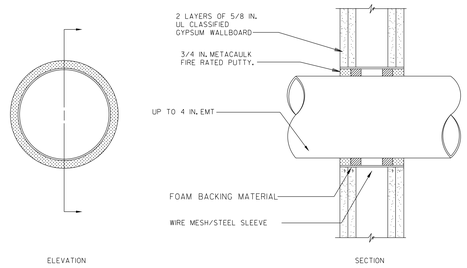
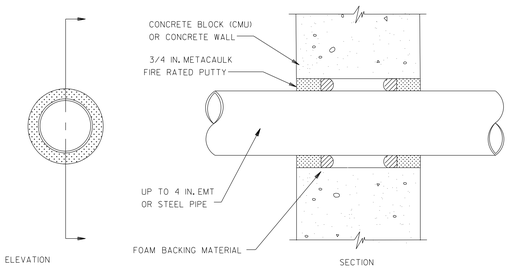


NOTE: WHERE CONDUIT IS USED AS A SLEEVE FOR ROUTING LOW VOLTAGE CABLES THROUGH A RATED WALL, LOCATE CONDUCTORS IN CENTER OF SLEEVE AND FILL OPENING WITH FIRE RATED PUTTY AT EACH END OF SLEEVE.

5 / E5.2 DETAIL - GYPSUM WALLBOARD PENETRATION

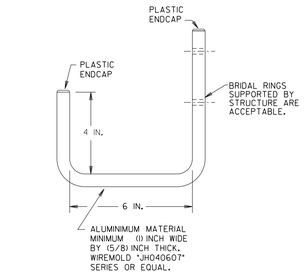
NOT TO SCALE



NOTE: WHERE CONDUIT IS USED AS A SLEEVE FOR ROUTING LOW VOLTAGE CABLES THROUGH A RATED WALL, LOCATE CONDUCTORS IN CENTER OF SLEEVE AND FILL OPENING WITH FIRE RATED PUTTY AT EACH END OF SLEEVE.

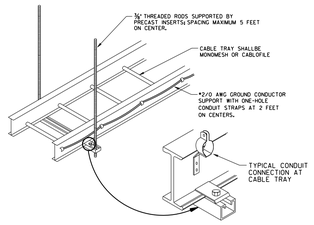
6 / E5.2 DETAIL - CONCRETE WALL PENETRATION

NOT TO SCALE



2 / E5.2 J-HOOK DETAIL

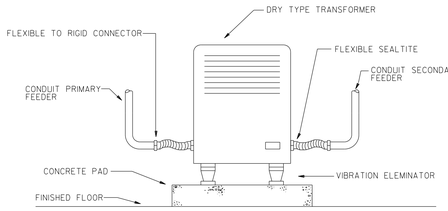
NOT TO SCALE



3 / E5.2 LADDER CABLE TRAY

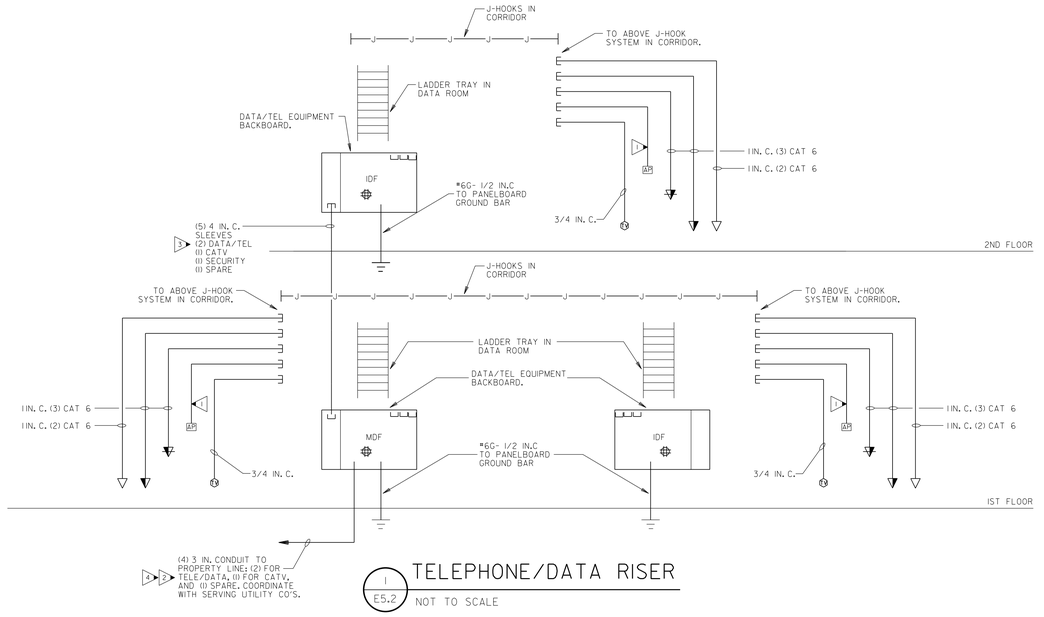
NOT TO SCALE SYMBOL:

