

ABBREVIATIONS

AC acoustical	GB grab bar	RM room
ACM acoustical mylar	GPBD gypsum board	RB rubber base
AFF above finished floor	HBD hardboard	SLR sealer
AGG aggregate	HDW hardware	SEC section
AL aluminum	HWD hardwood	SHT sheet
BLK block	HT height	SIM similar
BD board	HCW hollow core wood	SCW solid core wood
BRK brick	HM hollow metal	SB splash block
BRZ bronze	INCL include (d), (ing)	SPEC specification (s)
CPT carpet (ed)	INT interior	SS stainless steel
CK caulk (ing)	JT joint	ST stain
CLG ceiling	KIT kitchen	STL steel
CER ceramic	LAM laminate (d)	STN stone
CLR coloring	MTL material (s)	STUC stucco
CT ceramic tile	MES metal edge strip	SYM symmetry (ical)
C concrete	MET metal	SYN synthetic
CMU concrete masonry unit	MISC miscellaneous	TZ terrazzo
CONT continuous or continue	MR moisture resistant	THK thick (ness)
DS downspout	NIC not in contract	THR threshold
DTL detail	NTS not to scale	T&G tongue & groove
DNG drawing	O oil	TXP textured paint
DF drinking fountain	OC on center (s)	TYP typical
ELEC electric (al)	OPP opposite	UNF unfinished
EP epoxy paint	OH overhead	VIN vinyl
EQ equal	P paint (ed)	VCT vinyl composite tile
EWH electric water heater	PNL paneling	WVC vinyl wall covering
EXP exposed	PBD particle board	WSCW wainscot
EXT exterior	PVMT pavement	WRGB water-resistant gyp bd
FAC factory applied finish	PL plaster	W wax
FIN finish (ed)	PLAS plastic	WIN window
FLR floor (ing)	PLAM plastic laminate	WG wired glass
FBO furnished by others	PWD plywood	WD wood
GA gauge	QT quarry tile	
GALV galvanized	REF refrigerator	
GL glass, glazing		

BUILDING CODES

International Building Code (IBC), 2012 edition
 International Mechanical Code (IMC), 2012 edition
 International Plumbing Code (IPC), 2012 edition
 ADA Standards for Accessible Design, 2010 edition

CODE INFORMATION

OCCUPANCY CLASSIFICATION - IBC SECTION 304 - BUSINESS GROUP B (LESS THAN 50 OCCUPANTS)
 OCCUPANT LOAD - IBC TABLE 1004.1.2 BUSINESS, 100 SF GROSS PER OCCUPANT / ACCESSORY EQUIPMENT / STORAGE 300 SF GROSS PER OCCUPANT
 ALLOWABLE HEIGHT/AREA - IBC TABLE 503 - HEIGHT = 40', ALLOWABLE AREA BUSINESS = 9,000
 CONSTRUCTION TYPE - IBC TABLE 602.3 TYPE VB
 EXIT ACCESS TRAVEL DISTANCE - IBC TABLE 1016.1 - MAXIMUM TRAVEL DISTANCE FOR NON-SPRINKLED = 200'
 EGRESS WIDTH PER OCCUPANT SERVED - IBC TABLE 1005.3.2 = STAIRWAYS 0.3' / OTHER 0.2' PER OCCUPANT

BUILDING DATA

BUILDING ADDITION: 253 SF AT 300 SF PER OCCUPANT = 1 OCCUPANT
 EXISTING BUILDING FIRST FLOOR: 439 SF PER OCCUPANT AT 100 SF PER OCCUPANT = 5 OCCUPANTS
 EXISTING BUILDING SECOND FLOOR: 439 SF AT 300 SF PER OCCUPANT = 2 OCCUPANTS
 TOTAL BUILDING: 1,130.5 SF TOTAL WITH 8 OCCUPANTS TOTAL
 TOILET BUILDING HEIGHT: 20'-11"

DRAWING INDEX

COVER DRAWING	REV. NO.	REV. DATE
A0.1 CODES AND INFO	2	5/18/2018
ARCHITECTURAL		
A2.1 FLOOR PLAN	2	5/18/2018
A3.1 BUILDING ELEVATIONS	0	2/9/2018
A3.2 BUILDING SECTIONS	0	2/9/2018
A5.1 OPENINGS	0	2/9/2018
A8.2 WALL SECTIONS	0	2/9/2018
STRUCTURAL		
S2.1 FOUNDATION PLAN	0	2/26/2018
S2.2 ROOF FRAMING PLAN	0	2/26/2018
PLUMBING		
P1.0 PLUMBING FLOOR PLAN	0	2/14/2018
P2.0 PLUMBING SCHEDULES	0	2/14/2018
MECHANICAL		
M1.0 MECHANICAL FLOOR PLAN	0	2/14/2018
ELECTRICAL		
E1.1 ELECTRICAL SITE PLAN, SITE DETAILS	0	2/9/2018
E2.1 FLOOR PLANS, LEGEND, NOTES, DETAILS, SCHEDULES	0	2/9/2018
E3.1 RISER DIAGRAM, SPECIFICATIONS, ENERGY CODE COMPLIANCE	0	2/9/2018

GRAPHIC SYMBOLS

AREA NUMBER: 201
 DOOR NUMBER: 201
 WINDOW NUMBER: 3
 ROOM AND SPACE NUMBER: OFFICE 100
 TOILET ACCESSORIES: 12a
 EQUIPMENT: 1
 REVISIONS: 1
 WALL TYPE: 2
 REFERENCE GRID: A

SECTION NUMBER: 6
 SECTION REFERENCE: A8.1
 SHEET NUMBER WHERE DRAWN: A8.1
 DETAIL NUMBER: A
 DETAIL REFERENCE: A9.2
 SHEET NUMBER WHERE DRAWN: A9.2
 ELEVATION NUMBER: 1
 INTERIOR ELEVATION INDICATOR: 4 A3.3 2
 SHEET NUMBER WHERE DRAWN: 3
 DETAIL NUMBERS: 12
 WALL TYPES: A9.1
 SHEET NUMBER WHERE DRAWN: A9.1

EARTH: [Symbol]
 STONE FILL: [Symbol]
 CONCRETE: [Symbol]
 CONCRETE BLOCK: [Symbol]
 BRICK: [Symbol]

ROUGH WOOD: [Symbol]
 FINISH WOOD: [Symbol]
 PLYWOOD: [Symbol]
 STEEL (LARGE SCALE): [Symbol]
 STEEL (SMALL SCALE): [Symbol]

BATT OR BLOWN-IN INSULATION: [Symbol]
 RIGID INSULATION: [Symbol]
 GYPSUM BOARD: [Symbol]
 ACOUSTICAL TILE: [Symbol]
 MARBLE: [Symbol]

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 THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
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PEAY PARK SPLASH PAD
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PROJECT INFORMATION

5/18/18 JR REVIEW COMMENTS

NO. DATE BY REVISION

DRAWN BY JERRY W. REYNOLDS

DESIGNED BY JERRY W. REYNOLDS

APPROVED BY

JOB NO. 517A556

DATE 2/9/2018

SCALE NOT TO SCALE

CODES AND INFO

DRAWING NUMBER

A0.1

CADD FILE NO.



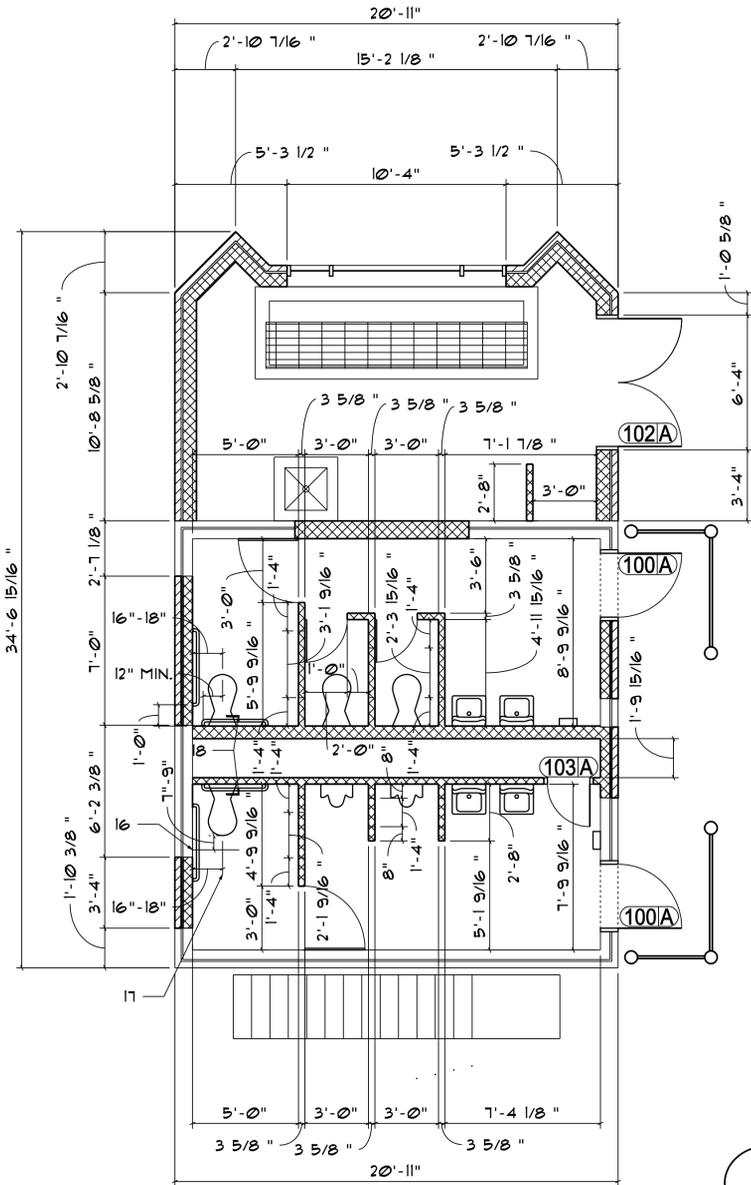
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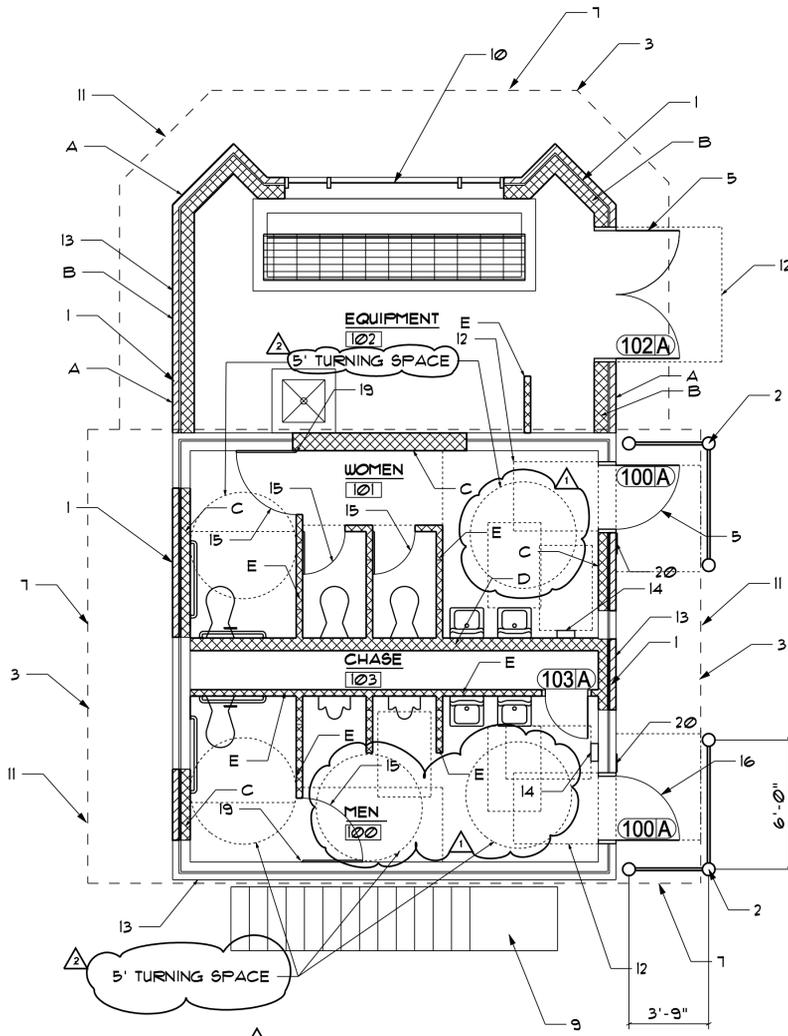
NO.	ROOM	FLOOR		BASE		N WALL		E WALL		S WALL		W WALL		CEILING		DOOR	TRIM	REM. NO.
		MTL.	FIN.	MTL.	FIN.	MTL.	FIN.	MTL.	FIN.	MTL.	FIN.	MTL.	FIN.	HT.				
100	MEN	C	EP			CMU	EP	CMU	EP	CMU	EP	CMU	EP	WD	P	9'-5"	P	P
101	WOMEN	C	EP			CMU	EP	CMU	EP	CMU	EP	CMU	EP	WD	P	8'-0"	P	P
102	EQUIPMENT	C	EP			CMU	EP	CMU	EP	CMU	EP	CMU	EP	WD	P	8'-0"	P	P
103	CHASE	C	SLR			CMU		CMU		CMU		CMU		WD	P	8'-0"	P	P

DRAWING NOTES

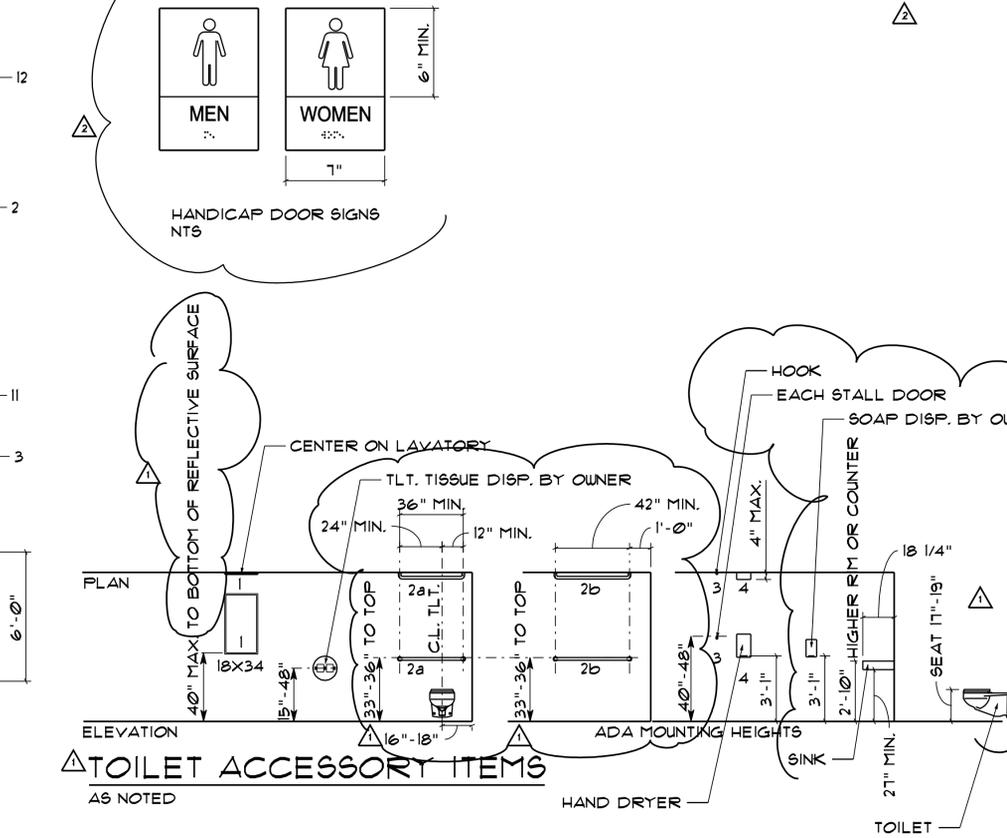
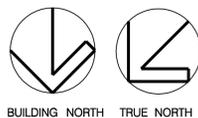
- BRICK VENEER AND CONCRETE MASONRY UNITS WITH ELASTOMERIC PAINT FINISH.
- DECORATIVE DOOR SCREEN/SIGNAGE, SEE DETAIL.
- ROOF OVERHANG LINE.
- PREFINISHED METAL ROOFING.
- HOLLOW METAL PEDESTRIAN DOOR/FRAME.
- EXISTING / FINISH GRADE, SEE CIVIL.
- 1" X 12" FIBER-CEMENT FASCIA BOARD.
- NEW FIBER-CEMENT SHINGLE GABLE SIDING.
- EXISTING STAIRS.
- WINDOW.
- NEW PREFINISHED METAL GUTTER AND DOWNSPOUT SYSTEM.
- ADA CLEAR/LEVEL FLOOR AREAS.
- MANUFACTURED STONE BASE AND MATCHING TRIM.
- HAND DRYER.
- PHENOLIC PARTITION DOOR.
- LOCATION OF TISSUE DISPENSER, NIC.
- LOCATION OF TOILET CENTERLINE.
- FLUSH CONTROL ON OPEN SIDE.
- CONTINUOUS STAINLESS STEEL HINGE.
- H/C DOOR SIGNS. MOUNT MIN. 48" TO BOTTOM OF LOWEST TACTILE LETTERS AND MAXIMUM 60" TO BOTTOM OF HIGHEST TACTILE LETTERS. LOCATE ALONGSIDE THE DOOR AT THE LATCH SIDE.



