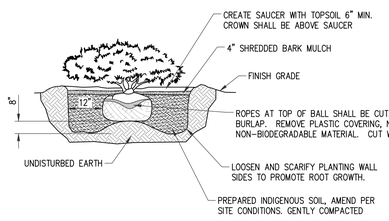
PERMIT NOTES

1. CONTRACTOR SHALL COORDINATE WITH MIDLAND COUNTY TO OBTAIN A SOIL EROSION & SEDIMENTATION CONTROL PERMIT BEFORE CONSTRUCTION.
2. CONTRACTOR TO VERIFY THAT ALL PERMITS ARE OBTAINED BEFORE STARTING WORK.

LANDSCAPE NOTES

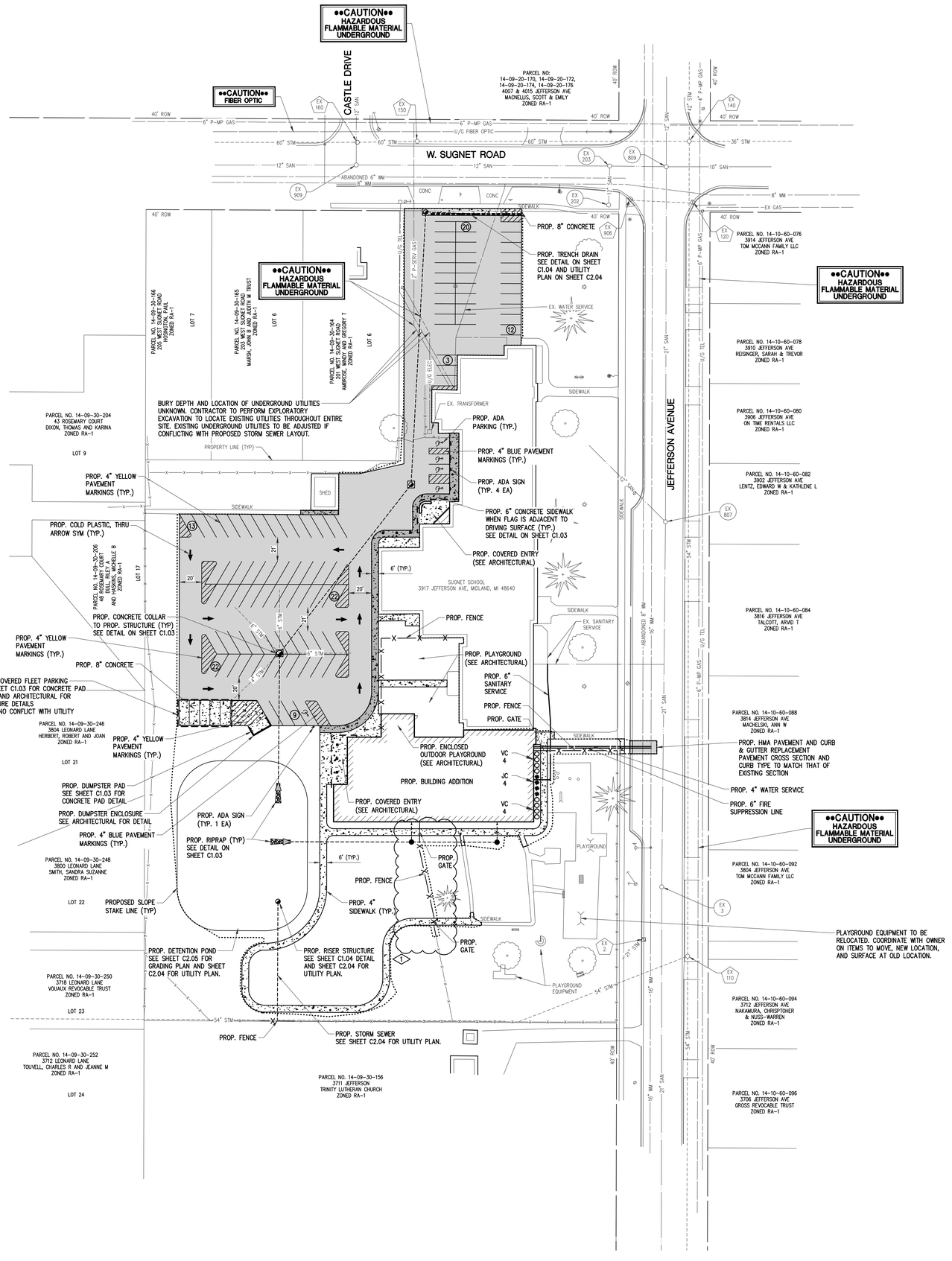
1. ALL LANDSCAPE MATERIALS SHALL BE HEALTHY AT THE TIME OF INSTALLATION.
2. CONTRACTOR SHALL SUPPLY FINISH GRADE AND EXCAVATE AS NECESSARY TO SUPPLY A MINIMUM 6" TOPSOIL DEPTH IN ALL PLANTING BEDS AND 4" TOPSOIL IN ALL LAWN AREAS UNLESS NOTED OTHERWISE.
3. ALL TOPSOIL SHALL BE IMPORTED AND SCREENED. EXISTING TOPSOIL MAY ONLY BE REUSED IF APPROVED BY THE OWNER'S REPRESENTATIVE.
4. THE CONTRACTOR SHALL GUARANTEE ALL PLANTS TO BE IN A HEALTHY CONDITION FOR A PERIOD OF TWO YEARS FOLLOWING ACCEPTANCE. CONTRACTOR SHALL REPLACE WITHOUT COST TO THE OWNER ANY DEAD OR UNACCEPTABLE PLANTS, AS DETERMINED BY THE OWNER'S REPRESENTATIVE DURING AND AT THE END OF THE GUARANTEE PERIOD.
5. ALL PLANTINGS SHALL CONFORM TO ANSI 260.1 OR CURRENT EDITION.
6. AREAS SPECIFIED WITH PLANT MATERIAL SHALL BE FINE GRADED AND SEEDED FOR TURF ESTABLISHMENT.
7. ALL EXCESS EXCAVATED MATERIALS AND DEBRIS WHICH ARE NOT ACCEPTED FOR DISPOSAL ON SITE BY THE OWNER SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AND DISPOSED OF LEGALLY OFF SITE.
8. ALL LANDSCAPE AREAS SHALL HAVE PROPER DRAINAGE THAT PREVENTS EXCESS WATER FROM STANDING ON LAWN AREAS OR AROUND TREES & SHRUBS.
9. THE OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO REJECT ANY MATERIAL NOT MEETING SPECIFICATIONS.
10. THE CONTRACTOR SHALL PLACE 4" OF SHREDDED BARK MULCH IN LANDSCAPE BEDS PER SPECIFICATIONS.
11. ALL LANDSCAPING SHALL BE MAINTAINED IN A HEALTHY ENVIRONMENT. THE OWNER SHALL MAINTAIN THE LANDSCAPING USING OWN STAFF OR CONTRACT WITH AN OUTSIDE LANDSCAPING SERVICE.



SHRUB PLANTING DETAIL

NOT TO SCALE

PLANT SCHEDULE					
SYM	KEY	BOTANICAL NAME	COMMON NAME	NOTES	QUANTITY
○	VC	VIBURNUM CARLESII	KOREAN SPICE VIBURNUM	NO. 5 CONT.	8 @ 5' SPACING
✱	JC	JUNIPERUS CHINENSIS 'SEA GREEN'	SEA GREEN JUNIPER	NO. 5 CONT.	4 @ 5' SPACING



PARKING LAYOUT NOTES:

TOTAL MINIMUM REQUIRED NUMBER OF BARRIER-FREE SPACES:	5 SPACES
EXISTING PARKING SPACE TOTALS	128 REGULAR SPACES 5 ADA SPACES 133 TOTAL SPACES
PROPOSED PARKING SPACE TOTALS	100 REGULAR SPACES 5 ADA SPACES 105 TOTAL SPACES

(X) SYMBOL DENOTES PARKING SPACE GROUP TOTALS

EXISTING STRUCTURE INVENTORY

MH# 2
TYPE: STORM
COVER: CURB INLET
RIM= 624.73
21" RCP SW INV.=620.61

MH# 3
TYPE: SANITARY
COVER: MANHOLE
RIM= 625.50
21" RCP N INV.=615.54
21" RCP S INV.=615.35

MH# 100
TYPE: STORM
COVER: FLAT GRATE
RIM= 627.99
10" N INV.=UNKNOWN
10" S INV.=UNKNOWN

MH# 110
TYPE: STORM
COVER: MANHOLE
RIM= 624.58
54" N INV.=UNKNOWN
54" S INV.=UNKNOWN
54" SW INV.=618.49

MH# 120
TYPE: STORM
COVER: CURB INLET
RIM= 625.15
8" W INV.=UNKNOWN

MH# 140
TYPE: STORM
COVER: FLAT GRATE
RIM= 625.36
42" N INV.=UNKNOWN
36" E INV.=UNKNOWN
54" S INV.=UNKNOWN
60" W INV.=UNKNOWN

MH# 150
TYPE: STORM
COVER: MANHOLE
RIM= 626.36
60" W INV.=UNKNOWN
60" E INV.=UNKNOWN

MH# 160
TYPE: STORM
COVER: MANHOLE
RIM= 626.41
60" W INV.=UNKNOWN
60" E INV.=UNKNOWN

MH# 202
TYPE: SANITARY
COVER: MANHOLE
RIM= 626.41
12" N INV.=UNKNOWN

MH# 203
TYPE: SANITARY
COVER: MANHOLE
RIM= 626.41
15" E INV.=UNKNOWN
8" S INV.=UNKNOWN
12" W INV.=UNKNOWN

MH# 580
TYPE: STORM
COVER: FLAT GRATE
RIM= 625.70
6" RCP N INV.=622.90
6" RCP W INV.=623.02
8" PVC S INV.=622.61
4" CPD SW INV.=623.13
6" RCP NW INV. =622.78

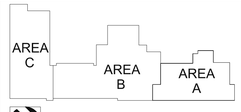
MH# 807
TYPE: SANITARY
COVER: SOLID
RIM= 626.09
21" RCP N INV.=615.73
21" RCP S INV.=615.71
12" RCP NW INV.=617.46

MH# 809
TYPE: SANITARY
COVER: SOLID
RIM= 625.75
12" RCP N INV.=616.70
10" VCP E INV.=616.75
21" RCP S INV.=616.30
24" RCP W INV.=616.30

MH# 906
TYPE: STORM
COVER: CURB INLET
RIM= 624.60
8" E INV.=621.80

MH# 909
TYPE: SANITARY
COVER: SOLID
RIM= 626.54
12" RCP N INV.=617.73
12" RCP E INV.=617.71
12" RCP W INV.=617.72

NO.	REVISION	DATE
1	ADDENDUM 1	08/31/23
	ISSUED FOR BIDS	08/23/23



KEY PLAN
NORTH NO SCALE

WTAARCH.COM
WTA ARCHITECTS
100 S Jefferson Ave, Suite 601
Saginaw, Michigan 48607
989 752 8107

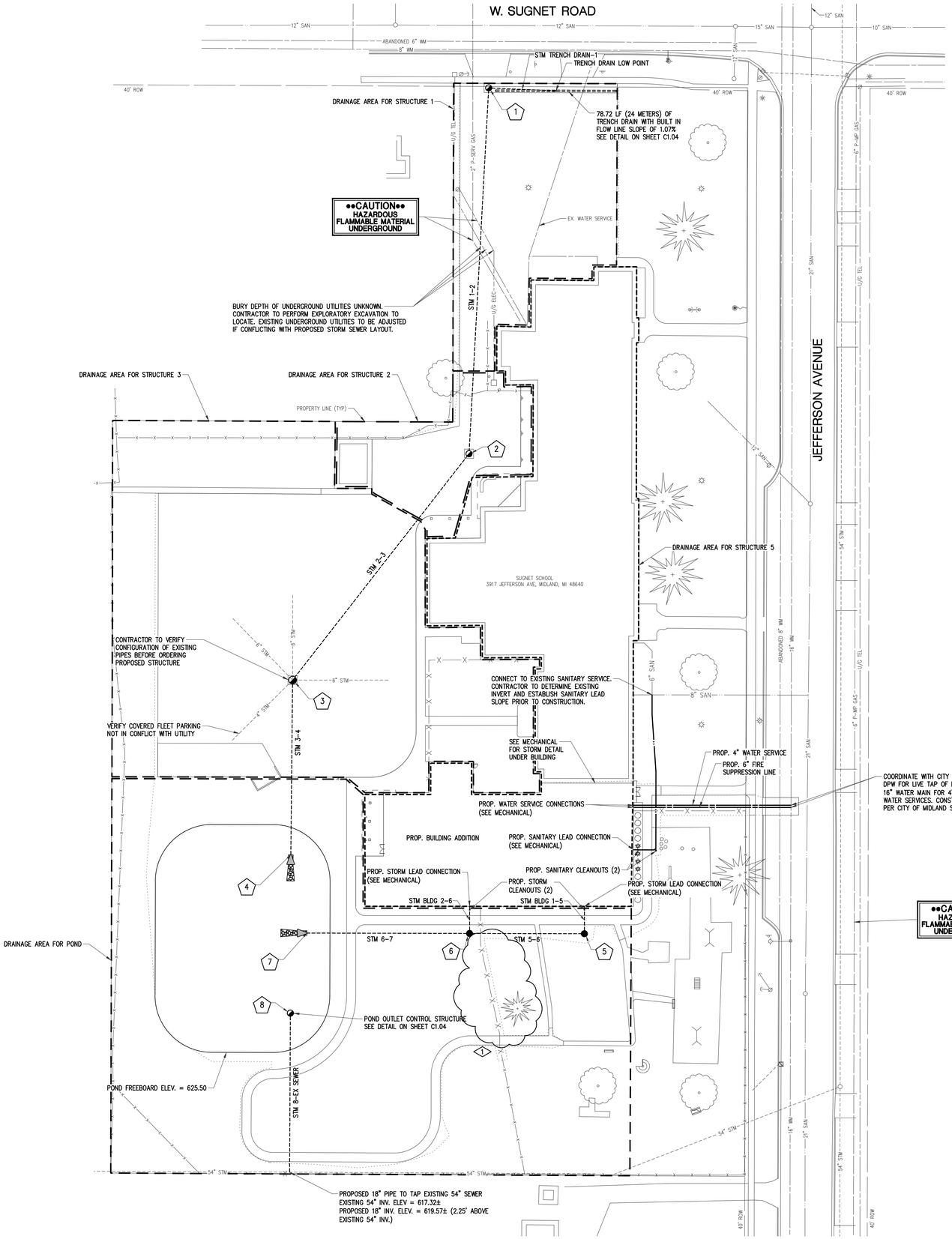
ROWE PROFESSIONAL SERVICES COMPANY

PROJECT TITLE
RENOVATION AND ADDITION:
MIDLAND COUNTY ESA

MIDLAND, MICHIGAN

SHEET TITLE
CIVIL SITE PLAN

PROJECT NUMBER	SHEET NUMBER
2022006.1	C2.03
PROJECT DATE: AUGUST 31, 2023	
CHECKED BY: DRS	



PROPOSED STORM SEWER STRUCTURE TABLE							
STRUCT NO.	DIA.	COVER TYPE	RIM ELEVATION	INVERT	NORTHING	EASTING	SUMP DEPTH
1	24"	EJ 1040 M1	RIM=626.74	12" 623.78 S (PR) 8" 623.99 E (PR)	9960.02	9791.05	2.0'
2	48"	EJ 1040 M1	RIM=627.67	12" 622.58 N (PR) 15" 622.33 SW (PR)	9721.31	9778.22	2.0'
3	60"	EJ 1040 M1	RIM=625.70	15" 621.58 S (PR) 15" 621.58 NE (PR) 6" 622.90 N (EX) 6" 622.78 NW (EX) 4" 623.13 SW (EX) 6" 623.02 E (EX)	9573.59	9663.09	2.0'
5	48"	EJ 1040 A	RIM=626.52	15" 621.42 W (PR) 12" 621.85 N (PR)	9408.09	9853.49	2.0'
6	48"	EJ 1040 A	RIM=626.44	6" 621.87 N (PR) 15" 621.12 W (PR) 15" 621.12 E (PR)	9408.27	9778.59	0.0'
8	48"	*SPECIAL	RIM=624.57	18" 620.09 S (PR)	9356.28	9661.65	1.0'

*SEE DETAIL ON SHEET C1.04 FOR MORE INFORMATION RELATING TO STRUCTURE 8 COVER TYPE AND ORIFICE.

1. SURVEY WAS PERFORMED ON A LOCAL HORIZONTAL COORDINATE SYSTEM
2. CONTRACTOR TO CONTACT D&M SITE, INC TO OBTAIN LOCAL HORIZONTAL COORDINATE SYSTEM INFORMATION

PROPOSED STORM SEWER PIPE TABLE			
PIPE NUMBER	DIAMETER	TOTAL LENGTH	SLOPE
STM 1-2	12"	239'	0.50%
STM 2-3	15"	187'	0.40%
STM 3-4	15"	114'	0.46%
STM 5-6	15"	75'	0.40%
STM 6-7	15"	106'	0.40%
STM 8-EX SEWER	18"	104'	0.50%
STM BLDG 1-5	12"	18'	0.60%
STM BLDG 2-6	6"	18'	0.15%
STM TRENCH DRAIN-1	8"	44'	1.00%

PROPOSED STORM SEWER END SECTION TABLE				
STRUCT NO.	DIA.	END OF PIPE INVERT	END OF PIPE NORTHING	END OF PIPE EASTING
4	15"	15" 621.06	9459.62	9661.95
7	15"	15" 620.70	9408.53	9672.53

1. SURVEY WAS PERFORMED ON A LOCAL HORIZONTAL COORDINATE SYSTEM
2. CONTRACTOR TO CONTACT D&M SITE, INC TO OBTAIN LOCAL HORIZONTAL COORDINATE SYSTEM INFORMATION (SEE SHEET C2.01 FOR CONTACT INFORMATION)

NO.	REVISION	DATE
1	ADDENDUM 1	08/31/23
	ISSUED FOR BIDS	08/23/23

KEY PLAN
NORTH NO SCALE

WTAARCH.COM
WTA ARCHITECTS
100 S Jefferson Ave, Suite 601
Saginaw, Michigan 48607
989 752 8107

ROWE PROFESSIONAL SERVICES COMPANY

PROJECT TITLE
RENOVATION AND ADDITION:
MIDLAND COUNTY ESA

MIDLAND, MICHIGAN

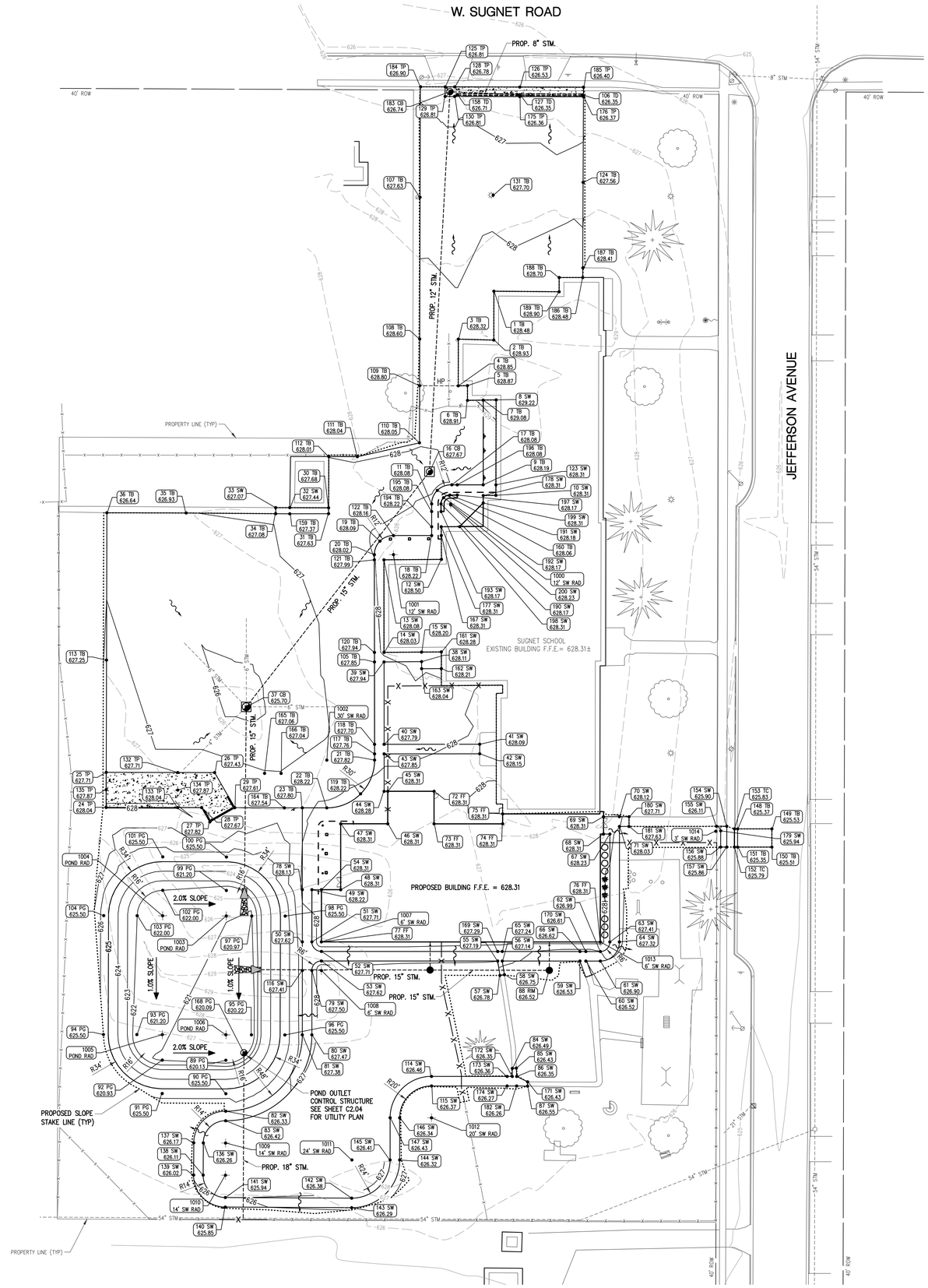
SHEET TITLE
CIVIL UTILITY PLAN

PROJECT NUMBER
2022006.1

PROJECT DATE
AUGUST 31, 2023

CHECKED BY
DRS

SHEET NUMBER
C2.04



GRADING TABLE				
POINT	ELEVATION	DESCRIPTION	NORTHING	EASTING
1	TB=628.48	EXISTING BUILDING	9834.67	9818.66
2	TB=628.93	EXISTING BUILDING	9803.97	9818.59
3	TB=628.32	EXISTING BUILDING	9804.58	9796.34
4	TB=628.85	HP; EXISTING BUILDING	9775.24	9796.27
5	TB=628.87	EXISTING BUILDING	9775.38	9802.05
6	TB=628.91	EXISTING BUILDING	9766.10	9802.07
7	TB=629.08	SW; EXISTING BUILDING	9766.26	9811.95
8	SW=629.22	EXISTING BUILDING	9766.39	9820.07
9	TB=628.19	SW	9713.06	9811.95
10	SW=628.31	FINISHED FLOOR	9706.46	9819.93
11	TB=628.08	SW; SPRING POINT	9701.06	9779.58
12	SW=628.50	EXISTING BUILDING	9666.23	9785.73
13	SW=628.08	EXISTING BUILDING	9665.96	9749.58
14	SW=628.03	EXISTING BUILDING	9607.81	9749.64
15	SW=628.20	EXISTING BUILDING	9607.99	9773.21
16	CB=627.67		9721.31	9778.22
17	TB=628.08	SW; SPRING POINT	9713.06	9792.25
18	TB=628.22	SW; SPRING POINT	9681.20	9779.58
19	TB=628.09	SW	9677.68	9747.09
20	TB=628.02	SW; SPRING POINT	9669.19	9743.58
21	TB=627.82	SW; SPRING POINT	9540.18	9743.70
22	TB=628.22	SW; SPRING POINT	9510.15	9713.69
23	TB=627.80	SW; ADA PARKING	9510.16	9698.33
24	TP=628.04		9510.46	9575.06
25	TP=627.71	TB	9532.46	9575.11
26	TP=627.43	TB	9532.29	9643.20
27	TP=627.82		9501.30	9640.23
28	TP=627.67		9510.31	9635.07
29	TP=627.61	TB	9510.26	9655.85
30	TB=627.68	SW; EXISTING BUILDING	9698.64	9714.80
31	TB=627.63	SW	9694.94	9714.79
32	SW=627.44	EXISTING BUILDING	9698.72	9690.41
33	SW=627.07	MATCH EXISTING	9698.72	9681.59
34	TB=627.08	SW; MATCH EXISTING	9694.92	9681.56
35	TB=626.93	SW; MATCH EXISTING	9695.37	9625.35
36	TB=626.64	SW; MATCH EXISTING	9695.50	9575.52
37	CB=625.70		9573.59	9663.09
38	SW=628.11		9601.99	9773.22
39	SW=627.94		9601.81	9749.64
40	SW=627.79		9550.07	9749.69
41	SW=628.09	MATCH EXISTING	9550.12	9809.75
42	SW=628.15	MATCH EXISTING	9544.12	9809.76
43	SW=627.85		9544.07	9749.69
44	SW=628.28		9520.56	9749.72
45	SW=628.31	FINISHED FLOOR	9520.56	9751.99
46	SW=628.31	FINISHED FLOOR	9500.14	9751.99
47	SW=628.31	FINISHED FLOOR	9500.15	9722.42
48	SW=628.31	FINISHED FLOOR	9458.75	9722.41
49	SW=628.22		9458.75	9704.32
50	SW=627.62		9425.98	9698.31
51	SW=627.71	SPRING POINT	9425.98	9704.31
52	SW=627.71	SPRING POINT	9419.98	9710.31
53	SW=627.62	SPRING POINT	9413.98	9710.31
54	SW=628.31	FINISHED FLOOR	9458.75	9710.32
55	SW=627.19		9413.95	9821.06
56	SW=627.14		9413.95	9823.94
57	SW=626.78	MATCH EXISTING	9404.91	9822.45
58	SW=626.75	MATCH EXISTING	9405.34	9825.27
59	SW=626.53	MATCH EXISTING	9413.95	9872.75
60	SW=626.52	MATCH EXISTING	9413.92	9876.43
61	SW=626.90	SPRING POINT	9413.93	9885.52
62	SW=626.99	SPRING POINT	9419.93	9885.52
63	SW=627.41	SPRING POINT	9425.93	9891.52
64	SW=627.52	SPRING POINT	9425.93	9897.52
65	SW=627.27		9419.95	9823.94
66	SW=626.62		9419.94	9872.75
67	SW=628.23		9493.70	9891.54
68	SW=628.31	FINISHED FLOOR	9493.70	9887.54
69	SW=628.31	FINISHED FLOOR	9504.60	9887.54
70	SW=628.12		9504.60	9897.54
71	SW=628.03		9498.44	9897.54
72	FF=628.31		9520.55	9781.07
73	FF=628.31		9500.14	9781.07
74	FF=628.31		9500.13	9824.18
75	FF=628.31		9506.39	9824.19
76	FF=628.31		9425.93	9885.52
77	FF=628.31		9425.98	9710.31
78	SW=628.13		9458.75	9698.32
79	SW=627.50	SPRING POINT	9407.98	9704.31
80	SW=627.47	SPRING POINT	9367.60	9704.30
81	SW=627.38	SPRING POINT	9367.61	9698.30
82	SW=626.33	SPRING POINT	9319.62	9650.18
83	SW=626.42	SPRING POINT	9313.62	9650.16
84	SW=626.49	MATCH EXISTING	9346.51	9830.23
85	SW=626.43	MATCH EXISTING	9346.69	9832.76
86	SW=626.35		9341.45	9832.98
87	SW=626.55	MATCH EXISTING	9335.39	9839.82
88	RIM=626.52		9408.09	9853.49
89	PG=620.13		9351.62	9650.26
90	PG=625.50		9330.62	9650.25
91	PG=625.50		9330.72	9610.27
92	PG=620.93		9351.72	9610.32
93	PG=621.20		9367.76	9594.36
94	PG=625.50		9367.81	9573.36
95	PG=620.22		9367.57	9666.34
96	PG=625.50		9367.52	9687.34
97	PG=620.97		9442.24	9666.54
98	PG=625.50		9442.18	9687.54
99	PG=621.20		9458.28	9650.58
100	PG=625.50		9479.28	9650.64

GRADING TABLE				
POINT	ELEVATION	DESCRIPTION	NORTHING	EASTING
101	PG=625.50		9479.38	9610.64
102	PG=622.00		9458.38	9610.58
103	PG=622.00		9442.42	9594.54
104	PG=625.50		9442.47	9573.54
105	TB=627.85	SW	9601.81	9743.64
106	TD=626.35		9957.98	9874.29
107	TB=627.63		9893.68	9772.29
108	TB=628.60		9804.64	9772.07
109	TB=628.80	HP	9775.30	9771.99
110	TB=628.05		9739.43	9771.91
111	TB=628.04		9730.73	9732.89
112	TB=628.01	EXISTING BUILDING	9730.81	9714.95
113	TB=627.25		9602.98	9575.29
114	SW=626.46	SPRING POINT	9341.47	9779.47
115	SW=626.37	SPRING POINT	9335.47	9779.47
116	SW=627.41		9407.98	9698.31
117	TB=627.76	SW	9544.06	9743.69
118	TB=627.70	SW	9550.06	9743.69
119	TB=628.22	SW	9518.95	9734.92
120	TB=627.94	SW	9607.81	9743.64
121	TB=627.99	SW	9665.95	9743.58
122	TB=628.16	SW; SPRING POINT	9681.20	9755.58
123	SW=628.31	EXISTING BUILDING	9713.04	9819.95
124	TB=627.56		9903.05	9874.73
125	TP=626.81	SW; MATCH EXISTING	9963.03	9788.05
126	TP=626.53	SW; MATCH EXISTING	9962.91	9834.94
127	TD=626.35		9958.08	9834.93
128	TP=626.78	SW; MATCH EXISTING	9963.01	9794.05
129	TP=626.81	TB	9957.03	9788.04
130	TP=626.81	TB	9957.01	9794.04
131	TB=627.70	EXISTING POLE	9895.00	9818.20
132	TP=627.71	TB	9532.35	9620.05
133	TP=628.04		9510.35	9620.00
134	TP=627.87		9521.35	9620.03
135	TP=627.87		9521.54	9575.09
136	SW=626.26	SPRING POINT	9299.69	9636.11
137	SW=626.17	SPRING POINT	9299.72	9630.11
138	SW=626.11	SPRING POINT	9279.48	9636.00
139	SW=626.02	SPRING POINT	9279.52	9630.00
140	SW=625.85	SPRING POINT	9259.41	9649.90
141	SW=625.94	SPRING POINT	9265.41	9649.93
142	SW=626.38	SPRING POINT	9265.00	9729.33
143	SW=626.29	SPRING POINT	9259.00	9729.30
144	SW=626.32	SPRING POINT	9288.99	9759.46
145	SW=626.41	SPRING POINT	9288.99	9753.46
146	SW=626.34	SPRING POINT	9315.47	9759.46
147	SW=626.43	SPRING POINT	9315.47	9753.46
148	TB=625.37	MATCH EXISTING	9496.95	9971.82
149	TB=625.53	MATCH EXISTING	9496.94	9993.30
150	TB=625.51	MATCH EXISTING	9485.52	9993.30
151	TB=625.35	MATCH EXISTING	9485.53	9971.78
152	TC=625.79	MATCH EXISTING	9485.53	9969.78
153	TC=625.83	MATCH EXISTING	9496.95	9969.82
154	SW=625.90	MATCH EXISTING	9498.57	9964.98
155	SW=626.11	MATCH EXISTING	9498.58	9958.54
156	SW=625.88	MATCH EXISTING	9485.53	9961.12
157	SW=625.86	MATCH EXISTING	9485.53	9964.98
158	TD=626.71		9958.18	9795.57
159	TB=627.37	SW	9694.86	9690.42
160	TB=628.06	SW	9709.55	9783.09
161	SW=628.28	EXISTING BUILDING	9608.09	9785.65
162	SW=628.21	EXISTING BUILDING	9597.59	9785.66
163	SW=628.04		9597.58	9773.26
164	TB=627.54	ADA PARKING	9510.19	9687.02
165	TB=627.06	ADA PARKING	9531.84	9674.59
166	TB=627.04	ADA PARKING	9531.82	9684.98
167	SW=628.31	FINISHED FLOOR	9681.24	9785.62
168	PG=620.09		9356.28	9661.65
169	SW=627.29		9419.95	9821.06
170	SW=626.61		9419.94	9876.44
171	SW=626.43	MATCH EXISTING	9338.04	9839.85
172	SW=626.35		9341.45	9830.23
173	SW=626.36		9341.45	9826.98
174	SW=626.27		9335.45	9826.98
175	TP=626.36		9956.91	9834.93
176	TP=626.37		9956.81	9874.95
177	SW=628.31	FINISHED FLOOR	9686.72	9785.57
178	SW=628.31	FINISHED FLOOR	9706.33	9811.97
179	SW=625.94	SPRING POINT	9495.73	9961.18
180	SW=627.71	MATCH EXISTING	9504.57	9903.57
181	SW=627.63	MATCH EXISTING	9498.46	9903.54
182	SW=626.26		9335.45	9832.98
183	CB=626.74		9960.02	9791.05
184	TP=626.90	SW; MATCH EXISTING	9963.06	9772.64
185	TP=626.40	SW; MATCH EXISTING	9962.81	9874.98
186	TB=628.48	SW; EXISTING BUILDING	9843.28	9874.48
187	TB=628.41	SW; MATCH EXISTING	9849.36	9874.57
188	TB=628.70	EXISTING BUILDING	9843.27	9859.66
189	TB=628.90	EXISTING BUILDING	9834.32	9859.67
190	SW=628.17	SPRING POINT	9701.03	9785.43
191	SW=628.18	SPRING POINT	9706.62	9791.00
192	SW=628.17		9704.98	9787.06
193	SW=628.17		9696.28	9785.44
194	TB=628.22	SW	9686.72	9779.58
195	TB=628.08	SW	9696.28	9779.58
196	TB=628.08	SW	9713.06	9795.64
197	SW=628.17		9706.63	9795.64
198	SW=628.31	FINISHED FLOOR	9686.81	9797.18
199	SW=628.31	FINISHED FLOOR	9701.65	9811.96
200	SW=628.23		9700.49	9791.51

RADIUS POINTS			
POINT	DESCRIPTION	NORTHING	EASTING
1000	12' SIDEWALK RADIUS	9701.06	9791.58
1001	12' SIDEWALK RADIUS	9669.20	9755.58
1002	30' SIDEWALK RADIUS	9540.15	9713.70
1003	16' & 34' POND RADII CENTER	9442.28	9650.54
1004	16' & 34' POND RADII CENTER	9442.38	9610.54
1005	16' & 34' POND RADII CENTER	9367.72	9610.36
1006	16' & 34' POND RADII CENTER	9367.62	9650.30
1007	6' SIDEWALK RADIUS	9425.98	9710.31
1008	6' SIDEWALK RADIUS	9407.98	9710.31
1009	14' SIDEWALK RADIUS	9299.62	9650.11
1010	14' SIDEWALK RADIUS	9279.41	9650.00
1011	24' SIDEWALK RADIUS	9289.00	9729.46
1012	20' SIDEWALK RADIUS	9315.47	9779.46
1013	6' SIDEWALK RADIUS	9425.93	9885.52
1014	3' SIDEWALK RADIUS	9495.48	9958.07

MISCELLANEOUS NOTES

1. PROPOSED MATCH EXISTING ELEVATIONS SHALL MATCH EXISTING GRADE WHERE ABUTTING EXISTING MATERIALS TO REMAIN.
2. BARRIER FREE PARKING STALLS SHALL BE CONSTRUCTED USING THE LATEST ADA REQUIREMENTS.
3. SEE SHEETS C1.03 & C1.04 FOR DETAILS OF PROPOSED WORK
4. SEE EXISTING CONDITIONS SHEET FOR BENCHMARK INFORMATION AND EXISTING STRUCTURE INVENTORIES.
5. SURVEY WAS PERFORMED ON A LOCAL HORIZONTAL COORDINATE SYSTEM
6. CONTRACTOR TO CONTACT D&M SITE, INC TO OBTAIN LOCAL HORIZONTAL COORDINATE SYSTEM INFORMATION.