NOTE: LADDER TRAY ONLY IN LOCATIONS SPECIFICALLY NOTED.



4 / E5.2 FLOOR MOUNTED TRANSFORMER

NOT TO SCALE



1 / E5.2 TELEPHONE/DATA RISER

NOT TO SCALE

KEYED NOTES: (DETAIL 1/E5.2)

1. PROVIDE (2) CAT 6A IN 1IN. C. TO BISCUIT JACK FLUSH MOUNTED IN CEILING FOR WIRELESS AP. WIRELESS ACCESS POINT PROVIDED BY OTHERS.
2. PROVIDE (2) - 3 IN. CONDUITS FOR DATA/TEL AND (1) SPARE CONDUIT. (1) CONDUIT FOR (1) 50 PAIR EXTERIOR RATED, GEL FILLED COPPER CAT 6E. (1) CONDUIT FOR 12 STRAND MULTIMODE FIBER AND 12 STAND SINGLEMODE FIBER EACH IN INNERDUCT. COORDINATE WITH OWNER FOR EXACT FIBER SPECIFICATIONS AND TERMINATIONS. COORDINATE EXACT DATA/TEL STUB OUT LOCATIONS AT DEMARC WITH SERVING UTILITY COMPANIES.
3. FROM MDF (FIRST FLOOR) TO IDF ON SECOND FLOOR: DATA; 6-STRAND FIBER MULTIMODE/6-STRAND FIBER SINGLEMODE IN INNERDUCT. TEL; 25 PAIR COPPER CABLE TO SECOND FLOOR, RISER RATED. CATV; SPARE CONDUIT FOR CABLING BY OTHERS. SECURITY; SPARE CONDUIT FOR CABLING BY OTHERS. SPARE; SPARE CONDUIT FOR FUTURE USE.
4. PROVIDE (1) - 3 IN. CONDUIT WITH PULL STRING FOR CATV SYSTEM. COORDINATE EXACT STUB OUT LOCATION AT STREET WITH SERVING UTILITY COMPANY.

GENERAL NOTES: (DATA CABLING)

1. ADDITIONAL WALL SLEEVES AND WALL PENETRATIONS WILL BE REQUIRED FOR NETWORK CABLING. PROVIDE AS NECESSARY AND FIRESTOP ALL PENETRATIONS THROUGH RATED WALLS.
2. ALL JACKS SHALL BE PROVIDED WITH ICON DENOTING DATA OR VOICE OUTLET. OUTLET SHALL BE LABELED WITH FOLLOWING NOMENCLATURE.

   D M XXX
   - XXX — JACK NUMBER
   - M — MDF OR IDF DESIGNATION FROM WHICH JACK IS SERVED.
   - D OR V — INDICATING VOICE OR DATA OUTLET.

