Renovations to Interior Core Area
Hillsboro Treatment Center
Hillsboro, Missouri

OWNER: STATE OF MISSOURI
MIKE KEHOE
GOVERNOR

DEPARTMENT OF
SOCIAL SERVICES
Division of Youth Services

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

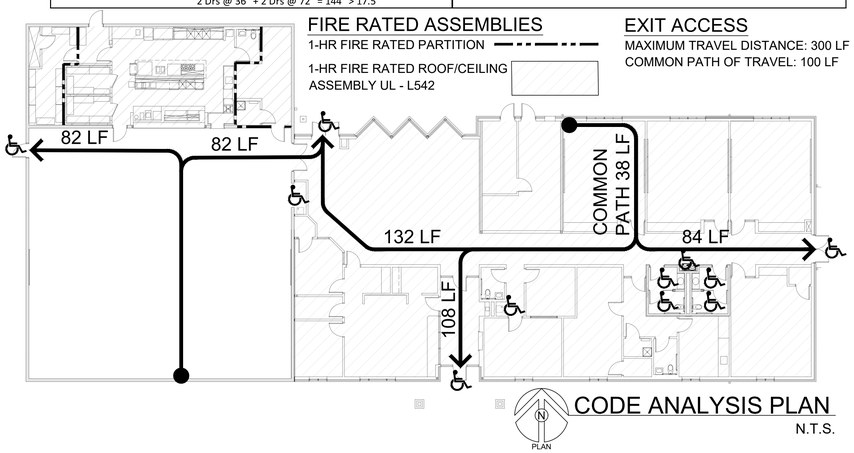
EDM Incorporated
Engineers Architects Planners
500 N. Broadway, Suite 1200, St. Louis, MO 63102
(314) 231-5485 FAX (314) 231-8167

DESIGNER: EDM Incorporated
500 North Broadway, Suite 1200
St. Louis, MO 63102

PROJECT NUMBER: H2503-01

SITE NUMBER: 7710
FACILITY NUMBER: 8877710003

CODE ANALYSIS					
Applicable Codes (FMDC)	Construction Type				
International Building Code 2018	Construction	Type II A			
International Existing Building Code 2018	Allowed Area/Height	AREA	/FL	HEIGHT	
International Fire Code 2018					
International Mechanical Code 2018	Allowable Area Factor (A_t)				(Tables 504.3,
International Energy Conservation Code 2018	S1 =	150,000 s.f.	6 st	85 ft	504.4, 506.2)
International Plumbing Code 2018	NS =	37,500 s.f.			
National Electric Code 2023	Bldg. Perimeter	538 L.F.			
Jefferson County Electric Code 2017	Accessible Perime	538 L.F.			
NFPA 72 2013 National Fire Alarm & Signaling Code		100%			
NFPA 101 2012 Life Safety Code	Accessible Perimeter				
ANSI A117.1 - 2017 Standard for Accessible and Usable Buildings and Facilities	In excess of 25%	75%			
2010 ADA Standards for Accessible Design	Width of Public Way				
	over 20'	30 ft+			
Occupancy T 1004.1.2	Frontage Area Increase		75%		
Business B	$A_a = A_t + (NS \times I_f)$				(506.2.1)
Existing Gross Area = 11,577 gsf@ 1/100 sf 116 occ	**Total Allowed Area per Floor (A_a)**	**178,125 s.f**	**6 st**	**85 ft**	(506.2)
Egress Capacity = 116 occ x .15"/occ = 17.5"	**Actual Area/Height**	**11,577 s.f.**	**1 st**	**28 ft**	
2 Drs @ 36" + 2 Drs @ 72" = 144" > 17.5"					



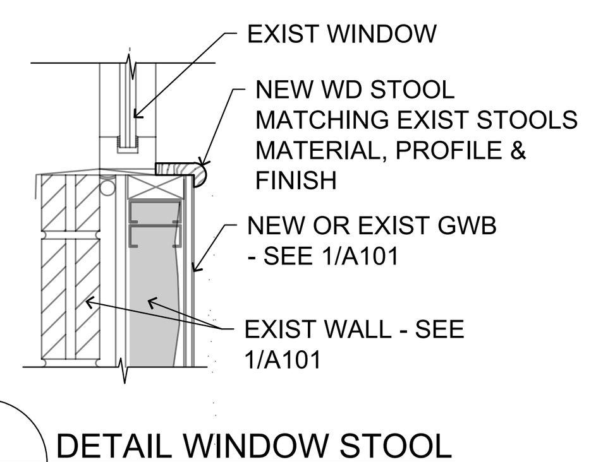
CODE ANALYSIS PLAN
N.T.S.

DRAWING LIST

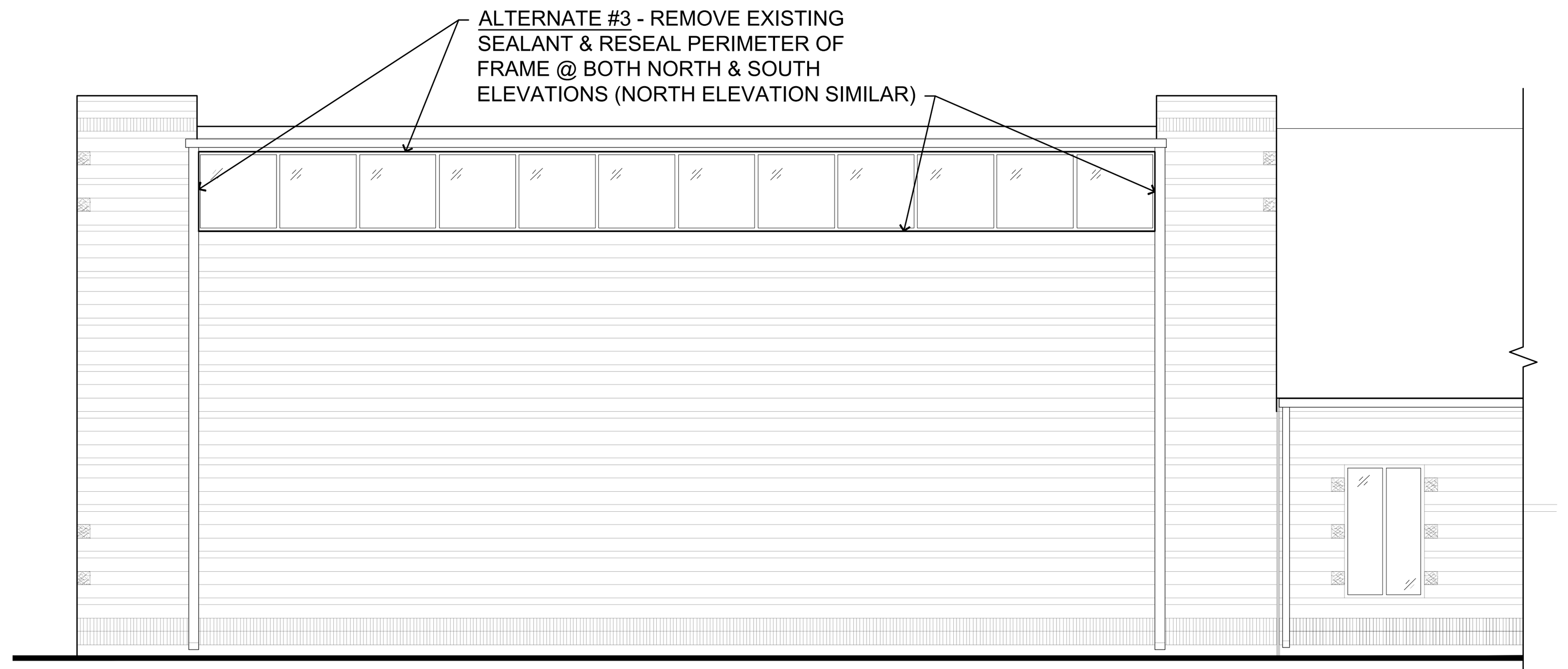
	TITLE	SHEET #	DATE	CAD #
1.	Cover Sheet	Sheet G-001	10/31/2025	G-001
2.	Floor Plan / Partition Types Exterior Elevation	Sheet A-101	10/31/2025	A-101
3.	Finish Schedule Flooring Plan Demolition Plan	Sheet A-102	10/31/2025	A-102
4.	Interior Elevations & Details	Sheet A-501	10/31/2025	A-501
5.	Reflect Clg Plan Building Sections	Sheet A-701	10/31/2025	A-701
6.	Fire Protection Floor Plan	Sheet F-101	10/31/2025	F-101
7.	Plumbing Floor Plan	Sheet P-101	10/31/2025	P-101
8.	Plumbing Foundation Floor Plan	Sheet P-102	10/31/2025	P-102
9.	Plumbing Risers	Sheet P-103	10/31/2025	P-103
10.	Mechanical Floor Plan	Sheet M-101	10/31/2025	M-101
11.	Mechanical Schedules	Sheet M-601	10/31/2025	M-601
12.	Electrical Legend	Sheet E-001	10/31/2025	E-001
13.	Electrical General Notes	Sheet E-002	10/31/2025	E-002
14.	Electrical Lighting Floor Plan	Sheet E-101	10/31/2025	E-101
15.	Electrical Power & Systems Floor Plan	Sheet E-111	10/31/2025	E-111
16.	Electrical Schedules	Sheet E-601	10/31/2025	E-601
17.	Electrical Schedules	Sheet E-602	10/31/2025	E-602
18.	Electrical Diagrams	Sheet E-701	10/31/2025	E-701
19.	Electrical Details	Sheet E-702	10/31/2025	E-702
20.	Electrical Image Details	Sheet E-703	10/31/2025	E-703

LOCATION PLAN
HILLSBORO, MO

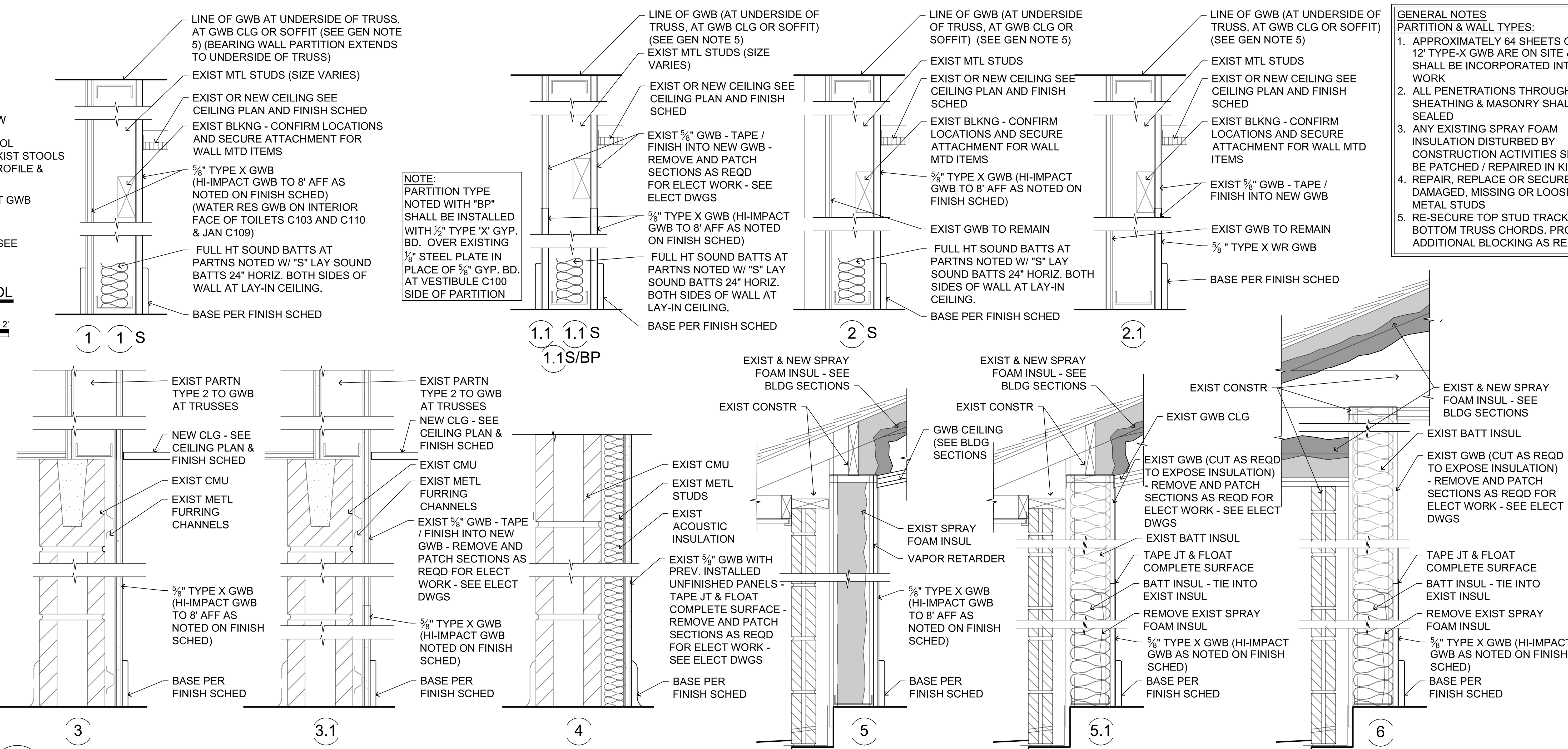
SHEET NUMBER:
G-001
1 OF 20 SHEETS
OCTOBER 31, 2025



3 DETAIL WINDOW STOOL
A-101 1" = 1'-0"



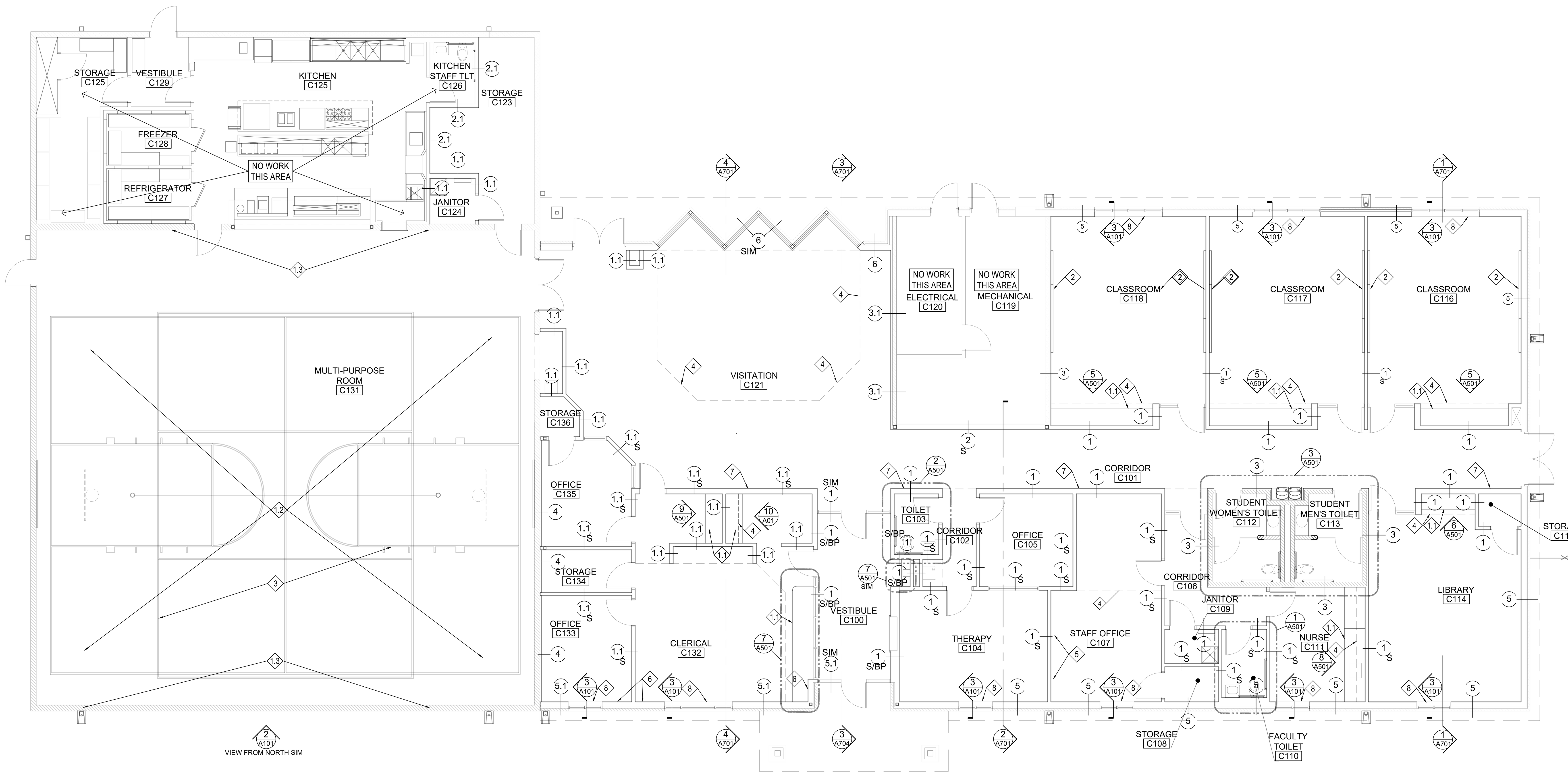
2 PARTIAL SOUTH ELEVATION
A101 1/8"=1'-0"



1 PARTITION AND WALL TYPES
A-101 1" = 1'-0"

GENERAL NOTES
PARTITION & WALL TYPES:

1. APPROXIMATELY 64 SHEETS OF 5/8" X 12' TYPE-X GWB ARE ON SITE & SHALL BE INCORPORATED INTO THE WORK
2. ALL PENETRATIONS THROUGH GWB, SHEATHING & MASONRY SHALL BE SEALED
3. ANY EXISTING SPRAY FOAM INSULATION DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE PATCHED / REPAIRED IN KIND
4. REPAIR, REPLACE OR SECURE ANY DAMAGED, MISSING OR LOOSE METAL STUDS
5. RE-SECURE TOP STUD TRACK TO BOTTOM TRUSS CHORDS. PROVIDE ADDITIONAL BLOCKING AS REQD.



CORE BUILDING FLOOR PLAN
0 4' 8' 16' Scale: 1/8" = 1'-0"

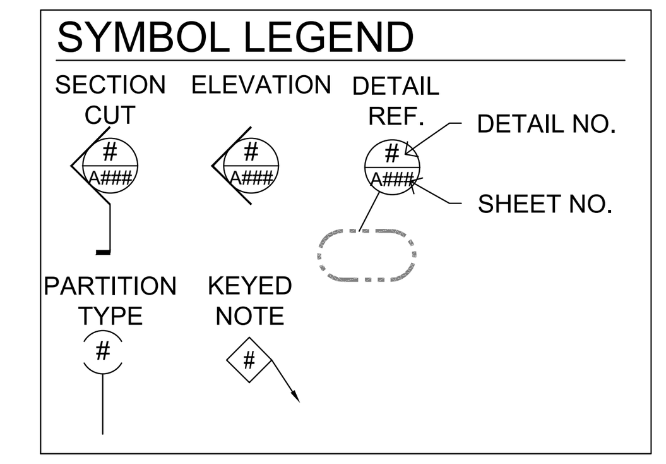
GENERAL NOTES

1. PROVIDE CLOSED CELL SPRAY FOAM INSULATION AT ANY EXISTING INSULATION OR VAPOR RETARDER GAPS AT EXISTING WALLS
2. ANY EXISTING INSULATION IN THE EXTERIOR WALLS OR ROOF DISTURBED OR REMOVED BY CONSTRUCTION OPERATIONS SHALL BE REPAIRED OR REPLACED IN KIND
3. SEE SHEET A-102 FOR ITEMS TO BE DEMOLISHED & REMOVED
4. SEE MECHANICAL DRAWINGS FOR NEW VENT OPENINGS IN BULK HEADS
5. REPAIR AND/OR REPLACE & SECURE ANY DAMAGED, MISSING OR UNSECURE METAL STUDS

◇ KEYED NOTES – SHEET A-101 FLOOR PLAN

1. ALTERNATES – ALL ADD ALTERNATES ARE SHOWN ON THE FLOOR PLAN – BASE BID SHALL NOT INCLUDE ALTERNATES
   1.1. ALTERNATE #1 – INSTALL NEW BASE AND WALL CABINETS, WORK SURFACES & SHELVING WITH PLASTIC LAM COUNTERTOPS
   1.2. ALTERNATE #2 – INSTALL SYNTHETIC GYM FLOORING WITH GAME STRIPES IN LIEU OF FLOOR PAINT & STRIPING
   1.3. ALTERNATE #3 – RESEAL FRAMES AT CLERESTORY WINDOWS – SEE ELEVATION 2/A-101
2. NEW MARKER AND TACK BOARD – SEE BLDG SECT 1/A701 (TYP.)
3. PREP & PAINT FLOOR W/ GAME STRIPING PER NFHS BASKETBALL & VOLLEYBALL STANDARDS
4. BULKHEAD ABOVE
5. REPLACE MISSING STUDS & REPAIR TRACKS THIS AREA
6. REMOVE EXISTING UNFINISHED GWB
7. BEARING WALL PARTITION
8. NEW WD WINDOW STOOL – SEE DETAIL 3/A101

SYMBOL LEGEND



STATE OF MISSOURI
MIKE KEHOE,
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EXPIRES 12/31/2027

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DEPARTMENT OF SOCIAL SERVICES
Division of Youth Services

RENOVATIONS TO INTERIOR CORE BUILDING

HILLSBORO TREATMENT CENTER
HILLSBORO, MISSOURI

PROJECT # H2503-01
SITE # 7710
FACILITY # 88777-10003

REVISION: ____
DATE: ____
REVISION: ____
DATE: ____
REVISION: ____
DATE: ____
ISSUE DATE: 10/31/2025

CAD DWG FILE: H2503-01_7710_88777-10003_A-101
DRAWN BY: GSS
CHECKED BY: WAB
DESIGNED BY: GSS/WAB

SHEET TITLE:

FLOOR PLAN
PARTITION TYPES
EXTERIOR ELEV.