DIMENSION PLAN



FLOOR PLAN



TOILET ACCESSORY ITEMS
AS NOTED

WALL TYPES

- A-EXTERIOR WALLS - BASE - MANUFACTURED STONE VENEER OVER BRICK TO BE CENTURION PLANTATION - OXFORD OR APPROVED EQUAL.
- B-EXTERIOR WALLS - 8" CMU WITH BRICK, MATCH EXISTING SIZE AND COURSING.
- C-INTERIOR WALLS NON LOAD BEARING - 4" CMU WITH BRICK, MATCH EXISTING SIZE AND COURSING.
- D-INTERIOR WALLS LOAD BEARING - 8" CMU, MATCH EXISTING SIZE AND COURSING.
- E-INTERIOR PARTITION WALLS - AS REQUIRED, 4" CMU MINIMUM, MATCH EXISTING COURSING.

THE SECOND FLOOR IS DESIGNATED FOR STORAGE ONLY.

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PROJECT INFORMATION

- 5/18/18 JR REVIEW COMMENTS
- 4/18/18 JR REVIEW COMMENTS

NO.	DATE	BY	REVISION
		JERRY W. REYNOLDS	DRAWN BY
		JERRY W. REYNOLDS	DESIGNED BY
			APPROVED BY
		517A556	JOB NO.
		2/9/2018	DATE
		1/4" = 1'-0"	SCALE

FLOOR PLAN

DRAWING NUMBER

A2.1

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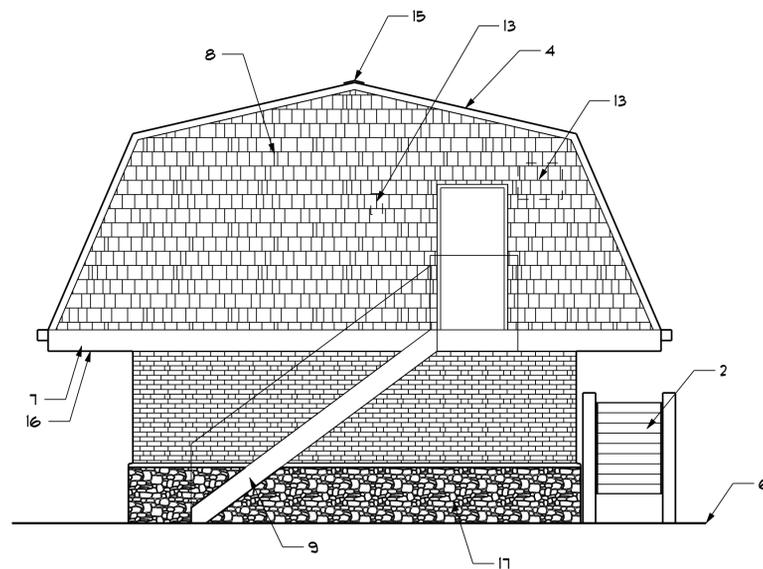


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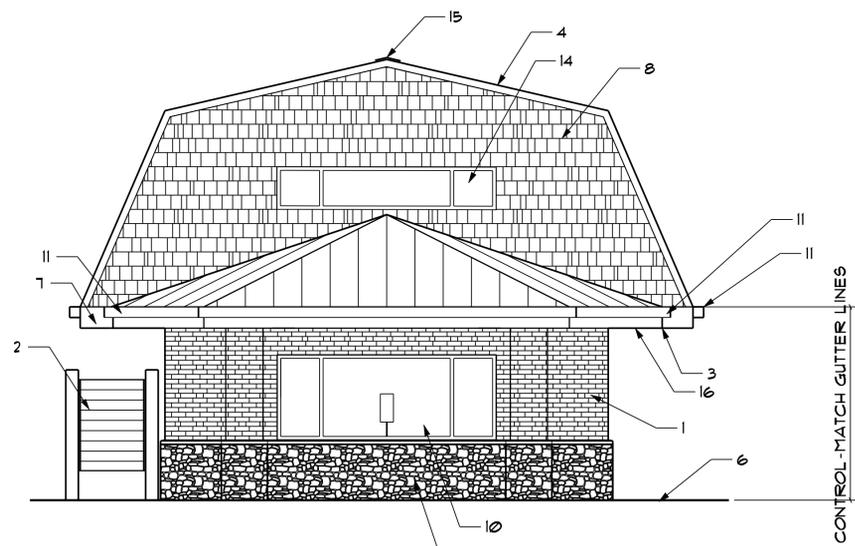
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DRAWING NOTES

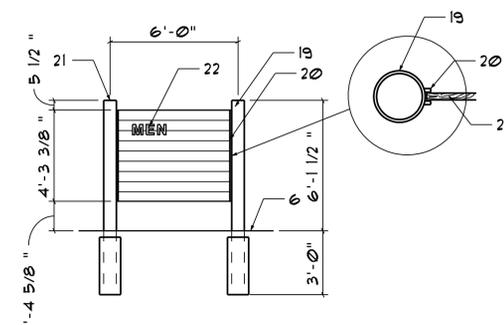
1. BRICK VENEER AND CONCRETE MASONRY UNITS WITH ELASTOMERIC PAINT FINISH.
2. DECORATIVE DOOR SCREEN/SIGNAGE, SEE DETAIL.
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8. NEW FIBER-CEMENT SHINGLE GABLE SIDING.
9. EXISTING STAIRS.
10. WINDOW.
11. NEW PREFINISHED METAL GUTTER AND DOWNSPOUT SYSTEM.
12. ADA CLEAR/LEVEL FLOOR AREAS.
13. REMOVE EXISTING A/C UNIT AND LIGHT FIXTURES.
14. REMOVE EXISTING WINDOW AND ADD A NEW WINDOW.
15. CONTINUOUS ROOF VENT.
16. VENTILATING SOFFIT.
17. MANUFACTURED STONE BASE AND MATCHING TRIM OVER BRICK.
18. FAN / LOUVER, SEE MECHANICAL.
19. 6" STEEL COLUMN SET IN CONCRETE
20. BENT STEEL MOUNTING CLIPS, WELD TO COLUMN.
21. SEAL COLUMN WITH WELDED CAP PLATE.
22. REDWOOD WITH ROUTED LETTERS. LETTER COLOR SELECTED.



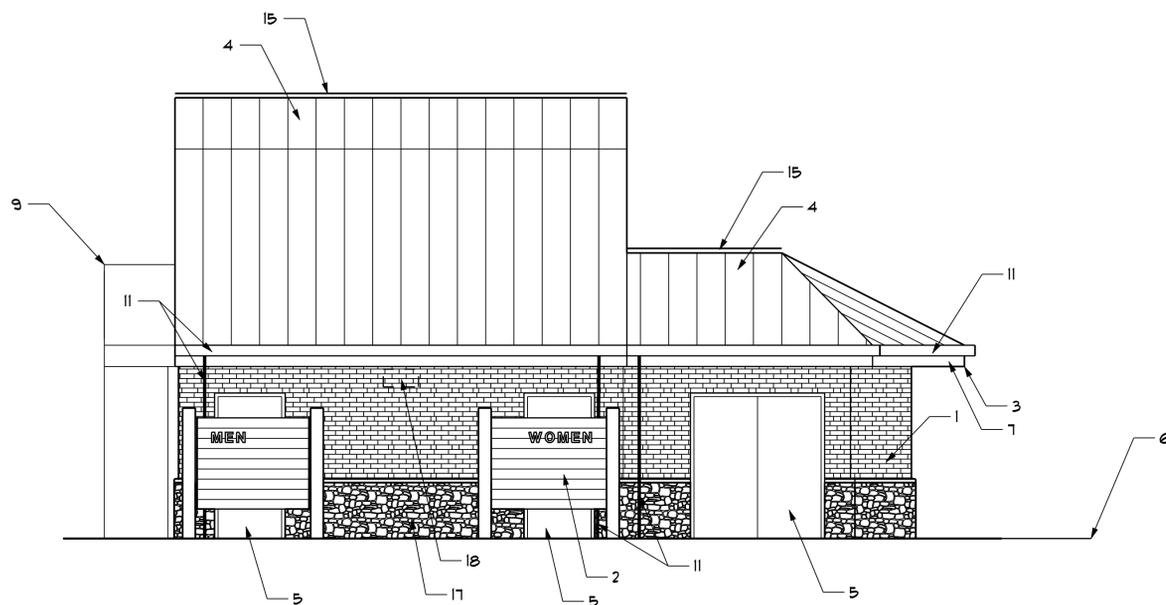
NORTH ELEVATION



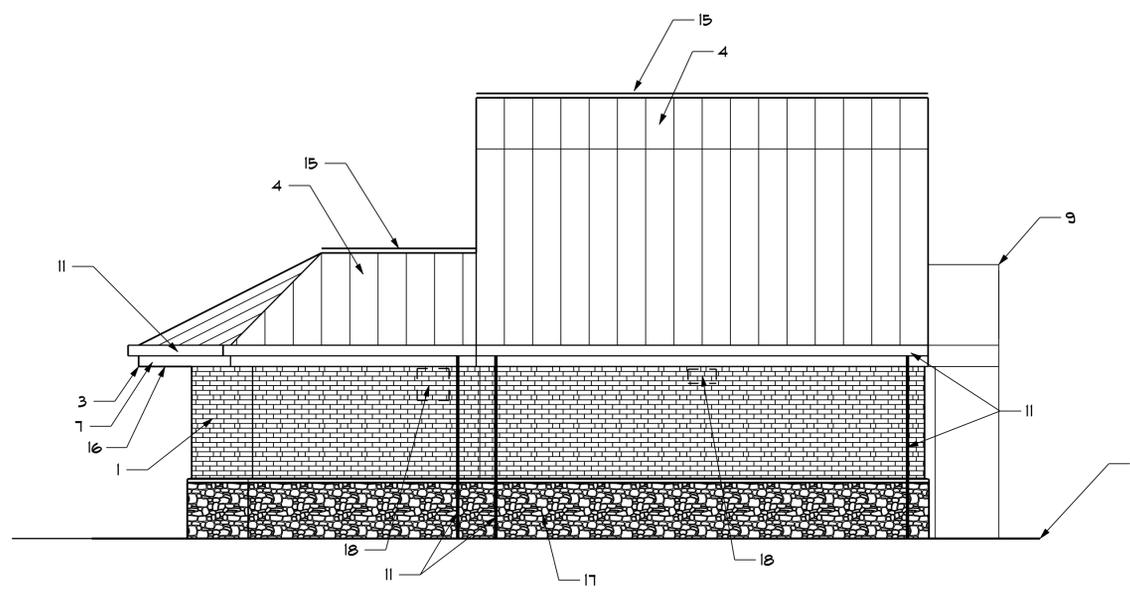
SOUTH ELEVATION



DOOR SCREEN



WEST ELEVATION



EAST ELEVATION



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SCALE	

BUILDING ELEVATIONS

DRAWING NUMBER

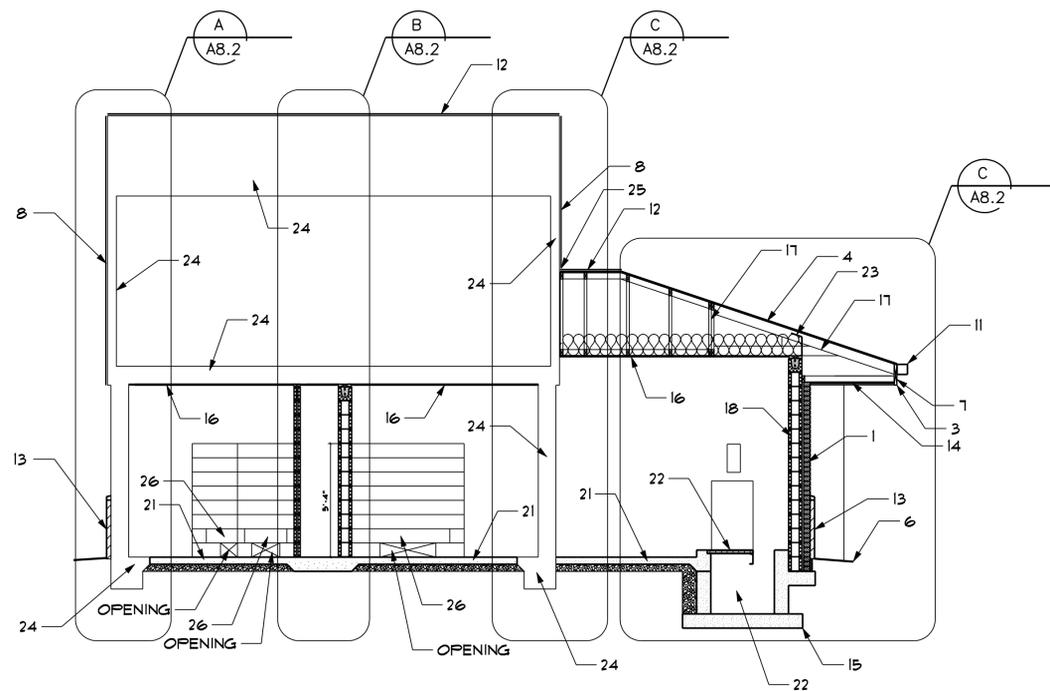
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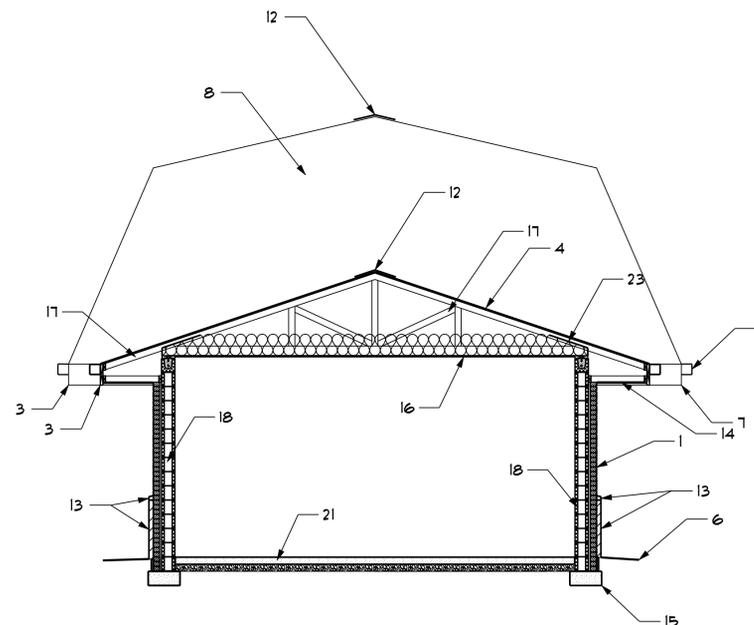


DRAWING NOTES

1. BRICK VENEER AND CONCRETE MASONRY UNITS WITH ELASTOMERIC PAINT FINISH.
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8. NEW FIBER-CEMENT SHINGLE GABLE SIDING.
9. EXISTING STAIRS.
10. WINDOW.
11. NEW PREFINISHED METAL GUTTER AND DOWNSPOUT SYSTEM.
12. CONTINUOUS ROOF VENT.
13. MANUFACTURED STONE BASE AND MATCHING TRIM OVER BRICK.
14. VENTILATING SOFFIT.
15. FOUNDATION, SEE STRUCTURAL.
16. 5/8" APA B-C PLYWOOD CEILING, PAINTED.
17. PRE-ENGINEERED AND STICK-BUILT WOOD TRUSSES.
18. FOAM INSULATION IN EMPTY CORES.
19. R-38 FIBERGLASS ATTIC INSULATION.
20. R-5 FOUNDATION INSULATION.
21. 4" CONCRETE SLAB ON 4" CRUSHED STONE, SEE STRUCTURAL.
22. CONCRETE TANK AND GRATING, SEE STRUCTURAL.
23. PLYWOOD INSULATION BAFFLE, 3" CLEAR.
24. EXISTING CONSTRUCTION TO REMAIN.
25. FLASHING.
26. 4" CMU WALL WITH 3 5/8" X 8" CONCRETE LINTEL.



LONGITUDINAL SECTION



CROSS SECTION



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APPROVED BY

JOB NO. 517A556

DATE 2/9/2018

SCALE

BUILDING SECTIONS

DRAWING NUMBER

A3.2

CADD FILE NO.



