



ISSUED FOR TENDER WARWICK CAMP'S WARRANT OFFICERS' AND SERGEANTS' MESS BATH RM. PROJECT

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#1 SOUTH ROAD WARWICK, WK01 BERMUDA

Prepared by

MINISTRY OF PUBLIC WORKS

ARCHITECTS SECTION

FOR

THE ROYAL BERMUDA REGIMENT

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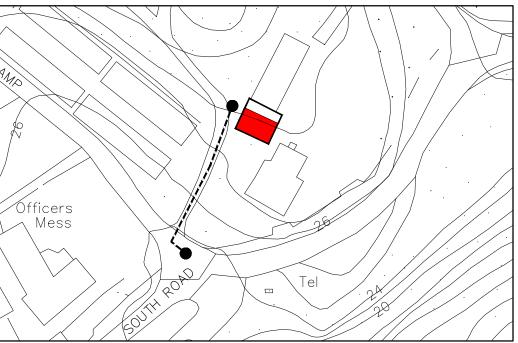
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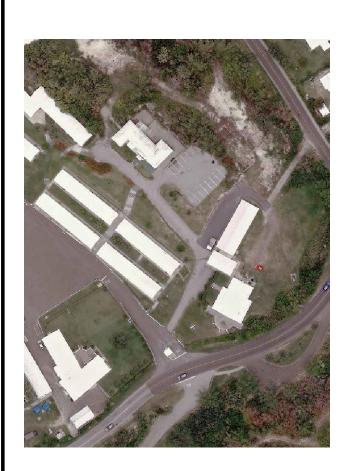


LOCATION PLAN - 1:2500

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No. Date: *B Issued for Tender* December 2022 A Issued for Client Review May 13, 2022 **<u>SCALE:</u>** AS NOTED **SURVEY** Prepared By: DESIGN **Date:** *MAY 2022* Prepared By: **Checked By:** Date DRAWING Prepared By: **Date:** *MAY 2022* Checked By: **REVIEWED By:**

Project Number:00.00.00

ISSUE / REVISION

Project Title:

MEN AND WOMEN SHOWER & WASHROOM RENOVATIONS/ALTERATIONS

ROYAL BERMUDA REGIMENT - WARWICK CAMP South Road Warwick Parish

Sheet Title:

TITLE SHEET

Revisions: Sheet Number:



WASTE MANAGEMENT NOTES:

- WOOD PRODUCTS EXCEPT THOSE THAT PRODUCE UNDESIRABLE EMISSIONS) SHALL BE DELIVERED TO THE TYNES BAY WASTE TREATMENT FACILITY.
- ALL METAL, PVC, GYPSUM BOARD SHALL BE DELIVERED TO THE AIRPORT WASTE MANAGEMENT FACILITY.
- ANY HAZARDOUS WASTE, SUCH AS PRODUCTS CONTAINING MERCURY (LIKE FLUORESCENT LAMPS MERCURY SWITCHES), PCB'S (LIGHT BALLASTS, TRANSFORMERS), OTHER CHEMICALS (PESTICIDES, OILS) SHALL NOT BE ACCEPTED AT ANY FACILITY, EXCEPT DURING HAZARDOUS WASTE DROP OFF DAYS OR BY PRIOR ARRANGEMENT WITH THE WASTE MANAGEMENT SECTION OF THE MINISTRY OF WORKS AND ENGINEERING.
- MISCELLANEOUS METAL SUCH AS DOOR FRAMES, WINDOW FRAMES, WITH OR WITHOUT GLASS, SHALL BE DELIVERED TO THE AIRPORT DUMP SITE.
- ALL WHITE GOODS, SMALL APPLIANCES, TV SETS, ETC. SHALL BE CLEARED OF CONTAMINANTS SUCH AS MERCURY, PCB, REFRIGERANTS, OILS, ETC. THEY SHALL BE CRATED OR FLATTENED BEFORE DELIVERY TO THE AIRPORT SITE.
- ALL UNSALVAGEABLE LUMBER IS TO BE STRIPPED OF PLASTER, EXPANDED WIRE MESH, STEEL ATTACHMENTS (EG. DOOR KNOBS, LOCK SETS, HINGES). ETC. (SMALL NAILS ARE ACCEPTABLE). THE LUMBER SHALL BE DELIVERED TO THE TYNES BAY SITE IN A SIZE READY FOR INCINERATION OR LARGER SIZES MAY BE STORED AND DELIVERED TO THE TYNES BAY SITE BY PRIOR ARRANGEMENT WITH THE MANAGER OF THE TYNES BAY SITE.
- ALL PLASTER, PLASTER LATH, ETC. AND ASSOCIATED EXPANDED METAL MESH SHALL BE SIZED TO MANAGEABLE DIMENSIONS AND DELIVERED NOT MIXED WITH OTHER DEMOLITION WASTE TO THE AIRPORT SITE.
- CARPETS SHALL BE STRIPPED FROM THE SITE, ROLLED INTO SIZE NOT EXCEEDING 10" IN DIAMETER AND 10" IN LENGTH AND SHALL BE DELIVERED TO THE TYNES BAY SITE. GENERAL CONTRACTOR TO MAKE ARRANGEMENTS WITH FACILITY MANAGEMENT PRIOR TO DROP-OFF
- ALL WOODEN FURNITURE/MILLWORK IS TO BE AS FREE OF METAL AS PRACTICAL AND TRANSPORTED TO THE TYNES BAY SITE.
- 10. FURNITURE MADE OF POLYVINYL CHLORIDE (PVC) SHALL BE DELIVERED TO THE AIRPORT SITE.

GENERAL NOTES:

_	
1.	IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO: -USE FIGURE DIM. IN PREFERENCE TO SCALING -VERIFY AND CHECK ALL DIMENSIONS PRIOR AND DURING CONSTRUCTION AND BEFORE ORDERING MATERIALS. -DETERMINE THE LOCATION OF EXISTING SERVICES AND REQUIRED CHANGES VERIFY ALL EXISTING CONDITIONS FOR COORDINATION OF WORK TO BE EXECUTED -TO REPORT ANY DISCREPANCIES OR SUBSTITUTIONS TOBE REVIEWED BY THE PROJECT MANAGER BEFORE PROCEEDING. NO SUBSTITUTIONS SHALL BE MADE THAT HAVE NOT BEEN APPROVED PRIOR TO CONTRACT SIGNING.
2.	THE CONTRACTOR SHALL OBTAIN AND PAY FOR ANY PERMITS, EXCEPT THE BUILDING PERMIT, INCLUDING WORK PERMITS FOR FOREIGN SUB-CONTRACTORS AND INSPECTIONS REQUIRED BY THE APPROPRIATE AUTHORITY TO ALLOW WORK TO PROCEED AND AS APPLICABLE FOR OCCUPANCY. THE CONTRACTOR WILL ALSO BE RESPONSIBLE TO ARRANGE FOR ANY REQUIRED INSPECTIONS BY THE AUTHORITIES HAVING JURISDICTION OVER THE PROJECT.
3.	ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH ACCEPTABLE TRADE PRACTICES FOR PROJECTS OF THIS NATURE, AND SHALL CONFORM TO ALL CURRENT LAWS, RULES REGULATIONS AND CODE REQUIREMENTS APPLICABLE TO THE WORK REQUIRED BY THE AUTHORITIIES HAVING JURISDICTION OVER THE PROJECT.
4.	THE CONTRACTOR SHALL CONFORM TO THE LOCAL BUILDING CODES, LATEST EDITION, UL STANDARDS WHERE APPLICABLE, AND STANDARDS FOR THE PRESERVATION OF PUBLIC HEALTH AND CONSTRUCTION SAFETY, WHICH ARE, OR BECOME, IN FORCE DURING THE PERFORMANCE OF THE WORK. THE LAW OF THE PLACE OF BUILDING SHALL GOVERN THIS CONTRACT.
5.	 IN THE EVENT OF CONFLICTS BETWEEN CONTRACT DOCUMENTS THE FOLLOWING SHALL APPLY: (A) FIGURED DIMENSIONS SHOWN ON A DRAWING SHALL GOVERN EVEN THOUGH THEY MAY DIFFER FROM DIMENSIONS SCALED ON THE SAME DRAWING, (B) AWINGS OF LARGER SCALE SHALL GOVERN OVER THOSE OF SMALLER SCALE OF THE SAME DATE, (C) SPECIFICATIONS SHALL GOVERN OVER DRAWINGS, (D) THE GENERAL CONDITIONS SHALL GOVERN OVER SPECIFICATIONS, (E) SUPPLEMENTARY CONDITIONS SHALL GOVERN OVER THE GENERAL CONDITIONS, AND (F) THE XECUTED AGREEMENT BETWEEN THE OWNER AND THE CONTRACTOR SHALL GOVERN OVER ALL DOCUMENTS.
6.	NOTWITHSTANDING THE FOREGOING, DOCUMENTS OF LATER DATE SHALL ALWAYS GOVERN.
7.	THE CONTRACTOR SHALL SECTION OFF THE CONSTRUCTION AREA SUCH THAT DUST IS KEPT TO A MINIMUM AND THE AREA OF WORK IS SECURED FROM UNAUTHORIZED ACCESS. THE CONTRACTOR IS TO KEEP THE SITE IN AN OCCUPIABLE AND OPERATIONAL STATE OF CLEANLINESS. OPERATIONAL SYSTEMS INCLUDE BUT ARE NOT LIMITED TO FIRE DETECTION & NOTIFICATION, HVAC AND ELECTRICAL SYSTEMS. IN THE EVENT SERVICE DISRUPTION AFFECTS OTHER TENANCIES, NOTICE OF SUCH SHALL BE PROVIDED BY THE CONTRACTOR AT LEAST 24 HOURS IN ADVANCE.
8.	THE SITE IS TO BE MAINTAINED THROUGHOUT THE DURATION OF THE CONTRACT, AND DEBRIS AND WASTE SHOULD NOT BE ALLOWED TO ACCUMULATE AND SHOULD BE REMOVED AT THE END OF EACH WORKING DAY AND LAWFULLY DISPOSED OF.
9.	DRAWINGS ARE NOT TO BE SCALED
10.	THE CONTRACTOR SHOULD TAKE NECESSARY PRECAUTIONS TO ADEQUATELY PROTECT THE SITE, THE WORKS, AND EXISTING PROPERTY. ALL DISTURBED WORK SHALL BE MADE GOOD TO MATCH EXISTING WORK OR AS DIRECTED BY THE PROJECT MANAGER.
11.	ENSURE ALL EXISTING SURFACES IN THE GROUND FLOOR LOBBY AND ELEVATOR ARE WELL PROTECTED DURING CONSTRUCTION. ANY DAMAGE CAUSED TO EXISTING CONSTRUCTION WILL BE PATCHED AND MADE NEW AT THE CONTRACTOR'S EXPENSE.
12.	THE CONTRACTOR IN CARRYING OUT THE WORK MUST ABIDE BY THE SAFETY AND HEALTH ACT (1982, AMENDMENTS OF ALL OCCUPATIONAL SAFETY & HEALTH) ENSURING THAT THE NECESSARY PRECAUTIONS ARE TAKEN TO ENSURE THE SAFETY AND HEALTH OF CONTRACT WORKERS, SITE VISITORS

- 12. THE CONTRA BY THE SAFE OCCUPATIO NECESSARY SAFETY AND HEALTH OF CONTRACT WORKERS, SITE VISITORS AND ALL PERSONNEL INVOLVED IN THE PROJECT OR ATTENDING THE PREMISES WHERE THE WORK IS BEING COMPLETED, INCLUDING KEEPING NOISE AND DIRT TO A MINIMUM.
- 13. THE CONTRACTOR IS RESPONSIBLE FOR LEAVING THE SITE SECURE EACH DAY THAT WORK IS BEING PERFORMED.
- 14. PROVIDE MILLWORK SHOP DRAWINGS.

- 15. CUTTING AND PATCHING -ALL CUTTING AND PATCHING REQUIRED TO THE EXISTING BUILDING STRUCTURE FOR WORK SHALL BE INCLUDED UNDER THIS CONTRACT AND BE ACCEPTABLE TO THE ARCHITECT/OWNER. -WHERE CONDUITS PASS THROUGH FIRE RATED WALLS OR
- FLOORS, PROVIDE FIRE STOPPING MATERIAL LISTED WITH, AND BEAR LABEL OF CSA AND ULC. AND MAINTAIN SAME FIRE RATING OF BUILDING COMPONENT PENETRATION.

SCOPE OF WORK NOTES:

5.

- LOCATION: THE LOCATION OF SELECTIVE DEMOLITION TO THE BUILDING STRUCTURE WILL NORMALLY BE INDICATED ON THE DRAWINGS AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION.
- CONDITION OF STRUCTURE: THE OWNER ASSUMES NO RESPONSIBILITY FOR THE CONDITION OF ITEMS OR STRUCTURES TO BE DEMOLISHED.
- 3. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS BEFORE STARTING ANY DEMOLITION OR CONSTRUCTION WORK.
- **TEMPORARY SIGNAGE: DURING DEMOLITION OR ALTERATION** WORK IN BUILDINGS USED BY THE GENERAL PUBLIC AND STAFF THE CONTRACTOR SHALL PROVIDE SIGNS DIRECTING BUILDING USERS TO NECESSARY SERVICES OF THE FACILITY, IN ADDITION TO SIGNS APOLOGIZING FROM DISRUPTION.
- **PROTECTION:** THE CONTRACTOR SHALL PROVIDE TEMPORARY BARRICADES AND OTHER FORMS OF PROTECTION AS REQUIRED TO PROTECT THE OWNER'S PERSONNEL AND THE GENERAL PUBLIC FROM INJURY DUE TO SELECTIVE DEMOLITION WORK.
- WHERE APPLICABLE, THE CONTRACTOR SHALL PROVIDE PROTECTIVE MEASURES TO PROVIDE FREE AND SAFE PASSAGE OF THE OWNER'S PERSONNEL AND THE GENERAL PUBLIC TO AND FROM OCCUPIED AREAS OF THE BUILDING.
- WHERE NECESSARY, THE CONTRACTOR SHALL PROVIDE INTERIOR AND EXTERIOR SHORING, BRACING OR SUPPORT TO PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF THE STRUCTURE OR ELEMENT TO BE DEMOLISHED, AND ADJACENT FACILITIES OR WORK TO REMAIN.
- THE CONTRACTOR SHALL PROTECT FROM DAMAGE ANY EXISTING FINISH WORK THAT IS TO REMAIN AND BECOMES EXPOSED DURING DEMOLITION OPERATIONS, INCLUDING PROTECTING FLOORS WITH SUITABLE COVERINGS WHEN NECESSARY.
- 9. THE CONTRACTOR SHALL CONSTRUCT TEMPORARY DUST-PROOF PARTITIONS WHERE REQUIRED TO SEPARATE AREAS WHERE NOISY OR EXTENSIVE DIRT OR DUST OPERATION ARE PERFORMED AND EQUIP PARTITIONS WITH DUST-PROOF DOORS AND SECURITY LOCKS IF REQUIRED.
- 10. THE CONTRACTOR SHALL PROVIDE TEMPORARY WEATHER PROTECTION BETWEEN DEMOLITION AND REMOVAL OF EXISTING CONSTRUCTION ON THE EXTERIOR SURFACES, AND THE INSTALLATION NEW CONSTRUCTION, TO ENSURE THAT NO WATER LEAKAGE OR DAMAGE OCCURS TO THE STRUCTURE AND INTERIOR AREAS OF THE EXISTING BUILDING.
- 11. THE CONTRACTOR SHALL MAKE PROVISION FOR THE CONTINUITY OF UTILITY SERVICES TO OCCUPIED AREAS OF THE SITE AND SHALL PERMANENTLY OR TEMPORARILY CAP OFF OR RELOCATE UTILITY SERVICE LINES AS REQUIRED.
- 12. CONCRETE AND MASONRY: CONCRETE AND MASONRY SHALL BE DEMOLISHED IN SMALL SECTIONS, CUT AT JUNCTIONS WITH CONSTRUCTION REMAIN, USING A POWER-DRIVEN MASONRY SAW OR HAND TOOLS WHERE POSSIBLE AND NOT POWER-DRIVEN IMPACT TOOLS.
- 13. DEBRIS SHOULD BE PROMPTLY REMOVED TO AVOID IMPOSING EXCESSIVE LOADS ON SUPPORTING WALLS, FLOORS AND FRAMING, AND TO AVOID BLOCKING EGRESS TOO & FROM THE SITE.
- 14. SERVICES: IF UNEXPECTED MECHANICAL, ELECTRICAL OR STRUCTURAL ELEMENTS ARE ENCOUNTERED. THE CONTRACTOR SHALL SUBMIT DETAILS OF SUCH TO THE ARCHITECT.
- 15. ASBESTOS AND OTHER HAZARDOUS MATERIALS: IF HAZARDOUS MATERIALS ARE ENCOUNTERED DURING DEMOLITION OR OTHER OPERATIONS, THE CONTRACTOR SHALL CEASE WORK IN THE AFFECTED AREA AND SUBMIT A REPORT TO THE ARCHITECT; ANY WORK IN SUCH AN AREA SHALL COMPLY WITH APPLICABLEREGULATIONS CONCERNING REMOVAL, HANDLING, PROTECTION AGAINST EXPOSURE AND ENVIRONMENTAL POLLUTION, AND DISPOSAL.
- 16. BURNING OF ANY REMOVED MATERIALS IS NOT PERMITTED ON THE SITE.

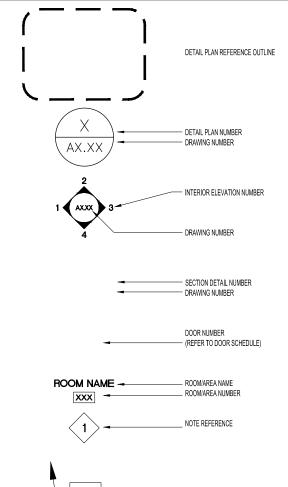
ELECTRICAL/MECHANICAL/STRUCTURAL:

ALL ARCHITECTURAL DRAWINGS TO BE REFERENCED IN CONJUNCTION WITH THE ELECTRICAL/MECHANICAL/STRUCTURAL DWG'S SUBMITTED BY DESIGN ENGINEER OF RECORD.