SHEET NUMBER:

A-101

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS				DOOR	DR FRAME	CEILING		REMARKS
				NORTH	SOUTH	EAST	WEST					
		FINISH	FINISH	FINISH	FINISH	FINISH	FINISH	FINISH	FINISH	HEIGHT	FINISH	
CORE BUILDING												
C100	VESTIBULE	EXIST CT-1	WB/ST	PT-3	PT-1	PT-3	PT-3	ST	PT-2A	9'-0"	ACT-1	8, 13
C101	CORRIDOR	VCT-1	WB/ST	PT-1,3	PT-1,3	PT-3	PT-3	ST	PT-2A	10'-2"	ASC	1, 9
C102	CORRIDOR	VCT-1	WB/ST	N/A	PT-3	PT-3	PT-3	N/A	N/A	8'-0"	PT-7A	2 (PT-2B)
C103	TOILET	EXIST CT-2	CT-2	PT-3	PT-3	PT-3	PT-3	ST	PT-2A	8'-0"	PT-7A	5, 11, 13
C104	THERAPY	CPT-1	WB/ST	PT-3	PT-1	PT-3	PT-3	ST	PT-2A	VARIES	ASC	9
C105	OFFICE	CPT-1	WB/ST	PT-3	PT-1	PT-3	PT-3	ST	PT-2A	8'-6"	ACT-1	
C106	CORRIDOR	CPT-1	WB/ST	PT-3	PT-1	PT-3	PT-3	N/A	N/A	8'-0"	PT-7A	
C107	STAFF OFFICE	CPT-1	WB/ST	PT-3	PT-1	PT-3	PT-3	ST	PT-2A	VARIES / 8'-0"	ASC	2 (PT-2B),4,13
C108	STORAGE	CPT-1	WB/ST	PT-7A	PT-7A	PT-7A	PT-7A	ST	PT-2A	VARIES	PT-7A	
C109	JANITOR	SCONC	VB-1	PT-7A	PT-7A	PT-7A	PT-7A	ST	PT-2A	VARIES	PT-7A	5
C110	FACULTY TOILET	EXIST CT-2	CT-2	PT-3	PT-3	PT-3	PT-3	ST	PT-2A	VARIES	PT-7A	5, 11
C111	NURSE	VCT-1	WB/ST	PT-3	PT-1	PT-3	PT-3	ST	PT-2A	VARIES	PT-7A	2 (PT-2B)
C112	WOMEN'S STUDENT TOILET	SF-1	SF-1	SF-3	SF-3	SF-3	SF-3	ST	PT-2A	8'-6"	PT-7A	3
C113	MEN'S STUDENT TOILET	SF-1	SF-1	SF-3	SF-3	SF-3	SF-3	ST	PT-2A	8'-6"	PT-7A	3
C114	LIBRARY	CPT-1,2	WB/ST	PT-3	PT-1	PT-3	PT-3	ST	PT-2A	VARIES	PT-7A	2 (PT-2B),4,9
C115	STORAGE	CPT-1	WB/ST	PT-3	PT-3	PT-3	PT-3	ST	PT-2A	VARIES	PT-7A	
C116	CLASSROOM	CPT-1,2	WB/ST	PT-1	PT-3	PT-3	PT-3	ST	PT-2A	VARIES	PT-7A	2 (PT-2B),4,9
C117	CLASSROOM	CPT-1,2	WB/ST	PT-1	PT-3	PT-3	PT-3	ST	PT-2A	VARIES	PT-7A	2 (PT-2B),4,9
C118	CLASSROOM	CPT-1,2	WB/ST	PT-1	PT-3	PT-3	PT-3	ST	PT-2A	VARIES	PT-7A	2 (PT-2B),4,9
C119	MECHANICAL											NO WORK
C120	ELECTRICAL											NO WORK
C121	VISITATION	VCT-1	WB/ST	PT-1	N/A	PT-3	PT-3	N/A	N/A	VARIES	ASC	2 (PT-2B) 10
C122	NOT USED											
C123	STORAGE	SCONC	VB-1	PT-7A	PT-7A	PT-7A	PT-7A	PT-2B	PT-2A	VARIES	PT-7A	13
C124	JANITOR	SCONC	VB-1	PT-3	PT-3	PT-3	PT-3	PT-2B	PT-2A	VARIES	PT-7A	
C125	KITCHEN											NO WORK
C126	KITCHEN STAFF TOILET											NO WORK
C127	WALK-IN REFRIGERATOR											NO WORK
C128	WALK-IN FREEZER											NO WORK
C129	VESTIBULE											NO WORK
C130	STORAGE											NO WORK
C131	MULTI-PURPOSE ROOM	PCONC	VB-1	NO WORK	NO WORK	NO WORK	NO WORK	ST, PT-2B	PT-2A	EXP.	NO WORK	7, 8, 13
C132	CLERICAL	CPT-1, 2	WB/ST	PT-3	PT-1	PT-1	PT-1	ST	PT-2A	VARIES	PT-7A	2 (PT-2B)
C133	OFFICE	CPT-1	WB/ST	PT-3	PT-3	PT-3	PT-1	ST	PT-2A	9'-2"	ACT-1	
C134	STORAGE	CPT-1	WB/ST	PT-7A	PT-7A	PT-7A	PT-7A	ST	PT-2A	VARIES	PT-7A	
C135	OFFICE	CPT-1	WB/ST	PT-3	PT-3	PT-3	PT-1	ST	PT-2A	9'-2"	ACT-1	
C136	STORAGE	CPT-1	WB/ST	PT-7A	PT-7A	PT-7A	PT-7A	ST	PT-2A	VARIES	PT-7A	

ROOM FINISH SCHEDULE REMARKS

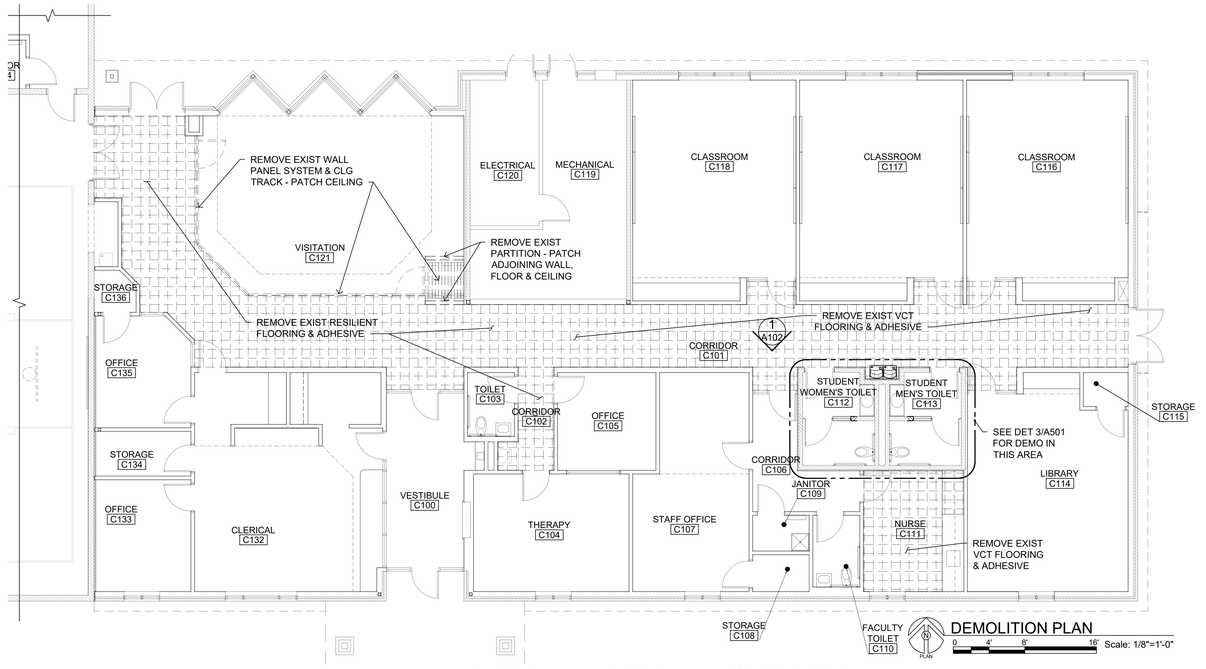
1. SEE INTERIOR ELEVATIONS 1/A102 FOR EXTENT OF PAINT COLORS.
2. PT-2B OR PT-5 AT VERTICAL DROP/ SOFFIT.
3. EXISTING EPOXY FLOOR & BASE: CLEAN, REPAIR & RECOAT TO MATCH EXIST
4. SEE RCP FOR PT. COLOR OF SOFFITS
5. WATER RESISTANT GYP BOARD
6. PAINT DOOR FRAME PT-8 AT EXTERIOR SIDE.
7. PAINT DOOR PT-9 AT EXTERIOR SIDE.
8. PAINT MAIN ENTRY DOOR PT-10 AT EXTERIOR SIDE.
9. IMPACT RESISTANT GYP BD TO 8'-0" ABOVE (EXCEPT BEHIND CASEWORK)
10. PARTIAL HEIGHT IMPACT RESISTANT GYP BD - SEE PARTITION TYPES 1.1, 3.1 & 6/A101
11. EXISTING CT FLOOR TO REMAIN. CLEAN & REGROUT. PROVIDE MATCHING 4" CT BASE.
12. DOOR FRAME TO BE PAINTED PT-11 ON MULTI-PURPOSE ROOM SIDE.
13. EXISTING CT FLOOR TO REMAIN. CLEAN & REGROUT

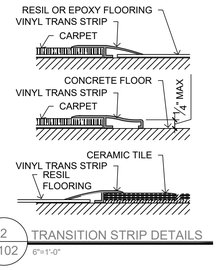
GENERAL NOTES:

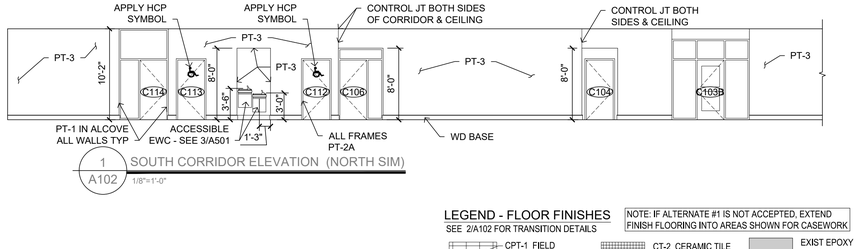
1. PAINT COLORS NOTED ARE FROM ORIGINAL CTHE ONSTRUCTION AND LISTED AS A GUIDE. WHERE EXIST COLORS REMAIN, REPAINTING SHALL MATCH EXISTING COLORS.
2. FINISH MATERIALS, STYLES & COLORS NOTED ARE FROM THE ORIGINAL CONSTRUCTION AND LISTED AS A GUIDE. NEW FINISHES SHALL BE COMPATABLE WITH & MATCH THOSE ORIGINALLY SPECIFIED AS CLOSLEY AS POSSIBLE AND AS APPROVED BY THE OWNER'S REP.
3. EXISTING HM FRAMES: REPAINT TO MATCH EXIST.
4. REPAIR ANY DAMAGED FINISH ON PREFINISHED DOORS - REFINISH AS REQD.
5. WOOD BASE: SITE APPLIED CLEAR FINISH TO MATCH MANUFACTURER APPLIED CLEAR FINISH ON DOORS.
6. SEE THE REFLECTED CEILING PLAN ON A-701 FOR CEILINGS RECEIVING ACOUSTICAL SPRAY.

KEY TO FINISHES

	ABBREVIATION	FINISH DEFINITION	MANUFACTURER, PRODUCT NAME & COLOR MANUFACTURERS/PRODUCTS LISTED ARE "BASIS OF DESIGN"
FLOORING	CPT-1	FIELD MODULAR CARPET (CORE BLDG)	SHAW NETWORX 90420 "Summer Breeze"
	CPT-2	ACCENT MODULAR CARPET (CORE BLDG)	SHAW NETWORX 10940 "Purple Pansy"
	EXIST CT-1	EXISTING CERAMIC TILE (ENTRY - CORE BLDG)	AMERICAN OLEAN W66 "Evening Shadows" (8 x 8 UNPOLISHED)
	EXIST CT-2	EXISTING CERAMIC TILE (STAFF TOILETS - CORE BLDG)	AMERICAN OLEAN C19 "Nile Blue" (2 x 2 UNGLAZED)
	SF-1	RECOAT EXISTING SPECIAL FLOORING (CORE BLDG)	EPOXY COMPATABLE WITH EXIST. TNEMEC AY22 "Baltic Sea"
	VCT-1	VINYL COMPOSITION TILE	ARMSTRONG LUXURY VINYL PLANK FLOORING "Woven Wicker"
	VB-1	4" VINYL BASE (CORE BLDG)	JOHNSONITE CB-58 "Windsor Blue"
	VB-2	4" VINYL BASE (MULTI-PURPOSE ROOM)	JOHNSONITE CB-29 "Moon Rock"
	WB	6" X 5/8" WOOD BASE W/ EASED EDGE	SEE SPECS
	SCONC	EXIST SEALED CONCRETE	EXISTING - NO WORK
	PCONC	PAINTED CONCRETE	EPOXY COATING W/ GAME LINES PER NFHS STDS
CEILING	ACT-1	24" x 24" ACCOUSTICAL CEILING TILE	ARMSTRONG #303 BEVELED TEGULAR TUNDRA
	ASC	ACCOUSTICAL SPRAY CEILING	SEE SPECS
PAINTS & STAINS	PT-1	ACCENT PAINT (CORE BLDG)	SHERWIN WILLIAMS SW 1198 "Blue Jade"
	PT-2A	DOOR FRAME/MISC. PAINT (CORE BLDG)	SHERWIN WILLIAMS SW 1220 "Polar Blue"
	PT-2B	VERTICAL DROP PAINT (CORE BLDG)	SHERWIN WILLIAMS SW 1222 "Oxford Blue"
	PT-3	FIELD PAINT (CORE BLDG)	SHERWIN WILLIAMS SW 1200 "Aqua Pura"
	PT-7A	CEILING PAINT (CORE BLDG)	SHERWIN WILLIAMS SW 1904 "Designer White"
	PT-8	DOOR FRAME PAINT AT EXTERIOR	SHERWIN WILLIAMS SW 2070 "Spanish Moss"
	PT-9	DOOR PAINT AT EXTERIOR	SHERWIN WILLIAMS SW 2169 "Sombrero"
	PT-10	DOOR PAINT AT EXTERIOR ENTRY	SHERWIN WILLIAMS SW 2200 "Travertine"
	PT-11	DOOR FRAME PAINT AT MULTI-PURPOSE RM	SHERWIN WILLIAMS SW 1016 "Silverscreen"
	SF-3	SPECIAL FINISH (CORE BLDG.)	SEE SPECS
	CF	CLEAR FINISH	SHERWIN WILLIAMS STAIN CLEAR S848T
	ST	STAINED FINISH	STAIN TO MATCH (VT Industries Wd. Veneer Color Red Oak No. 8)
LAMINATE	PL-1	PLASTIC LAMINATE (COUNTERTOPS - CORE BLDG)	NEVAMAR MR-3-1T "Blue Matrix"
	PL-2	PLASTIC LAMINATE (BASE/SHELVES - CORE BLDG)	NEVAMAR S-6-47T "Sandpiper"



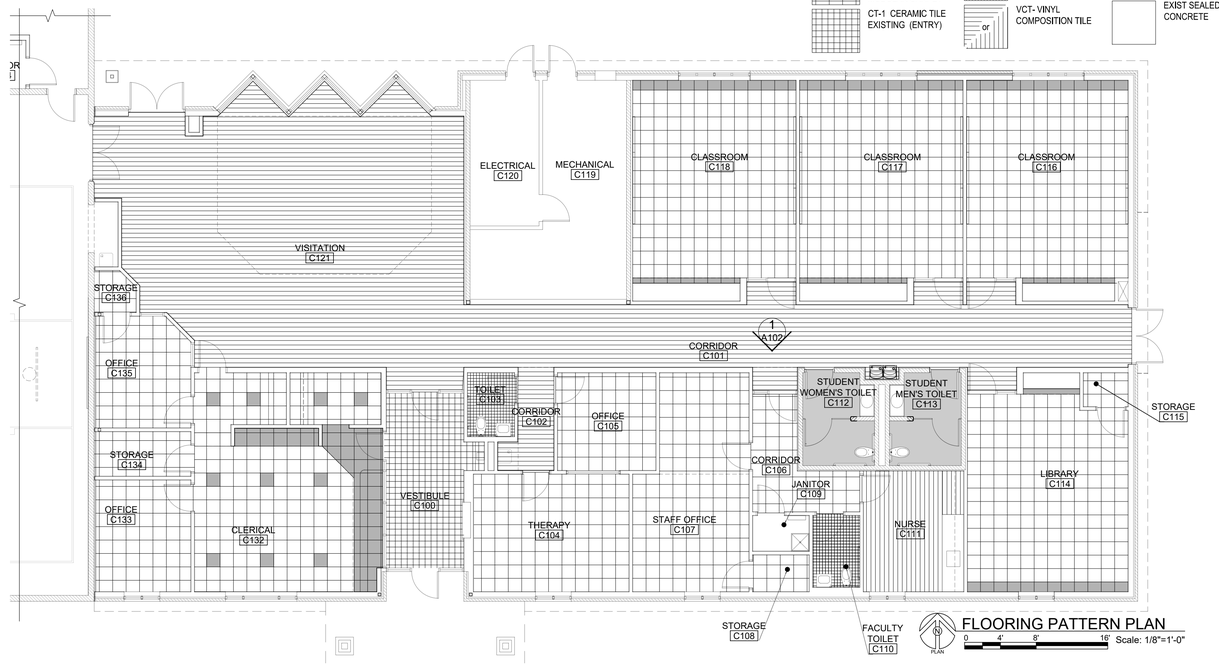




LEGEND - FLOOR FINISHES
SEE 2/A102 FOR TRANSITION DETAILS

NOTE: IF ALTERNATE #1 IS NOT ACCEPTED, EXTEND FINISH FLOORING INTO AREAS SHOWN FOR CASEWORK

- CPT-1 FIELD MODULAR CARPET
- CPT-2 ACCENT MODULAR CARPET
- CT-1 CERAMIC TILE EXISTING (ENTRY)
- CT-2 CERAMIC TILE EXISTING (TOILETS)
- VCT- VINYL COMPOSITION TILE (or)
- EXIST EPOXY FLOORING - REPAIR/RECOAT
- EXIST SEALED CONCRETE



STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

EXPIRES 12/31/2027

G. STEPHEN SCOTT
NUMBER A-6010
STATE OF MISSOURI
REGISTERED ARCHITECT

SIGNED 10/31/2025

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RENOVATIONS TO INTERIOR
CORE BUILDING

HILLSBORO TREATMENT CENTER
HILLSBORO, MISSOURI

PROJECT # H2503-01
SITE # 7710
FACILITY # 88777-10003

REVISION:
DATE:
REVISION:
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REVISION:
DATE:

ISSUE DATE: 10/31/2025

CAD DWG FILE: H2503-01_7710_88777-10003_A-501
DRAWN BY: GSS
CHECKED BY: WAB
DESIGNED BY: GSS / WAB

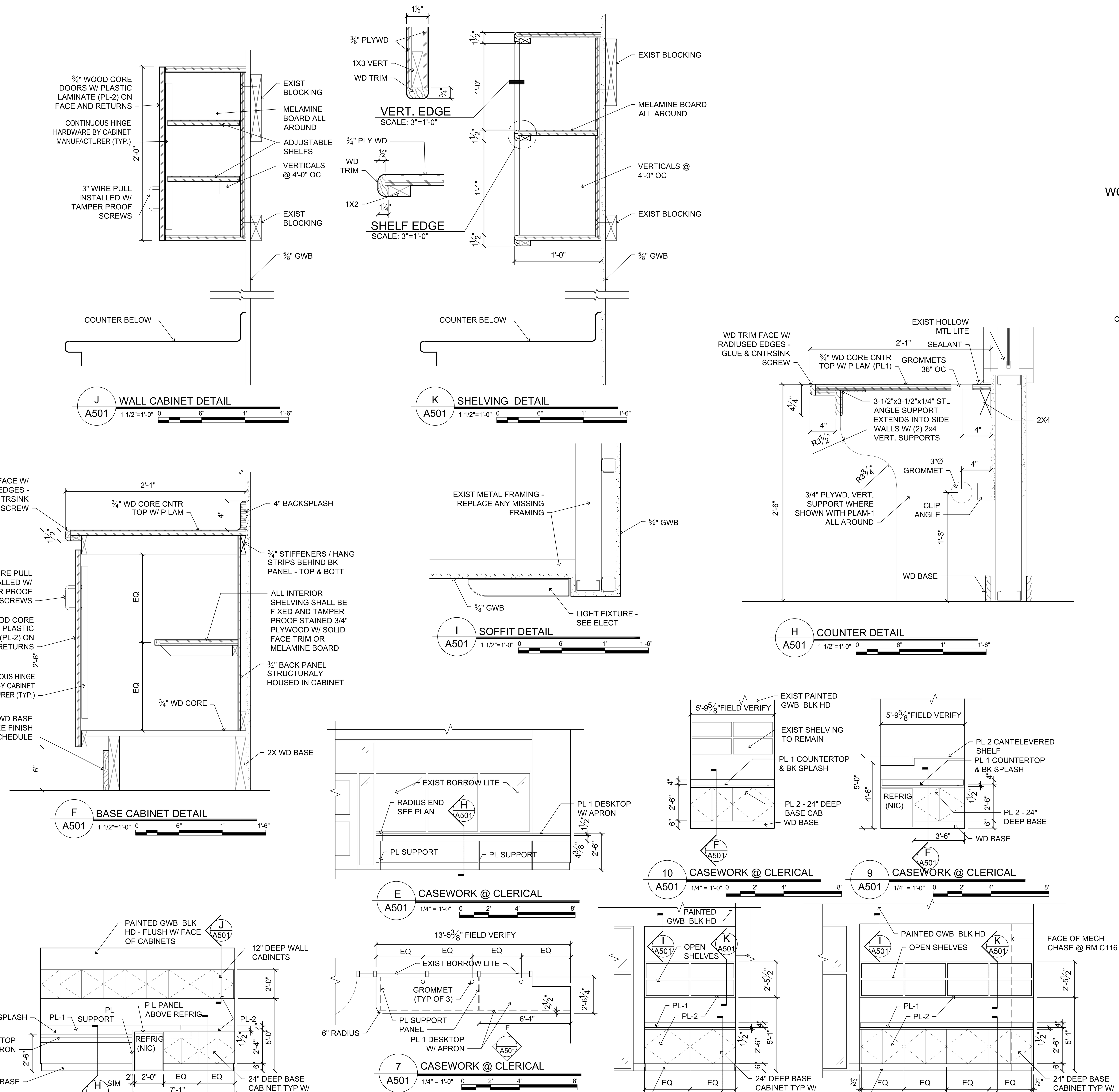
SHEET TITLE:

FINISH SCHEDULE
FLOORING PLAN
DEMOLITION PLAN

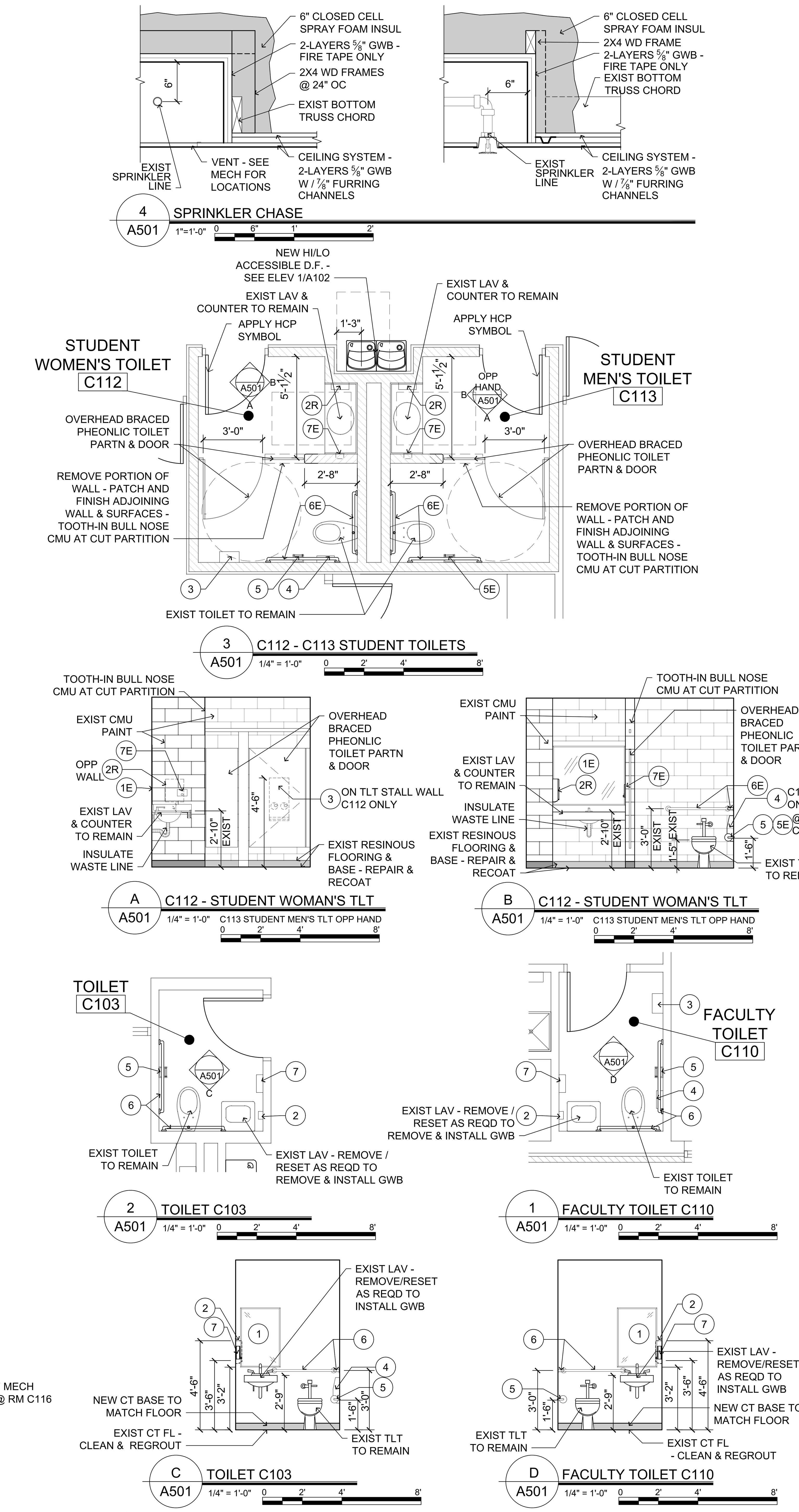
SHEET NUMBER:

A-102

3 OF 20 SHEETS
10/31/2025



NOTE:
1. ALL CASEWORK & COUNTERTOPS ARE PART OF ALTERNATE #1
2. CASEWORK SHALL BE ANCHORED TO EXISTING BLOCKING. THE LOCATIONS & SECURE MOUNTING OF EXIST BLOCKING SHALL BE CONFIRMED. MISSING BLOCKING SHALL BE REINSTALLED



RESTROOM EQUIPMENT

MK	DESCRIPTION	BASIS OF DESIGN
1	MIRROR	BOBRICK B-290 24" X 36"
2	PAPER TOWEL DISPENSER	BOBRICK B-9262
3	SANITARY NAPKIN/TAMPON DISPENSER	BOBRICK B-4706 25
4	SANITARY NAPKIN/TAMPON DISPOSAL	BOBRICK B-270
5	TOILET PAPER HOLDER	BOBRICK B-264
6	GRAB BARS	BOBRICK B-5806 42" & 36"
7	SOAP DISPENSER	BOBRICK B-2012

NOTE: 1- EQUIPMENT MARKED WITH "E" IS EXISTING & IN PLACE
2- EQUIPMENT MARKED WITH "R" IS EXISTING TO BE RELOCATED
3- EQUIPMENT SHALL BE MOUNTED TO EXISTING BLOCKING - VERIFY THAT BLOCKING IS PROPERLY LOCATED AND SECURELY ATTACHED - INSTALL MISSING OR MISLOCATED BLOCKING
4- EQUIPMENT SHALL BE MOUNTED AT HEIGHTS & LOCATIONS PER ADA 2010 REQUIREMENTS

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Engineers Architects Planners
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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF SOCIAL SERVICES
Division of Youth Services