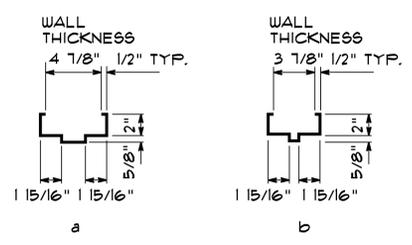
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DOOR AND OPENING SCHEDULE

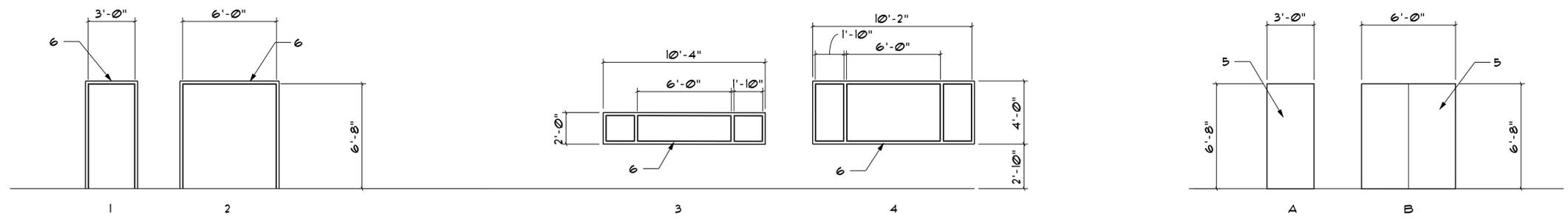
NO.	DOOR/OPENING		FRAME		UL LABEL	HDW. GROUP	KEY GROUP	DETAILS			SIGNAGE	REM. NO.
	WIDTH	HT.	TYPE	MTL.				SEC. TYPE	MTL.	HEAD		
100A	3'-0"	6'-8"	A	HM	a	1	HM	H1/A5.1	J1/A5.1			
101A	3'-0"	6'-8"	A	HM	a	1	HM	H1/A5.1	J1/A5.1			
102A	6'-0"	6'-8"	B	HM	a	2	HM	H1/A5.1	J1/A5.1			
103A	3'-0"	6'-8"	A	HM	b	1	HM	H2/A5.1	J2/A5.1			

DRAWING NOTES

- BRICK VENEER AND CONCRETE MASONRY UNITS WITH ELASTOMERIC PAINT FINISH.
- 8" CMU WALL.
- BOND BEAM, SEE STRUCTURAL.
- ANGLE BRICK LINTEL, SEE STRUCTURAL.
- HOLLOW METAL PEDESTRIAN DOOR.
- HOLLOW METAL DOOR FRAME.
- SEALANT.
- CAULK.
- 1" INSULATING/TEMPERED GLASS.



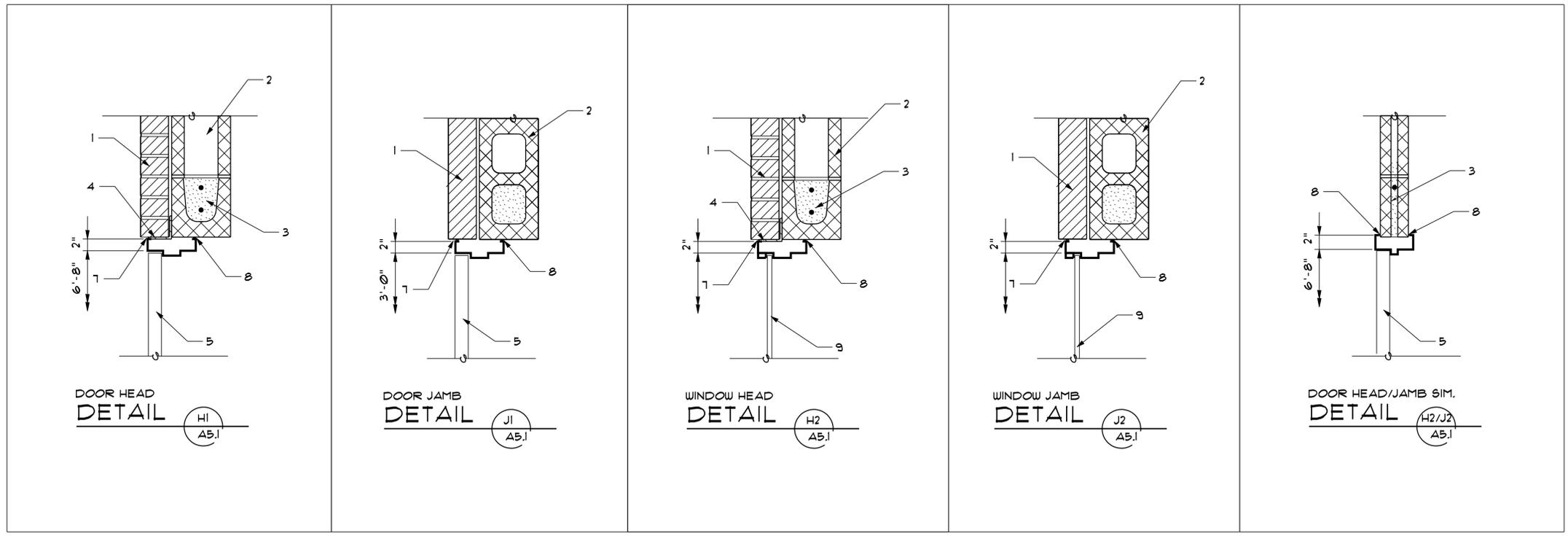
FRAMES



DOOR FRAME TYPES

WINDOW TYPES

DOOR TYPES



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SCALE

OPENINGS

DRAWING NUMBER

A5.1

CADD FILE NO.



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DATE 2/9/2018

SCALE

WALL SECTIONS

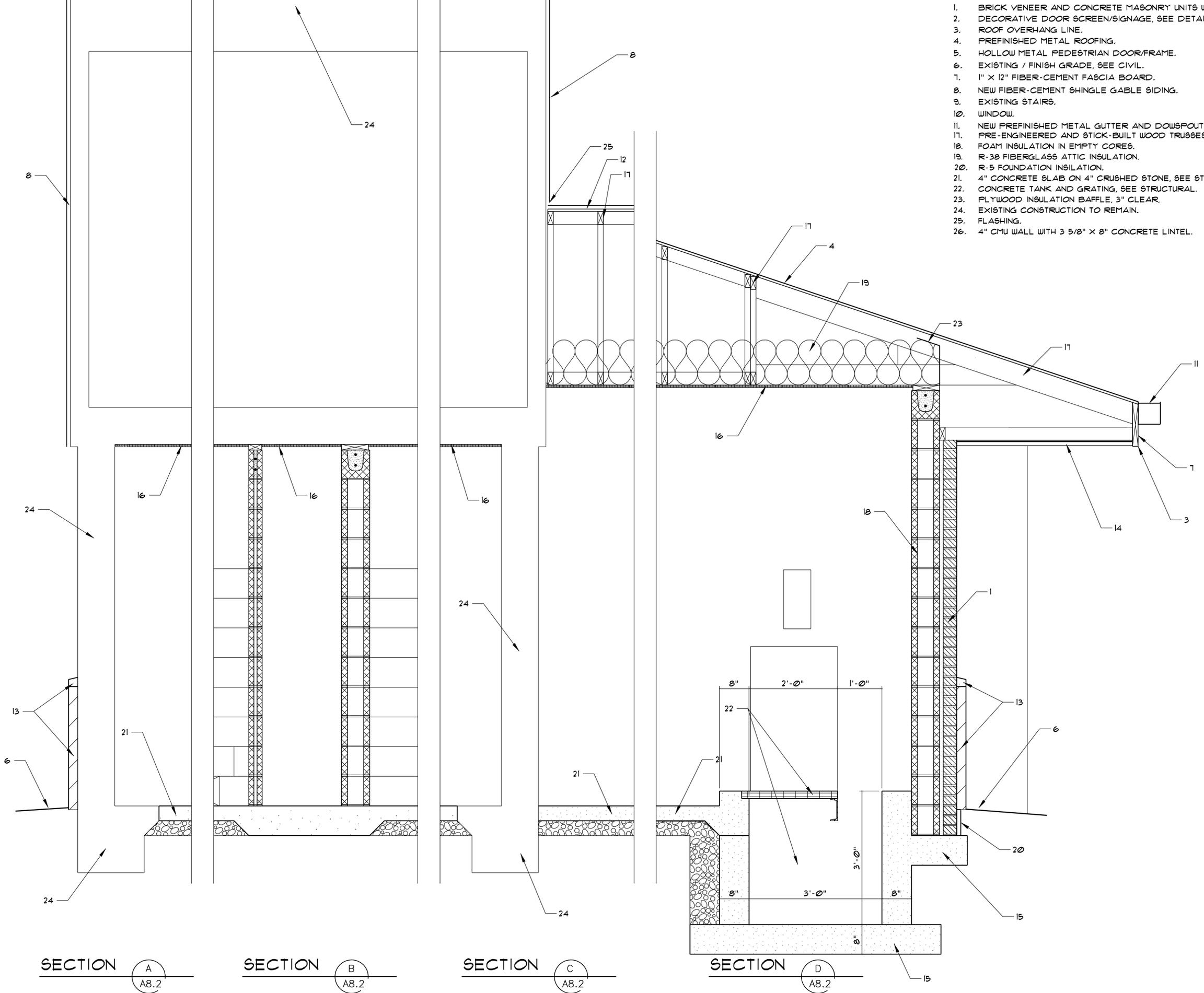
DRAWING NUMBER

A8.2

CADD FILE NO.

DRAWING NOTES

1. BRICK VENEER AND CONCRETE MASONRY UNITS WITH ELASTOMERIC PAINT FINISH.
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SECTION A
A8.2

SECTION B
A8.2

SECTION C
A8.2

SECTION D
A8.2



FOUNDATION NOTES

1. STRUCTURAL DESIGN IS BASED ON AN ASSUMED SOIL BEARING PRESSURE OF 2,500 PSF.
2. THE CONCRETE FOUNDATIONS SHALL BEAR ON UNDISTURBED EARTH.
3. ALL UNDERCUTTING OF INADEQUATE SOIL MATERIAL SHALL BE AT THE DIRECTION OF THE GEOTECHNICAL ENGINEER.
4. BACKFILL ALL EXCAVATIONS WITH STONE CONFORMING TO SIZE NO. 57 ASTM D448 PLACED IN SUITABLE LIFTS AND COMPACTED TO 100% OF MAXIMUM DRY DENSITY.
5. ALL EXTERIOR FOOTINGS SHALL BEAR AT A MINIMUM DEPTH OF 12" BELOW FINISHED GRADE.
6. NO FOOTING SHALL BEAR DIRECTLY ON ROCK.
7. A MINIMUM THICKNESS OF 6" OF GRANULAR FILL SHALL BE PLACED UNDER FOUNDATIONS BEARING ON ROCK.

CONCRETE NOTES

1. ALL CONCRETE WORK SHALL CONFORM TO THE CURRENT BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318) AND REQUIREMENTS OF SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301), EXCEPT AS MODIFIED BY THE REQUIREMENTS BELOW.
2. MATERIALS
 - A. CONCRETE - 28 DAY STRENGTH - F'C = 4000 PSI SLAB AND 3000 PSI FOOTINGS.
 - B. REINFORCING STEEL - F_y = 60,000 P_s
 - C. WELDED WIRE FABRIC (WWF) - ASTM A185
 - D. ALL EXPOSED CONCRETE SHALL BE AIR ENTRAINED.
 - E. ANCHOR BOLTS - A307
3. SHOP DRAWINGS SHALL CONFORM TO CONTRACT DRAWINGS AND "DETAIL AND DETAILING OF CONCRETE REINFORCEMENT" (ACI 315-80).
4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENTS (UNLESS NOTED OTHERWISE)
 - A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH - 3" CLEAR
 - B. FORMED CONCRETE - 2" CLEAR
5. ALL BARS MARKED CONTINUOUS SHALL BE LAPPED WITH A CLASS "B" TENSION SPLICE AT CORNERS AND SPLICES SHALL BE LOCATED ONLY AS SHOWN OR IN ACCORDANCE WITH C.R.S.I. STANDARDS.
6. ALL FOUNDATION CONDITIONS AND REINFORCING PLACEMENT SHALL BE APPROVED BY THE ENGINEER BEFORE CONCRETE IS PLACED.

DESIGN NOTES

DESIGN LOADS SHALL BE APPLIED IN ACCORDANCE WITH THE IBC 2012 AS FOLLOWS -

WIND LOADS -

BASIC WIND SPEED = 110 MPH
 MEAN ROOF HEIGHT = SEE SECTIONS
 IMPORTANCE FACTOR = 1.0
 EXPOSURE CATEGORY = B
 COMPONENTS AND CLADDING
 WALL LOADS = 18.6 PSF INTERIOR AND 23.0 PSF EDGE
 ROOF LOADS = 15.1 PSF ROOF AND 21.3 PSF EDGE
 REFER TO IBC 2012 FOR REQUIREMENTS OF DIFFERENT LOADING CONDITIONS

ROOF DEAD LOAD = 10 PSF
 ROOF LIVE LOAD = 20 PSF (UNREDUCIBLE)
 SNOW LOAD

GROUND SNOW LOAD P_g = 10 PSF
 FLAT ROOF SNOW LOAD P_f = 10 PSF
 SNOW EXPOSURE FACTOR C_e = 1.0
 IMPORTANCE FACTOR I = 1.0
 THERMAL FACTOR C_t = 1.0

FLOOR LIVE LOAD = 100 PSF

SEISMIC LOADS

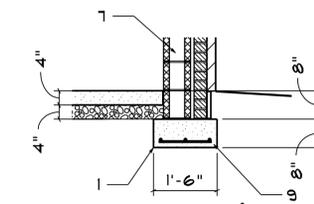
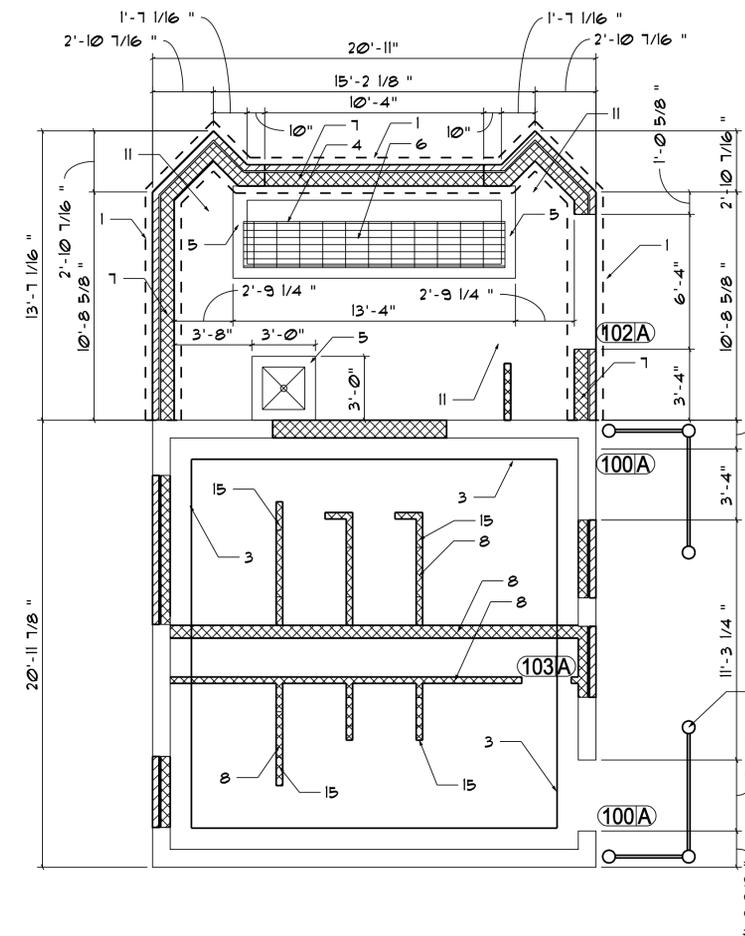
1. SEISMIC IMPORTANCE FACTOR = 1.0 = OCCUPANCY CATEGORY = II
2. MAPPED SPECTRAL RESPONSE S_s = 0.300; S₁ = 0.144
3. SITE CLASS = C
4. SPECTRAL RESPONSE COEFFICIENTS = S_{D5} = 0.240; S_{D1} = 0.159
5. SEISMIC DESIGN CATEGORY = C
6. BASIC SEISMIC-FORCE-RESISTING SYSTEM = BEARING WALL SYSTEM (A5)
7. SEISMIC RESPONSE COEFFICIENT = C_s = 0.181
8. RESPONSE MODIFICATION FACTOR = R = 2.0
9. ANALYSIS PROCEDURE USED = EQUIVALENT LATERAL FORCE

DRAWING NOTES

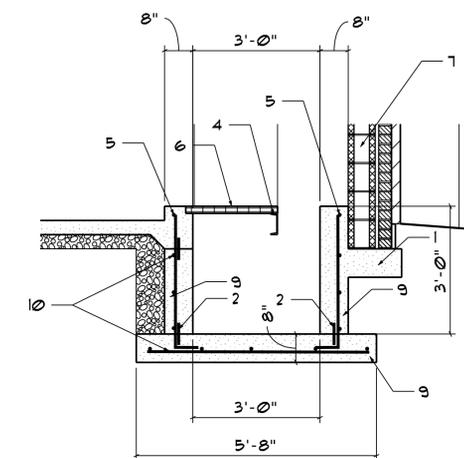
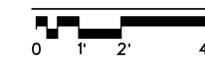
1. PERIMETER FOOTING 18" X 8" THICK, TOP OF FOOTING 8" BELOW FINISH GRADE.
2. WATERSTOP.
3. CUT AND REPOUR EXISTING SLAB. DOWEL EDGES WITH NO. 3 AT 24" O.C. NEW SLAB TO HAVE WWF 6X6X14X14 OR FIBER. SLAB TO BE 4" THICK ON 4" CRUSHED STONE WITH 12 MIL VAPOR BARRIER.
4. CHANNEL C 82 TO SUPPORT GRATING AND PIPE.
5. 4" X 6" CURB WITH 1 NO. 3 CONT.
6. 1 1/4" ALUMINUM 1 BAR GRATING WITH ALUMINUM ANGLE FRAME.
7. 8" CMU WITH 1 NO. 5 AT 24" O.C. CAP WITH BOND BEAM WITH 1 NO. 5 CONT.
8. INTERIOR WALLS REINF. WITH 1 NO. 3 VERTICAL AT 36" AND CORNER TERMINUS.
9. REINFORCING 3" CLEAR.
10. NO. 5 AT 12" O.C.E.W.
11. NEW SLAB TO HAVE WWF 6X6X14X14 OR FIBER. SLAB TO BE 4" THICK ON 4" CRUSHED STONE WITH 12 MIL VAPOR BARRIER.
12. 6" DIAMETER SCHEDULE 40 STEEL PIPE SET IN 2'-0" X 3'-0" DEEP CONCRETE ENCASEMENT.
13. 3 NO. 5 LONGITUDINAL CONTINUOUS AND NO. 5 AT 24" TRAVERSE.
14. BRACE EXISTING STRUCTURE AS NECESSARY BEFORE STARTING WALL DEMOLITION.
15. FILL TOILET PARTITIONS SOLID WITH CONCRETE.