   ALL PATCH PANELS AND IIO BLOCKS SHALL BE CORRESPONDINGLY LABELED.
3. PROVIDE METAL D-RING OR RING RUNS AS NECESSARY TO PROPERLY LACE AND SUPPORT ALL CABLING AT BACKBOARDS.
4. REFER TO1/8IN. PLANS SHOWING OUTLET LOCATIONS, PANEL LOCATIONS, CEILING TYPES, ETC.
5. GROUND ALL RACKS WITH #6 COPPER LOCATED AT EACH BACKBOARD. CONTRACTOR SHALL ROUTE #6G, 3/4IN. C. TO GROUND PLATE. PROVIDE 12 IN. CABLE RUNWAY SPANNING FROM TOP OF RACK TO WALL AND TURNED UP TO ABOVE DROP TILE CEILING IN ORDER TO ROUTE CABLE TO RACK. AT EACH RACK LOCATION PROVIDE A 3/16IN.X4 FT.X8 FT. BACKBOARD PAINTED WITH TWO COATS OF BLACK FIRE RETARDANT PAINT.
6. TY-WRAPS SHALL NOT BE CINCHED DOWN TIGHT ENOUGH TO DEFORM CABLES. MAINTAIN MINIMUM BEND RADIUS ON FIBER, TIE CABLES, STATION WIRES, AND PATCH CORDS.
7. REFER TO SPECIFICATIONS FOR CABLING. ALL CABLING SHALL BE PLENUM RATED.
8. PROVIDE VELCRO CABLE WRAPS AT RACKS TO PROPERLY LACE AND TRAIN PATCH CORDS AT RACKS IN AN ORDERLY FASHION.
9. FIELD VERIFY MOUNTING SPACE IN DATA RACK ROOM. PROVIDE WALL MOUNTED RACKS WHERE NECESSARY.
10. CABLING FOR COMPUTER DATA SHALL BE ROUTED VIA CABLE TRAY SYSTEM. PROVIDE CONDUIT TO 6 IN. ABOVE ACCESSIBLE CEILING. BUNDLE CABLES. SLEEVE THROUGH CORRIDOR WALL USING 4 IN.C.
11. NETWORK HUBS AND ELECTRONICS, RACK MOUNTED UPS, PATCH CORDS AND FIBER OPTIC PATCH CORDS ARE INCLUDED IN CONTRACT.
12. REFER TO POWER SHEETS FOR ADDITIONAL INFORMATION.
13. SEE WIRE MANAGEMENT NOTES.

WIRE MANAGEMENT NOTES

NOTES:

A. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A FULL J-HOOK SYSTEM IN THE CORRIDORS WITH ACCESSIBLE CEILINGS FOR LOW VOLTAGE CABLING.

B. ALL J- HOOKS SHALL BE SPACED NO MORE THAN 48 INCHES APART AND NO MORE THAN 12 INCHES FROM THE CORNER OF ANY SPACE.

C. PROVIDE J-HOOKS NO MORE THAN 12 INCHES AWAY FROM CONDUIT SLEEVES.

D. WHERE J-HOOKS ARE (2) ROWS; SPACING BETWEEN THE ROWS SHALL BE 12 INCHES.

E. CONDUIT SLEEVES SHALL BE AT THE SAME LEVEL AS THE ROWS OF J-HOOKS.

F. FIRE SEAL AROUND ALL CONDUIT SLEEVES. SEE ARCHITECTURAL SHEET FOR REQUIRED RATINGS.

G. COORDINATE THE EXACT LEVEL OF J-HOOKS AND CONDUIT SLEEVES WITH OTHER TRADES PRIOR TO ROUGHING.

H. J-HOOKS SHALL NOT BE SUPPORTED BY GYPSUM WALL BOARD. J-HOOKS SHALL BE SUPPORTED BY BLOCK WALL OR STUD. SEE ARCHITECTURAL PLAN FOR WALL MATERIALS.

I. ALL CABLING SHALL BE NEATLY BUNDLED UTILIZING "NOT A CINCH" TYPE RATED VELCRO TIE WRAPS.

J. J-HOOKS SHALL SUPPORT CABLING FOR; FIRE ALARM, DATA, TELEPHONE, CATV, SECURITY, AND SOUND.

K. ONE ROW SHALL SUPPORT SOUND SYSTEM CABLING, ONE ROW SHALL SUPPORT DATA/TELEPHONE CABLING, ONE ROW SHALL SUPPORT CATV CABLING, ONE ROW SHALL SUPPORT FIRE ALARM SYSTEM, ONE ROW SHALL SUPPORT SECURITY SYSTEM.