GENERAL DEMOLITION NOTES:

- 1. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS IN THE EVENT THAT DISCREPANCIES ARE NOTED BETWEEN SITE CONDITIONS AND THE PROJECT DOCUMENTS.
- 2. PROTECT EXISTING CONSTRUCTION AT PERIMETER WALLS. EXISTING FURRED COLUMNS AND AREAS ADJACENT TO DEMOLITION.
- 3. WHERE EXISTING CONSTRUCTION HAS BEEN REMOVED, PREP SUBSURFACES AND ADJACENT SURFACES AS REQ'D FOR NEW CONSTRUCTION.
- 4. SALVAGE (REMOVE & REUSE) EXISTING DOORS, FRAMES AND HARDWARE. SPARE DOORS AND HARDWARE TO BE TURNED OVER TO OWNER'S STOCK IF DESIRED.
- 5. REFER TO MEP DRAWINGS FOR DEMOLTION SCOPE OF PLUMBING FIXTURES, ELECTRICAL AND HVAC ITEMS
- 6. EXISTING DUCTING TO BE ALTERED TO SUIT NEW LAYOUTS. (REFER TO MECHANICAL DRAWINGS)
- 7. CO-ORDINATE FOR DISCONNECT AND RELOCATION OF EXISTING WALL MOUNTED FIRE/ SECURITY/ ELECTRICAL PANELS AS REQUIRED. (REFER TO ELECTRICAL DRAWINGS)
- 8. ENSURE MINIMAL DISTURBANCE TO ANY OCCUPIED SPACE ADJACENT TO AREAS WHERE DEMOLITION OCCURS.
- 9. USE OF ANY SOLVENT STRIPPERS TO OCCUR AFTER HOURS FOLLOWING PROPER VENTILATION PROCEDURES.
- 10. REPAIR AND MAKE NEW ALL EXISTING SURFACES AFFECTED BY DEMOLITION WORK. FINISHES TO MATCH ADJACENT SURFACES U.N.O.

GENERAL DRAWING LEGEND:



_ PARTITION TYPE

- 1. CONTRACTOR TO CHALK OUT PARTITION LAYOUT FOR DESIGNER'S APPROVAL PRIOR TO STUD INSTALLATION.
- 2. CONTRACTOR TO ENSURE VARYING WALL THICKNESS COORDINATE WITH DOOR FRAME SIZES.
- ENSURE ALL TRADES (ELECTRICAL, MECHANICAL, COMMUNICATIONS ETC.) HAVE COMPLETED THEIR PORTION OF WORK BEFORE BOARDING UP BOTH SIDES OF PARTITION. ENSURE ALL INSPECTION REQUIRED BY BERMUDA BUILDING CODE AND FIRE **REGULATIONS HAVE OCCURRED.**
- 4. CONTRACTOR TO VERIFY CRITICAL ON SITE DIMENSIONS FOR SHOP DRAWINGS PRIOR TO IMPLEMENTING CONSTRUCTION OF MILLWORK. REPORT ANY DISCREPANCIES TO DESIGNER
- 5. ALL DRYWALL EDGES ARE TO BE SMOOTH AND PLUMB LINE TRUE. PATCH. FILL AND MAKE GOOD ANY HOLES IN WALL WHERE EXISTING OUTLETS OR SERVICES MAY HAVE OCCURRED.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS FOR COORDINATION OF WORK TO BE EXECUTED.
- 7. MAKE GOOD ALL EXISTING WALLS DAMAGED BY DEMOLITION WORK. ALL EXISTING WALLS TO BE MADE GOOD FOR PAINT FINISH. (PAINT BY OTHERS)
- PROVIDE SUFFICIENT BLOCKING IN ALL AREAS THAT REQUIRE SUPPORT OF WALL OR CEILING MOUNTED EQUIPMENT OR MATERIALS (EG. MILLWORK, SPECIALTY EQUIPMENT, COAT HOOKS, WINDOW SHADES). BLOCKING TO BE CONCEALED.
- 9. PROVIDE NEW WOOD FLOOR BASE TO MATCH EXISTING ON ALL NEW PARTITION WALLS.

GENERAL PARTITION NOTES:

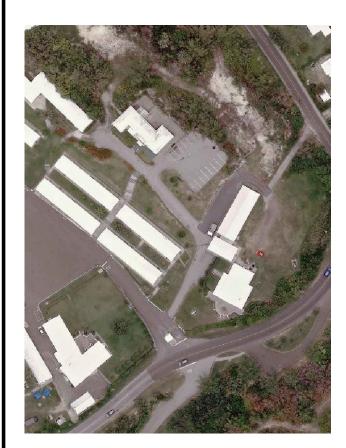
GENERAL RCP NOTES:

- CONTRACTOR TO REVIEW EXISTING CEILING SITE CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION. REPORT ANY INTERFERENCE WITH DUCTS, BEAMS, PIPES ETC IMMEDIATELY TO DESIGNER.
- 2. ALL MECHANICAL AND ELECTRICAL WORKS TO COMPLY WITH BERMUDA CODE REQUIREMENTS AND ALL AUTHORITIES HAVING JURISDICTION. ANY CHANGES TO BE REVIEWED WITH DESIGNER.
- MECHANICAL CONTRACTOR RESPONSIBLE FOR ALL LABOUR AND MATERIALS TO COMPLETE THE NECESSARY HVAC ALTERATIONS.
- 4. WHERE REQUIRED PROVIDE FIRE DAMPERS AT ALL DUCTS PENETRATING FIRE SEPARATION.
- 5. ALL SWITCHES AND COVER PLATES TO MATCH EXISTING, MULTIPLE SWITCHES TO BE GANGED.
- 6. ALL EXISTING, NEW AND RELOCATED EMERGENCY EXIT SIGNS TO BE CONNECTED TO BASE BUILDING EMERGENCY SYSTEM.
- PROTECT EXISTING CEILING SYSTEM AND LIGHT FIXTURE DURING CONSTRUCTION. CLEAN ALL LIGHT FIXTURES UPON COMPLETION.
- NOMINATED MECHANICAL AND ELECTRICAL SUB CONTRACTORS TO REPLACE ANY DAMAGED TILES WITH NEW TILES AND RELOCATE EXISTING TILES IN AREAS AFFECTED BY THEIR WORK.
- 9. REUSE EXISTING LIGHT SWITCHES WHERE POSSIBLE, ENSURE SUFFICIENT SWITCHES ARE PROVIDED IN OPEN OFFICE AREAS. PROVIDE SEPARATE LIGHT SWITCH FOR NEW DOWNLIGHTS AND WALL SCONCES.
- 10. THESE DRAWINGS ARE TO BE READ IN CONJUCTION WITH THE STRUCTURAL, MECHANICAL, ELECTRICAL AND ARCHITECTURAL DRAWING.
- 11. ALL NEW DRYWALL CEILINGS TO BE 1/2" THICK USG DRYWALL FIXED TO GALVANIZED STEEL FRAMING. TAPE, FILL AND SAND READY FOR PAINT FINISH.
- 12. ANY PROPOSED CHANGES AND/OR MODIFICATIONS DUE TO FIELD CONDITIONS MUST RECEIVE APPROVAL FROM DESIGNER AND MEP CONSULTANTS.
- 13. MECHANICAL SUBCONTRACTOR TO ARRANGE FOR AN INSPECTION AND BALANCING REPORT AFTER PROJECT COMPLETION. UPON COMPLETION, THE HVAC SYSTEM IS TO BE FULLY BALANCED TO THE SATISFACTION OF THE OWNER.
- 14. ELECTRICAL CONTRACTOR TO SUBMIT CUT SHEETS ON ALL FIXTURES FOR DESIGNER/ARCHITECT REVIEW.
- 15. ALL SWITCHES ON PARTITIONS TO BE MOUNTED VERTICALLY 8" FROM DOOR FRAME OR AS NOTED ON DRAWING.
- 16. DIMENSIONS ARE FROM THE FACE OF THE WALL TO CENTER OF THE FIXTURE (U.O.N.). RECESSED DOWNLIGHTS ARE TO BE INSTALLED IN CENTER OF CEILING TILE UNLESS DIMENSIONED OTHERWISE.
- 17. ALL FIRE DETECTORS AND DIFFUSERS MUST NOT BE WITHIN 3'-0" ON CENTRE OF EACH OTHER. CONTRACTOR TO COORDINATE W/FIRE ALARM TECHNICIAN.

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ISSUE / REVISION

No.		Date:
В	Issued for Tender	December 2022
A	Issued for Client Review	May 13, 2022
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MEN AND WOMEN SHOWER & WASHROOM **RENOVATIONS/ALTERATIONS**

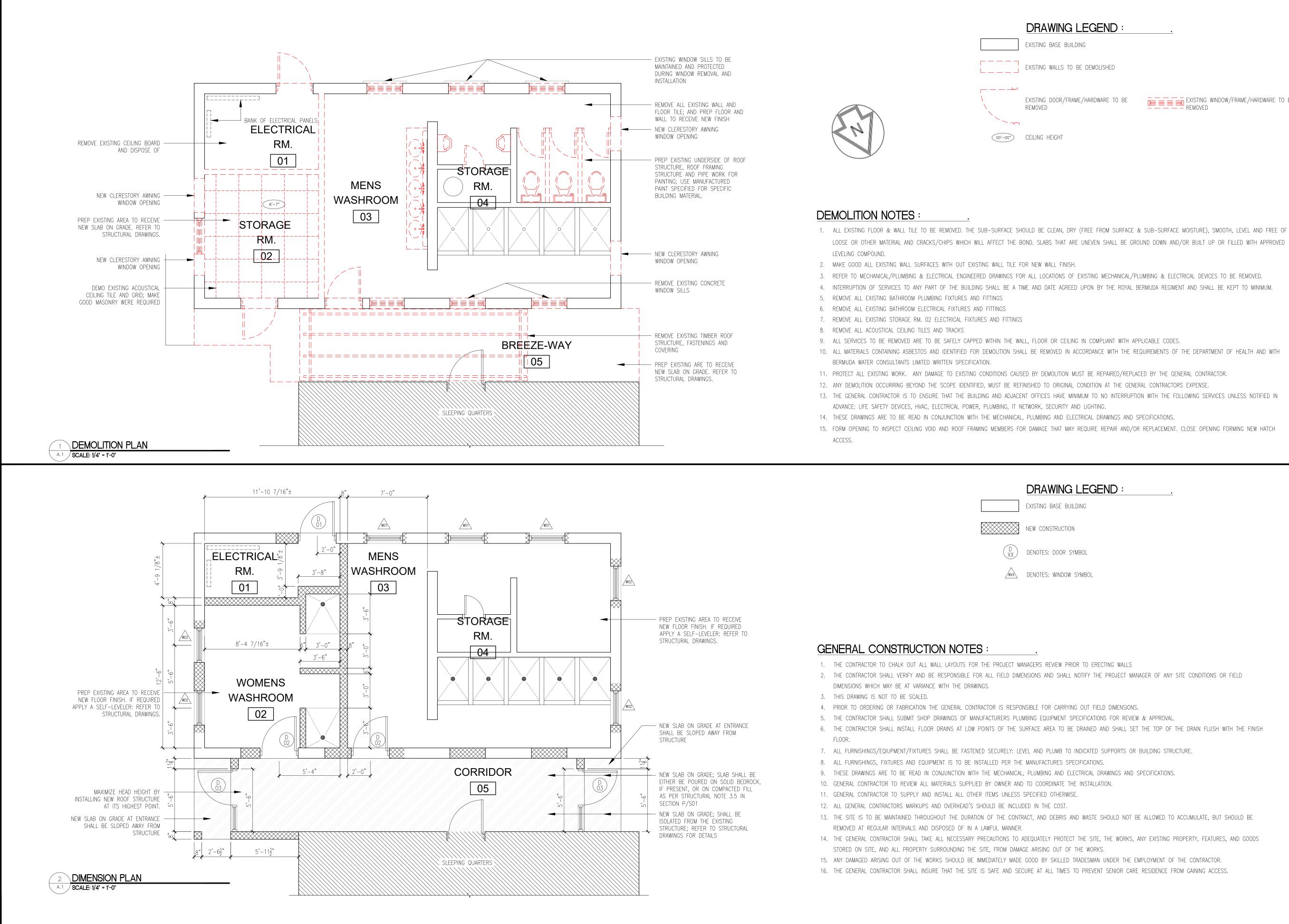
ROYAL BERMUDA REGIMENT - WARWICK CAMP SOUTH ROAD

WARWICK PARISH

Sheet Title: **GENERAL NOTES**

Sheet Number: Revisions:





DRAWING LEGEND :

EXISTING BASE BUILDING

EXISTING WALLS TO BE DEMOLISHED

EXISTING DOOR/FRAME/HARDWARE TO BE

EXISTING WINDOW/FRAME/HARDWARE TO BE - - REMOVED

LOOSE OR OTHER MATERIAL AND CRACKS/CHIPS WHICH WILL AFFECT THE BOND. SLABS THAT ARE UNEVEN SHALL BE GROUND DOWN AND/OR BUILT UP OR FILLED WITH APPROVED

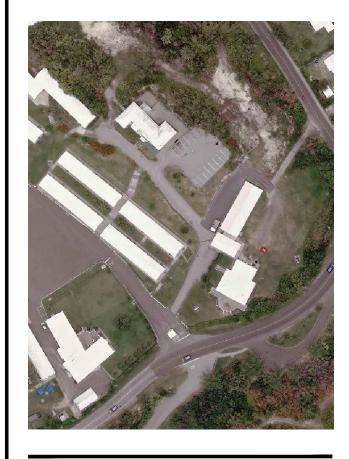
DRAWING LEGEND

EXISTING BASE BUILDING

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ISSUE / REVISION No. Date: December 2022 *B Issued for Tender A Issued for Client Review* May 13, 2022 <u>scale:</u> AS NOTED SURVEY Prepared By: Date: DESIGN **Prepared By:** Date MAY 2022 **Checked By:** Date: DRAWING Prepared By: **Date:** *MAY 2022* Checked By: Date: **REVIEWED By: Project Number:** 00.00.00 **Project** Title:

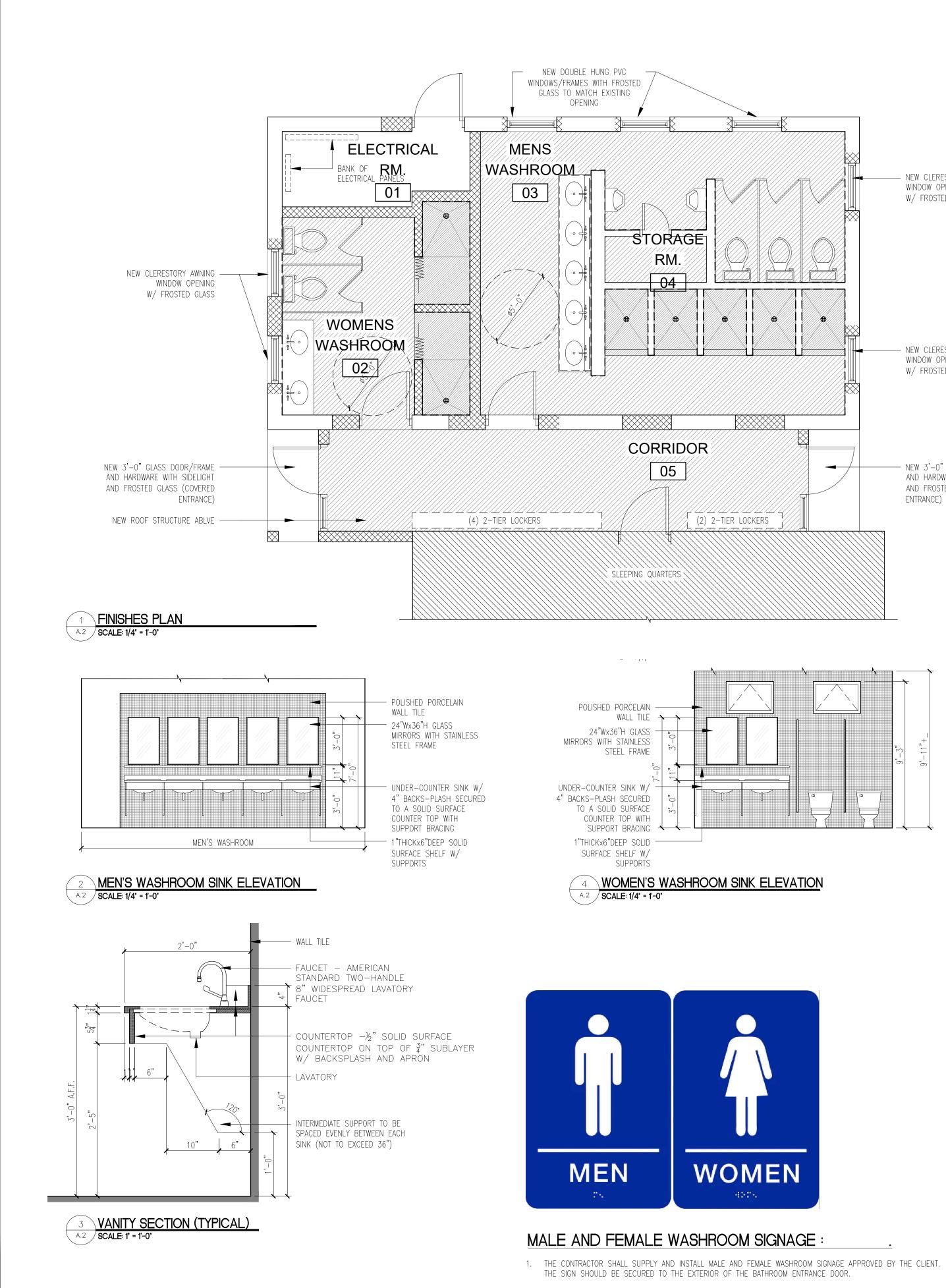
MEN AND WOMEN SHOWER & WASHROOM **RENOVATIONS/ALTERATIONS**

ROYAL BERMUDA REGIMENT - WARWICK CAMP SOUTH ROAD WARWICK PARISH

Sheet Title: FLOOR PLANS

Sheet Number: **Revisions:**





DRAWING LEGEND :

	<u>MAIN FLOOR</u> : DENOTES UNGLAZEI RESIN GROUT
	<u>SHOWER FLOOR</u> : DENOTES UNGLAZEI GROUT POWDER LII
	<u>WALLS</u> : DENOTES NEW POL a ¹ GOUT LINES; HE
00'-00"	CEILING HEIGHT

- RECOMMENDATIONS.