LINTEL SCHEDULE

OPENING SIZE:	SUPPORT STEEL:	BOND BEAM:
0 - 4 FEET	L 3 x 3 x 3 / 8	SINGLE BOND BEAM W/2 - #5'S
4 - 10 FEET	L 6 x 4 x 1 / 2	DOUBLE BOND BEAM W/2 - #5'S AND #3 TIES AT 24" O/C



FOOTING SECTION



PIT SECTION



FOUNDATION PLAN



Jerry W. Reynolds
architect

904 WEST CYNTHIA TRAIL
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PHONE (615) 855 - 0406



GBE
engineering
GOODLETTSVILLE, TN

RESERVED FOR CONSULTANT LOGO

LOCAL PARK AND RECREATION FUND
 THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
 RESTROOM / EQUIPMENT BUILDING
PEAY PARK SPLASH PAD
 GOODLETTSVILLE, TENNESSEE

PROJECT INFORMATION

NO. DATE BY REVISION

DRAWN BY JERRY W. REYNOLDS

DESIGNED BY GREG EDINGTON

APPROVED BY

JOB NO. 517A556

DATE 2/26/2018

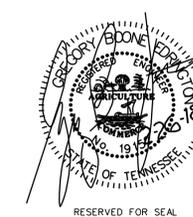
SCALE

FOUNDATION PLAN

DRAWING NUMBER

S2.1

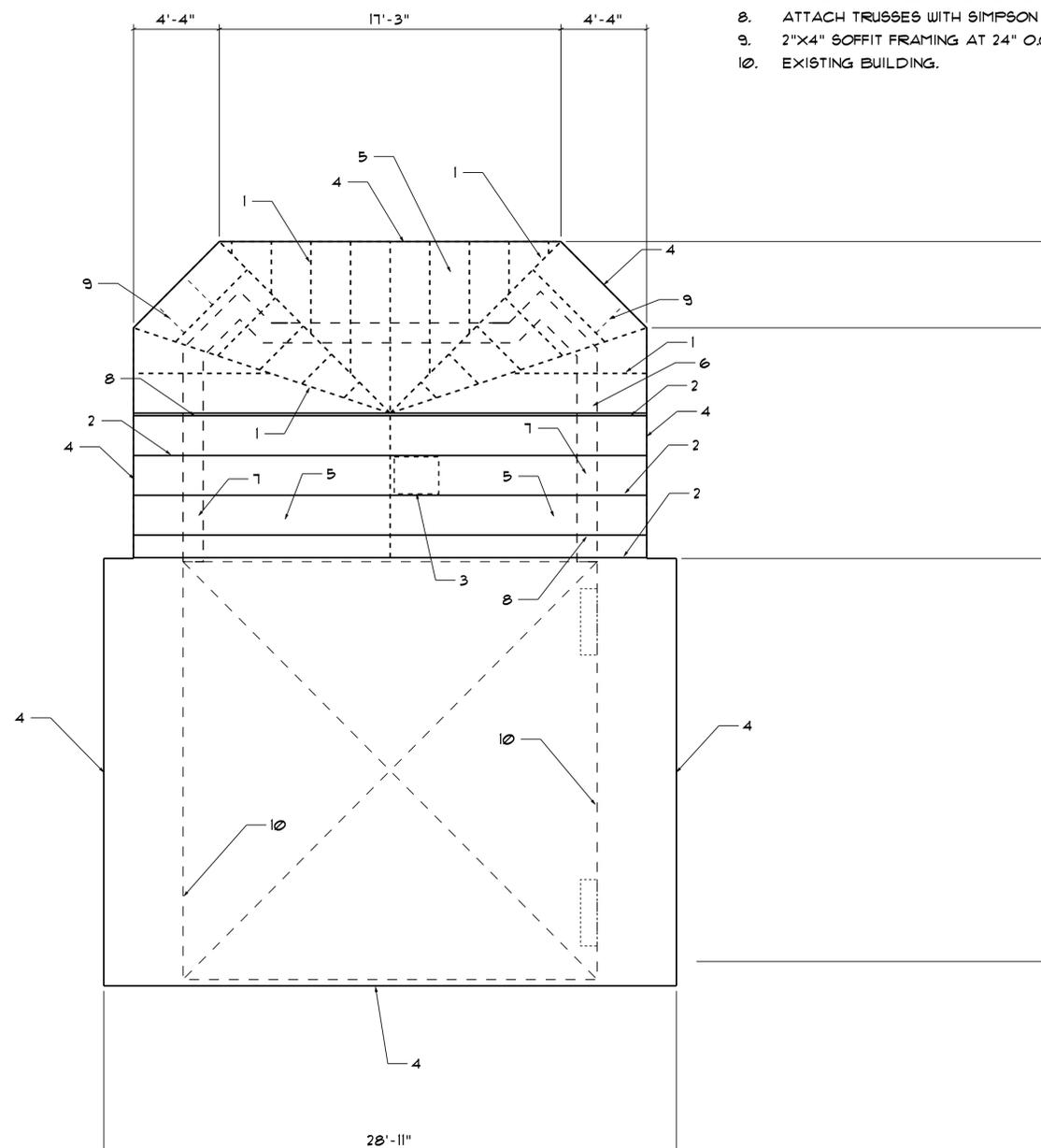
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RESERVED FOR SEAL
RESERVED FOR CONSULTANT LOGO

DRAWING NOTES

1. STICK FRAMING, MAXIMUM 24" O.C.
2. PRE-ENGINEERED WOOD TRUSSES AT 24" O.C.,
3. ATTIC ACCESS DOOR, FIELD LOCATE BETWEEN TRUSSES.
4. 1" X 12" HARDY PLANK FASCIA.
5. 5/8" PLYWOOD ROOF SHEATHING.
6. 8" BOND BEAM REINFORCING WITH 2 NO. 6.
7. 2" X 8" TRUSS BEARING PLATE.
8. ATTACH TRUSSES WITH SIMPSON STRONG TIE CLIPS.
9. 2"X4" SOFFIT FRAMING AT 24" O.C. TYPICAL.
10. EXISTING BUILDING.



ROOF FRAMING PLAN



LOCAL PARK AND RECREATION FUND
THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
RESTROOM / EQUIPMENT BUILDING
PEAY PARK SPLASH PAD
GOODLETTSVILLE, TENNESSEE

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DATE 2/26/2018

SCALE

ROOF FRAMING PLAN

DRAWING NUMBER

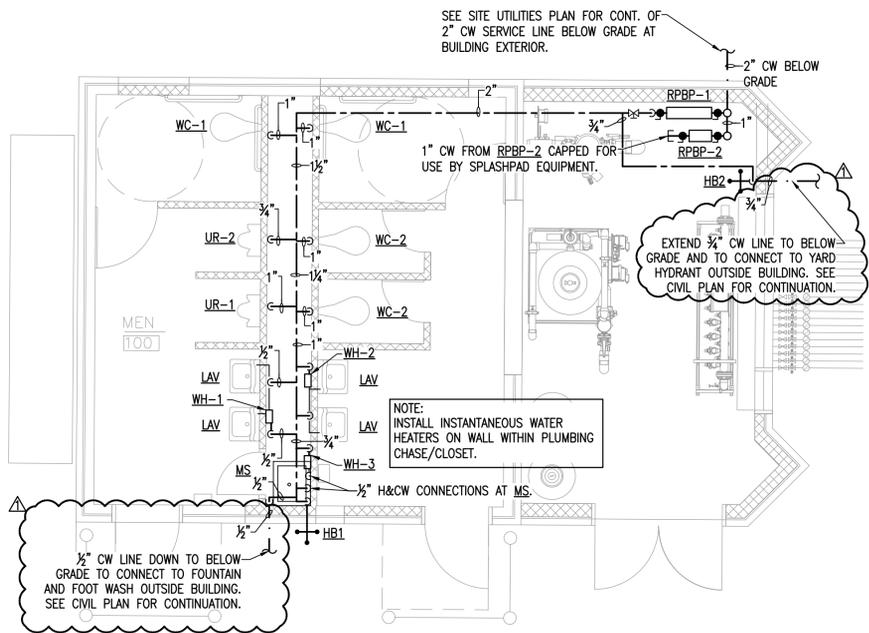
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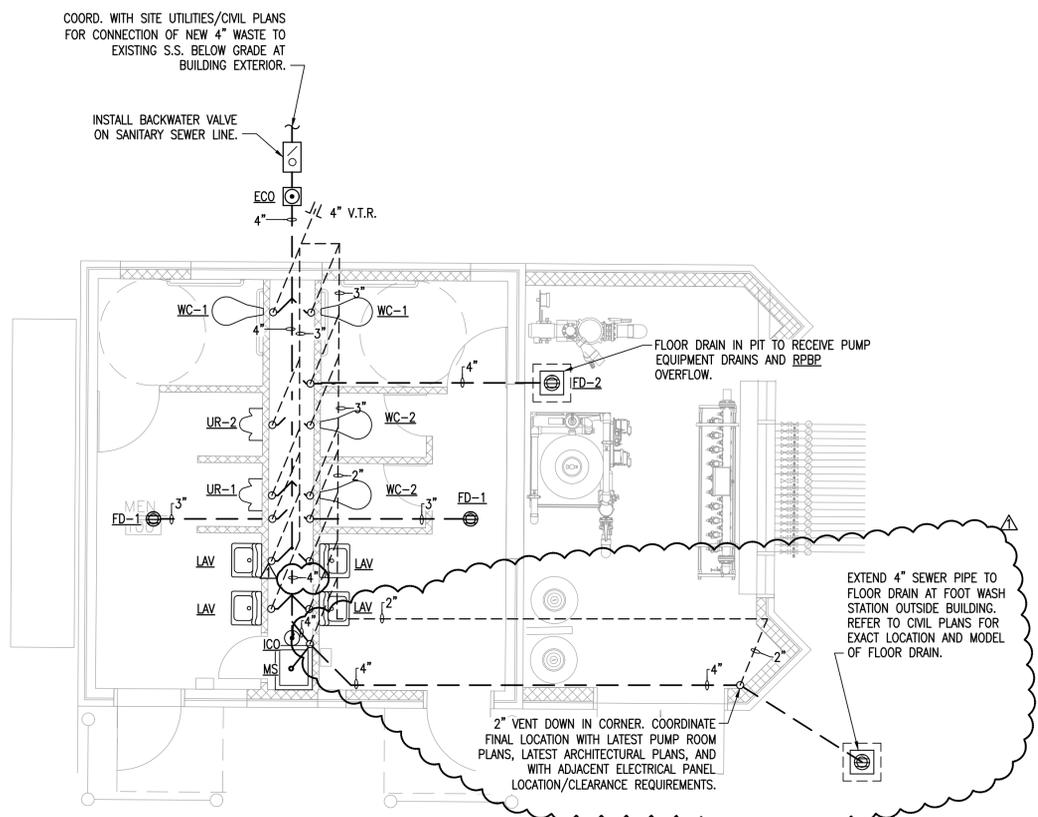
Gresham Schelton
ENGINEERING
1163 West Main St
Franklin, TN 37064
Tel: 615.730.9111
Fax: 615.224.3599
Project #17-178

PLUMBING LEGEND	
SYMBOL	DESCRIPTION
---	COLD WATER ABOVE SLAB
- - -	HOT WATER ABOVE SLAB
---	COLD WATER BELOW SLAB OR GRADE
- - -	WASTE LINE BELOW SLAB OR GRADE
- - -	VENT LINE ABOVE OR BELOW SLAB
⊕	EXTERIOR CLEANOUT UP FROM BELOW SLAB OR GRADE
⊖	CLEANOUT UP FROM BELOW FLOOR OR SLAB
⊖	PIPE TURNED DOWN
⊕	PIPE TURNED UP
WC-1, ETC.	FIXTURE IDENTIFICATIONS
CW	COLD WATER
HW	HOT WATER
///	EXISTING PLUMBING THIS LOCATION TO BE REMOVED



PLUMBING WATER PIPING

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



PLUMBING WASTE/VENT

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



LOCAL PARK AND RECREATION FUND
THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
RESTROOM EQUIPMENT BUILDING
PEAY PARK SPLASH PAD
GOODLETTSVILLE, TENNESSEE

PROJECT INFORMATION

NO. DATE	BY	REVISION
1	EGC	02.20.18

REVISION 1 02.20.18

DRAWN BY: MWD / SCT
DESIGNED BY: EGC
APPROVED BY: EGC
ARCH JOB NO. 517A556
DATE: 01/30/2018
SCALE: NOTED

PLUMBING FLOOR PLAN

DRAWING NUMBER

P1.0

CADD FILE NO.



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Project #17-178

LOCAL PARK AND RECREATION FUND
THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
RESTROOM / EQUIPMENT BUILDING
PEAY PARK SPLASH PAD
GOODLETTSVILLE, TENNESSEE

PROJECT INFORMATION

REVISION 1 02.20.18

NO. DATE BY REVISION

DRAWN BY MWD / SCT

DESIGNED BY ECG

APPROVED BY ECG

ARCH JOB NO. 517A556

DATE 01/30/2018

SCALE NOTED

PLUMBING SCHEDULES

DRAWING NUMBER

P2.0

CADD FILE NO.

GENERAL PLUMBING SPECIFICATIONS

FURNISH, INSTALL, PROVIDE AND MAKE OPERATIVE ALL EQUIPMENT MATERIALS, SUPERVISION, LABOR AND ANY AND ALL ITEMS NECESSARY FOR THE PROPER INSTALLATION OF THE CORRECTLY FUNCTIONING PLUMBING SYSTEM AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN.

EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. EQUALS MAY BE SUBSTITUTED ONLY IF PRIOR APPROVAL IS OBTAINED FROM OWNER.

ORDINANCES, PERMITS AND CODES: THE WORKMANSHIP AND MATERIALS COVERED BY THESE SPECIFICATIONS SHALL CONFORM TO ALL REGULATIONS OF ALL THE AUTHORITIES HAVING JURISDICTION.

THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, CONNECTION AND INSPECTION FEES AS REQUIRED FOR THE COMPLETE INSTALLATION OF THE PLUMBING SYSTEM.

THE LOCATION OF PIPING AND EQUIPMENT, AS SHOWN ON THE DRAWINGS, IS DIAGRAMMATIC AND SCHEMATIC AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE HIS OWN WORKING LAYOUT TO ELIMINATE ALL STRUCTURAL AND ARCHITECTURAL CONFLICTS IN THE BUILDING.

WASTE OR WATER PIPING PASSING THRU OR UNDER FOOTING / FOUNDATION SHALL BE PROTECTED BY A STEEL SLEEVE (TWO SIZES LARGER) OR AN APPROVED RELIEVING ARCH.

VERIFY ALL MEASUREMENTS AT THE SITE AND COORDINATE ALL WORK SO THAT IT DOES NOT INTERFERE WITH THE WORK OF THE OTHER TRADES.

INSULATION: ALL INSULATION, INCLUDING JACKET, OR FACING AND ADHESIVE USED TO ADHERE FACING OR JACKET TO THE INSULATION SHALL HAVE A COMPOSITE FIRE AND SMOKE HAZARD RATING TESTED BY THE PROCEDURE RECOMMENDED BY ASTM E-84, NFPA 225 OR U.L. 723, NOT EXCEEDING: FLAME SPREAD 25, SMOKE DEVELOPED 50. ALL INSULATION ACCESSORIES SHALL ALSO HAVE THE RATING LISTED ABOVE.