RENOVATIONS TO INTERIOR CORE BUILDING

HILLSBORO TREATMENT CENTER
HILLSBORO, MISSOURI

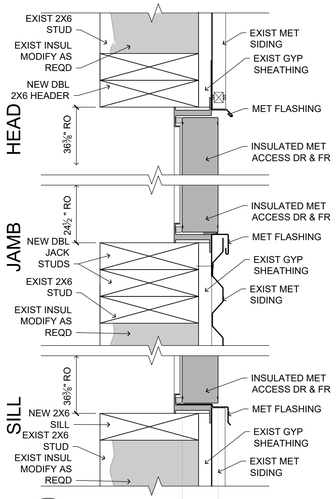
PROJECT # H2503-01
SITE # 7710
FACILITY # 88777-10003

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 10/31/2025

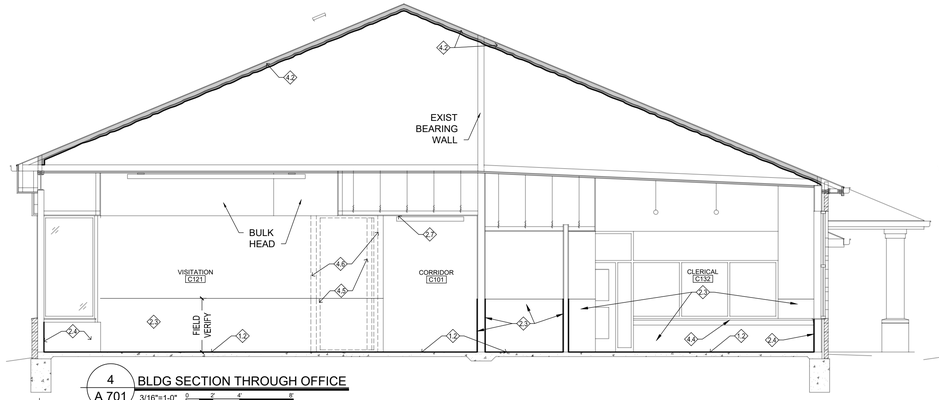
CAD DWG FILE: H2503-01_7710_88777-10003_A-501
DRAWN BY: GSS
CHECKED BY: WAB
DESIGNED BY: GSS/WAB

SHEET TITLE:
INTERIOR ELEVATIONS & DETAILS

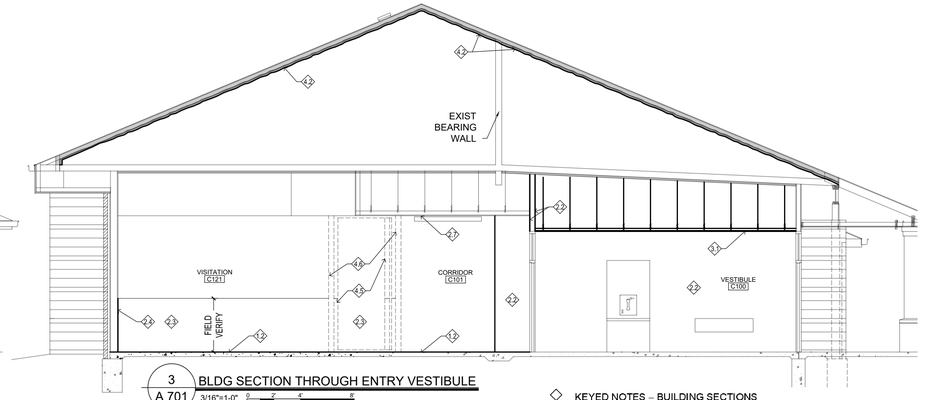
SHEET NUMBER:
A-501



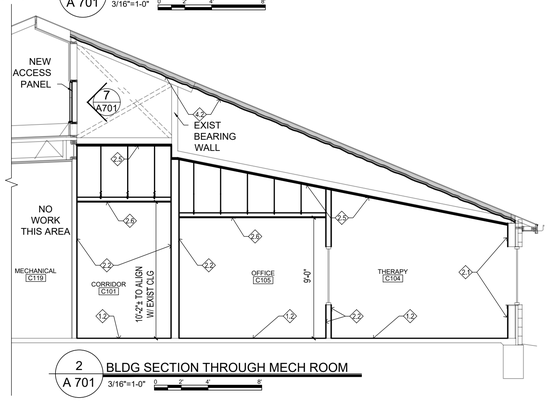
8 A701 EXTERIOR ACCESS PANEL
3" = 1'-0"



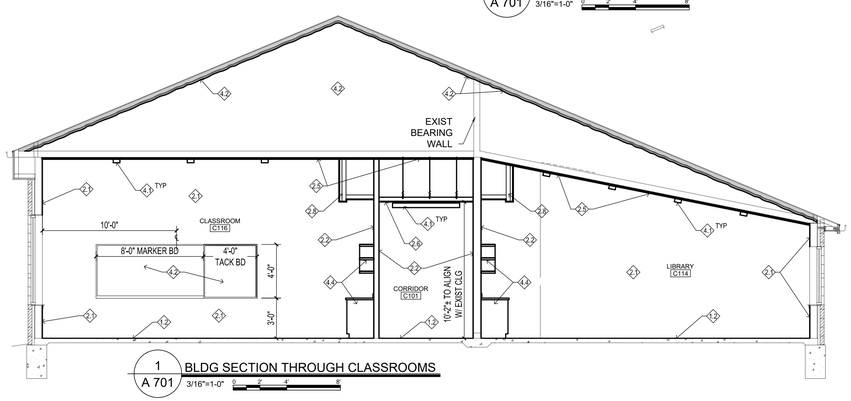
4 A 701 BLDG SECTION THROUGH OFFICE
3/16"=1-0"



3 A 701 BLDG SECTION THROUGH ENTRY VESTIBULE
3/16"=1-0"



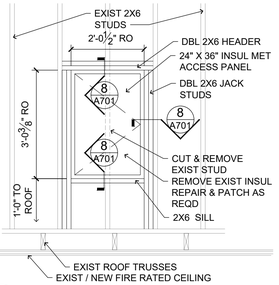
2 A 701 BLDG SECTION THROUGH MECH ROOM
3/16"=1-0"



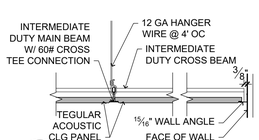
1 A 701 BLDG SECTION THROUGH CLASSROOMS
3/16"=1-0"

◇ KEYED NOTES – BUILDING SECTIONS

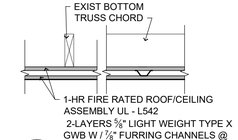
1. FLOOR COVERINGS
   - 1.1. REMOVE EXIST FLOOR COVERING –NEW FLOOR COVERING
   - 1.2. NEW FLOOR COVERING
2. GYPSUM WALL BOARD (SEE FINISH SCHED FOR HI-IMPACT & WATER RESIST GWB)
   - 2.1. FULL HEIGHT GWB OVER VAPOR RETARDER
   - 2.2. FULL HEIGHT GWB
   - 2.3. PARTIAL HEIGHT GWB TAPE INTO EXIST GWB
   - 2.4. REMOVE EXIST SPRAY FOAM INSULATION – EXTEND BATT INSULATION & VAPOR BARRIER TO FLOOR – PARTIAL HEIGHT GWB TAPE INTO EXIST GWB
   - 2.5. NEW FIRE RATED GWB CEILING ON BOTTOM TRUSS CHORD SEE DET 5/A701
   - 2.6. SUSPENDED GWB CLG ON NEW METAL FRAMING TO MATCH EXIST ADJACENT FRAMING AND SUPPORTS
   - 2.7. EXIST SUSPENDED GWB CLG ON EXIST METAL FRAMING
   - 2.8. GWB BULKHEAD & SOFFIT ON EXIST FRAMING. REINSTALL ANY MISSING FRAMING TO MATCH EXISTING
3. ACOUSTICAL CEILINGS
   - 3.1. SUSPENDED ACOUSTICAL PANEL CEILING TO MATCH EXIST – SEE DETAIL 6/A701
4. MISCELLANEOUS
   - 4.1. LIGHT FIXTURES - SEE ELECT DWGS
   - 4.2. EXIST (POST INSTALLED) OPEN CELL SPRAY FOAM INSULATION – ADD 3"± CLOSED CELL SPRAY FOAM INSULATION TO EQUAL 6" MIN TOTAL THICKNESS
   - 4.3. NEW MARKER/TACK BOARD
   - 4.4. NEW CASEWORK (ALTERNATE #1)
   - 4.5. REMOVE EXIST WALL PANEL SYSTEM & TRACK. PATCH CEILING AT REMOVED TRACK
   - 4.6. REMOVE EXIST PARTITIONS. PATCH ADJOINING WALLS, CEILING & FLOOR



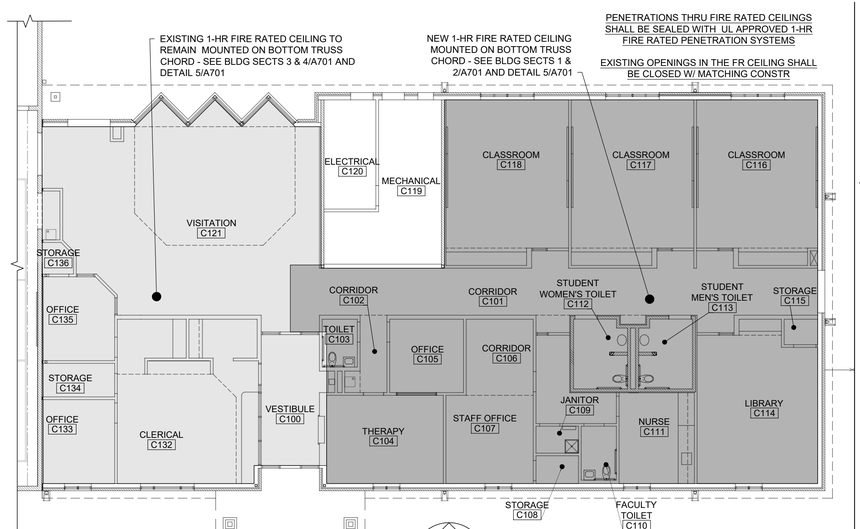
7 A701 ELEV ACCESS PANEL (INTERIOR VIEW)
1/2" = 1'-0"



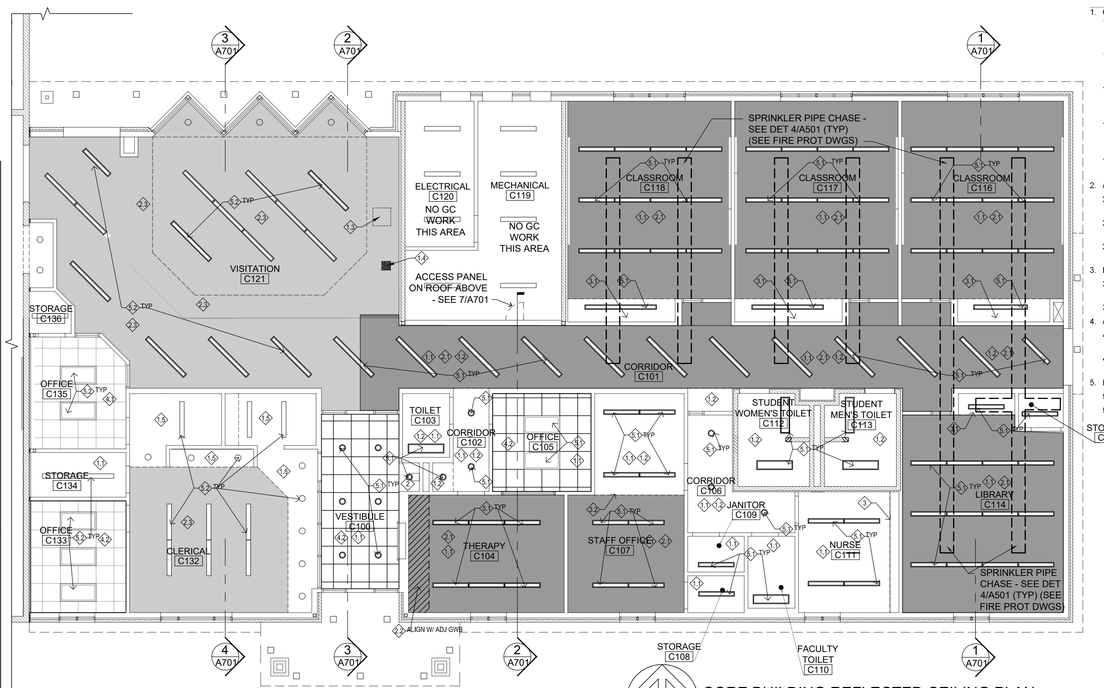
6 A701 ACOUSTICAL CEILING DETAIL
1 1/2"=1'-0"



5 A701 FIRE-RATED CEILING DET
1"=1'-0"



N PLAN
CORE BUILDING 1-HR FIRE RATED CEILING
0 8' 16' 32'
Scale: 3/32" = 1'-0"



N PLAN
CORE BUILDING REFLECTED CEILING PLAN
0 4' 8' 16'
Scale: 1/8" = 1'-0"

◇ KEYED NOTES – SHEET A-701
REFLECTED CEILING PLAN

1. GYPSUM WALL BOAD CEILING
   - 1.1. NEW LIGHT WEIGHT GWB CEILING ON BOTTOM CHORD OF TRUSS – SEE BUILDING SECTIONS, DET 5/A701 & CORE BLDG 1-HR FIRE RATED CEILING PLAN
   - 1.2. NEW SUSPENDED LIGHT WEIGHT GWB CEILING – SEE BUILDING SECTIONS – SEE FINISH SCHED FOR CEILING HEIGHTS
   - 1.3. REMOVE SECTION OF GWB SOFFIT AS REQD TO PROVIDE ACCESS FOR ELECT WORK. PATCH & REFINISH ON COMPLETION. SEE ELECT DWGS.
   - 1.4. EXIST ACCESS OPENING IN 1-HR FR CEILING. REMOVE METAL FRAME & INFILL OPENING W/ 1-HR FR CEILING TO MATCH EXISTING
   - 1.5. EXIST GWB CEILING TO REMAIN – REPAIR ANY DAMAGE
2. ACOUSTICAL SPRAY
   - 2.1. ACOUSTICAL SPRAY ON NEW GWB CEILING - SEE SECTION 1/A-701 – MATCH EXISTING
   - 2.2. ACOUSTICAL SPRAY ON NEW SUSPENDED GWB CEILING - SEE SECTION 1/A-701 – MATCH EXISTING
   - 2.3. EXISTING ACOUSTICAL SPRAY ON EXIST GWB CEILING TO REMAIN - SEE SECTION 3/A-701
3. BULK HEAD
   - 3.1. NEW GWB BULK HEAD & SOFFIT ON EXIST FRAMING – REINSTALL ANY MISSING FRAMING
   - 3.2. NEW BULK HEAD TO SUSPENDED CLG
4. ACOUSTICAL PANEL CEILINGS
   - 4.1. EXISTING SUSPENDED ACOUSTICAL PANEL CEILING – INSTALL NEW ACOUSTICAL PANELS
   - 4.2. NEW SUSPENDED ACOUSTICAL PANEL CEILING TO MATCH EXIST – SEE DETAIL 6/A701
5. LIGHT FIXTURES
   - 5.1. NEW LIGHT FIXTURES SEE ELECT DWGS
   - 5.2. EXISTING LIGHT FIXTURES TO REMAIN

LEGEND - REFLECTED CEILING PLAN

- GWB CEILING - SUSPENDED OR DIRECT APPLIED
- TEXTURED ACOUST SPRAY ON NEW GWB TO MATCH EXIST
- EXIST TEXTURED ACOUST SPRAY ON GWB
- SUSPENDED ACOUSTICAL PANEL CEILING (EXIST / NEW)
- LIGHTING FIXTURES - SEE ELECT DWGS (EXIST / NEW)

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

EXPIRES 12/31/2027

STATE OF MISSOURI REGISTERED ARCHITECT
G. STEPHEN SCOTT
NUMBER A-6720

SIGNED 10/31/2025

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10/01/2025
SOCIAL SERVICES
Division of Youth Services

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HILLSBORO, MISSOURI

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CAD DWG FILE: H2503-01_7710_88777-10003_A-701
DRAWN BY: GSS
CHECKED BY: WAB
DESIGNED BY: GSS/WAB

SHEET TITLE:
REFLECT CLG PLAN
BUILDING SECTIONS

SHEET NUMBER:
A-701

5 OF 20 SHEETS
10/31/2025

LEGEND:

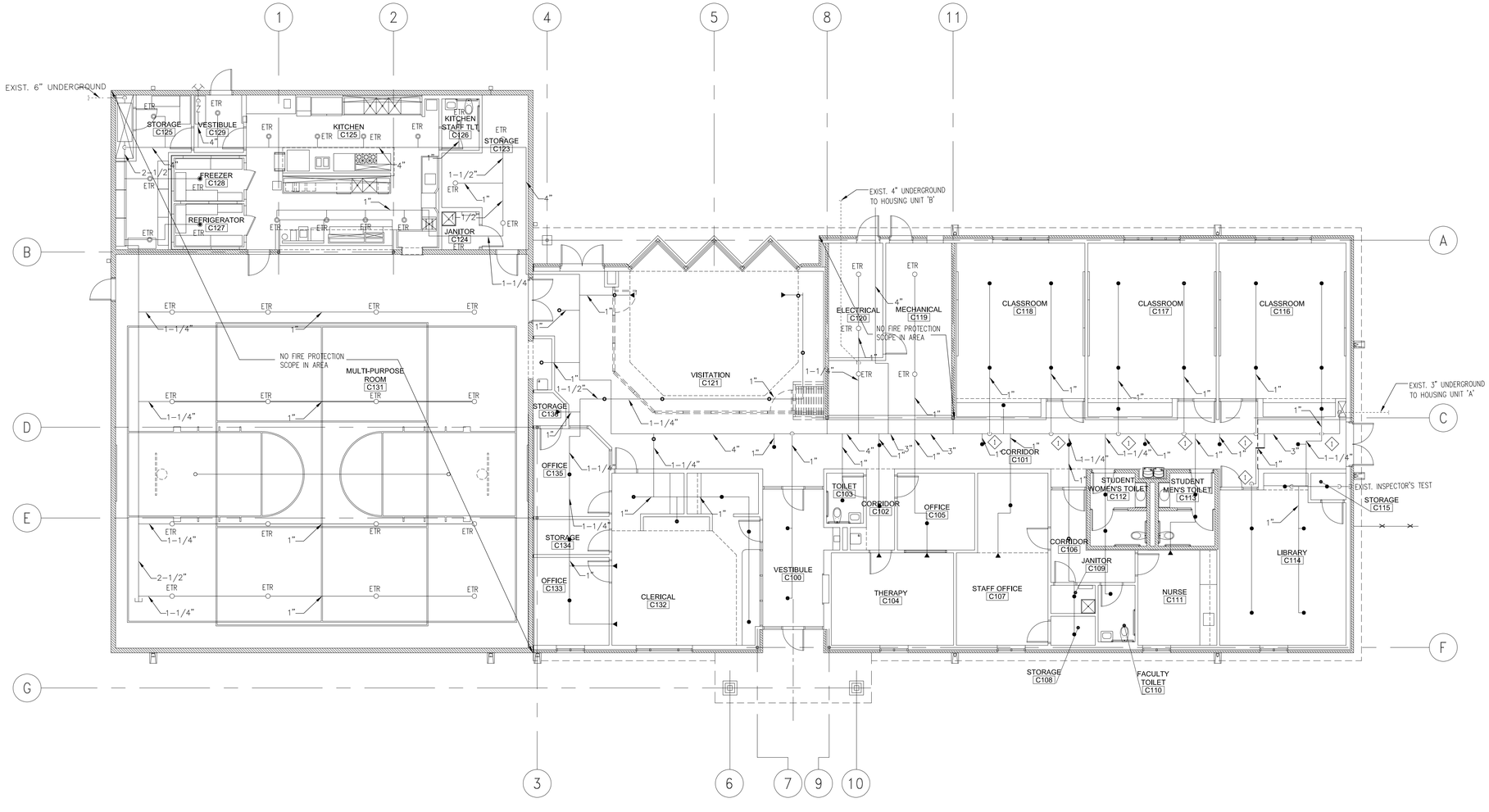
- ANTI LIGATURE SPRINKLER HEAD
- SIDEWALL SPRINKLER HEAD
- UPRIGHT SPRINKLER HEAD
- PENDANT SPRINKLER HEAD
- ETR — EXISTING TO REMAIN

KEYED NOTES

1. LOCATION WHERE FIRE SPRINKLER BRANCH PENETRATES RATED ASSEMBLY. APPLY PROPER FIRESTOPPING AT PENETRATION.

GENERAL NOTES

1. REPLACE ALL SPRINKLER HEADS WITHIN SCOPE BOUNDARIES UNLESS OTHERWISE NOTED.



N

PLAN

FIRE PROTECTION FLOOR PLAN

8 6 4 2 0 8 16

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

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

EXPIRES 12/31/2025

STATE OF MISSOURI
GEORGE EDWARD BERRY JR.
NUMBER E-2001015706
REGISTERED PROFESSIONAL ENGINEER

SIGNED 10/31/2025

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HILLSBORO, MISSOURI

PROJECT # H2503-01
SITE # 7710
FACILITY # 88777-10003

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ISSUE DATE: 10/31/2025

CAD DWG FILE:
DRAWN BY: ASF
CHECKED BY: GEB
DESIGNED BY: JPR

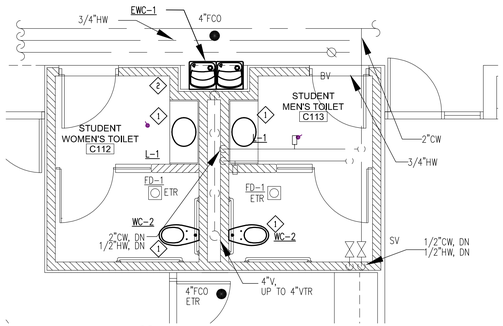
SHEET TITLE:

FIRE PROTECTION FLOOR PLAN

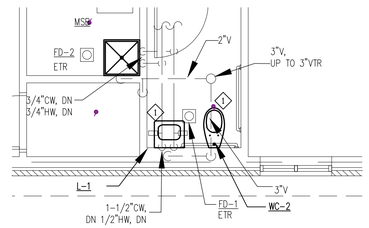
SHEET NUMBER:

F-101

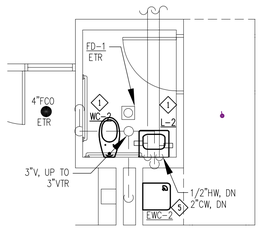
6 OF 20 SHEETS
10/31/2025



1 C112 AND C113 ENLARGED PLAN
P-101
GRAPHIC SCALE 1/4"=1'-0"



2 C110 ENLARGED PLAN
P-101
GRAPHIC SCALE 1/4"=1'-0"



3 C103 ENLARGED PLAN
P-101
GRAPHIC SCALE 1/4"=1'-0"

GENERAL NOTES:

1 REPLACE ANY DAMAGED DOMESTIC PIPE INSULATION WITHIN SCOPE OF WORK AS NEEDED. REFER SPECIFICATION SECTION 01 22 00 "UNIT PRICES", UNIT PRICE #14, #15, #16 FOR ADDITIONAL INFORMATION.

KEYED NOTES:

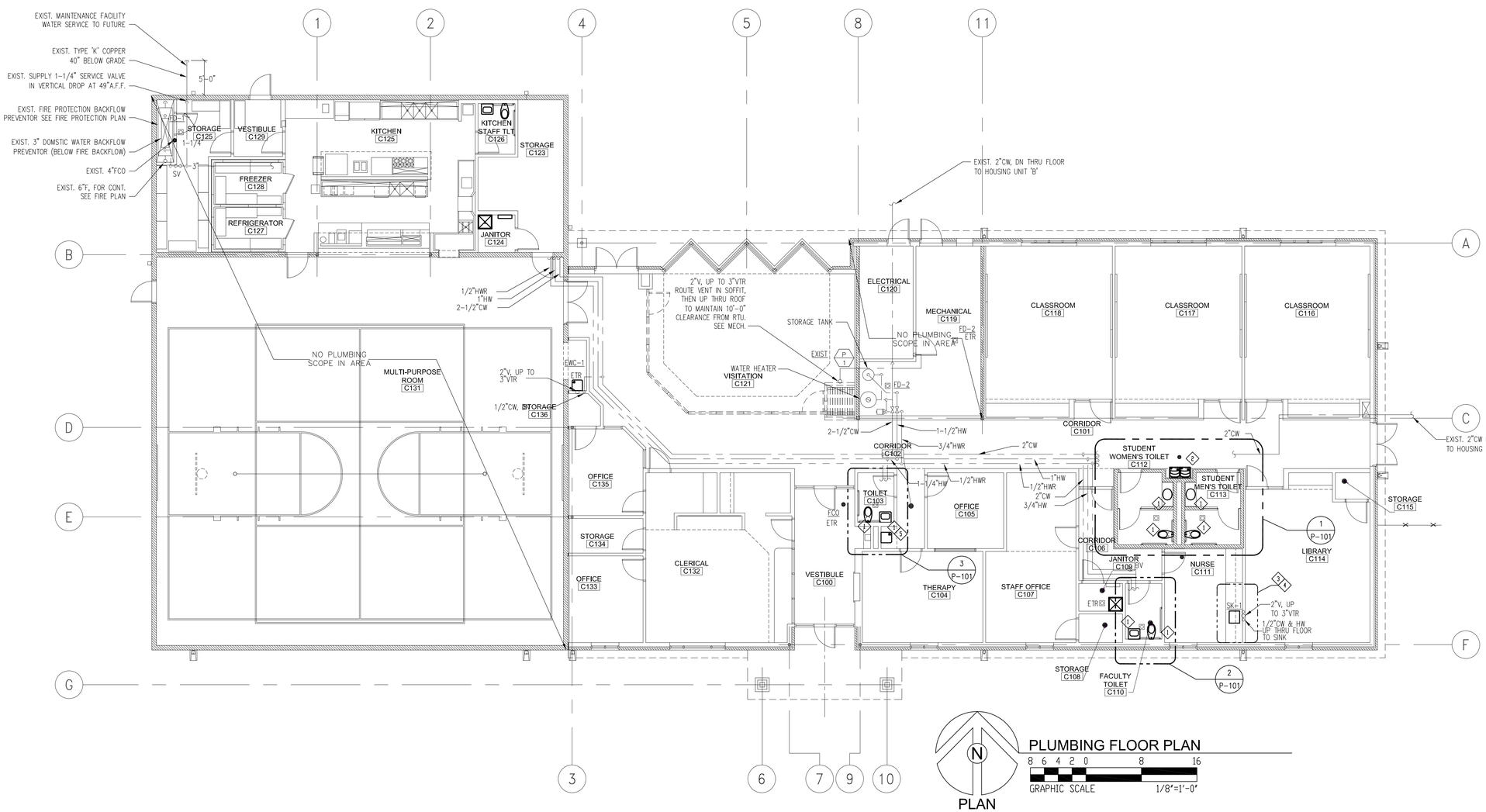
1 DISCONNECT AND REMOVE PLUMBING FIXTURE. SALVAGE FIXTURE, THOROUGHLY CLEAN, AND REINSTALL AFTER COMPLETION OF DRYWALL CONSTRUCTION. COORDINATE WITH ARCHITECTURAL.

