CONCEALED FLUSH-O-METER. METCRAFT 4610 OR EQUAL.	2
WC-2	WATER CLOSET	INT	3"	2"	1 1/2"	0"	ADA COMPLIANT. VANDAL RESISTANT WALL MOUNTED FLUSH VALVE. 304 STAINLESS STEEL WITH 1.6 GPF CONCEALED FLUSH-O-METER. METCRAFT 4110HC OR EQUAL.	2

1. INSTALL DRINKING FOUNTAIN PER ADA REQUIREMENTS AND MANUFACTURERS RECOMMENDATIONS. PROVIDE ELKAY MODEL ER21Y, 2.0 GPH, 115V/60, 3A, REMOTE CHILLER.

2. SEE SPECIFICATIONS FOR OTHER APPROVED MANUFACTURERS.

					EXHAUS	T FAN SCHE	DULE					
TAG	TAG MOTOR											
TYPE	#	COUNT	MANUFACTURER & MODEL	SERVES	CFM	E.S.P.	MAX SONES	V/PH/HZ	HP (W)	RPM	OPER. WT.	SCH. NOTES
EF	1	1	COOK GN-720	RESTROOMS	650	0.3	3.3	120/1/60	(222)	1325	40	1,2

EXHAUST FAN SHALL RUN CONTINUOUSLY. DURING OCCUPIED HOURS.
 PROVIDE INLINE EXHAUST FAN. TERMINATE ABOVE THE ROOF WITH BIRD SCREEN AND WEATHER CAP.

	DIFFUSER AND GRILLE SCHEDULE														
MARK	COUNT	MAX FLOW	FACE SIZE	NECK SIZE	CEILING TYPE	BLOW	MAX NC	MANUF & MODEL	SCHEDULE NOTES						
EG-1	2	300 CFM	10X10	10X10	N/A	N/A	25	PRICE 90	1,2						
EG-2	1	50 CFM	8x8	8x8	N/A	N/A	25	PRICE 90	1,2						
L-1	1	650 CFM	24x24	24x24	N/A	N/A	25	RUSKIN ELF811	1,2,3						
TG-1	3	300 CFM	10X10	10X10	N/A	N/A	25	PRICE 90	1,2						

1. SEE SPECIFICATIONS FOR OTHER APPROVED MANUFACTURERS.

2. FINISH SHALL BE SPECIFIED BY ARCHITECT.
3. PROVIDE BACKDRAFT DAMPER IN LOUVER.

POINT OF USE WATER HEATER SCHEDULE												
MARK	kW	GPH	V/Ph/Hz	MANUF. & MODEL	SCHEDULE NOTES							
EWH-1	7.5 kW	1.5 @ 34F	240/1/60	EEMAX EX75								
EWH-2	7.5 kW	1.5 @ 34F	240/1/60	EEMAX EX75								



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PROJECT DESCRIPTION

SOUTHRIDGE PARK NEW RESTROOMS BUILDING 2

5051 SOUTH 4015 WEST TAYLORSVILLE, UTAH

SHEET NAME:

MECHANICAL & PLUMBING SCHEDULES

REVISIONS

MARK DATE DESCRIPTION

09/18/2019 ISSUE TYPE: 100% CD DRAWN BY: CHECKED BY: BL

PROJECT#: **1930.01** 

SHEET NUMBER:

# **SHEET NOTES**

- PROVIDE PRV STATION RACKED ON WALL IN THIS APPROXIMATE LOCATION. SEE DETAIL A4/ME501. PROVIDE HOSE BIB AT THE LOW END CONNECTION TO DRAIN THE SYSTEM. PROVIDE SHUT OFF VALVE CLOSE TO THE FLOOR WHERE WATER ENTERS THE BUILDING AND A HOSE BIB JUST DOWN STREAM.
- PROVIDE ELECTRIC POINT OF USE WATER HEATER IN THIS APPROXIMATE LOCATION.
- 3 FIELD VERIFY WITH CIVIL CONTRACTOR FOR CONTINUATION OF DOMESTIC WATER LINE IN THIS APPROXIMATE LOCATION. PROVIDE STOP AND WASTE OUTSIDE HARD SURFACE.
- COORDINATE WITH ELECTRICAL FOR PANEL
- LOCATIONS. DO NOT RUN WATER ABOVE PANELS.
- TRAP FOR DRINKING FOUNTAIN SHALL BE INSIDE THE CHASE AND NOT INTEGRAL TO THE FIXTURE. 7 PROVIDE RECESSED KEYED HOSE BIB BELOW
- LAVATORY. REMOVE KEY AND PLACE IN CHASE STORAGE AREA. LABEL FOR COLD WATER. THIS IS FOR DRAINING THE SYSTEM FOR WINTER. WATER PIPING SHALL BE RUN LOW ALONG THE SIDE
- OF THE CHASE TO MAINTAIN ACCESS INSIDE CHASE. SANITARY SEWER SHALL RUN BELOW GRADE. SLOPE ALL DOMESTIC WATER TO HOSE BIBS TO DRAIN THE SYSTEM FOR WINTER. PROVIDE KEYED HOSE BIB BELOW LAVATORY.
- REMOVE KEY AND PLACE IN CHASE STORAGE AREA. LABEL FOR HOT WATER. THIS IS FOR DRAINING THE SYSTEM FOR WINTER. 10 PROVIDE HOSE BIB AT THE BASE OF THE DROP TO
- THE WATER CLOSE TO DRAIN THE SYSTEM FOR
- 11 CONTRACTOR SHALL RUN SANITARY SEWER 5 FEET OUTSIDE OF BUILDING AND CONNECT TO EXISTING UTILITIES. FIELD VERIFY WITH CIVIL CONTRACTOR FOR CONTINUATION OF SANITARY SEWER LINE IN THIS APPROXIMATE LOCATION.
- 12 REMOTE CHILLER. SEE DRINKING FOUNTAIN SCHEDULE FOR MAKE AND MODEL. CONNECT TO DRINKING FOUNTAIN PER MANUFACTURERS RECOMMENDATIONS.