DOMESTIC WATER PIPES SHALL BE INSULATED WITH ONE (1) INCH THICK PREFORMED HIGH DENSITY FIBERGLASS WITH FACTORY APPLIED VAPOR BARRIER AND SELF SEALING LAP, SUCH AS MANWILE MICRO-LOK.

DOMESTIC WATER PIPES SHALL BE TYPE "L" COPPER ABOVE GROUND / SLAB AND TYPE "K" COPPER BELOW GRADE / SLAB. INSTALL DIELECTRIC UNIONS AT CONNECTION TO DISSIMILAR METALS. ALTERNATIVE WATER PIPING MATERIAL SHALL BE WIRSBO "PEX" POLYETHYLENE CROSS-BRACED PIPING WITH BRASS / COPPER FITTINGS.

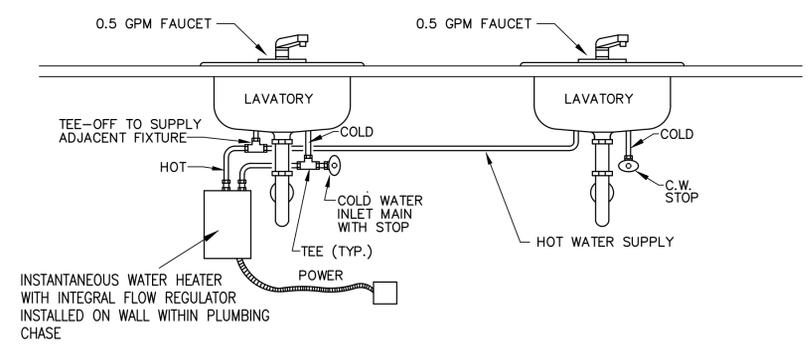
ANY WATER PIPING ROUTED IN AN EXTERIOR WALL OR OTHERWISE EXPOSED TO FREEZING TEMPERATURES SHALL BE PROVIDED WITH CHROMALOX SRF (OR EQUAL) SELF-REGULATING FREEZE PROTECTION CABLE - 8 WATTS PER LINEAL FOOT OF PIPING.

ANY PIPE PENETRATING A RATED WALL, CEILING OR FLOOR SHALL DO SO IN A MANNER THAT MAINTAINS THE INTEGRITY AND FIRE RATING OF THE STRUCTURE.

SANITARY WASTE AND VENT PIPE SHALL BE CAST IRON WITH NO-HUB FITTINGS. SCHEDULE 40 PVC PERMISSIBLE IF NOT ROUTED WITHIN A RETURN AIR PLENUM.

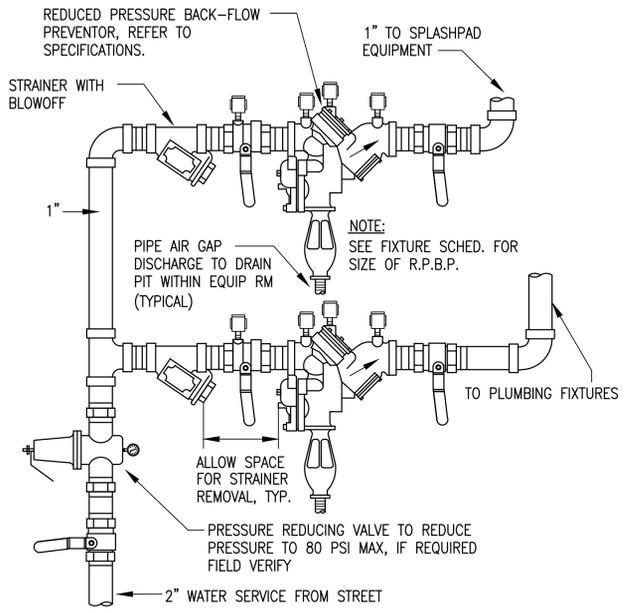
IT IS THE INTENT OF THESE DRAWINGS TO COVER ALL WORK FOR A COMPLETE FIRST CLASS PLUMBING INSTALLATION - ANY EQUIPMENT, TRIM HARDWARE AND/OR DEVICES USUALLY CLASSIFIED IN THIS CLASS OF WORK, THOUGH NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS, BUT WHICH MAY BE NECESSARY FOR THE SATISFACTORY COMPLETION OF THE WORK (AS DETERMINED BY THE CONSTRUCTION MANAGER) SHALL BE FURNISHED AND INSTALLED BY THE PLUMBING CONTRACTOR AS PART OF HIS TOTAL WORK.

NOTE: CONTRACTOR MUST INSTALL RPBP WITH ALL REQUIRED CLEARANCES AS DICTATED BY LOCAL AUTHORITY HAVING JURISDICTION. COORDINATE WITH LOCAL UTILITY DEPARTMENT AND CITY REQUIREMENTS. ALERT ARCHITECT AND ENGINEER TO ANY DISCREPANCIES PRIOR TO PURCHASE AND INSTALLATION



**ELECTRIC INSTANTANEOUS WATER HEATER
DOUBLE SINK INSTALLATION DETAIL**

SCALE: NONE



**REDUCED PRESSURE BACKFLOW
PREVENTER SCHEMATIC**

SCALE: NONE

PLUMBING SCHEDULE

MARK	DESCRIPTION	UTILITIES			
		CW	HW	DR	VENT
WC-1	WATER CLOSET (ACCESSIBLE, WALL HUNG, FLUSH VALVE): AMERICAN STANDARD 2257.101, AFWALL, WALL HUNG, WATERSAVER, VITREOUS CHINA, ELONGATED BOWL WITH A SLOAN REGAL 116-ADA FLUSH VALVE AND A BEMIS 1655CT WHITE OPEN FRONT SEAT. PROVIDE A JOSAM FIG. NO. 14464 OR 14484 CARRIER. MOUNT FIXTURE WITH FLOOD RIM 16-3/4" AFF. INSTALL WITH HANDLE ON 'OPEN-SIDE' OF TOILET FOR EASE OF ACCESS (FIELD COORDINATE)	1"	X	4"	2"
WC-2	WATER CLOSET (WALL HUNG, FLUSH VALVE): AMERICAN STANDARD 2257.101, AFWALL, WALL HUNG WATER SAVER, VITREOUS CHINA, ELONGATED BOWL WITH A SLOAN REGAL 111-XL FLUSH VALVE AND A BEMIS 1655CT WHITE OPEN FRONT SEAT. PROVIDE A JOSAM FIG. NO. 14464 OR 14484 CARRIER. MOUNT FIXTURE WITH FLOOD RIM 15" AFF.	1"	X	4"	2"
LAV	LAVATORY (ACCESSIBLE, WALL HUNG, SINGLE LEVER, GRID DRAIN): AMERICAN STANDARD 2175.504 FAUCET, AMERICAN STANDARD 7723.018 OFFSET GRID DRAIN, AN EBC TA125 P-TRAP AND(2) LA-10 SUPPLIES WITH STOPS. PROVIDE A JOSAM FIG. NO. 17100-67 CARRIER AND A TRUEBRO INC., HANDI-LAV-GUARD INSULATION KIT MODEL 102W WITH ACCESSORY 105W. MOUNT FIXTURE WITH FLOOD RIM 34" A.F.F. PROVIDE TEMPERATURE LIMITING VALVE FOR MAX. 110° F HOT WATER.	1/2"	1/2"	1 1/4"	1 1/4"
UR-1	URINAL (ACCESSIBLE, WALL HUNG, FLUSH VALVE): AMERICAN STANDARD 6501.010, KOHLER K-4960-T, VITREOUS CHINA, URINAL WITH ELONGATED RIM AND A 3/4" TOP SPUD. PROVIDE A ZURN Z-6003XL-WS1 FLUSH VALVE. PROVIDE A JOSAM FIG. NO. 17810 CARRIER. MOUNT FIXTURE WITH ELONGATED RIM 17" A.F.F. AND FLUSH VALVE HANDLE NO MORE THAN 44" A.F.F.	3/4"	X	2"	1 1/2"
UR-2	URINAL (WALL HUNG, FLUSH VALVE): AMERICAN STANDARD 6501.010, WASHBROOK, WATERSAVER VITREOUS CHINA URINAL WITH A 3/4" TOP SPUD AND A SLOAN REGAL 186-1-XL FLUSH VALVE. PROVIDE A JOSAM FIG. NO. 17810 CARRIER.	3/4"	X	2"	1 1/2"
FD-1	FLOOR DRAIN (3"): JOSAM FIG. NO. 30003-6S-Y-ARE WITH PUSH-ON CONNECTION AND A 6" ROUND, NICKEL, BRONZE STRAINER.	X	X	3"	1 1/2"
FD-2	FLOOR DRAIN (4"): JOSAM FIG. NO. 30003-6S-Y-ARE WITH PUSH-ON CONNECTION AND A 6" SQUARE, NICKEL, BRONZE STRAINER.	X	X	4"	2"
HB1	HOSE BIBB (NON-FREEZE, KEYS HANDLE): WOODFORD MODEL 65, 3/4", AUTOMATIC DRAINING BRASS FINISH, NIDEL MODEL 34HA VACUUM BREAKER. PROVIDE LOOSE TEE KEY FOR EACH HYDRANT.	3/4"	X	X	X
HB2	HOSE BIBB (STANDARD): WATTS MODEL SC-4, 3/4" HOSE BIBB WITH A 8-A VACUUM BREAKER.	3/4"	X	X	X
ICO	INTERIOR CLEAN-OUT ZURN #Z-1400-T WITH FLANGE & C.C. (SEE PLANS FOR SIZES)	X	X	X	X
ECO	EXTERIOR CLEAN-OUT ZURN #1400 WITH HEAVY DUTY COVER PLATE (SEE PLANS FOR SIZES)	X	X	X	X
WH	WATER HEATER (ELECTRIC, 6 GALLON, 1.5 KW): A. O. SMITH MODEL EJC-6, 6 GALLON ENERGY EFFICIENT WATER HEATER RATED AT 1.5 KW, 120-1-60. FURNISHED WITH LOCHINVAR MODEL #1 SHELF. PROVIDE PAN AND INSTALL HEATER PER DETAIL ON CONTRACT DRAWINGS.	3/4"	3/4"	X	X
RPBP-1	REDUCED PRESSURE BACKFLOW PREVENTER: WATTS MODEL 909-OT-S, 2" REDUCED PRESSURE BACKFLOW PREVENTER WITH A MODEL 909-AG AIR GAP DRAIN. INSTALL UNIT WITH CENTERLINE A MAXIMUM OF 4'-6" AFF. REFER TO DETAIL ON DRAWINGS.	2"	X	X	X
RPBP-2	REDUCED PRESSURE BACKFLOW PREVENTER: WATTS MODEL 909-OT-S, 1" REDUCED PRESSURE BACKFLOW PREVENTER WITH A MODEL 909-AG AIR GAP DRAIN. INSTALL UNIT WITH CENTERLINE A MAXIMUM OF 4'-6" AFF. REFER TO DETAIL ON DRAWINGS.	1"	X	X	X
WH-1	WATER HEATER (INSTANTANEOUS, 4.1KW): EEMAX MODEL SP4208, 4.1KW, 208V, SINGLE PHASE, 19.7 AMPS.	1/2"	1/2"	X	X
WH-2	WATER HEATER (INSTANTANEOUS, 4.1KW): EEMAX MODEL SP4208, 4.1KW, 208V, SINGLE PHASE, 19.7 AMPS.	1/2"	1/2"	X	X
WH-3	WATER HEATER (INSTANTANEOUS, 4.1KW): EEMAX MODEL SP4208, 4.1KW, 208V, SINGLE PHASE, 19.7 AMPS.	1/2"	1/2"	X	X
MS	MOP SINK : REGENCY MODEL "REGENCY 25" 25"x21"x12" (EXTERNAL DIMENSIONS) SERVICE BASIN. COMPLETE WITH CHICAGO MODEL 897-RCF CHROME PLATED SPOUT WITH VACUUM BREAKER, 3/4" HOSE THREAD OUTLET, PAIL HOOK. WALL SUPPORT, INTEGRAL STOPS, MODEL 369 2 1/2" METAL LEVER HANDLES AND 36" LENGTH OF THREADED HOSE. CONTRACTOR TO DETERMINE EXISTING CLEARANCES AT INSTALL LOCATION PRIOR TO PURCHASING TO ENSURE PROPER FIT.	1/2"	1/2"	3"	1 1/2"

CADD FILE NO.

GENERAL MECHANICAL SPECIFICATIONS

FURNISH, INSTALL, PROVIDE AND MAKE OPERATIVE ALL EQUIPMENT, MATERIALS, SUPERVISION, LABOR AND ANY AND ALL ITEMS NECESSARY FOR THE PROPER INSTALLATION OF A CORRECTLY FUNCTIONING MECHANICAL SYSTEM AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN.

EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. EQUALS SHALL BE ACCEPTED FOR EQUIPMENT UNLESS OTHERWISE NOTED.

ORDINANCES, PERMITS AND CODES: THE WORKMANSHIP AND MATERIALS COVERED BY THESE SPECIFICATIONS SHALL CONFORM TO ALL REGULATIONS OF ALL THE AUTHORITIES HAVING JURISDICTION.

THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, CONNECTION AND INSPECTION FEES AS REQUIRED FOR THE COMPLETE INSTALLATION OF THE MECHANICAL SYSTEM.

THE LOCATION OF DUCTS, PIPE AND EQUIPMENT, AS SHOWN ON THE DRAWINGS, IS DIAGRAMMATIC AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE HIS OWN WORKING LAYOUT TO ELIMINATE ALL STRUCTURAL AND ARCHITECTURAL CONFLICTS IN THE BUILDING.

VERIFY ALL MEASUREMENTS AT THE SITE AND COORDINATE ALL WORK SO THAT IT DOES NOT INTERFERE WITH THE WORK OF THE OTHER TRADES.

INSULATION: ALL INSULATION, INCLUDING JACKET, OR FACING AND ADHESIVE USED TO ADHERE FACING OR JACKET TO THE INSULATION SHALL HAVE A COMPOSITE FIRE AND SMOKE HAZARD RATING TESTED BY THE PROCEDURE RECOMMENDED BY ASTM E-84, NFPA 225 OR U.L. 723, NOT EXCEEDING: FLAME SPREAD 25, SMOKE DEVELOPED 50. ALL INSULATION ACCESSORIES SHALL ALSO HAVE THE RATING LISTED ABOVE.

SUPPLY AIR DUCT SHALL BE INSULATED EXTERNALLY WITH 2 INCH THICK, R-5, 0.75 PSF DENSITY FIBERGLASS INSULATION INCLUDING A VAPOR BARRIER.

EXHAUST DUCT IS NOT REQUIRED TO BE INSULATED.

ALL DUCTWORK SHALL BE CONSTRUCTED OF THE BEST BLOOM GALVANIZED SHEETS, FREE FROM BUSTER AND IMPERFECTIONS, AND WITH GAUGES, JOINTS, BRACING AND SUPPORTS IN STRICT ACCORDANCE WITH SMACNA STANDARDS. DUCT SIZES SHOWN ON THE DRAWINGS ARE NET INSIDE CLEAR. SCREWS SHALL BE CADMIUM PLATED. ROUND DUCT RUN-OUTS SHALL BE MIN. 26 GA. SHEET METAL. HANGERS SHALL BE 1" x 1/8" GALV. BAND 4' ON CENTER.

FLEXIBLE DUCT SHALL NOT BE USED ON THIS PROJECT. ALL DUCTS AND FITTINGS SHALL BE RIGID SHEET METAL AS DESCRIBED ABOVE.

PROVIDE FLEXIBLE NEOPRENE DUCT CONNECTORS ON THE DISCHARGE AND ENTERING SIDES OF ALL VIBRATING EQUIPMENT TO WHICH DUCTWORK IS ATTACHED.

DUCT SIZES SHOWN ON DRAWINGS ARE INSIDE CLEAR DIMENSIONS.

ALL PIPING, DUCTS, VENTS, ETC EXTENDING THRU THE WALL SHALL BE FLASHED AND COUNTERFLASHED IN A WATERPROOF MANNER. NO PIPING, DUCTS OR VENTS SHALL PENETRATE THE ROOF OF THIS STRUCTURE.

ALL VALVES AND PIPING SPECIALTIES SHALL BE LINE SIZED UNLESS NOTED OTHERWISE - USE ECCENTRIC REDUCERS ON CONTROL VALVES WHERE REQUIRED.

INSTALL MANUAL VOLUME DAMPERS AT EACH BRANCH RUN-OUT.

ALL UNITS SHALL BE BALANCED TO WITHIN 5% OF THE DESIGN AIR QUANTITY. BALANCE DIFFUSERS AND REGISTERS TO QUANTITIES SHOWN ON DRAWINGS.

HVAC CONTRACTOR SHALL LEAVE HIS WORK IN PERFECT WORKING CONDITION AND SHALL GUARANTEE SAME FOR A PERIOD OF TWELVE (12) MONTHS FROM DATE OF FINAL ACCEPTANCE.