ROOM FINISH SCHEDULE

ROOM NAME	ROOM NAME ROOM # DENOTATION FLOOR DENOTATION WALLS		CEILING		– NOTES			
		DENOTATION		DENOTATION	MALLS	MATERIAL	<u>HEIGHT</u>	NOTES
ELECTRICAL RM.	01	_	RENDER CONCRETE	PT	PRIMER AND PAINT	DRYWALL	9'-11"	DRYWALL – MOLD/MOISTURE RESISTANT; TAPE/MUD/SAND/PRIME AND PAINT
WOMEN'S WASHROOM	02	POR	24"x24" PORCELAIN NON SLIP FLOOR TILE; EPOXY GROUT	CT1 (PT)	8"x24" CERAMIC WALL TILE; AND WALL PAINT	DRYWALL	9'-11"	TILE – INSTALL TILE ON WALLS AS INDICATED ON THE FLOOR PLAN
MEN'S WASHROOM	03	POR	24"x24" PORCELAIN NON SLIP FLOOR TILE; EPOXY GROUT	CT1 (PT)	8"x24" CERAMIC WALL TILE; AND WALL PAINT	EXISTING	EXISTING	TILE – INSTALL TILE ON WALLS AS INDICATED ON THE FLOOR PLAN; PAINT EXISTING CEILING PER NOTES
STORAGE RM.	04	_	RENDER CONCRETE	PT	PRIMER AND PAINT	DRYWALL	8'-0"	DRYWALL – MOLD/MOISTURE RESISTANT; TAPE/MUD/SAND/PRIME AND PAINT
CORRIDOR	05	POR	24"x24" PORCELAIN NON SLIP FLOOR TILE; EPOXY GROUT	PT	PRIMER AND PAINT	DRYWALL	TBD	DRYWALL – MOLD/MOISTURE RESISTANT; TAPE/MUD/SAND/PRIME AND PAINT
EXTERIOR ENTRANCE	06	POR	24"x24" PORCELAIN NON SLIP FLOOR TILE; EPOXY GROUT					SLOPE AWAY FROM BUILDING
NOTES:								
1) STANDARD TILE LAY	out patte	ERN TO INCORP	ORATE $\frac{1}{8}$ GROUT LINES (FLOC	RS/WALLS) ALS	O WHERE THE WALL TILE MEE	IS THE FLOO	R TILE.	
2) FLOOR MEMBRANE	– DITRA S	SCHLUTER MEME	BRANE					
3) SHOWER WALL AND	FLOOR M	EMBRANE – KE	RDI SCHLUTER MEMBRANE					
4) INSTALL NEW NON- THIN-SET ADHESIVE AN	SLIP POR ID GROUT	CELAIN TILE (TIL SHALL BE PER	E LAYOUT SHALL BE SYMMET MANUFACTURERS SPECIFICAT	RICAL, BEGINNIN IONS FOR AREAS	IG AT THE CORNER AXES OF ⁻ S EXPOSED TO WATER	THE SPACE)	with ¹ / ₈ " str	AIGHT & EVEN GROUT LINES;
5) APPLY SELF-LEVELI	NG SCREE	ED TO EXISTING	FLOORS					
6) TILE EDGE PROTECT	ION PROF	ILE – FLAT PRO	OFILE PVC EXTRUSION					
7) WALL TILE TO BE IN	NSTALLED	FULL HEIGHT W	ERE SPECIFIED					
8) APPLY PRIMER AND	PAINT ON	N ALL EXPOSED	WALLS UNLESS OTHERWISE S	SPECIFIED				
9) PRIMER – CONCRE	TE & MAS	ONRY SEALER (DN ALL NEW MASONRY					
10) WALL PAINT – SHI	ERWIN WIL	LIAMS, HARMON	Y INTERIOR LATEX – EGG SH	ELL FINISH; COL	OR TO BE DETERMINED (MOLE	AND MILDE	W RESISTANT	Γ)
11) CEILING PAINT - f	ROLL-A-T	EX (FINE) OR S	SANDTEX WHITE (OR APPROVEI	D EQUAL)				

- NEW CLERESTORY AWNING WINDOW OPENING W/ FROSTED GLASS

NEW CLERESTORY AWNING WINDOW OPENING

W/ FROSTED GLASS

NEW 3'-0" GLASS DOOR/FRAME AND HARDWARE WITH SIDELIGHT AND FROSTED GLASS (COVERED ENTRANCE)

ZED NON-SLIP 18"x18" PORCELAIN TILE W/ $\frac{1}{8}$ "

ZED NON–SLIP MOSAIC TILE W/ $\frac{1}{8}$ " RESIN LINES

OLISHED PORCELAIN WALL TILE W/ HEIGHT TO MATCH EXISTING DATUM

GENERAL FINISHES NOTES :

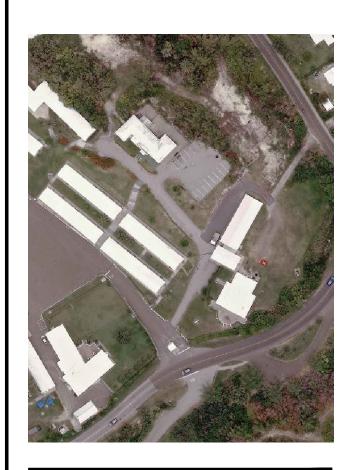
1. COUNTER/VANITY DESIGN AND DIMENSIONS ARE BASED ON EXISTING SITE CONDITIONS. THE CONTRACTOR IS TO VERIFY ALL DIMENSION IN THE FIELD PRIOR TO FABRICATION AND ORDERING. 2. THE CONTRACT IS TO SUBMIT SHOP DRAWINGS, AND FINISHES SAMPLES FOR THE COUNTER/VANITY DESIGN FOR CLIENT APPROVAL PRIOR TO FABRICATION. 3. MIRRORS TO BE CENTERED ABOVE LAVATORIES/SINKS.

4. MOUNTING HEIGHTS FOR ALL WASHROOM ACCESSORIES TO BE IN ACCORDANCE WITH THE MANUFACTURES

MINISTRY OF PUBLIC WORKS

ARCHITECTS SECTION

P.O. Box HM 1365 Hamilton HMFX Bermuda Tel: (441) 295-5151 Fax: (441) 295-4675



ISSUE / REVISION No. Date: December 2022 *B Issued for Tender A Issued for Client Review* May 13, 2022 <u>scale:</u> AS NOTED SURVEY Prepared By: Date:

DESIGN Date: MAY 2022 Prepared By: Date: Checked By: DRAWING Prepared By: **Date:** *MAY 2022* Checked By: Date: **REVIEWED By: Project Number:** 00.00.00 **Project** Title:

MEN AND WOMEN SHOWER & WASHROOM **RENOVATIONS/ALTERATIONS**

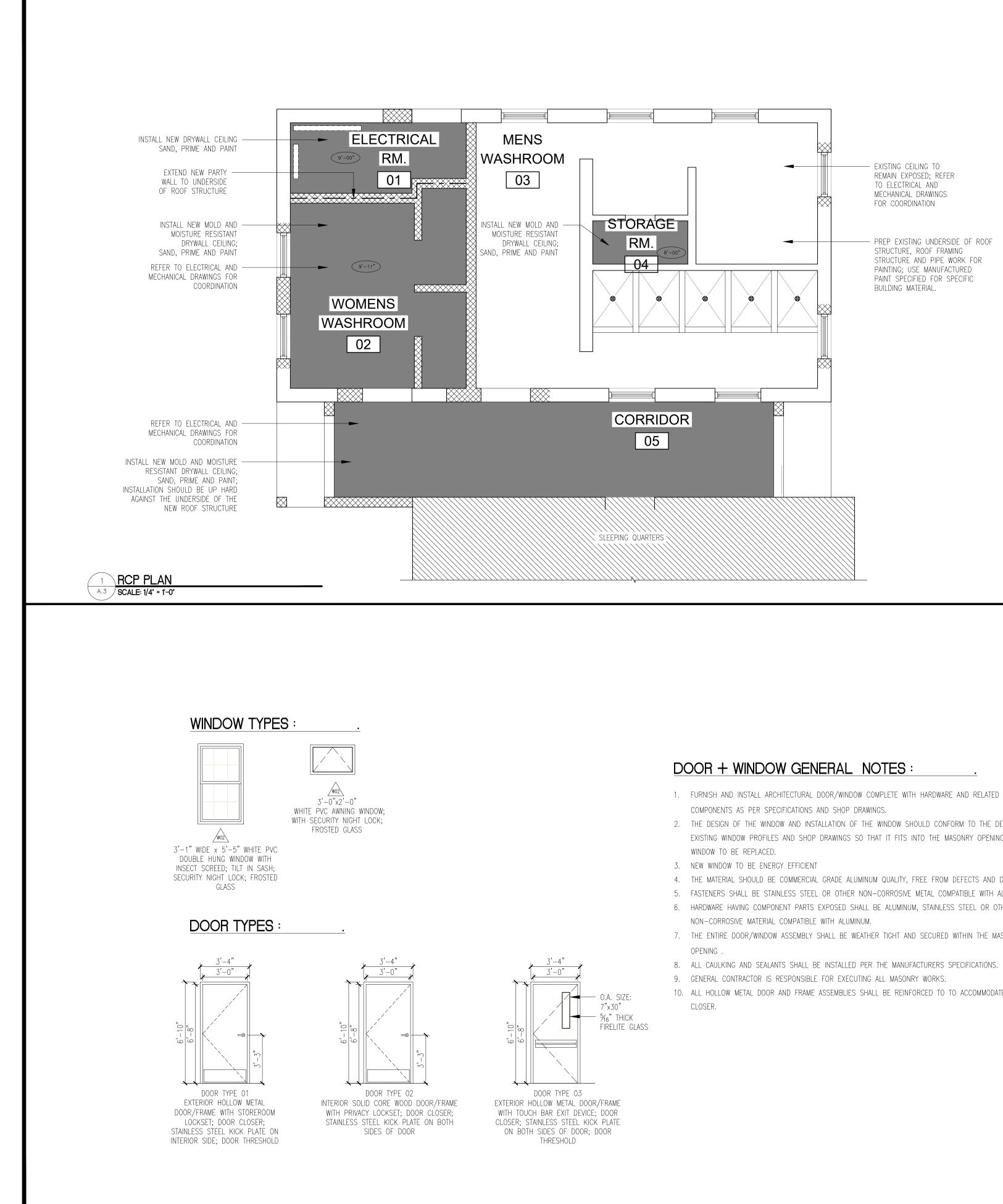
ROYAL BERMUDA REGIMENT - WARWICK CAMP SOUTH ROAD

WARWICK PARISH

Sheet Title: FINISHES PLAN/SCHEDULE AND ENLARGED DETAILED DRAWINGS

Revisions: Sheet Number: / _ \





– EXISTING CEILING TO REMAIN EXPOSED; REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR COORDINATION

PREP EXISTING UNDERSIDE OF ROOF STRUCTURE, ROOF FRAMING STRUCTURE AND PIPE WORK FOR PAINTING; USE MANUFACTURED PAINT SPECIFIED FOR SPECIFIC BUILDING MATERIAL.



DOOR + WINDOW GENERAL NOTES :

- 1. FURNISH AND INSTALL ARCHITECTURAL DOOR/WINDOW COMPLETE WITH HARDWARE AND RELATED
- 2. THE DESIGN OF THE WINDOW AND INSTALLATION OF THE WINDOW SHOULD CONFORM TO THE DETAILS OF EXISTING WINDOW PROFILES AND SHOP DRAWINGS SO THAT IT FITS INTO THE MASONRY OPENING OF THE
- 4. THE MATERIAL SHOULD BE COMMERCIAL GRADE ALUMINUM QUALITY, FREE FROM DEFECTS AND DURABLE.
- 5. FASTENERS SHALL BE STAINLESS STEEL OR OTHER NON-CORROSIVE METAL COMPATIBLE WITH ALUMINUM. 6. HARDWARE HAVING COMPONENT PARTS EXPOSED SHALL BE ALUMINUM, STAINLESS STEEL OR OTHER
- 7. THE ENTIRE DOOR/WINDOW ASSEMBLY SHALL BE WEATHER TIGHT AND SECURED WITHIN THE MASONRY

- 10. ALL HOLLOW METAL DOOR AND FRAME ASSEMBLIES SHALL BE REINFORCED TO TO ACCOMMODATE A DOOR

DRAWING LEGEND :

RESIN GROUT <u>SHOWER FLOOR</u>: DENOTES UNGLAZED NON-SLIP MOSAIC TILE W/ $\frac{1}{8}$ " RESIN

DENOTES UNGLAZED NON-SLIP 18"x18" PORCELAIN TILE W/ $\frac{1}{8}$ "

GROUT POWDER LINES

MAIN FLOOR:

— — — — <u>WALLS</u>: DENOTES NEW POLISHED PORCELAIN WALL TILE W/ a" gout lines; height to match existing datum

00'-00" CEILING HEIGHT

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ISSUE / REVISION

No. Date: December 2022 B Issued for Tender A Issued for Client Review May 13, 2022 <u>scale:</u> AS NOTED **SURVEY** Prepared By: Date: DESIGN **Date:** *MAY 2022* Prepared By: Date: Checked By: DRAWING Prepared By: **Date:** *MAY 2022* Checked By: Date: **REVIEWED By: Project Number:** 00.00.00 **Project Title:** MEN AND WOMEN SHOWER & WASHROOM **RENOVATIONS/ALTERATIONS** ROYAL BERMUDA REGIMENT - WARWICK CAMP SOUTH ROAD WARWICK PARISH Sheet Title: RCP PLAN & DOOR/WINDOW SCHEDULES

Revisions: Sheet Number:

/ - \



22042 RBR BATHROOM RENOVATION ELECTRICAL COVERSHEET & KEY

ELECTRICAL GENERAL NOTES:

- 1. ALL WORKS TO BE PERFORMED IN ACCORDANCE WITH THE BERMUDA BUILDING CODE, WITH PARTICULAR ATTENTION TO NFPA 70 (NEC 2011) AND NFPA 72 FOR LIFE SAFETY.
- 2. THE DRAWINGS INDICATE SIZE AND GENERAL LOCATION OF WORK. EXACT LOCATION AND ELEVATION OF ALL EQUIPMENT SHALL BE FIELD COORDINATED PRIOR TO COMMENCEMENT OF WORK.
- 3. ANY DAMAGES TO EXISTING STRUCTURAL WALLS, FLOORS, CEILINGS, ENTRY DOORS, ETC CAUSED BY
- THE CONTRACTOR SHALL BE REPAIRED AT NO ADDITIONAL EXPENSE. 4. ALL ELECTRICAL POWER SHALL BE DISCONNECTED PRIOR TO START OF DEMOLITION.
- 5. PANEL DIRECTORIES SHALL BE PROVIDED FOLLOWING COMPLETITION OF WORK.
- 6. ELECTRICAL PANEL COVERS SHALL NOT BE LEFT OFF AT ANY TIME UNLESS MEN ARE WORKING ON SITE.
- 7. ELECTRICAL CONTRACTOR SHALL VISIT AND EXAMINE THE EXISTING AREAS AFFECTED BY THE SCOPE OF WORK AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS. CONTRACTOR SHALL INCLUDE ALL
- FORESEEN DIFFICULTIES INTO PRICING. 8. ALL EQUIPMENT CALLED TO BE DEMOLISHED OR REMOVED SHALL HAVE ELECTRICAL CIRCUITING CUT BACK TO SOURCE UNLESS OTHERWISE NOTED.
- 9. ALL RELOCATED ELECTRICAL EQUIPMENT SHALL HAVE ELECTRICAL CONDUIT AND WIRE EXTENDED AS REQURIED TO NEW EQUIPMENT LOCATION UNLESS OTHERWISE NOTED. 10. ALL EQUIPMENT AND MATERIALS SHALL BE NEW UNLESS OTHERWISE NOTED.
- 11. ALL INSTALLATION OF PIPE, FIXTURES & EQUIPMENT SHALL BE AS PER THE MANUFACTURER'S RECOMMENDED INSTALLATION PRACTICE
- 12. PIPE ENDS SHALL BE CUT SQUARE AND DEBURRED INSIDE & OUTSIDE BEFORE BEING FITTED & BUSHINGS SHALL BE USED AT BOX ENTRIES.
- 13. SERVICE ACCESS DOORS SHALL BE PROVIDED FOR ALL FIXTURES, PIPE FITTINGS & EQUIPMENT WHERE REQUIRED FOR SERVICING.
- 14. PROVIDE & INSTALL CONDUIT FOR LOW VOLTAGE CIRCUITS AS SHOWN.
- 15. ALL CONDUITS, WIRING AND ALL OTHER ASSOCIATED ELECTRICAL EQUIPMENT SHALL BE PROVIDED EXCEPT WHERE SPECIFIED. ALL CONDUIT SHALL BE PVC TYPE. MINIMUM CONDUIT SIZE SHALL BE 1/2".
- 16. COORDINATE WITH OTHER TRADES FOR EXACT FINAL LOCATIONS OF ALL EQUIPMENT REQUIRING ELECTRICAL FEEDERS. COORDINATION SHALL HAPPEN PRIOR TO COMMENCEMENT OF WORK
- 17. ALL RELATED CIVIL WORKS SHALL BE PROVIDED BY CIVIL TRADES.
- 18. ALL DIMENSIONS ARE IN FEET & INCHES UNLESS OTHERWISE STATED.
- 19. PENETRATIONS THROUGH FIRE RATED PARTITIONS (INCLUDING FLOOR SLABS) SHALL BE TREATED WITH APPROPRIATE FIRE STOPPING MEASURES AS REQUIRED BY THE BUILDING CODE.
- 20. THESE DRAWINGS ARE BASED ON CURRENT KNOWLEDGE. CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES ON SITE TO ENSURE COMPATIBILITY WITH SITE CONDITIONS.
- 21. ITEMS OF MATERIAL & EQUIPMENT NOT SPECIFICALLY NOTED AS PROVIDED BT BLDC ON THE DRAWINGS OR MENTIONED IN THE SPECIFICATIONS BUT WHICH ARE NECESSARY TO MAKE A COMPLETE & OPERATING INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR
- 22. ELECTRICAL CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS FOLLOWING COMPLETION OF WORK.
- 23. THE OPERATION OF THE ELECTRICAL INSTALLATION DOES NOT CONSTITUTE AN ACCEPTANCE OF THE WORK BY THE OWNER. FINAL ACCEPTANCE IS TO BE MADE AFTER THE CONTRACTOR HAS DEMONSTRATED THAT THE WORK FULFILLS THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS AND HAS FURNISHED ALL REQUIRED CERTIFICATES OF APPROVAL FROM AHJ.
- 24. AT COMPLETION OF PROJECT, ELECTRICAL CONTRACTOR SHALL PERFORM A TEST OF THE EMERGENCY LIGHTING SYSTEM. CONFIRMATION OF FUNCTIONALITY SHALL BE PROVIDED TO THE ENGINEER OF RECORD.

ELECTRICAL ONE-LINE NOTES:

- 1. THE INTENTION OF THE ELECTRICAL ONE-LINE IS TO ILLUSTRATE A POINT-TO-POINT DIAGRAM OF THE ELECTRICAL SERVICE FOR CONTRACTORS REFERENCE. IT IS NOT AN EXHAUSTIVE DIAGRAM OF ALL ELECTRICAL CONNECTIONS WITHIN THE SCOPE OF WORK.
- 2. ALL DISTANCE TAKE-OFFS FOR ELECTRICAL EQUIPMENT SHALL BE TAKEN FROM RELEVANT SITE PLAN DRAWINGS
- 3. ALL CONNECTIONS SHOWN SHALL BE IN RIGID PVC CONDUIT FOR LINE VOLTAGE POWER, AND EMT CONDUIT FOR FIRE ALARM UNLESS OTHERWISE NOTED.