**GENERAL NOTES:** 1. ALL PIPING IN THE CHASE SHALL BE **ROUTED IN A MANNER AS TO MAINTAIN EASY** ACCESS THROUGHOUT THE CHASE. 2. THIS IS TO BE A SEASONAL RESTROOM AND WILL BE DRAINED FOR THE WINTER 3. ALL DOMESTIC WATER SHALL SLOPE

4. PROVIDE A MINIMUM OF 1" INSULATION ON

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PROJECT DESCRIPTION

SOUTHRIDGE PARK NEW RESTROOMS BUILDING 2

5051 SOUTH 4015 WEST TAYLORSVILLE, UTAH

SHEET NAME:

PLUMBING PLAN

REVISIONS

MARK DATE DESCRIPTION

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PE101

# **GENERAL NOTES**

2. VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH IN.

- 1. CONSULT ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES.
- CONSULT ALL APPLICABLE CONTRACT DRAWINGS AND SHOP DRAWINGS TO INSURE NEC CODE CLEARANCES REQUIRED AROUND ALL ELECTRICAL EQUIPMENT. 3. CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENTS, ETC) OF ALL EQUIPMENT FURNISHED UNDER ALL DIVISIONS, INCLUDING ALL EXISTING EQUIPMENT TO BE RE-USED. REVIEW ALL SHOP DRAWINGS AND EXISTING
- EQUIPMENT BEFORE BEGINNING ROUGH-IN. 4. SEE SECTION 265100 (16510) OF THE SPECIFICATION FOR REQUIRED COORDINATION MEETINGS WITH MECHANICAL AND CEILING CONTRACTORS.
- 5. SEE APPLICABLE SHOP DRAWINGS FOR ROUGH IN LOCATION OF ALL EQUIPMENT, WIRING DEVICES, ETC. WHERE APPLICABLE MOUNT ALL WIRING DEVICES ABOVE BACK SPLASH EXCEPT THOSE SERVING UNDER COUNTER EQUIPMENT.
- 6. SEE SPECIFICATION FOR ENERGY SAVING LAMP AND BALLAST REQUIREMENTS.
- 7. FINISHES OF ALL LIGHT FIXTURES SHALL BE AS SELECTED BY ARCHITECT.
- 8. THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE MECHANICAL CONTRACTOR SUCH THAT NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO THE OPERATION OF THE ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THRU ELECTRICAL ROOMS OR SPACES, OR ABOVE OR BELOW ELECTRICAL EQUIPMENT IN OTHER AREAS.
- 9. ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY COLUMNS IN BRICK WALLS OR IN GROUTED CELLS ADJACENT TO OPENINGS. COORDINATE LOCATION OF BOXES WITH MASONRY CONTRACTOR.
- 10. ALL PENETRATIONS OF FIRE RATED FLOORS, WALLS, AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL TO MAINTAIN FIRE RATING OF SURFACE PENETRATED.
- 11. CIRCUITS EXTENDING OVER 70' FOR 120 VOLT AND 115' FOR 277 VOLT 20 AMP CIRCUITS SHALL BE RUN WITH CONDUCTORS PER TABLE BELOW.

20 AMP MINIMUM BRANCH CIRCUIT CONDUCTOR SIZING										
MAXIMUM LENGTH	BRANCH CIF	RCUIT VOLTAGE								
CONDUCTOR LENGTH (FT)	120 VOLT	277 VOLT								
<70	MIN. #12 AWG	MIN. #12 AWG								
70 - 115	MIN. #10 AWG	MIN. #12 AWG								
115 - 170	MIN. #8 AWG	MIN. #10 AWG								
170 - 270	MIN. #6 AWG	MIN. #8 AWG								
271 - 380	NOTE B	MIN. #8 AWG								
>380	NOTE B	NOTE B								

- A. THESE ARE BASED ON MAXIMUM LENGTH OF CIRCUIT.
- B. PERFORM VOLTAGE DROP CALCULATIONS AND PROVIDE CONDUCTOR SIZE TO KEEP BRANCH CIRCUIT VOLTAGE DROP LESS THAN 3% WITH A 15 AMP LOAD.
- C. CONTRACTOR SHALL ENSURE THAT THE INSTALLATION OF EACH BRANCH CIRCUIT STAYS WITHIN 3% VOLTAGE DROP FOR A 15 AMP LOAD. IF NECESSARY, CONTRACTOR SHALL INCREASE WIRE AND CONDUIT SIZE TO MEET THE STANDARD AT
- 12. CONTRACTOR SHALL VERIFY FURNITURE LAYOUT PRIOR TO ANY FLOORBOX OR POKE-THRU INSTALLATION. COORDINATE EXACT LOCATION OF FLOOR BOX OR POKE-THRU WITH OWNER AND FURNITURE PROVIDER PRIOR TO ROUGH-IN.

ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION
#	NUMBER	МН	MANHOLE
AC	ALTERNATING CURRENT	MIC	MICROPHONE
A.F.F.	ABOVE FINISH FLOOR	MIN	MINIMUM
AIC	AMPS INTERRUPTING CAPACITY	MTG	MOUNTING
AM	AMPS METER	MTR	MOTOR
AMP	AMPERE	N/A	NOT APPLICABLE
ANN	ANNUNCIATOR	NC	NORMALLY CLOSED
ATS	AUTOMATIC TRANSFER SWITCH	NEC	NATIONAL ELECTRICAL CODE
AUX	AUXILIARY	NEMA	NATIONAL ELECT. MANUFAC. ASSO
AWG	AMERICAN WIRE GAUGE	NFC	NATIONAL FIRE CODE
ВС	BARE COPPER	NFPA	NATIONAL FIRE PROTECTION ASSO
BFG	BELOW FINISH GRADE	N.I.C.	NOT IN CONTRACT
С	CONDUIT	NO	NORMALLY OPENED
CAB	CABINET	NTS	NOT TO SCALE
CATB	COMMUNITY ANTENNA TELEVISION	OS & Y	OUTSIDE SCREW & YOKE
CATV	CABLE TELEVISION	PB	PUSHBUTTON
CKT	CIRCUIT	PF	POWER FACTOR
CLG	CEILING	PFR	PHASE FAILURE RELAY
CNTR	CONTRACTOR	PNL	PANEL
C.O.	CONDUIT ONLY	PT	POTENTIAL TRANSFORMER
CRT	COMPUTER TERMINAL	PVC	POLYVINYL CHLORIDE CONDUIT
CT	CURRENT TRANSFORMER	(R)	RELOCATE
CU	COPPER	RECEP	RECEPTACLE
C/W	COMPLETE WITH	REQ	REQUIREMENT
DB	DECIBEL	RLA	RATED LOAD AMPS
DC	DIRECT CURRENT	RMS	ROOT MEAN SQUARE
DWG	DRAWING	SE	SERVICE ENTRANCE
(E)	EXISTING	SPEC	SPECIFICATIONS
EC	EMPTY CONDUIT	SPKR	SPEAKER
EG	EMERGENCY GENERATOR	SS	SELECTOR SWITCH
EMT	ELECTRICAL METALLIC TUBING	SW	SWITCH
EX	EXPLOSION PROOF	SWBD	SWITCHBOARD
FACP	FIRE ALARM CONTROL PANEL	SWGR	SWITCHGEAR
FC	FOOT CANDLE	TTB	TELEPHONE TERMINAL BOARD
FT	FOOT	TTC	TELEPHONE TERMINAL CABINET
GFI	GROUND FAULT INTERRUPTER	TV	TELEVISION
GND	GROUND	TYP	TYPICAL
GRC	GALVANIZED RIGID CONDUIT	UG	UNDERGROUND
HP	HORSE POWER	UP	UTAH POWER
HZ	HERTZ	UPS	UNINTERRUPTED POWER SUPPLY
IG	ISOLATED GROUND	V	VOLT (KV-KILOVOLT)
IMC	INTERMEDIATE METALLIC CONDUIT	VA/R	VOLT-AMPS/REACTIVE
IN	INCH	VM W	VOLT METER
J-BOX	JUNCTION BOX		WATTS
KV	KILOVOLT	W/	WITH
KVA	KILOVOLT AMPERES	WH	WATTHOUT METER
KVAR	KILOVARS	W/O	WITHOUT
KW	KILOWATT	WP	WEATHERPROOF
LRA	LOCKED ROTOR AMPS	XFMR	TRANSFORMER
LTG	LIGHTING	XFMR SW	TRANSFER SWITCH
MNF	MANUFACTURER	XP	EXPLOSION PROOF
MATV	MASTER ANTENNA TELEVISION	1P	SINGLE-PHASE
MAX	MAXIMUM	2P	TWO-POLE

ABBREVIATIONS INDEX

- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE SENSOR MANUFACTURER FOR PROPER PLACEMENT AND ADJUSTMENT OF OCCUPANCY SENSORS.
- UPON COMPLETION OF THE INSTALLATION, THE SYSTEM SHALL BE COMPLETELY COMMISSIONED BY THE MANUFACTURER'S FACTORY AUTHORIZED TECHNICIAN WHO WILL
- THE LOCATION AND QUANTITIES OF SENSORS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE ONLY THE ROOMS WHICH ARE TO BE PROVIDED WITH SENSORS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ADDITIONAL SENSORS IF

	SHEET INDEX
E001 E002	SYMBOLS, SCHEDULES AND NOTES SCHEDULES AND NOTES
E201	ELECTRICAL LIGHTING PLAN
E301	ELECTRICAL POWER AND SYSTEMS PLAN
E401	ONE-LINE DIAGRAM
E501	ELECTRICAL DIAGRAMS

SYMBOL

DESCRIPTION

**CLOCK OUTLET** 

NOTES

HEIGHT

1. SEE FIXTURE SCHEDULE FOR TYPE, MOUNTING AND WATTAGE.

2. HEIGHT MEASURED TO CENTER LINE OF THE BOX FROM THE FINISH FLOOR.

4. SUBSCRIPT KEYS SWITCH TO FIXTURES CONTROLLED.

SYMBOL DESCRIPTION

5. NEMA TYPE 'ND' NON-FUSED UNLESS NOTED 'F' (FUSED). USE 'HD' 480 V. 6. HEIGHT MEASURED TO TOP OF THE BOX FROM FINISH FLOOR.

STANDARD MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON PLANS

ONE CIRCUIT, HOME RUN TO PANEL

3. REFER TO DRAWINGS FOR DIRECTIONAL ARROWS.

7. PROVIDE H.O.A. AND S.S. PUSHBUTTONS AS REQUIRED. 8. DOUBLE ARROWS DENOTE A DOUBLE FACE UNIT. 9. COORDINATE WITH MILLWORK SHOP DRAWINGS AND ELEVATIONS FOR HEIGHT. 10. SUBSCRIPT DENOTES NEMA CONFIGURATION. 11. HEIGHT MEASURED TO BOTTOM OF THE BOX FROM FINISH FLOOR. 12. COORDINATE WITH DOOR HARDWARE SUPPLIER.

		SPEC.		
EE SCHEDULE	FLOOR	SEE DIAGRAM, SPEC.	(2000)	
		9.	Sectional English	\? 
('F' IN FLOOR)	AS NOTED		JOSHUA	
Т	TO SUIT EQUIP.		OAKESON (No. 1707671/2302/	)
	+4'-0"	6.	John Colle	
SCONNECT SWITCH	+5'-0"	5.	TATE OF VILLE	Ś
NEOT OWITOU	±5' 0"	_	7 <b>1</b>	

NOTES

MOUNTING

HEIGHT

+7'-6"

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PROJECT DESCRIPTION

SOUTHRIDGE PARK NEW RESTROOMS BUILDING 2

5051 SOUTH 4015 WEST TAYLORSVILLE, UTAH

SHEET NAME:

SYMBOLS, SCHEDULES AND NOTES

**REVISIONS** 

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SHEET NUMBER:

CENCOD CENEDAL NOTES
SENSOR GENERAL NOTES

THREE-POLE

FOUR-POLE

PHASE

EACH ZONE SHALL HAVE COVERAGE BY OCCUPANCY SENSOR SUCH THAT NO BLIND SPOT

MAIN BUS

MOTOR CONTROL CENTER 1000 CIRCULAR MILLS

- VERIFY ALL ADJUSTMENTS AND SENSOR PLACEMENT TO ENSURE A TROUBLE FREE
- REQUIRED TO PROPERLY COVER THE RESPECTIVE ROOM.