GRADING TABLE LEGEND

CB – CATCH BASIN
RIM – MANHOLE RIM
SW – TOP OF SIDEWALK
TC – TOP OF CURB
TP – TOP OF CONCRETE PAVEMENT
TB – TOP OF BITUMINOUS PAVEMENT
ES – END SECTION
PG – POND GRADE
TD – TRENCH DRAIN
HP – HIGH POINT
FF – FINISHED FLOOR

N

0 30 ft 60 ft

NO.	REVISION	DATE
1	ADDENDUM 1	08/31/23
	ISSUED FOR BIDS	08/23/23

AREA C
AREA B
AREA A

KEY PLAN
NORTH NO SCALE

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Saginaw, Michigan 48607
989 752 8107

ROWE PROFESSIONAL SERVICES COMPANY

PROJECT TITLE
RENOVATION AND ADDITION:
MIDLAND COUNTY ESA

MIDLAND, MICHIGAN

SHEET TITLE
CIVIL GRADING PLAN

PROJECT NUMBER 2022006.1
PROJECT DATE AUGUST 31, 2023
CHECKED BY DRS
SHEET NUMBER C2.05

RENOVATION AND ADDITION:

MIDLAND COUNTY ESA

MIDLAND, MICHIGAN

CONTACTS:

ARCHITECT:

WTA ARCHITECTS
100 S. JEFFERSON AVENUE, SUITE 601
SAGINAW, MICHIGAN 48607
PHONE: (989) 752-8107
EMAIL: DESIGN@WTAARCH.COM

CIVIL ENGINEERS:

ROWE PROFESSIONAL SERVICES COMPANY
540 S. SAGINAW STREET, SUITE 200
FLINT, MI 48502
PHONE: (810) 341-7500

STRUCTURAL, MECHANICAL, ELECTRICAL ENGINEERS:

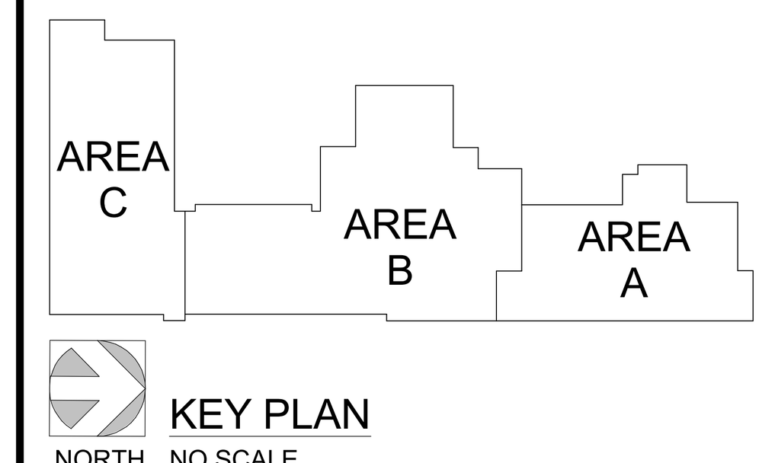
MACMILLAN ASSOCIATES, INC.
714 E. MIDLAND STREET
BAY CITY, MICHIGAN 48706
PHONE: (989) 894-4300

CONSTRUCTION MANAGER:

THREE RIVERS CORPORATION
3069 VANTAGE POINT DRIVE
MIDLAND, MICHIGAN 48642
PHONE: (989) 631-7402

INDEX OF DRAWINGS:

NO.	REVISION	DATE
1	ADDENDUM NO. 1	08/31/23
	ISSUED FOR BID	08/23/23



KEY PLAN
NO SCALE

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PROJECT TITLE
RENOVATION AND ADDITION:
MIDLAND COUNTY ESA

MIDLAND, MICHIGAN

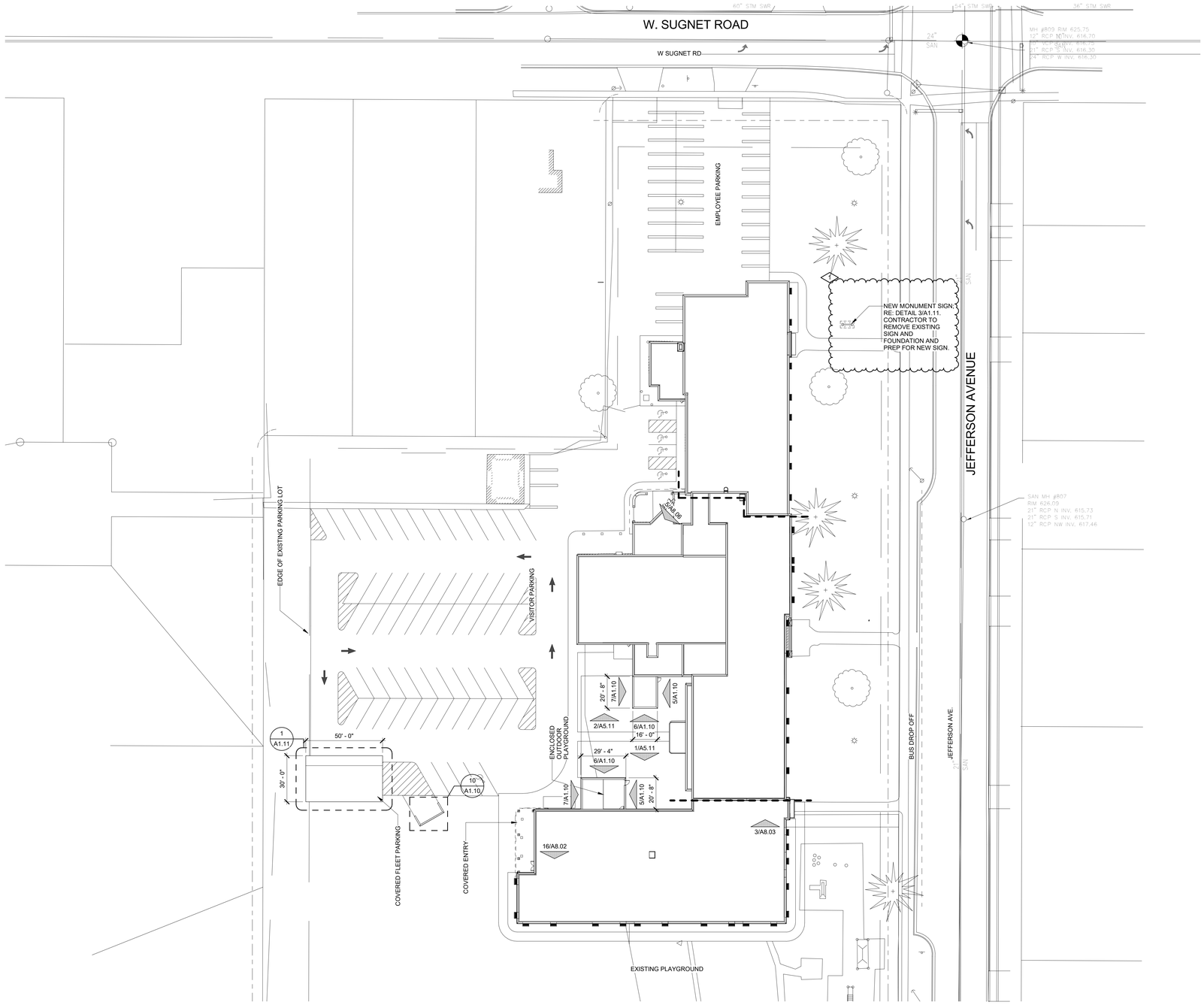
SHEET TITLE
TITLE SHEET

PROJECT NUMBER
2022006.1

PROJECT DATE
AUGUST 23, 2023

CHECKED BY
JMJ

SHEET NUMBER
TS

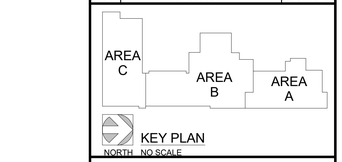


NORTH 1 A1.01 ARCHITECTRUAL SITE PLAN

SCALE: 1" = 30'-0"

GENERAL SITE NOTES:

NO.	REVISION	DATE
1	ADDENDUM NO. 1	08/31/23
	ISSUED FOR BID	08/23/23



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PROJECT TITLE
RENOVATION AND ADDITION:
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MIDLAND, MICHIGAN

SHEET TITLE
ARCHITECTURAL SITE PLAN

PROJECT NUMBER
2022006.1

PROJECT DATE
AUGUST 23, 2023

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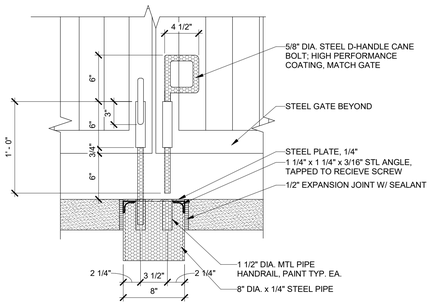
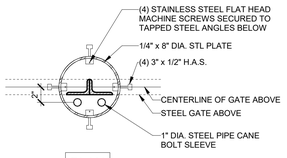
SHEET NUMBER
A1.01

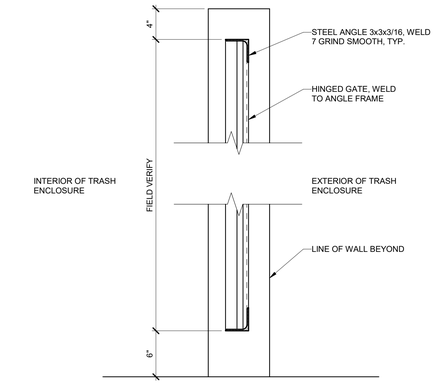


SECTION

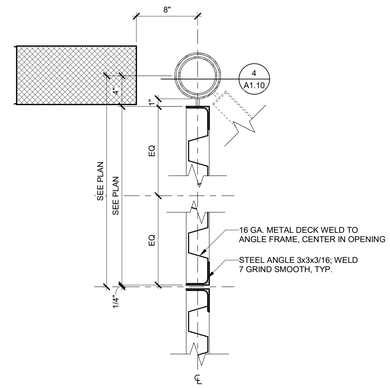


PLAN

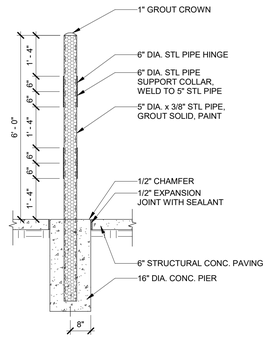
1 / A1.10 SITE - GATE CANE BOLT DETAIL
SCALE: 1 1/2" = 1'-0"



2 / A1.10 SITE - GATE SECTION
SCALE: 1 1/2" = 1'-0"

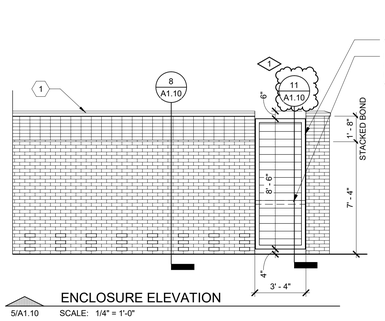


3 / A1.10 SITE - GATE SUPPORT POST - PLAN
SCALE: 1 1/2" = 1'-0"

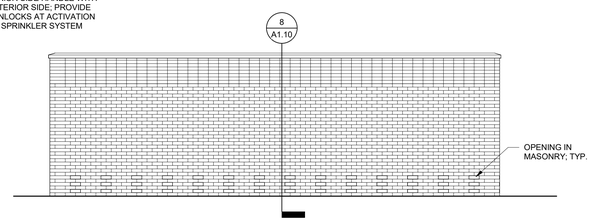


4 / A1.10 SITE - GATE SUPPORT POST - SECTION
SCALE: 1/2" = 1'-0"

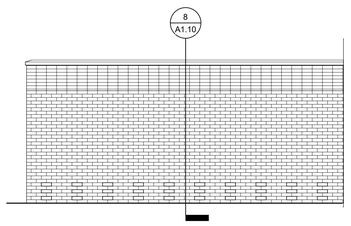
GENERAL SITE NOTES:



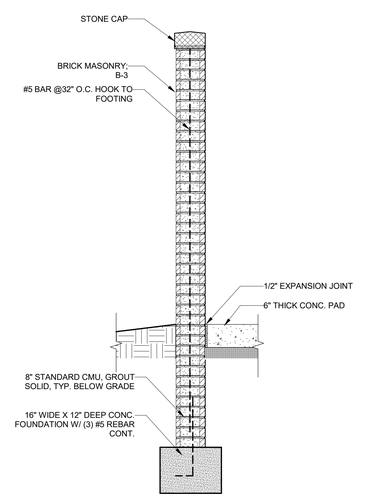
ENCLOSURE ELEVATION
5/A1.10 SCALE: 1/4" = 1'-0"



ENCLOSURE ELEVATION
6/A1.10 SCALE: 1/4" = 1'-0"

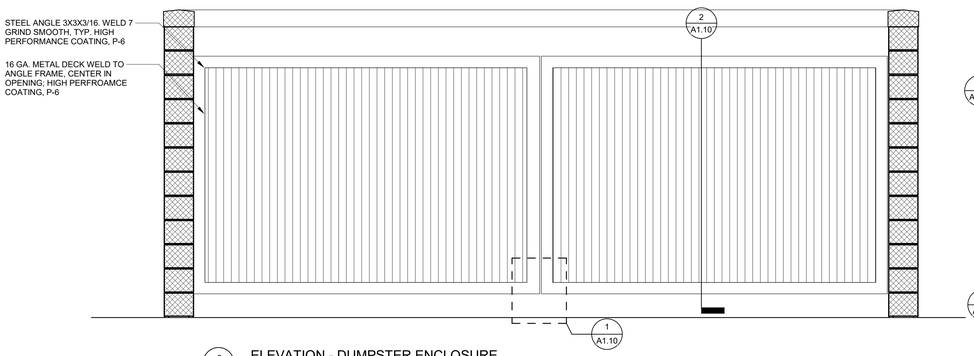


ENCLOSURE ELEVATION
7/A1.10 SCALE: 1/4" = 1'-0"

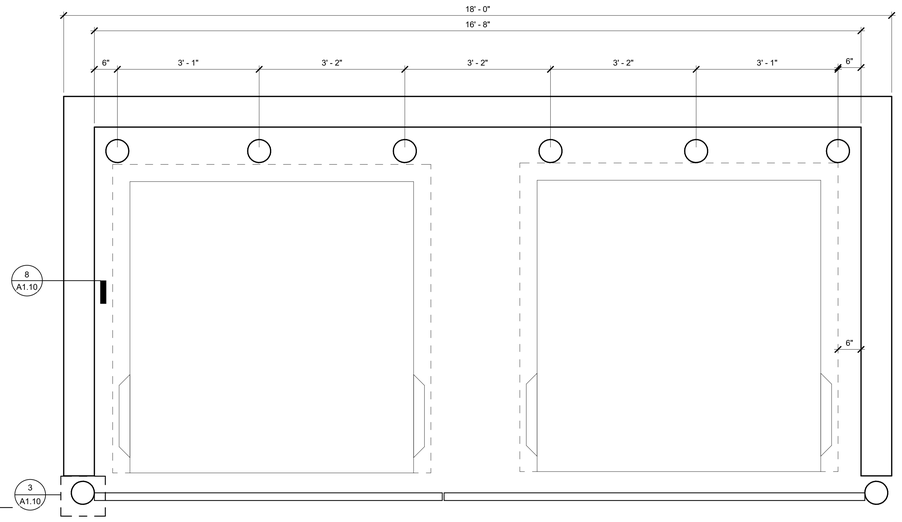


8 / A1.10 SECTION - ENCLOSURE WALL
SCALE: 3/4" = 1'-0"

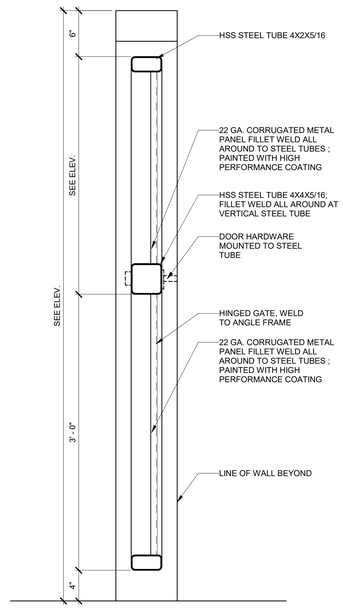
1	ADDENDUM NO. 1	08/31/23
	ISSUED FOR BID	08/23/23
NO.	REVISION	DATE



9 / A1.10 ELEVATION - DUMPSTER ENCLOSURE
SCALE: 3/4" = 1'-0"



10 / A1.10 ENLARGED PLAN - DUMPSTER ENCLOSURE
SCALE: 3/4" = 1'-0"



11 / A1.10 SECTION @ ENCLOSURE DOOR
SCALE: 1 1/2" = 1'-0"

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PROJECT TITLE
RENOVATION AND ADDITION:
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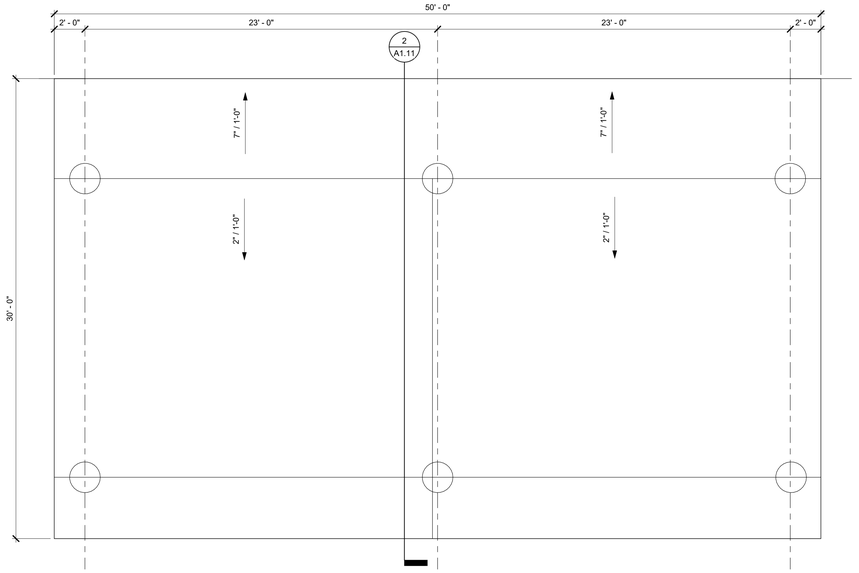
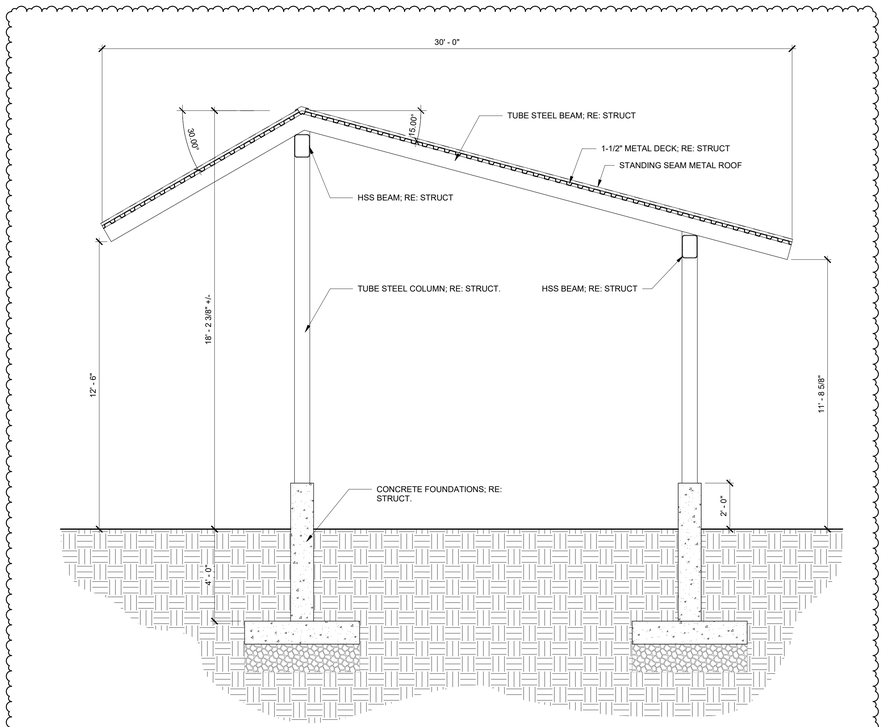
MIDLAND, MICHIGAN

SHEET TITLE
ARCHITECTURAL SITE DETAILS

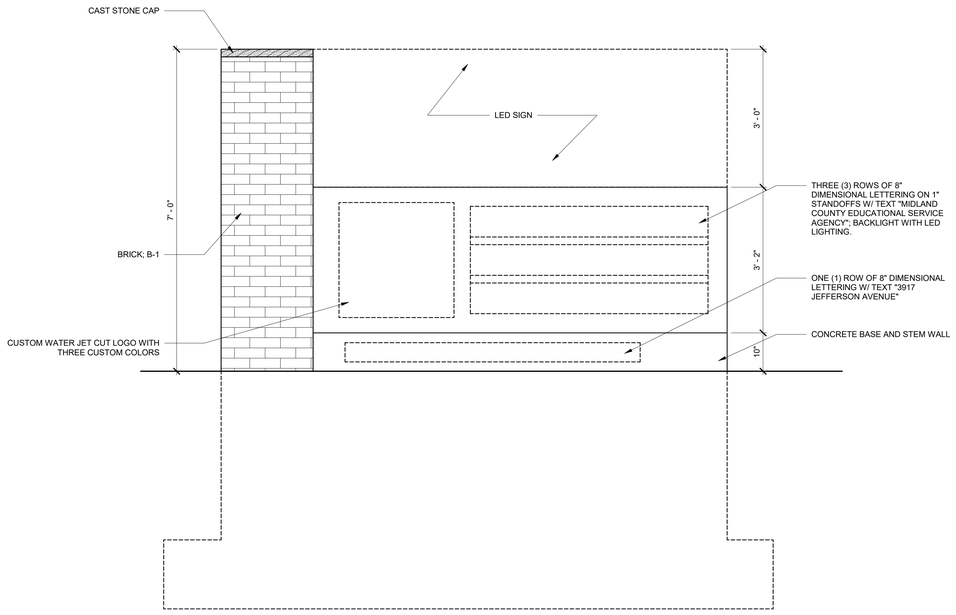
PROJECT NUMBER 2022006.1	SHEET NUMBER A1.10
PROJECT DATE AUGUST 23, 2023	
CHECKED BY JMJ	



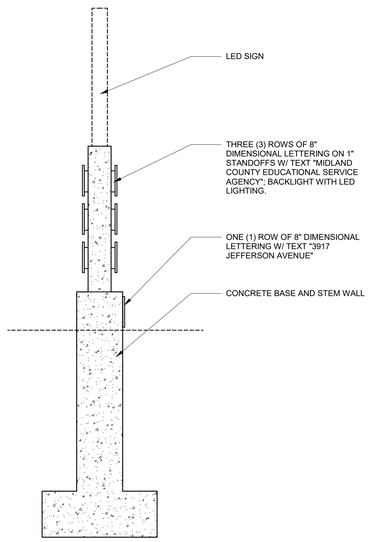
1 A1.11 PLAN @ FLEET CANOPY
SCALE: 1/4" = 1'-0"



2 A1.11 SECTION @ FLEET PARKING CANOPY
SCALE: 3/8" = 1'-0"



ELEVATION



SECTION

1 3 A1.11 MONUMENT SIGN
SCALE: 3/4" = 1'-0"

NO.	REVISION	DATE
1	ADDENDUM NO. 1	08/31/23
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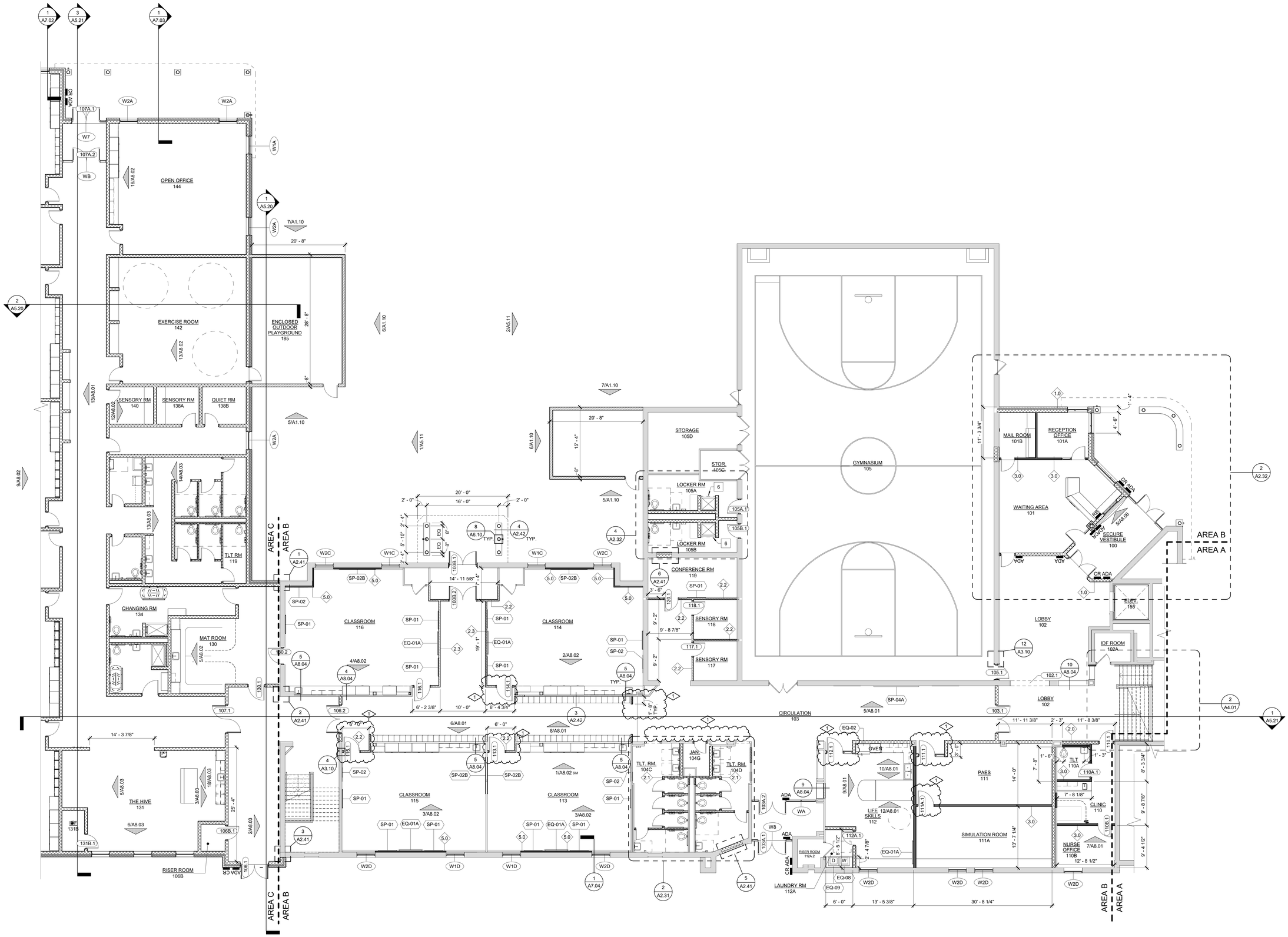
SHEET NUMBER
A1.11



1 FLOOR PLAN MAIN LEVEL - AREA B
A2.12 SCALE: 1/8" = 1'-0"

GENERAL PLAN NOTES:

1. DIMENSIONS INDICATED ARE FROM THE FACE OF STUD AND FACE OF MASONRY UNLESS NOTED OTHERWISE. REFER TO ENLARGED PLANS FOR ADDITIONAL DIMENSIONS NOT INDICATED ON OVERALL PLANS.
2. REFER TO FLOOR FINISHPLANS FOR FLOOR MATERIALS & PATTERNS.
3. PLUMBING FIXTURES ARE SHOWN FOR REFERENCE & LOCATION ONLY, REFER TO MECHANICAL DRAWINGS FOR DETAILS & SPECIFICATIONS.
4. CONTRACTOR TO COORDINATE LOCATIONS OF ADDITIONAL PENETRATIONS THROUGH WALLS AND FLOORS NOT INDICATED ON ARCHITECTURAL DRAWINGS. REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL. REFER TO STRUCTURAL DRAWINGS FOR LINTEL OR FRAMING REQUIREMENTS.
5. ALL INTERIOR WALLS ARE 8" CMU (2.0) UNLESS OTHERWISE NOTED.

PLAN KEYNOTES

1 TOILET PARTITION
2 MOP SINK (REFER TO MECHANICAL DRAWINGS FOR DETAILS)
3 UTILITY SHELF W/ MOP HOLDER; RE: SPEC.
4 SENSORY SWING, RE: FURNISHED BY OWNER
5 COPY MACHINE BY OWNER, RE: ELECT.
6 SHOWER ROD
7 DOWNSPOUT NOZZEL
8 NEW COLUMN FOR EXISTING BEAM, CONTRACTOR TO CONDUCT ON SITE CONFERENCE WITH ARCHITECT AND ENGINEER TO VERIFY LOCATION AND DETERMINE IF WHAT IS SHOWN IS APPROPRIATE.
9 ADULT CHANGING TABLE
10 ADA BENCH

NO.	REVISION	DATE
1	ADDENDUM NO. 1	08/31/23
	ISSUED FOR BID	08/23/23

KEY PLAN
NORTH NO SCALE

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PROJECT TITLE
RENOVATION AND ADDITION:
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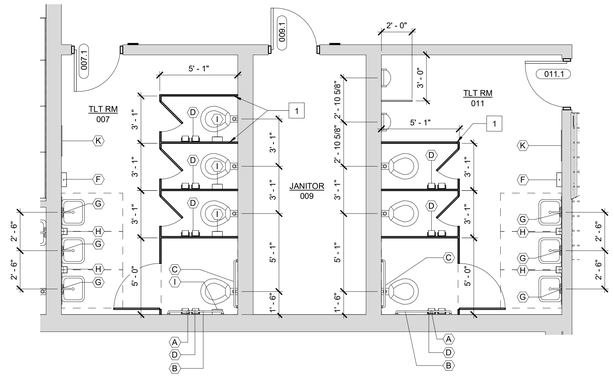
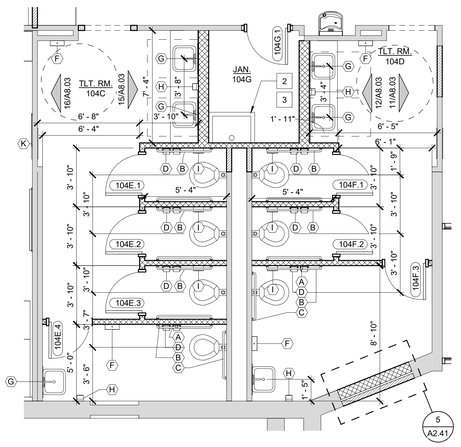
SHEET TITLE
FLOOR PLAN - AREA B - MAIN LEVEL

PROJECT NUMBER	SHEET NUMBER
2022006.1	A2.12
PROJECT DATE: AUGUST 23, 2023	
CHECKED BY: JMJ	



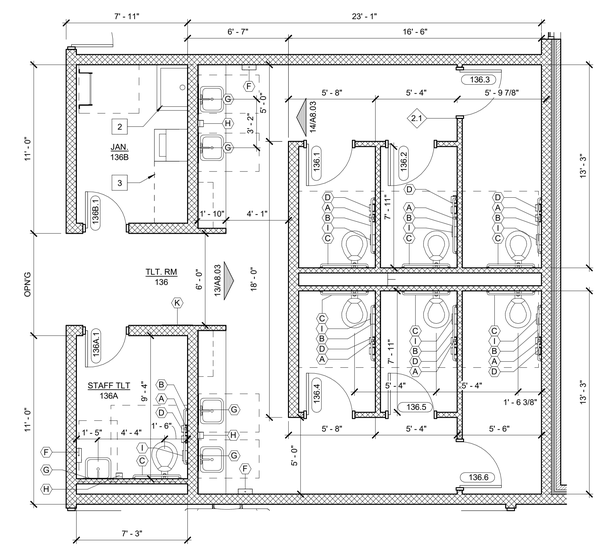
1 A2.31 ENLARGED PLAN - TOILET ROOMS 007 & 011

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



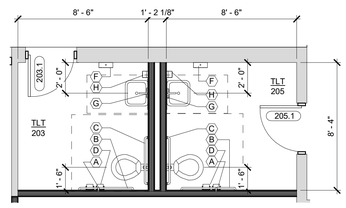
2 A2.31 ENLARGED PLAN - TOILET ROOM 104E

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



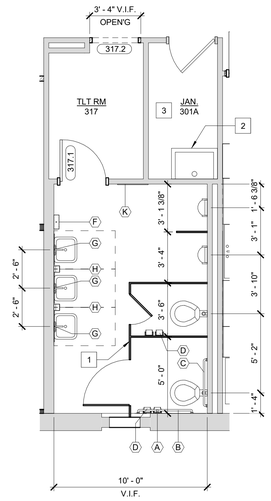
3 A2.31 ENLARGED PLAN - TOILET ROOM 136

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



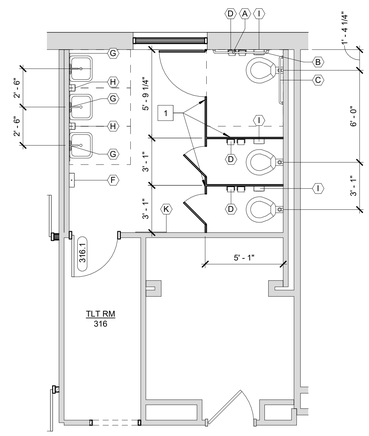
4 A2.31 ENLARGED PLAN - TOILET ROOM 203 & 206

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



5 A2.31 ENLARGED PLAN - TOILET ROOM 317

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



6 A2.31 ENLARGED PLAN - TOILET ROOM 316

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

TOILET ACCESSORIES SCHEDULE

Type Mark	ITEM DESCRIPTION	FURNISHED BY	INSTALLED BY	COMMENTS
A	18" VERTICAL GRAB BAR	G.C.	G.C.	
B	36" GRAB BAR	G.C.	G.C.	
C	42" GRAB BAR	G.C.	G.C.	
D	TOILET PAPER DISPENSER	OWNER	G.C.	
F	PAPER TOWEL DISPENSER	OWNER	G.C.	
G	24 X 36 MIRROR	G.C.	G.C.	
H	SOAP DISPENSER	G.C.	G.C.	
I	SANITARY DISPOSAL	G.C.	G.C.	
J	ASH TRAY	G.C.	G.C.	WALL MOUNTED
K	24 x 48 MIRROR	G.C.	G.C.	STAINLESS STEEL TRIM

GENERAL PLB. / EQUIP. NOTES:

1. ALL TOILET PARTITIONS SHALL BE BLACK CORE PHENOLIC

PLAN KEYNOTES

1 TOILET PARTITION
2 MOP SINK (REFER TO MECHANICAL DRAWINGS FOR DETAILS)
3 UTILITY SHELF W/ MOP HOLDER; RE: SPEC.
4 SENSORY SWING, RE: FURNISHED BY OWNER
5 COPY MACHINE BY OWNER, RE: ELECT.
6 SHOWER ROD
7 DOWNSPOUT NOZZEL
8 NEW COLUMN FOR EXISTING BEAM, CONTRACTOR TO CONDUCT ON SITE CONFERENCE WITH ARCHITECT AND ENGINEER TO VERIFY LOCATION AND DETERMINE IF WHAT IS SHOWN IS APPROPRIATE.
9 ADULT CHANGING TABLE
10 ADA BENCH

NO.	REVISION	DATE
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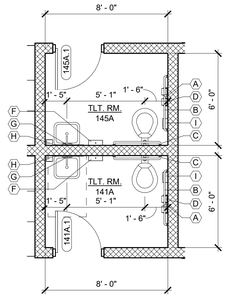
PROJECT TITLE
RENOVATION AND ADDITION:
MIDLAND COUNTY ESA

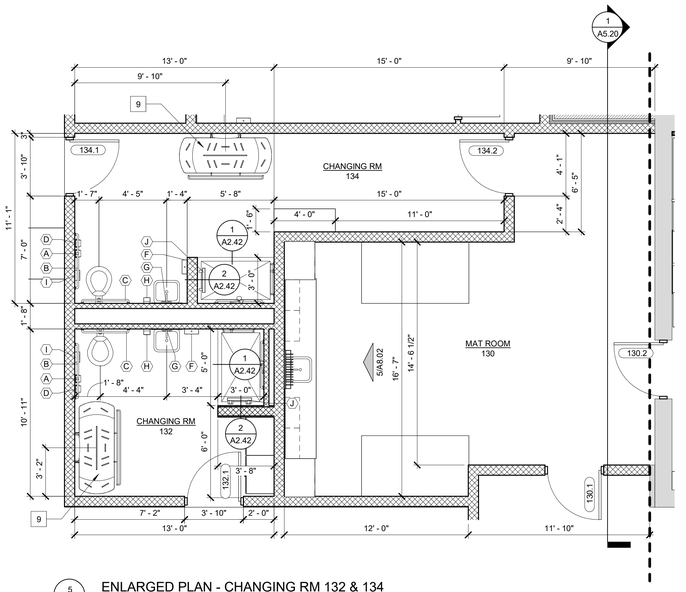
MIDLAND, MICHIGAN

SHEET TITLE
ENLARGED PLANS

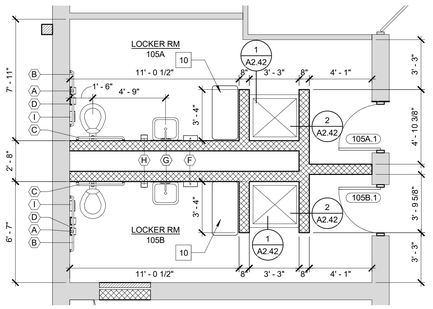
PROJECT NUMBER 2022006.1
PROJECT DATE AUGUST 23, 2023
CHECKED BY JMJ
SHEET NUMBER A2.31