 $1 \rightarrow ELECTRICAL GENERAL NOTES$ 、E001/ **1" = 1'-0**"

ELECTRICAL COVERSHEET ELECTRICAL DEMOLITION PLA ELECTRICAL LIGHTING PLAN ELECTRICAL POWER PLAN

MECHANICAL POWER NOTES:

- PURPOSES ONLY.
- 2. CIRCUITS ARE DESIGNATED BY NUMBER SHOWN ADJACENT TO EQUIPMENT OR BY PANEL SCHEDULE. WIRING IS ONLY SHOWN UNDER SPECIAL CIRCUMSTANCES. ALL CONDUIT, WIRE, BOXES, AND FITTINGS REQUIRED TO ENERGIZE THE EQUIPMENT SHOWN IN THE PANEL SCHEDULES SHALL BE INCLUDED IN BID PRICING.
- 3. CIRCUIT NUMBERS ARE FOR REFERENCE ONLY. FIELD CONDITIONS PREVAIL.
- 4. ELECTRICAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PRIOR TO INSTALLATION OF EQUIPMENT FOR ENGINEER REVIEW AND APPROVAL. REFER TO SPECIFICATIONS FOR SHOP DRAWING LIST

LIGHTING NOTES:

- 1. FOR EXACT SPECIFICATION, LOCATION, AND MOUNTING OF ALL FRONT-OF-HOUSE & LANDSCAPING LIGHTING FIXTURES REFER TO LIGHTING CONSULTANT DRAWINGS
- 2. LIGHTING CONTROL SYSTEM SHALL BE LUTRON QUANTUM OR APPROVED EQUAL FOR ALL FRONT OF HOUSE AND SITE-FIXTURES. ALL BACK OF HOUSE FIXTURES SHALL BE LOCAL CONTROLS ONLY AS SHOWN. REFER TO SITE PLAN FOR CONNECTIONS BETWEEN PANELS.
- 3. CIRCUITS ARE DESIGNATED BY NUMBER SHOWN ADJACENT TO EQUIPMENT OR BY PANEL SCHEDULE. WIRING IS ONLY SHOWN UNDER SPECIAL CIRCUMSTANCES. ALL CONDUIT. WIRE. BOXES, AND FITTINGS REQUIRED TO ENERGIZE THE EQUIPMENT SHOWN IN THE PANEL SCHEDULES SHALL BE INCLUDED IN BID PRICING.
- 4. CIRCUIT NUMBERS ARE FOR REFERENCE ONLY. FIELD CONDITIONS PREVAIL
- 5. ALL BRANCH CIRCUIT WIRING IN CONDUITS SHALL BE CONCEALED IN WALLS. RUN ABOVE CEILINGS, OR RUN UNDERGROUND (WHERE APPLICABLE).
- 6. WHERE LIGHT FIXTURES ARE NOT PROVIDED WITH A CIRCUIT, THOSE FIXTURES SHALL BE FED VIA THE SAME CIRCUIT SERVING FIXTURES OF THE SAME TYPE IN THE SAME ZONE.
- 7. ALL EXIT SIGNS SHALL BE FURNISHED WITH 90 MINUTE BATTERY PACKS AND BE CIRCUITED TO THE NEAREST UNSWITCHED HOT-LEG

POWER NOTES:

- 1. CIRCUITS ARE DESIGNATED BY THE NUMBER SHOWN ADJACENT TO EACH RECEPTACLE WIRING IS SHOWN ONLY UNDER SPECIAL CIRCUMSTANCES. PROVIDE CONDUITS, WIRES, CABLE, AND BOXES REQUIRED TO ENERGIZE THE EQUIPMENT SHOWN.
- 2. CIRCUIT NUMBERS ARE FOR REFERENCE ONLY. FIELD CONDITIONS PREVAIL
- UNLESS OTHERWISE NOTED, ALL BRANCH WIRING SHALL BE RUN CONCEALED IN WALLS, ABOVE CEILINGS, OR UNDERGROUND (WHERE APPLICABLE).
- 4. CIRCUITING SHALL BE PROVIDED IN RIGID PVC PIPING UNLESS OTHERWISE NOTED.
- 5. 3/4"C SHALL BE THE MINIMUM SIZE CONDUIT INSTALLED. NO. 12 THHN SHALL BE MINIMUM WIRING SIZED AND USED FOR ALL BRANCH CIRCUITS UNLESS OTHERWISE NOTED. UPSIZE WIRING FOR BRANCH RUNS EXCEEDING 70' TO NO. 10 THHN.
- 6. WHERE CONDUIT RUNS EXCEED MORE THAN (4) 90 DEGREE BENDS, PROVIDE PULLBOX.
- 7. WHERE RUNNING EXPOSED IN OPEN CEILING, ALL CONDUIT SHALL BE RIGID PVC TYPE AND PAINTED THE SAME COLOR AS THE EXPOSED CEILING. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT COLOR.
- 9. WHEN A GFI-OUTLET SHARES A CIRCUIT WITH ANY OTHER OUTLET, ALL OUTLETS SHALL BE WIRED IN PARALLEL

FIRE ALARM:

- 1. FIRE ALARM SCOPE IS LIMITED TO NEW HARDWIRE SMOKE DETECTORS WITH SOUNDER BASE. REFER TO POWER DRAWINGS.

1. THE INTENTION OF THESE ELECTRICAL DRAWINGS ARE TO SHOW THE GENERAL LAYOUT OF MECHANICAL AND/OR PLUMBING EQUIPMENT AND RESPECTIVE ELECTRICAL CONNECTIONS WITH ASSOCIATED DEVICES. THESE DRAWINGS SHALL BE UTILIZED FOR CIRCUITING

8. ALL ELECTRICAL PANELS SHOWN ARE NEW UNLESS OTHERWISE NOTED.

 ŀ	ABBREVIATIONS		SYMBOLS
DM	EXISTING TO REMOVE	Ж	20A/120V DUPLEX RECEPTACLE. 'G
RE	EXISTING TO RELOCATE	Ψ	20A/120V DUFLEX RECEFTACLE. G
Ν	NEW	\bigcirc	30A/220V SIMPLEX RECEPTACLE
E	EXISTING TO REMAIN	Ψ	
EP	ELECTRICAL PANEL	\$	DECORA STYLE LINE VOLTAGE ON
KVA	KILA-VOLT AMPERES		
KW	KILOWATTS	S	SMOKE DETECTOR
W	WATTS		
MCB	MAIN CIRCUIT BREAKER		
MLO	MAIN LUG ONLY		
MCC	MOTOR CONTROL CENTER		
VFD	VARIABLE FREQUENCY DRIVE		
EM	EMERGENCY		
XFMR	TRANSFORMER		
А	AMPERE		
V	VOLT		
ATS	AUTOMATIC TRANSFER SWITCH		
MTS	MANUAL TRANSFER SWITCH		
RP	RECEPTACLE PANEL		
WP	WEATHER PROOF		
GFI	GROUND FAULT INTERRUPTER		

PAN	IEL:	(E) EP-	1	MOUNTING:	SURFACE			
LOC	ATION:	GROU	ND FLOOR ELECTRICAL ROOM	FED FROM:	VIA SERVICE DISCONNE	СТ		
RAT	ING:	225A N	/LO, 120/208V, 1PH, 3W	NOTES:				
No.	w	Brk.	Description	Phase	Description	Brk.	w	No.
1	300	20/1P	EXISTING LOAD	А	EXISTING LOAD	20/1P	100	2
3	500	20/1P	EXISTING LOAD	В	EXISTING LOAD	20/1P	150	4
5	675	20/1P	EXISTING LOAD	С	EXISTING LOAD	20/1P	65	6
7	50	20/1P	EXISTING LOAD	А	EXISTING LOAD	20/1P	325	8
9	100	20/1P	EXISTING LOAD	В	EXISTING LOAD	20/1P	400	10
11	1000	20A	EXISTING LOAD	С	NEW WATER HEATER	70A	6000	12
13	1000	2P		А		2P	6000	14
15	250	20/1P	MEN'S WASHROOM CONV	В	SPACE			16
17	250	20/1P	WOMEN'S WASHROOM CONV	С	EXISTING LOAD	100A	2200	18
19	150	20/1P	MEN'S WASHROOM EXHAUST	А		2P	2200	20
21	150	20/1P	WOMEN'S WASHROOM EXHAUST	в	EXISTING LOAD	100A	2400	22
23			SPACE	С		2P	2400	24
			CONNECTED KVA	26.67				
			DEMAND KVA	17.33				

BOLD BREAKERS INDICATE NEW BREAKERS. BOLD LOAD DESCRIPTIONS INDICATE NEW ELECTRICAL LOADS

ELECTRICAL INDEX

	E001
AN	E100
	E101
	E102

EPTACLE. 'GFI' TAG INDICATES RECEPTACLE SHALL BE GROUND FAULT INTERUPT TYPE.

VOLTAGE ON/OFF LIGHT SWITCH

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		1
2	TENDER	25 JAN 23
1	CLIENT REVIEW	29 APR 22



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RBR BATHROOM RENOVATION

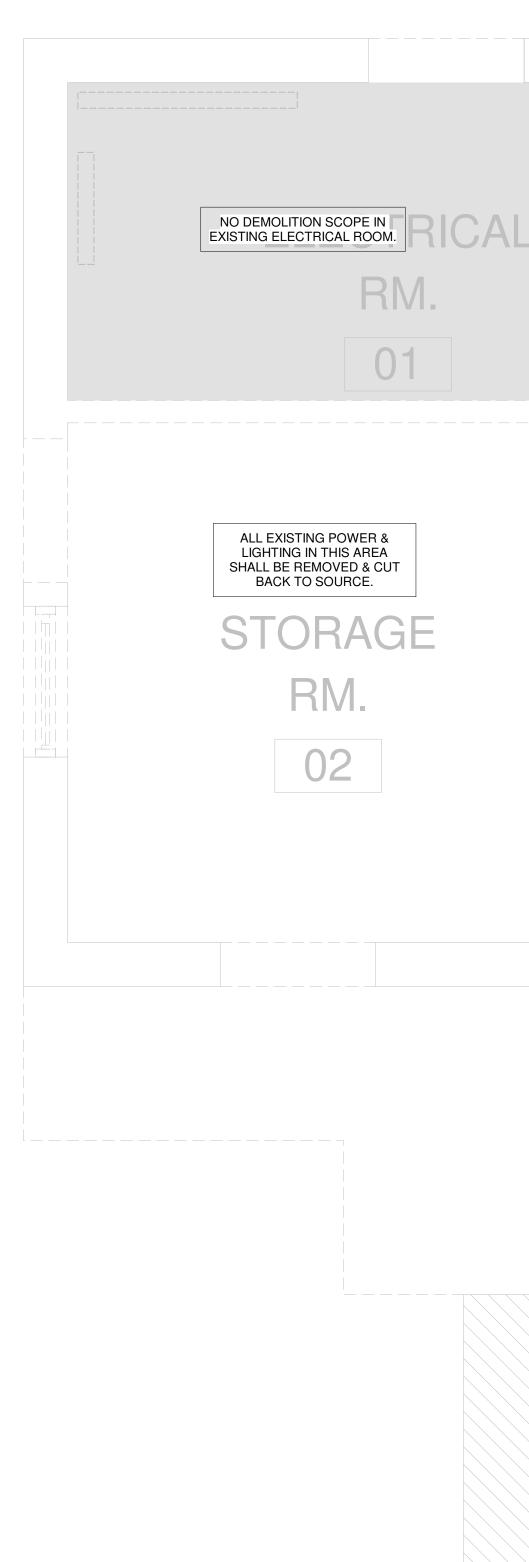
PROJECT NAME

WARWICK CAMP **1 SOUTH ROAD, WARWICK** SHEET TITLE ELECTRICAL **COVERSHEET**

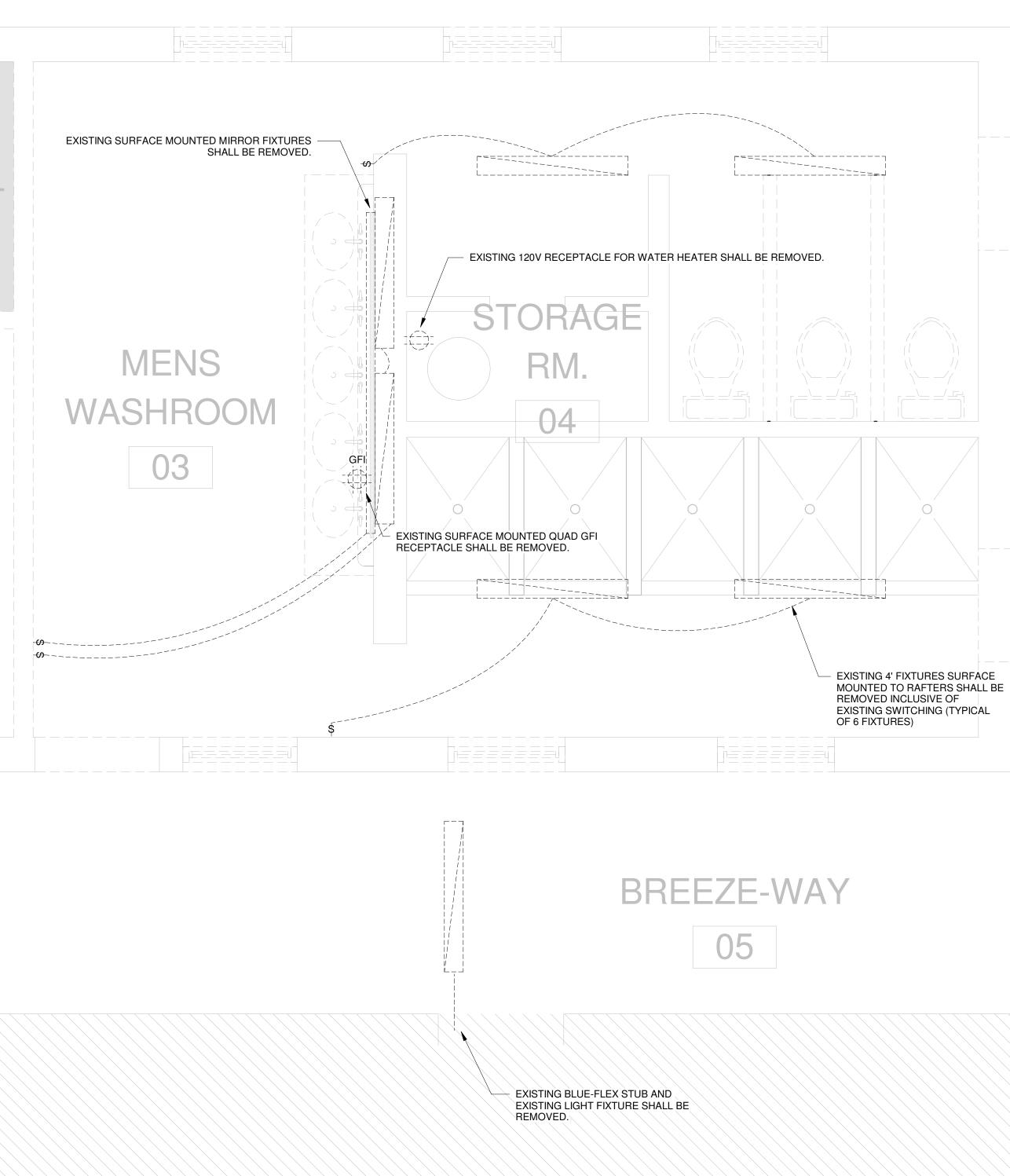
ISSUED FOR TENDER SCALE 1" = 1'-0" PROJECT NO SHEET NO 22042

SHEET SIZE 24" x 36" REVISION

E00



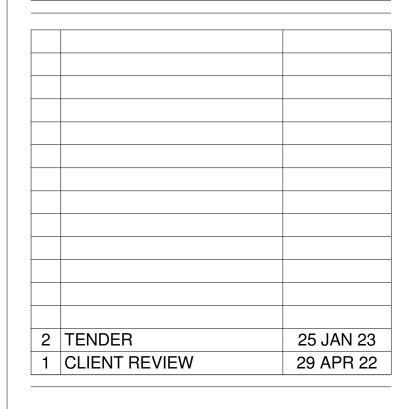
1 ELECTRICAL DEMOLITION PLAN E100 1/2" = 1'-0"



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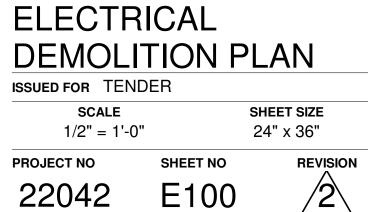
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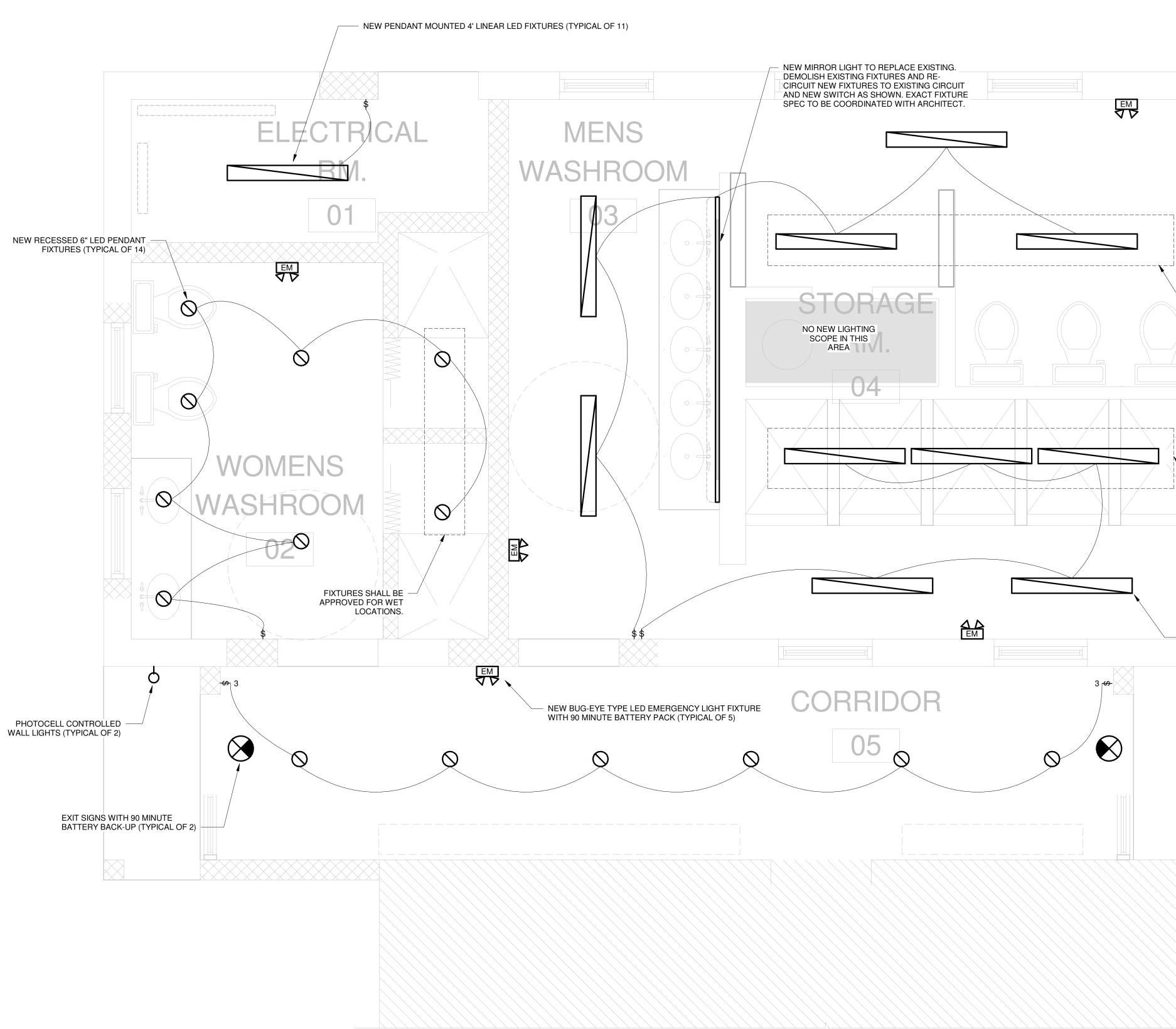
Tel: 441-297-0592 | Fax: 441-295-1988 | Email: info@onsite.bm PREPARED BY Designer PROJECT NAME