2 DEMOLISH EXISTING ELECTRIC WATER COOLER. FURNISH AND INSTALL NEW HI-LO ELECTRIC WATER COOLER. FOR EWC, MEET REQUIREMENTS OF STAINLESS STEEL FINISH, 115V/60Hz POWER, MAXIMUM LENGTH OF 36 1/2", AND A CHILLING CAPACITY OF 8.0 GPH.

3 BASE BID: DEMOLISH EXISTING DOMESTIC SUPPLY VALVES, PIPING, AND SANITARY PIPING UP TO ACTIVE MAIN AND CAP WATER TIGHT TO ACCOMMODATE DRY WALL INSTALLATION.

4 ADD ALTERNATE #1: FURNISH AND INSTALL NEW ADA COMPLIANT, DROP IN SINK AND FAUCET. CONNECT TO EXISTING DOMESTIC SUPPLY AND SANITARY LINES. FOR SINK, MEET REQUIREMENTS OF BRUSHED SATIN FINISH, 304 STAINLESS STEEL MATERIAL, DIMENSIONS OF 25" x 17" x 6 1/2". FOR FAUCET, MEET REQUIREMENTS OF CHROME FINISH, 2" WRISTBLADE LEVER HANDLE, AND 0.5 GPM FLOWRATE.

5 REINSTALL EXISTING ELECTRIC WATER COOLER AT ORIGINAL ADA MOUNTING HEIGHT AS PRESCRIBED BY ANSI 117.1 – 1995.



N

PLUMBING FLOOR PLAN
PLAN
GRAPHIC SCALE 1/8"=1'-0"

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

EXPIRES 12/31/2025

GEORGE EDWARD BERRY JR. NUMBER E-2001015706 REGISTERED PROFESSIONAL ENGINEER STATE OF MISSOURI

SIGNED 10/31/2025

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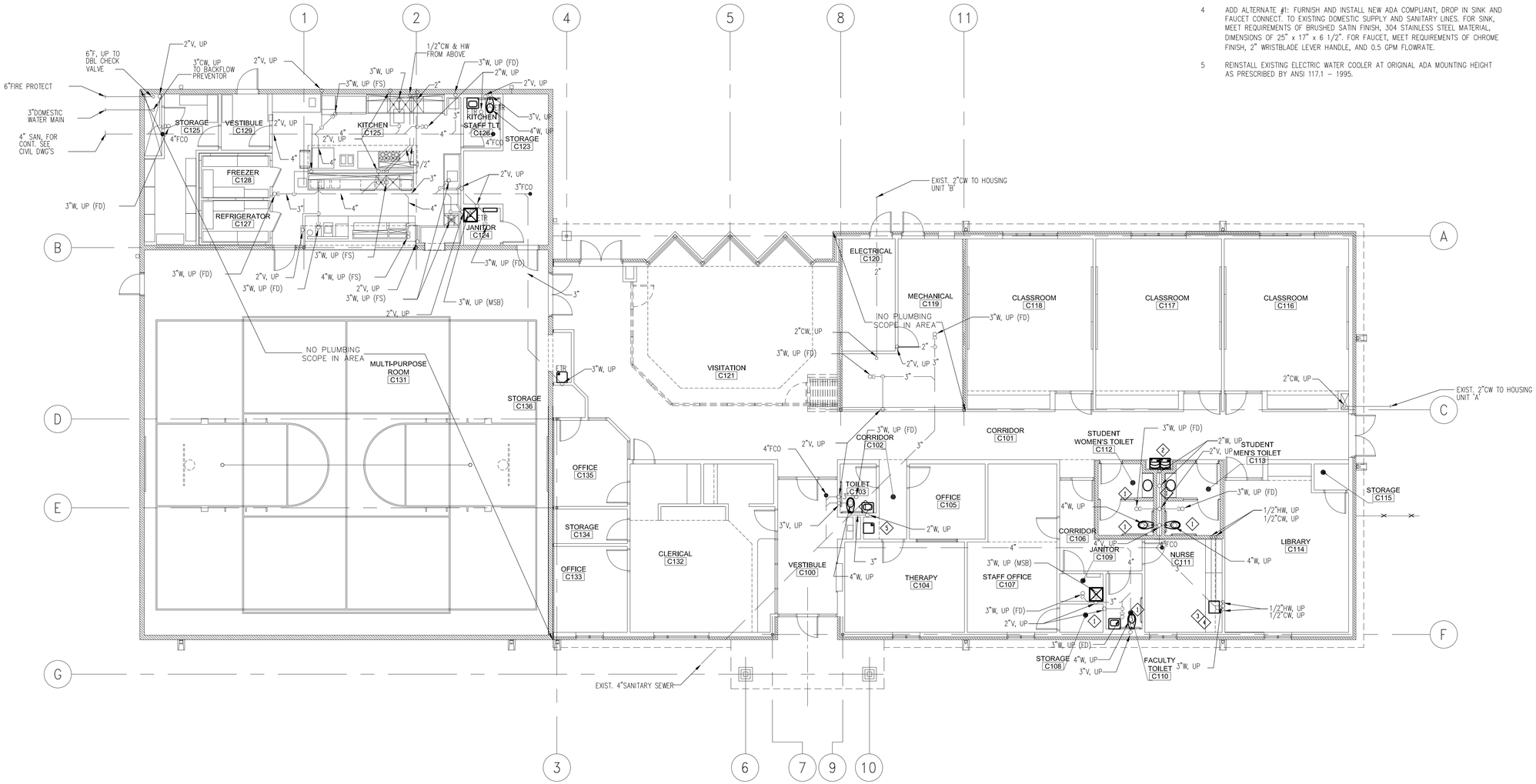
CAD DWG FILE:
DRAWN BY: ASF
CHECKED BY: GEB
DESIGNED BY: JPR

SHEET TITLE:
PLUMBING FLOOR PLAN

SHEET NUMBER:
P-101

7 OF 20 SHEETS
10/31/2025



N

PLAN

PLUMBING FOUNDATION FLOOR PLAN

8 6 4 2 0 8 16

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

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

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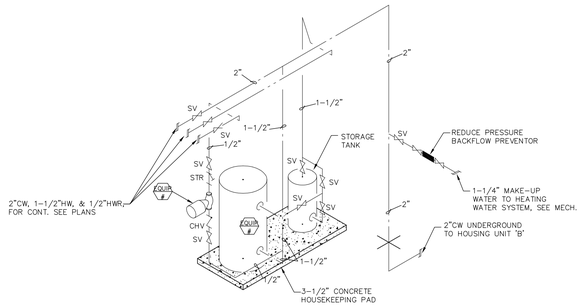
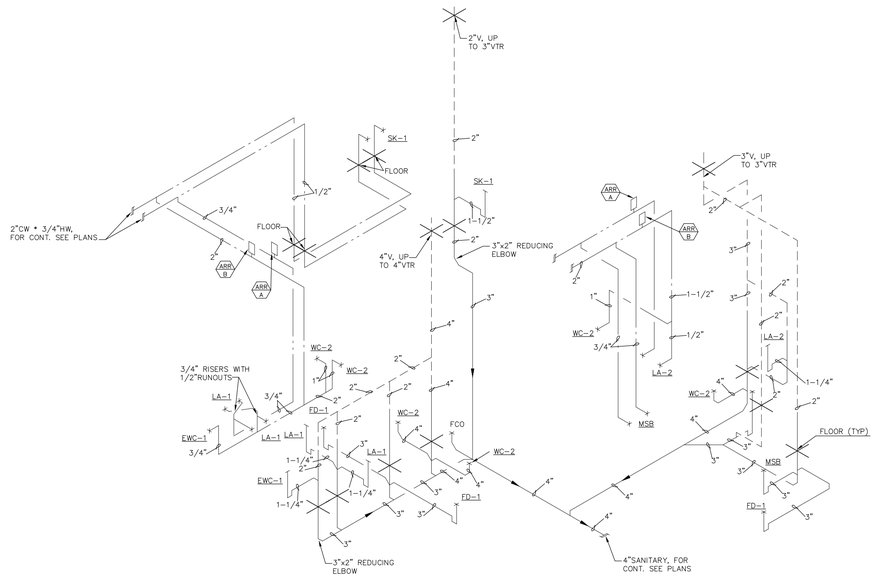
CAD DWG FILE:
DRAWN BY: ASF
CHECKED BY: GEB
DESIGNED BY: JPR

SHEET TITLE:
PLUMBING FOUNDATION FLOOR PLAN

SHEET NUMBER:
P-102

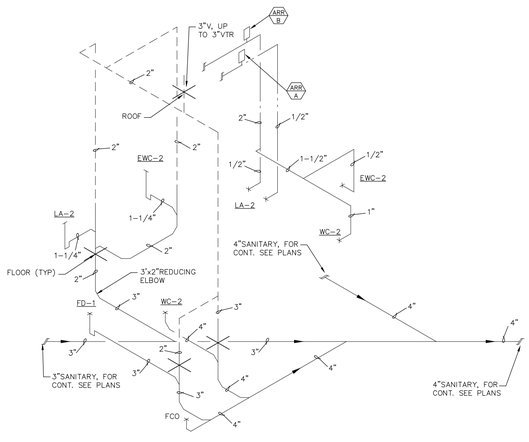
8 OF 20 SHEETS
10/31/2025





STUDENT TOILETS C112 AND C113, FACULTY TOILET C110, AND JANITOR C109 RISER

NO SCALE



CORE BUILDING TOILET #C103 RISER

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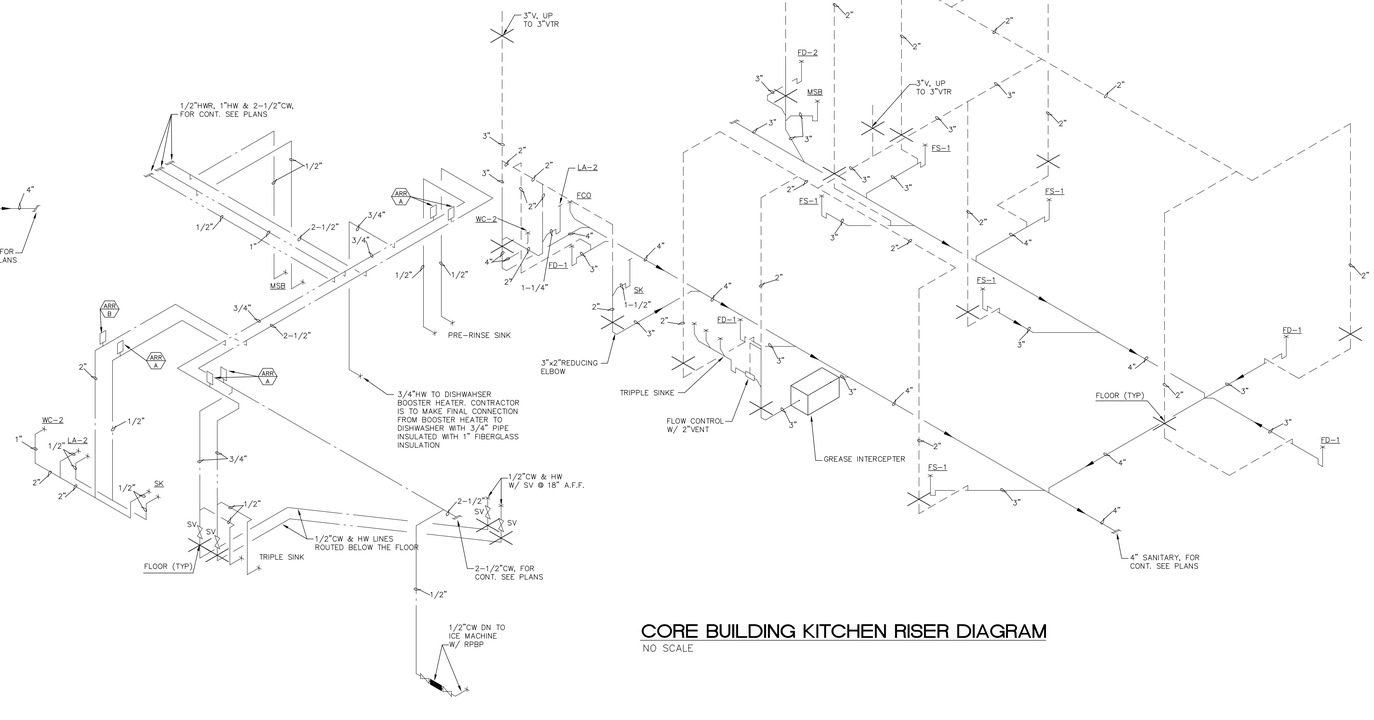

CORE BUILDING KITCHEN RISER DIAGRAM

NO SCALE

FOR REFERENCE ONLY

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CAD DWG FILE:
DRAWN BY: ASF
CHECKED BY: GEB
DESIGNED BY: JPR

SHEET TITLE:
PLUMBING RISERS

SHEET NUMBER:
P-103

9 OF 20 SHEETS
10/31/2025

CORE BUILDING AIR DEVICES SCHEDULE

DESIG.	MODEL NUMBER	TYPE	SERVICE	NECK SIZE	FACE SIZE	FINISH	REMARKS
CA	ANEMOSTAT DJ-2	JET	SUPPLY	2 @ 10"	14"x27"	WHITE	
CB	TITUS TDC	LOUVER	SUPPLY	12"ø	24"x24"	WHITE	PROVIDE DAMPER AG-95
CC	TITUS TDC	LOUVER	SUPPLY	8"ø	24"x24"	WHITE	PROVIDE DAMPER AG-95
CD	TITUS TDC	LOUVER	SUPPLY	6"ø	24"X24"	WHITE	PROVIDE DAMPER AG-95
CE	TITUS 300RL	SIDEWALL	SUPPLY	12"x12"	14"x14"	WHITE	PROVIDE DAMPER AG-15-AA
CF	TITUS 300RL	SIDEWALL	SUPPLY	12"x10"	14"x12"	WHITE	PROVIDE DAMPER AG-15-AA
CG	TITUS 300RL	SIDEWALL	SUPPLY	10"x10"	12"x12"	WHITE	PROVIDE DAMPER AG-15-AA
CH	TITUS 300RL	SIDEWALL	SUPPLY	8"x8"	10"x10"	WHITE	PROVIDE DAMPER AG-15-AA
CI	TITUS TDC	LOUVER	RETURN	18"x18"	24"x24"	WHITE	PROVIDE DAMPER AG-95
CJ	TITUS 350RL	SIDEWALL	RETURN	80"x30"	82"x32"	WHITE	
CK	TITUS 350RL	SIDEWALL	RETURN	12"x12"	14"x14"	WHITE	PROVIDE DAMPER AG-15-AA
CL	TITUS 350RL	SIDEWALL	RETURN	12"x10"	14"x12"	WHITE	PROVIDE DAMPER AG-15-AA
CM	TITUS 350RL	SIDEWALL	RETURN	10"x10"	12"x12"	WHITE	PROVIDE DAMPER AG-15-AA
CN	TITUS 350RL	SIDEWALL	RETURN	8"x8"	10"x10"	WHITE	PROVIDE DAMPER AG-15-AA
CO	TITUS TDC	LOUVER	EXHAUST	6"x6"	12"x12"	WHITE	PROVIDE DAMPER AG-95
CP	TITUS 350RL	SIDEWALL	EXHAUST	8"x6"	10"x8"	WHITE	
CR	TITUS 350RL	SURFACE MOUNT	FREEZE PROTECTION	6"x6"	8"x8"	WHITE	

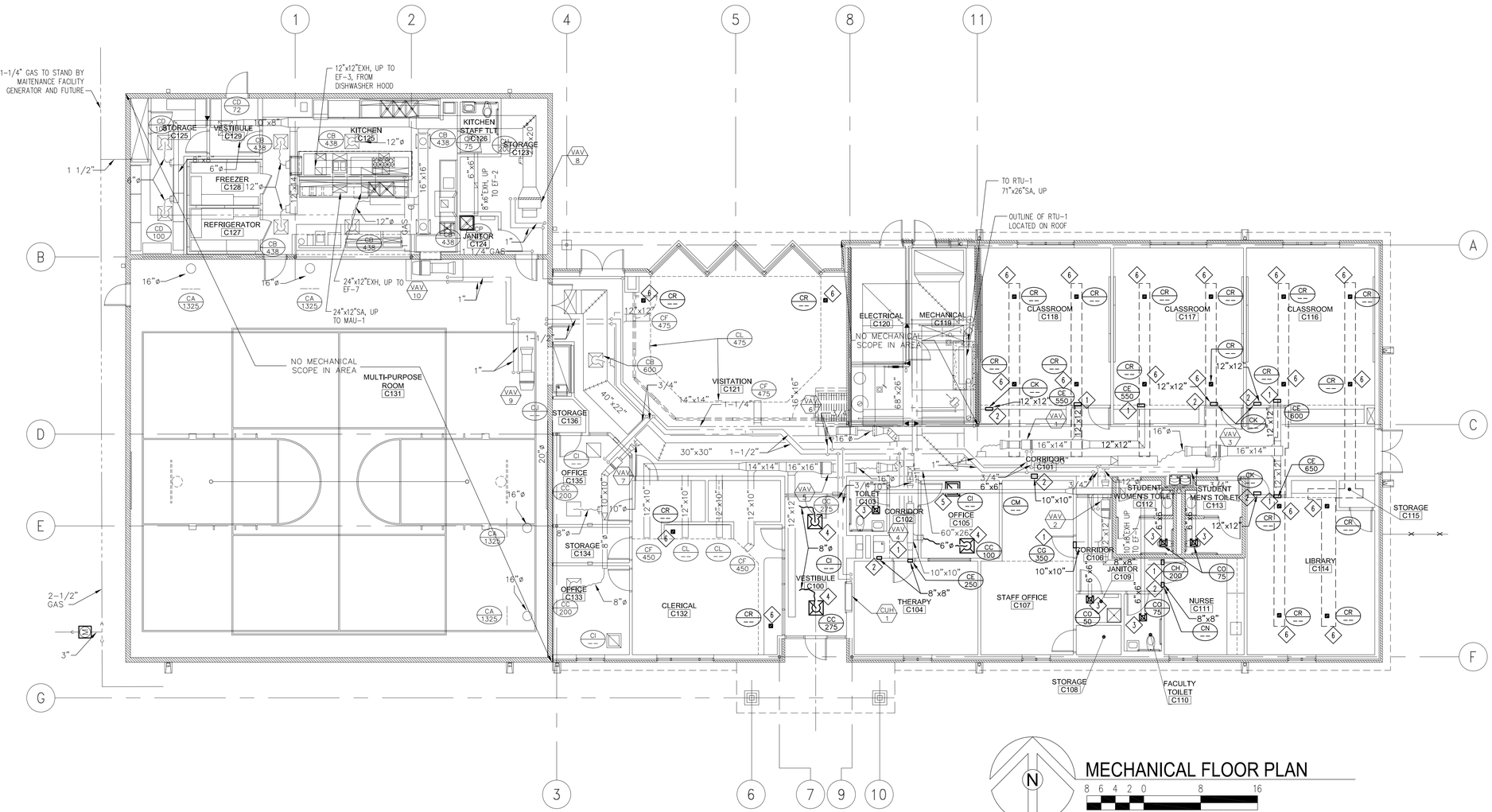
NOTE: ALL AIR DEVICES EXISTING UNLESS OTHERWISE NOTED.

GENERAL NOTES:

1. RE-WORK AND MODIFY EXISTING DUCTWORK TO CONNECT EXISTING GRILLES AND DIFFUSERS.
2. REPLACE ANY DAMAGED HYDRONIC PIPE INSULATION WITHIN SCOPE OF WORK AS NEEDED. REFER TO SPECIFICATION SECTION 01 22 00 "UNIT PRICES", UNIT PRICE #9, #10, #11, #12, AND #13 FOR ADDITIONAL INFORMATION.

KEYED NOTES:

1. FURNISH AND INSTALL NEW SUPPLY GRILLE, CONNECT TO EXISTING DUCTWORK, AND BALANCE TO VALUE GIVEN.
2. FURNISH AND INSTALL NEW RETURN GRILLE, CONNECT TO SLEEVE, AND INSTALL SO THE BLADES POINT UPWARDS.
3. FURNISH AND INSTALL NEW EXHAUST GRILLE AND CONNECT TO EXISTING DUCTWORK.
4. FURNISH AND INSTALL NEW SUPPLY DIFFUSER, CONNECT TO EXISTING DUCTWORK, AND BALANCE TO VALUE GIVEN.
5. FURNISH AND INSTALL RETURN GRILLE.
6. FURNISH AND INSTALL 6"X6" GRILLE UNDERNEATH SOFFIT/CONTAINMENT TO ALLOW ROOM AIR TO PROTECT FIRE SPRINKLER BRANCHES FROM FREEZING.



N

PLAN

MECHANICAL FLOOR PLAN

8 6 4 2 0 8 16

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

STATE OF MISSOURI
MICHAEL L. PARSON, GOVERNOR

EXPIRES 12/31/2025

STATE OF MISSOURI
GEORGE E. BROWN, JR.
NUMBER E-2001015706
REGISTERED PROFESSIONAL ENGINEER

SIGNED 10/31/2025

EDM Incorporated
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500 N. Broadway, Suite 1200, St. Louis, MO 63102
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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF SOCIAL SERVICES
Division of Youth Services

RENOVATIONS TO INTERIOR CORE BUILDING

HILLSBORO TREATMENT CENTER
HILLSBORO, MISSOURI

PROJECT # H2503-01
SITE # 7710
FACILITY # 88777-10003

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 10/31/2025

CAD DWG FILE:
DRAWN BY: ASF
CHECKED BY: GEB
DESIGNED BY: JPR

SHEET TITLE:
MECHANICAL FLOOR PLAN

SHEET NUMBER:
M-101

10 OF 20 SHEETS
10/31/2025

AIR HANDLING UNIT SCHEDULE

MARK	MFR.	DESC.	MODEL	LOCATION	SERVING	HP	VOLTS/ PHASE	SUPPLY FAN TYPE	SUPPLY FAN # OF FANS	SUPPLY FAN TOTAL CFM	SUPPLY FAN ESP. IN. W.C. MAX(2)	COOLING CAP, MBH TOT. MIN.	COOLING CAP, MBH SENS. MIN.	COOLING EAT (°F) DB/WB	COOLING LAT (°F) DB/WB	COOLING ROWS	COOLING FINS PER FT. MAX	COOLING MAX. COIL FACE VEL. (FPM)	ECON CYCLE	MIN. O.A. CFM	FILTER (3) TYPE	FILTER (3) EFF.	NOTES
AHU-1	TRANE	(1)	CLIMATE #8	MECH RM	HOUSING BLDG. 'A'	3	208/3	CENTR.	2	2610	1.75	131.5	116.2	78.0/64.8	55.8/53.2	4	144	500	YES	425	2"	30%	
AHU-2	TRANE	(1)	CLIMATE #10	MECH RM	HOUSING BLDG. 'B'	3	208/3	CENTR.	2	4855	1.75	131.5	116.2	78.0/64.8	55.8/53.2	4	144	500	YES	425	2"	30%	

(1) VERTICAL DRAW THROUGH.
(2) INCLUDES THE STATIC PRESSURE DROP ASSOCIATED WITH THE DUCT FURNACE
(3) FILTER SHALL BE FARR 30-30 OR EQUAL BY AMERICAN AIRFILTER.