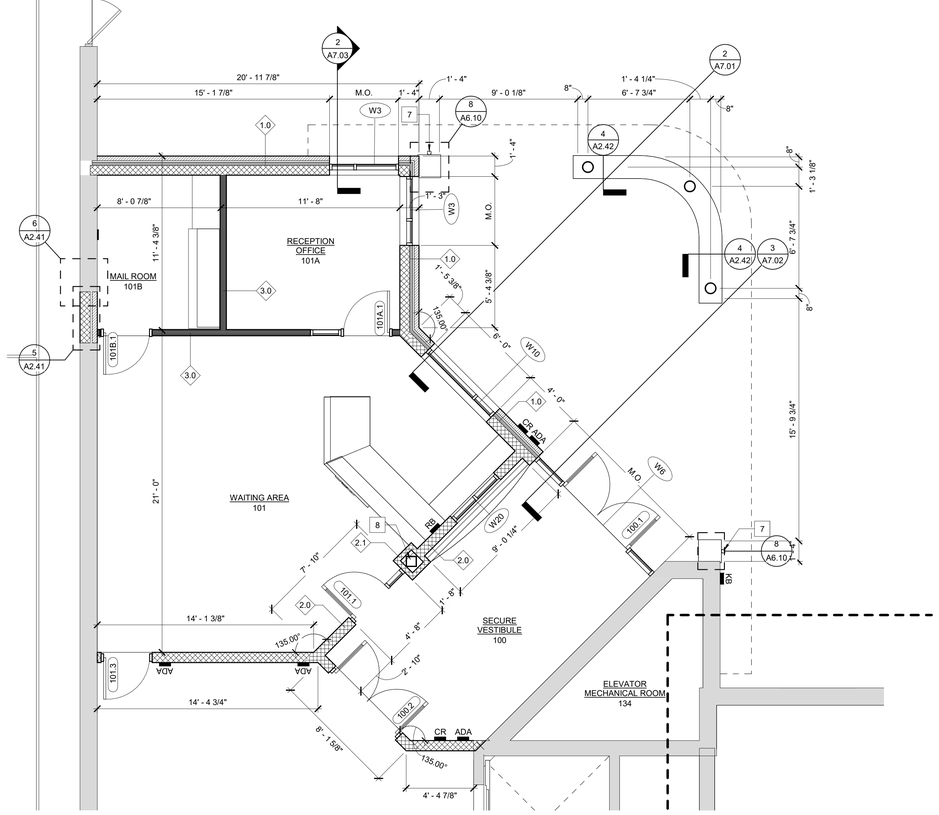
1 A2.32 ENLARGED PLAN - TOILET ROOM 141A & 145A
SCALE: 1/4" = 1'-0"



5 A2.32 ENLARGED PLAN - CHANGING RM 132 & 134
SCALE: 1/4" = 1'-0"



4 A2.32 ENLARGED PLAN - LOCKER RM 105A & 105B
SCALE: 1/4" = 1'-0"



2 A2.32 ENLARGED PLAN @ MAIN ENTRY
SCALE: 1/4" = 1'-0"

TOILET ACCESSORIES SCHEDULE

Type Mark	ITEM DESCRIPTION	FURNISHED BY	INSTALLED BY	COMMENTS
A	18" VERTICAL GRAB BAR	G.C.	G.C.	
B	36" GRAB BAR	G.C.	G.C.	
C	42" GRAB BAR	G.C.	G.C.	
D	TOILET PAPER DISPENSER	OWNER	G.C.	
F	PAPER TOWEL DISPENSER	OWNER	G.C.	
G	24 X 36 MIRROR	G.C.	G.C.	
H	SOAP DISPENSER	G.C.	G.C.	
I	SANITARY DISPOSAL	G.C.	G.C.	
J	ADA SHOWER SEAT	G.C.	G.C.	WALL MOUNTED
K	24 x 48 MIRROR	G.C.	G.C.	STAINLESS STEEL TRIM

GENERAL PLB. / EQUIP. NOTES:

1. ALL TOILET PARTITIONS SHALL BE BLACK CORE PHENOLIC

PLAN KEYNOTES

1 TOILET PARTITION
2 MOP SINK (REFER TO MECHANICAL DRAWINGS FOR DETAILS)
3 UTILITY SHELF W/ MOP HOLDER; RE: SPEC.
4 SENSORY SWING, RE: FURNISHED BY OWNER
5 COPY MACHINE BY OWNER, RE: ELECT.
6 SHOWER ROD
7 DOWNSPOUT NOZZEL
8 NEW COLUMN FOR EXISTING BEAM, CONTRACTOR TO CONDUCT ON SITE CONFERENCE WITH ARCHITECT AND ENGINEER TO VERIFY LOCATION AND DETERMINE IF WHAT IS SHOWN IS APPROPRIATE.
9 ADULT CHANGING TABLE
10 ADA BENCH

NO.	REVISION	DATE
1	ADDENDUM NO. 1	08/31/23
	ISSUED FOR BID	08/23/23

WTAARCH.COM
WTA ARCHITECTS
100 S Jefferson Ave, Suite 601
Saginaw, Michigan 48607
989 752 8107

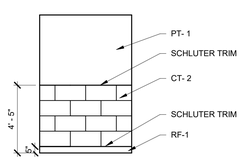
PROJECT TITLE
RENOVATION AND ADDITION:
MIDLAND COUNTY ESA
MIDLAND, MICHIGAN

SHEET TITLE
ENLARGED PLANS

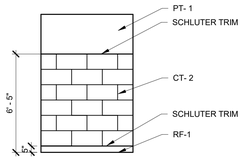
PROJECT NUMBER 2022006.1
PROJECT DATE AUGUST 23, 2023
CHECKED BY JMJ
SHEET NUMBER A2.32

FINISH MATERIAL LEGEND

SN	MANUFACTURER	STYLE	COLOR	SIZE	REMARKS
ACOUSTIC CEILING TILE					
ACT-1	USG	RADAR CLIMA PLUS HIGH NRC	WHITE	24 X 24	
ACT-2	ARMSTRONG	METALWORKS SECURELOCK NO PERF.	WHITE	24 X 24	
ACOUSTIC PANEL					
AP-1	ARMSTRONG	TECTUM SHAPES HEXAGON	FIELD PAINTED PT-5	46" X 40" X 2"	CEILING SUSPENDED IN HIVE
AP-2	USG	COLORTEX - BARZ	WHITE OAK WOODGRAIN	4" X 8"	CEILING BAFFLES CORRIDOR 201
AP-3	USG	COLORTEX - BARZ	WHITE OAK WOODRAIN	2" x 10"	CEILING BAFFLES CORRIDOR 201
AP-4	ARMSTRONG	INVISACOUSTICS	FIELD PAINTED PT-10	24" X 48" X 3/4"	CEILING DECK IN HIVE
ARTIFICAL TURF					
TURF-1	FIELDTURF	COMMAND PLAY		15'x50'	
BRICK					
B-1	BELDEN BRICK	MODULAR 141-145 VERTICAL	22-44	3-5/8" X 2-1/4" X 7-5/8"	EXTERIOR
B-2	BELDEN BRICK	MODULAR 470-479	LIGHT A	3-5/8" X 2-1/4" X 7-5/8"	MATCH EXISTING INTERIOR
CARPET					
CPT-1	INTERFACE	BITRATE	DARK TEAL	10 X 40	ASHLAR INSTALL- ADMIN CORRIDORS
CPT-2	INTERFACE	SOURCE MATERIAL	GRAPHITE	10 X 40	ASHLAR INSTALL-OFFICES
CPT-3	INTERFACE	UPLOAD	LIGHT TEAL	10 X 40	ACCENT
CPT-4	MANNINGTON	EBB	STREAM 15844	18" x 36"	AHSLAR - SUPERINT.
CPT-5	MANNINGTON	CURRENT	STREAM 15844	18" x 36"	ASHLAR - SUPERINT.
CPT-6	SHAW	OBSERVE COLOR TILE	CALM OCEANS 05405	9 X 36	ASHLAR - ADMIN CONF.
CPT-7	PATCRAFT	CONNECTING	STROLL 00540	24 X 24	MONOLITHIC
CPT-8	FORBO	FLOTEX EXPLORE PLANKS	065373 STEEL	39.37" x 9.48" x .2"	ASHLAR
CPT-9	FORBO	FLOTEX METRO TILE	546028 JADE	20" x 20" x .2"	MONOLITHIC
CPT-10	FORBO	FLOTEX TRIAD PLANKS	131007 STEEL	39.37" x 9.48" x .2"	ASHLAR
CPT-11	FORBO	FLOTEX MONTAGE PLANKS	147001 BOREAL	39.37" x 9.48" x .2"	ASHLAR
CERAMIC TILE					
CT-1	CROSSVILLE	COLOR BLOX	CELESTIAL HORIZON	12" x 12"	STAFF TOILET FLOOR
CT-2	CROSSVILLE	READY TO WEAR	HAND IN GLOVE	12" x 24"	FIELD WALL TILE
CT-3	AMERICAN OLEAN	CREEKWOOD	MAPLE LAKE	6" x 36"	
CT-4	AMERICAN OLEAN	COLOR STORY	84 PEACOCK BLUE(TEAL)	4" x 12"	VIBRANT GLOSS
CT-5	AMERICAN OLEAN	COLOR STORY	68 GRACE (PURPLE)	4" x 12"	VIBRANT GLOSS
CT-6	AMERICAN OLEAN	COLOR STORY	77 MANDARIN (ORANGE)	4" x 12"	VIBRANT GLOSS
CT-7	AMERICAN OLEAN	COLOR STORY	76 GREEN APPLE (GREEN)	4" x 12"	VIBRANT GLOSS
CT-8	NOT USED				
CT-9	AMERICAN OLEAN	COLOR STORY	84 PEACOCK BLUE HEXAGON	1.5" HEXAGON	VIBRANT GLOSS
CT-10	OLYMPIA TILE	OCEANI	AEQUA	2 X 10	LIFE SKILLS SUBWAY
CT-11	ONIX	2003509 RODAS	TESSERAE	1" X 1"	STAFF LOUNGE
CT-12	AMERICAN OLEAN	COLOR STORY	77 MANDARIN	4" x 4"	VIBRANT GLOSS
CT-13	AMERICAN OLEAN	COLOR STORY	76 GREEN APPLE	4" x 4"	VIBRANT GLOSS
CT-14	AMERICAN OLEAN	COLOR STORY	68 GRACE	4" x 4"	VIBRANT GLOSS
CT-15	AMERICAN OLEAN	COLOR STORY	84 PEACOCK BLUE(TEAL)	4" x 4"	VIBRANT GLOSS
CONCRETE MASONRY					
CMU-1	MFR	STANDARD	UNFINISHED (FIELD PAINTED)	VARIESx8"x16"	
DECORATIVE PANEL SYSTEM					
DPS-1	MARLITE	SIEVA LARGE PANEL	HPL - WILSONART LANDMARK WOOD	16'W X 8'H OA	
FIBERGLASS REINFORCED PLASTIC PANEL					
FRP-1	MARLITE SYMMETRIX	SUBWAY HORIZONTAL	LOGGIA	4' X 4'	TILE SIZE = 6" X 3"
GLASS BLOCK					
GB-1	BELDEN BRICK	CROSS RIBBED	CLEAR	8 X 8 X 4	MATCH EXISTING
LOCKERS					
LKR-1	ASI	BLACK CORE PHENOLIC	DESERT ZEPHYR 4583		
METAL PANEL					
MP-1	PAC-CLAD		CUSTOM COLOR		EXTERIOR CANOPY
MP-2	PAC-CLAD		GRANITE		EXTERIOR CANOPY CEILING
PAINT					
PT-1	SHERWIN WILLIAMS		LOGGIA SW7506		OVERALL PAINT
PT-2	SHERWIN WILLIAMS		REALLY TEAL SW6489		TEAL ACCENT
PT-3	SHERWIN WILLIAMS		RIVULET SW6760		LIGHT TEAL
PT-4	SHERWIN WILLIAMS		WOOD VIOLET SW6557		PURPLE ACCENT
PT-5	SHERWIN WILLIAMS		ADVENTURE ORANGE SW6655		ORANGE ACCENT
PT-6	SHERWIN WILLIAMS		PARAKEET SW6711		GREEN ACCENT
PT-7	SHERWIN WILLIAMS		OVERJOY SW6689		YELLOW ACCENT
PT-8	SHERWIN WILLIAMS		PAVESTONE SW7642		DOORS AND EXISTING TRIM
PT-9	SHERWIN WILLIAMS		GAUNTLET GRAY SW7019		EXISTING ENTRY ACCENT
PT-10	SHERWIN WILLIAMS		IRON ORE SW7069		HIVE EXPOSED CLNG
PT-11	SHERWIN WILLIAMS		HIGH REFLECTIVE WHITE SW7757		
PLASTIC LAMINATE					
PLAM-1	WILSONART	SOFT GRAIN FINISH	LANDMARK WOOD 7981K-12		CASEWORK & RECEPTION DESK
PLAM-2	WILSONART	FINE LINE TEXTURE	BLACK HILLS OAK 8248K-79		RECEPTION DESK
POLISHED CONCRETE					
PC-1		POLISHED CONCRETE	NATURAL, UNCOLORED		CLASS 3 GRIND
QUARTZ COUNTERTOP					
QC-1	SILESTONE	OCEAN JASPER			POLISHED
RESILIENT BASE					
RWB-1	ROPPE	PINNACLE 4-1/2" COVE	123 CHARCOAL		
RWB-2	ROPPE	PINNACLE 6" COVE	123 CHARCOAL		
RWB-2	TARKETT	4" VENTED RUBBER BASE	BLACK		
RESILIENT STAIR TREAD					
RST-1	ROPPE	MARBLE FIESTA WITH RUBBER STRIP	MARENGO M410		WITH RUBBER STRIP
RESILIENT TILE FLOORING					
RTF-1	PATCRAFT	GRAPH	GRAVEL	24 X 24	STAFF LOUNGE FIELD
RTF-2	PATCRAFT	PLANAR	TEAL PLANAR	24 X 24	STAFF LOUNGE ACCENT
RTF-3	ROPPE	MARBLE FIESTA	MARENGO M410		
RESINOUS BASE					
RB-1	SHERWIN WILLIAMS	1/4" RESUFLOR DECO FLAKE	RIVER ROCK		
RESINOUS FLOORING					
RF-1	SHERWIN WILLIAMS	1/4" RESUFLOR DECO FLAKE	RIVER ROCK		
SOLID SURFACE					
SS-1	CORIAN		LINEN		
SS-2	CORIAN		ARTISTA GRAY		
SS-3	CORIAN		LAVA ROCK		
STONE					
ST-1	ARRISCRAFT	ADAIR LIMESTONE	SEPIA	7-5/8" X 2-1/4" X 7-5/8"	EXTERIOR



WFT-1



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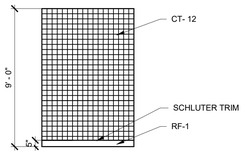

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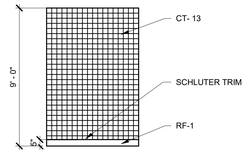

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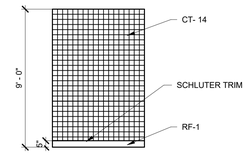

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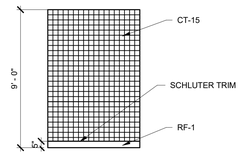

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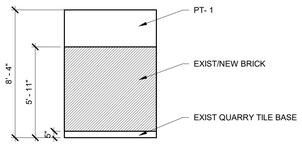

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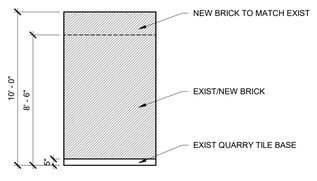

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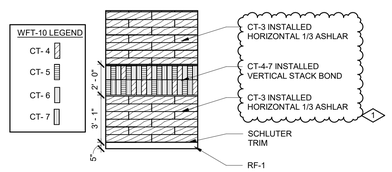

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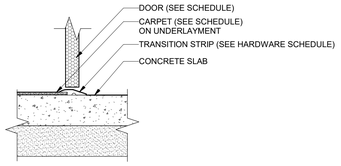
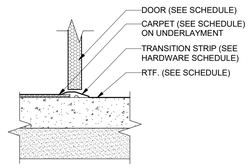
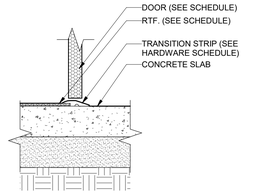


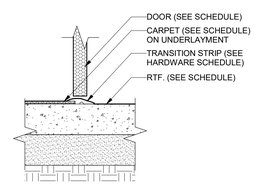
9 A3.00 DOOR TRANSITION - CONC. TO CPT.
SCALE: 1 1/2" = 1'-0"



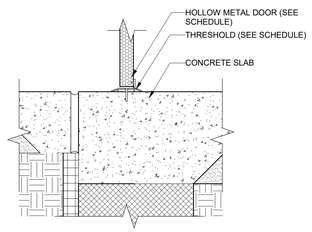
10 A3.00 DOOR TRANSITION - RTF. TO RF.
SCALE: 1 1/2" = 1'-0"



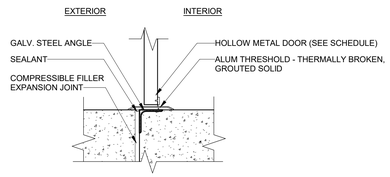
11 A3.00 DOOR TRANSITION - CONC. TO RTF.
SCALE: 1 1/2" = 1'-0"



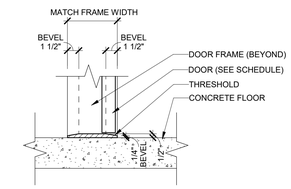
12 A3.00 DOOR TRANISTION - RTF. TO CPT.
SCALE: 1 1/2" = 1'-0"



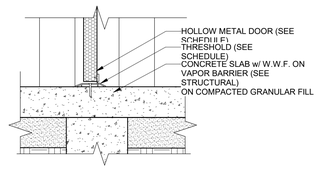
13 A3.00 H.M. DOOR EXT. SILL
SCALE: 1 1/2" = 1'-0"



14 A3.00 EXTERIOR DOOR THRESHOLD DETAIL
SCALE: 1 1/2" = 1'-0"



15 A3.00 DOOR THRESHOLD DETAIL
SCALE: 1 1/2" = 1'-0"



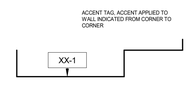
16 A3.00 HM DOOR DETAIL @ 106
SCALE: 1 1/2" = 1'-0"

INTERIOR GENERAL NOTES:

1. AT STUD WALL LOCATIONS PROVIDE BLOCKING AS REQUIRED FOR ALL WALL MOUNTED ITEMS, INCLUDING BUT NOT LIMITED TO: GRAB BARS, MIRRORS, DISPENSERS, ETC. (REFER TO MFR. RECOMMENDATIONS.
2. ALL NEW CASEWORK TO HAVE HIGH PRESSURE LAMINATE EXTERIOR AND MELAMINE LAMINATE INTERIOR. UNLESS OTHERWISE NOTED.
3. ALL FURNITURE THAT IS NOT BUILT-IN IS NOT PART OF THE SCOPE OF THIS PROJECT.
4. REFER TO FINISH MATERIAL SCHEDULE FOR SPECIFIC MANUFACTURER, STYLE, COLOR & SIZE INFORMATION
5. REFER TO REFLECTED CEILING PLANS FOR CEILING TYPES, HEIGHTS AND FINISH INFORMATION
6. AT CERAMIC TILE LOCATIONS, INSTALLER TO USE APPROPRIATE TROWEL TO ACCOMMODATE DIFFERENT TILE THICKNESSES
7.
8. PROVIDE RESILIENT BASE AT TOE KICK OF ALL CASEWORK AND BEHIND ALL MOVABLE EQUIPMENT/APPLIANCES, WHEN SCHEDULED WITHIN A ROOM.
9. TYPICAL CASE WORK NOTATION EXAMPLE

10. ALL CASEWORK LOCKABLE UNLESS OTHERWISENOTED (DOORS AND DRAWERS).
11. ALL WALL MOUNTED MECHANICAL EQUIPMENT (DIFFUSERS, GRILLES, ETC) AND ELECTRICAL EQUIPMENT (PANELS, ETC) SHALL BE PAINTED TO MATCH THE ADJACENT WALL COLOR. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR QUANTITIES AND LOCATIONS.
12. WHERE REMOVAL OR MODIFICATION TO A FINISH MATERIAL IS SHOWN, BUT NEW FINISHES ARE NOT SCHEDULED, PATCH AND REPAIR TO MATCH EXISTING FINISH CONDITION AS REQUIRED.
13. PROVIDE APPROPRIATE TRANSITION STRIPS BETWEEN DISSIMILAR FLOORING MATERIALS AT VERTICAL AND/OR HORIZONTAL APPLICATIONS.
14. CARPET EDGES SHALL BE CAPTURED BY NOSING, NOSING SHALL BE MITERED AT ALL OUTSIDE AND INSIDE CORNER CONDITIONS. ALL EDGES OF CARPET SHALL BE SEALED WITH A SEAM SEALER.
15. FLOORING CONTRACTOR SHALL INSTALL INSERTS TO MATCH ADJACENT FLOORING MATERIAL AT ALL ELECTRICAL FLOOR BOX COVERS AS REQUIRED.

ROOM FINISH MATERIAL LEGEND



WINDOW TREATMENTS

WT

NO.	REVISION	DATE
1	ADDENDUM NO. 1	08/31/23
	ISSUED FOR BID	08/23/23

WTAARCH.COM

WTA ARCHITECTS

100 S Jefferson Ave, Suite 601
Saginaw, Michigan 48607
989 752 8107

PROJECT TITLE

RENOVATION AND ADDITION:
MIDLAND COUNTY ESA

MIDLAND, MICHIGAN

SHEET TITLE

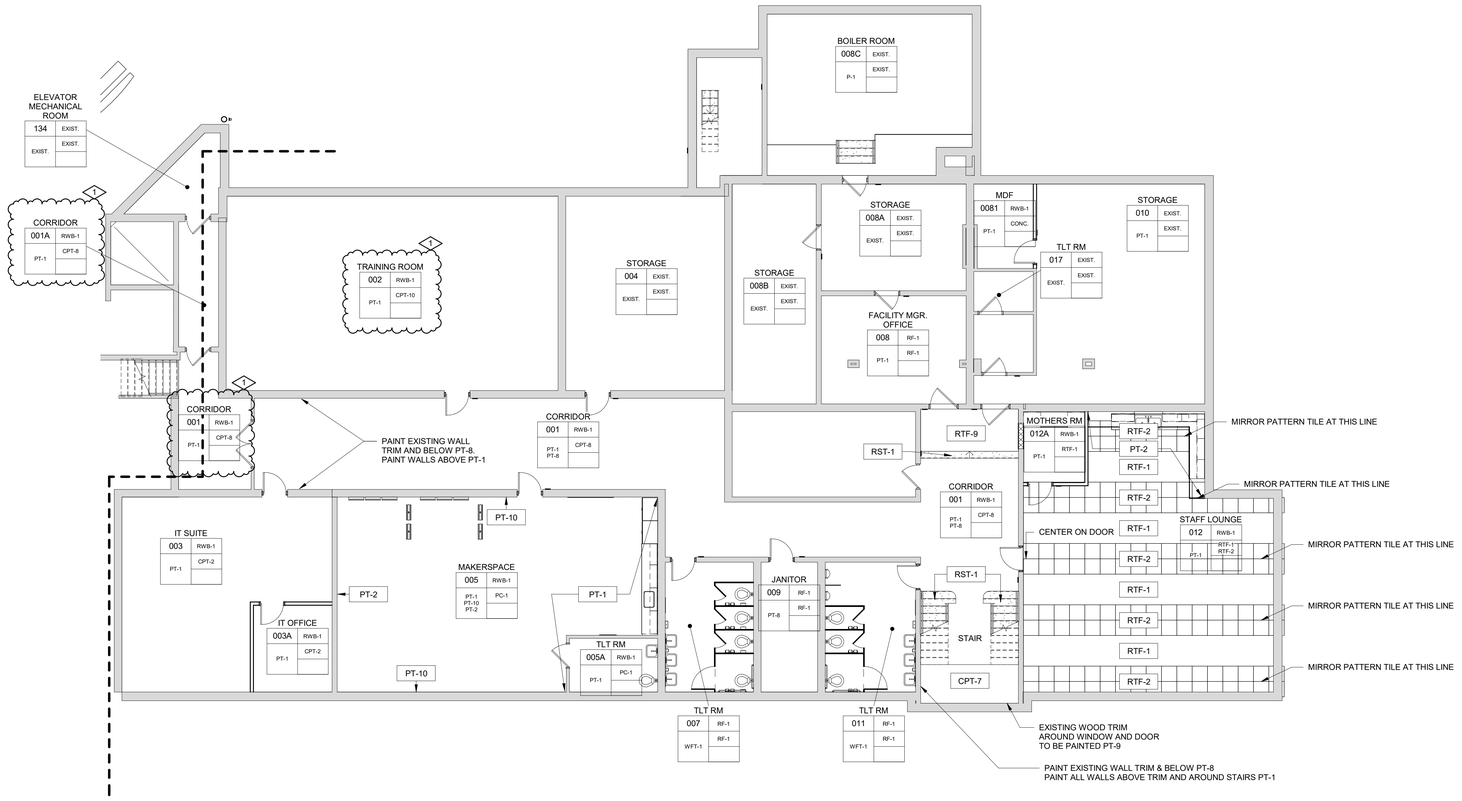
FINISH SCHEDULES AND LEGENDS

PROJECT NUMBER 2022006.1

PROJECT DATE AUGUST 23, 2023

CHECKED BY JMJ

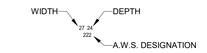
SHEET NUMBER A3.00



1 A3.01 LOWER LEVEL - AREA A
SCALE: 1/8" = 1'-0"

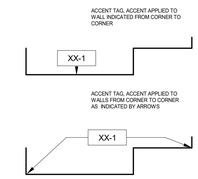
INTERIOR GENERAL NOTES:

1. AT STUD WALL LOCATIONS PROVIDE BLOCKING AS REQUIRED FOR ALL WALL MOUNTED ITEMS, INCLUDING BUT NOT LIMITED TO: GRAB BARS, MIRRORS, DISPENSERS, ETC. (REFER TO MFR. RECOMMENDATIONS.
2. ALL NEW CASEWORK TO HAVE HIGH PRESSURE LAMINATE EXTERIOR AND MELAMINE LAMINATE INTERIOR. UNLESS OTHERWISE NOTED.
3. ALL FURNITURE THAT IS NOT BUILT-IN IS NOT PART OF THE SCOPE OF THIS PROJECT.
4. REFER TO FINISH MATERIAL SCHEDULE FOR SPECIFIC MANUFACTURER, STYLE, COLOR & SIZE INFORMATION
5. REFER TO REFLECTED CEILING PLANS FOR CEILING TYPES, HEIGHTS AND FINISH INFORMATION
6. AT CERAMIC TILE LOCATIONS, INSTALLER TO USE APPROPRIATE TROWEL TO ACCOMMODATE DIFFERENT TILE THICKNESSES
7.
8. PROVIDE RESILIENT BASE AT TOE KICK OF ALL CASEWORK AND BEHIND ALL MOVABLE EQUIPMENT/APPLIANCES, WHEN SCHEDULED WITHIN A ROOM.
9. TYPICAL CASE WORK NOTATION EXAMPLE



10. ALL CASEWORK LOCKABLE UNLESS OTHERWISENOTED (DOORS AND DRAWERS).
11. ALL WALL MOUNTED MECHANICAL EQUIPMENT (DIFFUSERS, GRILLES, ETC) AND ELECTRICAL EQUIPMENT (PANELS, ETC) SHALL BE PAINTED TO MATCH THE ADJACENT WALL COLOR. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR QUANTITIES AND LOCATIONS.
12. WHERE REMOVAL OR MODIFICATION TO A FINISH MATERIAL IS SHOWN, BUT NEW FINISHES ARE NOT SCHEDULED, PATCH AND REPAIR TO MATCH EXISTING FINISH CONDITION AS REQUIRED.
13. PROVIDE APPROPRIATE TRANSITION STRIPS BETWEEN DISSIMILAR FLOORING MATERIALS AT VERTICAL AND/OR HORIZONTAL APPLICATIONS.
14. CARPET EDGES SHALL BE CAPTURED BY NOSING, NOSING SHALL BE MITERED AT ALL OUTSIDE AND INSIDE CORNER CONDITIONS. ALL EDGES OF CARPET SHALL BE SEALED WITH A SEAM SEALER.
15. FLOORING CONTRACTOR SHALL INSTALL INSERTS TO MATCH ADJACENT FLOORING MATERIAL AT ALL ELECTRICAL FLOOR BOX COVERS AS REQUIRED.

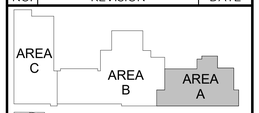
ROOM FINISH MATERIAL LEGEND



WINDOW TREATMENTS

WT

NO.	REVISION	DATE
1	ADDENDUM NO. 1	08/31/23
	ISSUED FOR BID	08/23/23



KEY PLAN
NORTH NO SCALE

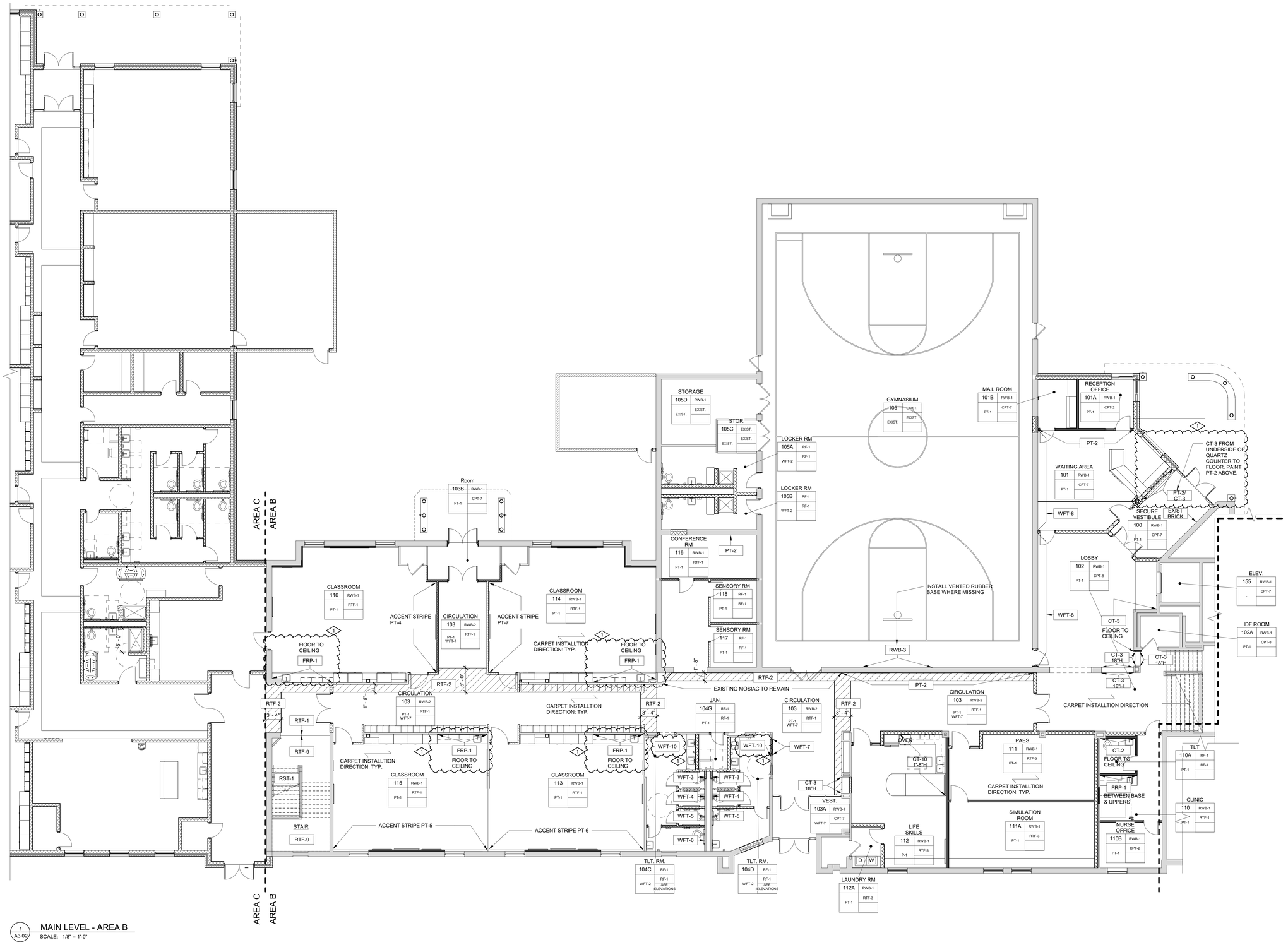
WTAARCH.COM
WTA ARCHITECTS
100 S Jefferson Ave, Suite 601
Saginaw, Michigan 48607
989 752 8107

PROJECT TITLE
RENOVATION AND ADDITION:
MIDLAND COUNTY ESA

MIDLAND, MICHIGAN

SHEET TITLE
ROOM FINISH PLANS - AREA A - LOWER LEVEL

PROJECT NUMBER 2022006.1
PROJECT DATE AUGUST 23, 2023
CHECKED BY JMJ
SHEET NUMBER A3.01



1 A3.02 MAIN LEVEL - AREA B
SCALE: 1/8" = 1'-0"

INTERIOR GENERAL NOTES:

1. AT STUD WALL LOCATIONS PROVIDE BLOCKING AS REQUIRED FOR ALL WALL MOUNTED ITEMS, INCLUDING BUT NOT LIMITED TO: GRAB BARS, MIRRORS, DISPENSERS, ETC. (REFER TO MFR. RECOMMENDATIONS.
2. ALL NEW CASEWORK TO HAVE HIGH PRESSURE LAMINATE EXTERIOR AND MELAMINE LAMINATE INTERIOR. UNLESS OTHERWISE NOTED.
3. ALL FURNITURE THAT IS NOT BUILT-IN IS NOT PART OF THE SCOPE OF THIS PROJECT.
4. REFER TO FINISH MATERIAL SCHEDULE FOR SPECIFIC MANUFACTURER, STYLE, COLOR & SIZE INFORMATION
5. REFER TO REFLECTED CEILING PLANS FOR CEILING TYPES, HEIGHTS AND FINISH INFORMATION
6. AT CERAMIC TILE LOCATIONS, INSTALLER TO USE APPROPRIATE TROWEL TO ACCOMMODATE DIFFERENT TILE THICKNESSES
7.
8. PROVIDE RESILIENT BASE AT TOE KICK OF ALL CASEWORK AND BEHIND ALL MOVABLE EQUIPMENT/APPLIANCES, WHEN SCHEDULED WITHIN A ROOM.
9. TYPICAL CASE WORK NOTATION EXAMPLE

10. ALL CASEWORK LOCKABLE UNLESS OTHERWISENOTED (DOORS AND DRAWERS).
11. ALL WALL MOUNTED MECHANICAL EQUIPMENT (DIFFUSERS, GRILLES, ETC) AND ELECTRICAL EQUIPMENT (PANELS, ETC) SHALL BE PAINTED TO MATCH THE ADJACENT WALL COLOR. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR QUANTITIES AND LOCATIONS.
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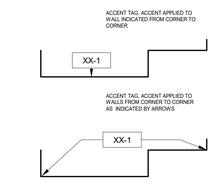
13. PROVIDE APPROPRIATE TRANSITION STRIPS BETWEEN DISSIMILAR FLOORING MATERIALS AT VERTICAL AND/OR HORIZONTAL APPLICATIONS.
14. CARPET EDGES SHALL BE CAPTURED BY NOSING, NOSING SHALL BE MITERED AT ALL OUTSIDE AND INSIDE CORNER CONDITIONS. ALL EDGES OF CARPET SHALL BE SEALED WITH A SEAM SEALER.
15. FLOORING CONTRACTOR SHALL INSTALL INSERTS TO MATCH ADJACENT FLOORING MATERIAL AT ALL ELECTRICAL FLOOR BOX COVERS AS REQUIRED.