CHECKED BY APPROVED BY Checker Approver

RBR BATHROOM RENOVATION

WARWICK CAMP 1 SOUTH ROAD, WARWICK SHEET TITLE





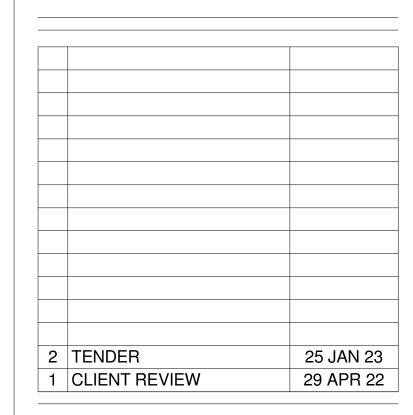
1 ELECTRICAL LIGHTING PLAN E101 1/2" = 1'-0"

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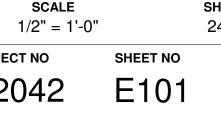
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RBR BATHROOM RENOVATION

WARWICK CAMP 1 SOUTH ROAD, WARWICK SHEET TITLE

ELECTRICAL LIGHTING PLAN ISSUED FOR TENDER SCALE



SHEET SIZE REVISION

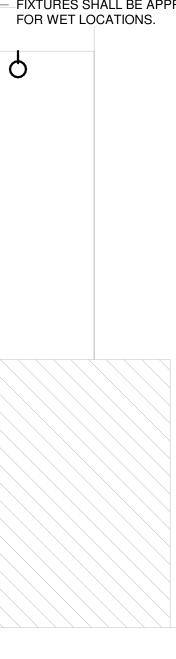
PROJECT NO 22042

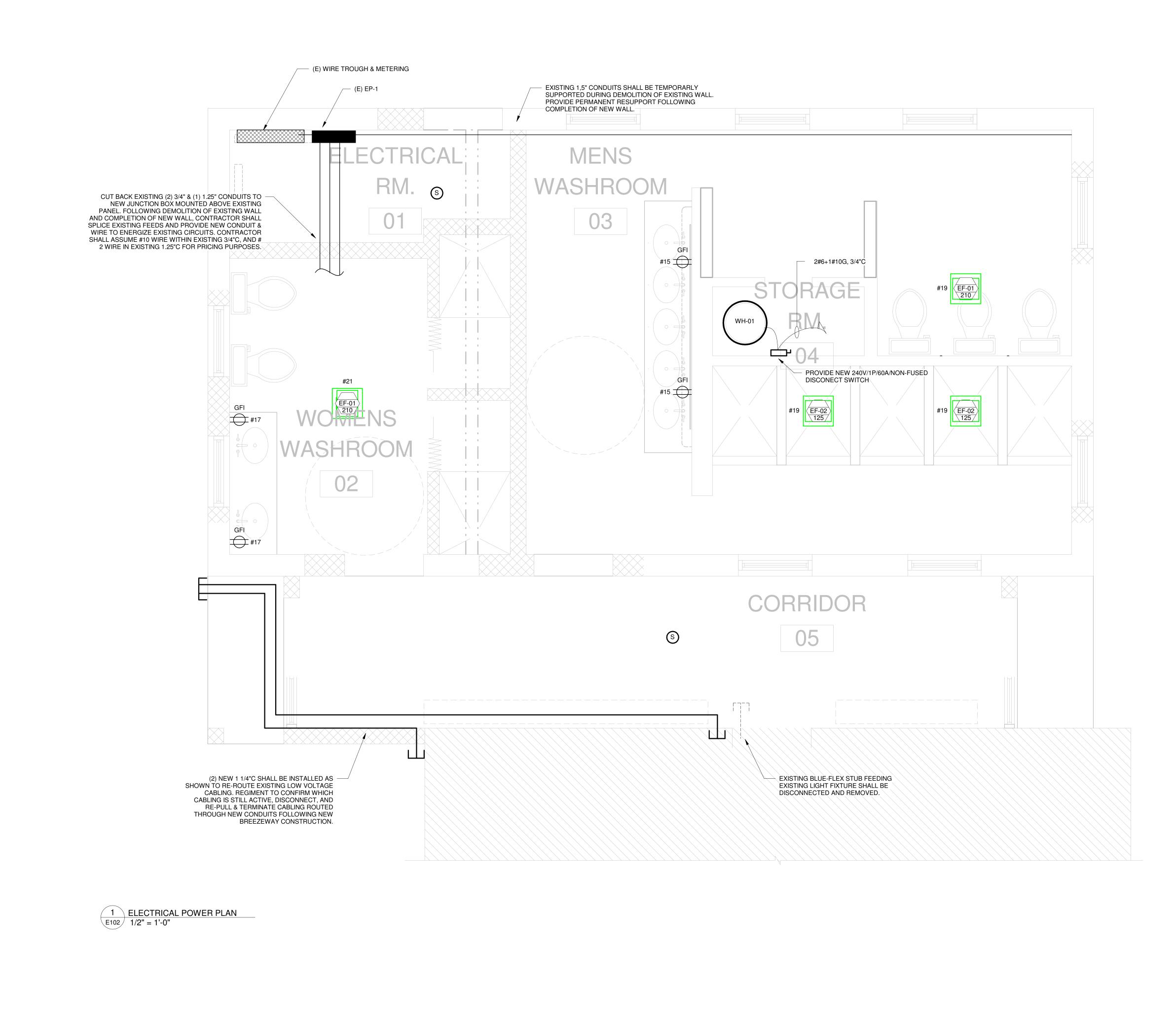
24" x 36" 2

FIXTURES SHALL BE PENDANT MOUNTED TO LEVEL OF EXISTING BEAM

FIXTURES SHALL BE PENDANT MOUNTED TO LEVEL OF EXISTING BEAM AND BE APPROVED FOR WET LOCATION

FIXTURES SHALL BE APPROVED FOR WET LOCATIONS.

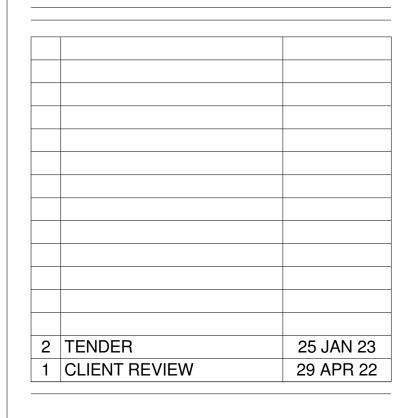




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Tel: 441-297-0592 | Fax: 441-295-1988 | Email: info@onsite.bmPREPARED BYCHECKED BYAPPROVED BYJBJBJBPROJECT NAME

RBR BATHROOM RENOVATION

WARWICK CAMP <u>1 SOUTH ROAD, WARWICK</u> SHEET TITLE ELECTRICAL POWER

PLANISSUED FOR TENDERSCALE1/2" = 1'-0"24" xPROJECT NOSHEET NO

SHEET SIZE 24" x 36" REVISION

22042

E102 2

22042 RBR BATHROOM RENOVATION MECHANICAL COVERSHEET & KEY

MECHANICAL PLAN

						-
	_		<u>C SCHEDI</u>	JLE		
SYMBOL	ABBR.	MEANING	SYMBOL	MEANING	ABBR.	MEANING
CHWS	CHWS	CHILLED WATER SUPPLY	\square	PUMP (SCHEMATIC)	DN	DOWN
CHWR	CHWR	CHILLED WATER RETURN	\bigcirc	POWF (SCHEMATIC)	CD	CONDENSATE DRAIN
CW	CW	CONDENSER WATER LINE	(T)	THERMOSTAT	FV	FOOT VALVE
GW	GW	GREY WATER LINE (NON-POTABLE)		THERMOSTAT	NC	NORMALLY CLOSED
C	С	DOMESTIC COLD WATER SUPPLY			FR	FROM
DX	DX	REFRIGERANT SUPPLY AND RETURN COMBINED	H	HUMIDISTAT	ETR	EXHAUST THROUGH ROOF
		CONTROL WIRE			TLD	TO LATER DETAIL
→→→		PIPE TURNING UP	P	PRESSURE SENSOR	UF/UG	UNDER FLOOR/UNDER GROUND
€€		PIPE TURNING DOWN	\square		AF/AG	ABOVE FLOOR/ABOVE GROUND
·₹		TRAP WITH CLEANOUT	v	VELOCITY SENSOR	USS	UNDER SIDE OF SLAB, STEEL OR ROOF
،		SHUT-OFF VALVE		VARIABLE AIR VOLUME TERMINAL SHOWN	AFG	ABOVE FINISHED GRADE
,∼−−−−−→		BALANCING COCK		WITH ELECTRIC HEAT AND TAG	CTE	CONNECT TO EXISTING
→→→→		CHECK VALVE/BACKFLOW VALVE		LINED RECTANGULAR DUCT WITH	NTS	NOT TO SCALE
·		THREE-WAY VALVE		INTERIOR DIMENSIONS	VAV	VARIABLE AIR VOLUME
		REDUCER/ENLARGER		WRAPPED OVAL DUCT WITH	PD	PRESSURE DROP
			18/8	INTERIOR DIMENSIONS	FCU	FAN COIL UNIT
<u>}</u>		SOLENOID VALVE		UNINSULATED ROUND DUCT	AHU	AIR HANDLING UNIT
,,			18Ø	WITH INTERIOR DIMENSIONS	СН	CHILLER
		WYE STRAINER			EX	HEAT EXCHANGER
·		VACUUM BREAKER		FLEXIBLE DUCT WITH SIZE LABEL	EF	EXHAUST FAN
₽		WATER HAMMER ARRESTOR	FD	DUCT WITH FIRE DAMPER AND	DX	DIRECT EXPANSION
→ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓		REGULATOR	18Ø	ACCESS DOOR	DIFF	DIFFUSER
>		POSITIVE PRESSURE AIR FLOW (SUPPLY)	A 12"Ø	NECK SIZE	CCT	CIRCUIT
		NEGATIVE PRESSURE AIR FLOW (RETURN)	A 450	AIR TERMINAL TAG	EH	ELECTRIC HEAT
U/C		GC TO UNDERCUT DOOR 3/4" OR AS NOTED	07		EDH	ELECTRIC DUCT HEATER
24x12		RECTANGULAR DUCT WIDTH AND HEIGHT (IN.)	BC-001 10	FAN COIL UNIT TAG	EXH	EXHAUST
24/12		OVAL DUCT WIDTH AND HEIGHT (IN.)		SUPPLY DUCT RECTANGULAR SECTION	S	SUPPLY
24Ø		ROUND DUCT DIAMETER (IN.)		EXHAUST DUCT RECTANGULAR SECTION	R	RETURN
				EXHAUST/OA DUCT RECTANGULAR SECTION	RA	RETURN AIR
			\otimes	SUPPLY DUCT OVAL SECTION	GC	GENERAL CONTRACTOR
			\otimes	SUPPLY DUCT ROUND SECTION	OD	OUTSIDE DIMENSION (ROUND, DIAMETER)
			-	·	1 1	

MECHANICAL INDEX

MECHANICAL COVERSHEET & KEY

M001

M101

GENERAL NOTES (HVAC):

- 2. ALL INSTALLATION OF PIPE, FIXTURES & EQUIPMENT SHALL BE AS PER THE MANUFACTURER'S RECOMMENDED INSTALLATION PRACTICE. 3. ALL EQUIPMENT SHALL BE MOUNTED ON OR SUSPENDED FROM THE STRUCTURE WITH
- RESILIENT HARDWARE & SHALL BE INSTALLED WITH SUFFICIENT PROTECTIVE MEASURES TO PREVENT TRANSMISSION OF VIBRATIONS TO THE SUPPORTING STRUCTURE & OTHER CONNECTED SYSTEMS. 4. DO NOT SUPPORT CONDUIT OR PIPING FROM EXISTING DUCTWORK NOR SUPPORT
- DUCTWORK FROM EXISTING CONDUIT OR PIPING. DO NOT DRILL STRUCTURAL MEMBERS. 5. USE BEAM CLAMPS OR OTHER APPROVED STRUCTURAL ATTACHMENT DEVICES. CLAMPS & HANGARS SHALL ATTACH TO BOTH SIDES OF BEAM TO PREVENT MOMENTS & TWISTING. WHERE DIRECT ACCESS TO STRUCTURAL MEMBERS IS NOT POSSIBLE. PROVIDE INTERMEDIATE UNISTRUT TRAPEZE HANGARS FOR SPAN OF OBSTRUCTION.
- CONTRACTOR ON SITE IS REQUIRED TO ENSURE COMPATABILITY WITH SITE CONDITIONS. THE ENGINEER SHALL NOT BE HELD LIABLE FOR ANY CLAIM PERTAINING TO COORDINATION. 7. SEAL ALL PENETRATIONS THROUGH RATED WALLS WITH APPROVED FIRESTOPPING CAULK.
- CONTRACTOR SHALL PROVIDE & INSTALL AT ALL WALL & FLOOR PENETRATIONS A PERMANENT FIRE STOP SYSTEM. THE PENETRATION SEAL MATERIAL MUST BE UNAFFECTED BY MOISTURE & MUST MAINTAIN THE INTEGRITY OF THE FLOOR OR WALL ASSEMBLY FOR ITS RATED TIME PERIOD. 8. THE CONTRACTOR SHALL VERIFY ALL FIREWALL PENETRATIONS & SHALL INSTALL
- APPROPRIATELY RATED FIRE DAMPER ASSEMBLIES & FIRE STOPPING AS REQUIRED BY THE BUILDING CODE. 9. SERVICE ACCESS DOORS SHALL BE PROVIDED FOR ALL FIXTURES, PIPE FITTINGS &
- EQUIPMENT WHERE REQUIRED FOR SERVICING. ALL FIRE DAMPERS SHALL BE ACCESSIBLE THROUGH RATED DUCT ACCESS DOORS. 10. ALL CEILING OR WALL SERVICE ACCESS DOORS SHALL MATCH CEILING & WALL FINISH. FINAL
- LOCATION TO BE COORDINATED ON SITE. 11. THERMOSTATS SHALL BE MOUNTED 5'-0" ABOVE FINISHED FLOOR LEVEL UNLESS OTHERWISE INDICATED.
- 12. ALL DUCT TAPS FOR FINAL RUNOUTS TO DIFFUSERS, GRILLES & CEILING CASSETTES/FAN COILS SHALL BE EQUIPPED WITH BALANCING DAMPERS.
- 13. ALL DUCT DIMENSIONS ARE CLEAR INSIDE. 14. ALL DOORS TO WASHROOMS, BATHROOMS & CHANGING ROOMS TO BE UNDERCUT 1/2" UNLESS OTHERWISE SPECIFIED.
- 15. FLEXIBLE DUCT TO BE INSTALLED AS TIGHT AND WITH AS FEW CURVES AS POSSIBLE. MAXIMUM LENGTH 6'-0", EXCEPT WHERE SHOWN AND NOTED.
- 16. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE STATED. 17. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL HVAC CONTROLS & CONTROL WIRING. ALL CONTROL WIRING SHALL BE RUN IN EMT OR PVC CONDUIT, AS APPROPRIATE.
- 18. ALL CONDUITS, POWER WIRING & ALL OTHER ASSOCIATED ELECTRICAL EQUIPMENT SHALL BE PROVIDED BY DIVISION 16. MECHANICAL CONTRACTOR SHALL ENSURE THAT ELECTRICAL CONTRACTOR INCLUDES FOR ALL ELECTRICAL ITEMS RELATED TO THE MECHANICAL INSTALLATION WHICH HAVE BEEN EXCLUDED FROM THE MECHANICAL SCOPE AND VERIFY ALL ELECTRICAL REQUIREMENTS PRIOR TO INSTALLATION.
- 19. DUCTWORK SHALL CONFORM TO THE FOLLOWING ASPECT RATIOS: A. RECTANGULAR DUCT: <3:1 B. RECT. W/INCREASED METAL THICKNESS: >3:1 AND <4:1
- C. SPIRAL OVAL DUCT: >4:1 20. INSTALL DUCT IN ACCORDANCE WITH INTERNATIONAL MECHANICAL CODE 2018. 21. INSTALL DUCT AND HYDRONIC PIPING INSULATION IN ACCORDANCE WITH INTERNATIONAL ENERGY CONSERVATION CODE 2018.
- 22. CONDENSATE DRAIN LOCATIONS TBD BY CONTRACTOR AND SHALL BE BY AIR-GAP INDIRECT CONNECTION TO NEAREST SUITABLE SANITARY OR GREY WATER DRAINAGE PIPES. ALL CONDENSATE DRAINS (INCLUDING IN CEILINGS & SHAFTS) SHALL BE INSULATED WITH AN APPROPRIATE THICKNESS OF INSULATING MATERIAL (≤ 1" - 1⁄2" ARMAFLEX; > 1" - 1" FIBREGLASS)
- 23. SLOT DIFFUSERS SHALL BE PROVIDED WITH EITHER FACTORY BUILT OR FIELD BUILT INSULATED PLENUMS TO ALLOW DUCT CONNECTION. 24. BORDERS, FRAMES, COLOURS & OTHER AESTHETIC FEATURES OF DIFFUSERS, GRILLES,
- REGISTERS, LOUVRES & OTHER AIR TERMINAL DEVICES SHALL BE APPROVED BY OWNER &/OR ARCHITECT. MECHANICAL CONTRACTOR SHALL PROVIDE DETAIL OF INSTALLATION METHOD AS PART OF PRODUCT SUBMITTAL. 25. ITEMS OF MATERIAL & EQUIPMENT NOT SPECIFICALLY NOTED ON THE DRAWINGS OR
- MENTIONED IN THE SPECIFICATIONS BUT WHICH ARE NECESSARY TO MAKE A COMPLETE & OPERATING INSTALLATION SHALL BE INCLUDED IN THE CONTRACTOR'S SCOPE OF WORKS. 26. CONTRACTOR TO PROVIDE SUBMITTALS FOR ALL MATERIALS, COMPONENTS AND
- EQUIPMENT FOR REVIEW WITHIN 2 WEEKS OF CONTRACT AWARD. 27. ALL PERFORMANCE REQUIREMENTS & PRODUCT SPECIFICATIONS MUST BE REVIEWED BY A FACTORY ENGINEER OR AUTHORIZED REPRESENTATIVE FOR CONFORMANCE WITH DESIGN PRIOR TO PURCHASE. QUESTIONS SHOULD BE SUBMITTED IN WRITING TO ONSITE ENGINEERING.
- 28. DUCT ELEVATIONS (TOD OR BOD) WHERE SHOWN ARE PROVIDED AS A GUIDE TO THE CONTRACTOR AS TO THE DUCT LAYOUT & SHALL NOT BE USED IN LIEU OF COORDINATION FOR MANUFACTURE. DUCT ELEVATIONS WHERE SHOWN ARE INCLUSIVE OF 2" INSULATION.
- 29. REFRIGERANT PIPING FOR MINI-SPLIT AIR CONDITIONING SYSTEMS SHALL BE CONCEALED IN WALLS & CEILINGS UNLESS OTHERWISE INDICATED ON DRAWINGS. 30. ALL MATERIALS EXPOSED WITHIN ANY PLENUM SPACE SHALL BE NON COMBUSTIBLE OR SHALL HAVE A FLAME SPREAD RATING OF NOT MORE THAN 25 AND A SMOKE DEVELOPMENT
- RATING OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E84. 31. ALL DUCTS, PIPEWORK, VALVES, DAMPERS, EQUIPMENT AND OTHER ACCESSORIES SHALL BE LABELLED AS TO THEIR USE WITH DIRECTIONAL ARROWS (IF SUITABLE) WITH PLASTIC TAGS OR ADHESIVE STICKERS.
- 32. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL UNIT LOCATIONS AND REQUIRED OPENINGS FOR DUCTWORK, PIPING & RETURN AIR PLENUMS BASED ON THE AS BUILT CONDITIONS OF THE SITE. GC SHALL PROVIDE SUCH OPENINGS AS REQUIRED.