CONDENSING UNIT SCHEDULE

MARK	MFR.	MODEL	COOLING CAP. MBH	COOLING CAP. STEPS	O.A. TEMP. DES. AMB. (°F)	O.A. TEMP. MIN. AMB. (°F)	COMPR. QTY.	COMPR. NOM. TONS EA.	CONDENSER AIR-COOLED QTY. FANS	CONDENSER AIR-COOLED HP EA.	CONDENSER AIR-COOLED NOM. RPM	UNIT E.E.R (3)	ARI SOUND RATING BELS (2)	REFR	NOTES
CU-1	TRANE	TTA120B	180	2 (4)	100	55	2	7.5	2	\	1100	10.6	8.8	R-22	(1) UNIT 'A'
CU-2	TRANE	TTA120B	180	2 (4)	100	55	2	7.5	2	\	1100	10.6	8.8	R-22	(1) UNIT 'B'

(1) INSTALL REFRIGERANT PIPING PER MANUFACTURERS RECOMMENDATIONS.
(2) AS RATED IN ACCORDANCE WITH ARI STD 270 OR 370.
(3) CONDENSING UNIT ONLY GROSS COOLING CAPACITY RATED AT 45°F SATURATED SUCTION TEMPERATURE AND AT 95°F AMBIENT ARI STANDARD.
(4) ONE SPEED FOR EACH COMPRESSOR.

ROOFTOP PACKAGED AIR CONDITIONING UNIT

MARK	MFR.	MODEL NO.	NOMINAL TONS (COOLING)	REFRIG.	UNIT CFM	MIN. OUTSIDE AIR CFM	DX COOLING COIL TOT. CAP. MBH	DX COOLING COIL MIN. SENS. CAP. MBH	DX COOLING COIL ENT. AIR DB/WB °F	INDIRECT FIRED GAS HEATING SECTION FUEL TYPE	INDIRECT FIRED GAS HEATING SECTION FIRING STAGES	INDIRECT FIRED GAS HEATING SECTION TOT. CAP. MBH (3)	INDIRECT FIRED GAS HEATING SECTION ENT. AIR DB °F	HEATING FUEL INPUT MBH (3)	HEATING FUEL HEATING VALUE BTU/CF	SUPPLY FAN FLOW CFM	SUPPLY FAN EXT. S.P. IN W.C.	SUPPLY FAN HP	CONDENSER TYPE	CONDENSER AMBIENT. TEMP. °F	COMPRESSORS NO. OF COMP.	COMPRESSORS MIN EER	ELECTRICAL VOLTS	ELECTRICAL PHASE	NOTES
RTU-1	YORK		40	R-22	15,050	2500	526.8	430.9	79.6/65.5	NG	MODUL.	314	30.5	392	1000	15,050	1.2	15	AIR	100'	2	8.2	208/3	3	1,2,3,4

(1) UNIT SHALL BE PROVIDED WITH TWO POWERED EXHAUST (RELIEF) FANS SIZED FOR 25% EACH OF TOTAL DESIGN FLOW AT 0.25" ESP. FANS SHALL BE TWO SPEED (HIGH AND LOW).
(2) UNIT SHALL BE PROVIDED WITH 2", 30% EFFICIENT FILTERS, FARR 30-30 OR EQUAL BY AMERICAN AIR FILTER.
(3) HIGH STAGE IS TOTAL HEATING CAPACITY.
(4) MANUFACTURERS LISTED IN SPECIFICATION SHALL REVIEW ROOF PLAN SHEET M-2.10 VERIFY IF ANY DERATION IS NECESSARY BASED ON LAYOUT OF RTU. RTU SHALL ALSO BE PHYSICALLY EQUAL TO OR SMALLER IN SIZE THAN THE ONE SHOWN ON THE PLANS.

BOILER SCHEDULE

MARK	MFR.	MODEL	TYPE	SERVICE	CAPACITY, MBH GROSS OUTPUT	CAPACITY, MBH GROSS INPUT	MIN. EFF. (4)	WATER TEMP (°F) MAX. OP	WATER TEMP (°F) DES TD	WATER FLOW (GPM)	MAX. WPD (FT)	BURNER GAS TYPE	BURNER GAS HEATING VALUE BTU/CF	NOTES
B-1	LOCHINVAR	CHN0750	COPPER FIN 2	CORE BUILDING	638	750	85%	190	40	34.3	2.5	NATURAL	1000	

(1) UNIT SHALL BE PROVIDED WITH LOW WATER CUT-OFF, MANUAL RESET HIGH LIMIT, AND FLOW SWITCH.
(2) PROVIDE WITH ELECTRONIC CONTROL WITH HOT SURFACE IGNITION.
(3) PROVIDE WITH MODULATING ELECTRONIC PILOT SUPERVISION, SPARK IGNITION WITH 4 SECOND MAIN GAS SHUTDOWN. AT FULL LOAD.
(4) PROVIDE WITH UNIT MOUNTED PUMP CAPABLE OF 10 GPM AT 10' WPD.

FAN SCHEDULE

MARK	MFR.	MODEL	TYPE	SERVICE	CFM	STATIC PRESS. (IN. W.C.)	FAN RPM	HP	VOLTS/ PHASE	DRIVE TYPE	NOTES
EF-1	COOK	ACE-D 090C150M	CENTRIFUGAL ROOF VENTILATOR	CORE BLDG. TLTS	350	.375	1570	1/8	120/1	DIRECT	(1) (2) (3)
EF-2	COOK	ACE-D 70C150H	CENTRIFUGAL ROOF VENTILATOR	CORE BLDG. TLTS	125	.375	1550	1/20	120/1	DIRECT	(1) (3)
EF-3	COOK	ACE-B 100C2B	CENTRIFUGAL ROOF VENTILATOR	DISHWASHER	800	.375	1825	1/6	120/1	DIRECT	(1) (3)
EF-4	COOK	90SQ12D	CENTRIFUGAL INLINE	UNIT 'A'	500	.375	1200	1/6	120/1	DIRECT	(3) (4)
EF-5	COOK	80SQ15D	CENTRIFUGAL INLINE	UNIT 'B'	425	.375	1350	1/6	120/1	DIRECT	(3) (4)
EF-6	COOK	80SQ15D	CENTRIFUGAL INLINE	UNIT 'B'	425	.375	1350	1/6	120/1	DIRECT	(3) (4)
EF-7	GREEN-HECK	CUBE 180	UP-BLAST	HOOD EXHAUST	3296	.375	1075	1.5	208/3	DIRECT	(3)

(1) PROVIDE WITH 12" HIGH ROOF CURB WITH INTEGRAL AUTOMATIC DAMPER SUPPLIED BY FAN MANUFACTURER.
(2) PROVIDE WITH UNIT MOUNTED DISCONNECT SWITCH.
(3) PROVIDE WITH UNIT MOUNTED FAN SPEED CONTROLLER.
(4) PROVIDE WITH HANGING VIBRATION ISOLATORS.

DUCT FURNACE

MARK	LOCATION	MODEL	CFM	MAX. APD	MBH INPUT	MBH MIN. OUTPUT	EAT	NOTES
DF-1	HOUSING UNIT 'A'	HSC-125	3650	.72"	125	96.25	63.5	
DF-2	HOUSING UNIT 'B'	HSC-125	3645	.72"	125	96.25	63.5	

VARIABLE VOLUME UNIT SCHEDULE

VAV UNIT NO.	AHU NO.	MODEL NO.	INLET SIZE IN.	'AREA SERVED'	PRIMARY FLOW CONDITIONS DES. CFM	PRIMARY FLOW CONDITIONS MIN. CFM	PRIMARY FLOW CONDITIONS MAX. S.P.	HEATING COIL DATA CFM	HEATING COIL DATA MIN MBH	HEATING COIL DATA EAT	HEATING COIL DATA EWT	HEATING COIL DATA GPM	MAX. WPD	REMARKS
VAV-1	RTU-1	TITUS ESV12	12"ø	CLASSROOMS	1100	0	0.35	500	20.8	55	180	1.5		
VAV-2	RTU-1	TITUS ESV09	9"ø	NURSE/OFFICE	550	0	0.35	200	10.1	55	180	1.0		
VAV-3	RTU-1	TITUS ESV14	14"ø	CLASSROOM/LIBRARY	1250	0	0.35	650	28.2	55	180	3.0		
VAV-4	RTU-1	TITUS ESV06	6"ø	OFFICE/THERAPY	350	0	0.35	150	7.3	55	180	1.0		
VAV-5	RTU-1	TITUS ESV14	14"ø	CLERICAL	1450	0	0.35	550	22.0	55	180	1.5		
VAV-6	RTU-1	TITUS ESV12	12"ø	VISITATION/VESTIBULE	1550	0	0.35	650	28.2	55	180	3.0		
VAV-7	RTU-1	TITUS ESV06	6"ø	OFFICES	400	0	0.35	200	7.5	55	180	1.0		
VAV-8	RTU-1	TITUS ESV24X16	24"/16"	KITCHEN	3100	0	0.35	1500	41.0	55	180	4.5		
VAV-9	RTU-1	TITUS ESV16	16"ø	MULTI-PURPOSE	2650	0	0.35	1000	59.8	55	180	6.0		
VAV-10	RTU-1	TITUS ESV16	16"ø	MULTI-PURPOSE	2650	0	0.35	1000	59.8	55	180	6.0		

NOTE: MAX S.P. IS THE TOTAL PRESSURE DROP ACROSS THE BOX AND THE COIL.

CABINET UNIT HEATER SCHEDULE

MARK	LOCATION	MFR.	MODEL	ARRANGEMENT	CFM	HP	HEATING EAT (°F)	HEATING MBH	HEATING GPM	HEATING EWT (°F)	HEATING TD (°F)	HEATING WPD (FT.)	ELEC. DATA V	ELEC. DATA PH	ELEC. DATA HZ	NOTES
CUH-1	MAIN ENTRY	VULCAN	RW-02	RECESSED WALL	185	1/15	60	15.6	0.9	185	35	0.25	120	1	60	(1) (2)

(1) PROVIDE WITH MOTOR STARTER W/ MANUAL RESET TOGGLE SWITCH AND THERMAL OVERLOAD.
(2) PROVIDE WITH DISCONNECT SWITCH WITH MOTOR OVERLOAD PROTECTION INSTALLED IN WIRING TO MOTOR.

PUMP SCHEDULE

MARK	MFR.	MODEL	PUMP TYPE	GPM	TDH (FT.)	MIN. EFF.	NPSH REQ'D. (FT.)	FLUID TEMP. (MAX °F)	RPM	HP	VOLTS/ PHASE	NOTES
P-1	BELL & GOSSETT	LITTLE RED	IN-LINE	10	8'	--	--	--	--	1/20	110/1	
P-2	BELL & GOSSETT	LITTLE RED	IN-LINE	10	8'	--	--	--	--	1/20	110/1	
P-3	BELL & GOSSETT	LITTLE RED	IN-LINE	10	8'	--	--	--	--	1/20	110/1	
P-4	BELL & GOSSETT	SERIES 60	IN-LINE	34.2	32	42	--	190	1770	3/4	208/3	

UNIT HEATER SCHEDULE

MARK	MFR.	MODEL	HEAT CAP (MBH)	EAT (F°)	EWT (F°)	GPM	WATER PD (FT. HD.)	CFM	HP	VOLTS/ PHASE	NOTES
UH-1	TRANE	18-S	2.5	60	185	0.15	0.10	280	1/25	120/1	(1)

(1) WITH UNIT-MOUNTED THERMOSTAT

SPLIT SYSTEM SCHEDULE

PLAN MARK	SERVES	LOCATION	MANUFACTURER MODEL	COOLING COIL MODEL	COOLING DATA NOMINAL TONS	COOLING DATA TOTAL CAP (MBH)	COOLING DATA SENS CAP (MBH)	COOLING DATA OA TEMP DB°F	COOLING DATA OA TEMP WB°F	INDOOR UNIT PLAN MARK	INDOOR UNIT MODEL	INDOOR UNIT SA CFM	INDOOR UNIT OA CFM	INDOOR UNIT HEATING CAP (MBH)	INDOOR UNIT NAT GAS INPUT (MBH)	INDOOR UNIT OA AIR TEMP °F	INDOOR UNIT LAT TEMP °F	ELECTRICAL V	ELECTRICAL PH	ELECTRICAL FLA	WEIGHT (LBS) INDOOR	WEIGHT (LBS) OUTDOOR	REFRIGERANT	ACCESSORIES
CU-1	HOUSING UNIT 'B' F-1	GRADE	TRANE 4TTA3036	TRANE 4TXCC036	3	36.0	33.5	95	75	F-1	UH2B060A836VA	1215	215	57.6	60	-10	102	115	1	8.2	150	365	410A	1-6
CU-2	HOUSING UNIT 'B' F-2	GRADE	TRANE 4TTA3036	TRANE 4TXCC036	3	36.0	33.5	95	75	F-2	UH2B060A836VA	1215	215	57.6	60	-10	102	115	1	8.2	150	365	410A	1-6
CU-3	HOUSING UNIT 'B' F-3	GRADE	TRANE 4TTA3036	TRANE 4TXCC036	3	36.0	33.5	95	75	F-3	UH2B060A836VA	1215	215	57.6	60	-10	102	115	1	8.2	150	365	410A	1-6
CU-4	HOUSING UNIT 'B' F-4	GRADE	TRANE 4TTA3036	TRANE 4TXCC036	3	36.0	33.5	95	75	F-4	UH2B060A836VA	1215	215	57.6	60	-10	102	115	1	8.2	150	365	410A	1-6

ACCESSORIES:
1. MAX OUTDOOR TEMP 115°F, MIN OUTDOOR TEMP 0°F.
2. DISPOSABLE FILTER IN RETURN SECTION.
3. PROVIDE FACTORY MOUNTED DISCONNECT.
4. EQUIP FOR LOW AMBIENT OPERATION WITH WIND BAFFLE.
5. EQUIPPED WITH REMOTE DIGITAL THERMOSTAT WITH REMOTE SENSOR.
6. PROVIDE DISCONNECT FOR FURANCE.

NOTES:
1. INDOOR FURNACE F-1 AND F-2 SHALL BE TWINNED AND SERVE THE SPACE USING A COMMON SUPPLY AIR DUCT MAIN.
2. INDOOR FURNACE F-3 AND F-4 SHALL BE TWINNED AND SERVE THE SPACE USING A COMMON SUPPLY AIR DUCT MAIN.

FOR REFERENCE ONLY

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

EXPIRES 12/31/2025

GEORGE EDWARD BEARD JR.
NUMBER E-2001015706
REGISTERED PROFESSIONAL ENGINEER
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MECHANICAL
SCHEDULES

SHEET NUMBER:
M-601

11 OF 20 SHEETS
10/31/2025

ELECTRICAL SYMBOLS

LIGHTING FIXTURES

- 2' X 4' FLUORESCENT RECESS MOUNTED
- 2' X 4' FLUORESCENT SURFACE/PENDANT MOUNTED
- 2' X 4' FLUORESCENT EMERGENCY LIGHT
- 2' X 2' FLUORESCENT RECESS MOUNTED
- 2' X 2' FLUORESCENT SURFACE/PENDANT MOUNTED
- 2' X 2' FLUORESCENT EMERGENCY LIGHT
- 1' X 4' FLUORESCENT RECESS MOUNTED
- 1' X 4' FLUORESCENT SURFACE/PENDANT MOUNTED
- 1' X 4' FLUORESCENT EMERGENCY LIGHT
- 1' X 4' FLUORESCENT WALL MOUNTED EMERGENCY LIGHT
- 1' X 4' FLUORESCENT WALL MOUNTED
- FLUORESCENT STRIP RECESS MOUNTED
- FLUORESCENT STRIP SURFACE/PENDANT MOUNTED
- FLUORESCENT STRIP SURFACE/PENDANT MOUNTED
- INCANDESCENT, PL DOWN LIGHT, HIGH INTENSITY DISCHARGE TYPE FIXTURE, ETC. RECESS MOUNTED
- INCANDESCENT, PL DOWN LIGHT, HIGH INTENSITY DISCHARGE TYPE FIXTURE, ETC. SURFACE/PENDANT MOUNTED
- INCANDESCENT, PL DOWN LIGHT, HIGH INTENSITY W/EMERGENCY LIGHT DISCHARGE
- INCANDESCENT, PL FLUORESCENT LIGHT, HIGH INTENSITY DISCHARGE TYPE FIXTURE, ETC. WALL MOUNTED
- INCANDESCENT, PL FLUORESCENT LIGHT, HIGH INTENSITY W/EMERGENCY LIGHT DISCHARGE TYPE FIXTURE, ETC. WALL MOUNTED
- EXIT SIGN (INCANDESCENT/FLUORESCENT) CEILING MOUNTED
- EXIT SIGN (INCANDESCENT/FLUORESCENT) WALL MOUNTED END
- EXIT SIGN (INCANDESCENT/FLUORESCENT) WALL MOUNTED FLAT
- POLE MOUNTED LIGHTING FIXTURE (NUMBER OF HEADS AS SHOWN)

RECEPTACLES

- SINGLE CONVENIENCE OUTLET, WALL MOUNTED RECESSED +18" AFF
- DUPLEX CONVENIENCE OUTLET, WALL MOUNTED RECESSED +18" AFF
- DUPLEX CONVENIENCE OUTLET, WALL MOUNTED RECESSED ABOVE COUNTER +44" AFF
- DOUBLE DUPLEX CONVENIENCE OUTLET, WALL MOUNTED RECESSED +18" AFF
- DOUBLE DUPLEX CONVENIENCE OUTLET, WALL MOUNTED RECESSED ABOVE COUNTER +44" AFF
- GFI DUPLEX CONVENIENCE OUTLET, WALL MOUNTED RECESSED +18" AFF
- SPECIAL PURPOSE OUTLET, WALL MOUNTED RECESSED +18" AFF SEE NOTE ON PLAN FOR SIZE
- FLOOR MOUNTED OUTLET, SEE PLAN FOR TYPE AND SIZE
- WALL MOUNTED JUNCTION BOX WITH FINISHED BLANK COVER PLATE, WALL MOUNTED RECESSED +18" AFF
- JUNCTION BOX ABOVE CEILING

COMMUNICATION DEVICES

- T — TELEPHONE OUTLET WALL MOUNTED +18"
- D — DATA OUTLET (COMPUTER) WALL MOUNTED +18"
- IM — INTERCOM MASTER STATION OUTLET
- I — INTERCOM OUTLET WALL MOUNTED +18"
- M — MICROPHONE OUTLET WALL MOUNTED +18"
- TD — COMBINATION TELEPHONE AND DATA OUTLET WALL MOUNTED +18"
- TV — TELEVISION ANTENNA OUTLET WALL MOUNTED +18"
- CCTV — CLOSED CIRCUIT TELEVISION CAMERA
- MC — MAGNETIC CONTACTS
- ML — MAGNETIC LOCK
- T — TELEPHONE OUTLET FLOOR MOUNTED
- D — DATA OUTLET FLOOR MOUNTED
- IM — INTERCOM MASTER STATION OUTLET FLOOR MOUNTED
- I — INTERCOM OUTLET FLOOR MOUNTED
- M — MICROPHONE OUTLET FLOOR MOUNTED
- TD — COMBINATION TELEPHONE AND DATA OUTLET FLOOR MOUNTED
- TV — TELEVISION ANTENNA OUTLET FLOOR MOUNTED
- PUSH-BUTTON WALL MOUNTED +48"
- MUSHROOM HEAD/EMERGENCY PUSH BUTTON
- S — SPEAKER CEILING MOUNTED
- S — SPEAKER WALL MOUNTED +7'-6"
- S V — SPEAKER VOLUME CONTROL WALL MOUNTED +4'-6"
- PROGRAM BELL WALL MOUNTED +7'-6"
- AC — NEW ACCESS CONTROL SYSTEM OUTLET BOX AND COVER
- 1 — NEW DATA DEVICE. NUMERAL INDICATES NUMBER OF DATA JACKS (DROPS)
- —BT— NEW BASKET TRAY FOR LOW VOLTAGE SYSTEMS

FIRE ALARM

- F — PULL STATION WALL MOUNTED +4'-6"
- F PA — PRE ACTION PULL STATION WALL MOUNTED +4'-6"
- F V — COMBINATION ALARM HORN AND VISUAL DEVICE WALL MOUNTED +6'-8"
- F V — VISUAL DEVICE WALL MOUNTED +6'-8"
- F S — ALARM SPEAKER CEILING MOUNTED
- F R — FIRE ALARM RELAY
- F H — HEAT DETECTOR FIXED TEMPERATURE
- F HD — HEAT DETECTOR RATE OF RISE
- F WF — WATER FLOW SWITCH
- F TS — TAMPER SWITCH
- F SD — SMOKE DETECTOR
- F DD — SMOKE DETECTOR DUCT MOUNTED
- CMX — FIRE ALARM CONTROL MODULE
- MMX — FIRE ALARM MONITOR MODULE

ABBREVIATIONS

A.C.S.	—	ACCESS CONTROL SYSTEM
A.F.F.	—	ABOVE FINISHED FLOOR
ATS	—	AUTOMATIC TRANSFER SWITCH
B.C.	—	BELOW CEILING
C	—	CONDUIT
CAM	—	CAMERA
CB	—	CIRCUIT BREAKER
CC	—	CONTROL CONTACTOR
CCTV	—	CLOSED CIRCUIT TELEVISION
CCW	—	COUNTER CLOCKWISE
CW	—	CLOCKWISE
DCU	—	DISTRIBUTED CONTROLLER UNIT
DN	—	DOWN
DP	—	DISTRIBUTION PANEL
DR	—	DOCTORS REGISTER
DT	-	DUSTTIGHT
DWG	-	DRAWING
ELC	-	ELECTRICAL CONTRACTOR
ELEC	-	ELECTRIC/ELECTRICAL
ER	-	EXISTING RELOCATED
ETR	-	EXISTING TO REMAIN
FA	-	FIRE ALARM
FAAP	-	FIRE ALARM ANNUNCIATOR PANEL
FACP	-	FIRE ALARM CONTROL PANEL
FADC	-	FIRE ALARM DIGITAL COMMUNICATOR
FM	-	F/O MODEM
F/O	-	FIBER OPTIC
FS	-	FUSIBLE SWITCH
GF	-	GROUND FAULT
GFCI	-	GROUND FAULT CIRCUIT INTERRUPTER
GRD	-	GROUND
GRS	-	GALVANIZED RIGID STEEL
HH	—	HANDHOLE
I/O	—	INPUT/OUTPUT
LAN	—	LOCAL AREA NETWORK
LP	—	LIGHTING PANEL
MATV	—	MASTER ANTENNA TELEVISION
MCC	—	MOTOR CONTROL CENTER
MCP	—	MOTOR CONTROL PANEL
MH	—	MANHOLE
MOD	—	MODULATOR
MT	—	EMPTY CONDUIT
NC	—	NURSE CALL
NL	—	NIGHT LIGHT
OE	—	OVERHEAD ELECTRIC
PA	—	PUBLIC ADDRESS
PI	—	PORTABLE INTERFACE
P.I.R.	—	PASSIVE INFRA RED
PP	—	POWER PANEL
PR.	—	PAIR
PVC	—	POLYVINYL CHLORIDE CONDUIT
R	—	RECESSED
RF	—	RADIO FREQUENCY
RT	—	RAINTIGHT
SHLD	—	SHIELDED (AS IN CABLE)
SPS	—	SMART POWER SUPPLY
SWBD	—	SWITCHBOARD
T	—	TELEPHONE
TYP.	—	TYPICAL
UNG	—	UNGROUNDED
UPS	—	UNINTERUPTIBLE POWER SUPPLY
VT	—	VAPORTIGHT
WT	—	WATERTIGHT
XP	—	EXPLOSION PROOF

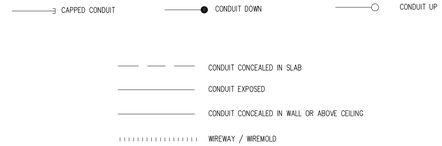
POWER EQUIPMENT

- LIGHTING PANELBOARD
- DISTRIBUTION PANEL, M.C.C, ETC.
- VFD — VARIABLE FREQUENCY DRIVE
- CP — FACTORY WIRED CONTROL PANEL
- TRANSFORMER, SEE PLAN FOR TYPE AND SIZE
- M PL — SINGLE PHASE MANUAL MOTOR STARTER WITH PILOT LIGHT
- J — DISCONNECT SWITCH
- SINGLE PHASE MAGNETIC STARTER
- THREE PHASE MAGNETIC STARTER
- J — COMBINATION MAGNETIC STARTER/DISCONNECT SWITCH
- 208V, 3 PHASE MOTOR
- 120V, 1 PHASE MOTOR

SWITCHES

- SINGLE POLE TOGGLE SWITCH
- 3 — 3 WAY TOGGLE SWITCH
- 4 — 4 WAY TOGGLE SWITCH
- PL — PILOT LIGHTED TOGGLE SWITCH
- K — KEY OPERATED TOGGLE SWITCH
- R — SINGLE POLE DOUBLE THROW CENTER OFF TOGGLE SWITCH
- DIMMER SWITCH
- 3 — 3 WAY DIMMER SWITCH
- OS — NEW WALL MOUNTED OCCUPANCY SENSOR AT TOGGLE SWITCH HEIGHT
- OS — NEW CEILING MOUNTED OCCUPANCY SENSOR
- OS — NEW WALL MOUNTED OCCUPANCY SENSOR

WIRING SYMBOLS



STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

EXPIRES 12/31/2026

STATE OF MISSOURI
JULIAN MEMESES NUMBER E-2002147815
REGISTERED PROFESSIONAL ENGINEER

SIGNED 10/31/2025

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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF SOCIAL SERVICES
Division of Youth Services

RENOVATIONS TO INTERIOR CORE BUILDING

HILLSBORO TREATMENT CENTER
HILLSBORO, MISSOURI

PROJECT # H2503-01
SITE # 7710
FACILITY # 88777-10003

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 10/31/2025

CAD DWG FILE:
DRAWN BY: ASF
CHECKED BY: JUM
DESIGNED BY: JUM

SHEET TITLE:
ELECTRICAL LEGEND

SHEET NUMBER:
E-001

12 OF 20 SHEETS
10/31/2025

GENERAL:

1. ELECTRICAL COMPONENTS SHALL BE ASSIGNED THE SAME SEISMIC DESIGN CATEGORY AS THE STRUCTURE THAT THEY OCCUPY OR TO WHICH THEY ARE ATTACHED. ELECTRICAL COMPONENT SUPPORTS FOR EQUIPMENT SUCH PANELBOARDS, RACEWAY SYSTEMS, ETC SHALL BE ANCHORED (SECURED) TO WITHSTAND THE SEISMIC FORCES PRESCRIBED IN IBC AND ASCE AND IN PARTICULAR ASCE 7-13,6.5.5-ADDITIONAL REQUIREMENTS. THE CONTRACTOR SHALL SUPPLY THE INTENDED ANCHORING AND SUPPORT DETAILS FOR THE SECUREMENT OF ELECTRICAL COMPONENTS TO THE STRUCTURE INCLUDING THE RACEWAY SYSTEMS. THE DETAILS SHALL BE DEVELOPED AND APPROVED BY A REGISTERED ENGINEER IN THE STATE OF MISSOURI FOR EXAMINATION BY THE ENGINEER-OF-RECORD AS PART OF THE SHOP DRAWING REVIEW PROCESS. INCLUDE ALL ASSUMPTIONS AND APPLICABLE SEISMIC FACTORS AS PART OF THE SUBMITTAL INFORMATION TO AID IN THE EXAMINATION OF THE PROPOSED INSTALLATION.