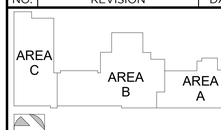
ROOM FINISH MATERIAL LEGEND



WINDOW TREATMENTS

WT

NO.	REVISION	DATE
1	ADDENDUM NO. 1	08/31/23
	ISSUED FOR BID	08/23/23



KEY PLAN
NORTH NO SCALE

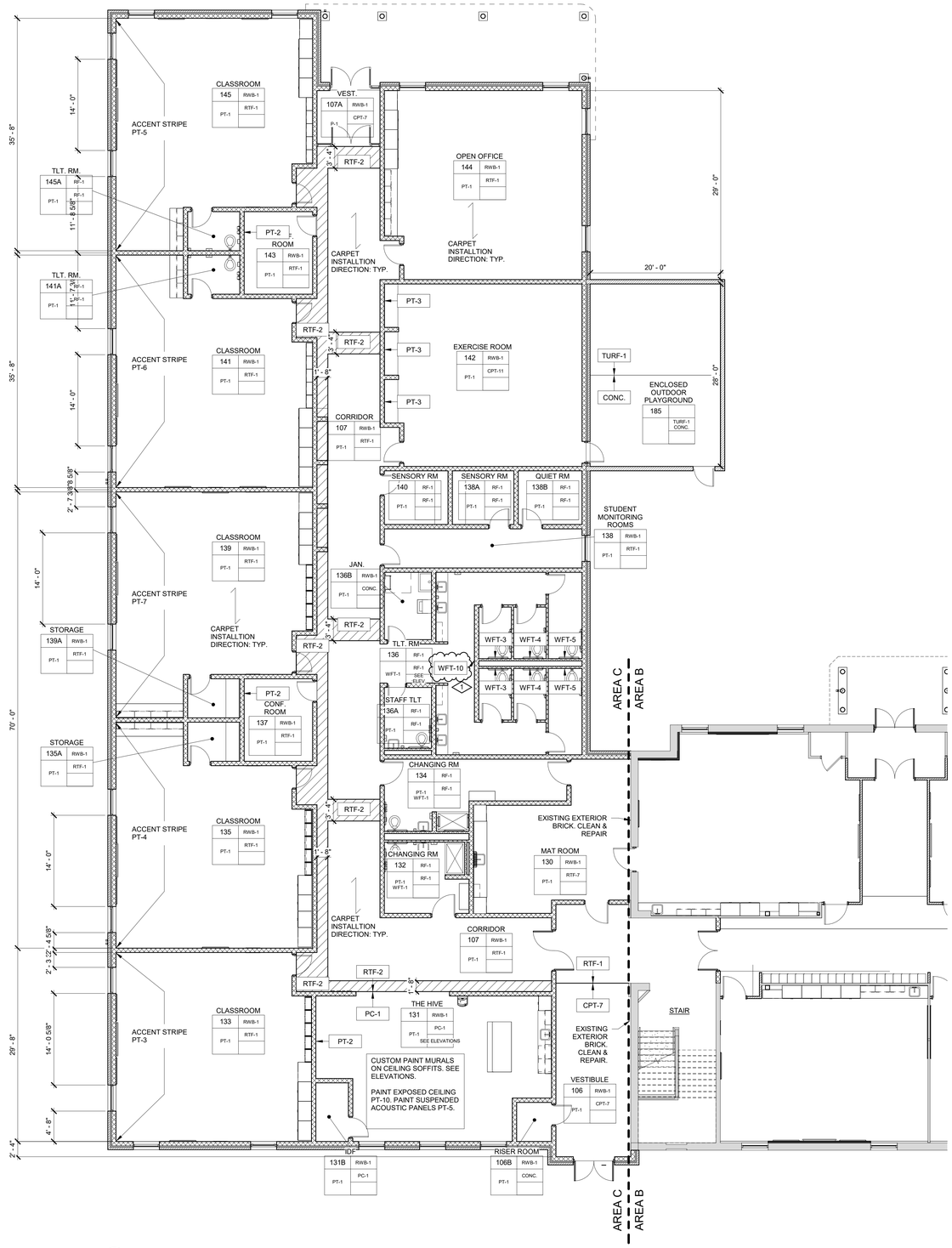
WTAARCH.COM
WTA ARCHITECTS
100 S Jefferson Ave, Suite 601
Saginaw, Michigan 48607
989 752 8107

PROJECT TITLE
RENOVATION AND ADDITION:
MIDLAND COUNTY ESA

MIDLAND, MICHIGAN

SHEET TITLE
ROOM FINISH PLANS - AREA B - MAIN LEVEL

PROJECT NUMBER 2022006.1
PROJECT DATE AUGUST 23, 2023
CHECKED BY JMJ
SHEET NUMBER A3.02



1 / A3.03 MAIN LEVEL - SOUTH WING - AREA C

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

INTERIOR GENERAL NOTES:

1. AT STUD WALL LOCATIONS PROVIDE BLOCKING AS REQUIRED FOR ALL WALL MOUNTED ITEMS, INCLUDING BUT NOT LIMITED TO: GRAB BARS, MIRRORS, DISPENSERS, ETC. (REFER TO MFR. RECOMMENDATIONS.
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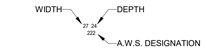
9. TYPICAL CASE WORK NOTATION EXAMPLE



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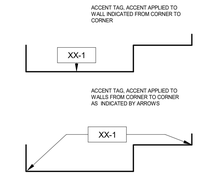
ROOM FINISH MATERIAL LEGEND



WINDOW TREATMENTS

WT

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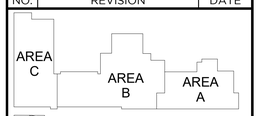
	ISSUED FOR BID	08/23/23



KEY PLAN

NORTH NO SCALE

WTAARCH.COM

WTA ARCHITECTS

100 S Jefferson Ave, Suite 601
Saginaw, Michigan 48607
989 752 8107

PROJECT TITLE

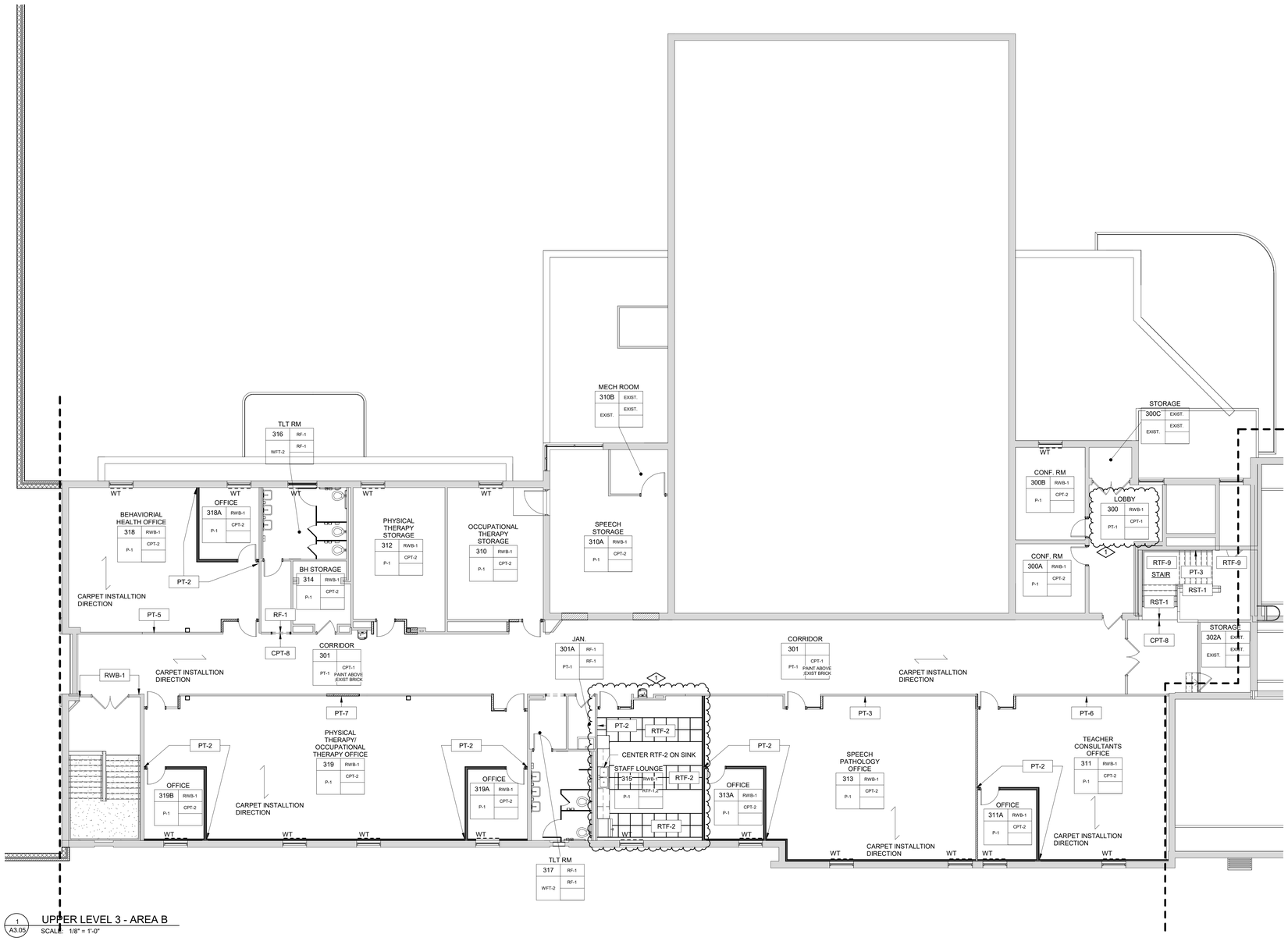
RENOVATION AND ADDITION:
MIDLAND COUNTY ESA

MIDLAND, MICHIGAN

SHEET TITLE

ROOM FINISH PLANS - AREA C - MAIN LEVEL

PROJECT NUMBER	SHEET NUMBER
2022006.1	A3.03
PROJECT DATE: AUGUST 23, 2023	
CHECKED BY: JMJ	



1 A3.05 UPPER LEVEL 3 - AREA B

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

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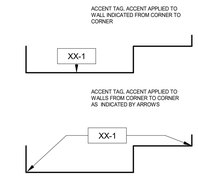
ROOM FINISH MATERIAL LEGEND



WINDOW TREATMENTS

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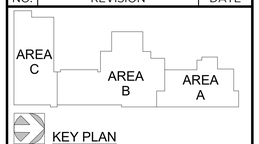


KEY PLAN

NORTH NO SCALE

WTAARCH.COM

WTA ARCHITECTS

100 S Jefferson Ave, Suite 601
Saginaw, Michigan 48607
989 752 8107

PROJECT TITLE

RENOVATION AND ADDITION:
MIDLAND COUNTY ESA

MIDLAND, MICHIGAN

SHEET TITLE

ROOM FINISH PLANS - AREA B - UPPER LEVEL 3

PROJECT NUMBER 2022006.1

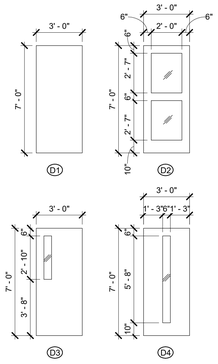
PROJECT DATE AUGUST 23, 2023

CHECKED BY JMJ

SHEET NUMBER A3.05

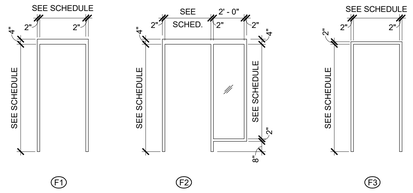
DOOR SCHEDULE

DOOR							FRAME		DETAILS			FIRE RATING			HW
NUMBER	PAIR	WIDTH	HEIGHT	THK.	MAT.	TYPE	MAT.	TYPE	HEAD	JAMB	SILL	LABEL	MIN.	REMARKS	SET
EXTERIOR GATE															
EX-01		3' - 0"	8' - 6"	1 3/4"											
LOWER LEVEL															
002.1		3' - 0"	7' - 0"	1 3/4"	SCW	D3	HM	F1	5/A3.10	6/A3.10	12/A3.00				35
003.1		3' - 0"	7' - 0"	1 3/4"	SCW	D3	HM	F3	5/A3.10	6/A3.10	12/A3.00				35
003A.1		3' - 0"	7' - 0"	1 3/4"	SCW	D3	HM	F3	7/A3.10	7/A3.10	-				04
004.1		3' - 0"	7' - 0"	1 3/4"	SCW	D1	HM	F3	5/A3.10	6/A3.10	11/A3.00				29
005.1		3' - 0"	7' - 0"	1 3/4"	SCW	D3	HM	F3	5/A3.10	6/A3.10	11/A3.00		45		01
007.1		3' - 0"	7' - 0"	1 3/4"	SCW	D1	HM	F1	5/A3.10	6/A3.10	10/A3.00				24
008.1		3' - 0"	7' - 0"	1 3/4"	HM	D1	HM	F1	7/A3.10	7/A3.10	9/A3.00				02
009.1		3' - 0"	7' - 0"	1 3/4"	SCW	D1	HM	F1	5/A3.10	6/A3.10	12/A3.00				29
011.1		3' - 0"	7' - 0"	1 3/4"	SCW	D1	HM	F1	5/A3.10	6/A3.10	12/A3.00				24
012.1		3' - 0"	7' - 0"	1 3/4"	SCW	D4	HM	F3	5/A3.10	6/A3.10	-				35
012A.1		3' - 0"	7' - 0"	1 3/4"	SCW	D1	HM	F3	7/A3.10	7/A3.10	12/A3.00				31
200.1	X	5' - 10"	6' - 10"	2 1/4"	ALUM	D2	ALUM	W5	SEE FRAME	SEE FRAME	SEE FRAME			CARD READER, ADA OPERATOR	
MAIN LEVEL															
100.1	X	6' - 0"	7' - 1"	2 1/4"	ALUM	D2	ALUM	W6	SEE FRAME	SEE FRAME	SEE FRAME			CARD READER, ADA OPERATOR	18
100.2	X	5' - 10"	7' - 0"	2 1/4"	ALUM	D2	ALUM	F1	5/A3.10	6/A3.10	-			CARD READER, ADA OPERATOR	20
101.1		3' - 0"	7' - 0"	2 1/4"	ALUM	D2	ALUM	F1	5/A3.10	6/A3.10	-			CARD READER, ADA OPERATOR, RELEASE BUTTON	22
101.3		3' - 0"	7' - 0"	1 3/4"	HM	D2	HM	F3	5/A3.10	6/A3.10	-			CARD READER, ADA OPERATOR, RELEASE BUTTON	23
101A.1		3' - 0"	7' - 0"	1 3/4"	SCW	D1	HM	F1	7/A3.10	7/A3.10	-				04
101B.1		3' - 0"	7' - 0"	1 3/4"	SCW	D1	HM	F1	7/A3.10	7/A3.10	-				14
102.1		8' - 8"	7' - 0"	0"	-	-	-	-	2/A3.12	2/A3.12	-			CASED OPENING	
103.1	X	6' - 0"	7' - 0"	2 1/4"	HM	D2	HM	F1	5/A3.10	6/A3.10	-				27
103A.1	X	6' - 2"	7' - 10"	2 1/4"	ALUM	D2	ALUM	W8	SEE FRAME	SEE FRAME	SEE FRAME			CARD READER, ADA OPERATOR	18
103A.2	X	6' - 0"	7' - 10"	2 1/4"	ALUM	D2	ALUM	WA	SEE FRAME	SEE FRAME	SEE FRAME			ADA OPERATOR	21
103B.1	X	6' - 0"	7' - 0"	2 1/4"	ALUM	D2	ALUM	F1	8/A3.10	8/A3.10	13/A3.00			CARD READER, ADA OPERATOR	18
103B.2	X	6' - 0"	7' - 0"	2 1/4"	ALUM	D2	ALUM	F1	3/A3.10	4/A3.10	12/A3.00			ADA OPERATOR	21
104C.1		3' - 0"	7' - 0"	0"	-	-	-	-	2/A3.12	2/A3.12	-			CASED OPENING	
104D.1		3' - 0"	7' - 0"	0"	-	-	-	-	2/A3.12	2/A3.12	-			CASED OPENING	
104E.1		2' - 8"	7' - 0"	1 3/4"	PHEN.	D1	HM	F3	3/A3.10	4/A3.10	-			VISUAL OCCUPANCY INDICATOR	13
104E.2		2' - 8"	7' - 0"	1 3/4"	PHEN.	D1	HM	F3	3/A3.10	4/A3.10	-			VISUAL OCCUPANCY INDICATOR	13
104E.3		2' - 8"	7' - 0"	1 3/4"	PHEN.	D1	HM	F3	3/A3.10	4/A3.10	-			VISUAL OCCUPANCY INDICATOR	13
104E.4		2' - 8"	7' - 0"	1 3/4"	PHEN.	D1	HM	F3	3/A3.10	4/A3.10	-			VISUAL OCCUPANCY INDICATOR	15
104F.1		2' - 8"	7' - 0"	1 3/4"	PHEN.	D1	HM	F3	3/A3.10	4/A3.10	-			VISUAL OCCUPANCY INDICATOR	13
104F.2		2' - 8"	7' - 0"	1 3/4"	PHEN.	D1	HM	F3	3/A3.10	4/A3.10	-			VISUAL OCCUPANCY INDICATOR	13
104F.3		2' - 8"	7' - 0"	1 3/4"	PHEN.	D1	HM	F3	3/A3.10	4/A3.10	-			VISUAL OCCUPANCY INDICATOR	15
104G.1		2' - 8"	7' - 0"	1 3/4"	HM	D1	HM	F1	5/A3.10	6/A3.10	-				02
105.1		3' - 0"	7' - 0"	1 3/4"	HM	D1	HM	F1	11/A3.10	12/A3.10	9/A3.00				28
105A.1		3' - 0"	7' - 0"	1 3/4"	HM	D1	HM	F1	11/A3.10	12/A3.10	9/A3.00				12
105B.1		3' - 0"	7' - 0"	1 3/4"	HM	D1	HM	F1	11/A3.10	12/A3.10	9/A3.00				12
106.1	X	6' - 0"	7' - 0"	2 1/4"	ALUM	D2	ALUM	F1	13/A3.10	14/A3.10	13/A3.00			CARD READER, ADA OPERATOR	18
106.2	X	6' - 0"	7' - 0"	1 3/4"	HM	D1	HM	F3	5/A3.10	6/A3.10	-		90		08
106B.1		3' - 0"	7' - 0"	1 3/4"	HM	D1	HM	F1	5/A3.10	6/A3.10	-				
107.1	X	6' - 0"	7' - 0"	1 3/4"	HM	D1	HM	F1	5/A3.10	6/A3.10	-		90	BI-SWING	09
107A.1	X	6' - 1"	7' - 0 3/8"	2 1/4"	ALUM	D2	ALUM	W7	SEE FRAME	SEE FRAME	SEE FRAME				33
107A.2	X	6' - 0"	7' - 11"	2 1/4"	ALUM	D2	ALUM	WB	SEE FRAME	SEE FRAME	SEE FRAME				34
110.1		3' - 0"	7' - 0"	1 3/4"	HM	D3	HM	F1	5/A3.10	6/A3.10	-				16
110A.1		3' - 0"	7' - 0"	1 3/4"	HM	D3	HM	F1	3/A3.10	4/A3.10	-				38
110B.1		3' - 0"	7' - 0"	1 3/4"	HM	D1	HM	F1	3/A3.10	4/A3.10	12/A3.00				04
111.1		3' - 6"	7' - 0"	1 3/4"	HM	D3	HM	F2	5/A3.10	6/A3.10	-				35
111A.1		3' - 6"	7' - 0"	1 3/4"	HM	D3	HM	F1	5/A3.10	6/A3.10	-				14
112.1		3' - 6"	7' - 0"	1 3/4"	HM	D3	HM	F2	5/A3.10	6/A3.10	-				35
112A.1		3' - 0"	7' - 0"	1 3/4"	HM	D1	HM	F3	5/A3.10	6/A3.10	-				05
113.1		3' - 6"	7' - 0"	1 3/4"	HM	D2	HM	F1	3/A3.10	4/A3.10	-			BOOT SYSTEM	35
114.1		3' - 6"	7' - 0"	1 3/4"	HM	D3	HM	F1	3/A3.10	4/A3.10	-			BOOT SYSTEM	35
115.1		3' - 6"	7' - 0"	1 3/4"	HM	D2	HM	F1	3/A3.10	4/A3.10	-			BOOT SYSTEM	35
116.1		3' - 6"	7' - 0"	1 3/4"	HM	D3	HM	F3	3/A3.10	4/A3.10	-			BOOT SYSTEM	10
117.1		3' - 0"	7' - 0"	1 3/4"	HM	D3	HM	F1	3/A3.10	4/A3.10	11/A3.00			LOCK UP HARDWARE	06
118.1		3' - 0"	7' - 0"	1 3/4"	HM	D3	HM	F1	3/A3.10	4/A3.10	11/A3.00			LOCK UP HARDWARE	06
120.1		3' - 0"	7' - 0"	1 3/4"	HM	D3	HM	F1	3/A3.10	4/A3.10	-				35
130.1		3' - 6"	7' - 0"	1 3/4"	HM	D3	HM	F3	5/A3.10	6/A3.10	-		90		32
130.2		3' - 6"	7' - 0"	1 3/4"	HM	D3	HM	F3	15/A3.10	16/A3.10	-		90		17
131.1		3' - 0"	7' - 0"	1 3/4"	HM	D3	HM	F1	5/A3.10	6/A3.10	-				30
131B.1		3' - 0"	7' - 0"	1 3/4"	HM	D1	HM	F1	5/A3.10	6/A3.10	-				
132.1		3' - 6"	7' - 0"	1 3/4"	HM	D3	HM	F3	5/A3.10	6/A3.10	10/A3.00				11
133.1		3' - 0"	7' - 0"	1 3/4"	HM	D3	HM	F1	5/A3.10	6/A3.10	-			BOOT SYSTEM	35
134.1		3' - 6"	7' - 0"	1 3/4"	HM	D3	HM	F3	5/A3.10	6/A3.10	10/A3.00				19
134.2		3' - 6"	7' - 0"	1 3/4"	HM	D1	HM	F3	5/A3.10	6/A3.10	10/A3.00				12
135.1		3' - 0"	7' - 0"	1 3/4"	HM	D3	HM	F1	5/A3.10	6/A3.10	-		45	BOOT SYSTEM	01
135A.1		3' - 0"	7' - 0"	1 3/4"	HM	D3	HM	F1	5/A3.10	6/A3.10	-				05
136.1		3' - 0"	7' - 0"	1 3/4"	PHEN.	D1	HM	F1	3/A3.10	4/A3.10	-			VISUAL OCCUPANCY INDICATOR	15
136.2		3' - 0"	7' - 0"	1 3/4"	PHEN.	D1	HM	F1	3/A3.10	4/A3.10	-			VISUAL OCCUPANCY INDICATOR	15
136.3		3' - 0"	7' - 0"	1 3/4"	PHEN.	D1	HM	F1	3/A3.10	4/A3.10	-			VISUAL OCCUPANCY INDICATOR	15
136.4		3' - 0"	7' - 0"	1 3/4"	PHEN.	D1	HM	F1	3/A3.10	4/A3.10	-			VISUAL OCCUPANCY INDICATOR	15
136.5		3' - 0"	7' - 0"	1 3/4"	PHEN.	D1	HM	F1	3/A3.10	4/A3.10	-			VISUAL OCCUPANCY INDICATOR	15
136.6		3' - 0"	7' - 0"	1 3/4"	PHEN.	D1	HM	F1	3/A3.10	4/A3.10	-			VISUAL OCCUPANCY INDICATOR	15
136A.1		2' - 8"	7' - 0"	1 3/4"	HM	D1	HM	F3	5/A3.10	6/A3.10	-		45		12
136B.1		2' - 8"	7' - 0"	1 3/4"	HM	D1	HM	F3	5/A3.10	6/A3.10	-			RF TO CONC	02
137.1		3' - 0"	7' - 0"	1 3/4"	HM	D3	HM	F1	5/A3.10	6/A3.10	-				30
138.1		3' - 0"	7' - 0"	1 3/4"	HM	D3	HM	F1	5/A3.10	6/A3.10	-				30
138A.1		3' - 0"	7' - 0"	1 3/4"	HM	D3	HM	F1	5/A3.10	6/A3.10	9/A3.00			LOCK UP HARDWARE	06
138B.1		3' - 0"	7' - 0"	1 3/4"	HM	D3	HM	F1	5/A3.10	6/A3.10	9/A3.00			LOCK UP HARDWARE	06
139.1		3' - 0"	7' - 0"	1 3/4"	HM	D3	HM	F1	5/A3.10	6/A3.10	-		45	BOOT SYSTEM, BOOT SYSTEM	01
139A.1		3' - 0"	7' - 0"	1 3/4"	HM	D3	HM	F1	5/A3.10	6/A3.10	-				05
140.1		3' - 0"	7' - 0"	1 3/4"	HM	D3	HM	F1	5/A3.10	6/A3.10	9/A3.00			LOCK UP HARDWARE	06
141.1		3' - 0"	7' - 0"	1 3/4"	HM	D3	HM	F1	5/A3.10	6/A3.10	-			BOOT SYSTEM	35
141A.1		3' - 0"	7' - 0"	1 3/4"	HM	D3	HM	F1	5/A3.10	6/A3.10	--				05
142.1		3' - 0"	7' - 0"	1 3/4"	HM	D3	HM	F1	5/A3.10	6/A3.10	-			BOOT SYSTEM	35
142.2		3' - 0"	7' - 0"	1 3/4"	HM	D3	HM	F1	13/A3.10	14/A3.10	9/A3.00				07
144.1		3' - 0"	7' - 0"	1 3/4"	HM	D3	HM	F1	5/A3.10	6/A3.10	-				35
145.1		3' - 0"	7' - 0"	1 3/4"	HM	D3	HM	F1	5/A3.10	6/A3.10	-			BOOT SYSTEM	35
145A.1		3' - 0"	7' - 0"	1 3/4"	HM	D3	HM	F1	5/A3.10	6/A3.10	-				05
UPPER LEVEL 2															
201A.1		3' - 0"	7' - 0"	1 3/4"	SCW	D1	HM	F1	5/A3.10	6/A3.10	-				02
203.1		3' - 0"	7' - 0"	1 3/4"	SCW	D1	HM	F1	5/A3.10	6/A3.10	-				12
204.1		3' - 0"	7' - 0"	1 3/4"	SCW	D3	HM	F1	5/A3.10	6/A3.10	-				01
204.2		3' - 0"	7' - 0"	1 3/4"	SCW	D3	HM	F1	5/A3.10	6/A3.10	-				03
204.3		4' - 0"	7' - 0"	0"	-	-	-	-	2/A3.12	2/A3.12	-			CASED OPENING	
204.4		4' - 0"	7' - 0"	0"	-	-	-	-	2/A3.12	2/A3.12	-			CASED OPENING	
205.1		3' - 0"	7' - 0"	1 3/4"	SCW	D1	HM	F1	5/A3.10	6/A3.10	-				37
210.1		3' - 0"	7' - 0"	1 3/4"	SCW	D3	HM	F1	5/A3.10	6/A3.10	-				01
211.1		3' - 0"	7' - 0"	1 3/4"	SCW	D3	HM	F1	5/A3.10	6/A3.10	-			BOOT SYSTEM	36
211A.1		3' - 0"	7' - 0"	1 3/4"	SCW	D3	HM	F1	5/A3.10	6/A3.10	-				04
212.1		3' - 0"	7' - 0"	1 3/4"	SCW	D3	HM	F1	5/A3.10	6/A3.10	-				01
212A.1		3' - 0"	7' - 0"	1 3/4"	SCW	D3	HM	F1	7/A3.10	7/A3.10	-			BOOT SYSTEM	26
212B.1		3' - 0"	7' - 0"	1 3/4"	SCW	D3	HM	F1	5/A3.10	6/A3.10	-			BOOT SYSTEM	36
212D.1		3' - 0"	7' - 0"	1 3/4"	SCW	D3	HM	F1	7/A3.10	7/A3.10	-				04
213.1		3' - 0"	7' - 0"	1 3/4"	SCW	D3	HM	F1	5/A3.10	6/A3.10	-			BOOT SYSTEM	36
213A.1		3' - 0"	7' - 0"	1 3/4"	SCW	D3	HM	F1	5/A3.10	6/A3.10	-				04
215.1		3' - 0"	7' - 0"	1 3/4"	SCW	D3	HM	F1	5/A3.10	6/A3.10	-				36
215B.1		3' - 0"	7' - 0"	1 3/4"	SCW	D3	HM	F1	3/A3.10	4/A3.10	-				04
215C.1		3' - 0"	7' - 0"	1 3/4"	SCW	D1	HM	F1	7/A3.10	7/A3.10	-				05
220.1		3' - 0"	7' - 0"	1 3/4"	SCW	D3	HM	F1	7/A3.10	7/A3.10	-			BOOT SYSTEM	36
222.1		3' - 0"	7' - 0"	1 3/4"	SCW	D3	HM	F1	7/A3.10	7/A3.10	-			BOOT SYSTEM	36
223.1		3' - 0"	7' - 0"	1 3/4"	SCW	D3	HM	F1	7/A3.10	7/A3.10	-			BOOT SYSTEM	36
224.1		3' - 0"	7' - 0"	1 3/4"	SCW	D3	HM	F1	7/A3.10	7/A3.10	-			BOOT SYSTEM	36
225.1		3' - 0"	7' - 0"	1 3/4"	SCW	D3	HM	F1	7/A3.10	7/A3.10	-			BOOT SYSTEM	36
226.1		3' - 0"	7' - 0"	1 3/4"	SCW	D3	HM	F1	7/A3.10	7/A3.10	-			BOOT SYSTEM	36
227.1		3' - 0"	7' - 0"	1 3/4"	SCW	D3	HM	F1	7/A3.10	7/A3.10	-			BOOT SYSTEM	36
228.1		3' - 0"	7' - 0"	1 3/4"	SCW	D3	HM	F1	7/A3.10	7/A3.10	-			BOOT SYSTEM	36
229.1		3' - 0"	7' - 0"	1 3/4"	SCW	D3	HM	F1	7/A3.10	7/A3.10	-			BOOT SYSTEM	36
230.1		3' - 0"	7' - 0"	1 3/4"	SCW	D3	HM	F1	7/A3.10	7/A3.10	-			BOOT SYSTEM	36
231.1		3' - 0"	7' - 0"	1 3/4"	SCW	D3	HM	F1	7/A3.10	7/A3.10	-			BOOT SYSTEM	36
UPPER LEVEL 3															
300A.1		3' - 0"	7' - 0"	1 3/4"	HM	D3	HM	F3	5/A3.10	6/A3.10	-				04
300B.1		3' - 0"	7' - 0"	1 3/4"	HM	D3	HM	F3	5/A3.10	6/A3.10	-				04
310.1		3' - 0"	7' - 0"	1 3/4"	HM	D1	HM	F1	3/A3.10	4/A3.10	-				29
310B.1		4' - 0"	7' - 0"	1 3/4"	HM	D1	HM	F3	3/A3.10	4/A3.10	-				02
311.1		3' - 0"	7' - 0"	1 3/4"	HM	D3	HM	F2	3/A3.10	4/A3.10	-				35
311A.1		3' - 0"	7' - 0"	1 3/4"	HM	D3	HM	F1	7/A3.10	7/A3.10	-			BOOT SYSTEM	36
312.1		3' - 0"	7' - 0"	1 3/4"	HM	D3	HM	F1	3/A3.10	4/A3.10	-				29
313.1		3' - 0"	7' - 0"	1 3/4"	HM	D3	HM	F2	3/A3.10	4/A3.10	-				35
313A.1		3' - 0"	7' - 0"	1 3/4"	HM	D3	HM	F1	7/A3.10	7/A3.10	-			BOOT SYSTEM	36
315.1		3' - 0"	7' - 0"	1 3/4"	HM	D3	HM	F2	3/A3.10	4/A3.10	-				35
316.1		3' - 0"	7' - 0"	1 3/4"	HM	D1	HM	F1	3/A3.10	4/A3.10	-				25
316.2		3' - 0"	7' - 0"	0"	-	-	-	-	2/A3.12	2/A3.12	-			CASED OPENING	
317.1		3' - 0"	7' - 0"	1 3/4"	HM	D1	HM	F1	3/A3.10	4/A3.10	-				25
317.2		3' - 0"	7' - 0"	0"	-	-	-	-	2/A3.12	2/A3.12	-			CASED OPENING	
318.1		3' - 0"	7' - 0"	1 3/4"	HM	D3	HM	F1	3/A3.10	4/A3.10	-				35
318A.1		3' - 0"	7' - 0"	1 3/4"	HM	D3	HM	F1	7/A3.10	7/A3.10	-			BOOT SYSTEM	36
319.1		3' - 0"	7' - 0"	1 3/4"	HM	D3	HM	F2	3/A3.10	4/A3.10	-				35
319.2		3' - 0"	7' - 0"	1 3/4"	HM	D3	HM	F2	3/A3.10	4/A3.10	-				35
319A.1		3' - 0"	7' - 0"	1 3/4"	HM	D3	HM	F1	7/A3.10	7/A3.10	-			BOOT SYSTEM	36
319B.1		3' - 0"	7' - 0"	1 3/4"	HM	D3	HM	F1	7/A3.10	7/A3.10	-			BOOT SYSTEM	36



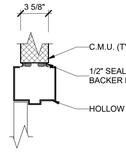
DOOR TYPES

1/4" = 1'-0"



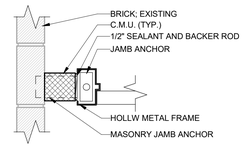
FRAME TYPES

1/4" = 1'-0"



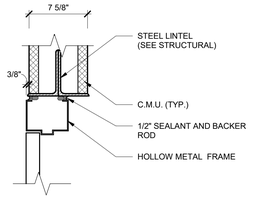
3 A3.10 **H.M. DOOR HEAD @ 4" BLOCK/BRICK**

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



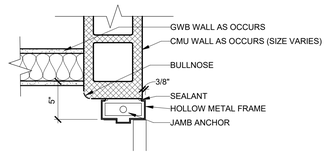
4 A3.10 **H.M. DOOR JAMB @ 4" BLOCK/BRICK**

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



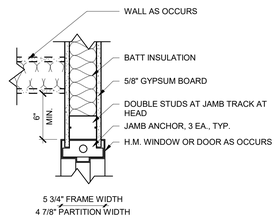
5 A3.10 **H.M. DOOR HEAD @ C.M.U.**

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



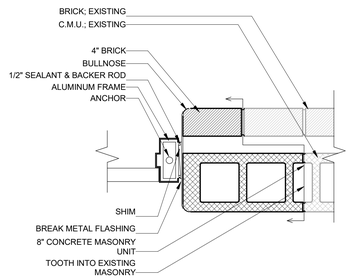
6 A3.10 **H.M. DOOR JAMB @ CMU**

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



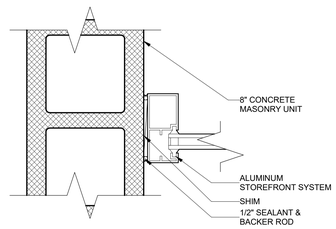
7 A3.10 **H.M. DOOR JAMB/HEAD @ MTL. STUD WALL**

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



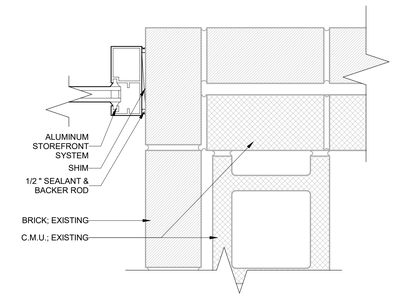
8 A3.10 **JAMB DETAIL @ ALUMINUM DOOR 104**

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



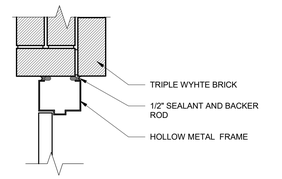
9 A3.10 **DETAIL @ VESTIBULE 107A**

SCALE: 3" = 1'-0"



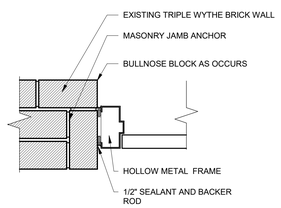
10 A3.10 **PLAN DETAIL @ SUGNET ENTRANCE**

SCALE: 3" = 1'-0"



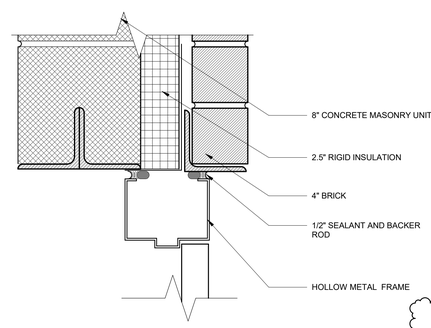
11 A3.10 **H.M. DOOR HEAD @ TRIPLE WYTHE BRICK**

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



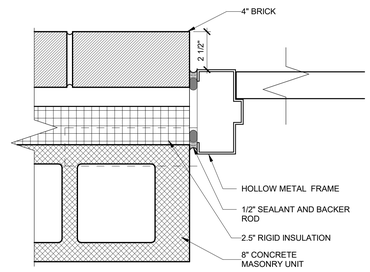
12 A3.10 **H.M. DOOR JAMB @ TRIPLE WYTHE BRICK**

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



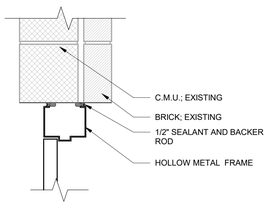
13 A3.10 **H.M. DOOR HEAD @ EXTERIOR ADDITION WALL**

SCALE: 3" = 1'-0"



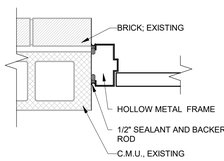
14 A3.10 **H.M. DOOR JAMB @ EXTERIOR ADDITION WALL**

SCALE: 3" = 1'-0"