IT IS THE INTENT OF THESE DRAWINGS TO COVER ALL WORK FOR A COMPLETE FIRST CLASS MECHANICAL INSTALLATION - ANY EQUIPMENT, TRIM HARDWARE AND/OR DEVICES USUALLY UTILIZED IN THIS CLASS OF WORK, THOUGH NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS, BUT WHICH MAY BE NECESSARY FOR THE SATISFACTORY COMPLETION OF THE WORK (AS DETERMINED BY THE CONSTRUCTION MANAGER) SHALL BE FURNISHED AND INSTALLED BY THE HVAC CONTRACTOR AS PART OF HIS TOTAL WORK.

ELECTRIC HEATER SCHEDULE

IDENTIFICATION	EH-1
MANUFACTURER	INDEECO
SERIES	QUA
HEAT CAPACITY (kW)	12
SIZE (IN)	12" x 8"
VOLTAGE / PHASE	240/1Ø
ACCESSORIES REQUIRED:	A, B, C, D, E, F
NOTES:	
A: UNITS SHALL BE U.L. LISTED	
B: THERMAL OVERLOAD PROTECTION	
C: OPEN COIL HEATING ELEMENT	
D: 24 VOLT TRANSFORMER	
E: FAN INTERLOCK	
F: AIRFLOW SWITCH	

MECHANICAL LEGEND

SYMBOL	DESCRIPTION
	NEW SUPPLY AIR DUCTWORK
	NEW EXHAUST DUCTWORK
	MANUAL VOLUME DAMPER
	SUPPLY FAN
	EXHAUST FAN
	AIR DISTRIBUTION IDENTIFICATION (REFER TO AIR DISTRIBUTION SCHEDULE)
	EQUIPMENT LABEL (SEE MECH. EQUIP. SCHEDULE FOR INFO.)
	WALL MOUNTED THERMOSTAT (52" A.F.F.)
	DUCT MOUNTED TEMPERATURE SENSOR
	DIRECTION OF AIR FLOW

FAN SCHEDULE

FAN IDENTIFICATION	EF-1	SF-1	VF-1
MANUFACTURER	COOK	COOK	COOK
MODEL NUMBER	GN-622	GN-720	12S15D
SERVICE TYPE	TOILET EXHAUST	MAKE-UP AIR SUPPLY	VENTILATION
FAN TYPE	IN-LINE	IN-LINE	WALL-PROP
CFM	420	470	600
ESP	0.35	0.50	0.15
SONES	3.0	3.0	3.0
MOTOR HP	137 WATTS	175 WATTS	1/8 HP
VOLTAGE/PHASE	120/1Ø	120/1Ø	120/1Ø
WEIGHT	32 LBS.	36 LBS.	36 LBS.
ACCESSORIES REQUIRED	A, B	B, C	B, D
ACCESSORIES:			
A: BACKDRAFT DAMPER		C: WALL MTD THERMOSTAT	
B: SUPPORT FROM STRUCTURE		D: WALL MTD SWITCH	
REMARKS:			
EF-1 TO BE CONTROLLED BY OCCUPANCY SENSORS IN RESTROOMS.			
SF-1 TO BE ENERGIZED WHEN EF-1 IS ENERGIZED. SF-1 SHALL OPERATE INDEPENDENT OF EF-1 IF THERMOSTAT CALLS FOR HEAT			

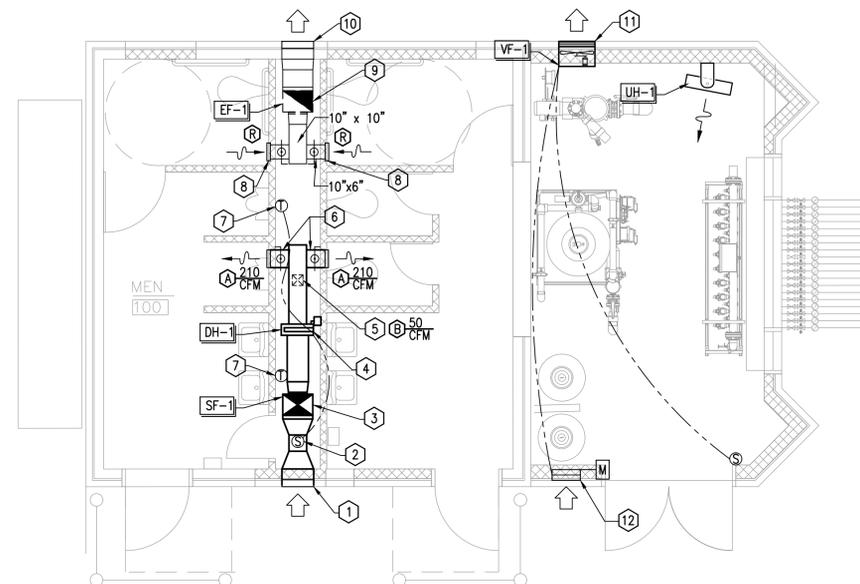
AIR DISTRIBUTION SCHEDULE

SYMBOL	MFR. & MODEL #	DEVICE	FACE	SIZE	VOLUME CONTROL	COLLAR SIZE	REMARKS
	PRICE MOD. 910	SUPPLY GRILLE	LOUVERED	10" x 6"	-	-	SEE NOTES
	PRICE MOD. 91	SUPPLY GRILLE	LOUVERED	6" x 6"	-	-	SEE NOTES
	PRICE MOD. 91FH	RETURN GRILLE	LOUVERED	10" x 6"	-	-	SEE NOTES

NOTES:
 1. AIR DEVICE COLORS TO BE SPECIFIED BY ARCHITECT
 2. PROVIDE SURFACE MTD. TYPE BORDER FOR GYPBOARD WALLS.
 3. ALL AIR DEVICES TO BE HEAVY-DUTY STEEL CONSTRUCTION.

MECHANICAL DRAWING NOTES

- FURNISH AND INSTALL RUSKIN ELF375DXH 18"x18" FRESH AIR INTAKE LOUWER AS HIGH AS POSSIBLE WITHIN BRICK WALL AT BUILDING EXTERIOR.
- DUCT MOUNTED AIR TEMPERATURE SENSOR IN FRESH AIRSTREAM TO ACTIVATE ELECTRIC DUCT HEATER WHEN OUTDOOR AIR IS BELOW 55F
- SUPPLY FAN AND ASSOCIATED DUCTWORK INSTALLED WITHIN PLUMBING CHASE/CLOSET.
- ELECTRIC DUCT HEATER (SLIDE-IN TYPE) LOCATED TO PROVIDE MFR. RECOMMENDED DUCT LENGTHS BEFORE AND AFTER HEATER
- SUPPLY AIR GRILLE MOUNTED ON BOTTOM OF DUCT WITH INTEGRAL DAMPER. BALANCE TO AIRFLOW QUANTITY INDICATED.
- EXTEND 10"x6" BRANCH SUPPLY DUCT TO CONNECT TO 10"x6" SUPPLY GRILLE. BALANCE TO AIRFLOW INDICATED.
- WALL MOUNTED THERMOSTAT LOCATED WITHIN PLUMBING CHASE/CLOSET TO ACTIVATE SUPPLY FAN AND HEATER WHEN SPACE TEMPERATURE IS BELOW 50F. THERMOSTAT CONTROL SHALL OVERRIDE OCCUPANCY SENSOR CONTROL OF EXHAUST FAN/SUPPLY FAN.
- HEAVY DUTY STEEL EXHAUST GRILLE FLUSH WITH WALL SURFACE. EXHAUST DUCT PENETRATES CHASE WALL BELOW BOND BEAM (FIELD COORDINATE WITH STRUCTURE)
- EXHAUST FAN AND ASSOCIATED DUCTWORK INSTALLED WITHIN PLUMBING CHASE/CLOSET.
- FURNISH AND INSTALL RUSKIN ELF375DXH 18"x18" EXHAUST AIR LOUWER AS HIGH AS POSSIBLE WITHIN BRICK WALL AT BUILDING EXTERIOR.
- RUSKIN L330 18" x 18" STEEL, STATIONARY EXHAUST LOUWER INSTALLED AT FAN OUTLET IN EXTERIOR WALL.
- RUSKIN ELM6375DX 24" x 18" ALUMINUM INTAKE LOUWER WITH MIN. 0.85 F² FREE AREA, BIRDSCREEN, WALL SLEEVE, AND MOTORIZED ACTUATOR TO INTERLOCK WITH VENTILATION FAN "VF-1".



MECHANICAL FLOOR PLAN

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



Jerry W. Reynolds architect

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 GOODLETTSVILLE, TN 37072-3517
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 Project #17-178

LOCAL PARK AND RECREATION FUND
 THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
 RESTROOM / EQUIPMENT BUILDING
PEAY PARK SPLASH PAD
 GOODLETTSVILLE, TENNESSEE

PROJECT INFORMATION

REVISION 1	02.20.18
NO. DATE	BY REVISION
DRAWN BY	MWD / SCT
DESIGNED BY	EGC
APPROVED BY	EGC
ARCH JOB NO.	517A556
DATE	01/30/2018
SCALE	NOTED

MECHANICAL FLOOR PLAN

DRAWING NUMBER

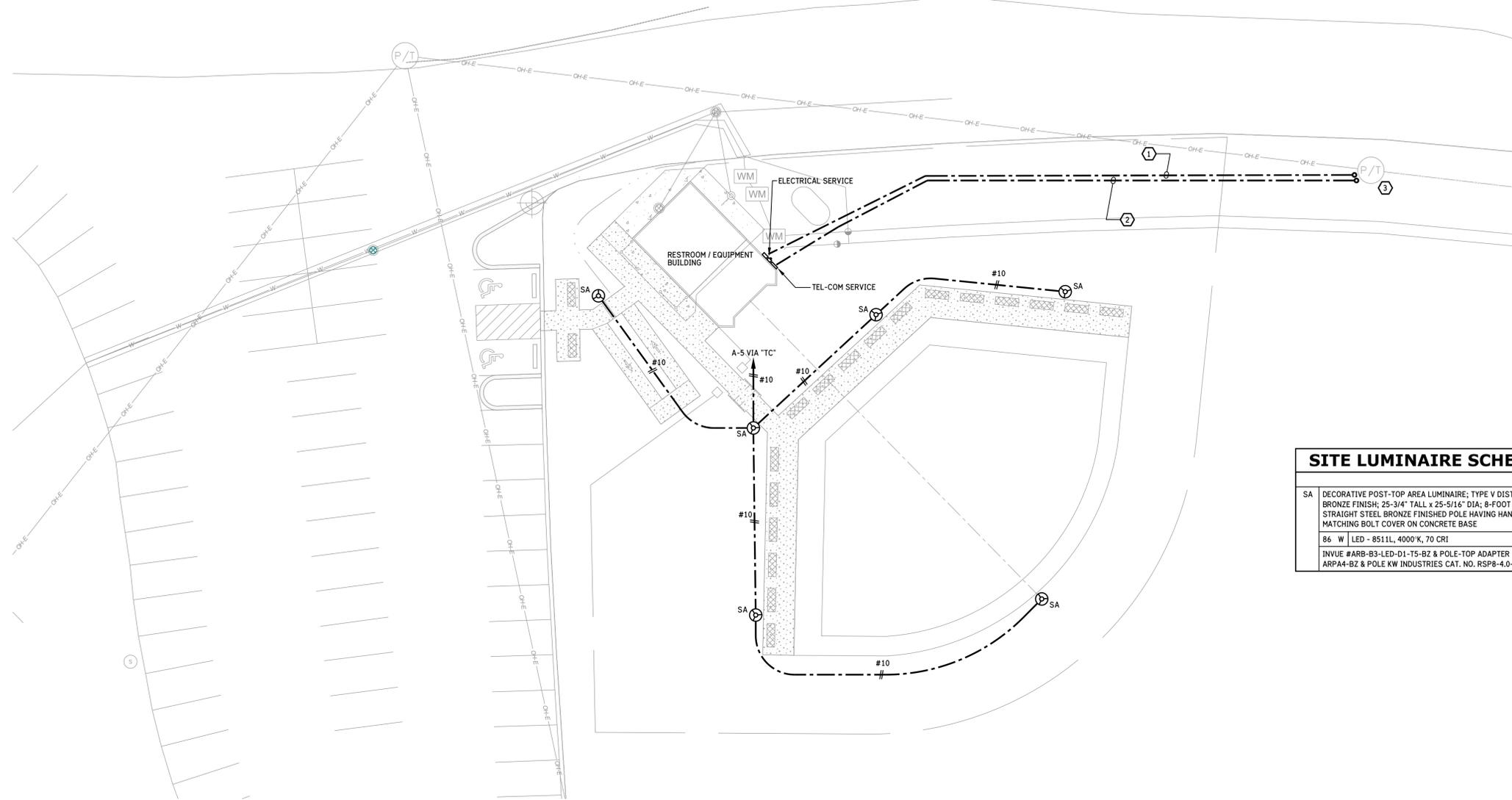
M1.0

CADD FILE NO.



RESERVED FOR A/E SEAL

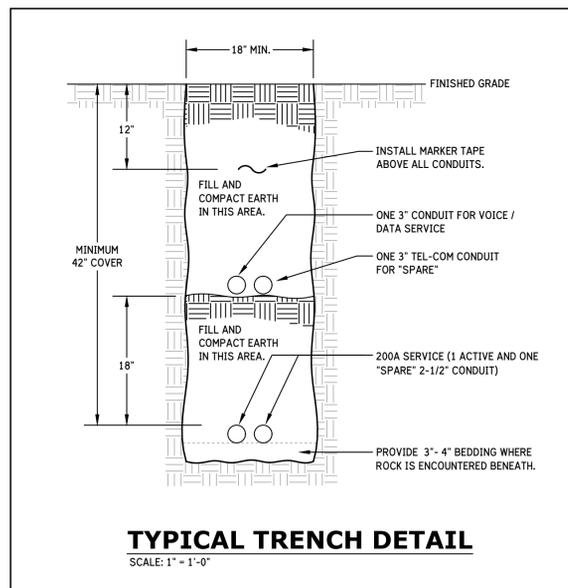
RESERVED FOR CONSULTANT LOGO



SITE LUMINAIRE SCHEDULE	
SA	DECORATIVE POST-TOP AREA LUMINAIRE; TYPE V DISTRIBUTION; BRONZE FINISH; 25-3/4" TALL x 25-5/16" DIA; 8-FOOT ROUND STRAIGHT STEEL BRONZE FINISHED POLE HAVING HAND HOLE AND MATCHING BOLT COVER ON CONCRETE BASE
86 W	LED - 8511L, 4000°K, 70 CRI
	INVUE #ARB-B3-LED-D1-T5-BZ & POLE-TOP ADAPTER CAT. NO. ARPA4-BZ & POLE KW INDUSTRIES CAT. NO. RSP8-4.0-11-BRZ-OT-BC

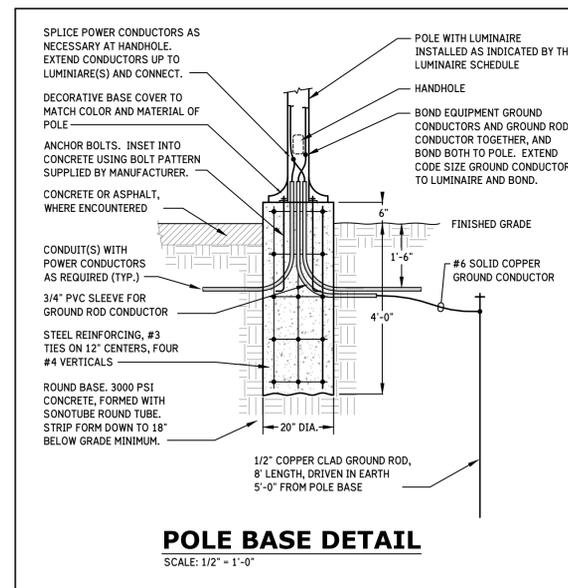
ELECTRICAL SITE PLAN

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



TYPICAL TRENCH DETAIL

SCALE: 1" = 1'-0"



POLE BASE DETAIL

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

GENERAL NOTES:

- VERIFY AND COMPLY WITH ALL POWER COMPANY REQUIREMENTS, STANDARDS, AND DETAILS FOR ALL WORK RELATED TO PROVISION OF ELECTRICAL SERVICE TO FACILITY. COORDINATE ALL WORK WITH POWER COMPANY REPRESENTATIVE.
- VERIFY AVAILABLE AND OWNER'S PREFERRED TELECOM SERVICE PROVIDERS, AND VERIFY AND COMPLY WITH ALL TELECOM SERVICE PROVIDER REQUIREMENTS, STANDARDS, AND DETAILS FOR ALL WORK RELATED TO PROVISION OF TELECOM SERVICES TO FACILITY. COORDINATE ALL WORK WITH TELECOM SERVICE PROVIDERS REPRESENTATIVES.
- THOROUGHLY COORDINATE ALL UNDERGROUND ELECTRICAL WORK WITH THE WORK OF ALL OTHER TRADES TO AVOID CONFLICTS AND DELAYS. REVIEW INTENDED ELECTRICAL ROUTINGS WITH DISCIPLINE LEAD PERSONNEL FOR EACH TRADE AND LATEST REVISION OF OTHER TRADE DRAWINGS PRIOR TO COMMENCING EACH ASPECT OF UNDERGROUND SITE ELECTRICAL INSTALLATION.
- PROVIDE POLE BASE, PER DETAIL, FOR EACH SITE LIGHTING POLE SHOWN ON SITE PLAN ON THIS DRAWING.
- UNLESS OTHERWISE NOTED, INSTALL LIGHT POLE BASES HORIZONTALLY CENTERED 24" BACK FROM WALKWAY PAVEMENT.