L. SEE DETAIL - CONCRETE WALL PENETRATION, 6/E5.2.

M. SEE DETAIL - GYPSUM WALLBOARD PENETRATION, 5/E5.2.

N. WHERE J-HOOKS ARE SHOWN ABOVE SOLID SOFFITS MORE THAN TWO FEET WIDE, PROVIDE J-HOOKS HUNG FROM STRUCTURE (4 HOOKS PRE 3/8 IN THREADED ROD.

O. PROVIDE (2) 2 INCH CONDUIT SLEEVES INTO ALL SPACES FROM CORRIDOR WHERE RATED WALLS OCCUR.

COMcheck Software Version 4.1.5.5

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: Retrofit & Renovations for Madison Methodist Church
Project Type: Alteration

Construction Site: 1091 Confederate Highway, Madison, GA 30650
Owner/Agent:
Designer/Contractor: Electrical Design Consultants, 175 New Street, Suite 1, Macon, GA 31201

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Religious Building	29380	1.00	29380
		Total Allowed Watts =	29380

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)
Religious Building (29380 sq.ft.)				
A2: A2: 2 FT. X 4 FT. TROFFER: LED Panel 40W:	1	39	40	1560
A3: A3: 2 FT. X 4 FT. TROFFER: LED Panel 33W:	1	7	32	224
B1: B1: 2 FT. X 2 FT. TROFFER: LED Panel 41W:	1	8	41	328
B2: B2: 2 FT. X 2 FT. TROFFER: LED Panel 36W:	1	1	35	35
B3: B3: 2 FT. X 2 FT. TROFFER: LED Panel 33W:	1	1	27	27
C1: C1: 4 FT. SURFACE MOUNT WRAP: LED Other Fixture Unit 50W:	1	12	49	588
D: D: 4 IN. DOWNLIGHT: LED Other Fixture Unit 25W:	1	64	22	1408
E: E: 4 FT. STRIP LIGHT: LED Other Fixture Unit 40W:	1	7	42	294
F1: F1: TWO-LIGHT WALL SCONCE: LED Other Fixture Unit 40W:	2	9	40	360
F2: F2: FOUR-LIGHT PENDANT LANTERN: LED Other Fixture Unit 60W:	4	5	60	300
F3: F3: 2 FT. VANITY LIGHT: LED Other Fixture Unit 25W:	1	6	25	150
F4: F4: 58 IN. DIAMETER CHANDELIER: LED Other Fixture Unit 25W:	8	2	25	50
F5: F5: LED WALL SCONCE: LED Other Fixture Unit 6.5W:	1	2	6	12
F6: F6: FOUR-LIGHT PENDANT LANTERN: LED Other Fixture Unit 60W:	4	8	60	480
F7: F7: LED WALL SCONCE: LED Other Fixture Unit 60W:	1	3	60	180
F8: F8: 8.5 IN. SURFACE MOUNT: LED Other Fixture Unit 60W:	1	5	60	300
F9: F9: 16 IN. DIAMETER PENDANT: LED Other Fixture Unit 60W:	1	15	60	900
F10: F10: 22.5 IN. DIAMETER PENDANT: LED Other Fixture Unit 40W:	3	6	40	240
F11: F11: 16 IN. DIAMETER SURFACE MOUNT: LED Other Fixture Unit 13W:	1	4	13	52
G: G: 6 IN. SURFACE PANEL: LED Other Fixture Unit 13W:	1	9	14	126
H: H: 30 IN. ARCHITECTURAL PENDANT: Other:	1	2	130	260
J: J: 4 FT. WALL FIXTURE: LED Other Fixture Unit 40W:	1	4	40	160
K: K: 6 IN. DOWNLIGHT: LED Other Fixture Unit 28W:	1	67	29	1943
L1: L1: 6 IN. CYLINDER: LED Other Fixture Unit 28W:	1	70	29	2030
L2: L2: 6 IN. CYLINDER: LED Other Fixture Unit 25W:	1	22	23	506
M: M: 6 IN. CYLINDER WALLWASH: LED Other Fixture Unit 28W:	1	22	29	638
N: N: 4 IN. WALL WASH: LED Other Fixture Unit 19W:	1	12	19	228
P: P: 17 FT. LINEAR PENDANT: Other:	1	12	136	1632
Q1: Q1: CYLINDRA TRACK HEAD: LED Other Fixture Unit 60W:	1	3	55	165
Q2: Q2: CYLINDRA TRACK HEAD: LED Other Fixture Unit 60W:	1	4	55	220
Q3: Q3: CYLINDRA TRACK HEAD: LED Other Fixture Unit 60W:	1	8	55	440
			Total Proposed Watts =	15836