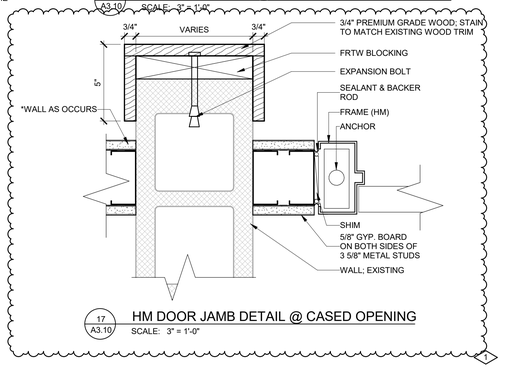
15 A3.10 **H.M. DOOR HEAD @ EXISTING EXTERIOR WALL**

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



16 A3.10 **H.M. DOOR JAMB @ EXISITING EXTERIOR WALL**

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



17 A3.10 **HM DOOR JAMB DETAIL @ CASED OPENING**

SCALE: 3" = 1'-0"

DOOR AND FRAME GENERAL NOTES:

1. GENERAL CONTRACTOR SHALL COORDINATE AND FIELD VERIFY ALL HOLLOW METAL FRAME DIMENSIONS PRIOR TO FABRICATION.
2. ALL DIMENSIONS INDICATE ROUGH OPENING DIMENSIONS.
3. REFER TO SPECIFICATIONS FOR GLASS TYPE DESCRIPTIONS.
4. ALL HOLLOW METAL FRAMES SHALL HAVE A 6" NOMINAL JAMB DEPTION UON. ALL FACE WIDTHS SHALL BE 2" UON.
5. SEE DETAILS 7/A3.10 FOR TYPICAL HEAD, JAMB, AND SILL DETAILS THAT OCCUR AT INTERIOR STUD PARTITIONS.
6. SEE DETAILS 5/3.10 AND 6/A3.10 FOR TYPICAL HEAD AND JAMB DETAILS THAT OCCUR AT INTERIOR MASONRY WALLS. LOCATE FRAMES AS FOLLOWS:
   A. CORRIDORS - JUSTIFY FRAMES 3/8" BEYOND THE SAME SIDE OF WALL AS DOOR.
   B. ROOM TO ROOM - JUSTIFY FRAMES 3/8" BEYOND THE SAME SIDE OF WALL AS DOOR.
7. INSTALL GLAZING ON THE CORRIDOR SIDE OF FRAMES AT CORRIDOR WINDOWS. INSTALL GLAZING ON THE SIDE OF THE LARGER ROOM AT GLAZING BETWEEN ROOMS. FOR ALL OTHER FRAMES VERIFY WITH ARCHITECT.
8. PROVIDE SEALANT AT JOINTS BETWEEN ALL DOOR AND WINDOW FRAMES AND ADJACENT MATERIALS (FIRE RATED SEALANT AT RATED FRAMES).
9. AT ALL DOORS AND FRAMES COORIDNATE SECURITY DEVICES SPECIFICATIONS AND ELECTRICAL DRAWINGS. PREP FRAMES FOR CONDUIT AND DEVICES AS REQUIRED.
10. PAINT ALL HOLLOW METAL DOORS & FRAMES PT-9

NO.	REVISION	DATE
1	ADDENDUM NO. 1	08/31/23
	ISSUED FOR BID	08/23/23

WTAARCH.COM

WTA ARCHITECTS

100 S Jefferson Ave, Suite 601
Saginaw, Michigan 48607
989 752 8107

PROJECT TITLE
RENOVATION AND ADDITION:
MIDLAND COUNTY ESA

MIDLAND, MICHIGAN

SHEET TITLE
DOOR AND FRAME SCHEDULE, DOOR DETAILS

PROJECT NUMBER
2022006.1

PROJECT DATE
AUGUST 23, 2023

CHECKED BY
JMJ

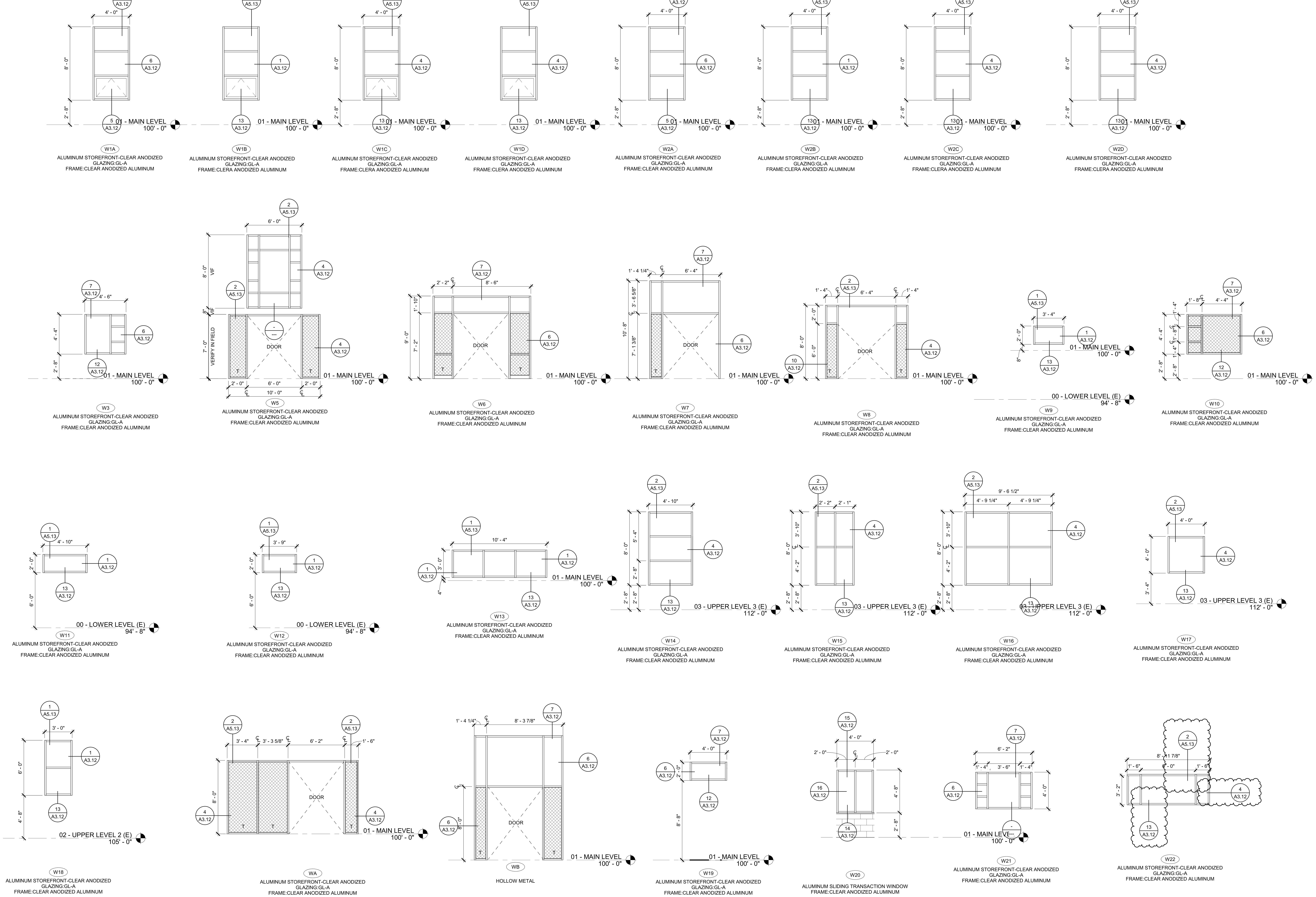
SHEET NUMBER
A3.10

REQUIRED BY CODE.

FRAME TYPES

INDICATES IMPACT RESISTANT FILM LOCATIONS.

T — INDICATES LOCATION OF TEMBERED GLASS



NO.	REVISION	DATE
1	ADDENDUM NO. 1	08/31/23
	ISSUED FOR BID	08/23/23

WTAARCH.COM

WTA ARCHITECTS

100 S Jefferson Ave, Suite 601
Saginaw, Michigan 48607
989 752 8107

PROJECT TITLE
RENOVATION AND ADDITION:
MIDLAND COUNTY ESA

MIDLAND, MICHIGAN

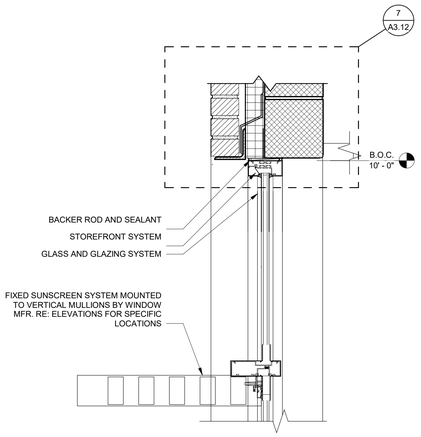
SHEET TITLE
FRAME ELEVATIONS

PROJECT NUMBER
2022006.1

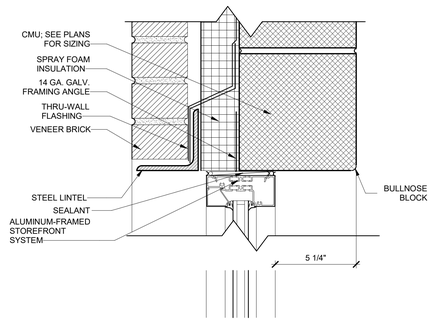
PROJECT DATE
AUGUST 23, 2023

CHECKED BY
JMJ

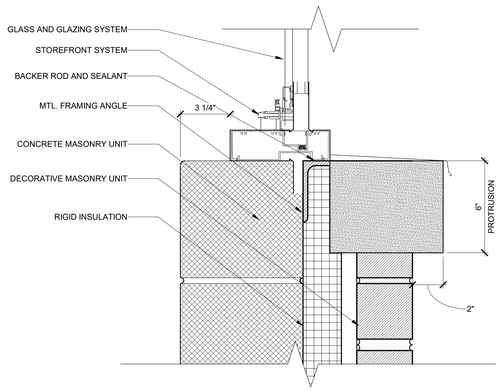
SHEET NUMBER
A3.11



9 A3.12 TYP. HEAD DETAIL @ STOREFRONT HEAD
SCALE: 1 1/2" = 1'-0"



7 A3.12 TYP. HEAD DETAIL @ NEW CMU
SCALE: 3" = 1'-0"



5 A3.12 TYP. STONE SILL DETAIL @ NEW CMU
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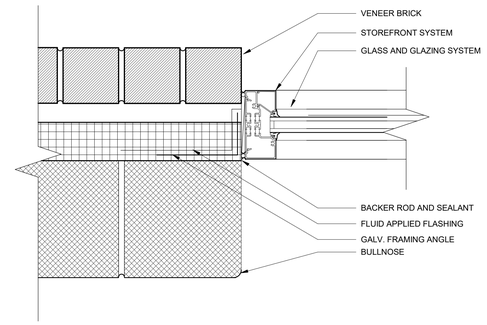

6 A3.12 TYP. JAMB DETAIL @ NEW CMU
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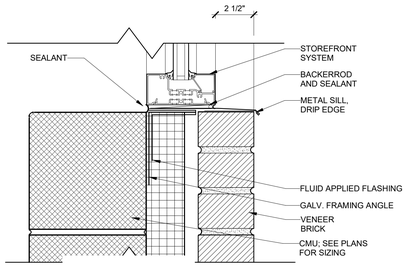

12 A3.12 TYP. SILL DETAIL @ NEW CMU
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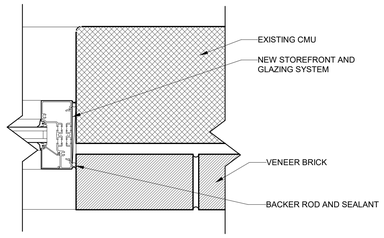
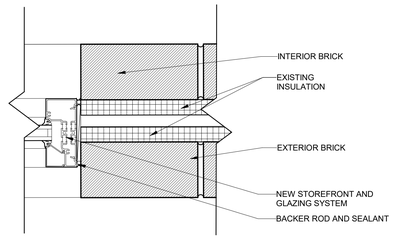


1 A3.12 TYP. JAMB DETAIL @ EXISTING BRICK-BLOCK
SCALE: 3" = 1'-0"



4 A3.12 TYP. JAMB DETAIL @ EXISTING BRICK
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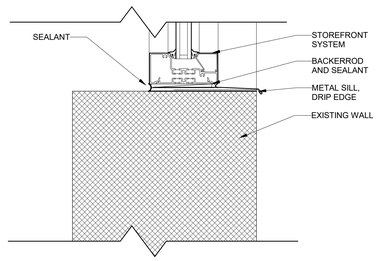
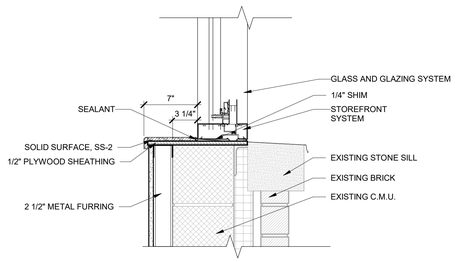
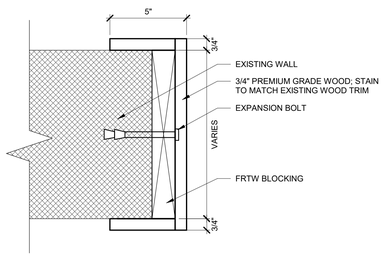


13 A3.12 TYP. SILL DETAIL @ EXISTING
SCALE: 3" = 1'-0"



8 A3.12 SOLID SURFACE SILL DETAIL
SCALE: 1 1/2" = 1'-0"



2 A3.12 JAMB DETAIL - WOOD CAP
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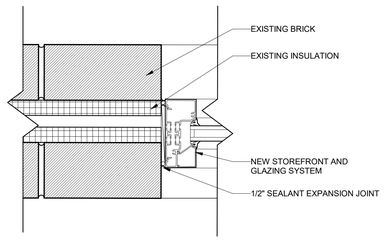

10 A3.12 JAMB @ W8 W/ 1/2" EXPANSION JOINT
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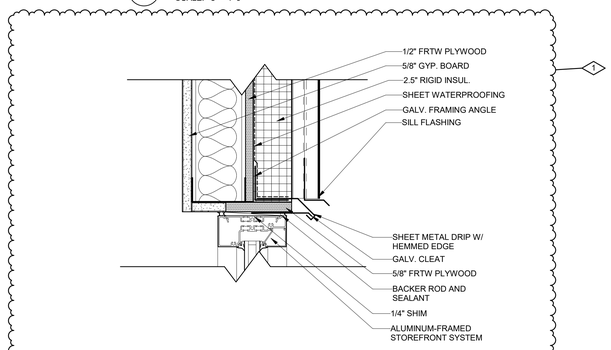
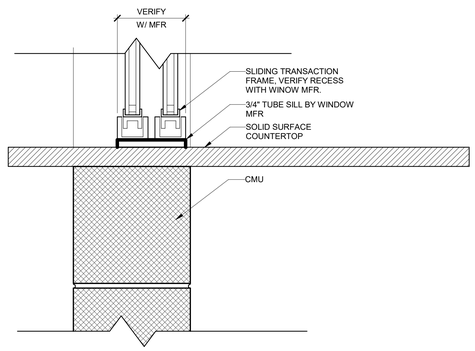
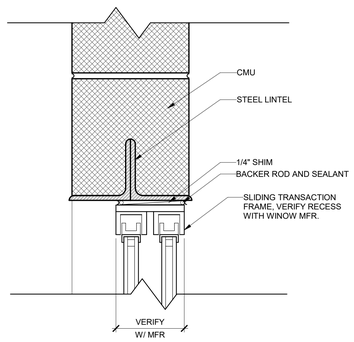


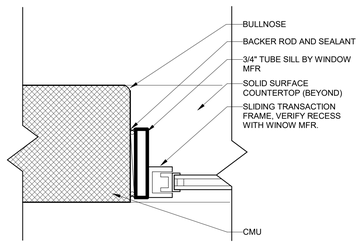
3 A3.12 HEAD DETAIL @ METAL PANEL
SCALE: 3" = 1'-0"



14 A3.12 SLIDING WINDOW SILL @ LOBBY
SCALE: 3" = 1'-0"



15 A3.12 SLIDING WINDOW HEAD @ LOBBY
SCALE: 3" = 1'-0"



16 A3.12 SLIDING WINDOW JAMB @ LOBBY
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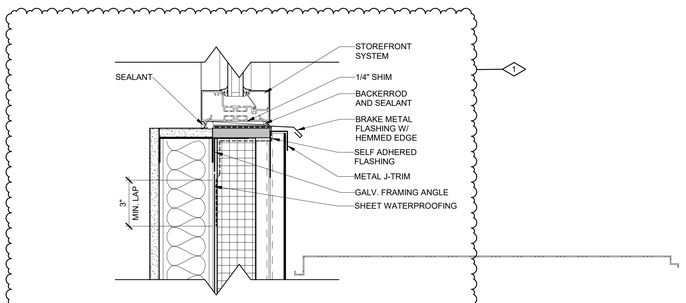

11 A3.12 SILL DETAIL @ METAL PANEL
SCALE: 3" = 1'-0"

NO.	REVISION	DATE
1	ADDENDUM NO. 1	08/31/23
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PROJECT TITLE
RENOVATION AND ADDITION:
MIDLAND COUNTY ESA

MIDLAND, MICHIGAN

SHEET TITLE
FRAME DETAILS

PROJECT NUMBER
2022006.1

PROJECT DATE
AUGUST 23, 2023

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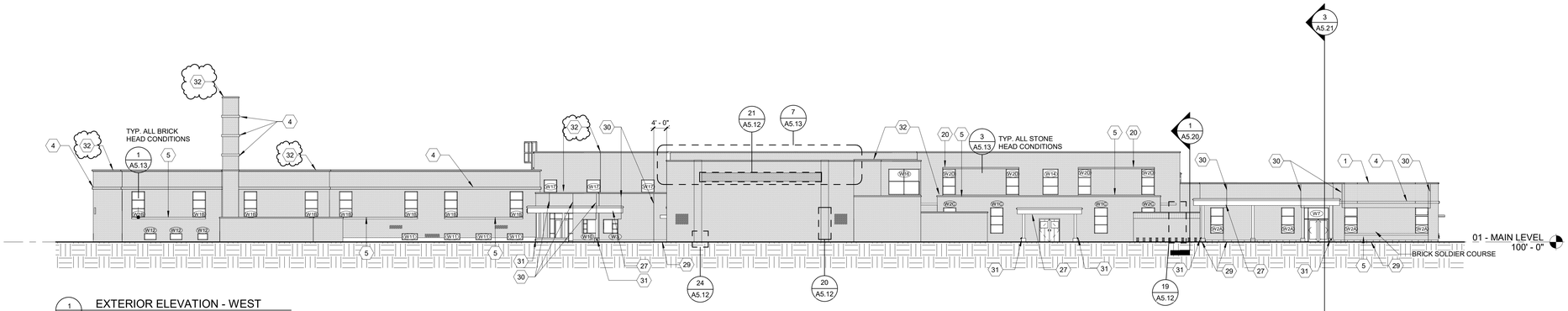
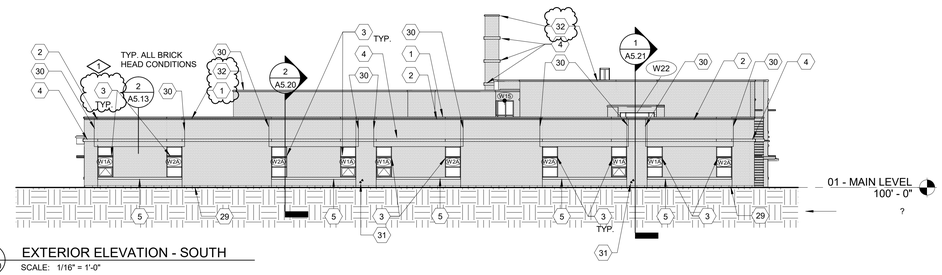
SHEET NUMBER
A3.12



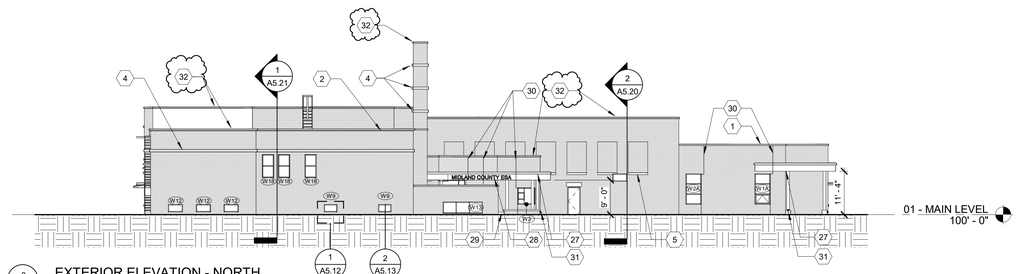
1 A5.10 EXTERIOR ELEVATION - WEST

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



2 A5.10 EXTERIOR ELEVATION - SOUTH

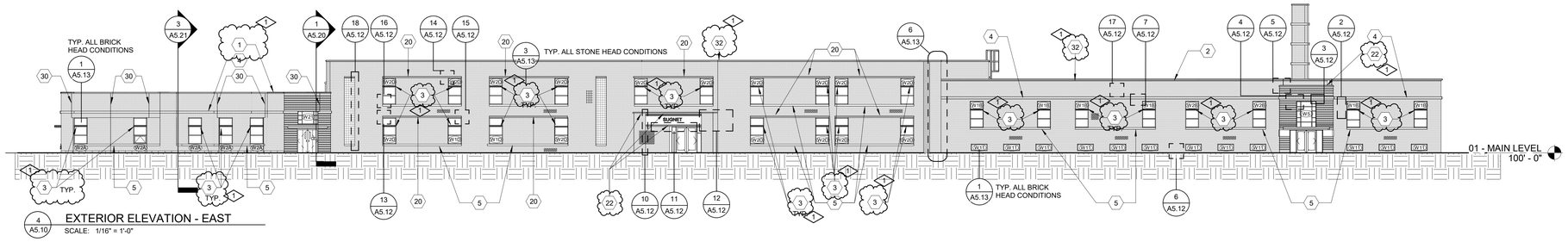
SCALE: 1/16" = 1'-0"



3 A5.10 EXTERIOR ELEVATION - NORTH

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

TYP. ALL BRICK HEAD CONDITIONS



4 A5.10 EXTERIOR ELEVATION - EAST

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

MATERIAL KEYNOTES

1. CAST STONE PARAPHET CAP
2. 1.5" BRICK PROTRUSION
3. FIXED SUNSCREEN SYSTEM MOUNTED TO VERTICAL MULLIONSBY WINDOW MFR. RE: ELVATIONS FOR SPECIFIC LOCATIONS
4. 1.5" BRICK PROTRUSION; SOLDIER COURSE
5. CAST STONE SILL
6. FOOTING AND FOUNDATION (SEE STRUCTURAL)
7. CONCRETE SLAB (SEE STRUCTURAL)
8. COMPACTED GRAINULAR FILL
9. DOOR (SEE SCHEDULE)
10. GLASS AND GLAZING SYSTEM
11. ALUMINUM FRAMING SYSTEM
12. FIXTURE AS OCCUR; RE: ELECTRICAL
14. REMOVE AND REPLACE ALL CRACKED OR SPALLED BRICK WITHIN THIS AREA WITH NEW. SEE GENERAL NOTE 1 FOR ALLOWANCE.
15. EXISTING MORTAR JOINS WITHIN AREA ARE CRACKED, LOOSE, MISSING, OPEN, OR GENERALLY DETERIORATED. REMOVE ALL IDENTIFIED MORTAR TO MINIMUM DEPTH OF 1" AND REPOINT WITH NEW MORTAR. SEE GENERAL NOTE 3 FOR ALLOWANCE.
16. OPEN CRACK IN STONE. INJECT THE CRACK FULL WITH EPOXY AND PATCH/FINISH THE EXTERIOR SURFACE OF THE STONE WITH A COLORED CEMENTITIOUS COMPOUND IN ORDER TO BLEND THE REPAIR INTO THE ADJACENT SURFACES OF THE EXISTING STONE. SEE GENERAL NOTE 5 FOR ALLOWANCE.
17. REMOVED EXISTING SEALANT AND BACKER ROD (IF PRESENT) BETWEEN WINDOW OR FRAME, AND ADJACENT MASONRY. INSTALL NEW BACKER ROD AND SEALANT.
18. MASONRY CONTRACTOR SHALL OPEN AREAS INDICATED SIMILAR TO CONDITION (SEE DETAILS). CONTRACTOR SHALL THEN PROVIDE ACCESS FOR ARCHITECT/ENGINEER TO REVIEW. ONCE REVIEW IS COMPLETE THEN CONTRACTOR SHALL INFILL WITH EXISTING KIND MATERIALS.
19. SALVAGE A MINIMUM OF THREE COURSES OF BRICK ABOVE TOP OF WINDOW TO EXPOSE EXISTING LINTEL. REMOVE EXISTING LINTEL AND FLASHING AND INSTALL NEW LINTEL AND THRU WALL FLASHING AND REPLACE BRICK. SEE GENERAL NOTE 1 & 3 FOR ALLOWANCES. SEE DETAIL 1/A5.13, 2/A5.13,
20. SALVAGE STONE HEADER AND ONE COURSE OF BRICK ABOVE HEADER TO EXPOSE EXISTING LINTEL. REMOVE EXISTING LINTEL AND FLASHING AND INSTALL NEW LINTEL AND THRU WALL FLASHING. REINSTALL HEADER AND BRICK. SEE GENERAL NOTE 1 & 3 FOR ALLOWANCES. SEE DETAIL 1/A5.13
21. SAW CUT BRICK, INSTALL A NEW 1/2" VERTICAL EXPANSION JOINT FREE OF MASONRY AND MORTAR FULL DEPTH. FILL JOINT WITH NEW BACKER ROD AND SEALANT. SEE DETAIL 4/A5.13
22. EXISTING LIMESTONE COPING PIECE TO BE REMOVED AND SALVAGED FOR REINSTALLATION. ALL EXPOSED SURFACES SHALL BE CHEMICALLY CLEANED TO REMOVE DIRT AND STAINS. ALL EXISTING MORTAR AND FLASHING SHALL BE REMOVED FROM HEAD AND BED JOINT SURFACES. INSTALL NEW COPING FLASHING ALONG THE ENTIRE LENGTH OF REPLACED COPING. SEE DETAIL 7/A6.11.
23. HATCHING INDICATES AREA OF BRICK WALL TO BE SALVAGED IN ORDER TO REPAIR AND FLASH EMBEDDED STEEL CONDITIONS.
24. REMOVE EXISTING ABANDONED ANCHOR. INFILL CAVITY WITH MORTAR AND RESEAL.
25. RESEAL GAP WITH SILICONE AROUND EXISTING PIPE.
26. INJECT CONCRETE CRACK FULL WITH EPOXY AND PATCH/FINISH THE EXTERIOR SURFACE WITH CEMENTITIOUS COMPOUND IN ORDER TO BLEND THE REPAIR INTO ADJACENT EXISTING SURFACE. SEE GENERAL NOTE 6 FOR ALLOWANCE.
27. CANOPY
28. CAST ALUMINUM LETTERING 18" HIGH CENTERED IN FACIA.
29. LIMESTONE BASE COURSE
30. MASONRY CONTROL JOINT
31. LIMESTONE BASE COURSE
32. EXISTING LIMESTONE COPING. ALL EXPOSED SURFACES TO BE CHEMICALLY CLEANED TO REMOVE DIRT & STAINS. ALL MISALIGNED COPING TO BE REMOVED AND REINSTALLED TO MATCH EXISTING. ALL DETERIORATED MORTAR JOINTS AND SEALANT TO BE CLEANED AND REINSTALLED.

NO.	REVISION	DATE
1	ADDENDUM NO. 1	08/31/23
	ISSUED FOR BID	08/23/23

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WTA ARCHITECTS

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PROJECT TITLE

RENOVATION AND ADDITION:
MIDLAND COUNTY ESA

MIDLAND, MICHIGAN

SHEET TITLE

EXTERIOR ELEVATIONS

PROJECT NUMBER
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PROJECT DATE
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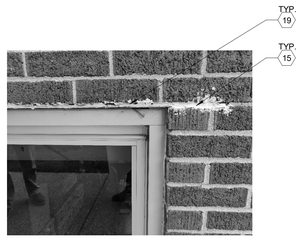
CHECKED BY
JMJ

SHEET NUMBER
A5.10



1 A5.12 PHOTO DETAIL 1
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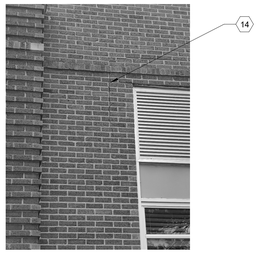

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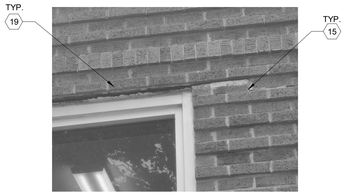

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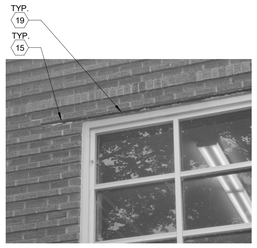

4 A5.12 PHOTO DETAIL 4
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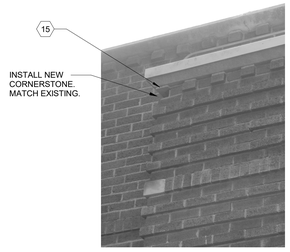

5 A5.12 PHOTO DETAIL 5
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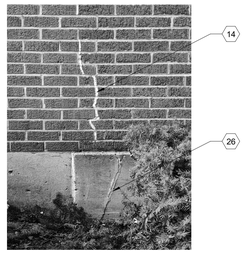
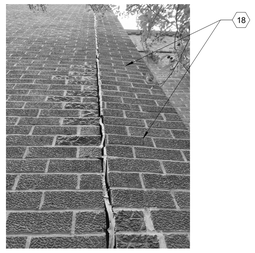


6 A5.12 PHOTO DETAIL 6
SCALE: 12" = 1'-0"

7 A5.12 PHOTO DETAIL 7
SCALE: 12" = 1'-0"

8 A5.12 PHOTO DETAIL 8
SCALE: 12" = 1'-0"



9 A5.12 PHOTO DETAIL 9
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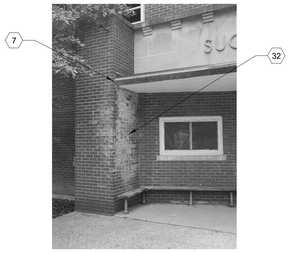

10 A5.12 PHOTO DETAIL 10
SCALE: 12" = 1'-0"

11 A5.12 PHOTO DETAIL 11
SCALE: 12" = 1'-0"

12 A5.12 PHOTO DETAIL 12
SCALE: 12" = 1'-0"

13 A5.12 PHOTO DETAIL 13
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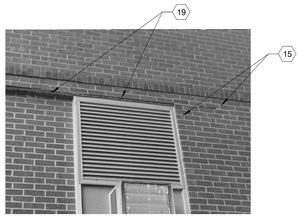

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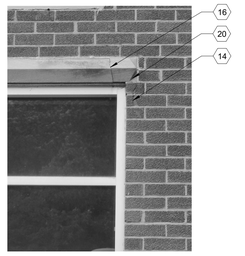

15 A5.12 PHOTO DETAIL 15
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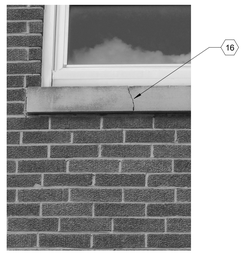

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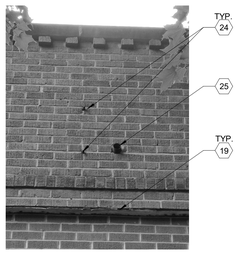
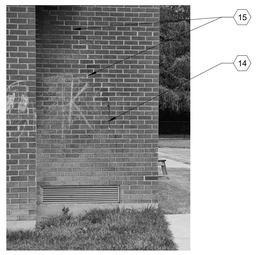


17 A5.12 PHOTO DETAIL 17
SCALE: 12" = 1'-0"

18 A5.12 PHOTO DETAIL 18
SCALE: 12" = 1'-0"



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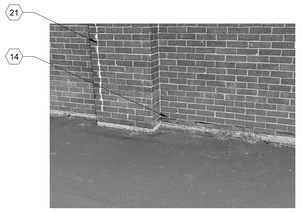
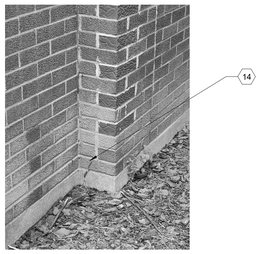


20 A5.12 PHOTO DETAIL 20
SCALE: 12" = 1'-0"

21 A5.12 PHOTO DETAIL 21
SCALE: 12" = 1'-0"

22 A5.12 PHOTO DETAIL 22
SCALE: 12" = 1'-0"

23 A5.12 PHOTO DETAIL 23
SCALE: 12" = 1'-0"



24 A5.12 PHOTO DETAIL 24
SCALE: 12" = 1'-0"

EXTERIOR RESTORATION GENERAL NOTES:

1. INCLUDE AN ALLOWANCE FOR THE REMOVAL AND REPLACEMENT OF ONE HUNDRED (100) INDIVIDUALLY DAMAGED BRICK UNITS. NEW BRICK SHALL MATCH EXISTING EXPOSED BRICK COURSING, COLOR, COLOR VARIATION WITHIN UNITS, SURFACE TEXTURE, SIZE, AND SHAPE. LOCATIONS SHALL BE FIELD REVIEWED WITH CONSTRUCTION MANAGER AND ARCHITECT PRIOR TO ANY WORK BEING PERFORMED. SEE EXTERIOR RESTORATION MATERIAL KEYNOTE NO. 14.
2. INCLUDE ALLOWANCE FOR THE REMOVAL AND REPLACEMENT OF ONE HUNDRED SQUARE FEET (100 SF) OF DAMAGED BRICK UNITS. NEW BRICK SHALL MATCH EXISTING EXPOSED BRICK COURSING, COLOR, COLOR VARIATION WITHIN UNITS, SURFACE TEXTURE, SIZE, AND SHAPE. LOCATIONS SHALL BE FIELD REVIEWED, VERIFIED, AND DOCUMENTED WITH CONSTRUCTION MANAGER AND ARCHITECT PRIOR TO ANY WORK BEING PERFORMED. SEE EXTERIOR RESTORATION MATERIAL KEYNOTE NO. 14.
3. INCLUDE AN ALLOWANCE FOR THE REMOVAL AND REPOINTING OF ONE THOUSAND FIVE HUNDRED LINEAR FEET (1500') OF DAMAGED MORTAR JOINTS. DEPTH OF NEW MORTAR SHALL BE 1 INCH MINIMUM. LOCATIONS SHALL BE FIELD REVIEWED, VERIFIED AND DOCUMENTED WITH CONSTRUCTION MANAGER AND ARCHITECT PRIOR TO ANY WORK BEING PERFORMED. SEE EXTERIOR RESTORATION MATERIAL KEYNOTE NO. 15.
4. INCLUDE AN ALLOWANCE FOR THE REMOVAL AND REPLACEMENT OF SEVEN HUNDRED SEVENTY-FIVE FEET (775') OF STEEL ANGLE LINTEL. SEE EXTERIOR RESTORATION MATERIAL KEYNOTE NO. 19, NO. 20.
5. INCLUDE AN ALLOWANCE FOR TEN (10) INJECTED EPOXY AND CEMENTITIOUS COMPOUND, AND STAINLESS-STEEL DOWEL, FOR STONE CRACK REPAIRS. LOCATIONS SHALL BE FIELD REVIEWED, VERIFIED AND DOCUMENTED WITH CONSTRUCTION MANAGER AND ARCHITECT PRIOR TO ANY WORK BEING PERFORMED. SEE EXTERIOR RESTORATION MATERIAL KEYNOTE NO. 16.
6. INCLUDE AN ALLOWANCE FOR TEN (10) INJECTED EPOXY AND CEMENTITIOUS COMPOUND CONCRETE FOUNDATION REPAIRS. LOCATIONS SHALL BE FIELD REVIEWED, VERIFIED AND DOCUMENTED WITH CONSTRUCTION MANAGER AND ARCHITECT PRIOR TO ANY WORK BEING PERFORMED. SEE EXTERIOR RESTORATION MATERIAL KEYNOTE NO. 26.
7. CONTRACTOR TO COORDINATE LOCATIONS OF ADDITIONAL PENETRATIONS THROUGH WALLS AND FLOORS NOT INDICATED ON ARCHITECTURAL DRAWINGS. REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL. REFER TO STRUCTURAL DRAWINGS FOR LINTEL OR FRAMING REQUIREMENTS.
8. AFTER COMPLETION OF WORK, CONTRACTOR SHALL CLEAN ALL WINDOW UNITS WHERE CONSTRUCTION DUST, DIRT, AND MATERIAL RESIDUE, ETC. MAY BE PRESENT.
9. AT ALL LOCATIONS OF MASONRY REMOVAL AND REPLACEMENT, CONTRACTOR SHALL PROPERLY INSTALL SHORING TO SUPPORT EXISTING MASONRY TO REMAIN ABOVE OPENED AREA. FAILURE TO INSTALL ADEQUATE SHORING THAT RESULTS IN DAMAGE TO THE MASONRY TO REMAIN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AND/OR REPLACE DAMAGED MASONRY AND/OR ADJACENT SURFACES, WALLS, ETC.
10. ALL ROOF AREAS AFFECTED BY CONSTRUCTION ACTIVITY SHALL BE PROTECTED WITH 3/4" PLYWOOD ON 2" RIGID SLOTTED INSULATION ON 6 MIL PLASTIC SHEETING OVER THE EXISTING ROOFING. THIS SHALL INCLUDE ROOFS BOTH ABOVE AND BELOW THE AREAS UNDER CONSTRUCTION. DO NOT BLOCK EXISTING ROOF DRAINS, MAINTAIN POSITIVE DRAINAGE TO THEM, PROTECT DRAINS FROM DAMAGE.
11. COLOR SCHEDULE FOR NEW SEALANTS SHALL BE AS FOLLOWS:
    1. VERTICAL BRICK TO BRICK = RED TO MATCH BRICK
    2. HORIZONTAL BRICK OR STONE = LIMESTONE (U.N.O)
    3. BRICK TO STONE OR STONE TO STONE = LIMESTONE
12. PROVIDE ACTUAL IN WALL SEALANT MOCKUPS OF EACH TYPE AND COLOR FOR OWNER AND ARCHITECT'S REVIEW. MOCKUPS MAY BECOME PART OF THE PERMANENT WORK IF APPROVED.
13. AT LOCATIONS WHERE MORE THAN 2.67 SQ.FT. OF BRICK IS REMOVED AND REPLACED WITH NEW BRICK, OR UNLESS NOTED OTHERWISE, INSTALL NEW ADJUSTABLE STAINLESS STEEL BRICK TIES AT 24" O.C. HORIZONTALLY AND 16" O.C. VERTICALLY. SEE SPECIFICATIONS FOR TIES.
14. ALONG WITH CLEANING ALL AREAS OF THE NEW MASONRY INSTALLATIONS AND WHERE SPECIFIC STAINING IS NOTED TO BE CLEANED, CONTRACTOR SHALL CLEAN ALL AREAS OF EXISTING MASONRY BELOW AND ADJACENT TO THE WORK AREA THAT MAY BE AFFECTED BY RUN-OFF OR OVER-SPRAY AT NO ADDITIONAL COST TO OWNER.
15. ALL WELDING ON THIS PROJECT IS TO BE PERFORMED BY CERTIFIED WELDERS (NO EXCEPTIONS). INDIVIDUAL WELDERS' CERTIFICATES TO BE INCLUDED IN SUBMITTALS.
16. ALL WELDING WORK AND FLASHING PANS TO BE INSPECTED BY ARCHITECT, STRUCTURAL ENGINEER, AND/OR TESTING COMPANY HIRED BY OWNER PRIOR TO COVERING WITH NEW MASONRY.
17. WHERE ALL NEW FLASHINGS TERMINATE AGAINST A VERTICAL SURFACE - PROVIDE PROPER WATERTIGHT END DAMS THAT DIRECT WATER TO DRAINAGE WEEPS. STAINLESS STEEL PAN FLASHINGS SHALL HAVE EDGE TURNED UP WITH CORNERS SOLDERED WATERTIGHT. TYPICAL ALL LOCATIONS.
18. ALL PENETRATIONS SHALL BE SEALED WITH SEALANT AND BACKER ROD ON NEW AND EXISTING FACE BRICK.
19. ALL ABANDONED ANCHORS ON FACE BRICK SHALL BE REMOVED AND THE CAVITY INFILLED WITH MORTAR.
20. ALL WORK INDICATED ON DRAWINGS DOES NOT NECESSARILY HAVE A CORRESPONDING "EXTERIOR RESTORATION KEYNOTE" ASSIGNED TO IT AND MAY BE INDICATED BY "GENERAL NOTES" OR DETAILS.
21. CLEAN ALL EXISTING STONE SURFACES SALVAGED OR TO REMAIN.
22. CLEAN ALL EXISTING AND NEW BRICK.