KEYED NOTES:

- 200A UG ELECTRICAL SERVICE LATERAL TO FACILITY. SEE "POWER RISER DIAGRAM".
- PROVIDE (2) 3-INCH EMPTY UG CONDUITS, 1 EACH FOR VOICE / DATA SERVICE AND "SPARE" TELECOM TO FACILITY. ROUTED FROM TELECOM DEMARC LOCATION ON BUILDING EXTERIOR TO EXISTING UTILITY POLE. ROUTE UP POLE AND TERMINATE AT POLE END PER TELECOM SERVICE PROVIDER DIRECTION. STUB UP TO 18" AFG, CAP, AND SECURE TO EXTERIOR WALL AT BUILDING END.
- EXISTING UTILITY COMPANY POLE, ON WHICH ELECTRIC SERVICE TRANSFORMERS AND TELECOM SERVICE FOR FACILITY WILL BE LOCATED.

LOCAL PARK AND RECREATION FUND
 THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
 RESTROOM / EQUIPMENT BUILDING
PEAY PARK SPLASH PAD
 GOODLETTSVILLE, TENNESSEE

PROJECT INFORMATION

NO. DATE BY REVISION

DRAWN BY JAMES REED

DESIGNED BY JAMES REED

APPROVED BY JAMES REED

JOB NO. 5171556

DATE 2/9/2018

SCALE AS NOTED

ELECTRICAL SITE PLAN, SITE DETAILS

DRAWING NUMBER

E1.1

CADD FILE NO.



RESERVED FOR A/E SEAL

RESERVED FOR CONSULTANT LOGO

LOCAL PARK AND RECREATION FUND
THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
RESTROOM / EQUIPMENT BUILDING

PEAY PARK SPLASH PAD
GOODLETTSVILLE, TENNESSEE

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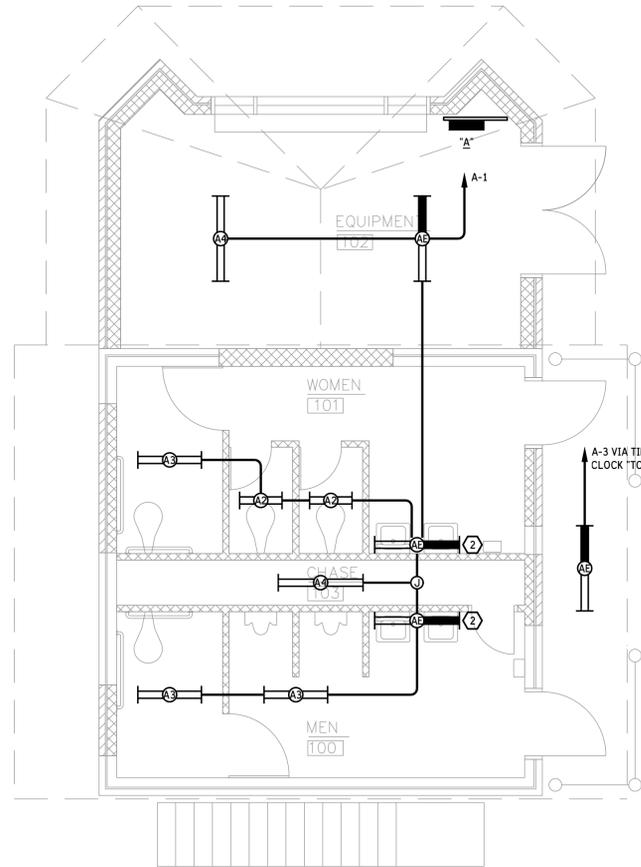
SCALE AS NOTED

FLOOR PLANS,
LEGEND, NOTES,
DETAILS,
SCHEDULES

DRAWING NUMBER

E2.1

CADD FILE NO.

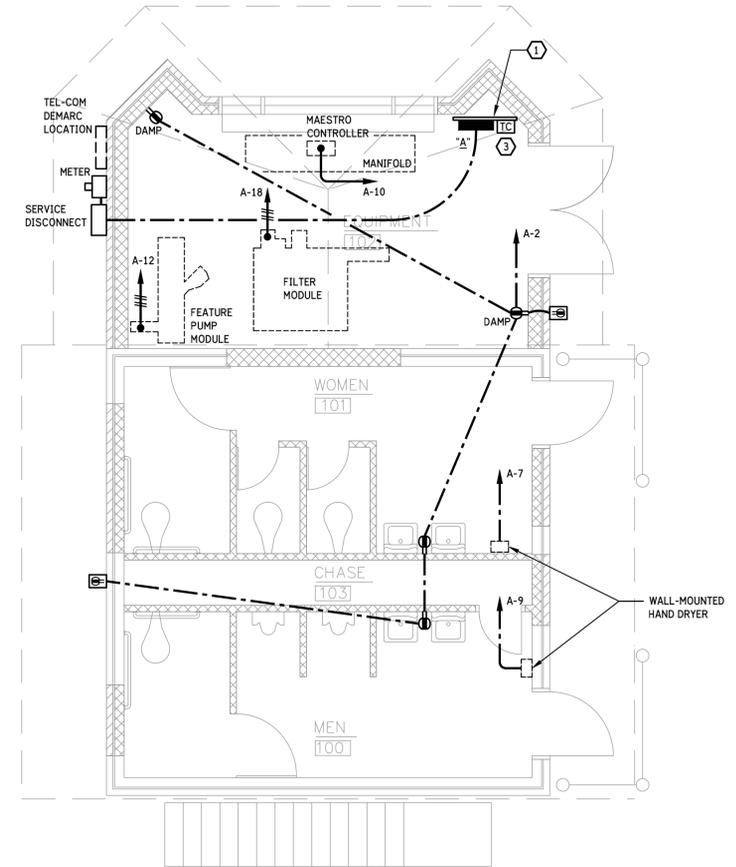


GENERAL NOTES:

- A. BASIS OF DESIGN IS VENDOR DRAWINGS PROVIDED TO ENGINEER FOR "PEAY PARK SPLASH PAD - PHASE 1", REV00, DATED 13/NOV/2017, PREPARED BY VORTEX USA INC. OF CARROLTON, TEXAS. OBTAIN AND COORDINATE ELECTRICAL WORK WITH LATEST REVISION OF THESE DRAWINGS, OR OTHERS AS DIRECTED BY ARCHITECT AND / OR OWNER.
- B. FIELD VERIFY EXACT LOCATION OF ALL EQUIPMENT IN EQUIPMENT ROOM, AND COORDINATE EQUIPMENT ARRANGEMENT WITH EQUIPMENT VENDOR'S REPRESENTATIVE PRIOR TO ROUGH-IN OF ANY ELECTRICAL SERVICE TO EQUIPMENT.
- C. ELECTRICAL SERVICE TO AND CONNECTIONS TO EQUIPMENT ARE REQUIRED TO BE MADE USING NEMA 4X COMPONENTS.

KEYED NOTES:

- 1 PROVIDE ELECTRICAL EQUIPMENT SUPPORT RACK OF 1-5/8" x 1-5/8" STEEL FRAMING CHANNEL, EQUIVALENT TO ATKORE "UNISTRUT", COOPER "B-LINE", OR T&B "KINDORF" PRODUCT, SECURED TO WALL AND FLOOR AT BOTH ENDS WITH DEVICES AND FITTINGS OFFERED BY MANUFACTURER FOR THE APPLICATION.
- 2 SPECIFIED LUMINAIRE IS NOT WALL-MOUNTED. INSTALL CEILING-MOUNTED TIGHT TO WALL.
- 3 TIME SWITCH "TS" FOR CONTROL OF EXTERIOR BUILDING-MOUNTED LIGHTING - INSTALL 6'-0" AFF TO TOP. PROVIDE 7-DAY ASTRONOMIC SWITCH, DPST, RATED 40A PER POLE, 120-277VAC, 100-HOUR CAPACITOR-DRIVEN BACK-UP, NEMA 3R, EQUIVALENT TO TORK MODEL EW2103.



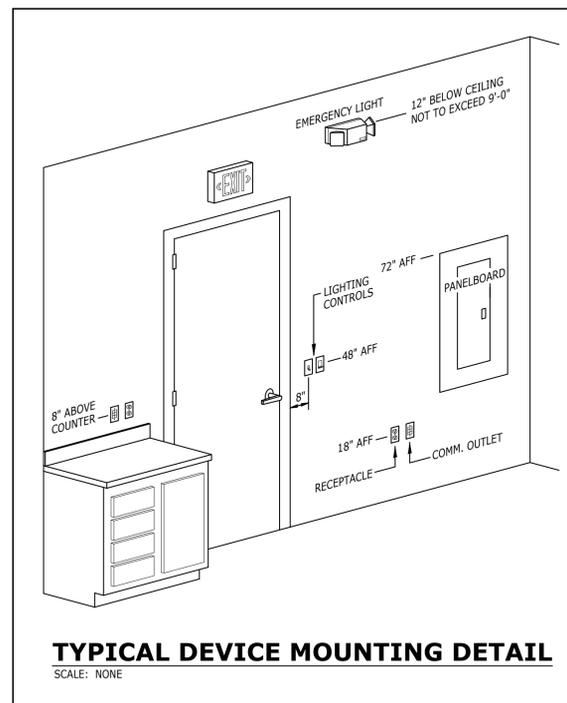
RESTROOM / EQUIPMENT BUILDING LIGHTING PLAN

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

RESTROOM / EQUIPMENT BUILDING POWER PLAN

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

LEGEND	
	LINEAR TYPE LUMINAIRE - "A2" (ETC.) REFERS TO DESIGNATION IN LUMINAIRE SCHEDULE.
	HALF SHADING INDICATES LUMINAIRE PROVIDED WITH EMERGENCY BATTERY BACKUP POWER, INTEGRAL TO LUMINAIRE.
	POST TOP MOUNTED AREA / SITE LUMINAIRE - "SA" REFERS TO DESIGNATION IN LUMINAIRE SCHEDULE.
	GROUND FAULT CIRCUIT INTERRUPTING DUPLEX RECEPTACLE - 120-VOLT, 20-AMP DUPLEX RECEPTACLE WITH INTEGRAL GFCI PROTECTION AND SELF-TESTING.
	DAMP LOCATION GROUND FAULT CIRCUIT INTERRUPTING DUPLEX RECEPTACLE - INSTALLED WITH AN ALUMINUM FLIP-OPEN STYLE DAMP LABEL COVER.
	WEATHERPROOF CONTINUOUS USE RECEPTACLE - 120-VOLT, 20-AMP WEATHER RESISTANT (WR) GFCI RECEPTACLE INSTALLED IN ALUMINUM "WHILE-IN-USE" COVER, THOMAS & BETTS RED-DOT #CKMUV OR EQUAL.
	JUNCTION BOX - SIZE AND USE AS REQUIRED.
	PANELBOARD - FLUSH OR SURFACE MOUNTED AS INDICATED. MOUNT TOP OF PANEL AT 6'-0" OR AT NEAREST MASONRY JOINT. "A" INDICATES THE PANEL DESIGNATION. SEE PANELBOARD SCHEDULE FOR PANELBOARD REQUIREMENTS.
	TIME CLOCK FOR CONTROL OF EXTERIOR BUILDING-MOUNTED LIGHTING - INSTALL 6'-0" AFF TO TOP. PROVIDE 7-DAY ASTRONOMIC SWITCH, DPST, RATED 40A PER POLE, 120-277VAC, 100-HOUR CAPACITOR-DRIVEN BACK-UP, NEMA 4X ENCLOSURE, EQUIVALENT TO TORK MODEL EW2103.
	CONDUIT OR CABLE INSTALLED IN CEILING OR WALL CONSTRUCTION.
	HOMERUN - EXTEND CONDUIT TO THE PANELBOARD BREAKER(S) OR DEVICE INDICATED. CIRCUITS SHARING A COMMON NEUTRAL SHALL BE CONNECTED TO DIFFERENT PHASES WITHIN THE PANELBOARD REGARDLESS OF THE NUMBERING ON THE DRAWINGS.
	CROSSHATCHES INDICATE THE NUMBER OF CONDUCTORS IN A CIRCUIT, WHERE GREATER THAN TWO. CONDUCTORS SHALL BE A MINIMUM OF #12 FOR CIRCUITS RATED MORE THAN 50-VOLTS. CONDUITS SHALL BE 3/4" MINIMUM. ALL CIRCUITS SHALL BE PROVIDED WITH A GREEN CODE-SIZED EQUIPMENT GROUNDING CONDUCTOR.
	CONDUIT OR CABLE INSTALLED UNDERGROUND OR BENEATH THE FLOOR STRUCTURE.



TYPICAL DEVICE MOUNTING DETAIL

SCALE: NONE

DESIGNATION	VOLTS: 208Y/120 3 PHASE 4 WIRE		A4: 6.0 KW		B4: 5.6 KW		C4: 4.2 KW		TOTAL: 15.8 KW
	AMPS: 225	MAIN: LUIGS	TRIM: SURFACE	ENCL: NEMA 4X	SCCR: 25 KA	WxD: 22' x 6'			
DESCRIPTION	BKR	KW	A	B	C	KW	BKR	DESCRIPTION	
LTG - RR / EQUIP BLDG 1ST FLR INDOOR	20 / 1	0.4	1	2	1.0	20 / 1	RCPTS - RR / EQUIP BLDG 1ST FLR		
LTG - RR / EQUIP BLDG 1ST FLR EXTERIOR	VIA TC	20 / 1	0.1	3	4	20 / 1	S P A R E		
LTG - SITE	20 / 1	0.6	5	5	20 / 1	S P A R E			
HAND DRYER - WOMEN	20 / 1	1.0	7	8	20 / 1	S P A R E			
HAND DRYER - MEN	20 / 1	1.0	9	10	0.9	20 / 1	MAESTRO CONTROLLER		
S P A R E	20 / 1	11	12	1.8	20 / 1	FEATURE PUMP MODULE			
S P A R E	20 / 1	13	14	1.8	---	---			
S P A R E	20 / 1	15	16	1.8	3	---			
PROVISION	17	18	1.8	20	---	---			
PROVISION	19	20	1.8	---	---	---			
PROVISION	21	22	1.8	3	---	---			
PROVISION	23	24	---	---	---	---			
PROVISION	25	26	---	---	---	---			
PROVISION	27	28	---	---	---	---			
PROVISION	29	30	---	---	---	---			

LUMINAIRE SCHEDULE	
A2	NOMINAL 2-FOOT x 9"W x 4"D LUMINAIRE; IP-65; VANDAL RESISTANT; WET LABELED; INTEGRAL MOTION SENSOR CLG SURFACE-MOUNTED 20 W LED - NOMINAL 2000L, 3500K, 80+ CRI ECLIPSE CAT. NO. 572-SPL-20W-EBU-35K-WH-MS1
A3	NOMINAL 3-FOOT x 9"W x 4"D LUMINAIRE; IP-65; VANDAL RESISTANT; WET LABELED; INTEGRAL MOTION SENSOR CLG SURFACE-MOUNTED 40 W LED - NOMINAL 4000L, 3500K, 80+ CRI ECLIPSE CAT. NO. 573-SPL-40W-EBU-35K-WH-MS1
A4	NOMINAL 4-FOOT x 9"W x 4"D LUMINAIRE; IP-65; VANDAL RESISTANT; WET LABELED; INTEGRAL MOTION SENSOR CLG SURFACE-MOUNTED 50 W LED - NOMINAL 5000L, 3500K, 80+ CRI ECLIPSE CAT. NO. 574-SPL-50W-EBU-35K-WH-MS1
A5	NOMINAL 4-FOOT x 9"W x 4"D LUMINAIRE; IP-65 VANDAL; RESISTANT WET LABELED; INTEGRAL MOTION SENSOR INTEGRAL BATTERY BACK-UP; CEILING SURFACE-MOUNTED 50 W LED - NOMINAL 5000L, 3500K, 80+ CRI ECLIPSE CAT. NO. 574-SPL-50W-EBU-35K-WH-MS1-EL85



RESERVED FOR A/E SEAL

RESERVED FOR CONSULTANT LOGO

LOCAL PARK AND RECREATION FUND
 THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
 RESTROOM / EQUIPMENT BUILDING
PEAY PARK SPLASH PAD
 GOODLETTSVILLE, TENNESSEE