2. THE CONTRACTOR SHALL MAINTAIN A SET OF RECORD DRAWINGS AT THE JOB SITE AND MARK THEREON ANY CHANGES AS THE WORK PROCEEDS. THE RECORD DRAWINGS MUST BE PROVIDED TO THE OWNER PRIOR TO FINAL INSPECTION AND ACCEPTANCE.

3. THE CONTRACTOR SHALL TRACE ALL EXISTING BRANCH CIRCUITS SCHEDULED/INTENDED FOR CONNECTION OF NEW LUMINAIRES, AND THEIR CONTROL EQUIPMENT (ie: OCCUPANCY SENSORS), BACK TO SOURCE PANELBOARD AND MARK THE PANELBOARD DIRECTORY ACCORDINGLY. THE CONTRACTOR SHALL VERIFY SUCH AN EXISTING BRANCH CIRCUIT, OR PORTION THEREOF, HAS THE NECESSARY VOLTAGE RATINGS FOR CONNECTION OF NEW (REPLACEMENT) LUMINAIRES AND THEIR CONTROLS.

4. PROVIDE THE NECESSARY TEMPORARY LIGHTING AND POWER FOR CONSTRUCTION TASKS AS REQUIRED BY OSHA AND OTHER APPLICABLE AGENCIES/STANDARDS.

5. THE BASE BID SHALL INCLUDE THE FOLLOWING:
   - 5.1. REPLACEMENT OF DAMAGE LIGHTING CONTROL OUTLET BOX OR RECEPTACLE OUTLET BOX OR INTERMEDIATE BRANCH CIRCUIT JUNCTION BOX; REFER SPECIFICATION SECTION 01 22 00 "UNIT PRICES", UNIT PRICE #2 FOR ADDITIONAL INFORMATION.
   - 5.2. REPLACEMENT OF DAMAGED BRANCH CIRCUITING; REFER SPECIFICATION SECTION 01 22 00 "UNIT PRICES", UNIT PRICE #3 FOR ADDITIONAL INFORMATION.
   - 5.3. REPLACEMENT OF DAMAGED FIRE ALARM CIRCUITS; REFER SPECIFICATION SECTION 01 22 00 "UNIT PRICES", UNIT PRICE #4 FOR ADDITIONAL INFORMATION.
   - 5.4. REPLACEMENT OF DAMAGED FIRE ALARM JUNCTION BOXES CONTAINING NAC OR SLC CIRCUIT; REFER SPECIFICATION SECTION 01 22 00 "UNIT PRICES", UNIT PRICE #5 FOR ADDITIONAL INFORMATION.
   - 5.5. INSTALLATION OF FIRE ALARM STROBE LIGHTS AND ASSOCIATED NAC CIRCUIT; REFER SPECIFICATION SECTION 01 22 00 "UNIT PRICES", UNIT PRICE #6 FOR ADDITIONAL INFORMATION.
   - 5.6. INSTALLATION OF FIRE ALARM SMOKE DETECTORS AND ASSOCIATED SLC CIRCUIT; REFER SPECIFICATION SECTION 01 22 00 "UNIT PRICES", UNIT PRICE #7 FOR ADDITIONAL INFORMATION.
   - 5.7. REMOVAL OF UNFORESEEN / UNOBSERVED EXISTING VOICE, DATA, VOICE/DATA, OR CATV (CABLE TV) OUTLETS; REFER SPECIFICATION SECTION 01 22 00 "UNIT PRICES", UNIT PRICE #8 FOR ADDITIONAL INFORMATION.

SELECTIVE DEMOLITION:

1. ACCESS TO FIRE ALARM PULL STATION DEVICES SHALL BE MAINTAINED AT ALL TIMES.

2. INACTIVE CIRCUITS (DISCONNECTED WIRING) SHALL BE REMOVED ENTIRELY UNLESS OTHERWISE NOTED. REMAINING EMPTY CONDUITS AND THEIR HANGERS OR SUPPORTS SHALL BE REMOVED AS MUCH AS PRACTICABLE. PORTIONS OF RACEWAYS WHICH ARE TO BE REMOVED TO AN ACTIVE POINT SHALL BE CAPPED, PLUGGED OR SEALED AT THAT POINT. ACTIVE CIRCUITS AT THAT POINT SHALL REMAIN OPERATIONAL.

3. THE CONTRACTOR SHALL MAKE PROVISIONS TO TEMPORARILY AND/OR PERMANENTLY SUPPORT ANY EXISTING CABLING WHICH MAY BE ENCOUNTERED AS BEING SUPPORTED BY A DROPPED CEILING OR CEILING SUPPORT SYSTEM WHEN ANY PORTION OF SUCH CEILING OR SYSTEM IS BEING TEMPORARILY OR PERMANENTLY REMOVED.

4. DAMAGE TO EXISTING LOW VOLTAGE SYSTEM CABLING AS A RESULT OF WORK ON THIS PROJECT SHALL BE REPAIRED AND COMMISSIONED BY A CERTIFIED AND ACCREDITED LOW VOLTAGE SYSTEMS TECHNICIAN AS PART OF THIS PROJECT AT NO ADDITIONAL COST TO OWNER.

5. EXTEND AND/OR REPLACE WIRING AS REQUIRED TO PROPERLY SERVE EQUIPMENT WHICH HAS BEEN RELOCATED AND/OR REQUIRED TO REMAIN IN SERVICE.

6. MAINTAIN SERVICE TO ALL EXISTING CIRCUITS AND DEVICES THAT ARE NOT SCHEDULED TO BE RELOCATED OR REMOVED.

7. THE WORK ASSOCIATED WITH THE INSTALLATION OF ANY NEW POWER WIRING DEVICES (IE: RECEPTACLES) OR LOW VOLTAGE DEVICE (IE: VOICE/DATA JACKS), INDICATED TO BE INSTALLED IN AN EXISTING BOX, SHALL BE PERFORMED SO THAT THE INSTALLATION APPEARS AESTHETICALLY SEAMLESS. THE CONTRACTOR SHALL ACCOMPLISH THIS BY THE INSTALLATION OF BOX EXTENSION RINGS. OTHER CONSTRUCTION TECHNIQUES OR A FULL REPLACEMENT OF THE EXISTING BOX WITH A NEW ONE AT THAT PARTICULAR LOCATION.

POWER DISTRIBUTION:

1. OVERCURRENT PROTECTION DEVICES, OPERATING VOLTAGES AND WIRE SIZES FOR EQUIPMENT ARE BASED ON EQUIPMENT INFORMATION AVAILABLE AT THE TIME OF ISSUANCE OF THESE DRAWINGS. CONTRACTOR SHALL VERIFY ELECTRICAL REQUIREMENTS OF ALL PROJECT RELEVANT EQUIPMENT PRIOR TO INSTALLING THE CONDUIT AND WIRING INTENDED FOR THE EQUIPMENT. NOTIFY OWNER AND ENGINEER PRIOR TO COMMENCING THE WORK OF ANY CONFLICTING INFORMATION.
2. 120V-20A BRANCH CKTS:
   -MINIMUM #12 AWG FOR PHASE, NEUTRAL AND EQUIPMENT GROUND CONDUCTORS UP TO A MAX 50' RUN, MIN 3/4" C.
   -MINIMUM #10 AWG FOR PHASE, NEUTRAL AND EQUIPMENT GROUND CONDUCTORS UP TO A MAX 75' RUN, MIN 3/4" C.
   -MINIMUM #8 AWG FOR PHASE, NEUTRAL AND EQUIPMENT GROUND CONDUCTORS UP TO A MAX 150' RUN, MIN 3/4" C.
3. 208V-20A 1-PH BRANCH CKTS:
   -MINIMUM #12 AWG FOR PHASE, NEUTRAL AND EQUIPMENT GROUND CONDUCTORS UP TO A MAX 100' RUN, MIN 3/4" C.
   -MINIMUM #10AWG FOR PHASE, NEUTRAL AND EQUIPMENT GROUND CONDUCTORS UP TO A MAX 150' RUN, MIN 3/4" C.
4. 208V-30A 1 PH BRANCH CKTS:
   -MINIMUM #10 AWG FOR PHASE, NEUTRAL AND EQUIPMENT GROUND CONDUCTORS UP TO A MAX 100' RUN, MIN 3/4" C.
   -MINIMUM #8 AWG FOR PHASE, NEUTRAL AND EQUIPMENT GROUND CONDUCTORS UP TO A MAX 150', MIN 3/4" C.

INTERIOR LIGHTING:

1. PROVIDE A COMPLETE PHOTOMETRIC MAP OF ALL NEW INDOOR LUMINAIRE UNITS IN FULL BRIGHT MODE AND MAKE DATA PART OF THE LIGHTING FIXTURE EQUIPMENT SUBMITTAL (SHOP DRAWINGS) FOR THE ENGINEER'S REVIEW.

2. PROVIDE A COMPLETE PHOTOMETRIC MAP OF ALL NEW INDOOR **EMERGENCY EGRESS** LUMINAIRE UNITS, **ONLY,** IN FULL BRIGHT MODE INCLUDING ELU (EMERGENCY LIGHTING UNITS) AND MAKE DATA PART OF THE LIGHTING FIXTURE EQUIPMENT SUBMITTAL (SHOP DRAWINGS) FOR THE ENGINEER'S REVIEW. EGRESS LIGHTING FIXTURES SHALL BE FITTED WITH A 90 MINUTE EMERGENCY BATTERY PACK CAPABLE OF PROVIDING A MINIMUM OF 80% LUMEN OUTPUT FOR THE PARTICULAR FIXTURE. ILLUMINANCE LEVELS SHALL MEET NFPA 101 REQUIREMENTS.

3. TOGGLE SWITCHES IN UNFINISHED SPACES AND/OR UTILITY TYPE ROOMS SHALL BE NEMA WD1 (NON-DECORATIVE TYPE) WITH STAINLESS STEEL FINISH PLATES.

4. ALL WALL AND CEILING MOUNTED LIGHTING CONTROL DEVICE EQUIPMENT SHALL BE PACKAGED WITH THE LUMINAIRE EQUIPMENT SUBMITTAL AND SHALL BE FULLY COMPATIBLE WITH THE LUMINAIRES THEY CONTROL. INCLUDING THE "POWER PACK" (LIGHTING RELAY) EQUIPMENT IF APPLICABLE.

5. FINAL LOCATION OF CEILING OR PENDANT MOUNTED OCCUPANCY SENSORS SHALL HAVE UNOBSTRUCTED LINES OF SIGHT; OCCUPANCY SENSOR LAYOUT SHOWN IS DIAGRAMMATIC, PROVIDE QUANTITY OF SENSORS FOR FULL OCCUPANCY SENSING IN THE ROOMS/AREAS SHOWN.

6. ALL OCCUPANCY SENSORS SHALL BE TESTED FOR THE INDICATED FUNCTIONALITY/LIGHTING CONTROL AT THEIR FINAL LOCATIONS, OTHERWISE ADJUST SENSOR'S LOCATION AS NECESSARY OR ADD ADDITIONAL SENSORS.

7. ELU'S SHALL BE MOUNTED TO WALLS, CEILINGS OR SUSPENDED IN HIGH BAY AREAS; CONTRACTOR SHALL COORDINATE ALL FINAL LOCATIONS IN FINISHED AREAS WITH ARCHITECT OR OWNER PRIOR TO ORDERING EQUIPMENT AND COMMENCING THE WORK.

8. LIGHTING FIXTURE SIEISMIC SUPPORT NOTES:
   -LUMINAIRES 10 LBS OR LESS SHALL HAVE ONE 12 GAUGE HANGER WIRE CONNECTED FROM FIXTURE TO STRUCTURE ABOVE; THE WIRES ARE PERMITTED TO BE SLACK.
   -LUMINAIRES BETWEEN 10 LBS AND 56 LBS SHALL HAVE TWO 12 GAUGE HANGER WIRES AT OPPOSING CORNERS OF THE LUMINAIRE TO THE STRUCTURE ABOVE; THE WIRES ARE PERMITTED TO BE SLACK.
   -LUMINAIRES EXCEEDING 56 LBS SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE; WIRE SHALL BE TAUT.
   -PENDANT MOUNTED LUMINAIRES SHALL BE DIRECTLY SUPPORTED FROM THE STRUCTURE ABOVE USING A 9 GAUGE WIRE OR AN APPROVED ALTERNATE SUPPORT WITHOUT USING THE CEILING SUSPENSION SYSTEM FOR DIRECT SUPPORT.
   -TANDEM LUMAINRES MAY UTILIZE COMMON WIRES.

9. FURNISH A REPORT WITH RECORD DOCUMENTATION INDICATING LIGHTING BRANCH CIRCUIT AMPERAGES UNDER LOAD FOR PANELBOARD'S 'A' AND 'B'. IT IS RECOGNIZED/UNDERSTOOD A LIGHTING BRANCH CIRCUIT MAY BE SERVING NON-LIGHTING LOADS AS A RESULT OF AN EXISTING CONDITION OF THE CIRCUITRY.

POWER:

1. COORDINATE THE FINAL LOCATIONS OF WIRING DEVICES OR HARD-WIRED TERMINATIONS, WITH THE ASSOCIATED EQUIPMENT INSTALLER, FOR ITEMS, SUCH AS, BUT NOT LIMITED TO: PADDLE/INDUSTRIAL GRADE FANS, VAV UNITS, UNIT HEATERS, FAN COIL UNITS, WATER HEATERS, TANK-LESS WATER HEATERS, DRINKING FOUNTAIN/WATER BOTTLE FILLING STATIONS, SHOP COMPRESSORS, VENDING MACHINES, ETC. FURNISH (IF NOT SUPPLIED BY EQUIPMENT INSTALLER, VERIFY) THE REQUIRED LOCAL SAFETY DISCONNECT SWITCH; LABEL.

2. INSTALL THE REQUIRED GFCI EQUIPMENT AS REQUIRED IN NEC ARTICLE 422 FOR APPLIANCE TYPE EQUIPMENT, MAKE GFCI EQUIPMENT READILY ACCESSIBLE.

3. COORDINATE THE FINAL LOCATIONS OF WIRING DEVICES AND HARD-WIRED TERMINATIONS, WITH THE ASSOCIATED EQUIPMENT INSTALLER, FOR AUTOMATIC RESTROOM FLUSH AND AUTOMATIC FAUCET VALVES; FURNISH AND INSTALL ALL REQUIRED BRANCH CIRCUIT AND LOW VOLTAGE CONDUCTORS AND (IF NOT SUPPLIED BY EQUIPMENT INSTALLER, VERIFY) THE REQUIRED LOCAL SAFETY DISCONNECT SWITCH(ES); LABEL.

4. BRANCH CIRCUITS IN EXISTING FINISHED SPACES/ROOMS WHERE CIRCUITS MAY NOT BE CONCEALED DUE TO FIELD CONDITIONS SHALL BE IN PAINTED SURFACE METAL RACEWAY; SURFACE RACEWAY COLOR AS APPROVED BY ARCHITECT AND/OR OWNER. BRANCH CIRCUITS IN RENOVATED FINISHED SPACES/ROOMS SHALL BE CONCEALED IN WALLS, CEILINGS OR SOFFITS. BRANCH CIRCUITS IN UNFINISHED LOCATIONS SHALL BE IN EMT WHERE NOT EXPOSED TO IMMINENT MECHANICAL DAMAGE AND RIGID GALVANIZED CONDUIT WHERE EXPOSED TO IMMINENT MECHANICAL DAMAGE.

5. ALL EQUIPMENT CONDUCTOR TERMINATION PROVISIONS SHALL BE UL LISTED FOR 75°C CONDUCTORS UNLESS EQUIPMENT PRECLUDES IT, OTHERWISE ADJUST CONDUCTOR SIZES AS PRESCRIBED IN THE NEC.

6. CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE PRIOR TO DE-ENERGIZING AND ENERGIZING ANY CIRCUIT.

7. ELECTRICAL EQUIPMENT SUCH AS SWITCHBOARDS, PANELBOARDS AND MOTOR CONTROL CENTERS SHALL BE FIELD MARKED TO WARN PERSONNEL OF THE POTENTIAL ELECTRIC FLASH HAZARD, SEE NEC 110.16. IN ADDITION, THE SERVICE EQUIPMENT SHALL BE MARKED WITH THE AVAILABLE FAULT CURRENT LEVEL AS MANDATED BE NEC 110. 24.

8. RECEPTACLE OUTLET INSTALLATION SHALL BE FITTED WITH TAMPER-PROOF SCREWS.

9. GFCI RECEPTACLE OUTLETS SHALL BE INSTALLED FOR DRINKING FOUNTAIN / BOTTLE FILL STATIONS; VENDING MACHINES; BATHROOMS; KITCHENETTES; SINKS.

FIRE ALARM & LOW VOLTAGE SYSTEMS:

1. THE CONTRACTOR SHALL RETAIN THE OWNER'S EXISTING FIRE ALARM SYSTEM MAINTENANCE CONTRACTOR TO THOROUGHLY VERIFY THE FUNCTIONALITY OF THE EXISTING FIRE ALARM SYSTEM EQUIPMENT IN ITS ENTIRETY WITHIN THE FOOTPRINT OF THE CORE BUILDING AND HOUSING UNITS. TEST ALL DEVICES, CABLING AND EQUIPMENT AND PROVIDE A REPORT, PER NFPA 72 REQUIREMENTS, PRIOR TO COMMENCING THE WORK.

2. THE FIRE ALARM SYSTEM IS REPORTED TO BE ACTIVE. COORDINATE THE REQUIRED WORK WITH OWNER-RETAINED FIRE ALARM SYSTEM MAINTENANCE CONTRACTOR; NEW EQUIPMENT AND MATERIALS SHALL BE MANUFACTURED BY SIMPLEX (JOHNSON CONTROLS) AND SHALL BE PROCURED, INSTALLED AND TERMINATED BY THE CONTRACTOR. THE CONTRACTOR SHALL DELIVER A COMPLETE AND OPERATIONAL SYSTEM; ALL THE NECESSARY START-UP, TESTING, COMMISSIONING AND PROGRAMMING OF NEW DEVICES AND (VERIFICATION OF FUNCTIONALITY OF) EXISTING DEVICES HOUSED IN BUILDINGS 'A', 'B' AND CORE BUILDING SHALL BE BY OWNER-RETAINED FIRE ALARM SYSTEM MAINTENANCE CONTRACTOR; THE CONTRACTOR SHALL DEDICATE ITS FORCES TOWARDS THE COMPLETION OF THESE TESTING AND COMMISSIONING ACTIVITIES.

3. WITHIN THE CORE BUILDING LIMITS OF CONSTRUCTION; FIRE ALARM CIRCUITS IN EXISTING FINISHED SPACES/ROOMS WHERE CIRCUITS MAY NOT BE CONCEALED DUE TO FIELD CONDITIONS SHALL BE IN PAINTED SURFACE METAL RACEWAY; SURFACE METAL RACEWAY COLOR AS APPROVED BY ARCHITECT AND/OR OWNER. FIRE ALARM CIRCUITS IN RENOVATED FINISHED SPACES/ROOMS SHALL BE CONCEALED IN WALLS, CEILINGS OR SOFFITS. FIRE ALARM CIRCUITS IN UNFINISHED LOCATIONS SHALL BE IN EMT WHERE NOT EXPOSED TO IMMINENT MECHANICAL DAMAGE AND RIGID GALVANIZED CONDUIT WHERE EXPOSED TO IMMINENT MECHANICAL DAMAGE; FLEXIBLE METALLIC CABLE IS NOT ALLOWED EXCEPT MC CABLE FOR CONNECTIONS TO VIBRATING EQUIPMENT.

4. THE CONTRACTOR SHALL RETAIN A QUALIFIED TECHNICIAN FOR TESTING OF ALL NEW INDICATED DATA DEVICES, CABLING AND PATCH PANEL; PROVIDE REPORTS AS RECOMMENDED BY BICSI (EIA/TIA) PRIOR TO COMMENCING THE WORK.

5. THE CONTRACTOR SHALL RETAIN A QUALIFIED TECHNICIAN FOR TESTING OF ALL SECURITY [CCTV] CAMERAS AND ASSOCIATED CABLING IN WITHIN THE LIMITS OF CONSTRUCTION AREAS; PROVIDE A REPORT PRIOR TO COMMENCING THE WORK.

6. COORDINATE THE REQUIRED WORK WITH OWNER-RETAINED DATA AND SECURITY [CCTV] SYSTEMS CONTRACTORS AND/OR STATE PERSONNEL. NEW DEVICES, CABLING AND TERMINATIONS SHAL BE PROCURED AND INSTALLED BY CONTRACTOR. THE CONTRACTOR SHALL DELIVER A COMPLETE AND OPERATIONAL SYSTEM; ALL THE NECESSARY START-UP, TESTING, COMMISSIONING AND PROGRAMMING OF THESE SYSTEMS IN THE CORE BUILDING'S LIMIT OF CONSTRUCTION SHALL BE BY OWNER-RETAINED AND/OR STATE PERSONNEL; THE CONTRACTOR SHALL DEDICATE ITS FORCES TOWARDS THE COMPLETION OF THESE TESTING AND COMMISSIONING ACTIVITIES. THE CONTRACTOR SHALL PERFORM ALL FINAL HARD-WIRED CONDUCTOR TERMINATIONS INCLUDING THOSE ASSOCIATED WITH BONDING AND GROUNDING.

7. WITHIN THE CORE BUILDING LIMITS OF CONSTRUCTION: DATA AND SECURITY [CCTV] IN EXISTING FINISHED SPACES/ROOMS WHERE CIRCUITS MAY NOT BE CONCEALED DUE TO FIELD CONDITIONS SHALL BE IN PAINTED SURFACE METAL RACEWAY; SURFACE METAL RACEWAY COLOR AS APPROVED BY ARCHITECT AND/OR OWNER. DATA OR SECURITY [CCTV] CIRCUITS IN RENOVATED FINISHED SPACES/ROOMS SHALL BE CONCEALED IN WALLS, CEILINGS OR SOFFITS. DATA OR SECURITY [CCTV] CIRCUITS IN UNFINISHED LOCATIONS SHALL BE IN EMT WHERE NOT EXPOSED TO IMMINENT MECHANICAL DAMAGE AND RIGID GALVANIZED CONDUIT WHERE EXPOSED TO IMMINENT MECHANICAL DAMAGE.

8. WITHIN THE CORE BUILDING LIMITS OF CONSTRUCTION: ACCESS CONTROL (KEY PAD/CARD READER) OUTLET BOXES HAVE BEEN INDICATED FOR INSTALLATION BY CONTRACTOR; OWNER INTENDS TO FIT WITH CABLING IN THE FUTURE, REFER TO POWER AND SYSTEMS DRAWING.