MATERIAL KEYNOTES

1 CAST STONE PARAPHET CAP
2 1.5 BRICK PROTRUSION
3 FIXED SUNSCREEN SYSTEM MOUNTED TO VERTICAL MULLION/SBY WINDOW MFR. RE: ELVATIONS FOR SPECIFIC LOCATIONS
4 1.5" BRICK PROTRUSION; SOLDIER COURSE
5 CAST STONE SILL
6 FOOTING AND FOUNDATION (SEE STRUCTURAL)
7 CONCRETE SLAB (SEE STRUCTURAL)
8 COMPACTED GRAINULAR FILL
9 DOOR (SEE SCHEDULE)
10 GLASS AND GLAZING SYSTEM
11 ALUMINUM FRAMING SYSTEM
12 FIXTURE AS OCCUR; RE: ELECTRICAL
14 REMOVE AND REPLACE ALL CRACKED OR SPALLED BRICK WITHIN THIS AREA WITH NEW. SEE GENERAL NOTE 1 FOR ALLOWANCE.
15 EXISTING MORTAR JOINS WITHIN AREA ARE CRACKED, LOOSE, MISSING, OPEN, OR GENERALLY DETERIORATED. REMOVE ALL IDENTIFIED MORTAR TO MINIMUM DEPTH OF 1" AND REPOINT WITH NEW MORTAR. SEE GENERAL NOTE 3 FOR ALLOWANCE.
16 OPEN CRACK IN STONE. INJECT THE CRACK FULL WITH EPOXY AND PATCH/FINISH THE EXTERIOR SURFACE OF THE STONE WITH A COLORED CEMENTITIOUS COMPOUND IN ORDER TO BLEND THE REPAIR INTO THE ADJACENT SURFACES OF THE EXISTING STONE. SEE GENERAL NOTE 5 FOR ALLOWANCE.
17 REMOVED EXISTING SEALANT AND BACKER ROD (IF PRESENT) BETWEEN WINDOW OR FRAME, AND ADJACENT MASONRY. INSTALL NEW BACKER ROD AND SEALANT.
18 MASONRY CONTRACTOR SHALL OPEN AREAS INDICATED SIMILAR TO CONDITION [SEE DETAILS]. CONTRACTOR SHALL THEN PROVIDE ACCESS FOR ARCHITECT/ENGINEER TO REVIEW. ONCE REVIEW IS COMPLETE THEN CONTRACTOR SHALL INFILL WITH EXISTING KIND MATERIALS.
19 SALVAGE A MINIMUM OF THREE COURSES OF BRICK ABOVE TOP OF WINDOW TO EXPOSE EXISTING LINTEL. REMOVE EXISTING LINTEL AND FLASHING AND INSTALL NEW LINTEL AND THRU WALL FLASHING AND REPLACE BRICK. SEE GENERAL NOTE 3 FOR ALLOWANCES. SEE DETAILS 1/A5.13, 2/A5.13
20 SALVAGE STONE HEADER AND ONE COURSE OF BRICK ABOVE HEADER TO EXPOSE EXISTING LINTEL. REMOVE EXISTING LINTEL AND FLASHING AND INSTALL NEW LINTEL AND THRU WALL FLASHING. REINSTALL HEADER AND BRICK. SEE GENERAL NOTE 3 FOR ALLOWANCES. SEE DETAIL 3/A5.13
21 SAW CUT BRICK, INSTALL A NEW 1/2" VERTICAL EXPANSION JOINT FREE OF MASONRY AND MORTAR FULL DEPTH. FILL JOINT WITH NEW BACKER ROD AND SEALANT. SEE DETAIL 4/A5.13
22 EXISTING LIMESTONE COPING PIECE TO BE REMOVED AND SALVAGED FOR REINSTALLATION. ALL EXPOSED SURFACES SHALL BE CHEMICALLY CLEANED TO REMOVE DIRT AND STAINS. ALL EXISTING MORTAR AND FLASHING SHALL BE REMOVED FROM HEAD AND BED JOINT SURFACES. INSTALL NEW COPING FLASHING ALONG THE ENTIRE LENGTH OF REPLACED COPING. SEE DETAIL 7/A6.11.
23 HATCHING INDICATES AREA OF BRICK WALL TO BE SALVAGED IN ORDER TO REPAIR AND FLASH EMBEDDED STEEL CONDITIONS.
24 REMOVE EXISTING ABANDONED ANCHOR. INFILL CAVITY WITH MORTAR AND RESEAL.
25 RESEAL GAP WITH SILICONE AROUND EXISTING PIPE.
26 INJECT CONCRETE CRACK FULL WITH EPOXY AND PATCH/FINISH THE EXTERIOR SURFACE WITH CEMENTITIOUS COMPOUND IN ORDER TO BLEND THE REPAIR INTO ADJACENT EXISTING SURFACE. SEE GENERAL NOTE 6 FOR ALLOWANCE.
27 CANOPY
28 CAST ALUMINUM LETTERING 18" HIGH CENTERED IN FACIA.
29 LIMESTONE BASE COURSE
30 MASONRY CONTROL JOINT
31 LIMESTONE BASE COURSE
32 EXISTING LIMESTONE COPING. ALL EXPOSED SURFACES TO BE CHEMICALLY CLEANED TO REMOVE DIRT & STAINS. ALL MISALIGNED COPING TO BE REMOVED AND REINSTALLED TO MATCH EXISTING. ALL DETERIORATED MORTAR JOINTS AND SEALANT TO BE CLEANED AND REINSTALLED.

NO.	REVISION	DATE
1	ADDENDUM NO. 1	08/31/23
	ISSUED FOR BID	08/23/23

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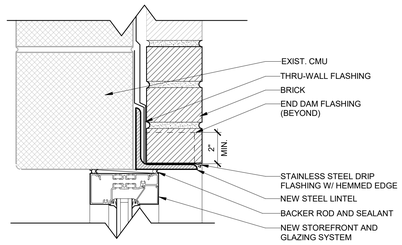
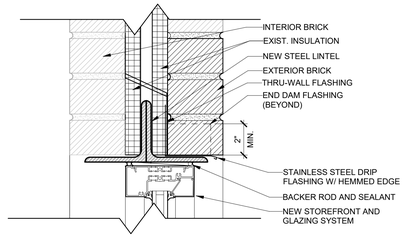
PROJECT TITLE
RENOVATION AND ADDITION:
MIDLAND COUNTY ESA
MIDLAND, MICHIGAN

SHEET TITLE
EXTERIOR PHOTO DETAILS

PROJECT NUMBER 2022006.1
PROJECT DATE AUGUST 23, 2023
CHECKED BY JMJ
SHEET NUMBER A5.12



1 A5.13 TYP. LINTEL DETAIL @ BRICK-BLOCK RENOVATION
SCALE: 3" = 1'-0"



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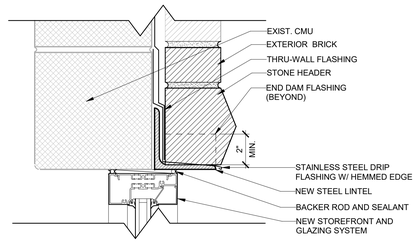
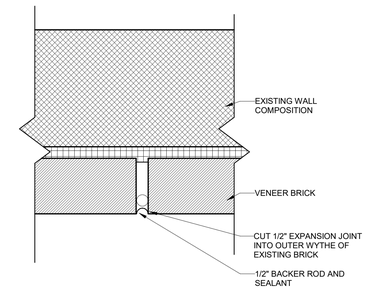


3 A5.13 TYP. LINTEL DETAIL @ STONE HEADER RENOVATION
SCALE: 3" = 1'-0"



4 A5.13 RENOVATION - VERTICAL EXPANSION JOINT
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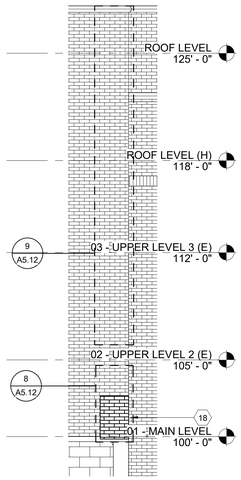
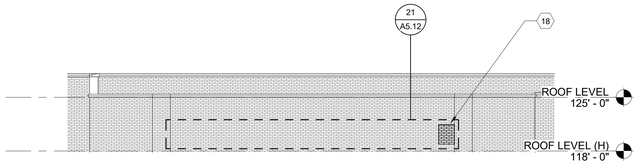
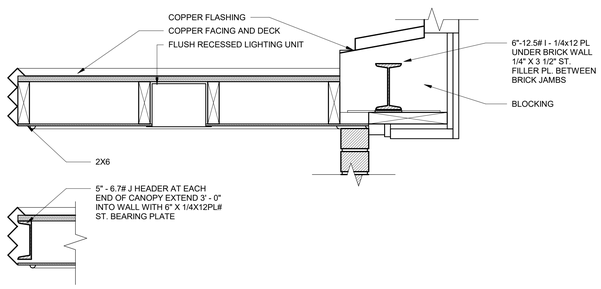


6 A5.13 EXPLORATORY DEMO DETAIL - EAST ELEVATION
SCALE: 1/4" = 1'-0"



7 A5.13 EXPLORATORY DEMO DETAIL - WEST GYM WALL
SCALE: 1/8" = 1'-0"



EXTERIOR RESTORATION GENERAL NOTES:

1. INCLUDE AN ALLOWANCE FOR THE REMOVAL AND REPLACEMENT OF ONE HUNDRED (100) INDIVIDUALLY DAMAGED BRICK UNITS. NEW BRICK SHALL MATCH EXISTING EXPOSED BRICK COURSING, COLOR, COLOR VARIATION WITHIN UNITS, SURFACE TEXTURE, SIZE, AND SHAPE. LOCATIONS SHALL BE FIELD REVIEWED WITH CONSTRUCTION MANAGER AND ARCHITECT PRIOR TO ANY WORK BEING PERFORMED. SEE EXTERIOR RESTORATION MATERIAL KEYNOTE NO. 14.
2. INCLUDE ALLOWANCE FOR THE REMOVAL AND REPLACEMENT OF ONE HUNDRED SQUARE FEET (100 SF) OF DAMAGED BRICK UNITS. NEW BRICK SHALL MATCH EXISTING EXPOSED BRICK COURSING, COLOR, COLOR VARIATION WITHIN UNITS, SURFACE TEXTURE, SIZE, AND SHAPE. LOCATIONS SHALL BE FIELD REVIEWED, VERIFIED, AND DOCUMENTED WITH CONSTRUCTION MANAGER AND ARCHITECT PRIOR TO ANY WORK BEING PERFORMED. SEE EXTERIOR RESTORATION MATERIAL KEYNOTE NO. 14.
3. INCLUDE AN ALLOWANCE FOR THE REMOVAL AND REPOINTING OF ONE THOUSAND FIVE HUNDRED LINEAR FEET (1500') OF DAMAGED MORTAR JOINTS. DEPTH OF NEW MORTAR SHALL BE 1 INCH MINIMUM. LOCATIONS SHALL BE FIELD REVIEWED, VERIFIED AND DOCUMENTED WITH CONSTRUCTION MANAGER AND ARCHITECT PRIOR TO ANY WORK BEING PERFORMED. SEE EXTERIOR RESTORATION MATERIAL KEYNOTE NO. 15.
4. INCLUDE AN ALLOWANCE FOR THE REMOVAL AND REPLACEMENT OF SEVEN HUNDRED SEVENTY-FIVE FEET (775') OF STEEL ANGLE LINTEL. SEE EXTERIOR RESTORATION MATERIAL KEYNOTE NO. 19, NO. 20.
5. INCLUDE AN ALLOWANCE FOR TEN (10) INJECTED EPOXY AND CEMENTITIOUS COMPOUND, AND STAINLESS-STEEL DOWEL, FOR STONE CRACK REPAIRS. LOCATIONS SHALL BE FIELD REVIEWED, VERIFIED AND DOCUMENTED WITH CONSTRUCTION MANAGER AND ARCHITECT PRIOR TO ANY WORK BEING PERFORMED. SEE EXTERIOR RESTORATION MATERIAL KEYNOTE NO. 16.
6. INCLUDE AN ALLOWANCE FOR TEN (10) INJECTED EPOXY AND CEMENTITIOUS COMPOUND CONCRETE FOUNDATION REPAIRS. LOCATIONS SHALL BE FIELD REVIEWED, VERIFIED AND DOCUMENTED WITH CONSTRUCTION MANAGER AND ARCHITECT PRIOR TO ANY WORK BEING PERFORMED. SEE EXTERIOR RESTORATION MATERIAL KEYNOTE NO. 26.
7. CONTRACTOR TO COORDINATE LOCATIONS OF ADDITIONAL PENETRATIONS THROUGH WALLS AND FLOORS NOT INDICATED ON ARCHITECTURAL DRAWINGS. REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL. REFER TO STRUCTURAL DRAWINGS FOR LINTEL OR FRAMING REQUIREMENTS.
8. AFTER COMPLETION OF WORK, CONTRACTOR SHALL CLEAN ALL WINDOW UNITS WHERE CONSTRUCTION DUST, DIRT, AND MATERIAL RESIDUE, ETC. MAY BE PRESENT.
9. AT ALL LOCATIONS OF MASONRY REMOVAL AND REPLACEMENT, CONTRACTOR SHALL PROPERLY INSTALL SHORING TO SUPPORT EXISTING MASONRY TO REMAIN ABOVE OPENED AREA. FAILURE TO INSTALL ADEQUATE SHORING THAT RESULTS IN DAMAGE TO THE MASONRY TO REMAIN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AND/OR REPLACE DAMAGED MASONRY AND/OR ADJACENT SURFACES, WALLS, ETC.
10. ALL ROOF AREAS AFFECTED BY CONSTRUCTION ACTIVITY SHALL BE PROTECTED WITH 3/4" PLYWOOD ON 2" RIGID SLOTTED INSULATION ON 6 MIL. PLASTIC SHEETING OVER THE EXISTING ROOFING. THIS SHALL INCLUDE ROOFS BOTH ABOVE AND BELOW THE AREAS UNDER CONSTRUCTION. DO NOT BLOCK EXISTING ROOF DRAINS, MAINTAIN POSITIVE DRAINAGE TO THEM, PROTECT DRAINS FROM DAMAGE.
11. COLOR SCHEDULE FOR NEW SEALANTS SHALL BE AS FOLLOWS:
    1. VERTICAL BRICK TO BRICK = RED TO MATCH BRICK
    2. HORIZONTAL BRICK OR STONE = LIMESTONE (U.N.O)
    3. BRICK TO STONE OR STONE TO STONE = LIMESTONE
12. PROVIDE ACTUAL IN WALL SEALANT MOCKUPS OF EACH TYPE AND COLOR FOR OWNER AND ARCHITECT'S REVIEW. MOCKUPS MAY BECOME PART OF THE PERMANENT WORK IF APPROVED.
13. AT LOCATIONS WHERE MORE THAN 2.67 SQ.FT. OF BRICK IS REMOVED AND REPLACED WITH NEW BRICK, OR UNLESS NOTED OTHERWISE, INSTALL NEW ADJUSTABLE STAINLESS STEEL BRICK TIES AT 24" O.C. HORIZONTALLY AND 16" O.C. VERTICALLY. SEE SPECIFICATIONS FOR TIES.
14. ALONG WITH CLEANING ALL AREAS OF THE NEW MASONRY INSTALLATIONS AND WHERE SPECIFIC STAINING IS NOTED TO BE CLEANED, CONTRACTOR SHALL CLEAN ALL AREAS OF EXISTING MASONRY BELOW AND ADJACENT TO THE WORK AREA THAT MAY BE AFFECTED BY RUN-OFF OR OVER-SPRAY AT NO ADDITIONAL COST TO OWNER.
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16. ALL WELDING WORK AND FLASHING PANS TO BE INSPECTED BY ARCHITECT, STRUCTURAL ENGINEER, AND/OR TESTING COMPANY HIRED BY OWNER PRIOR TO COVERING WITH NEW MASONRY.
17. WHERE ALL NEW FLASHINGS TERMINATE AGAINST A VERTICAL SURFACE - PROVIDE PROPER WATERTIGHT END DAMS THAT DIRECT WATER TO DRAINAGE WEEPS. STAINLESS STEEL PAN FLASHINGS SHALL HAVE EDGE TURNED UP WITH CORNERS SOLDERED WATERTIGHT. TYPICAL ALL LOCATIONS.
18. ALL PENETRATIONS SHALL BE SEALED WITH SEALANT AND BACKER ROD ON NEW AND EXISTING FACE BRICK.
19. ALL ABANDONED ANCHORS ON FACE BRICK SHALL BE REMOVED AND THE CAVITY INFILLED WITH MORTAR.
20. ALL WORK INDICATED ON DRAWINGS DOES NOT NECESSARILY HAVE A CORRESPONDING "EXTERIOR RESTORATION KEYNOTE" ASSIGNED TO IT AND MAY BE INDICATED BY "GENERAL NOTES" OR DETAILS.
21. CLEAN ALL EXISTING STONE SURFACES SALVAGED OR TO REMAIN.
22. CLEAN ALL EXISTING AND NEW BRICK.

MATERIAL KEYNOTES

1 CAST STONE PARAPHET CAP W/ BRICK PROTRUSION
3 FIXED SUNSCREEN SYSTEM MOUNTED TO VERTICAL MULLION/SBY WINDOW MFR. RE: ELVATIONS FOR SPECIFIC LOCATIONS
4 1.5" BRICK PROTRUSION; SOLDIER COURSE
5 CAST STONE SILL
6 FOOTING AND FOUNDATION (SEE STRUCTURAL)
7 CONCRETE SLAB (SEE STRUCTURAL)
8 COMPACTED GRAINULAR FILL
9 DOOR (SEE SCHEDULE)
10 GLASS AND GLAZING SYSTEM
11 ALUMINUM FRAMING SYSTEM
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20 SALVAGE STONE HEADER AND ONE COURSE OF BRICK ABOVE HEADER TO EXPOSE EXISTING LINTEL. REMOVE EXISTING LINTEL AND FLASHING AND INSTALL NEW LINTEL AND THRU WALL FLASHING. REINSTALL HEADER AND BRICK. SEE GENERAL NOTE 4, 5 & 14 FOR ALLOWANCES. SEE DETAIL 3/A5.13
21 SAW CUT BRICK, INSTALL A NEW 1/2" VERTICAL EXPANSION JOINT FREE OF MASONRY AND MORTAR FULL DEPTH. FILL JOINT WITH NEW BACKER ROD AND SEALANT. SEE DETAIL 4/A5.13
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1	ADDENDUM NO. 1	08/31/23
	ISSUED FOR BID	08/23/23

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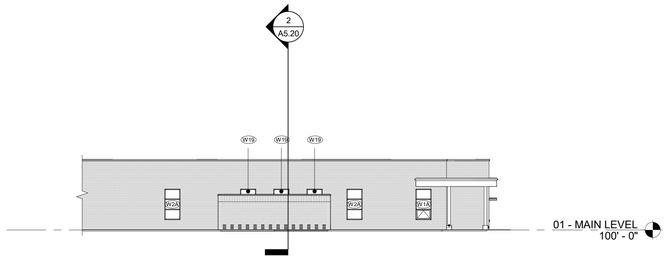
Saginaw, Michigan 48607
989 752 8107

PROJECT TITLE
RENOVATION AND ADDITION:
MIDLAND COUNTY ESA
MIDLAND, MICHIGAN

SHEET TITLE
EXTERIOR DETAILS

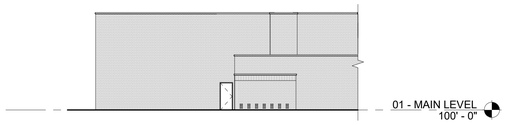
PROJECT NUMBER 2022006.1
PROJECT DATE AUGUST 23, 2023
CHECKED BY JMJ
SHEET NUMBER A5.13



1
1
A5.11

PARTIAL ELEVATION @ COURTYARD - SOUTH

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



1
2
A5.11

PARTIAL ELEVATION @ COURTYARD - NORTH

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

MATERIAL KEYNOTES

1

1 CAST STONE PARAPHET CAP
2 1.5" BRICK PROTRUSION
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PROJECT TITLE

RENOVATION AND ADDITION:
MIDLAND COUNTY ESA

MIDLAND, MICHIGAN

SHEET TITLE

EXTERIOR ELEVATIONS

PROJECT NUMBER
2022006.1

PROJECT DATE
AUGUST 23, 2023

CHECKED BY
JMJ

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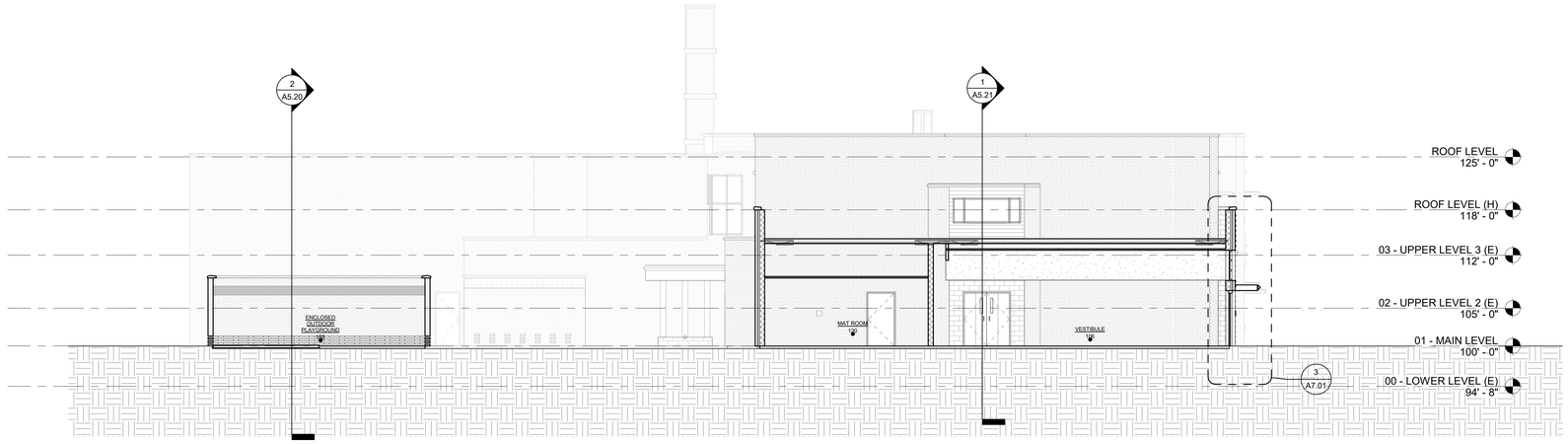
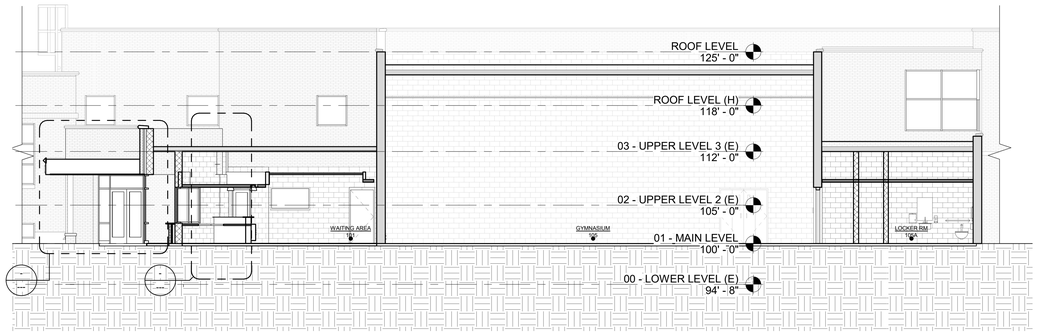
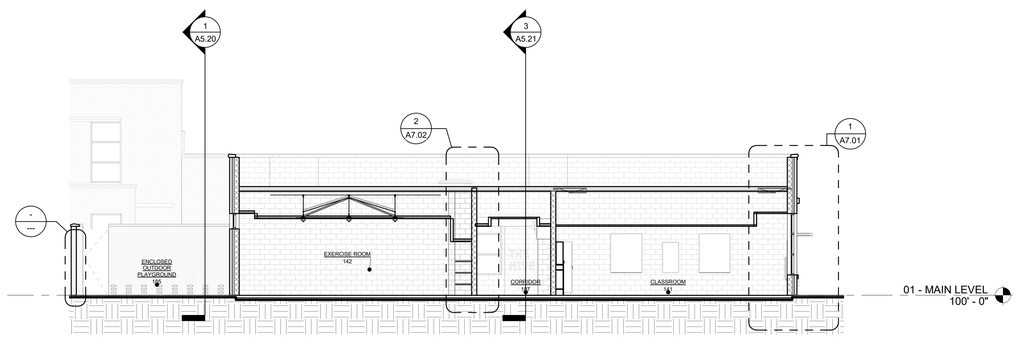


1 A5.20 Section 18
SCALE: 1/8" = 1'-0"



3 A5.20 Section 19 Copy 1
SCALE: 1/8" = 1'-0"



2 A5.20 Section 19
SCALE: 1/8" = 1'-0"

MATERIAL KEYNOTES

1

1 CAST STONE PARAPHET CAP
2 1.5" BRICK PROTRUSION
3 FIXED SUNSCREEN SYSTEM MOUNTED TO VERTICAL MULLIONSBY WINDOW MFR. RE: ELVATIONS FOR SPECIFIC LOCATIONS
4 1.5" BRICK PROTRUSION; SOLDIER COURSE
5 CAST STONE SILL
6 FOOTING AND FOUNDATION (SEE STRUCTURAL)
7 CONCRETE SLAB (SEE STRUCTURAL)
8 COMPACTED GRAINULAR FILL
9 DOOR (SEE SCHEDULE)
10 GLASS AND GLAZING SYSTEM
11 ALUMINUM FRAMING SYSTEM
12 FIXTURE AS OCCUR; RE: ELECTRICAL
14 REMOVE AND REPLACE ALL CRACKED OR SPALLED BRICK WITHIN THIS AREA WITH NEW. SEE GENERAL NOTE 1 FOR ALLOWANCE.
15 EXISTING MORTAR JOINS WITHIN AREA ARE CRACKED, LOOSE, MISSING, OPEN, OR GENERALLY DETERIORATED. REMOVE ALL IDENTIFIED MORTAR TO MINIMUM DEPTH OF 1" AND REPOINT WITH NEW MORTAR. SEE GENERAL NOTE 3 FOR ALLOWANCE.
16 OPEN CRACK IN STONE. INJECT THE CRACK FULL WITH EPOXY AND PATCH/FINISH THE EXTERIOR SURFACE OF THE STONE WITH A COLORED CEMENTITIOUS COMPOUND IN ORDER TO BLEND THE REPAIR INTO THE ADJACENT SURFACES OF THE EXISTING STONE. SEE GENERAL NOTE 5 FOR ALLOWANCE.
17 REMOVED EXISTING SEALANT AND BACKER ROD (IF PRESENT) BETWEEN WINDOW OR FRAME, AND ADJACENT MASONRY. INSTALL NEW BACKER ROD AND SEALANT.
18 MASONRY CONTRACTOR SHALL OPEN AREAS INDICATED SIMILAR TO CONDITION (SEE DETAILS). CONTRACTOR SHALL THEN PROVIDE ACCESS FOR ARCHITECT/ENGINEER TO REVIEW. ONCE REVIEW IS COMPLETE, THEN CONTRACTOR SHALL INFILL WITH EXISTING KIND MATERIALS.
19 SALVAGE A MINIMUM OF THREE COURSES OF BRICK ABOVE TOP OF WINDOW TO EXPOSE EXISTING LINTEL. REMOVE EXISTING LINTEL AND FLASHING AND INSTALL NEW LINTEL AND THRU WALL FLASHING AND REPLACE BRICK. SEE GENERAL NOTE 1, 3, 4 FOR ALLOWNACES. SEE DETAIL 1/A5.13. 2/A5.13.
20 SALVAGE STONE HEADER AND ONE COURSE OF BRICK ABOVE HEADER TO EXPOSE EXISTING LINTEL. REMOVE EXISTING LINTEL AND FLASHING AND INSTALL NEW LINTEL AND THRU WALL FLASHING. REINSTALL HEADER AND BRICK. SEE GENERAL NOTE 1, 3, 4, FOR ALLOWANCES. SEE DETAIL 3/A5.13.
21 SAW CUT BRICK, INSTALL A NEW 1/2" VERTICAL EXPANSION JOINT FREE OF MASONRY AND MORTAR FULL DEPTH. FILL JOINT WITH NEW BACKER ROD AND SEALANT. SEE DETAIL 4/A5.13.
22 EXISTING LIMESTONE COPING PIECE TO BE REMOVED AND SALVAGED FOR REINSTALLATION. ALL EXPOSED SURFACES SHALL BE CHEMICALLY CLEANED TO REMOVE DIRT AND STAINS. ALL EXISTING MORTAR AND FLASHING SHALL BE REMOVED FROM HEAD AND BED JOINT SURFACES. INSTALL NEW COPING FLASHING ALONG THE ENTIRE LENGTH OF REPLACED COPING. SEE DETAIL 7/A6.11.
23 HATCHING INDICATES AREA OF BRICK WALL TO BE SALVAGED IN ORDER TO REPAIR AND FLASH EMBEDDED STEEL CONDITIONS.
24 REMOVE EXISTING ABANDONED ANCHOR. INFILL CAVITY WITH MORTAR AND RESEAL.
25 RESEAL GAP WITH SIILICONE AROUND EXISTING PIPE.
26 INJECT CONCRETE CRACK FULL WITH EPOXY AND PATCH/FINISH THE EXTERIOR SURFACE WITH CEMENTITIOUS COMPOUND IN ORDER TO BLEND THE REPAIR INTO ADJACENT EXISTING SURFACE. SEE GENERAL NOTE 6 FOR ALLOWANCE.
27 CANOPY
28 CAST ALUMINUM LETTERING 18" HIGH CENTERED IN FACIA.
29 LIMESTONE BASE COURSE
30 MASONRY CONTROL JOINT
31 LIMESTONE BASE COURSE
32 EXISTING LIMESTONE COPING; ALL EXPOSED SURFACES TO BE CHEMICALLY CLEANED TO REMOVE DIRT & STAINS. ALL MISALIGNED COPING TO BE REMOVED AND REINSTALLED TO MATCH EXISTING. ALL DETERIORATED MORTAR JOINTS AND SEALANT TO BE CLEANED AND REINSTALLED.