	SHEET INDEX
E001 E002	SYMBOLS, SCHEDULES AND NOTES SCHEDULES AND NOTES
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	2 CIRCUIT, HOME RUN TO PANEL			FB	FLOOR BOX - SEE SCHEDULE	FLOOR	SEE DIAGRAM, SPEC.
	3 CIRCUIT, HOME RUN TO PANEL			<u> </u>	POKE THRU - SEE SCHEDULE	FLOOR	SEE DIAGRAM, SPEC.
	CONDUIT RUN CONCEALED IN WALL OR CEILING			F	FLIP-TOP BOX		SPEC. 9.
	CONDUIT RUN CONCEALED IN FLOOR OR GROUND			0	JUNCTION BOX ('F' IN FLOOR)	AS NOTED	
	CONDUIT UP			<i>\( \sqrt{\sq}}\sqrt{\sq}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}</i>	MOTOR OUTLET	TO SUIT EQUIP.	
	CONDUIT DOWN				PUSHBUTTON	EQUIP. +4'-0"	6.
_		CAP				_	
<u> </u>	CONDUIT STUB LOCATION	CONDUIT			NON-FUSED DISCONNECT SWITCH	+5'-0"	5.
$\rightarrow$	CONDUIT/CIRCUIT CONTINUATION			타	FUSED DISCONNECT SWITCH	+5'-0"	5.
	CABLE TRAY	AS NOTED		<b>\$</b> <sup>™</sup>	MANUAL STARTER THERMAL OVERLOAD SWITCH WITH PILOT LIGHT	+4'-0"	2.
	CEILING LIGHT FIXTURE	CEILING	1.		MAGNETIC STARTER	+5'-0"	7.
	WALL LIGHT FIXTURE	AS NOTED	1.		MAGNETIC STARTER / DISCONNECT COMBINATION	+5'-0"	
)	RECESSED DOWNLIGHT FIXTURE	CEILING	1.	VFD	VARIABLE FREQUENCY DRIVE	+6'-6"	
$\rangle$	RECESSED WALLWASH DOWNLIGHT FIXTURE	CEILING	1		PANEL BOARD	TOP AT	
<del>-</del>	LIGHT FIXTURE	AS NOTED	1		MAIN DISTRIBUTION PANEL	+6'-0"	
	EGRESS LIGHT FIXTURE		UNSWITCHED		TELEPHONE TERMINAL BOARD		
	AREA LIGHT POLE AND FIXTURE		SEE DIAGRAM		GROUND BUS BAR		
	FLOOD OR TRACK FIXTURE	AS NOTED		<u> </u>	EQUIPMENT CABINET/RACK		CIRCUIT TO 120
$\otimes \mid$	CEILING/WALL MOUNTED EXIT LIGHT	CEILING/ AS NOTED	1.3.8.		BELL	+7'-6"	
(	SINGLE POLE SWITCH	+4'-0"	6. 4.		CHIME	+7'-6"	
	THREE-WAY SWITCH	+4'-0"	6.	F	FIRE ALARM MANUAL STATION	+4'-0"	6.
	FOUR-WAY SWITCH	+4'-0"	6.	H	FIRE ALARM SIGNAL HORN/STROBE	+8'-0"	6.
	KEY OPERATED SWITCH	+4'-0"					<del></del>
			6.	[H]CLG	CONCEALED FIRE ALARM SIGNAL HORN/STROBE	CEILING	
	SWITCH WITH PILOT LIGHT	+4'-0"	6.	Цн	CONCEALED FIRE ALARM SIGNAL HORN/STROBE WALL	+8'-0"	6.
	VARIABLE INTENSITY SWITCH	+4'-0"	6.	E	FIRE ALARM SIGNAL SPEAKER/STROBE	+8'-0"	6.
М	TIMER SWITCH	+4'-0"	6.	[E]CLG	CONCEALED FIRE ALARM SIGNAL SPEAKER/STROBE	CEILING	
	MOMENTARY CONTACT SWITCH	+4'-0"	6.	ΠE	CONCEALED FIRE ALARM SIGNAL SPEAKER/STROBE WALL	+8'-0"	6.
,	LOW VOLTAGE WALLSTATION (SUBSCRIPT INDICATES CONFIGURATION & CONTROL SEQUENCE)	+4'-0"	6., SEE DIAGRAM SPEC.	S	FIRE ALARM STROBE	+8'-0"	6.
	CEILING/WALL MOUNTED OCCUPANCY SENSOR SUBSCIPT A=ANALOG, D = DIGITAL	CEILING/ +4'-0"	6.	[s]CLG	CONCEALED FIRE ALARM SIGNAL STROBE	CEILING	
	POWER PACK	CEILING	SEE DIAGRAM,	[]s	CONCEALED FIRE ALARM SIGNAL STROBE WALL	+8'-0"	6.
x	DIGITAL ROOM CONTROLLER	CEILING	SPEC. SEE DIAGRAM,	K H	FIRE ALARM SPEAKER ONLY	+8'-0"	6.
X	(SUBSCRIPT INDICATES NUMBER OF RELAYS)	ABOVE	SPEC. SEE DIAGRAM,		FIRE ALARM SIGNAL STROBE WITH	CEILING/	MOUNT AS
	EMERGENCY LIGHTING CONTROL UNIT	CEILING	SPEC.	B	BLUE COLORED LENS (CO VISUAL ALARM)	+8'-0"	PER. MFR. MOUNT AS
	RECEPTACLE SWITCH PACK	CEILING	QEE DIAGRAM	⊚ <sub>∨</sub>	ASPIRATING SMOKE DETECTION SYSTEM	CEILING	PER. MFR.
	AUTOMATIC RELAY PACK	CEILING	SEE DIAGRAM. SPEC.	© <sub>s</sub>	SMOKE DETECTOR	CEILING	
	LOW VOLTAGE TRANSFORMER	<u> </u>		O <sub>sc</sub>	SMOKE/CARBON MONOXIDE DETECTOR	CEILING	