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DESIGN AND CONSTRUCTION

DEPARTMENT OF SOCIAL SERVICES
Division of Youth Services

RENOVATIONS TO INTERIOR CORE BUILDING

HILLSBORO TREATMENT CENTER
HILLSBORO, MISSOURI

PROJECT # H2503-01
SITE # 7710
FACILITY # 88777-10003

REVISION:
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ISSUE DATE: 10/31/2025

CAD DWG FILE:
DRAWN BY: ASF
CHECKED BY: JUM
DESIGNED BY: JUM

SHEET TITLE:
ELECTRICAL GENERAL NOTES

SHEET NUMBER:
E-002

13 OF 20 SHEETS
10/31/2025

KEYED NOTES:

1. ELECTRICAL EQUIPMENT WITHIN THIS AREA SHALL NOT BE DISTURBED UNLESS OTHERWISE NOTED.

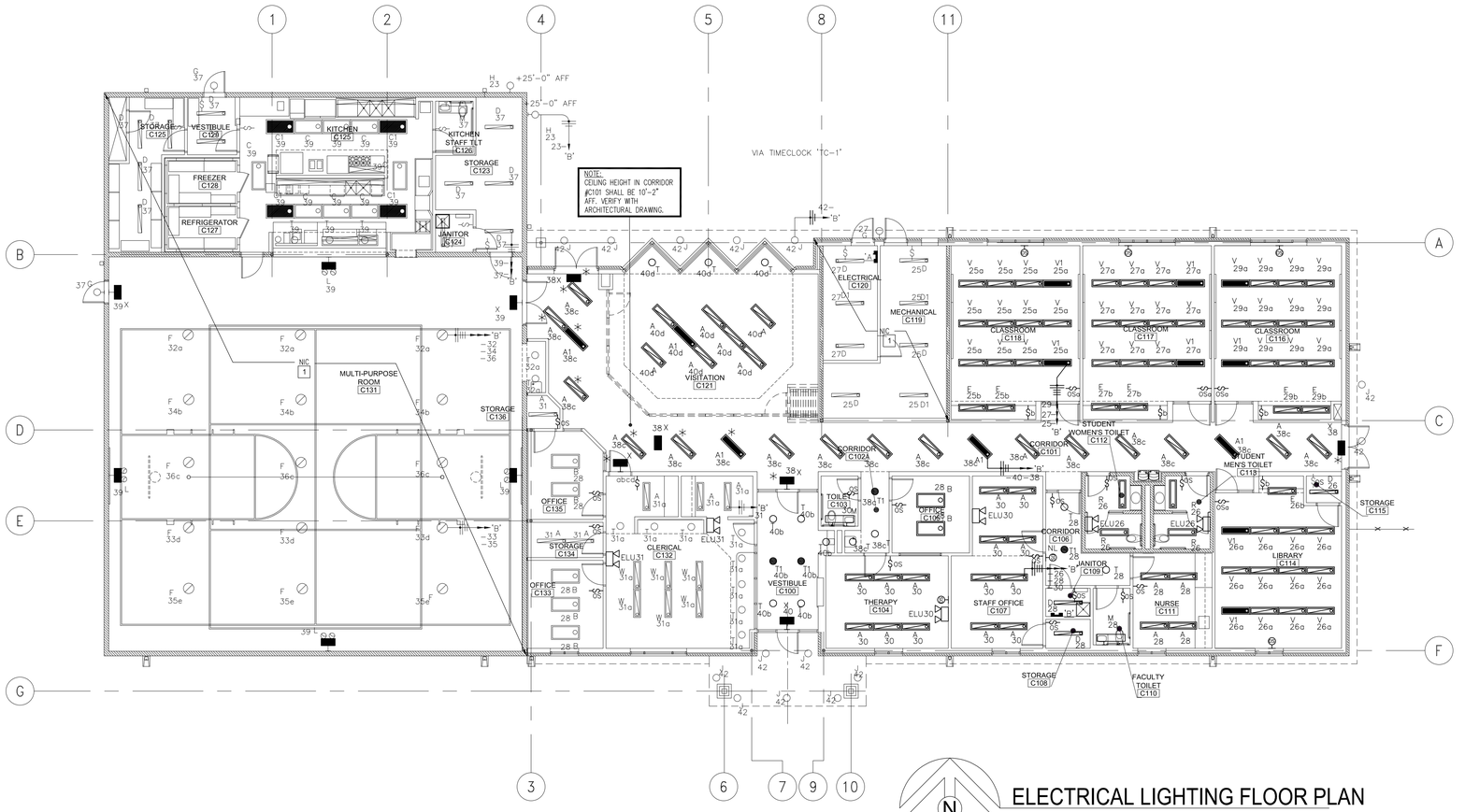
GENERAL NOTES:

1. LIGHTING FIXTURES INDICATED AS NEW SHALL REPLACE EXISTING LIGHTING FIXTURE UNITS IN THE FOLLOWING ROOMS: VISITATION C121; STORAGE C136; OFFICE C135; STORAGE C134; OFFICE C133; CLERICAL C132; CORRIDOR C101 FIXTURES DENOTED WITH ASTERISK [*]. ALL OTHER ROOMS/SPACES WITHIN THE LIMITS OF CONSTRUCTION DO NOT CONTAIN EXISTING LIGHTING FIXTURES. THE CONTRACTOR SHALL CONNECT THESE LIGHTING FIXTURES TO THE EXISTING BRANCH CIRCUIT AND SWITCH LEG CONTROLS; A SENSING CIRCUIT/CONDUCTORS AHEAD OF THE SWITCHING CONTROL SHALL BE PROVIDED FOR THE EGRESS/EMERGENCY LIGHTING FIXTURE UNITS.

2. EXISTING LIGHTING FIXTURES IN ROOMS STORAGE C136; OFFICE C135; STORAGE C134; OFFICE C133; SHALL BE DISCONNECTED, REMOVED, RE-LAMPED, CLEANED, AND RE-MOUNTED; FIXTURE UNIT MOUNTING SHALL MEET THE APPLICABLE SEISMIC REQUIREMENT WHEN RE-INSTALLED. ALL LIGHTING FIXTURES WITHIN CLERICAL C1333 SHALL BE PROTECTED IN PLACE FROM CEILING WORK ACTIVITIES.

3. BRANCH CIRCUIT DESIGNATION AND LOWER CASE CHARACTER INDICATED PER AS-BUILT DOCUMENTATION, VERIFY; CONTRACTOR SHALL RE-WIRE/RE-TERMINATE NEW LIGHTING FIXTURE UNITS AS INDICATED.

4. REFER TO LUMINAIRE CONTROL SCHEDULE DRAWING E-601 AND LIGHTING CONTROL DIAGRAMS, DRAWING E-701 FOR ADDITIONAL INFORMATION.



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HILLSBORO TREATMENT CENTER
HILLSBORO, MISSOURI

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ISSUE DATE: 10/31/2025

CAD DWG FILE:
DRAWN BY: ASF
CHECKED BY: JUM
DESIGNED BY: JUM

SHEET TITLE:
ELECTRICAL LIGHTING FLOOR PLAN

SHEET NUMBER:
E-101

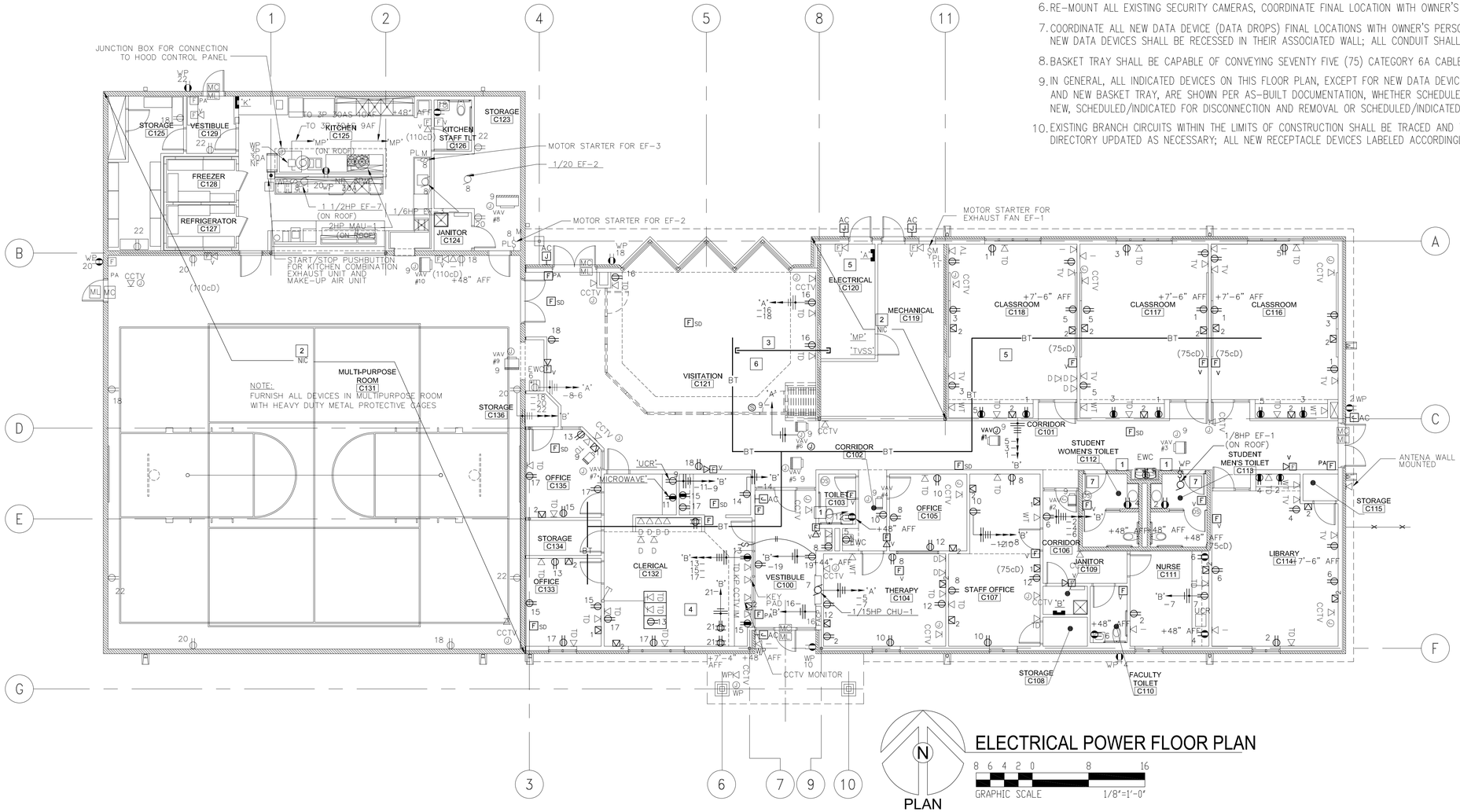
14 OF 20 SHEETS
10/31/2025

KEYED NOTES:

1. INSTALL OCCUPANCY SENSORS IN ALL RESTROOMS SERVED BY THE EXISTING GENERAL RESTROOM EXHAUST FAN AND ACTIVATE THE EXHAUST FAN IF ANY OCCUPANCY SENSOR(S) IS ACTIVATED. THE OCCUPANCY SENSOR(S) SHALL ACTIVATE THE EXHAUST FAN FOR A MINIMUM OF 15 MINUTES (30 MINUTES ADJUSTABLE). VERIFY EXHAUST FAN CONTROLLER 'S COIL VOLTAGE RATING AND PROVIDE LINE VOLTAGE OCCUPANCY SENSORS OR LOW VOLTAGE OCCUPANCY SENSORS (WITH ASSOCIATED POWER PACKS) AS REQUIRED. SUBMIT A CONTROL WIRING DIAGRAM WITH THE LIGHTING SUBMITTAL PACKAGE.
2. ELECTRICAL EQUIPMENT WITHIN THIS AREA SHALL NOT BE DISTURBED UNLESS OTHERWISE NOTED.
3. INSTALL FIVE (5) 3" CONDUITS FOR CATEGORY 6A CABLES EVENLY DISTRIBUTED; VERIFY CONDUIT FILL IS ACCEPTABLE PRIOR TO INSTALLATION. CONDUITS SHALL TRAVERSE FROM ELECTRICAL ROOM TO BASKET TRAY.
4. PROVIDE A MOMENTARY PUSH BUTTON FOR PURPOSE OF CONTROLLING EXISTING DOOR STRIKE AT VESTIBULE/CORRIDOR DOOR; EXISTING WIRING IS CONTAINED IN EXISTING JUNCTION BOX ALONG WEST WALL OF ROOM. REFER TO DRAWING E-702 AND E-703 FOR ADDITIONAL INFORMATION.
5. LOCATION OF NEW PATCH PANEL AND SUPPORTING WALL MOUNTED RACK.
6. REMOUNT HDMI OUTLET BOX AND FACEPLATE TO WALL. EXTEND SPEAKER WIRING AND CONNECT TO WALL MOUNTED SPEAKER, CONCEAL WIRING. LEAVE AUXILIARY WIRES AND CONNECTORS IN PLACE. REFER TO DRAWING E-703 FOR IMAGE DETAILS.
7. RELOCATE FIRE ALARM STROBE LIGHT TO WALL ACROSS FROM SINK DUE TO PARTIAL REMOVAL OF BLOCK WING WALL.

GENERAL NOTES:

1. REMOVE ALL ASSOCIATED CABLING FOR EXISTING VOICE AND DATA DEVICES BACK TO HEAD-END EQUIPMENT LOCATED IN THE MAIN ELECTRICAL ROOM, INCLUDING ANY INTERMEDIATE EQUIPMENT, VERIFY; REMOVE ALL ASSOCIATED CABLING SUPPORTS. VERIFY AND COORDINATE WITH OWNER'S PERSONNEL PRIOR TO FINAL DISCONNECTION OF CABLES AT HEAD-END EQUIPMENT, VERIFY CABLE CONNECTIONS/TERMINATION METHODS AND LOCATION AT HEAD-END EQUIPMENT. REMOVE ALL ASSOCIATED OUTLET BOXES AND CONDUIT; STUBBED UP CONDUIT SHALL BE CUT AND MADE FLUSH WITH SLAB(S), OTHERWISE REMOVE ALL EMPTY CONDUIT.
2. REMOVE ALL ASSOCIATED CABLING FOR EXISTING COAXIAL DEVICES BACK TO HEAD-END EQUIPMENT LOCATED IN THE MAIN ELECTRICAL ROOM, INCLUDING ANY INTERMEDIATE EQUIPMENT, VERIFY; REMOVE ALL ASSOCIATED CABLING SUPPORTS. VERIFY AND COORDINATE WITH OWNER'S PERSONNEL PRIOR TO FINAL DISCONNECTION OF CABLES AT HEAD-END EQUIPMENT, VERIFY CABLE CONNECTIONS/TERMINATION METHODS AND LOCATION AT HEAD-END EQUIPMENT. REMOVE ALL ASSOCIATED OUTLET BOXES AND CONDUIT; STUBBED UP CONDUIT SHALL BE CUT AND MADE FLUSH WITH SLAB(S), OTHERWISE REMOVE ALL EMPTY CONDUIT.
3. REMOVE ALL ASSOCIATED CABLING FOR EXISTING INTERCOM DEVICES, BOXES AND EQUIPMENT BACK TO HEAD-END EQUIPMENT LOCATED IN THE CLERICAL OFFICE, INCLUDING ANY INTERMEDIATE EQUIPMENT AND HEAD-END EQUIPMENT, VERIFY; REMOVE ALL ASSOCIATED CABLING SUPPORTS. VERIFY AND COORDINATE WITH OWNER'S PERSONNEL PRIOR TO FINAL DISCONNECTION OF CABLES AT HEAD-END EQUIPMENT, VERIFY CABLE CONNECTIONS/TERMINATION METHODS AND LOCATION AT HEAD-END EQUIPMENT. REMOVE ALL ASSOCIATED OUTLET BOXES AND CONDUIT; STUBBED UP CONDUIT SHALL BE CUT AND MADE FLUSH WITH SLAB(S), OTHERWISE REMOVE ALL EMPTY CONDUIT.
4. REPLACE EXISTING RECEPTACLE OUTLETS (DEVICES) EAST OF COLUMN LINE 4 WITH NEW DEVICES AS INDICATED.
5. REPLACE EXISTING FIRE ALARM DEVICES, INCLUDING PULL STATIONS, STROBES (VISUAL DEVICES), SMOKE DETECTORS EAST OF COLUMN LINE 4 AS INDICATED; CONTRACTOR SHALL UTILIZE DEVICES AND ASSOCIATED RATINGS MEETING THE REQUIREMENTS OF THE IBC, FIRE CODE AND NFPA 72 AS A MINIMUM.
6. RE-MOUNT ALL EXISTING SECURITY CAMERAS, COORDINATE FINAL LOCATION WITH OWNER'S PERSONNEL.
7. COORDINATE ALL NEW DATA DEVICE (DATA DROPS) FINAL LOCATIONS WITH OWNER'S PERSONNEL. ALL OUTLET BOXES ASSOCIATED WITH THE NEW DATA DEVICES SHALL BE RECESSED IN THEIR ASSOCIATED WALL; ALL CONDUIT SHALL BE CONCEALED.
8. BASKET TRAY SHALL BE CAPABLE OF CONVEYING SEVENTY FIVE (75) CATEGORY 6A CABLES AS A MINIMUM.
9. IN GENERAL, ALL INDICATED DEVICES ON THIS FLOOR PLAN, EXCEPT FOR NEW DATA DEVICES, NEW OUTLET BOXES FOR ACCESS CONTROL AND NEW BASKET TRAY, ARE SHOWN PER AS-BUILT DOCUMENTATION, WHETHER SCHEDULED/ INDICATED FOR REPLACEMENT IN PLACE AS NEW, SCHEDULED/INDICATED FOR DISCONNECTION AND REMOVAL OR SCHEDULED/INDICATED TO REMAIN IN PLACE.
10. EXISTING BRANCH CIRCUITS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE TRACED AND THE ASSOCIATED PANELBOARD SCHEDULE DIRECTORY UPDATED AS NECESSARY; ALL NEW RECEPTACLE DEVICES LABELED ACCORDINGLY.



STATE OF MISSOURI
MIKE KEHOE,
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EXPIRES 12/31/2026

STATE OF MISSOURI
JULIAN MEMESES
NUMBER E-2002147815
REGISTERED PROFESSIONAL ENGINEER

SIGNED 10/31/2025

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OFFICE OF ADMINISTRATION
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DEPARTMENT OF SOCIAL SERVICES
Division of Youth Services

RENOVATIONS TO INTERIOR CORE BUILDING

HILLSBORO TREATMENT CENTER
HILLSBORO, MISSOURI

PROJECT # H2503-01
SITE # 7710
FACILITY # 88777-10003

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 10/31/2025

CAD DWG FILE:
DRAWN BY: ASF
CHECKED BY: JUM
DESIGNED BY: JUM

SHEET TITLE:
ELECTRICAL POWER & SYSTEMS FLOOR PLAN

SHEET NUMBER:
E-111

15 OF 20 SHEETS
10/31/2025

LIGHTING FIXTURE SCHEDULE

TYPE	FIXTURE DESCRIPTION	MANUFACTURER / MODEL NUMBER	MOUNTING	LAMPS	VOLTAGE	VA	SPECIAL COMMENTS
A	LED LINEAR WRAP CEILING MOUNTED	WILLIAMS #39W 4FT METALUX DAYBRITE LITHONIA	SURFACE	LED 80 CRI 4000K 5200 LUMENS	UNV	40VA	0-10V DRIVER
A1	LED LINEAR WRAP CEILING MOUNTED W/INTEGRAL EMERGENCY BATTERY PACK	WILLIAMS #39W 4FT METALUX DAYBRITE LITHONIA	SURFACE	LED 80 CRI 4000K 5200 LUMENS	UNV	40VA	0-10V DRIVER
B	RECESSED TROFFER	METALUX 24 MMS L3C3 WILLIAMS DAYBRITE LITHONIA	RECESSED	LED 90 CRI 4000K 4963 LUMENS	UNV	40VA	0-10V DRIVER
E	LED UNDER CABINET LIGHT	WILLIAMS 1SF 4 L24 8 40 DMA GCO AMW DIM UNV METALUX DAYBRITE JUNO	SURFACE	LED 80 CRI 4000K 2400 LUMENS	UNV	25VA	0-10V DRIVER
M	LED WALL BRACKET	METALUX 4BCLED LD4 32SL F UNV CD METALUX DAYBRITE LITHONIA	WALL/SURFACE	LED 80 CRI 4000K 3200 LUMENS	UNV	30VA	0-10V DRIVER; DAMP LOCATION RATED
R	LED LINEAR WRAP CEILING MOUNTED	WILLIAMS #39W 4FT METALUX DAYBRITE LITHONIA	SURFACE	LED 80 CRI 4000K 5200 LUMENS	UNV	40VA	0-10V DRIVER DAMP LOCATION RATED
T	LED RECESSED SQUARE DOWNLIGHT	METALUX 11 MMS L3C5 WILLIAMS DAYBRITE LITHONIA	RECESSED	LED 90 CRI 4000K 1630 LUMENS	UNV	18VA	0-10V DRIVER
T1	LED RECESSED SQUARE DOWNLIGHT W/INTEGRAL BATTERY PACK	METALUX 11 MMS L3C5 WILLIAMS DAYBRITE LITHONIA	RECESSED	LED 90 CRI 4000K 1630 LUMENS	UNV	18VA	0-10V DRIVER
V	LED WRAPAROUND CEILING MOUNTED	METALUX #4NWS3C3 4FT WILLIAMS DAYBRITE LITHONIA	SURFACE	LED 82 CRI 4000K 4498 LUMENS	UNV	35VA	0-10V DRIVER
V1	LED WRAPAROUND W/INTEGRAL EMERGENCY BATTERY PACK	METALUX #4NWS3C3 4FT WILLIAMS DAYBRITE LITHONIA	SURFACE	LED 82 CRI 4000K 4498 LUMENS	UNV	35VA	0-10V DRIVER
X	LED EXIT LIGHT	SURE LITES LPS SERIES WILLIAMS CHLORIDE LITHONIA	SURFACE/CEILING	LED	UNV	NEGLIGIBLE	
ELU1	EMERGENCY LIGHTING UNIT	SURE LITES APEL SERIES WILLIAMS LITHONIA	WALL	LED	UNV	NEGLIGIBLE	

GENERAL NOTES:

1. LISTED LUMENS ARE MANUFACTURER'S LISTED NOMINAL LUMENS AND MAY NOT BE ACTUAL LUMENS PRODUCED UNDER ACTUAL OPERATING CONDITIONS FOR THE SPECIFIED CCT AND CRI.
2. SYSTEM VOLT-AMPS: TOTAL INPUT POWER OF LUMINAIRE IN VOLT-AMPS FOR LIGHTING BRANCH CIRCUIT BASIS OF DESIGN.
3. VERIFY COMPATIBILITY OF LUMINARIES WITH ADJACENT CONSTRUCTION AND MATERIALS PRIOR TO SHOP DRAWING SUBMITTAL AND NOTIFY ENGINEER OF ANY CONFLICTS WITH THE PROPOSED INSTALLATION.
4. PROVIDE ALL MISCELLANEOUS HARDWARE NECESSARY TO INSTALL, SECURE, AND SUPPORT LUMINARIES.
5. UNIVERSAL EXIT SIGNS TO HAVE ALL PARTS AND ACCESSORIES NECESSARY TO ALLOW CONFIGURATION IN THE FIELD FOR SINGLE OR DUAL-FACE, DIRECTIONAL ARROWS OR CHEVRONS, AND EDGE MOUNTING TO CEILING OR WALL, OR SURFACE MOUNTING TO WALLS. REFER TO LIGHTING PLANS TO DETERMINE SINGLE OR DUAL FACE AND MOUNTING STYLE.
6. MULTIPLE MANUFACTURER'S ARE NAMED FOR EACH LUMINAIRE TYPE WHERE APPROPRIATE. WHEN ONLY ONE MANUFACTURE'S NAME IS LISTED, THE PRODUCT'S DESIGN ENGINEERING, PHOTOMETRIC PERFORMANCE, ARCHITECTURAL AESTHETICS, OR ENGINEER'S PAST POSITIVE AND NEGATIVE EXPERIENCES WILL NOT ALLOW SUBSTITUTIONS.
7. PROVIDE FULL BRIGHT PHOTOMETRIC CALCULATIONS WITH EQUIPMENT SUBMITTALS.
8. PROVIDE EGRESS ONLY PHOTOMETRIC CALCULATIONS WITH EQUIPMENT SUBMITTALS.
9. ALL LIGHTING FIXTURES SHALL BE INDIVIDUALLY FITTED WITH TUNABLE LUMEN OUTPUT AND CCT FIELD SELECTABLE SETTINGS; LUMEN OUTPUT SHALL BE FIELD ADJUSTABLE FROM 25%–100% OF NOMINAL VALUE.
10. ALL LIGHTING FIXTURES SHALL HAVE INDIVIDUAL LED DRIVERS.
11. FOR METALUX, WILLIAMS AND SURE LITE PRODUCTS CONTACT: LIGHTING ASSOCIATES AT (314) 531 - 3500
12. FOR LITHONIA AND JUNO PRODUCTS CONTACT: ST. LOUIS LIGHTING GROUP AT (314) 292 - 8971
13. FOR DAYBRITE AND CHLORIDE PRODUCTS CONTACT: MEGLIO AND ASSOCIATES AT (314) 524 - 4424