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2	TENDER	25 JAN 23
1	CLIENT REVIEW	29 APR 22



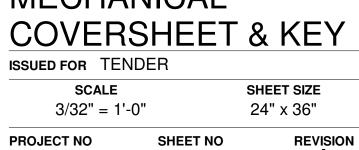
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APPROVED BY JR

PROJECT NAME **RBR BATHROOM** RENOVATION

WARWICK CAMP 1 SOUTH ROAD, WARWICK SHEET TITLE MECHANICAL

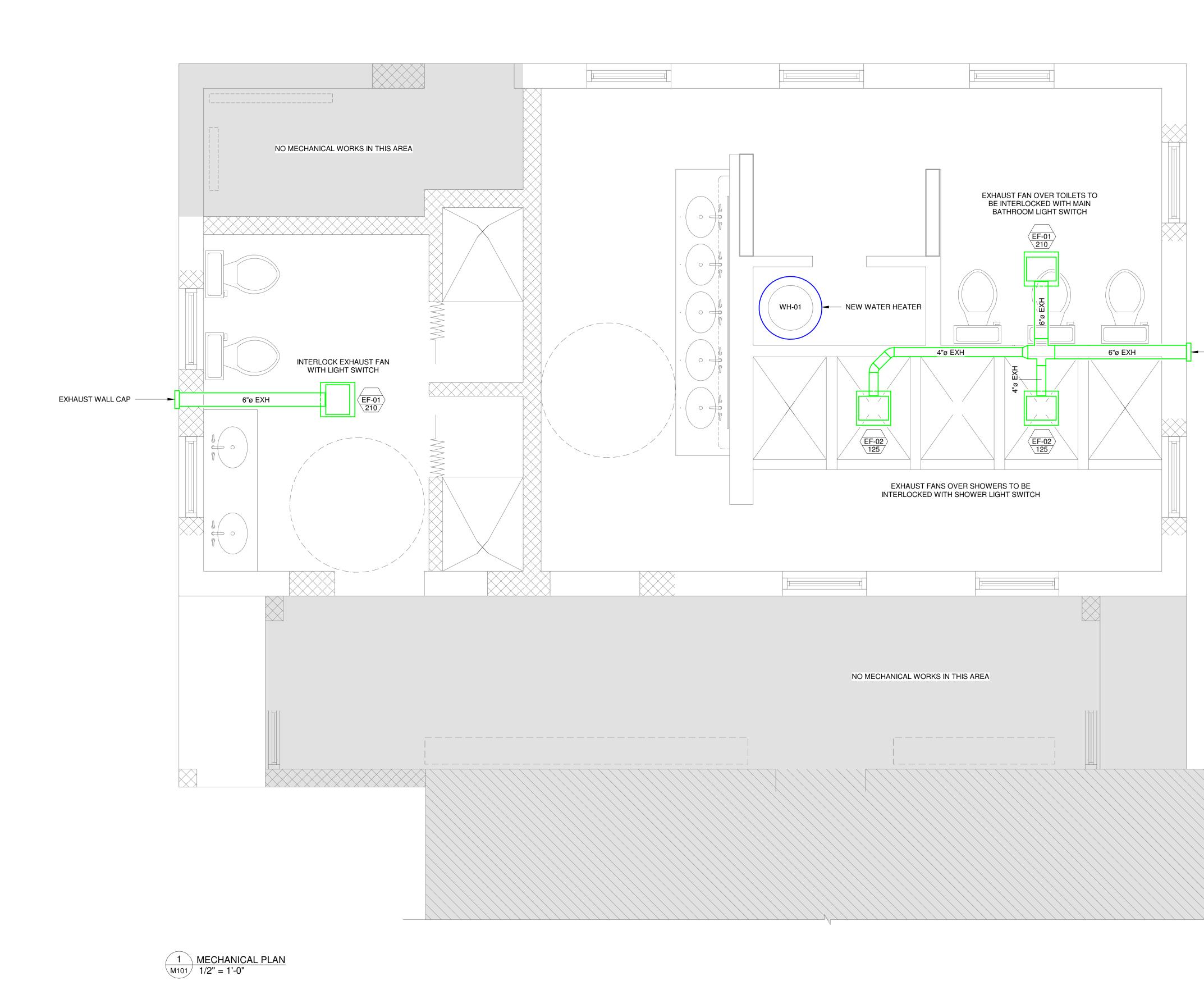


22042

M001

1. ALL WORKS TO BE PERFORMED IN ACCORDANCE WITH THE LOCAL CODES IN FORCE.

6. THESE DRAWINGS ARE BASED ON CURRENT KNOWLEDGE & PROPER COORDINATION BY THE



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— EXHAUST WALL CAP

NOT FOR CONSTRUCTION

2	TENDER	25 JAN 23
1	CLIENT REVIEW	29 APR 22
L		



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 PREPARED BY
 CHECKED BY
 APPROVED BY

 JR
 JR
 JR

 PROJECT NAME
 JR
 JR

RBR BATHROOM RENOVATION

WARWICK CAMP 1 SOUTH ROAD, WARWICK SHEET TITLE MECHANICAL PLAN

ISSUED FOR TENI	DER			
SCALE		SHEET SIZE		
1/2" = 1'-0		24" x 36"		
PROJECT NO	SHEET NO	REVISION		
22042	M101	/2		

22042 RBR BATHROOM RENOVATION PLUMBING COVERSHEET & KEY

PLUMBING CO PLUMBING FI **DWV PLUMBI** SUPPLY PLU PLUMBING D

SYMBOL	ABBR.	MEANING	SYMBOL	ABBR.	MEANING	ABBR.	MEANING
RWL	RWL	RAIN WATER LEADER ABOVE FLOOR LEVEL			VALVE IN RISER	WH	WATER HEATER
RWL	RWL	RAIN WATER LEADER BELOW FLOOR LEVEL				PT	PRESSURE TANK
GWL	GWL	GREY WATER LEADER ABOVE FLOOR LEVEL			SOLENOID VALVE	CI	CAST IRON
GWL	GWL	GREY WATER LEADER BELOW FLOOR LEVEL			WYE STRAINER	CU	COPPER
S	S	BATHROOM SOILED WASTE ABOVE FLOOR LEVEL	·		WIESTRAINER	FD	FLOOR DRAIN
S	S	BATHROOM SOILED WASTE BELOW FLOOR LEVEL	<u> </u>		VACUUM BREAKER	FS	FLOOR SINK
W	W	WASTE DRAINAGE ABOVE FLOOR LEVEL	∠&		REGULATOR	FT	FLOOR TROUGH
—————————————————————	W	WASTE DRAINAGE BELOW FLOOR LEVEL	<u></u>		WATER HAMMER ARRESTOR	RD	ROOF DRAIN
VV	V	VENT PIPE			PIPE TURNING DOWN	AD	AREA DRAIN
C	С	DOMESTIC COLD WATER SUPPLY	·0		PIPE TURNING UP	IRR	IRRIGATION
FC	FC	FILTERED COLD WATER SUPPLY	×		POOL DIRECTIONAL RETURN	DN.	DOWN
н	Н	DOMESTIC HOT WATER SUPPLY	·		VACUUM CONNECTION	CD	CONDENSATE DRAIN
HWR	HWR	DOMESTIC HOT WATER RETURN		HB	HOSE BIB	FV&S	FOOT VALVE AND STRAINER
IRR	IRR	IRRIGATION LINE			END CAP	A/C	AIR CONDITIONER
SUC	SUC	FRESH WATER SUCTION LINE	Č		ANTI VORTEX DRAIN	D/W	DISHWASHER
GG	G	GAS				NC	NORMALLY CLOSED
F	F	FIRE PROTECTION	<u> </u>			FR.	FROM
	PR	POOL RETURN			FLOOR RETURN	WV	WET VENT
PS	PS	POOL SUPPLY			VENT PIPE	VTR	VENT THROUGH ROOF
GW	GW	GREY WATER LINE (NON-POTABLE)	A		PLUMBING FIXTURE TAG	TLD	TO LATER DETAIL
	RE	RECLAIM WATER LINE (NON-POTABLE)	A		FLOWIDING FIXTORE TAG	UF/UG	UNDER FLOOR/UNDER GROUND
		CONTROL WIRE	\frown			AF/AG	ABOVE FLOOR/ABOVE GROUND
<u> </u>		EXISTING PIPE TO BE REMOVED	В		CATCHBASIN TAG	USS	UNDER SIDE OF SLAB, STEEL, OR ROOF
	CO	CLEANOUT			ROADWAY CATCHBASIN	AFG	ABOVE FINISHED GRADE
) CO	CO	CLEANOUT TO GRADE			RUADWAY CATCHBASIN	CTE	CONNECT TO EXISITING
	COAC	CLEANOUT WITH ACCESS COVER		NALL		NTS	NOT TO SCALE
۲		P-TRAP	Н	MH	HYDRANT	BWW	BERMUDA WATERWORKS
<u>، المحمد المحم</u>	GW	RUNNING TRAP AND VENT	MH		MANHOLE	TBD	TO BE DETERMINED
·		SHUT-OFF VALVE	WH .		WANHULE	FFD	FUNNEL FLOOR DRAIN
بر		BALANCING COCK	\square			PD	PORCH DRAIN
→ → → → → → → → → → → → → → → → → → →		CHECK VALVE/BACKFLOW VALVE	\bigcirc		PUMP (SCHEMATIC)	WF	WATER FILTER
		THREE-WAY VALVE					
······································		REDUCER/ENLARGER	Н		WATER METER		
		· · · · · · · · · · · · · · · · · · ·		· ·			

SHEET INDEX	
OVERSHEET & KEY	P001
LOOR PLAN - DEMO	P101
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IMBING	P103
ETAILS & SCHEDULES	P201

PLUMBING SCHEDULE

GENERAL NOTES (PLUMBING): 1. ALL WORKS TO BE PERFORMED IN ACCORDANCE WITH THE LOCAL CODES

- IN FORCE. 2. ALL EQUIPMENT AND MATERIALS SHALL BE NEW. 3. ALL INSTALLATION OF PIPE, FIXTURES & EQUIPMENT SHALL BE AS PER THE MANUFACTURER'S RECOMMENDED INSTALLATION PRACTICE. 4. THESE DRAWINGS ARE BASED ON CURRENT KNOWLEDGE. PROPER
- COORDINATION BY THE CONTRACTOR WITH ALL OTHER TRADES ON SITE IS REQUIRED TO ENSURE COMPATABILITY WITH SITE CONDITIONS. 5. SERVICE ACCESS DOORS SHALL BE PROVIDED FOR ALL FIXTURES, PIPE
- FITTINGS & EQUIPMENT WHERE REQUIRED FOR SERVICING. ALL CEILING OR WALL SERVICE ACCESS DOORS SHALL MATCH CEILING & WALL FINISH. FINAL LOCATION TO BE COORDINATED ON SITE.
- 7. PROVIDE & INSTALL SHUT-OFF VALVES FOR ALL FIXTURES INSTALLATION. REFER TO PLUMBING SCHEDULES FOR ALL FIXTURE LINE SIZES AND
- CONNECTIONS. 8. PROVIDE & INSTALL SHUT-OFF VALVES & UNIONS FOR ALL EQUIPMENT
- (PUMPS, PRESSURE TANKS, WATER HEATERS ETC.) INSTALLATION. 9. ALL DEWATERING OF PIPE TRENCHES FOR INSTALLATION OF PIPING BY
- GENERAL CONTRACTOR. TRENCH TO BE KEPT DRY UNTIL INSPECTION & BACKFILLING IS COMPLETE. 10. INSULATION:
- A. DOMESTIC HOT WATER 1/2" FIBREGLASS OR ARMAFLEX B. HOT WATER RETURN - 1/2" FIBREGLASS OR ARMAFLEX C. HORIZONTAL GREY & RAIN WATER PIPE & ALL EXPOSED (CEILING & SHAFT) CONDENSATE PIPE - 1" FIBREGLASS D. STEAM PIPE - 2" FIBREGLASS
- 11. INSULATION SHALL BE CONTINUOUS AND THE VAPOUR BARRIER SHALL BE PRESERVED AT ALL HANGARS, JOINTS, FITTINGS & EQUIPMENT. HANGARS SHALL BE OVERSIZED AS REQUIRED TO ACCOUNT FOR INSULATION
- 12. PIPE MATERIALS: A. COLD WATER SUPPLY - NPS SCH 40 PVC OR UPONOR CTS SDR9 PEX **PIPE & FITTINGS**
- B. DOMESTIC HOT WATER NPS SCH 80 CPVC OR UPONOR CTS SDR9 PEX **PIPE & FITTINGS** C. HOT WATER RETURN - NPS SCH 80 CPVC OR UPONOR CTS SDR9 PEX
- **PIPE & FITTINGS** D. DRAINS & VENTS - NPS SCH 40 PVC PIPE WITH PVC DRAINAGE (DWV)
- FITTINGS E. SEWER & STORM - NPS SDR35 PVC GASKETED PIPE & FITTINGS\
- F. GAS (OUTSIDE) NPS SDR11 POLYETHYLENE PLASTIC GAS PIPE SUITABLE FOR UNDERGROUND BURIAL. MANUFACTURED IN ACCORDANCE WITH ASTM D 2513.
- G. GAS (INSIDE) CTS TYPE L COPPER TUBING (OR ACR) ALL JOINTS TO BE EXPOSED PER CODE REQUIREMENTS. BELOW GRADE COPPER TO BE PLACED IN YELLOW FLEX CONDUIT.
- H. FUEL PIPING DOUBLE WALLED PLASTIC FUEL PIPE. PIPE SHALL BE PLACED IN PROTECTIVE SLEEVE FOR BURIAL. 13. PIPE & FITTINGS WITHIN 6" OF DOMESTIC WATER PUMPS SHALL BE SCH 40
- GALVANIZED WITH THREADED FITTINGS. 14. ALL JOINT THREADS SHALL BE SEALED WITH PTFE TAPE OR OTHER
- APPROPRIATE PIPE THREAD SEALANT. 15. ALL PVC TO METAL PIPE JOINTS SHALL BE MPT PVC TO FPT METAL FITTING. 16. CLEANOUTS SHALL BE INSTALLED IN ALL PIPES DRAINING UNDER GRAVITY
- INSTALLED AT EACH 90° BEND IN PIPE, AT THE TOP AND BOTTOMS OF RISERS AND AT A MAXIMUM INTERVAL OF 50 FEET. 17. ALL DRAINAGE, VENT, RAINWATER & GREY WATER PIPING SHALL HAVE A
- MINIMUM SLOPE (UNLESS NOTED) OF: A. LESS THAN 3" DIAMETER: 1/4"PER FOOT.
- B. 3" OR MORE DIAMETER: 1/8"PER FOOT. 18. ALL CONDUITS, WIRING AND ALL OTHER ASSOCIATED ELECTRICAL EQUIPMENT REQUIRED FOR A COMPLETE WORKING SYSTEM SHALL BE PROVIDED.
- 19. ALL RELATED CIVIL WORKS SHALL BE PROVIDED BY CIVIL TRADES. MECHANICAL CONTRACTOR SHALL ENSURE THAT GENERAL CONTRACTOR INCLUDES FOR ALL CIVIL WORKS RELATED TO THE MECHANICAL INSTALLATION WHICH HAVE BEEN EXCLUDED FROM THE MECHANICAL SCOPE AND VERIFY ALL CIVIL REQUIREMENTS PRIOR TO INSTALLATION.
- 20. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE STATED 21. ALL FLOOR DRAINS SHALL BE PROVIDED WITH TRAP PRIMERS UNLESS INDICATED OTHERWISE.
- 22. PENETRATIONS THROUGH FIRE RATED PARTITIONS (INCLUDING FLOOR SLABS SHALL BE TREATED WITH APPROPRIATE FIRE STOPPING MEASURES AS REQUIRED BY THE BUILDING CODE. 23. PIPE ENDS SHALL BE CUT SQUARE AND DEBURRED INSIDE & OUTSIDE
- BEFORE BEING FITTED. 24. ITEMS OF MATERIAL & EQUIPMENT NOT SPECIFICALLY NOTED ON THE DRAWINGS OR MENTIONED IN THE SPECIFICATIONS BUT WHICH ARE NECESSARY TO MAKE A COMPLETE & OPERATING INSTALLATION SHALL BE
- INCLUDED IN THE CONTRACTOR'S SCOPE OF WORKS. 25. CONTRACTOR TO PROVIDE SUBMITTALS FOR ALL FIXTURES, MATERIALS, COMPONENTS AND EQUIPMENT TO ENGINEER AND ARCHITECT FOR REVIEW AFTER CONTRACT AWARD.