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project 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 2015 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Jeffrey H. McGee, PE — Name - Title — Signature — 02/11/2026 Date

COMcheck Software Version 4.1.5.5

Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: Retrofit & Renovations for Madison Methodist Church
Project Type: Alteration
Exterior Lighting Zone: 2 (Residential mixed use area (LZ2))

Construction Site: 1091 Confederate Highway, Madison, GA 30650
Owner/Agent:
Designer/Contractor: Electrical Design Consultants, 175 New Street, Suite 1, Macon, GA 31201

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Front Door (Main entry)	6 ft of door	20	Yes	120
Porch (Entry canopy)	710 ft2	0.25	Yes	178
Building Exterior (Walkway < 10 feet wide)	1050 ft of	0.7	Yes	735
			Total Tradable Watts (a) =	1032
			Total Allowed Watts =	1032
			Total Allowed Supplemental Watts (b) =	600

(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)
Front Door (Main entry 6 ft of door width): Tradable Wattage				
OB: OB: ARCHITECTURAL SCONCE: LED Other Fixture Unit 60W:	1	2	60	120
Porch (Entry canopy 710 ft2): Tradable Wattage				
OA: OA: 6 IN RETROFIT DOWNLIGHT: LED Other Fixture Unit 13W	1	7	14	98
Building Exterior (Walkway < 10 feet wide 1050 ft of walkway length): Tradable Wattage				
OC: OC: BUILDING WALL PACK: LED Other Fixture Unit 16W:	1	30	16	480
OD: OD: BUILDING WALL PACK: LED Other Fixture Unit 36W:	1	12	36	432
			Total Tradable Proposed Watts =	1130

Exterior Lighting PASSES

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting alteration project 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 2015 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Jeffrey H. McGee, PE — Name - Title — Signature — 02/11/2026 Date

SERVICE DEMAND CALCULATIONS

	CONNECTED LOAD (VA)	DEMAND FACTOR	CALCULATED DEMAND (VA)
TOTAL CONNECTED LOAD (VA)	677,594		
LIGHTING	17,730	1.25	22,163
HVAC	206,010	1.00	206,010
HVAC (CONTINUOUS)	0	1.25	0
LARGEST MOTOR	3,816	1.25	4,770
MOTOR LOAD	350	1.00	350
RECEPTACLE (FIRST 10,000 VA)	10,000	1.00	10,000
RECEPTACLE (GREATER THAN 10,000 VA)	41,600	0.50	20,800
WATER HEATER	1,088	1.00	1,088
MISC LOADS	55,000	1.00	55,000
PANEL LA/LA2 (WORST CASE)	144,000	1.00	144,000
PANEL LS (WORST CASE)	54,000	1.00	54,000
FUTURE 2ND FLR PANEL (400A ESTIMATE)	144,000	1.00	144,000
DEMAND LOAD - VOLT-AMPERES			662,181
DEMAND LOAD - 208V 3-PHASE AMPS			1839.4

SERVICE IS SIZED/RATED FOR 2000 AMPS.