1

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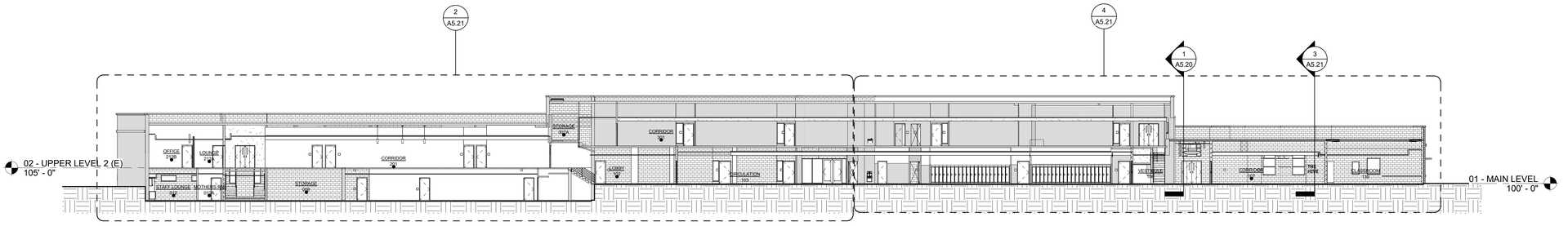
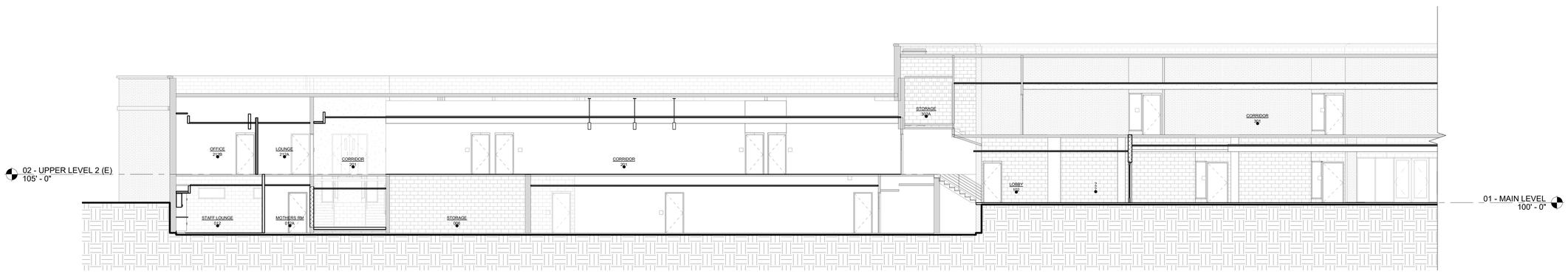


1 A5.21 **Section 20**
SCALE: 1/16" = 1'-0"



2 A5.21 **Section 20 - Callout 1**
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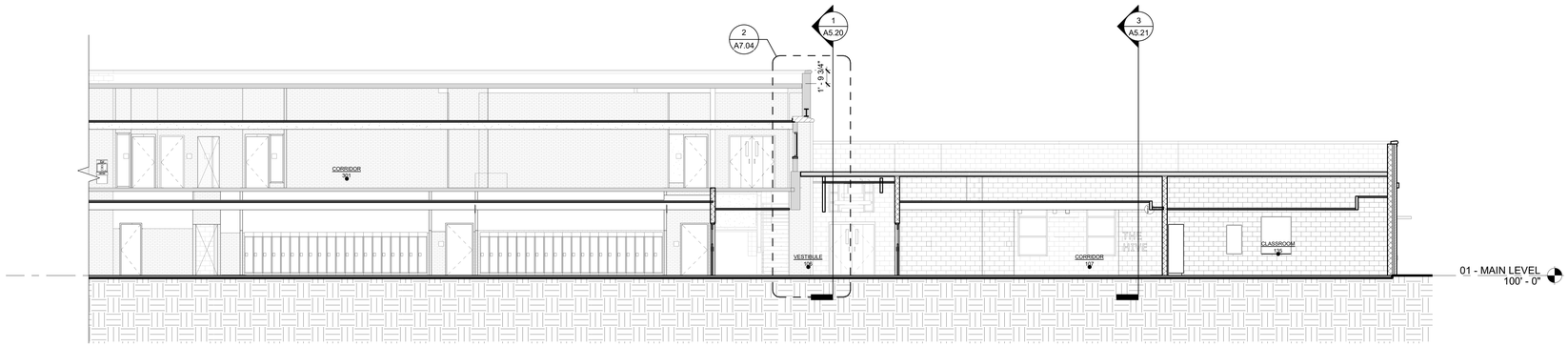
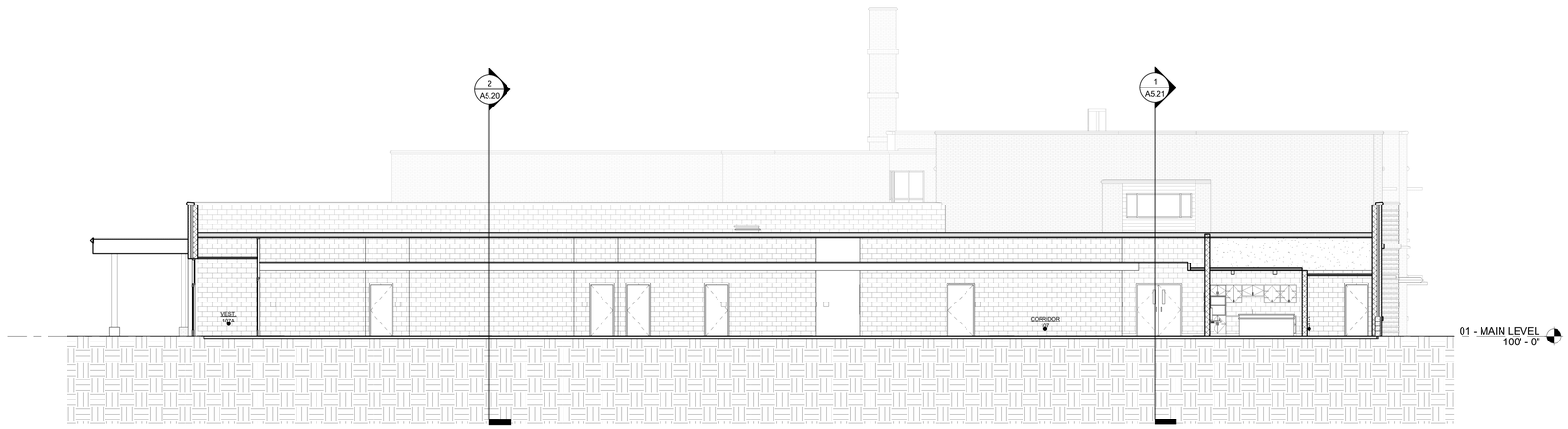


4 A5.21 **Section 20 - Callout 2**
SCALE: 1/8" = 1'-0"



3 A5.21 **Section 21**
SCALE: 1/8" = 1'-0"

MATERIAL KEYNOTES

1 CAST STONE PARAPHET CAP W/ 1.5" BRICK PROTRUSION
3 FIXED SUNSCREEN SYSTEM MOUNTED TO VERTICAL MULLIONSBY WINDOW MFR. RE: ELVATIONS FOR SPECIFIC LOCATIONS
4 1.5" BRICK PROTRUSION; SOLDIER COURSE
5 CAST STONE SILL
6 FOOTING AND FOUNDATION (SEE STRUCTURAL)
7 CONCRETE SLAB (SEE STRUCTURAL)
8 COMPACTED GRAINULAR FILL
9 DOOR (SEE SCHEDULE)
10 GLASS AND GLAZING SYSTEM
11 ALUMINUM FRAMING SYSTEM
12 FIXTURE AS OCCUR; RE: ELECTRICAL
14 REMOVE AND REPLACE ALL CRACKED OR SPALLED BRICK WITHIN THIS AREA WITH NEW. SEE GENERAL NOTE 1 FOR ALLOWANCE.
15 EXISTING MORTAR JOINS WITHIN AREA ARE CRACKED, LOOSE, MISSING, OPEN, OR GENERALLY DETERIORATED. REMOVE ALL IDENTIFIED MORTAR TO MINIMUM DEPTH OF 1" AND REPOINT WITH NEW MORTAR. SEE GENERAL NOTE 3 FOR ALLOWANCE.
16 OPEN CRACK IN STONE. INJECT THE CRACK FULL WITH EPOXY AND PATCH/FINISH THE EXTERIOR SURFACE OF THE STONE WITH A COLORED CEMENTITIOUS COMPOUND IN ORDER TO BLEND THE REPAIR INTO THE ADJACENT SURFACES OF THE EXISTING STONE. SEE GENERAL NOTE 5 FOR ALLOWANCE.
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19 SALVAGE A MINIMUM OF THREE COURSES OF BRICK ABOVE TOP OF WINDOW TO EXPOSE EXISTING LINTEL. REMOVE EXISTING LINTEL AND FLASHING AND INSTALL NEW LINTEL AND THRU WALL FLASHING AND REPLACE BRICK. SEE GENERAL NOTE 1, 3, 4, 5 FOR ALLOWANCES. SEE DETAIL 1/A2.13, 2/A5.13
20 SALVAGE STONE HEADER AND ONE COURSE OF BRICK ABOVE HEADER TO EXPOSE EXISTING LINTEL. REMOVE EXISTING LINTEL AND FLASHING AND INSTALL NEW LINTEL AND THRU WALL FLASHING. REINSTALL HEADER AND BRICK. SEE GENERAL NOTE 1, 3, 4, 5 FOR ALLOWANCES. SEE DETAIL 3/A5.13
21 SAW CUT BRICK, INSTALL A NEW 1/2" VERTICAL EXPANSION JOINT FREE OF MASONRY AND MORTAR FULL DEPTH. FILL JOINT WITH NEW BACKER ROD AND SEALANT. SEE DETAIL 4/A5.13
22 EXISTING LIMESTONE COPING PIECE TO BE REMOVED AND SALVAGED FOR REINSTALLATION. ALL EXPOSED SURFACES SHALL BE CHEMICALLY CLEANED TO REMOVE DIRT AND STAINS. ALL EXISTING MORTAR AND FLASHING SHALL BE REMOVED FROM HEAD AND BED JOINT SURFACES. INSTALL NEW COPING FLASHING ALONG THE ENTIRE LENGTH OF REPLACED COPING. SEE DETAIL 7/A6.11.
23 HATCHING INDICATES AREA OF BRICK WALL TO BE SALVAGED IN ORDER TO REPAIR AND FLASH EMBEDDED STEEL CONDITIONS.
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27 CANOPY
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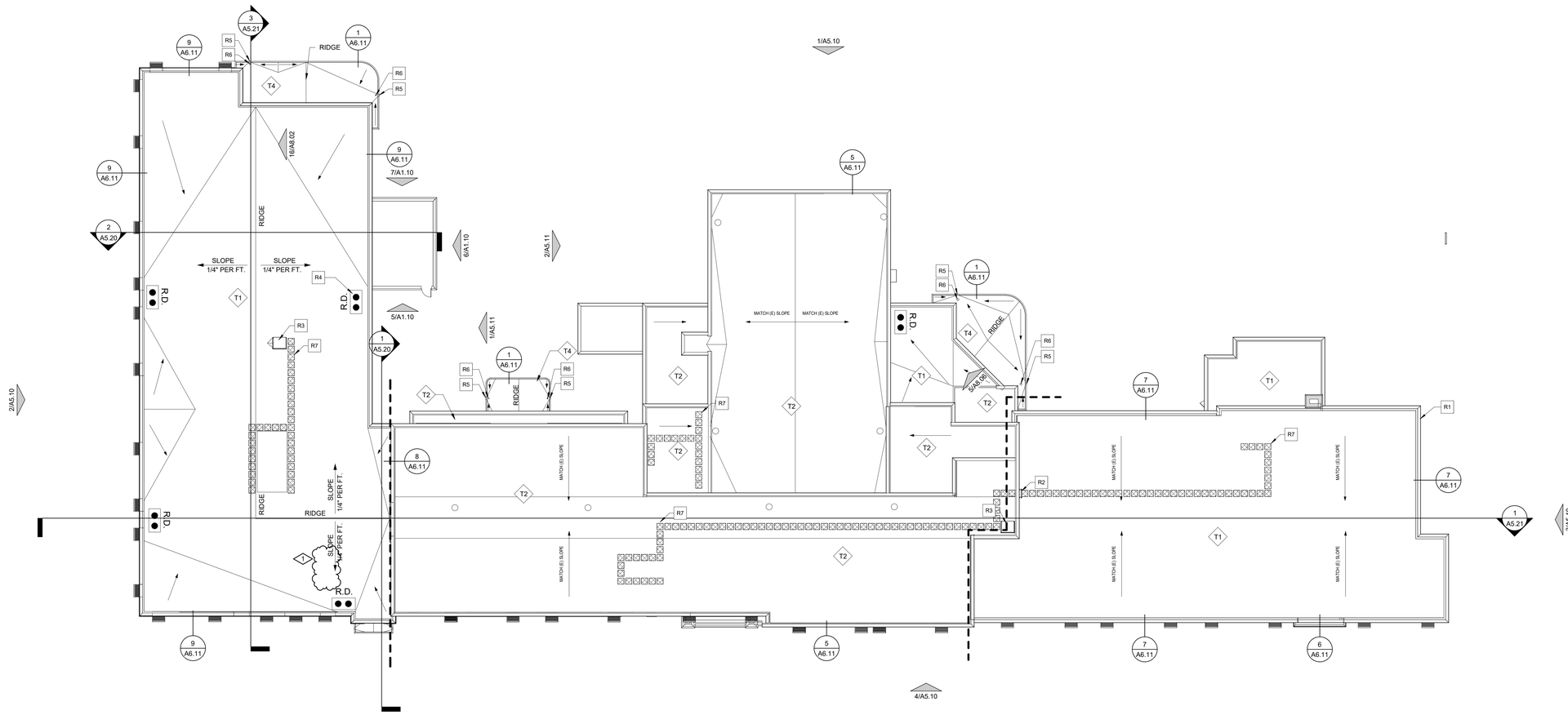

1 ROOF PLAN
NORTH A6.01 SCALE: 1/16" = 1'-0"

GENERAL ROOF PLAN NOTES:

1. PROVIDE ROOFING MANUFACTURER'S STANDARD FLASHING DETAILS FOR ALL ROOF PENETRATIONS. COORDINATE WITH ALL TRADES
2. REFER TO MECHANICAL AND PLUMBING PLANS FOR LOCATIONS AND EXTENTS OF EXPOSED PIPING ON ROOF
3. REFER TO PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR MOUNTED EQUIPMENT AND PENETRATIONS. ALL EQUIPMENT PENETRATIONS MAY NOT BE SHOWN ON THIS ROOF PLAN.
4. MAINTAIN ALL ROOF DRAINS CLEAN AND FREE-FLOWING DURING AND UPON COMPLETION OF CONSTRUCTION.

R# ROOF PLAN KEYNOTE

1 REPAIR EXISTING STONE PARAPHET AS REQUIRED; RE-SEAL ALL JOINTS AS NEEDED
2 NEW HIGH ROOF ACCESS LADDER; MATCH EXISTING LOCATION
3 ROOF HATCH
4 ROOF DRAIN
5 OVERFLOW SCUPPER
6 CANOPY ROOF DRAIN ROUTE PER DETAIL 8/A6.10
7 ROOF WALKWAY PADS

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ROOF PLAN

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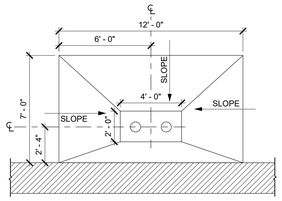
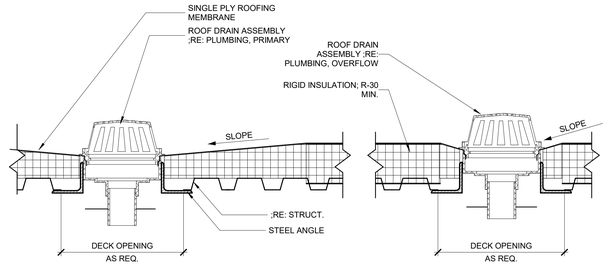
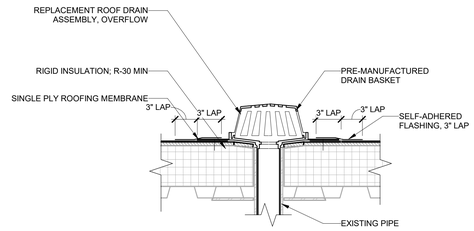


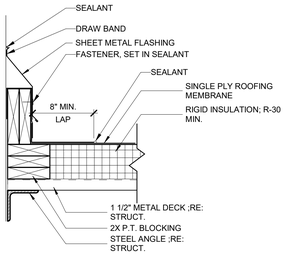
1 A6.10 PLAN-TYPICAL ROOF DRAIN SUMP
SCALE: 1/4" = 1'-0"



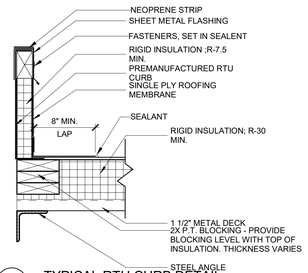
2 A6.10 TYPICAL ROOF DRAIN W/ OVERFLOW DETAIL
SCALE: 1 1/2" = 1'-0"



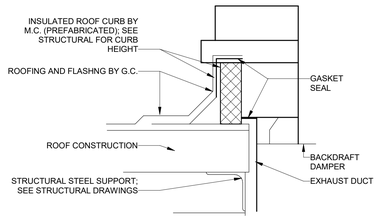
3 A6.10 TYPICAL ROOF SUMP SECTION
SCALE: 1 1/2" = 1'-0"



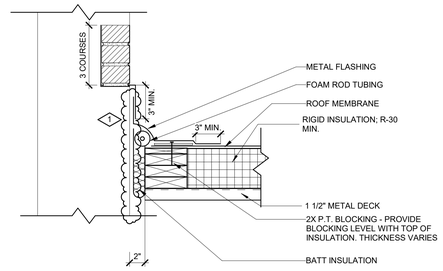
4 A6.10 TYPICAL DUCT THROUGH ROOF
SCALE: 1 1/2" = 1'-0"



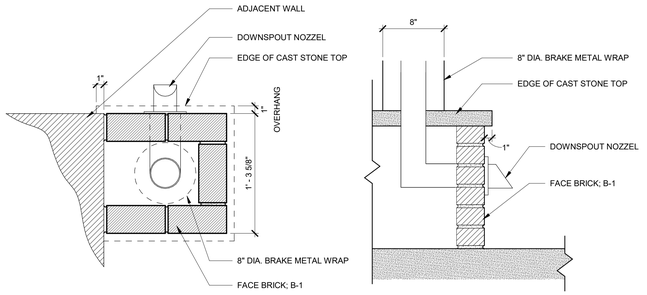
5 A6.10 TYPICAL RTU CURB DETAIL
SCALE: 1 1/2" = 1'-0"



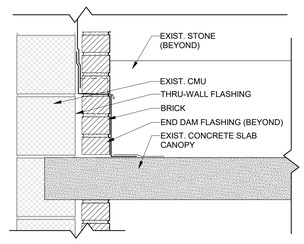
6 A6.10 ROOF PENETRATION DETAIL
SCALE: 3" = 1'-0"



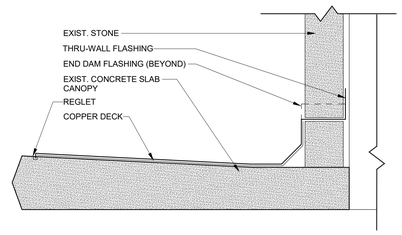
7 A6.10 TYP. EXPANSION JOINT @ AREA B-AREA C
SCALE: 1 1/2" = 1'-0"



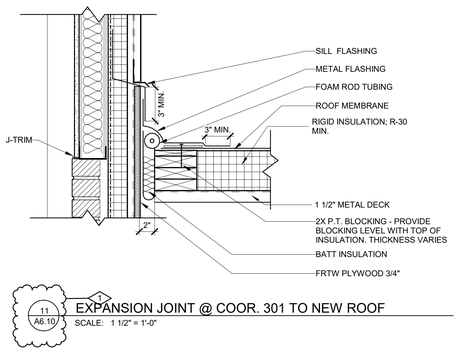
8 A6.10 TYP. ROOF DRAIN DETAIL @ CANOPY
SCALE: 1 1/2" = 1'-0"



9 A6.10 BRICK CANOPY DETAIL @ MAIN ENTRANCE SUGNET
SCALE: 1 1/2" = 1'-0"



10 A6.10 STONE CANOPY DETAIL @ MAIN ENTRANCE SUGNET
SCALE: 1 1/2" = 1'-0"



11 A6.10 EXPANSION JOINT @ COOR. 301 TO NEW ROOF
SCALE: 1 1/2" = 1'-0"

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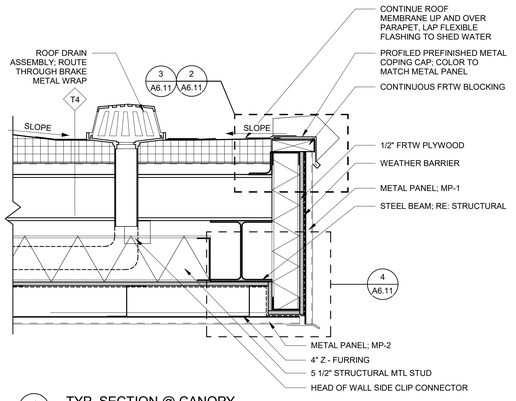
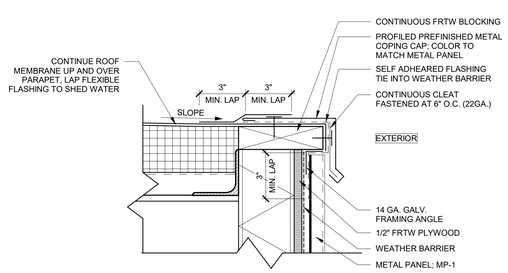
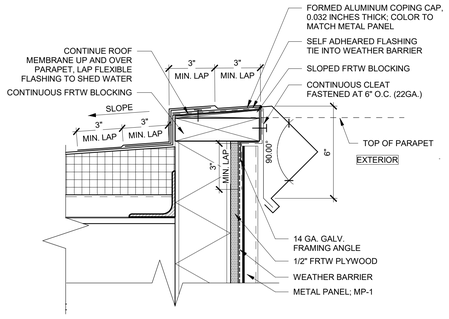


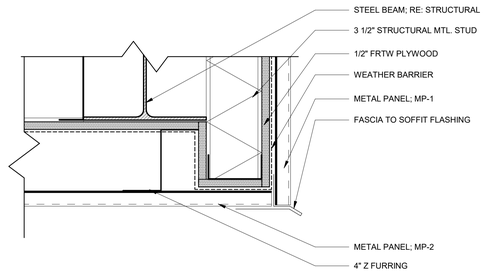
1 A6.11 TYP. SECTION @ CANOPY
SCALE: 1 1/2" = 1'-0"



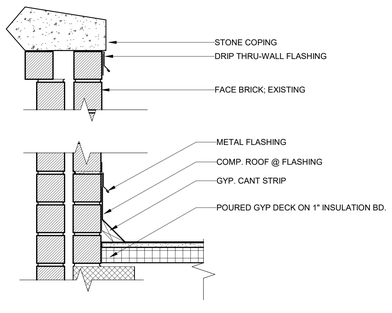
2 A6.11 OVERFLOW SCUPPER @ CANOPY
SCALE: 3" = 1'-0"



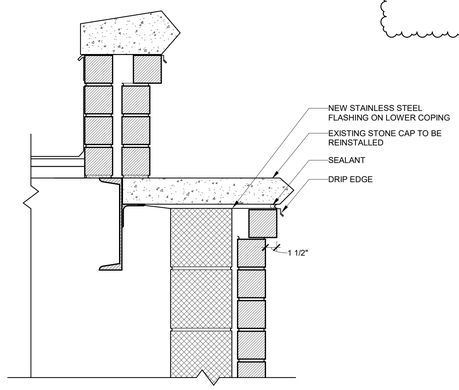
3 A6.11 PARAPET CAP DETAIL @ CANOPY
SCALE: 3" = 1'-0"



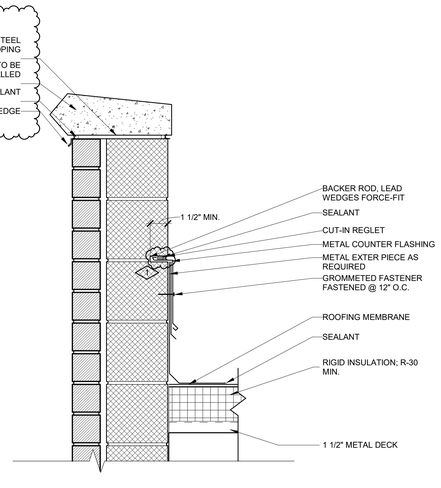
4 A6.11 FASCIA TO SOFFIT TRANSITION @ CANOPY
SCALE: 3" = 1'-0"



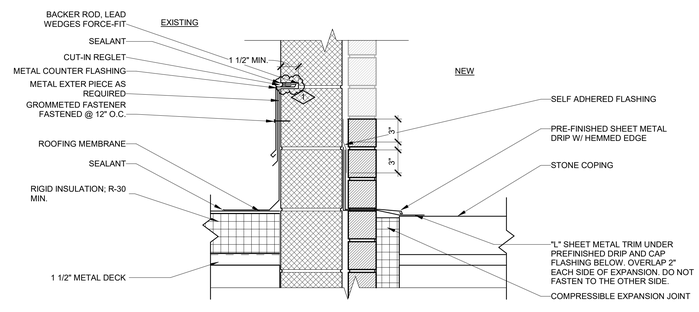
5 A6.11 PARAPET @ EXISTING
SCALE: 1 1/2" = 1'-0"



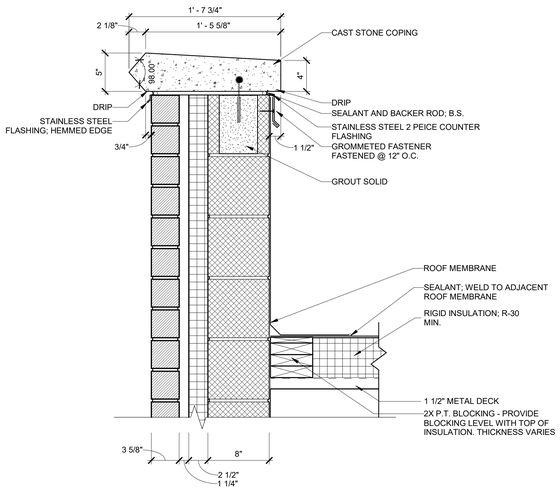
6 A6.11 PARAPET DETAIL @ JEFFERSON N. ENTRANCE
SCALE: 1 1/2" = 1'-0"



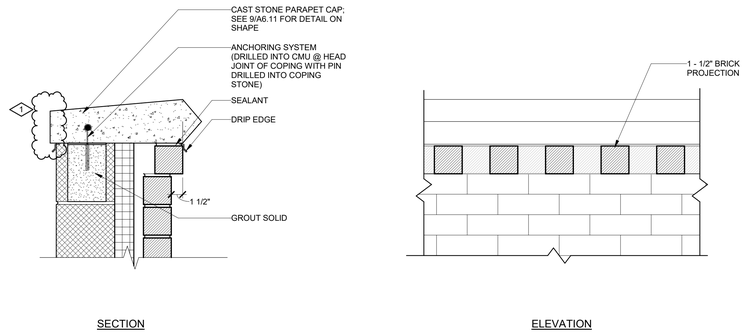
7 A6.11 TYP. PARAPET @ W/ CUT IN REGLET
SCALE: 1 1/2" = 1'-0"



8 A6.11 NEW ROOF TO EXISTING PARAPET DETAIL
SCALE: 1 1/2" = 1'-0"



9 A6.11 TYP. PARAPET @ NEW ADDITION
SCALE: 1 1/2" = 1'-0"



10 A6.11 BRICK DETAIL @ STONE COPING
SCALE: 1 1/2" = 1'-0"

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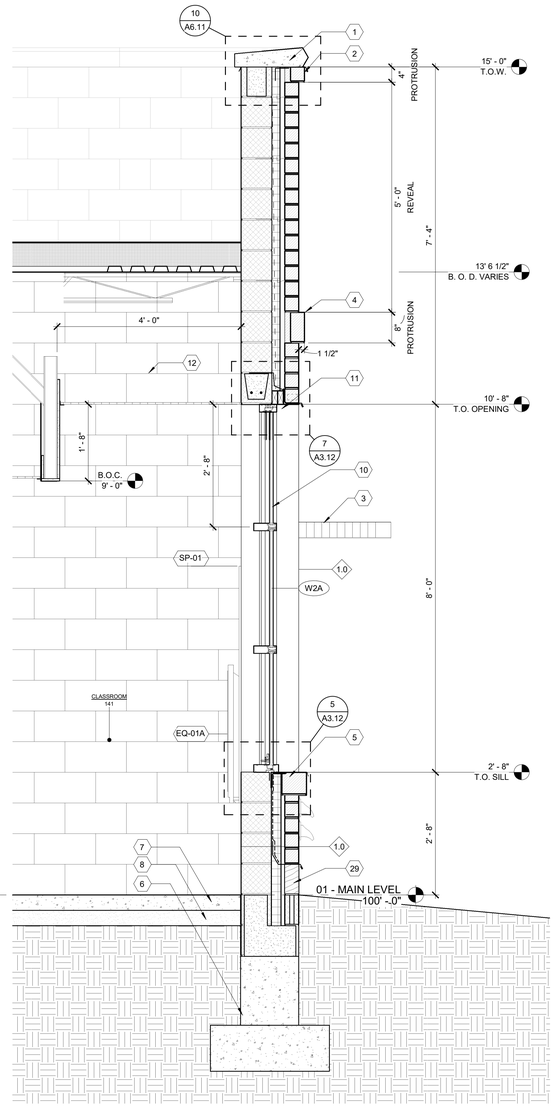
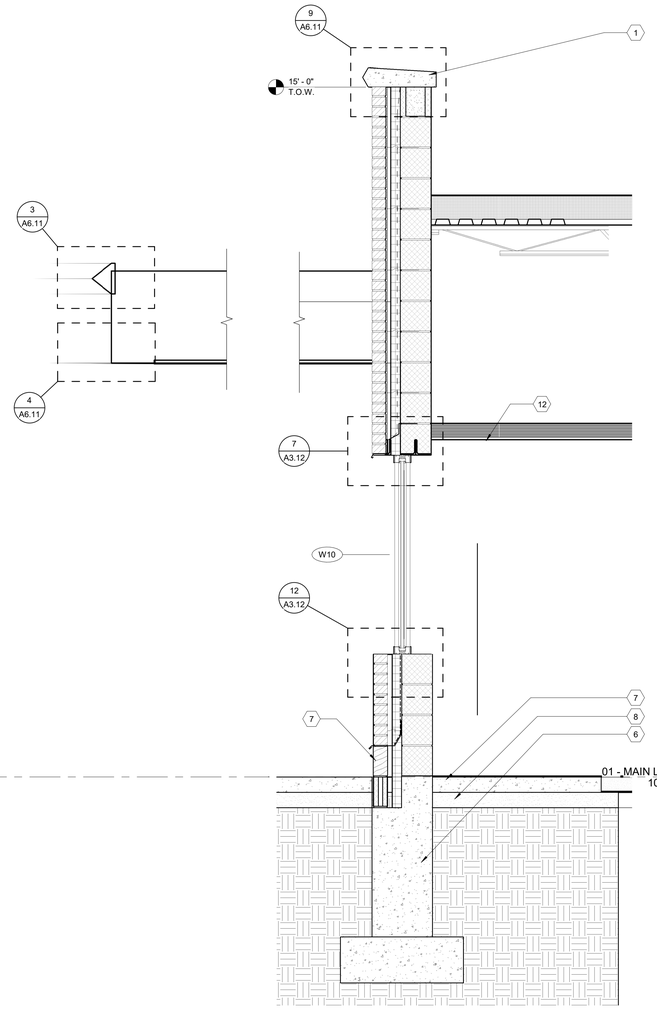
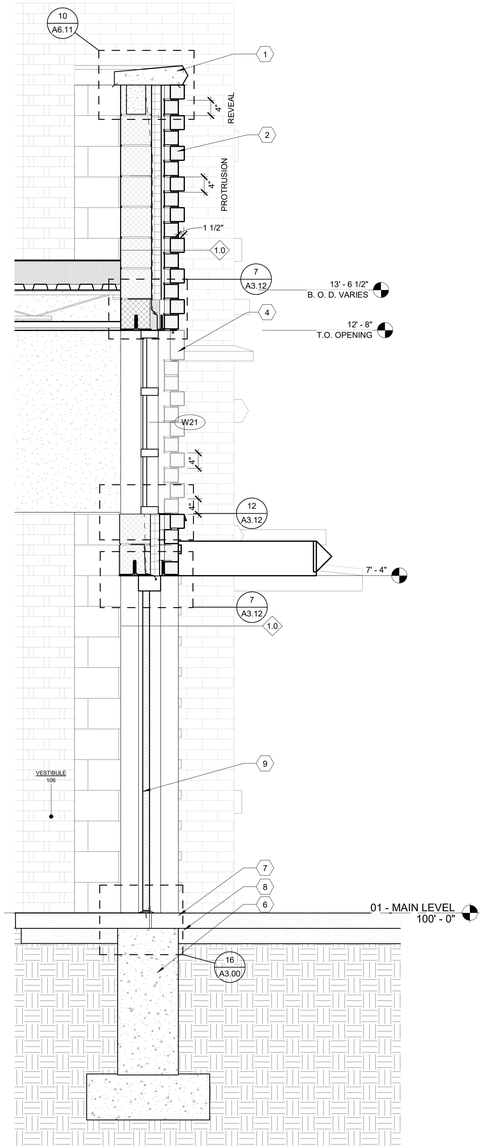
SHEET NUMBER
A6.11



1 A7.01 SECTION @ CLASSROOM 141
SCALE: 3/4" = 1'-0"



2 A7.01 SECTION @ WAITING LOBBY
SCALE: 3/4" = 1'-0"



3 A7.01 SECTION @ MAIN ENTRY VESTIBULE 106
SCALE: 3/4" = 1'-0"

MATERIAL KEYNOTES

1 CAST STONE PARAPHET CAP
2 1.5" BRICK PROTRUSION
3 FIXED SUNSCREEN SYSTEM MOUNTED TO VERTICAL MULLIONSBY WINDOW MFR. RE: ELVATIONS FOR SPECIFIC LOCATIONS
4 1.5" BRICK PROTRUSION; SOLDIER COURSE
5 CAST STONE SILL
6 FOOTING AND FOUNDATION (SEE STRUCTURAL)
7 CONCRETE SLAB (SEE STRUCTURAL)
8 COMPACTED GRAINULAR FILL
9 DOOR (SEE SCHEDULE)
10 GLASS AND GLAZING SYSTEM
11 ALUMINUM FRAMING SYSTEM
12 FIXTURE AS OCCUR; RE: ELECTRICAL
14 REMOVE AND REPLACE ALL CRACKED OR SPALLED BRICK WITHIN THIS AREA WITH NEW. SEE GENERAL NOTE 1 FOR ALLOWANCE.
15 EXISTING MORTAR JOINS WITHIN AREA ARE CRACKED, LOOSE, MISSING, OPEN, OR GENERALLY DETERIORATED. REMOVE ALL IDENTIFIED MORTAR TO MINIMUM DEPTH OF 1" AND REPOINT WITH NEW MORTAR. SEE GENERAL NOTE 3 FOR ALLOWANCE.
16 OPEN CRACK IN STONE. INJECT THE CRACK FULL WITH EPOXY AND PATCH/FINISH THE EXTERIOR SURFACE OF THE STONE WITH A COLORED CEMENTITIOUS COMPOUND IN ORDER TO BLEND THE REPAIR INTO THE ADJACENT SURFACES OF THE EXISTING STONE. SEE GENERAL NOTE 5 FOR ALLOWANCE.
17 REMOVED EXISTING SEALANT AND BACKER ROD (IF PRESENT) BETWEEN WINDOW OR FRAME, AND ADJACENT MASONRY. INSTALL NEW BACKER ROD AND SEALANT.
18 MASONRY CONTRACTOR SHALL OPEN AREAS INDICATED SIMILAR TO CONDITION [SEE DETAILS]. CONTRACTOR SHALL THEN PROVIDE ACCESS FOR ARCHITECT/ENGINEER TO REVIEW. ONCE REVIEW IS COMPLETE THEN CONTRACTOR SHALL INFILL WITH EXISTING KIND MATERIALS.
19 SALVAGE A MINIMUM OF THREE COURSES OF BRICK ABOVE TOP OF WINDOW TO EXPOSE EXISTING LINTEL. REMOVE EXISTING LINTEL AND FLASHING AND INSTALL NEW LINTEL AND THRU WALL FLASHING AND REPLACE BRICK. SEE GENERAL NOTE 1, 3, 4 FOR ALLOWNACES. SEE DETAIL 1/AS.13, 2/AS.13
20 SALVAGE STONE HEADER AND ONE COURSE OF BRICK ABOVE HEADER TO EXPOSE EXISTING LINTEL. REMOVE EXISTING LINTEL AND FLASHING AND INSTALL NEW LINTEL AND THRU WALL FLASHING. REINSTALL HEADER AND BRICK. SEE GENERAL NOTE 1, 3, 4 FOR ALLOWANCES. SEE DETAILS 3/AS.13
21 SAW CUT BRICK, INSTALL A NEW 1/2" VERTICAL EXPANSION JOINT FREE OF MASONRY AND MORTAR FULL DEPTH. FILL JOINT WITH NEW BACKER ROD AND SEALANT. SEE DETAIL 4/AS.13.
22 EXISTING LIMESTONE COPING PIECE TO BE REMOVED AND SALVAGED FOR REINSTALLATION. ALL EXPOSED SURFACES SHALL BE CHEMICALLY CLEANED TO REMOVE DIRT AND STAINS. ALL EXISTING MORTAR AND FLASHING SHALL BE REMOVED FROM HEAD AND BED JOINT SURFACES. INSTALL NEW COPING FLASHING ALONG THE ENTIRE LENGTH OF REPLACED COPING. SEE DETAIL 7/A6.11.
23 HATCHING INDICATES AREA OF BRICK WALL TO BE SALVAGED IN ORDER TO REPAIR AND FLASH EMBEDDED STEEL CONDITIONS.
24 REMOVE EXISTING ABANDONED ANCHOR. INFILL CAVITY WITH MORTAR AND RESEAL.
25 RESEAL GAP WITH SILICONE AROUND EXISTING PIPE.
26 INJECT CONCRETE CRACK FULL WITH EPOXY AND PATCH/FINISH THE EXTERIOR SURFACE WITH CEMENTITIOUS COMPOUND IN ORDER TO BLEND THE REPAIR INTO ADJACENT EXISTING SURFACE. SEE GENERAL NOTE 6 FOR ALLOWANCE.
27 CANOPY
28 CAST ALUMINUM LETTERING 18" HIGH CENTERED IN FACIA.
29 LIMESTONE BASE COURSE
30 MASONRY CONTROL JOINT
31 LIMESTONE BASE COURSE
32 EXISTING LIMESTONE COPING. ALL EXPOSED SURFACES TO BE CHEMICALLY CLEANED TO REMOVE DIRT & STAINS. ALL MISALIGNED COPING TO BE REMOVED AND REINSTALLED TO MATCH EXISTING. ALL DETERIORATED MORTAR JOINTS AND SEALANT TO BE CLEANED AND REINSTALLED.