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2 TENDER 25 JAN 23 1 CLIENT REVIEW 29 APR 22



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RBR BATHROOM RENOVATION

WARWICK CAMP 1 SOUTH ROAD, WARWICK SHEET TITLE PLUMBING **COVERSHEET & KEY**

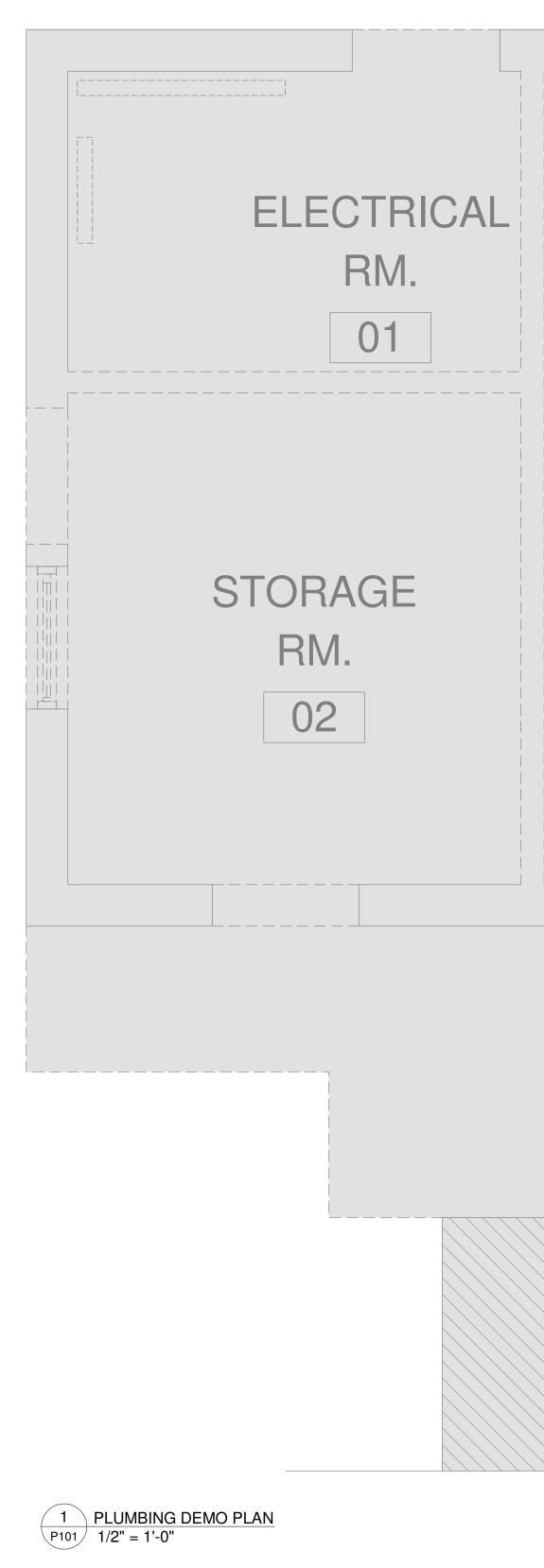
ISSUED FOR TENDER SCALE 3/32" = 1'-0" PROJECT NO SHEET NO

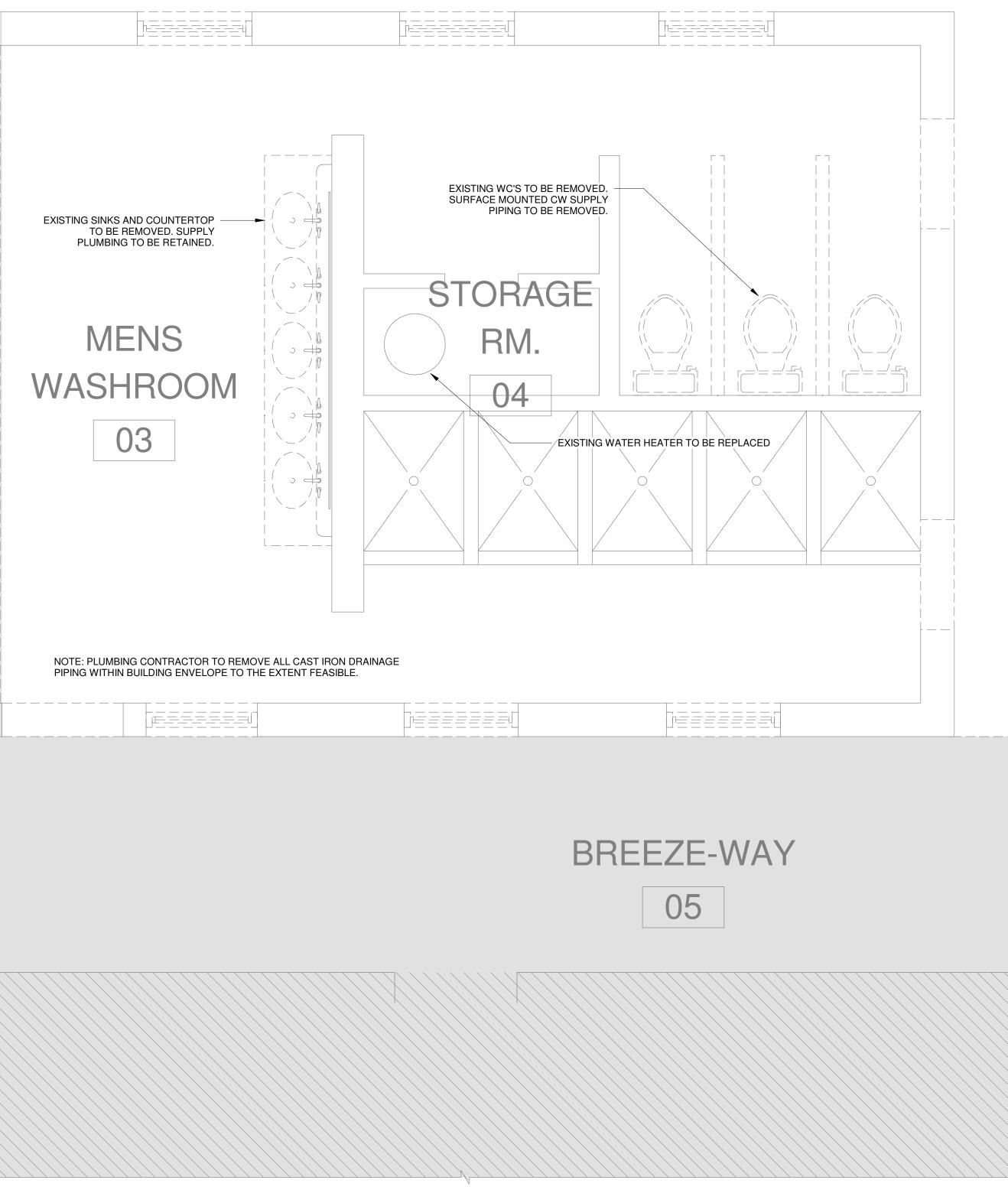
SHEET SIZE 24" x 36" REVISION

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22042

P00





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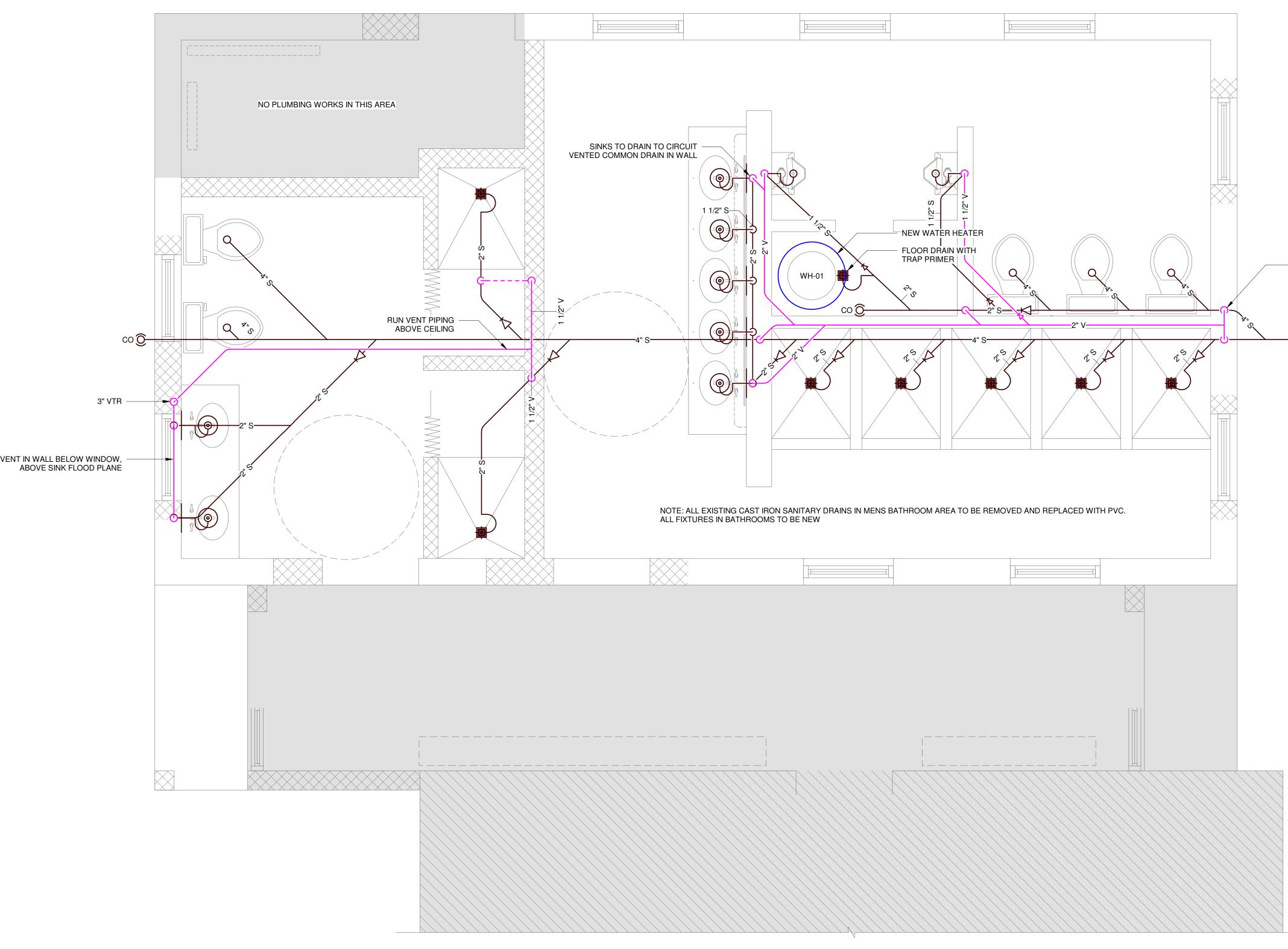
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RBR BATHROOM RENOVATION

WARWICK CAMP 1 SOUTH ROAD, WARWICK SHEET TITLE PLUMBING FLOOR PLAN - DEMO ISSUED FOR TENDER

SCALE SHEET SIZE 24" x 36" 1/2" = 1'-0" PROJECT NO SHEET NO REVISION 2P101 22042



1 DWV PLUMBING PLAN P102 1/2" = 1'-0"

RUN VENT IN WALL BELOW WINDOW,

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- 3" VTR

CONNECT TO EXISTING

BUILDING DRAIN IN THIS APPROX. LOCATION

NOT FOR CONSTRUCTION

TENDER	25 JAN 23
CLIENT REVIEW	29 APR 22
	TENDER CLIENT REVIEW

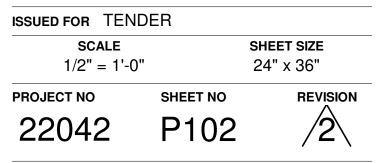


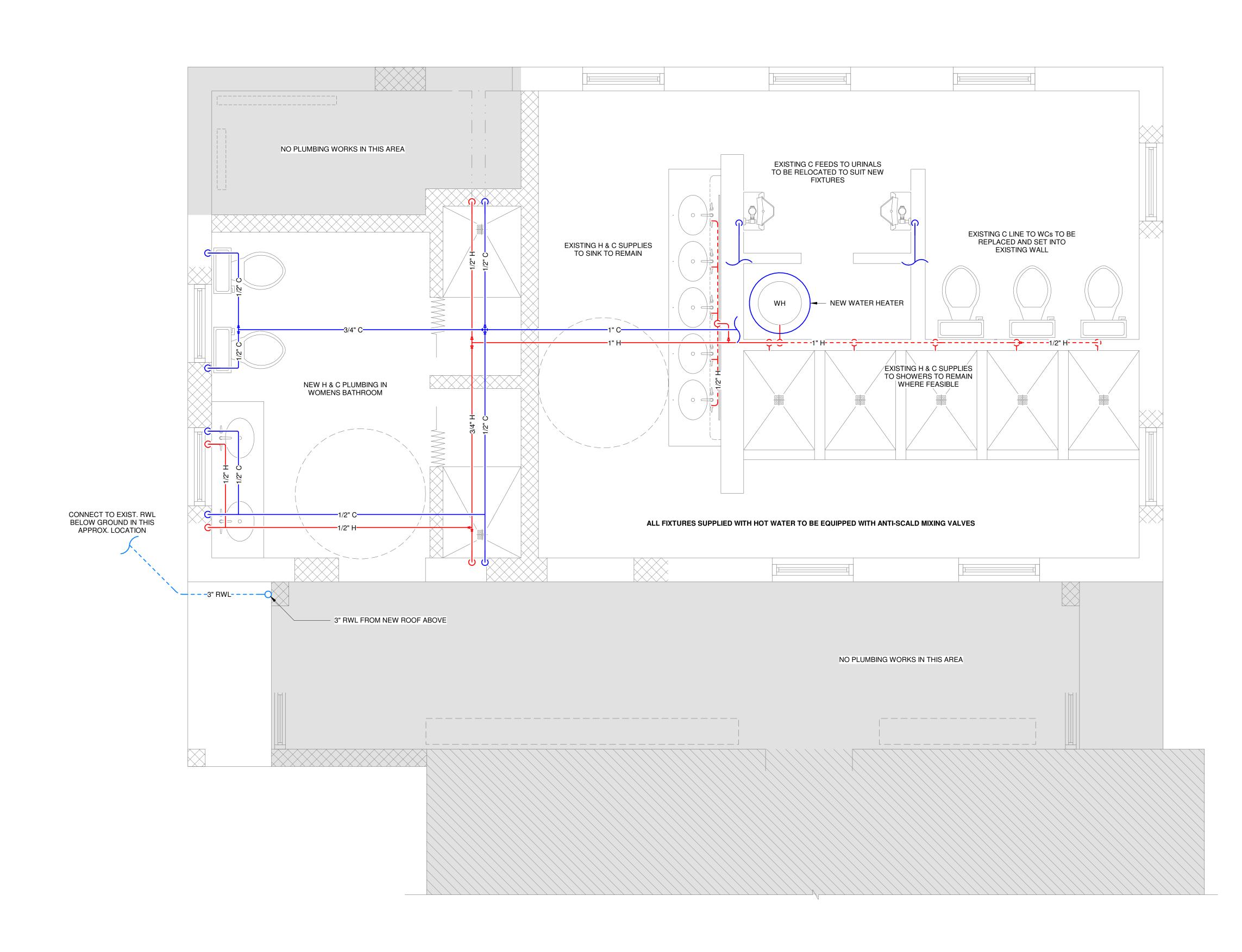
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RBR BATHROOM RENOVATION

WARWICK CAMP 1 SOUTH ROAD, WARWICK SHEET TITLE DWV PLUMBING





1 SUPPLY PLUMBING & MECHANICAL PLAN P103 1/2" = 1'-0"

NOTE: EXISTING SUPPLY PLUMBING WITHIN BUILDING TO BE EXTENDED AS REQUIRED FOR NEW FIXTURES AND WOMEN'S BATHROOM. EXISTING SURFACE MOUNTED SUPPLY PIPING TO BE REMOVED AND REPLACED WITH PIPING RUN IN WALL. COLD WATER SUPPLY TO BUILDING PRESUMED TO BE SUFFICIENT; CONTRACTOR TO TRACE CW SUPPLY LINE BACK TO PUMP ROOM AND VERIFY CONDITION OF PIPING. ALL FIXTURES SUPPLIED WITH HOT WATER TO BE EQUIPPED WITH ANTI-SCALD MIXING VALVES.

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2	TENDER	25 JAN 23
1	CLIENT REVIEW	29 APR 22



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JR

RBR BATHROOM

RENOVATION

WARWICK CAMP



ISSUED FOR TENDER SHEET SIZE SCALE 24" x 36" 1/2" = 1'-0" SHEET NO

1 SOUTH ROAD, WARWICK

SUPPLY PLUMBING

PROJECT NO 22042

PREPARED BY

PROJECT NAME

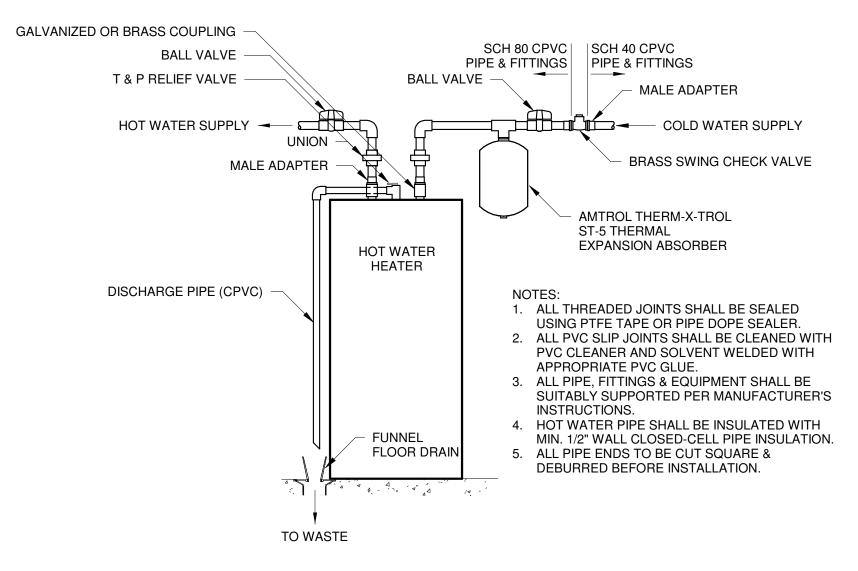
SHEET TITLE

JR

REVISION /2 P103

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JR



1 HOT WATER HEATER DETAIL P201 3/4" = 1'-0"

BATHROOM EXHAUST FAN SCHEDULE									
MARK	MANUFACTURER	MODEL	AIR FLOW (CFM)	VOLTS/PHASE/HZ	LOCATION	FEATURES	COMMENTS		
EF-01	GREENHECK	SP-A190-QD	210	120/1/60	SEE SHEET M101	BACKDRAFT DAMPER	TOTAL OF 2 (TWO). OR SIMILAR APPROVED		
EF-02	GREENHECK	SP-A90-QD	125	120/1/60	SEE SHEET M101	BACKDRAFT DAMPER	TOTAL OF 2 (TWO). OR SIMILAR APPROVED		

	WATER HEATER SCHEDULE											
MARK	MANUFACTURER	MODEL	SERVICE	LOCATION	TANK SIZE (US GAL)	HOT WATER TEMPERATURE (F)	RECOVERY TIME (MIN.)	ELEMENT POWER (kW)	NUMBER OF ELEMENTS	VOLTS/PHASE/HZ	CURRENT (AMPS)	COMMENTS
WH-01	AO SMITH	DRE-120-12	MENS & WOMENS BATHROOMS	WATER HEATER/STORAGE CLOSET	120	140	30	4.1 x 3	3	240/1/60	51	OR SIMILAR APPROVED.