	PHOTO-ELECTRIC CONTROL	AS NOTED	TORK 2000A	© <sub>C</sub>	CARBON MONOXIDE DETECTOR	CEILING	
	DIGITAL DAYLIGHT SENSOR	CEILING	SEE DIAGRAM, SPECIFICATION	⊙ <sub>H</sub>	HEAT DETECTOR	CEILING	
	TIME CLOCK	+5'-0"	2.	⊕ <sub>H</sub> ⊚ <sub>D</sub>	DUCT SMOKE DETECTOR		MTD. IN DUCT
	DUDI EV DECEDTACI E UPPER OUTLET	+16" OR		<del> </del>			2. 114 0001
	SWITCH CONTROLLED	AS NOTED +16" OR	9. 11.		FIRE/SMOKE DAMPER	40.1.5	
	SIMPLEX RECEPTACLE	AS NOTED	9. 11.		DOOR HOLDER	AS NOTED	
U	SIMPLEX RECEPTACLE WITH USB OUTLET	+16" OR AS NOTED	9. 11.	Fs	FLOW SWITCH		
_ T	DUPLEX RECEPTACLE	+16" OR AS NOTED	9. 11.	T <sub>S</sub>	TAMPER SWITCH		
U	DUPLEX RECEPTACLE WITH USB OUTLET	+16" OR AS NOTED	9. 11.	W <sub>F</sub>	WATER FLOOD INDICATOR		
	CONTROLLED RECEPTACLE	+16" OR AS NOTED	9. 11.	$\triangle$	O.S. & Y. VALVE		SEE DIAGRAM
<u>,  </u>	DUPLEX RECEPTACLE	AS NUTED	9.	R	FIRE ALARM RELAY OR SECURITY RELAY		
	ELECTRIC WATER COOLER RECEPTACLE		SEE DIAGRAM	CM	FIRE ALARM CONTROL MODULE		
W		+24" OR					
WP	WEATHERPROOF RECEPTACLE	AS NOTED	2. 9.	MM	FIRE ALARM MONITOR MODULE		
G	ISOLATED GROUND RECEPTACLE	+16" OR AS NOTED	2. 9.	TWZ	TWO-WAY COMMUNICATION SYSTEM ANNUNCIATOR PANEL	+4'-0"	6.
_ T	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE	+16" OR AS NOTED	9. 11.	TW	TWO-WAY COMMUNICATION SYSTEM CALL STATION	+4'-0"	6.
	DUPLEX RECEPTACLE EMERGENCY POWER (RED)	+16" OR AS NOTED	9. 11.	• <sub>D</sub>	DURESS PUSHBUTTON	+4'-0"	6.
	FOURPLEX RECEPTACLE	+16" OR AS NOTED	9. 11.	$\bigcirc$ 1	SECURITY SYSTEM DOOR SWITCH	DOOR JAMB	
		+16" OR EAS NOTED	9. 11.	$\bigcirc$ 1 $\bigcirc$ 2	SECURITY SYSTEM OVERHEAD DOOR SWITCH	CEILING	MOUNT AS
	FOURPLEX RECEPTACLE EMERGENCY POWER (RED)	+16" OR	9. 11.	_	MAGNETIC SHEAR LOCK		PER. MFR.
	· '	+16" OR				. 41.6"	
	TVSS PROTECTED RECEPTACLE	AS NOTED	9. 11.	$\Diamond$	SECURITY SYSTEM KEYED ACCESS SWITCH	+4'-0"	6.
	SPECIAL PURPOSE OUTLET	+16" OR AS NOTED	10. WITH CAP. 11	\(\hat{\k}\)	SECURITY SYSTEM KEYPAD	+4'-0"	6.
	CORD DROP		SEE DIAGRAM	$\Diamond$	INFRARED SENSOR	AS NOTED	
	CORD REEL		SEE DIAGRAM	(M)	SECURITY MOTION DETECTOR		MOUNT AS PER. MFR.
:	TOMBSTONE RECEPTACLE			P	SECURITY SYSTEM POP-IT		MOUNT AS PER. MFR.
	PLUGMOLD	+46" OR AS NOTED		<u>\$</u>	GLASS BREAK DETECTOR	CEILING	, and the late
	TELEVISION OUTLET	+16" OR	11.	€\$	ELECTRIC DOOR STRIKE	-	12.
	POWER POLE	AS NOTED					12.
		AO NOT-	SEE DIAGRAM,	<b>♠</b>	ELECTRIC DOOR LOCK		14.
	FLAT PANEL DISPLAY WALL BOX TVSS RECEPT., DATA AND OTHER DEVICES, REFER TO DIAGRAMS	AS NOTED	SPEC. 26 2726 SEE DIAGRAM,	- R →	ACCESS CONTROL SYSTEM, REQUEST TO EXIT		
	CEILING PROJECTION SYSTEM CEILING BOX	ABOVE CEILING	SPEC.	CR	ACCESS CONTROL CARD READER	+4'-0"	6.
_ T	DATA OUTLET, ONE CABLE	+16" OR AS NOTED	9. 11.	BR	ACCESS CONTROL BIOMETRIC READER	+4'-0"	6.
	DATA OUTLET, TWO CABLES	+16" OR AS NOTED	9. 11.		CAMERA - SEE SCHEDULE	AS NOTED	SEE DIAGRAM, SPEC.
	DATA OUTLET, THREE CABLES	+16" OR	9. 11.	•	DOOR POSITION INDICATING SWITCH		J. LU.
	DATA OUTLET (SUBSCRIPT INDICATES CABLE QTY)	+16" OR	9. 11.	A	LIGHT FIXTURE (LETTER DESIGNATES TYPE)		
	,	AS NOTED	J. 11.		,		
	WIRELESS ACCESS POINT, TWO CABLES	CEILING		(EQ) 34	EQUIPMENT NUMBER		
	CALL SWITCH	+4'-0"	6.	842	ARCHITECTURAL ROOM NUMBER		
$\longrightarrow$					DEVICE/EQUIPMENT (TEXT DESIGNATES TYPE) SEE SCHEDULE		
	<u> </u>					1	