LB/LB2 DEMAND CALCULATIONS

	CONNECTED LOAD (VA)	DEMAND FACTOR	CALCULATED DEMAND (VA)
TOTAL CONNECTED LOAD (VA)	115,470		
LIGHTING	6,930	1.25	8,663
HVAC	84,540	1.00	84,540
HVAC (CONTINUOUS)	0	1.25	0
LARGEST MOTOR	128	1.25	160
MOTOR LOAD	128	1.00	128
RECEPTACLE (FIRST 10,000 VA)	10,000	1.00	10,000
RECEPTACLE (GREATER THAN 10,000 VA)	12,200	0.50	6,100
WATER HEATER	544	1.00	544
MISC LOADS	1,000	1.00	1,000
DEMAND LOAD - VOLT-AMPERES			111,135
DEMAND LOAD - 208V 3-PHASE AMPS			308.7

PANEL IS SIZED/RATED FOR 400 AMPS.

LC/LC2 DEMAND CALCULATIONS

	CONNECTED LOAD (VA)	DEMAND FACTOR	CALCULATED DEMAND (VA)
TOTAL CONNECTED LOAD (VA)	108,154		
LIGHTING	10,800	1.25	13,500
HVAC	1,500	1.00	1,500
HVAC (CONTINUOUS)	0	1.25	0
LARGEST MOTOR	3,816	1.25	4,770
MOTOR LOAD	94	1.00	94
RECEPTACLE (FIRST 10,000 VA)	10,000	1.00	10,000
RECEPTACLE (GREATER THAN 10,000 VA)	19,400	0.50	9,700
WATER HEATER	544	1.00	544
MISC LOADS	8,000	1.00	8,000
PANEL LS (WORST CASE)	54,000	1.00	54,000
DEMAND LOAD - VOLT-AMPERES			102,108
DEMAND LOAD - 208V 3-PHASE AMPS			283.6

PANEL IS SIZED/RATED FOR 400 AMPS.

LD DEMAND CALCULATIONS

	CONNECTED LOAD (VA)	DEMAND FACTOR	CALCULATED DEMAND (VA)
TOTAL CONNECTED LOAD (VA)	119,970		
LIGHTING	0	1.25	0
HVAC	119,970	1.00	119,970
HVAC (CONTINUOUS)	0	1.25	0
LARGEST MOTOR	0	1.25	0
MOTOR LOAD	0	1.00	0
RECEPTACLE (FIRST 10,000 VA)	0	1.00	0
RECEPTACLE (GREATER THAN 10,000 VA)	0	0.50	0
WATER HEATER	0	1.00	0
MISC LOADS	0	1.00	0
DEMAND LOAD - VOLT-AMPERES			119,970
DEMAND LOAD - 208V 3-PHASE AMPS			333.3

PANEL IS SIZED/RATED FOR 400 AMPS.

GM Architect
102 Sammy Court
WARNER ROBINS, GEORGIA 31088
glmarch@outlook.com
(478)-365-8976

ARCHITECT — STAMP INVALID UNLESS SIGNED

CONSULTANT — GEORGIA CERTIFICATE OF PROFESSIONAL ENGINEER JEFFREY H. McGEE — STAMP INVALID UNLESS SIGNED

EDC ELECTRICAL DESIGN CONSULTANTS
ELECTRICAL ENGINEERS
MACON OFFICE - PROJECT #: M24085
edc1973.com

10641 HIGHWAY 36
COVINGTON, GA 30014
770.786.3031

ELECTRICAL DETAILS & COMCHECK REPORTS

Retrofit & Renovations for Madison Methodist Church

1091 Confederate Highway, Madison, Georgia 30650

JOB NO.: 02405
DRAWN BY: TW
CHECKED BY: JM
DESCRIPTION: ISSUE
DATE: 01.24.2025
DESCRIPTION:
DATE:
DESCRIPTION:
DATE:
DESCRIPTION:
DATE:

REVISIONS:

1		8	02.09.26
2		9	
3		10	
4		11	
5		12	
6		13	
7		14	

SHEET

E5.2

OF