	WATER PUMP SCHEDULE										
MAR		LOCATION	MOTOR POWER (HP)	FLOW RATE (USGPM)	DISCHARGE PRESSURE (PSIG)	MAX. NPSH (PSIG)	MOTOR SPEED (RPM)	VOLTS/PHASE /HZ	MANUFACTURER	MODEL	COMMENTS
P-01	MENS & WOMENS BATHROOMS	PUMP ROOM	0.75	22.5	-	-	3600	115-230/1/60	MYERS	CTJ07	REPLACE EXISTING PUMP WITH MODEL SPECIFIED OR SIMILAR APPROVED

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NOT FOR CONSTRUCTION

2	TENDER	25 JAN 23
1	CLIENT REVIEW	29 APR 22



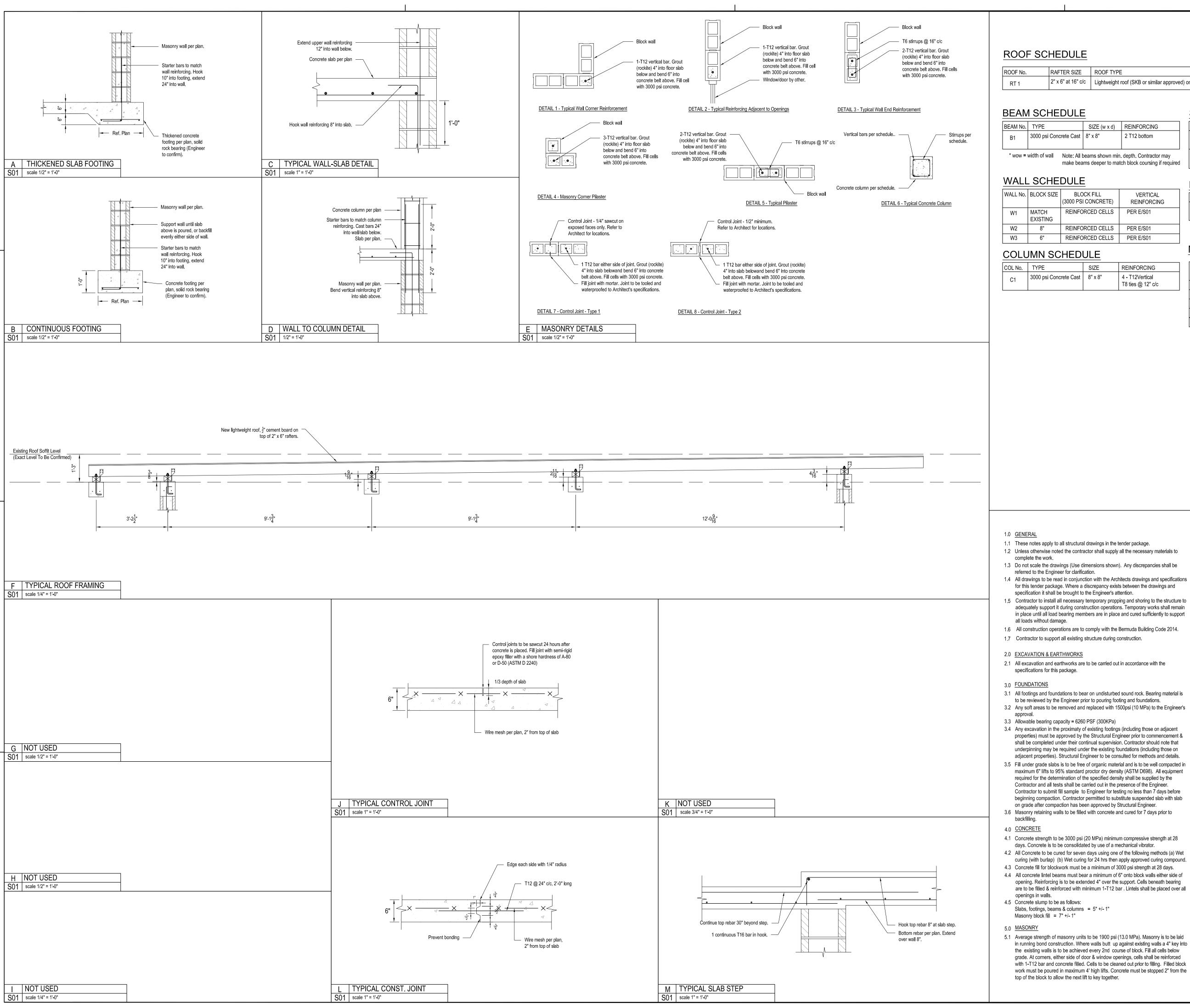
ONSITE ENGINEERING SERVICES LTD. Location: 27 Jubilee Rd. Devonshire DV06 Mail: P.O. Box HM 2170, Hamilton HMJX, Bermuda

Tel: 441-297-0592 | Fax: 441-295-1988 | Email: info@onsite.bm PREPARED BY CHECKED BY APPROVED BY JR JR JR

PROJECT NAME **RBR BATHROOM** RENOVATION

WARWICK CAMP 1 SOUTH ROAD, WARWICK SHEET TITLE PLUMBING DETAILS & SCHEDULES ISSUED FOR TENDER

SCALE SHEET SIZE 24" x 36" 3/4" = 1'-0" PROJECT NO SHEET NO REVISION 222042 P201



ROOF TYPE	HURRICANE CLIPS
Lightweight roof (SKB or similar approved) on 1/2" cement board.	H2.5 Simpson Strong @ ea. rafter connection.

SLAB SCHEDULE

SLAB No.	TYPE	DEPTH	CONCRETE	MAIN REINFORCING
S1	Slab on Grade	6"	3000 psi	A142 Mesh - 2" top cover
S2	Plyform Cast Concrete	6"	3000 psi	T12 @ 10" c/c each way bottom

FOOTING SCHEDULE

FTG No.	TYPE	SIZE (W x D)	REINFORCING
CF1	3000 psi Concrete Strip Footing	24" x 12"	3 T12 continuous T12 @ 24" c/c transverse

MAX. SPACING OF CONTROL JOINTS

SLAB THICKNESS	AGGREGATE SIZE < 20mm	AGGREGATE SIZE > or = 20mm
4"	8 ft	10 ft
5"	10 ft	13 ft
6"	12 ft	15 ft
7"	14 ft	17 ft
8"	16 ft	20 ft

1. Concrete slump 100mm to 150mm 2. Joints to be cut in all slabs 8 to 16 hours after concrete pour.

> O STRUCTURAL SCHEDULES S01 NTS

2 T12 bottom

VERTICAL

REINFORCING

PER E/S01

PER E/S01

PER E/S01

REINFORCING

4 - T12Vertical

T8 ties @ 12" c/c

adequately support it during construction operations. Temporary works shall remain in place until all load bearing members are in place and cured sufficiently to support

properties) must be approved by the Structural Engineer prior to commencement & shall be completed under their continual supervision. Contractor should note that underpinning may be required under the existing foundations (including those on adjacent properties). Structural Engineer to be consulted for methods and details. maximum 6" lifts to 95% standard proctor dry density (ASTM D698). All equipment Contractor to submit fill sample to Engineer for testing no less than 7 days before beginning compaction. Contractor permitted to substitute suspended slab with slab

curing (with burlap) (b) Wet curing for 24 hrs then apply approved curing compound. opening. Reinforcing is to be extended 4" over the support. Cells beneath bearing

in running bond construction. Where walls butt up against existing walls a 4" key into 10.2 Allow 10 working days for review of shop drawings. the existing walls is to be achieved every 2nd course of block. Fill all cells below grade. At corners, either side of door & window openings, cells shall be reinforced with 1-T12 bar and concrete filled. Cells to be cleaned out prior to filling. Filled block work must be poured in maximum 4' high lifts. Concrete must be stopped 2" from the

6.0 REINFORCING STEEL

- 6.1 Reinforcing steel is to be galvanized and of minimum yield strength of 60 ksi. Tie wire is to be galvanized.
- 6.2 Minimum cover to reinforcing steel is to be as follows: Cast against earth or water 3" Exterior 2" Elsewhere unless noted otherwise 1.5"
- 6.3 Reinforcing steel in concrete and masonry shall be lapped as per Table below. Lap bars over supports only except for cantilever steel. T8 rebars Minimum 16"

T10 rebars Minimum 20" T12 rebars Minimum 24" T16 rebars Minimum 32" Mesh: One Square

7.0 STRUCTURAL STEEL

- 7.1 Structural steel shall be a minimum 50 ksi steel. One coat of primer is to be applied and damaged areas are to be touched up on site. Beams are to bear a minimum of 6" onto bearing pads. No splicing of beams or holes to be placed in beams without approval of the engineer.
- 7.2 Bearing pads for steel beams to be a minimum of 16" long x WOW wide x 8" deep with 2-T12 bars. Fill and reinforce with 1-T12 all block cells below bearing pad down to slab level. Encase ends of beams in concrete after installation. Anchor beams to bearing pads with 2 x 1/2" diameter x 10" long grade A36 J bolts each end. J bolts to have 3" hook at ends and be cast into concrete pads.
- 7.3 All beam connection bolts to be grade A325 High Strength galvanized bolts.
- 7.4 All steel to be welded is to be cleaned down to bare metal prior to welding and primed after
- 7.5 All holes in steel work are to be drilled. Gas cutting is not permitted. No splicing of beams or holes through beams is to take place without the approval of the engineer.
- 7.6 Metal decking shall be 2" x 20 gauge Epicore, Multidek 50-V2 or Versadek(or approved equivalent). It shall be galvanized to a minimum grade of G90. Decking to be propped as per manufacturer's specifiactions and props are to carry loads down to grade level. Leave props in place for a minimum of 14 days. Decking is to bear a minimum of 2" onto blockwalls and steel beams and 4" onto stone walls. Metal decking to be welded to steel beams at 12" c/c and all welds to be touched up with cold galvanizing paint.
- 8.0 STRUCTURAL TIMBER
- 8.1 Timber framing shall be a minimum of No. 2 grade Southern Yellow (Pitch) Pine unless noted otherwise. All nails, bolts, washers, hurricane clips, anchors and other hardware shall be hot dip galvanized unless noted otherwise. All exterior timber and that which is in contact with concrete, blockwork or stone shall be wolmanized to minimum standard of 0.25 bs/cu.ft CCA.
- 9.0 INSPECTIONS
- 9.1 Contractor to provide 24 hours notice for the inspection of all reinforcing, including masonry reinforcing, prior to placement of concrete.
- 10.0 SHOP DRAWINGS AND SUBMITTALS
- 10.1 Review of the drawings by the Engineer is to verify conformance with the general design details and does not cover approval of detailed designs and connections. further, the review does not relieve the Contractor of the responsibility for ensuring that the work is carried out in accordance with the structural drawings.

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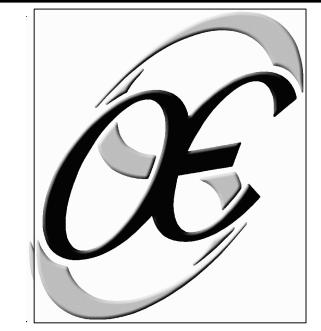
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GENERAL NOTES:

2	PERMIT	29/APRIL/22
1	PERMIT	22/APRIL/22



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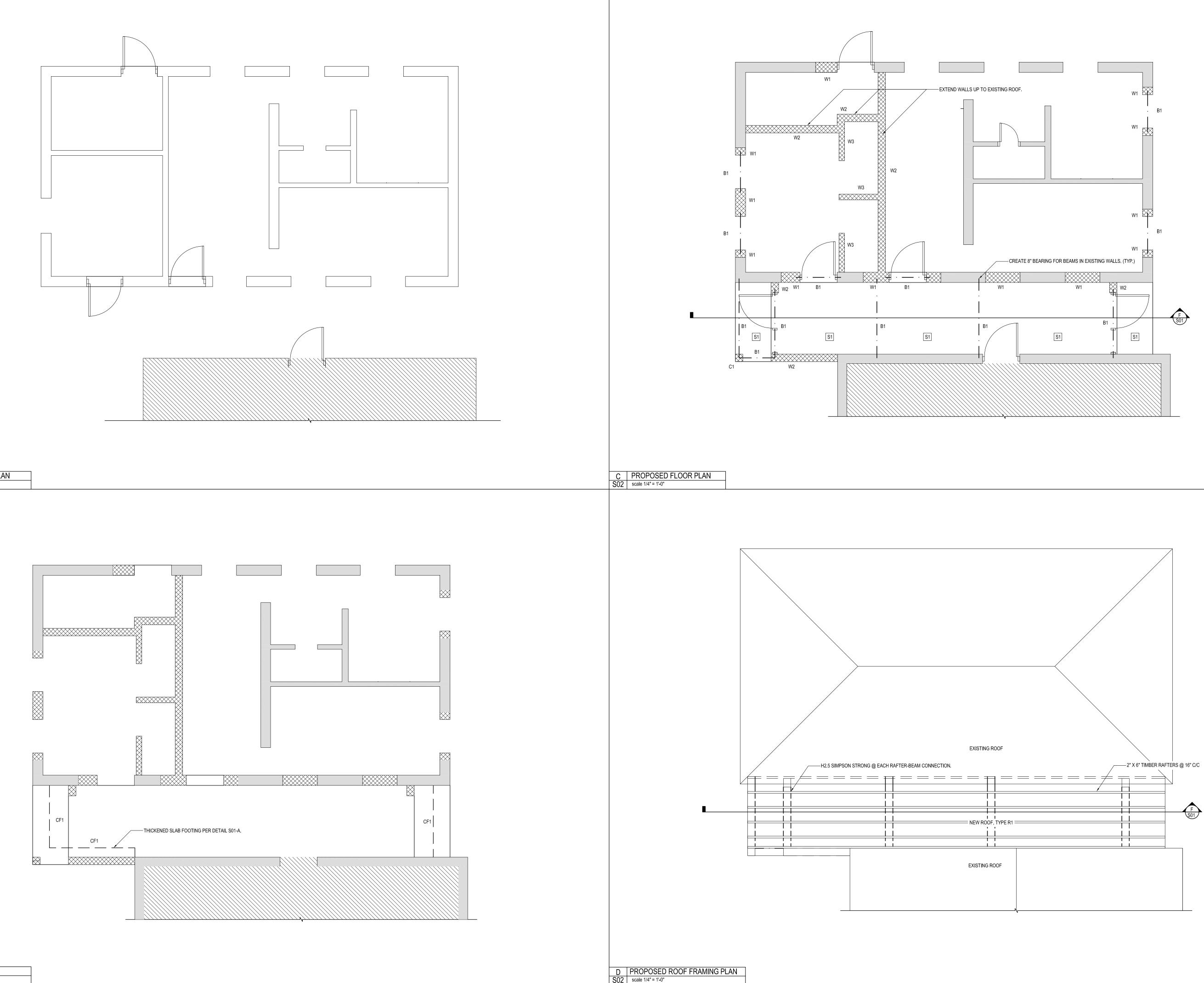
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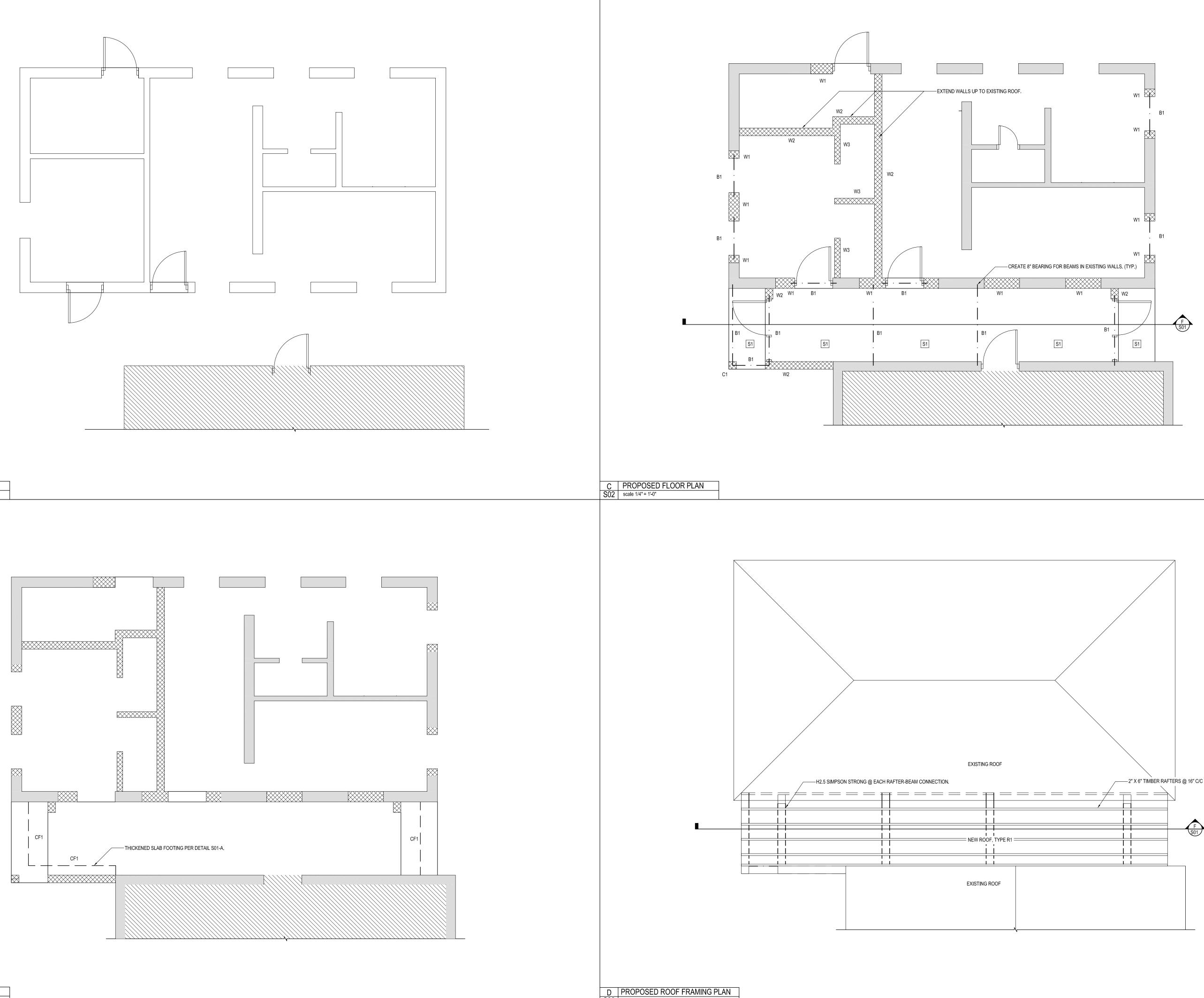
PREPARED BY	CHECKED BY	APPROVED BY			
JC	DA	DA			
PROJECT NAME					
RBR BAT	HROOM				
RENOVA	RENOVATION				
WARWICK	CAMP				
SOUTH ROA	AD				
WARWICK					
SHEET TITLE					
STRUCTURAL: SCHEDULES					
NOTES &	DETAILS)			
ISSUED FOR PE	RMIT	29/APRIL/22			
SCALE	S	SHEET SIZE			

SCALE AS SHOWN		SIZE x 36"
ROJECT NO	SHEET NO	REVISION
2042	S 01	Â

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P STRUCTURAL NOTES S01 NTS





A EXISTING FLOOR PLAN S02 scale 1/4" = 1'-0"

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PREPARED BY JC	CHECKED BY DA	APPROVED DA	ΒY
PROJECT NAME			
RBR BAT RENOVA			
WARWICK SOUTH RO WARWICK			
SHEET TITLE			
PLANS			
ISSUED FOR PE	ERMIT	29/APRIL	_/22
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22042	S02	Â	\