PROJECT MANAGER: GOPI PULIVARTHI

# FIXTURE SCHEDULE

LIGHT FIXTURE ABBREVIATION SCHEDULE STANDARD PAINTED COLOR AS SELECTED BY THE ARCHITECT WALL@CLG WALL MOUNT AT CORNER OF WALL AND CEILING CUSTOM FINISH AS SELECTED BY THE ARCHITECT CFBA CUSTOM PAINTED COLOR AS SELECTED BY THE ARCHITECT STANDARD FINISH AS SELECTED BY THE ARCHITECT

# LIGHT FIXTURE GENERAL NOTES

- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS OF LIGHT FIXTURES. BRING ALL DISCREPANCIES OF LOCATIONS AND QUANTITIES TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO BIDDING.
- 2. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS AND LOCATIONS OF LIGHT FIXTURES. BRING ALL DISCREPENCIES TO THE ATTENTION OF THE
- ARCHITECT PRIOR TO BIDDING.
- 3. REFER TO THE SPECIFICATIONS FOR OTHER LIGHT FIXTURE, FUSING, BALLAST, AND LAMP REQUIREMENTS AND ACCEPTABLE MANUFACTURERS.
- TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO RELEASE. REFER TO LIGHTING PLANS FOR ALL LINEAR FIXTURE LENGTHS. THE CATALOG NUMBER IS BASED ON THE FIXTURE SPECIFIED AND MAY NOT REFLECT THE QUANTITY OR OVERALL LENGTH OF LINEAR FIXTURES REQUIRED. CONTRACTOR TO NOTE THAT VARIOUS FIXTURE LENGTHS MAY BE REQUIRED TO ACHIEVE THE OVERALL RUN

4. CONFIRM AVAILABLE MOUNTING DEPTHS OF ALL LIGHT FIXTURES AND COMPARE WITH DEPTHS SHOWN ON SHOP DRAWINGS. BRING ALL POTENTIAL CONFLICT AREAS

- REFER TO LIGHTING PLANS FOR ALL UNDERCABINET FIXTURE LENGTHS. THE CATALOG NUMBER IS BASED ON THE FIXTURE SPECIFIED AND MAY NOT REFLECT THE QUANTITY OR OVERALL LENGTH OF THE UNDERCABINET FIXTURES REQUIRED. CONTRACTOR TO NOTE THAT VARIOUS FIXTURE LENGTHS MAY BE REQUIRED TO ACHIEVE THE OVERALL RUN LENGTH OR TO FIT WITHIN THE MILLWORK. COORDINATE FIXTURE LAYOUT WITH MILLWORK SHOP DRAWINGS PRIOR TO LIGHTING
- . WHEN A CONTRADICTION EXISTS BETWEEN A SPECIFIC MODEL NUMBER AND THE DESCRIPTION, NOTIFY THE ELECTRICAL ENGINEER AND/OR LIGHTING DESIGNER.
- 8. PRIOR APPROVALS ARE REQUIRED BEFORE BIDDING THE PROJECT AND SHALL BE SUBMITTED TO THE ELECTRICAL ENGINEER'S OFFICE AT LEAST (8) EIGHT WORKING DAYS BEFORE THE BID. PRIOR APPROVALS RECEIVED AFTER THIS TIME PERIOD SHALL BE REJECTED.
- 9. REFER TO SPECIFICATIONS 20 0500, 26 5100 & 26 5600 (16001, 16510 & 16551). 10. VALUE ENGINEERING CONDUCTED WITHOUT THE DESIFGN TEAM IE; ARCHITECT, ENGINEER & LIGHTING CONSULTANT/DESIGNER WILL NOT BE ALLOWED, REVIEWED

TYPE	DESCRIPTION	MFR.	CATALOG NUMBER	VOLTS	TOTAL WATTS	LAMP
A2	1X4 CEILING MOUNT FIXTURE WITH TWO LENSES; INTERIOR LENS IS WHITE POLYCARBONATE AND EXTERIOR LENS IS CLEAR ACRYLIC LENS SECURED BY 'Z' RAILS	NEWSTAR	AGV-14-OP-12-30	120 V	40 VA	3648 LUMENS; 3000K
OW1	BOROSILICATE GLASS DOOR WALL PACK WITH POLYCARBONATE VANDAL SHIELD AND EMERGENCY BATTERY PACK	LUMARK	LD-WP-GL-4B-120-EMLED-CD-VS/WPGL	120 V	32 VA	4160 LUMENS; 4000K; 70CRI
S4	4 FT LED LINEAR CEILING MOUNT FIXTURE WITH POLYCARBONATE LENS	FAIL-SAFE	FVS4-4-LD4-1-STD-30-120-P125	120 V	34 VA	3476 LUMENS; 3000K;80CRI
X1	DUAL-HEAD DC EMERGENCY LIGHT WITH AC CHARGING WITH 90 MNITUE BATTERY	CHLORIDE	VLTUR	120 V	4 VA	LED

# **EQUIPMENT SCHEDULE**

## NOTES:

- 1. NON-FUSED DISCONNECT SWITCH
- 2. FUSED DISCONNECT SWITCH

SUBMITTALS.

- 3. BREAKER IN ENCLOSURE
- 4. MANUAL STARTER WITH THERMAL OVERLOAD 5. MAGNETIC STARTER
- 6. MAGNETIC STARTER/NON-FUSED DISCONNECT COMBINATION
- 7. MAGNETIC STARTER/FUSED DISCONNECT COMBINATION 8. MAGNETIC STARTER/BREAKER COMBINATION
- 9. VARIABLE FREQUENCY DRIVE
- 10. REDUCED VOLTAGE STARTED
- 11. DIRECT CONNECTION 12. RECEPTACLE/SPECIAL PURPOSE OUTLET/ETC.
- 13. TWO-SPEED STARTER. COORDINATE WITH MOTOR TYPE 14.SOLID STATE SOFT-STARTER

A. FURNISHED, INSTALLED AND CONNECTED UNDER DIVISION 26(16) B. FURNISHED AND INSTALLED UNDER ANOTHER DIVISION. REQUIRED CONNECTION **UNDER DIVISION 26(16)** C. FURNISHED UNDER ANOTHER DIVISION BUT INSTALLED AND CONNECTED UNDER **DIVISION 26(16)** D. FURNISHED, INSTALLED AND CONNECTED UNDER ANOTHER DIVISION

CB = CIRCUIT BREAKER CKW = CHILLER KILOWATTS

NOTE 1: PER 250.122(A), EQUIPMENT GROUND IS NOT REQUIRED TO BE LARGER THAN THE PHASE CONDUCTOR

				ELECT	RICAL E	EQUIPM	ENT INF	ORMAT	ION		WIRES OCPD REFERENCE I						E NOTES				
				LOAD					PS	IZE					_						
UNIT	#	DESCRIPTION	Н	FLA	MCA	*	VOLTAGE	PHASE	FULL LOAD AMI	CONDUIT SI	TYPE	SETS	QTY	SIZE	EQ. GROUND	TYPE	AMPS	STARTER	DISCONNECT	OTHER	REMARKS
EF	1	EXHAUST FAN	0.00	0 A	0 A	0 VA	120 V	1	1.9 A	3/4"	CU	1	2	12 AWG	12 AWG	СВ	15 A		4A		
EWH	1	WATER HEATER	0.00	0 A	0 A	0 VA	240 V	1	31.3 A	3/4"	CU	1	2	8 AWG	10 AWG	СВ	50 A		2A		
EWH	2	WATER HEATER	0.00	0 A	0 A	0 VA	240 V	1	31.3 A	3/4"	CU	1	2	8 AWG	10 AWG	СВ	50 A		2A	·	