PROJECT INFORMATION

NO. DATE BY REVISION

DRAWN BY JAMES REED

DESIGNED BY JAMES REED

APPROVED BY JAMES REED

JOB NO. 5171556

DATE 2/9/2018

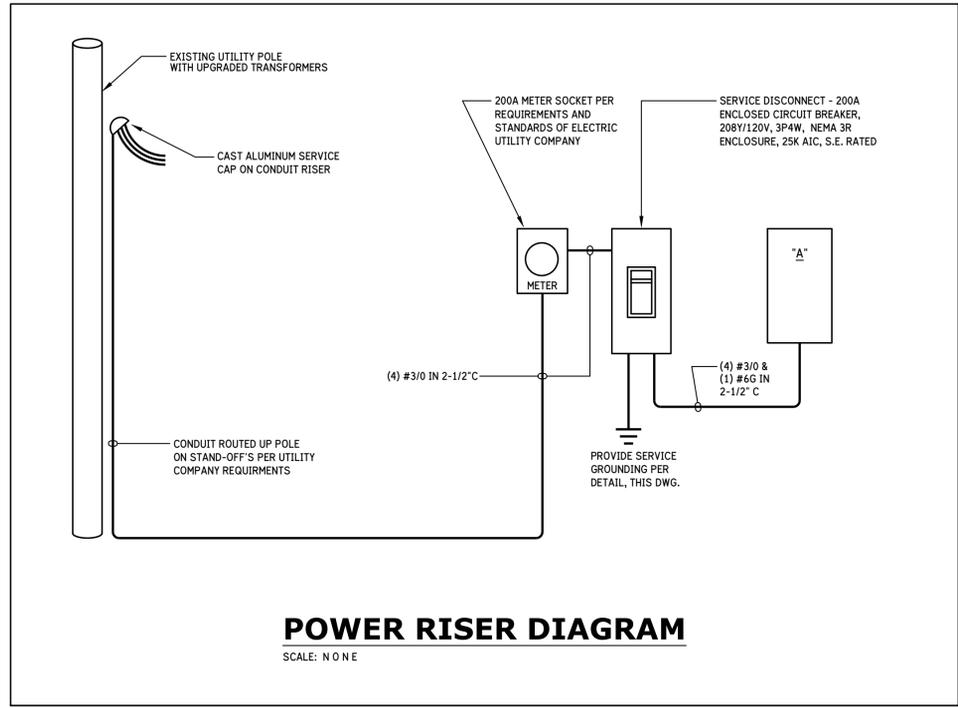
SCALE AS NOTED

RISER DIAGRAM,
 SPECIFICATIONS,
 ENERGY
 CODE COMPLIANCE

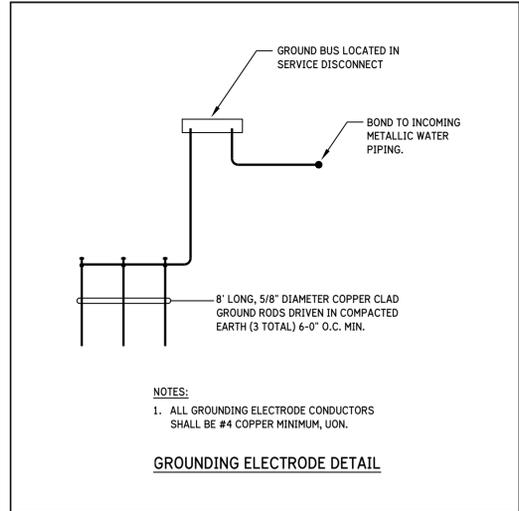
DRAWING NUMBER

E3.1

CADD FILE NO.



POWER RISER DIAGRAM
 SCALE: N O N E



NOTES:
 1. ALL GROUNDING ELECTRODE CONDUCTORS SHALL BE #4 COPPER MINIMUM, UON.
GROUNDING ELECTRODE DETAIL

SPECIFICATIONS

1.01 THE ELECTRICAL CONTRACT WORK SHALL INCLUDE ALL ELECTRICAL MATERIALS AND INSTALLATION TO RESULT IN A BUILDING READY AND SUITABLE FOR USE AS INTENDED BY OWNER. THE CONTRACTOR SHALL REFER TO ALL PLANS AND SPECIFICATIONS WITHIN THE CONTRACT DOCUMENTS TO DETERMINE THE SCOPE OF WORK FOR THE PROJECT.

1.02 ALL ELECTRICAL INSTALLATIONS SHALL BE MADE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND OTHER CODES IN FORCE WITHIN THE JURISDICTION OF THE PROJECT. ALL MATERIALS EMPLOYED SHALL BE UL LISTED AND APPROVED AND BEAR THE UL OFFICIAL LABELS WHERE SUCH LABELING IS CUSTOMARY. IN THE EVENT THAT LOCAL CODES ARE MORE RIGID THAN THE NATIONAL ELECTRIC CODE, BOTH CODES SHALL THEN BE CONSIDERED AS JOINTLY GOVERNING AND THE REQUIREMENTS OF THE MOST RIGID SHALL THEN PREVAIL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER SELECTION AND APPLICATION OF MATERIALS AND METHODS OF THEIR INSTALLATION. PRINCIPAL FEATURES ARE AS FOLLOWS:

A. LIGHTING FIXTURES AND LAMPS.
 B. ELECTRICAL SERVICE ENTRANCE.
 C. A SYSTEM OF ELECTRICAL FEEDERS, PANELBOARDS, AND BRANCH CIRCUIT WIRING TO PROVIDE A COMPLETE POWER DISTRIBUTION SYSTEM.
 D. WIRING DEVICES INCLUDING OUTLETS, SWITCHES, AND COVERPLATES.
 E. LIGHTING, INCLUDING EGRESS AND EMERGENCY LIGHTING.
 F. CONNECTION OF EQUIPMENT, INCLUDING HVAC, PLUMBING, AND OTHER EQUIPMENT AS INDICATED ON THE PLANS.
 G. RACEWAYS, OUTLET BOXES, AND OTHER PROVISIONS FOR OWNER-PROVIDED DATA NETWORK AND COMMUNICATION SYSTEMS.
 H. DEMOLITION AND REMOVAL OF EXISTING ELECTRICAL SYSTEMS.

1.03 POWER SERVICE
 A. POWER SERVICE SHALL BE 208Y/120-VOLTS, 3-PHASE, 4-WIRE.

1.04 DISTRIBUTION SYSTEM
 A. DISTRIBUTION EQUIPMENT AND BRANCH CIRCUIT PANELBOARDS SHALL BE MOLDED CASE CIRCUIT BREAKER EQUIPMENT HAVING THE NECESSARY INTERRUPTING RATINGS BUT NOT LESS THAN 10,000 AIC. GROUND FAULT SENSING AND AUTOMATIC INTERRUPTING SHALL BE FURNISHED ON ANY OUTDOOR POWER CIRCUITS AND AS OTHERWISE REQUIRED. EQUIPMENT SHALL BE SQUARE-D OR EQUAL.
 B. ALL CONDUCTORS SHALL BE COPPER.
 C. CONDUIT SHALL BE AS PERMITTED BY APPLICABLE CODES. MINIMUM CONDUIT SIZE SHALL BE 3/4-INCHES. CONDUIT FOR BUILDING INTERIOR SHALL BE ELECTRICAL METALLIC TUBING (EMT) WITH SET-SCREW FITTINGS. CONDUIT BELOW GRADE AND UNDER THE SLAB SHALL BE PVC RIGID NON-METALLIC CONDUIT (RNC). EXTERIOR CONDUIT AND CONDUIT SUBJECT TO DAMAGE SHALL GALVANIZED RIGID METAL CONDUIT (RMC). UNLESS PARTICULARLY STATED OTHERWISE, ALL CONDUIT AND WIRING SHALL BE RUN CONCEALED.
 D. WHERE ALLOWED BY CODE, INTERIOR BRANCH CIRCUITS RATED 50-AMPERES OR LESS MAY USE METAL CLAD (TYPE "MC") CABLE.

1.05 GROUNDING
 A. PROVIDE CODE GROUNDING FOR ALL INSTALLED SYSTEMS. EACH CONDUIT SHALL HAVE A GREEN, INSULATED, CODE-SIZED GROUND CONDUCTOR THAT SHALL BE BONDED TO ALL METAL PARTS. THE CONDUIT SYSTEM SHALL NOT BE USED AS THE SOLE GROUNDING PATH.

1.06 LIGHTING
 A. LIGHTING SHALL BE FURNISHED FOR ALL OCCUPIED SPACES WITHIN AND OUTSIDE THE BUILDING. LIGHTING LEVELS SHALL BE ADEQUATE FOR TASK PERFORMED AND GENERALLY COMPLY WITH IES RECOMMENDATIONS. CONTROLS SHALL BE CONVENIENT FOR THE USE INTENDED WITH LOCAL SWITCHING AND 3-WAY OR 4-WAY CONTROLS AS NECESSARY. EXTERIOR LIGHTING SHALL BE AS NOTED ON DRAWINGS.

1.07 CONNECTION OF EQUIPMENT
 A. THE ELECTRICAL CONTRACTOR SHALL CONNECT ALL MECHANICAL EQUIPMENT FURNISHED BY OTHER TRADES INCLUDING HVAC EQUIPMENT AND PLUMBING EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL REVIEW SUBMITTAL AND CUTSHEET INFORMATION OF EACH PIECE OF EQUIPMENT AND SHALL VERIFY VOLTAGE, CAPACITY AND PHASE OF EQUIPMENT PRIOR TO ROUGH-IN. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVES AND EQUIPMENT SUPPLIERS. WHERE REQUIRED, THE ELECTRICAL CONTRACTOR SHALL FURNISH DISCONNECT SWITCHES AND MANUAL MOTOR STARTERS. ALL MOTOR STARTER HEATER ELEMENTS AND OVERCURRENT PROTECTION SHALL BE CHECKED FOR PROPER APPLICATION TO THE DEVICE BEING SERVED. DISCONNECTS AND SWITCHES SHALL BE SQUARE-D COMPANY OR EQUAL.

1.08 WIRING DEVICES
 A. WIRING DEVICES SHALL BE INSTALLED AS INDICATED ON THE PLANS AND WHERE NECESSARY TO CONNECT EQUIPMENT. A STANDARD SIZE NYLON WALL PLATES SHALL BE INSTALLED FOR EACH DEVICE. THE COLOR OF THE WALL PLATE AND WIRING DEVICE SHALL BE SELECTED BY THE OWNER'S REPRESENTATIVE. ALL WIRING DEVICES SHALL BE MOUNTED FLUSH IN WALL UNLESS INDICATED OTHERWISE.
 B. TOGGLE SWITCHES SHALL BE SPECIFICATION GRADE RATED 120-277 VOLTS, 20-AMPS, BACK- AND SIDE-WIRED. PROVIDE SINGLE POLE, 3-WAY, OR 4-WAY AS REQUIRED. HUBBELL #CS1221 SERIES OR EQUAL.
 C. RECEPTACLES SHALL BE SPECIFICATION GRADE RATED 20-AMPS AT 120-VOLTS, BACK- AND SIDE-WIRED. STANDARD RECEPTACLES SHALL BE HUBBELL #HBL5352 SERIES OR EQUAL. GROUND-FAULT PROTECTED RECEPTACLES SHALL BE PROVIDED WITH AN LED VISUAL INDICATOR, HUBBELL #GF20L SERIES OR EQUAL.
 D. RECEPTACLES INSTALLED OUTDOORS SHALL BE SPECIFICATION GRADE, GFCL, 120-VOLT, 20-AMP WEATHER RESISTANT (WR) WITH WHILE-IN-USE COVER. HUBBELL #GFTR20 SERIES WITH RED DOT #CKMUV COVER, OR AS APPROVED.

1.09 EMERGENCY POWER
 A. EXIT LIGHTING AND CERTAIN OTHER LUMINAIRES SHALL BE EQUIPPED WITH INDIVIDUALLY MOUNTED BATTERY PACKS WITH AUTOMATIC CHARGING AND SWITCHING OPERATIONS IN THE EVENT OF LOSS OF NORMAL BUILDING POWER. THE EMERGENCY POWER SHALL BE WIRING TO AN UNSWITCHED "HOT" CONDUCTOR TO ALLOW FOR PROPER OPERATION.

1.10 MATERIALS
 A. BASIC MATERIALS AND DEVICES REQUIRED IN THE WIRING SYSTEMS SHALL BE UL APPROVED STANDARDS. IN THE EVENT THAT UL STANDARD IS REVISED, SUPPLEMENTED, OR MODIFIED, ETC., THE LATEST REQUIREMENTS SHALL THEN GOVERN.
 B. AT THE REQUEST OF THE OWNER OR HIS DESIGNATED REPRESENTATIVE, THE CONTRACTOR SHALL SUBMIT A LIST OF MATERIALS PROPOSED TO BE USED IN THE CONSTRUCTION OR PROVIDE SAMPLES, ETC., FULLY ESTABLISHING THE TYPE, GRADE, AND QUALITY OF EACH DEVICE OR ITEM OF MATERIAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ONLY SUCH DEVICES AND MATERIALS AS OBVIOUSLY MEET GOVERNING REQUIREMENTS.
 C. CABINETS SHALL BE CONSTRUCTED OF SHEET STEEL, OF CODE GAUGE, AND FOR EITHER SURFACE OR FLUSH MOUNTING AS SHOWN ON DRAWINGS. SURFACES SHALL BE BONDERIZED TO RESIST CORROSION OR RUSTING. CABINETS FOR INTERIOR INSTALLATION IN FINISHED SPACES SHALL HAVE DOOR AND TRIMS PAINTED TO MATCH SURROUNDINGS.
 D. CABINETS MOUNTED OUTDOORS SHALL BE OF WEATHERPROOF CONSTRUCTION WITH A FINISH TO ADEQUATELY PROTECT THE METAL AGAINST ACTION OF THE ELEMENTS. A MEANS OF LOCKING COVERS OR DOORS OVER THE CIRCUIT PROTECTIVE SECTIONS SHALL BE PROVIDED.

1.11 WORK QUALITY
 A. ALL ELECTRICAL WORK SHALL BE SPECIFIED TO BE PERFORMED IN A WORKMANLIKE AND PROFESSIONAL MANNER BY WORKMEN SKILLED IN THE TRADE REQUIRED. THE WORK SHALL RESULT IN A FINISHED AND OPERATING SYSTEM.

1.12 GUARANTEE
 A. THE ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL WORK TO BE FREE OF GROUNDS AND SHORT CIRCUITS AND SHALL REPAIR OR REPLACE ALL DEFECTIVE WORK WITHIN A PERIOD OF ONE YEAR AFTER THE DATE OF SUBSTANTIAL COMPLETION.

1.13 CODES, PERMITS, FEES
 A. THE ELECTRICAL CONTRACTOR SHALL PAY FOR AND SECURE ALL NECESSARY PERMITS. THE CONTRACTOR IS RESPONSIBLE FOR ALL CHARGES, FEES OR CONTRIBUTIONS TO CONSTRUCTION REQUIRED BY THE ELECTRICAL UTILITY.

COMcheck Software Version 4.0.7.1
Exterior Lighting Compliance Certificate

Project Information
 Energy Code: 2012 IECC
 Project Title: Peay Park Splash Pad Restroom / Equipment Bldg
 Project Type: New Construction
 Exterior Lighting Zone: 2 (Residential mixed use area)

Construction Site: Goodlettsville, TN
 Owner/Agent:
 Designer/Contractor: Keith Patterson, LC, MIES
 Harpeth Park Engineering
 256 Seaboard Lane, Suite G101
 Franklin, TN 37067
 keith@harpethpark.engineering

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Special feature area	22097 ft2	0.14	Yes	3094
				Total Tradable Watts (a) = 3094
				Total Allowed Watts = 3094
				Total Allowed Supplemental Watts (b) = 630

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
 (b) A supplemental allowance equal to 600 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Special feature area (22097 ft2): Tradable Wattage				
LED 1: SA: post top mounted area luminaire: Other:	1	6	86	516
				Total Tradable Proposed Watts = 516

Exterior Lighting PASSES: Design 86% better than code

Exterior Lighting Compliance Statement
 Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2012 IECC requirements in COMcheck Version 4.0.7.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

KEITH PATTERSON, LC, MIES
 Name - Title Signature Date JANUARY 30, 2018

Project Title: Peay Park Splash Pad Restroom / Equipment Bldg Report date: 01/30/18
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COMcheck Software Version 4.0.7.1
Interior Lighting Compliance Certificate

Project Information
 Energy Code: 2012 IECC
 Project Title: Peay Park Splash Pad Restroom / Equipment Bldg
 Project Type: New Construction

Construction Site: Goodlettsville, TN
 Owner/Agent:
 Designer/Contractor: Keith Patterson, LC, MIES
 Harpeth Park Engineering
 256 Seaboard Lane, Suite G101
 Franklin, TN 37067
 keith@harpethpark.engineering

Additional Efficiency Package
 Unspecified

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)	
1-public restrooms and water feature equip room (Office)	691	0.90	622	
				Total Allowed Watts = 622

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-public restrooms and water feature equip room (Office)				
LED 1: A2: 2-foot linear vandal proof: Other:	1	2	20	40
LED 2: A3: 3-foot linear vandal proof: Other:	1	3	40	120
LED 3: A4: 4-foot linear vandal proof: Other:	1	2	50	100
LED 4: AE: 4-foot vandal proof w / battery: Other:	1	3	50	150
				Total Proposed Watts = 410

Interior Lighting PASSES: Design 34% better than code

Interior Lighting Compliance Statement
 Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2012 IECC requirements in COMcheck Version 4.0.7.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

KEITH PATTERSON, LC, MIES
 Name - Title Signature Date JANUARY 29, 2018

Project Title: Peay Park Splash Pad Restroom / Equipment Bldg Report date: 01/29/18
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