LUMINAIRE CONTROL SCHEDULE

ROOM #	ROOM DESIGNATION	LIGHTING CONTROL TYPE DESCRIPTION	LIGHTING CONTROL ZONE DESIGNATION	LIGHTING CONTROL DIAGRAM	REMARKS
C100	VESTIBULE	EXISTING TOGGLE CONTROL	---	1	-----
C101	CORRIDOR	EXISTING TOGGLE CONTROL	---	1	-----
C102	CORRIDOR	EXISTING TOGGLE CONTROL	---	1	-----
C103	TOILET	OCCUPANCNY SENSOR	---	2	-----
C104	THERAPY	OCCUPANCY SENSOR CONTROL	---	3	-----
C105	OFFICE	OCCUPANCY SENSOR CONTROL	---	3	-----
C106	CORRIDOR	OCCUPANCY SENSOR CONTROL	---	2	-----
C107	STAFF OFFICE	OCCUPANCY SENSOR CONTROL	---	4	-----
C108	STORAGE	OCCUPANCY SENSOR CONTROL	---	2	-----
C109	JANITOR	OCCUPANCY SENSOR CONTROL	---	2	-----
C110	TOILET	OCCUPANCY SENSOR CONTROL	---	2	-----
C111	NURSE OFFICE	OCCUPANCY SENSOR CONTROL	---	3	-----
C112	TOILET	OCCUPANCY SENSOR CONTROL	---	2	-----
C113	TOILET	OCCUPANCY SENSOR CONTROL	---	2	-----
C114	LIBRARY	OCCUPANCY SENSOR CONTROL	---	5	-----
C115	STORAGE	OCCUPANCY SENSOR CONTROL	---	2	-----
C116	CLASSROOM	OCCUPANCY SENSOR CONTROL	---	5	-----
C117	CLASSROOM	OCCUPANCY SENSOR CONTROL	---	5	-----
C118	CLASSROOM	OCCUPANCY SENSOR CONTROL	---	5	-----
C121	VISITATION	EXISTING TOGGLE CONTROL	---	1	-----
C132	CLERICAL	EXISTING TOGGLE CONTROL	---	1	-----
C133	OFFICE	OCCUPANCY SENSOR CONTROL	---	2	-----
C134	STORAGE	OCCUPANCY SENSOR CONTROL	---	2	-----
C135	OFFICE	OCCUPANCY SENSOR CONTROL	---	2	-----
C136	STORAGE	OCCUPANCY SENSOR CONTROL	---	2	-----

GENERAL NOTES:

1. REFER TO DETAILS SHEET FOR FURTHER DETAIL CONNECTION INFORMATION.

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DRAWN BY: ASF
CHECKED BY: JUM
DESIGNED BY: JUM

SHEET TITLE:
ELECTRICAL SCHEDULES

SHEET NUMBER:
E-601

16 OF 20 SHEETS
10/31/2025

PANEL A

MOUNTING SURFACE | 208 /120 VOLTS 3 PHASE | 4 WIRE | MAIN | 10,000 A.I.C. | BUS 100A SYM

VOLT AMPS Ø A	VOLT AMPS Ø B	VOLT AMPS Ø C	DESCRIPTION	REC	LTG	POLE	BKR	CIR	PH	CIR	BKR	POLE	LTG	REC	DESCRIPTION	VOLT AMPS Ø A	VOLT AMPS Ø B	VOLT AMPS Ø C
			METAL DET.			1	20	1	A	2	20	1			BOOSTER HEATER			
			CCTV MONITORS			1	20	3	B	4	20	1			MIGHTY MAX			
			CP90 SECURITY PANEL			1	20	5	C	6	20	1			FIRE ALARM PANEL			
			ENTRANCE HEATER			1	20	7	A	8	20	1			GENERATOR BATTERY CHARGER			
			VAV BOXS			1	20	9	B	10	20	1			FLAG & SIGN LIGHTS			
			LOT LIGHTS			1	20	11	C	12	20	1			RECEPTACLE ELECTRIC ROOM			
			LOT LIGHTS			1	20	13	A	14	20	1			RECEPTACLE ELECTRIC ROOM			
			LOT LIGHTS			1	20	15	B	16	20	1			RECEPTACLE ELECTRIC ROOM			
			LOT LIGHTS			1	20	17	C	18	20	1			MONITORS RECEPTACLE ELECTRIC ROOM			
			CIRCULATING PUMP			1	20	19	A	20	20	1			RECEPTACLE ELECTRIC ROOM			
			AC SPLIT SYSTEM			1	20	21	B	22	20	1			RECEPTACLE PHONE BOARD			
			ROOF OUTLETS LIGHT			1	20	23	C	24	20	1			SPARE PLUR ONBOY			
			MECHANICAL ROOM LIGHTS			1	20	25	A	26	20	1			VAV CONTROLLER			
			ELECTRICAL ROOM LIGHTS			1	20	27	B	28	20	1						
						1	20	29	C	30	20	1						
						1	20	31	A	32	20	1						
						1	20	33	B	34	20	1						
						1	20	35	C	36	20	1						
						1	20	37	A	38	20	1						
						1	20	39	B	40	20	1						
						1	20	41	C	42	20	1						
			VA/LINE															

Ø A= Ø B= Ø C=

CONTINUOUS LOADS	NON-CONTINUOUS LOADS	
X1.25=	RECEPTACLES UP TO 10 KVA X1.00= / REMAINDER X0.50=	OTHER X1.00

TOTAL DESIGN KVA = TOTAL DESIGN AMPS =

PANEL B

MOUNTING SURFACE | 208 /120 VOLTS 3 PHASE | 4 WIRE | MAIN | 10,000 A.I.C. | BUS 400A SYM

VOLT AMPS Ø A	VOLT AMPS Ø B	VOLT AMPS Ø C	DESCRIPTION	REC	LTG	POLE	BKR	CIR	PH	CIR	BKR	POLE	LTG	REC	DESCRIPTION	VOLT AMPS Ø A	VOLT AMPS Ø B	VOLT AMPS Ø C
			CLASSROOM RECEPT			1	20	1	A	2	20	1			REC.LIBRARY & C111,C112,C113			
			CLASSROOM RECEPTACLE			1	20	3	B	4	20	1			RECEPTACLE C111,C114			
			CLASSROOM RECEPTACLE			1	20	5	C	6	20	1			RECEPTACLE C110,C111,C114			
			RECEPTACLE ROOM C111			1	20	7	A	8	20	1			RECEPTACLE C104,C105,C107			
			RECEPTACLE ROOM C111			1	20	9	B	10	20	1			RECEPTACLE C104,C105,C107			
			RECEPTACLE MICROWAVE			1	20	11	C	12	20	1			RECEPTACLE C103,C104,C105,C107			
			RECEPTACLE C132,C133,C135			1	20	13	A	14	20	1			RECEPTACLE C132			
			RECEPTACLE C132, CLERICAL OFFICE			1	20	15	B	16	20	1			FIRE ALARM PANEL			
			RECEPTACLE C132,C133,C135			1	20	17	C	18	20	1			GYM RECEPTACLE			
			SCORE BOARD			1	20	19	A	20	20	1			GYM RECEPTACLE AND OUTSIDE			
			COPY MACHINE			1	20	21	B	22	20	1			GYM RECEPTACLE			
			SECURITY TV MON			1	20	23	C	24	20	1			SPARE			
			LIGHTS C118			1	20	25	A	26	20	1			LIGHTS C112,C113,C114			
			LIGHTS C117			1	20	27	B	28	20	1			LIGHTS C105,C109,C110,C111			
			LIGHTS C116			1	20	29	C	30	20	1			LIGHTS C104,C107			
			LIGHTS C132,C133,C135			1	20	31	A	32	20	1			GYM LIGHTS			
			EMPTY			1	20	33	B	34	20	1			GYM LIGHTS			
			-----			1	20	35	C	36	20	1			GYM LIGHTS			
			LIGHTS C123,C126,C129,C130			1	20	37	A	38	20	1			CORRIDOR LIGHTS			
			LIGHTS KITCHEN			1	20	39	B	40	20	1			VESTIBULE & VISITATION LIGHTS			
			PHOTOCELL			1	20	41	C	42	20	1			OUTSIDE BUILDING LIGHTS			
			VA/LINE															

Ø A= Ø B= Ø C=

CONTINUOUS LOADS	NON-CONTINUOUS LOADS	
X1.25=	RECEPTACLES UP TO 10 KVA X1.00= / REMAINDER X0.50=	OTHER X1.00

TOTAL DESIGN KVA = TOTAL DESIGN AMPS =

GENERAL NOTES:

1. PANELBOARD SCHEDULES SHOWN HERE FOR REFERENCE. PANELBOARD SCHEDULES ARE EXISTING AND HAVE BEEN SHOWN AS IN AS-BUILT DOCUMENTATION FORMAT. DIRECTORY HAS BEEN UPDATED PER FIELD OBSERVATIONS.

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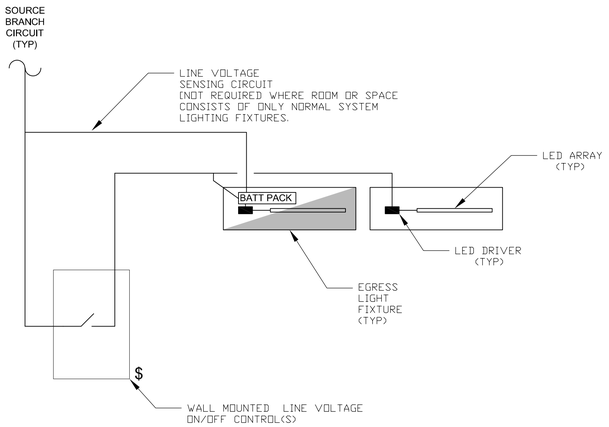
CAD DWG FILE:
DRAWN BY: ASF
CHECKED BY: JUM
DESIGNED BY: JUM

SHEET TITLE:
ELECTRICAL SCHEDULES

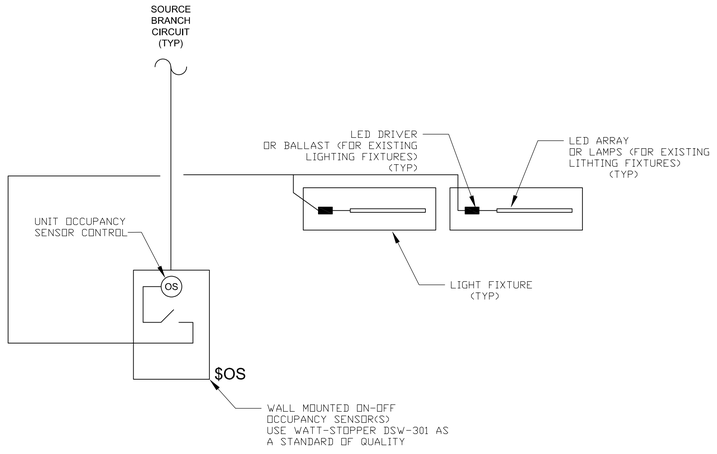
SHEET NUMBER:
E-602

17 OF 20 SHEETS
10/31/2025



INTENDED OPERATION - LIGHTING CONTROL DIAGRAM IS INTENDED FOR APPLICATION IN ROOMS REQUIRING A WALL-MOUNTED ON-OFF POINT(S) OF CONTROL (@LINE VOLTAGE), OF NORMAL SYSTEM OR NORMAL SYSTEM AND EGRESS TYPE LIGHTING FIXTURE(S).

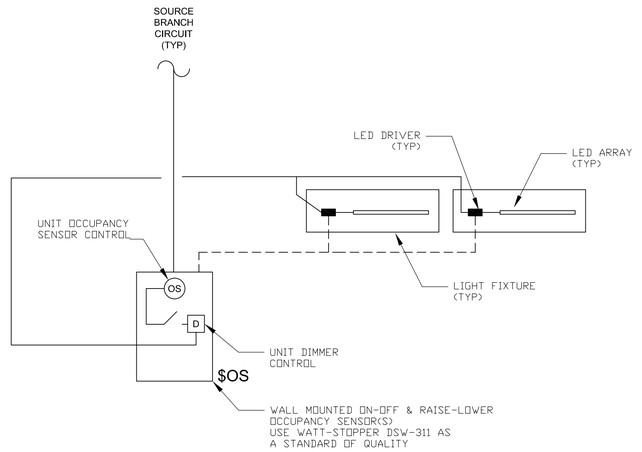
LIGHTING CONTROL DIAGRAM TYPE 1 — 1 / -
NTS



INTENDED OPERATION - LIGHTING CONTROL DIAGRAM IS INTENDED FOR APPLICATION IN ROOMS REQUIRING A WALL-MOUNTED ON-OFF POINT(S) OF CONTROL (@LINE VOLTAGE) FOR NORMAL SYSTEM LIGHTING FIXTURES.

CONTROL WIRING/CONDUCTORS OTHERWISE LINE VOLTAGE (TYP)

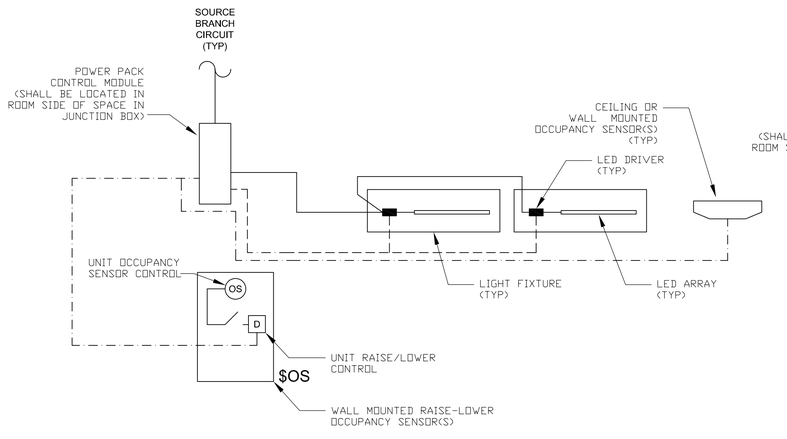
LIGHTING CONTROL DIAGRAM TYPE 2 — 2
NTS



INTENDED OPERATION - LIGHTING CONTROL DIAGRAM IS INTENDED FOR APPLICATION IN ROOMS REQUIRING A WALL-MOUNTED ON-OFF/RAISE-LOWER POINT(S) OF CONTROL (@LOW VOLTAGE) FOR NORMAL SYSTEM LIGHTING FIXTURES.

CONTROL WIRING/CONDUCTORS OTHERWISE LINE VOLTAGE (TYP)

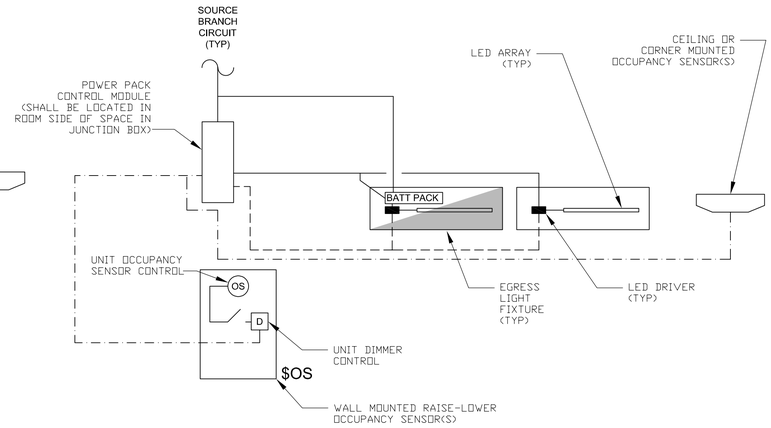
LIGHTING CONTROL DIAGRAM TYPE 3 — 3 / -
NTS



INTENDED OPERATION - LIGHTING CONTROL DIAGRAM IS INTENDED FOR APPLICATION IN ROOMS REQUIRING WALL-MOUNTED ON-OFF/RAISE-LOWER AND CEILING AND/OR WALL MOUNTED POINT(S) OF CONTROL (@LOW VOLTAGE) FOR NORMAL SYSTEM LIGHTING FIXTURE(S).

CONTROL WIRING/CONDUCTORS (TYP)

LIGHTING CONTROL DIAGRAM TYPE 4 — 4 / -
NTS



INTENDED OPERATION - LIGHTING CONTROL DIAGRAM IS INTENDED FOR APPLICATION IN ROOMS REQUIRING WALL-MOUNTED ON-OFF/RAISE-LOWER AND CEILING AND/OR WALL MOUNTED OCCUPANCY SENSOR POINT(S) OF CONTROL (@LOW VOLTAGE) OF NORMAL SYSTEM AND EGRESS TYPE LIGHTING FIXTURE(S).

CONTROL WIRING/CONDUCTORS (TYP)

LIGHTING CONTROL DIAGRAM TYPE 5 — 5 / -
NTS

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CAD DWG FILE:
DRAWN BY: ASF
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SHEET TITLE:
ELECTRICAL DIAGRAM

SHEET NUMBER:
E-701

18 OF 20 SHEETS
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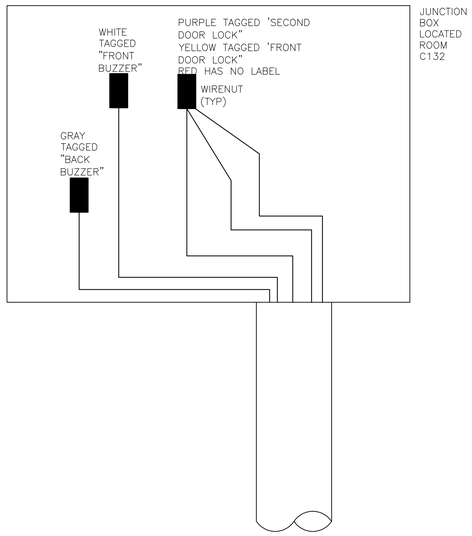
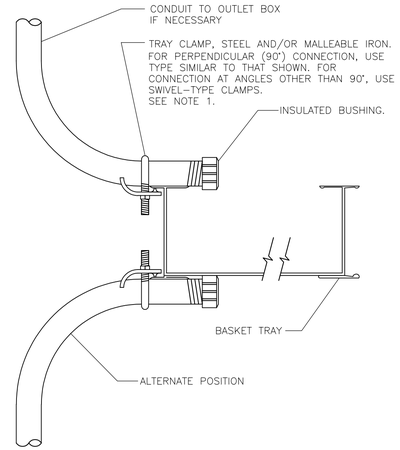


4 VESTIBULE DOOR CONTROLLER WIRING-FIELD OBSERVATION

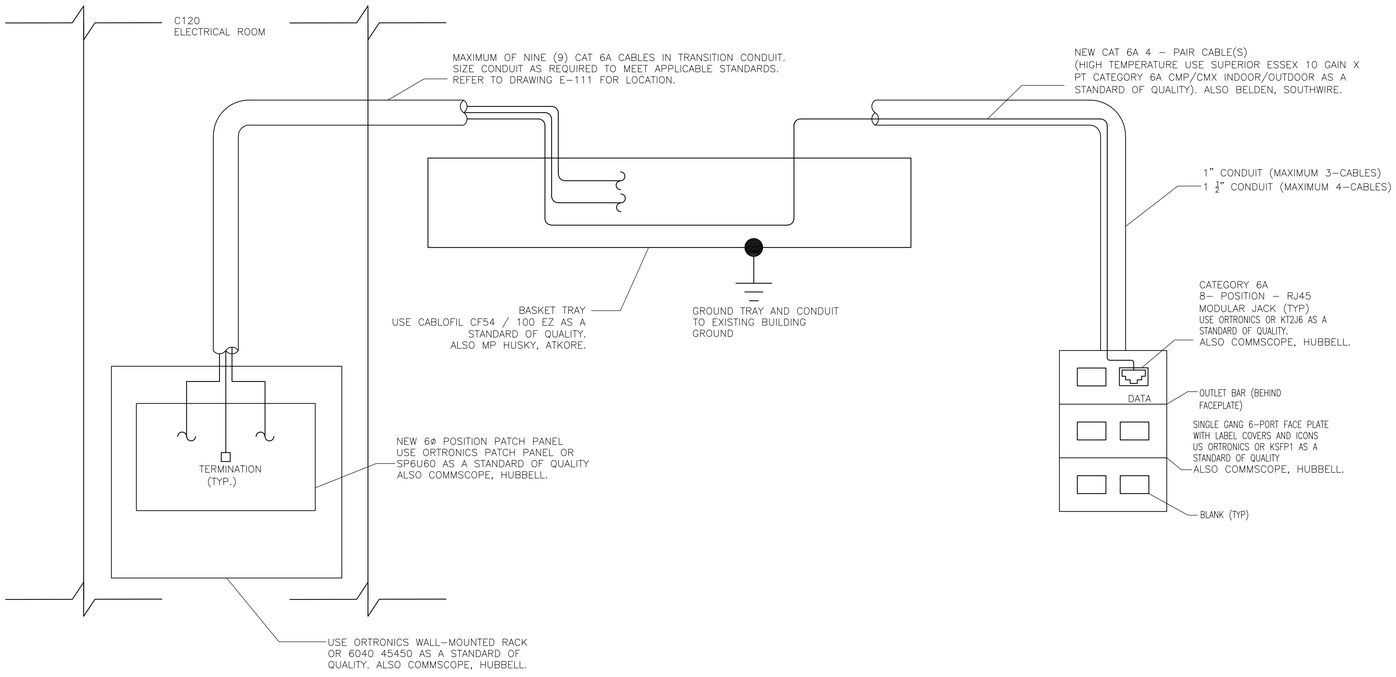
NO SCALE



NOTES:
1. USE UL APPROVED CONDUIT-TO-TRAY CLAMPS.
2. FOR CONDUITS CONTAINING CONTROL AND INSTRUMENT CABLES USE STANDARD INSULATED CONDUIT END BUSHINGS AS SHOWN.

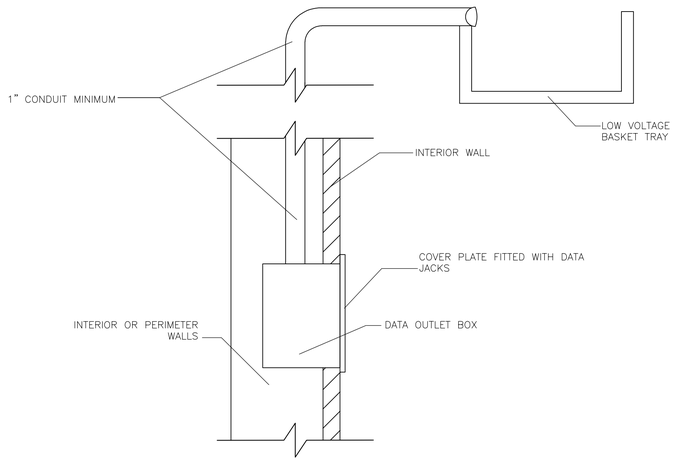
2 CONDUIT TO BASKET TRAY CONNECTIONS DETAIL

SCALE: NONE



3 DATA CABLING TO PATCH PANEL DETAIL

NO SCALE



1 DATA OUTLET BOX AND BASKET TRAY

SCALE: NONE

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

EXPIRES 12/31/2026

STATE OF MISSOURI
JULIAN MENESES NUMBER E-2002147815
REGISTERED PROFESSIONAL ENGINEER

SIGNED 10/31/2025

EDM Incorporated
Engineers Architects Planners
500 N. Broadway, Suite 1200, St. Louis, MO 63102
(314) 231-5485 FAX (314) 231-8167

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF SOCIAL SERVICES
Division of Youth Services

RENOVATIONS TO INTERIOR CORE BUILDING

HILLSBORO TREATMENT CENTER
HILLSBORO, MISSOURI

PROJECT # H2503-01
SITE # 7710
FACILITY # 88777-10003

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 10/31/2025

CAD DWG FILE:
DRAWN BY: ASF
CHECKED BY: JUM
DESIGNED BY: JUM

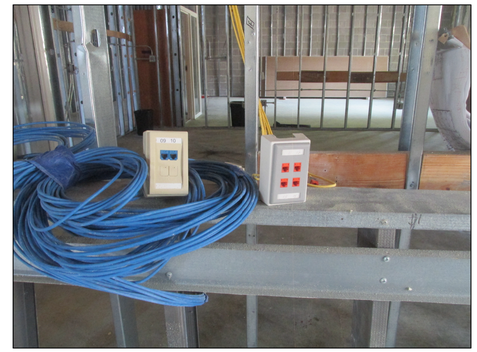
SHEET TITLE:
ELECTRICAL DETAILS

SHEET NUMBER:
E-702

19 OF 20 SHEETS
10/31/2025

1 DEVICES @ PERIMETER CLASSROOM WALL
NO SCALE

FORMER TV LOCATIONS

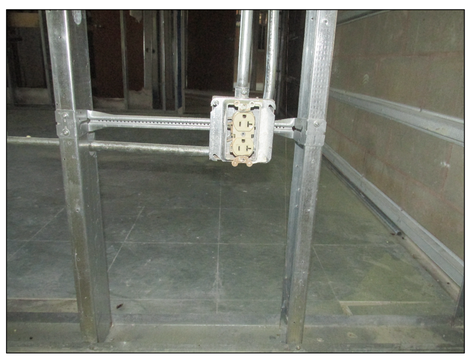


DATA DEVICES INSTALLED AFTER ORIGINAL CONSTRUCTION

2 DEVICES @ INTERIOR CLASSROOM WALL
NO SCALE

3 CLASSROOM INTERCOM STATION
NO SCALE

4 DEVICES AT COUNTER AREA CLERICAL OFFICE
NO SCALE



5 HDMI OUTLET + SPEAKER WIRES VISITATION RM
NO SCALE

6 DEVICES AT CLERICAL AREA
NO SCALE

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MIKE KEHOE,
GOVERNOR

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MEMESES
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CHECKED BY: JUM
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SHEET TITLE:

ELECTRICAL
IMAGE DETAILS

SHEET NUMBER:

E-703

20 OF 20 SHEETS
10/31/2025