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AUTHORITY HAVING JURISDICTION

PROJECT DESCRIPTION

SOUTHRIDGE PARK NEW RESTROOMS BUILDING 2

5051 SOUTH 4015 WEST TAYLORSVILLE, UTAH

SHEET NAME:

SCHEDULES AND NOTES

REVISIONS

ISSUE DATE: 08/25/18 ISSUE TYPE: PERMIT SET DRAWN BY: CHECKED BY: Checker

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# GENERAL SHEET NOTES

PROVIDE UNSWITCHED HOT CONDUCTORS FOR ALL EMERENCY AND EXIT LIGHT FIXTURES.

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SOUTHRIDGE PARK NEW RESTROOMS BUILDING 2

5051 SOUTH 4015 WEST TAYLORSVILLE, UTAH

SHEET NAME:

ELECTRICAL LIGHTING PLAN

REVISIONS

MARK DATE DESCRIPTION

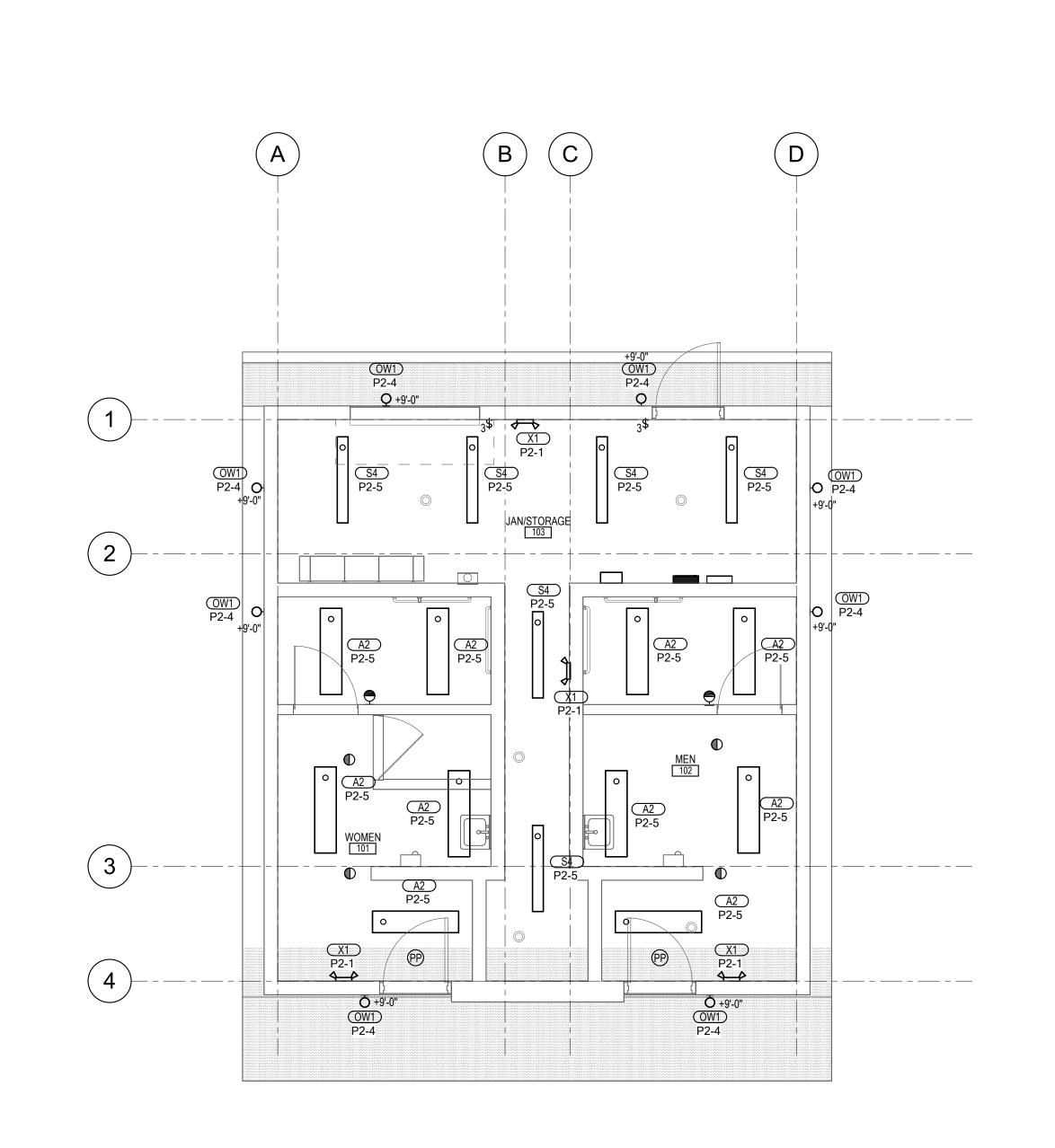
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**E201** 





ELECTRICAL LIGHTING PLAN

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

# GENERAL SHEET NOTES

- ALL THE ELECTRICAL PANELS IN THE EXISTING BUILDING TO BE DEMOLISHED. ALL THE EXISTING FEEDERS, CONDUIT AND BRANCH WIRING TO REMAIN DURING DEMOLITION. WHERE CONDUIT/WIRE LENGTH IS INSUFFICIENT TO RUN TO NEW PANEL LOCATION, PROVIDE HDPE BOX WITH DIMENSIONS SUFFICIENT FOR NUMBER OF CONDUITS. EXTEND CONDUIT AND SPLICE WIRE TO NEW PANEL.
- ELECTRICAL CONTRACTOR TO PROVIDE NECESSARY WIRING AND CONDUIT AS NECESSARY FOR A COMPLETE OPERATION.

# SHEET KEYNOTES

- E1 PROVIDE POWER FOR HAND DRYER. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR ELEVATION.
- E2 PROVIDE POWER FOR ELECTRIC MORTIZE TIMED LOCK.COORDINATE WITH SHOP DRAWINGS FOR WIRING AND TERMINATION REQUIREMENTS.
- PROVIDE A NEW SINGLE PHASE 120/240V ELECTRICAL PANEL. REFER TO SITE PLAN FOR FEEDER AND CONDUIT REQUIREMENTS. ELECTRICAL CONTRACTOR TO REPLACE EXISTING BREAKERS IN THE OLD PANEL TO NEW PANEL. DETERMINE AND RETERMINATE CONDUCTORS AS REQUIRED. PROVIDE ADDITIONAL WIRING AND CONDUIT AS NECESSARY.
- E5 PROVIDE A NEW SINGLE PHASE 277/480V ELECTRICAL PANEL. REFER TO SITE PLAN FOR FEEDER AND CONDUIT REQUIREMENTS. ELECTRICAL CONTRACTOR TO REPLACE EXISTING BREAKERS IN THE OLD PANEL TO NEW PANEL. DETERMINE AND RETERMINATE CONDUCTORS AS REQUIRED. PROVIDE ADDITIONAL WIRING AND CONDUIT AS NECESSARY.
- E6 PROVIDE A NEW SINGLE PHASE 45KVA 480V-120/240V STEP DOWN WALL MOUNTED TRANSFORMER. REFER TO ONE-LINE FOR CONDUCTOR REQUIREMENTS.
- E7 PROVIDE POWER FOR IRRIGATION CONTROL PANEL. COORDINATE LOCATION WITH ARCHITECT DRAWINGS PRIOR TO ROUGH-IN.
- L1 LIGHTING CONTACTOR. RUN ALL EXTERIOR LIGHT FIXTURES THROUGH LIGHTING CONTACTOR. REFER TO PO7/E401 FOR SCHEDULE.ALL THE EXISTING LIGHTING BRANCH CIRCUITS TO BE RUN THROUGH THE CONTACTOR.
- L2 PROVIDE TIME CLOCK TO CONTROL ALL THE EXTERIOR AND PARK LIGHTING.COORDINATE WITH OWNER FOR CONTROLLING SEQUENCE.

# PANELBOARD SCHEDULE

PANEL: P2 TYPE: Type 1 VOLTS: 120/240 Single PHASE: WIRES: 3 MOUNTING: Surface LOCATION: JAN/STORAGE 103 MAINS: MCB **BUSSING:** FED FROM: T1 X SUBFEED LUGS X DOOR-IN-DOOR **AMP**: 200 A ISO GROUND 200% NEUTRAL SPD

BRANCH BREAKERS													
ITEM	AMPS	POLE	WIRE SIZE	CIR. NO.	A	В	A	В	CIR. NO.	WIRE SIZE	POLE	AMPS	ITEM
EMERGENCY LIGHTING	20 A	1	12	1	4 VA		500 VA		2	12	1	20 A	IRRIGATION CONTROL PANEL
EF-1	20 A	1	12	3		222 VA		256 VA	4	12	1	20 A	LIGHTING
HAND DRYER	20 A	1	10	5	1000 VA		500 VA		6	12	1	20 A	LCP
WATER COOLER *	20 A	1	12	7		360 VA		900 VA	8	12	1	20 A	RECEPTACLE JAN/STORAGE 103
WH-1	50 A	2	6	9	3750 VA		3750 VA		10	6	2	50 A	WH-2
				11		3750 VA		3750 VA	12				
RECEPTACLE MEN 102	20 A	1	12	13	540 VA		540 VA		14	12	1	20 A	RECEPTACLE WOMEN 101
POWER JAN/STORAGE 103	20 A	1	12	15		500 VA		0 VA	16	-	1	20 A	EXISTNG
HAND DRYER	20 A	1	10	17	1000 VA		0 VA		18	-	1	20 A	EXISTNG
EXISTNG	20 A	1		19		0 VA		0 VA	20	-	1	20 A	EXISTNG
EXISTNG	20 A	1		21	0 VA		0 VA		22	-	1	20 A	EXISTNG
EXISTNG	20 A	1		23		0 VA		0 VA	24		2	20 A	EXISTNG
EXISTNG	20 A	1		25	0 VA		0 VA		26				
EXISTNG	30 A	1		27		0 VA		0 VA	28		1	20 A	EXISTNG
SPARE	20 A	1		29	0 VA		0 VA		30		1	20 A	SPARE

12790 9738 **TOTAL (VA)** CONNECTED LOAD TOTAL 107 A 81 A AMPS/PHASE | Legena: |\* PROVIDE 5mA GFCI CIRCUIT BREAKER AMPS RMS SYSM.

# SWITCHBOARD SCHEDULE

Switchboard: MDP Location: JAN/STORAGE 103 Supply From: Mounting: **Enclosure:** 

Bussing:

Volts: 480/277 Wye Phases: 3

Wires: 4

**A.I.C. Rating:** 33,000 Mains Type: MCB Mains Rating: 225 A Door-In-Door: X

CKT	CIRCUIT DESCRIPTION	# OF	AMPS	LOAD	REMARKS
1	T1	2	20 A	22528 VA	
2	EXISTING	2	20 A	0 VA	
3	EXISTING	2	20 A	0 VA	
4	EXISTING	2	20 A	0 VA	
5	EXISTING	2	20 A	0 VA	
6	EXISTING	2	20 A	0 VA	
7	EXISTING	2	20 A	0 VA	
8	EXISTING	2	20 A	0 VA	
9	EXISTING	2	20 A	0 VA	
10	EXISTING	2	20 A	0 VA	
11	EXISTING	2	20 A	0 VA	
12	SPARE	1	20 A	0 VA	
13	SPARE	1	20 A	0 VA	
14	SPARE	1	20 A	0 VA	
15	SPARE	1	20 A	0 VA	
16	SPARE	1	20 A	0 VA	
17	SPARE	1	20 A	0 VA	
18	SPARE	1	20 A	0 VA	
19	SPARE	1	20 A	0 VA	
20	SPARE	1	20 A	0 VA	
		TOTAL C	ONN. LOAD:	22028 VA	
		T	OTAL AMPS:	26 A	7

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5051 SOUTH 4015 WEST TAYLORSVILLE, UTAH

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ELECTRICAL POWER AND SYSTEMS PLAN

**REVISIONS** 

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