NO.	REVISION	DATE
1	ADDENDUM NO. 1	08/31/23
	ISSUED FOR BID	08/23/23

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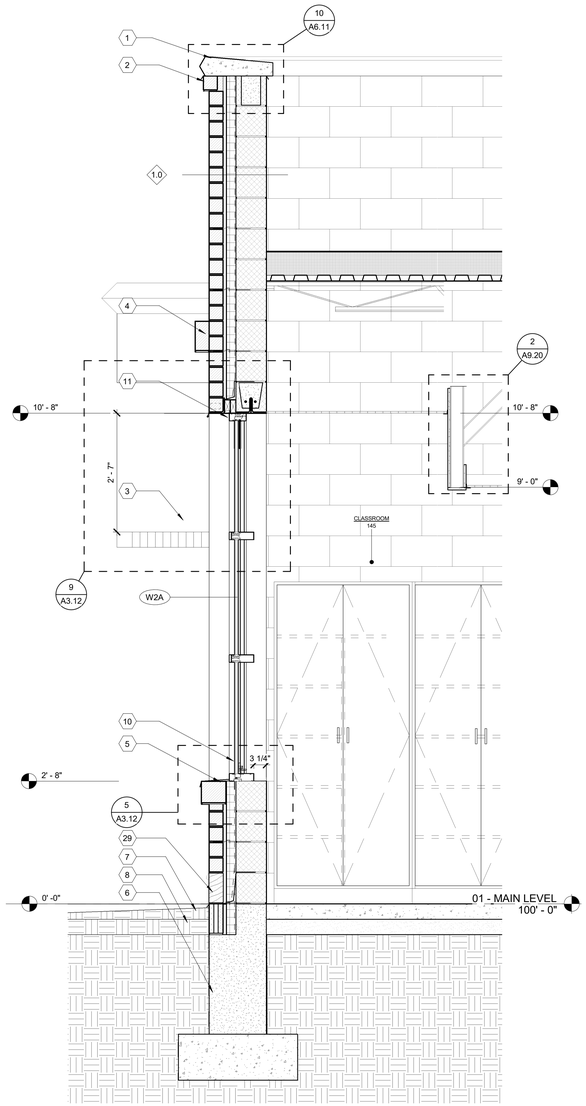
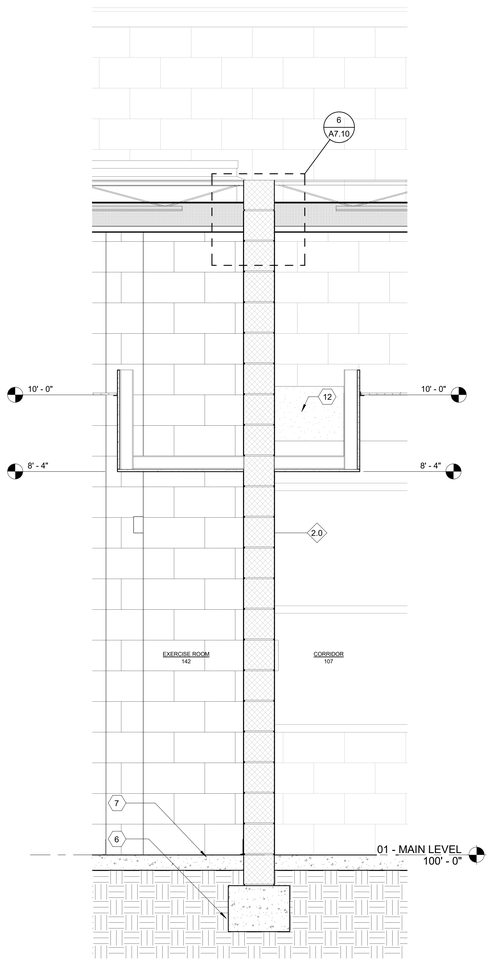
PROJECT TITLE
RENOVATION AND ADDITION:
MIDLAND COUNTY ESA
MIDLAND, MICHIGAN

SHEET TITLE
WALL SECTIONS

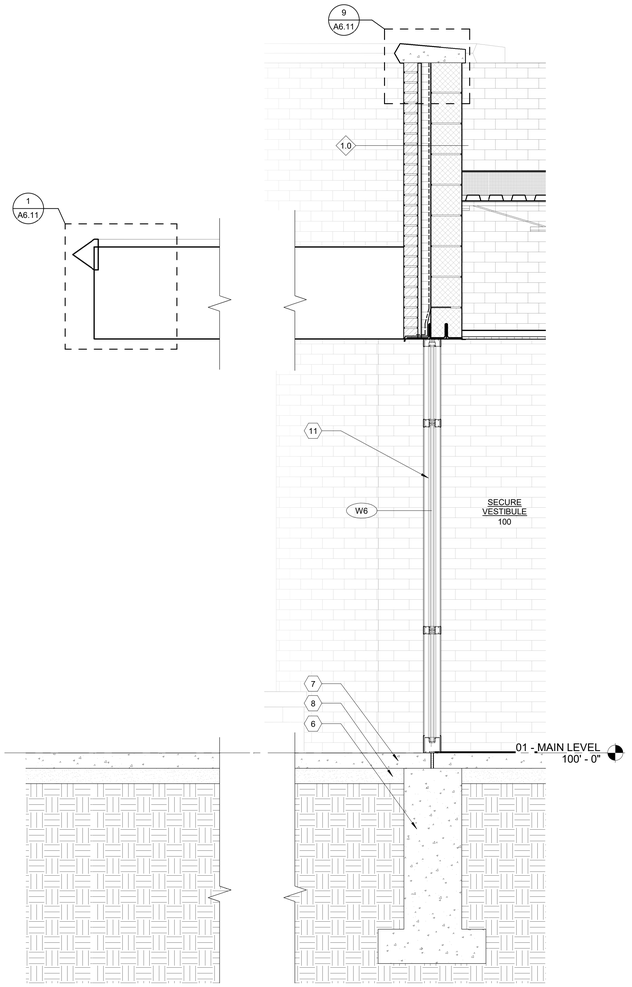
PROJECT NUMBER 2022006.1
PROJECT DATE AUGUST 23, 2023
CHECKED BY Checker
SHEET NUMBER A7.01



1 A7.02 SECTION @ CLASSROOM 145
SCALE: 3/4" = 1'-0"



2 A7.02 SECTION @ CORRIDOR 107
SCALE: 3/4" = 1'-0"



3 A7.02 SECTION @ MAIN ENTRY VESTIBULE 100
SCALE: 3/4" = 1'-0"

MATERIAL KEYNOTES

1 CAST STONE PARAPHET CAP
2 1.5" BRICK PROTRUSION
3 FIXED SUNSCREEN SYSTEM MOUNTED TO VERTICAL MULLIONSBY WINDOW MFR. RE: ELVATIONS FOR SPECIFIC LOCATIONS
4 1.5" BRICK PROTRUSION; SOLDIER COURSE
5 CAST STONE SILL
6 FOOTING AND FOUNDATION (SEE STRUCTURAL)
7 CONCRETE SLAB (SEE STRUCTURAL)
8 COMPACTED GRAINULAR FILL
9 DOOR (SEE SCHEDULE)
10 GLASS AND GLAZING SYSTEM
11 ALUMINUM FRAMING SYSTEM
12 FIXTURE AS OCCUR; RE: ELECTRICAL
14 REMOVE AND REPLACE ALL CRACKED OR SPALLED BRICK WITHIN THIS AREA WITH NEW. SEE GENERAL NOTE 1 FOR ALLOWANCE.
15 EXISTING MORTAR JOINS WITHIN AREA ARE CRACKED, LOOSE, MISSING, OPEN, OR GENERALLY DETERIORATED. REMOVE ALL IDENTIFIED MORTAR TO MINIMUM DEPTH OF 1" AND REPOINT WITH NEW MORTAR. SEE GENERAL NOTE 3 FOR ALLOWANCE.
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17 REMOVED EXISTING SEALANT AND BACKER ROD (IF PRESENT) BETWEEN WINDOW OR FRAME, AND ADJACENT MASONRY. INSTALL NEW BACKER ROD AND SEALANT.
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20 SALVAGE STONE HEADER AND ONE COURSE OF BRICK ABOVE HEADER TO EXPOSE EXISTING LINTEL. REMOVE EXISTING LINTEL AND FLASHING AND INSTALL NEW LINTEL AND THRU WALL FLASHING. REINSTALL HEADER AND BRICK. SEE GENERAL NOTE 3, 3-4 FOR ALLOWANCES. SEE DETAIL 3/A5.15
21 SAW CUT BRICK, INSTALL A NEW 1/2" VERTICAL EXPANSION JOINT FREE OF MASONRY AND MORTAR FULL DEPTH. FILL JOINT WITH NEW BACKER ROD AND SEALANT. SEE DETAIL 4/A5.13
22 EXISTING LIMESTONE COPING PIECE TO BE REMOVED AND SALVAGED FOR REINSTALLATION. ALL EXPOSED SURFACES SHALL BE CHEMICALLY CLEANED TO REMOVE DIRT AND STAINS. ALL EXISTING MORTAR AND FLASHING SHALL BE REMOVED FROM HEAD AND BED JOINT SURFACES. INSTALL NEW COPING FLASHING ALONG THE ENTIRE LENGTH OF REPLACED COPING. SEE DETAIL 7/A6.11.
23 HATCHING INDICATES AREA OF BRICK WALL TO BE SALVAGED IN ORDER TO REPAIR AND FLASH EMBEDDED STEEL CONDITIONS.
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NO.	REVISION	DATE
1	ADDENDUM NO. 1	08/31/23
	ISSUED FOR BID	08/23/23

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Saginaw, Michigan 48607
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PROJECT TITLE
RENOVATION AND ADDITION:
MIDLAND COUNTY ESA

MIDLAND, MICHIGAN

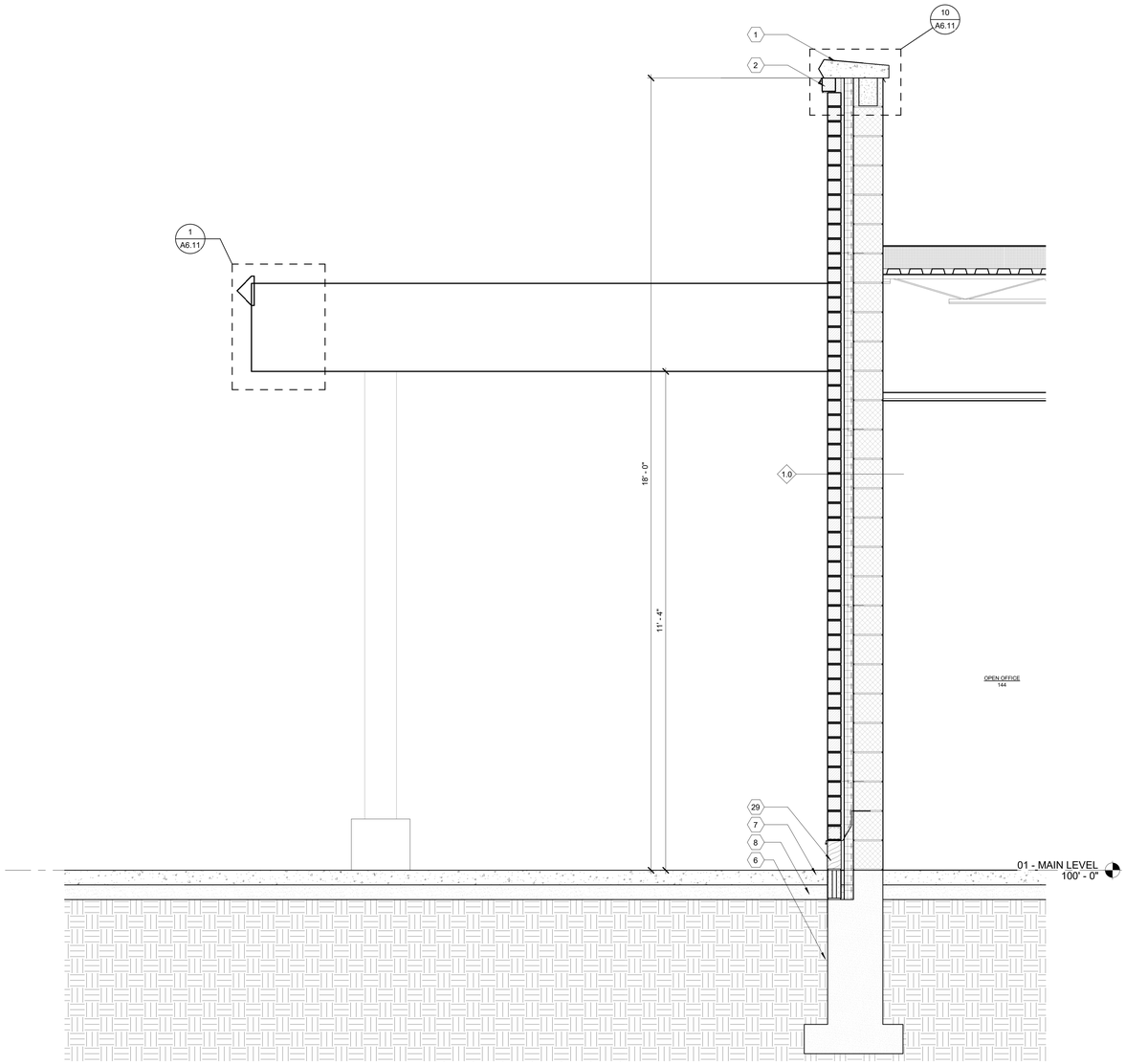
SHEET TITLE
WALL SECTIONS

PROJECT NUMBER
2022006.1

PROJECT DATE
AUGUST 23, 2023

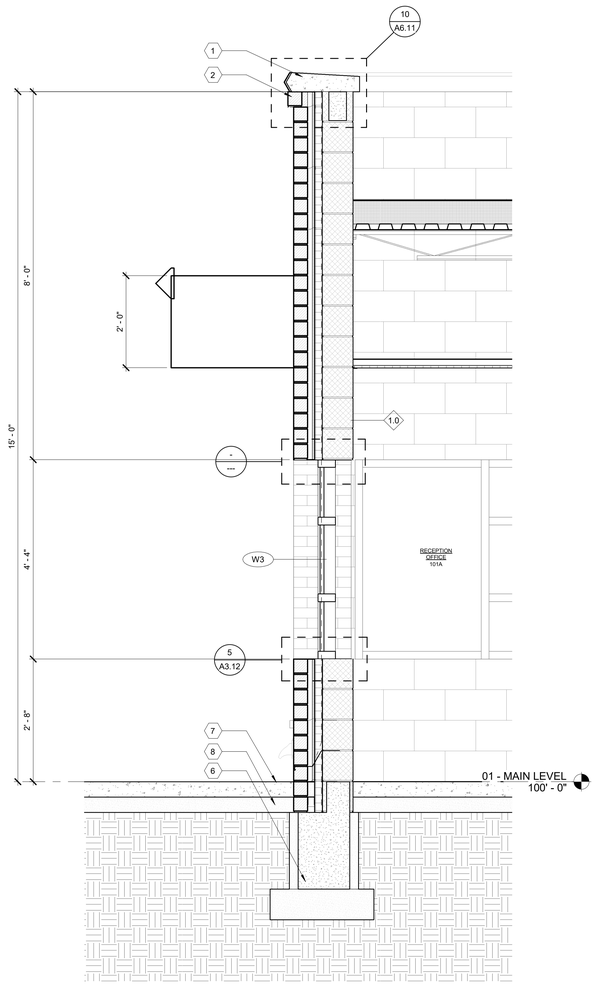
CHECKED BY
Checker

SHEET NUMBER
A7.02



1 A7.03 SECTION @ SOUTH ADDTION ENTRY CANOPY

SCALE: 3/4" = 1'-0"



2 A7.03 SECTION @ MAIN ENTRY CANOPY

SCALE: 3/4" = 1'-0"

MATERIAL KEYNOTES

1 CAST STONE PARAPHET CAP

2 1.5" BRICK PROTRUSION

3 FIXED SUNSCREEN SYSTEM MOUNTED TO VERTICAL MULLIONSBY WINDOW MFR. RE: ELVATIONS FOR SPECIFIC LOCATIONS

4 1.5" BRICK PROTRUSION; SOLDIER COURSE

5 CAST STONE SILL

6 FOOTING AND FOUNDATION (SEE STRUCTURAL)

7 CONCRETE SLAB (SEE STRUCTURAL)

8 COMPACTED GRAINULAR FILL

9 DOOR (SEE SCHEDULE)

10 GLASS AND GLAZING SYSTEM

11 ALUMINUM FRAMING SYSTEM

12 FIXTURE AS OCCUR; RE: ELECTRICAL

14 REMOVE AND REPLACE ALL CRACKED OR SPALLED BRICK WITHIN THIS AREA WITH NEW. SEE GENERAL NOTE 1 FOR ALLOWANCE.

15 EXISTING MORTAR JOINS WITHIN AREA ARE CRACKED, LOOSE, MISSING, OPEN, OR GENERALLY DETERIORATED. REMOVE ALL IDENTIFIED MORTAR TO MINIMUM DEPTH OF 1" AND REPOINT WITH NEW MORTAR. SEE GENERAL NOTE 3 FOR ALLOWANCE.

16 OPEN CRACK IN STONE. INJECT THE CRACK FULL WITH EPOXY AND PATCH/FINISH THE EXTERIOR SURFACE OF THE STONE WITH A COLORED CEMENTITIOUS COMPOUND IN ORDER TO BLEND THE REPAIR INTO THE ADJACENT SURFACES OF THE EXISTING STONE. SEE GENERAL NOTE 5 FOR ALLOWANCE.

17 REMOVED EXISTING SEALANT AND BACKER ROD (IF PRESENT) BETWEEN WINDOW OR FRAME, AND ADJACENT MASONRY. INSTALL NEW BACKER ROD AND SEALANT.

18 MASONRY CONTRACTOR SHALL OPEN AREAS INDICATED SIMILAR TO CONDITION [SEE DETAILS]. CONTRACTOR SHALL THEN PROVIDE ACCESS FOR ARCHITECT/ENGINEER TO REVIEW. ONCE REVIEW IS COMPLETE THEN CONTRACTOR SHALL INFILL WITH EXISTING KIND MATERIALS.

19 SALVAGE A MINIMUM OF THREE COURSES OF BRICK ABOVE TOP OF WINDOW TO EXPOSE EXISTING LINTEL. REMOVE EXISTING LINTEL AND FLASHING AND INSTALL NEW LINTEL AND THRU WALL FLASHING AND REPLACE BRICK. SEE GENERAL NOTE 3, 4, 5 FOR ALLOWNACES. SEE DETAIL 6/A5.13, 2/A5.10, 1

20 SALVAGE STONE HEADER AND ONE COURSE OF BRICK ABOVE HEADER TO EXPOSE EXISTING LINTEL. REMOVE EXISTING LINTEL AND FLASHING AND INSTALL NEW LINTEL AND THRU WALL FLASHING. REINSTALL HEADER AND BRICK. SEE GENERAL NOTE 3, 4, 5 FOR ALLOWANCES. SEE DETAIL 6/A5.13, 1

21 SAW CUT BRICK, INSTALL A NEW 1/2" VERTICAL EXPANSION JOINT FREE OF MASONRY AND MORTAR FULL DEPTH. FILL JOINT WITH NEW BACKER ROD AND SEALANT. SEE DETAIL 4/A5.13, 1

22 EXISTING LIMESTONE COPING PIECE TO BE REMOVED AND SALVAGED FOR REINSTALLATION. ALL EXPOSED SURFACES SHALL BE CHEMICALLY CLEANED TO REMOVE DIRT AND STAINS. ALL EXISTING MORTAR AND FLASHING SHALL BE REMOVED FROM HEAD AND BED JOINT SURFACES. INSTALL NEW COPING FLASHING ALONG THE ENTIRE LENGTH OF REPLACED COPING. SEE DETAIL 7/A6.11, 1

23 HATCHING INDICATES AREA OF BRICK WALL TO BE SALVAGED IN ORDER TO REPAIR AND FLASH EMBEDDED STEEL CONDITIONS.

24 REMOVE EXISTING ABANDONED ANCHOR. INFILL CAVITY WITH MORTAR AND RESEAL.

25 RESEAL GAP WITH SILICONE AROUND EXISTING PIPE.

26 INJECT CONCRETE CRACK FULL WITH EPOXY AND PATCH/FINISH THE EXTERIOR SURFACE WITH CEMENTITIOUS COMPOUND IN ORDER TO BLEND THE REPAIR INTO ADJACENT EXISTING SURFACE. SEE GENERAL NOTE 6 FOR ALLOWANCE.

27 CANOPY

28 CAST ALUMINUM LETTERING 18" HIGH CENTERED IN FACIA.

29 LIMESTONE BASE COURSE

30 MASONRY CONTROL JOINT

31 LIMESTONE BASE COURSE

32 EXISTING LIMESTONE COPING. ALL EXPOSED SURFACES TO BE CHEMICALLY CLEANED TO REMOVE DIRT & STAINS. ALL MISALIGNED COPING TO BE REMOVED AND REINSTALLED TO MATCH EXISTING. ALL DETERIORATED MORTAR JOINTS AND SEALANT TO BE CLEANED AND REINSTALLED. 1

NO.	REVISION	DATE
1	ADDENDUM NO. 1	08/31/23
	ISSUED FOR BID	08/23/23

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PROJECT TITLE

RENOVATION AND ADDITION:

MIDLAND COUNTY ESA

MIDLAND, MICHIGAN

SHEET TITLE

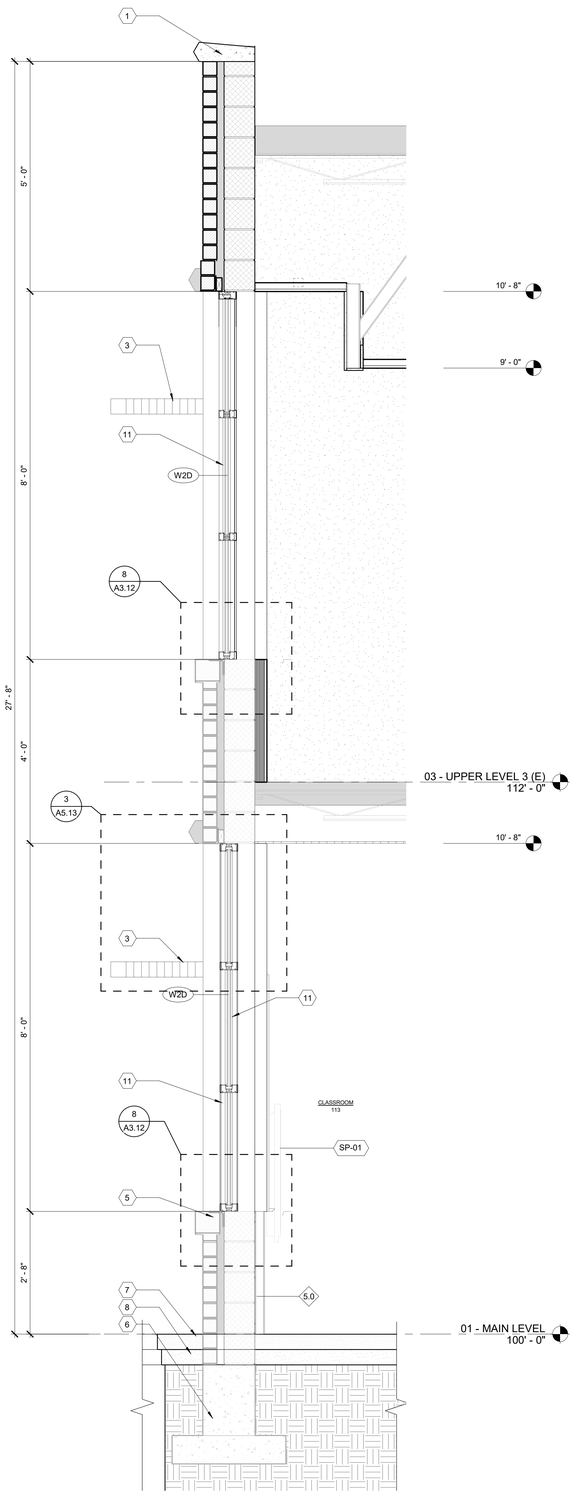
WALL SECTIONS

PROJECT NUMBER 2022006.1

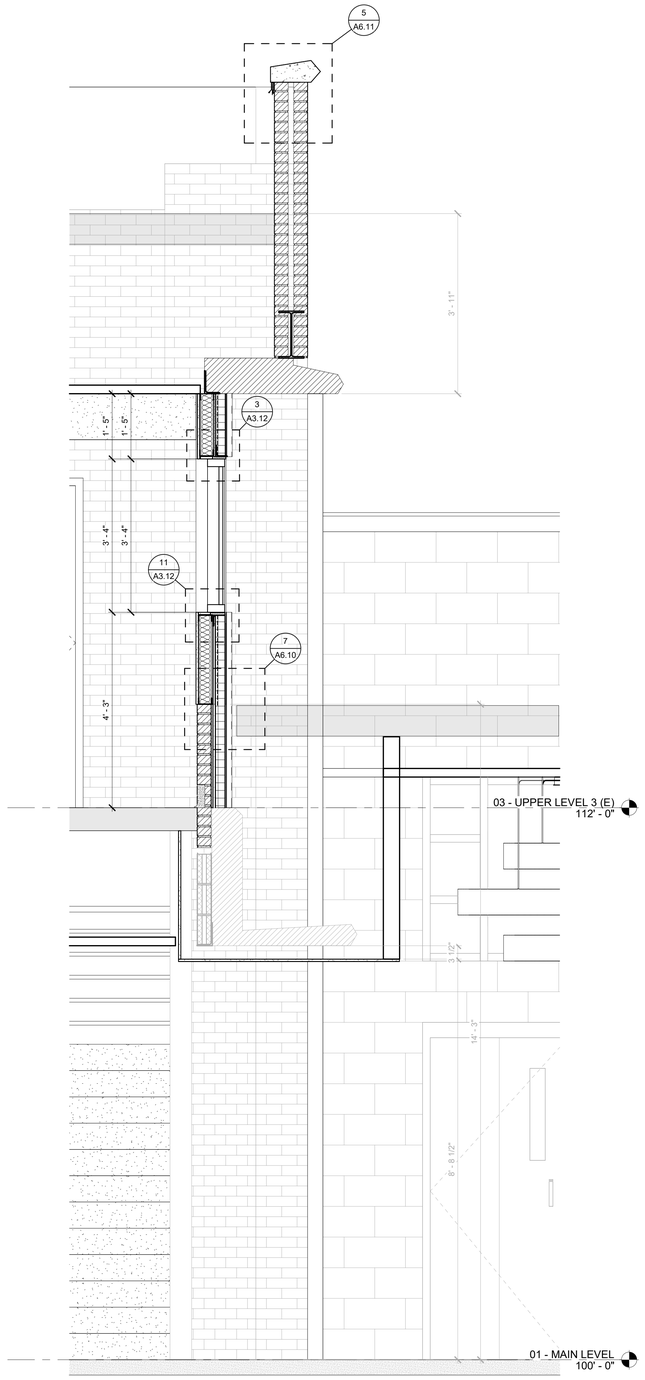
PROJECT DATE AUGUST 23, 2023

CHECKED BY JMJ

SHEET NUMBER A7.03



1 A7.04 SECTION @ CLASSROOM 113 FURRING UP TO WINDOW SILL
SCALE: 3/4" = 1'-0"



1 2 A7.04 SECTION @ CORRIDOR 103 TO NEW ROOF
SCALE: 3/4" = 1'-0"

MATERIAL KEYNOTES

1 CAST STONE PARAPHET CAP
2 1.5" BRICK PROTRUSION
3 FIXED SUNSCREEN SYSTEM MOUNTED TO VERTICAL MULLIONSBY WINDOW MFR. RE: ELVATIONS FOR SPECIFIC LOCATIONS
4 1.5" BRICK PROTRUSION; SOLDIER COURSE
5 CAST STONE SILL
6 FOOTING AND FOUNDATION (SEE STRUCTURAL)
7 CONCRETE SLAB (SEE STRUCTURAL)
8 COMPACTED GRAINULAR FILL
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11 ALUMINUM FRAMING SYSTEM
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18 MASONRY CONTRACTOR SHALL OPEN AREAS INDICATED SIMILAR TO CONDITION (SEE DETAILS). CONTRACTOR SHALL THEN PROVIDE ACCESS FOR ARCHITECT/ENGINEER TO REVIEW. ONCE REVIEW IS COMPLETE THEN CONTRACTOR SHALL INFILL WITH EXISTING KIND MATERIALS.
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20 SALVAGE STONE HEADER AND ONE COURSE OF BRICK ABOVE HEADER TO EXPOSE EXISTING LINTEL. REMOVE EXISTING LINTEL AND FLASHING AND INSTALL NEW LINTEL AND THRU WALL FLASHING. REINSTALL HEADER AND BRICK. SEE GENERAL NOTE 1, 3 FOR ALLOWANCES. SEE DETAIL 3/A5.13
21 SAW CUT BRICK, INSTALL A NEW 1/2" VERTICAL EXPANSION JOINT FREE OF MASONRY AND MORTAR FULL DEPTH. FILL JOINT WITH NEW BACKER ROD AND SEALANT. SEE DETAIL 4/A5.13
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NO.	REVISION	DATE
1	ADDENDUM NO. 1	08/31/23
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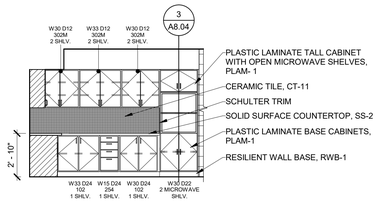
Saginaw, Michigan 48607
989 752 8107

PROJECT TITLE
RENOVATION AND ADDITION:
MIDLAND COUNTY ESA
MIDLAND, MICHIGAN

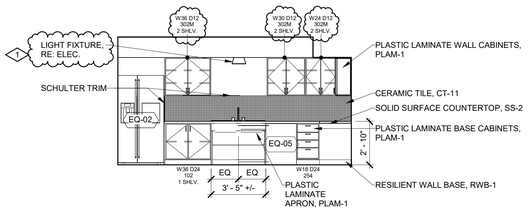
SHEET TITLE
WALL SECTIONS

PROJECT NUMBER	SHEET NUMBER
2022006.1	A7.04
PROJECT DATE: AUGUST 23, 2023	
CHECKED BY: JMJ	



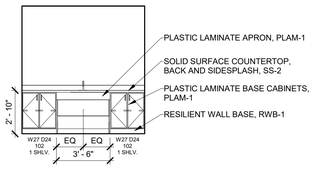
012 STAFF LOUNGE N

1/A8.01 SCALE: 1/4" = 1'-0"



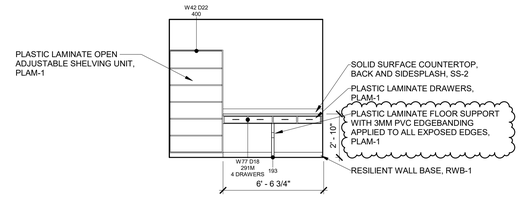
012 STAFF LOUNGE W

2/A8.01 SCALE: 1/4" = 1'-0"



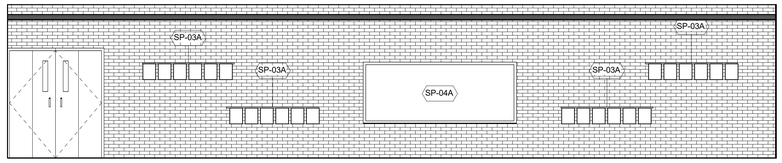
012A MOTHERS RM W

3/A8.01 SCALE: 1/4" = 1'-0"



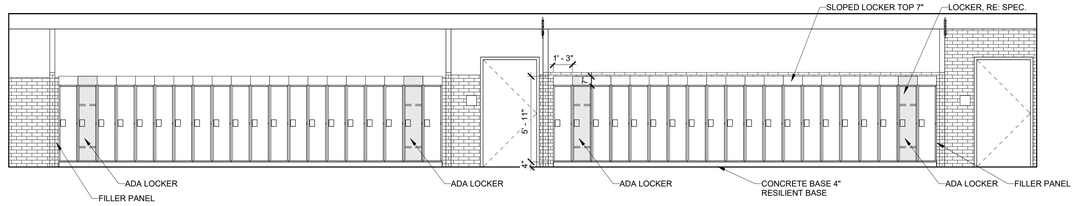
101B MAIL ROOM N

4/A8.01 SCALE: 1/4" = 1'-0"



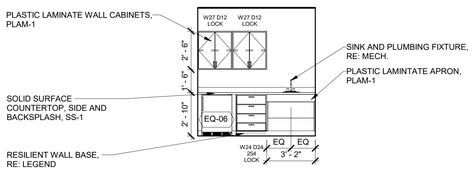
103 CIRCULATION W

5/A8.01 SCALE: 1/4" = 1'-0"



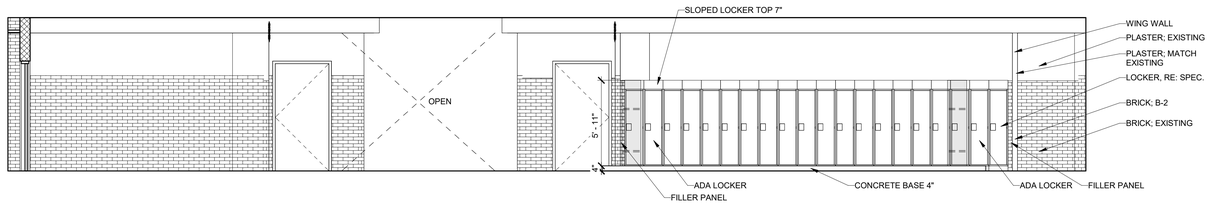
104 CIRCULATION S

6/A8.01 SCALE: 1/4" = 1'-0"



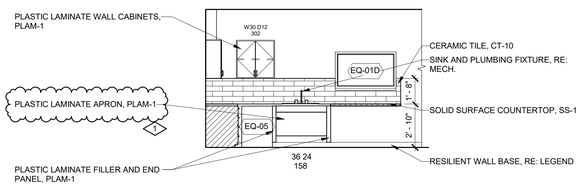
110 CLINIC W

7/A8.01 SCALE: 1/4" = 1'-0"



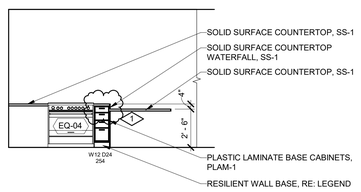
104 CIRCULTION W

8/A8.01 SCALE: 1/4" = 1'-0"



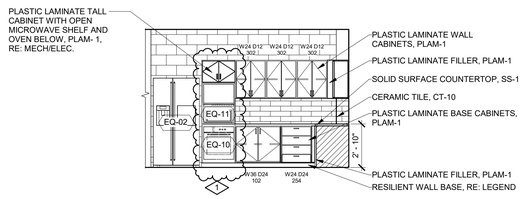
112 LIFE SKILLS N

9/A8.01 SCALE: 1/4" = 1'-0"



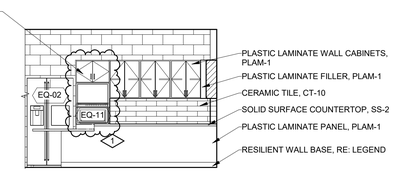
112 LIFE SKILLS E

10/A8.01 SCALE: 1/4" = 1'-0"



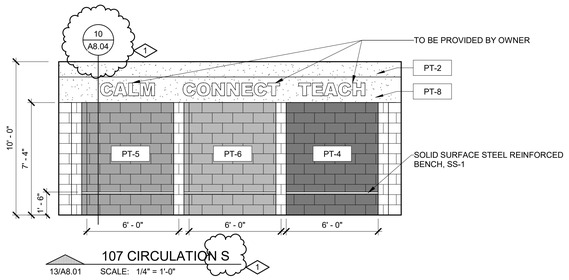
112 LIFE SKILLS W-2

11/A8.01 SCALE: 1/4" = 1'-0"



112 LIFE SKILLS W-1

12/A8.01 SCALE: 1/4" = 1'-0"



107 CIRCULATION S

13/A8.01 SCALE: 1/4" = 1'-0"

SPECIALTIES SCHEDULE

ID#	ITEM DESCRIPTION	HEIGHT	WIDTH	FURNISHED BY	INSTALLED BY	COMMENTS
SP-01	MARKERBOARD	4' - 0"	4' - 0"	G.C.	G.C.	
SP-01A	MARKERBOARD	4' - 0"	6' - 0"	G.C.	G.C.	
SP-01B	GLASS MARKERBOARD	4' - 0"	8' - 0"	G.C.	G.C.	
SP-02	TACKBOARD	4' - 0"	4' - 0"	G.C.	G.C.	
SP-02A	TACKBOARD	4' - 0"	6' - 0"	G.C.	G.C.	
SP-02B	TACKBOARD	4' - 0"	8' - 0"	G.C.	G.C.	
SP-03A	ART HANGING SYSTEM	0' - 1"	6' - 0"	G.C.	G.C.	
SP-03B	ART HANGING SYSTEM	0' - 1"	2' - 0"	G.C.	G.C.	

EQUIPMENT SCHEDULE

ID#	ITEM DESCRIPTION	HEIGHT	WIDTH	FURNISHED BY	INSTALLED BY	COMMENTS
EQ-01A	TELEVISION			OWNER	G.C.	
EQ-01B	TELEVISION			OWNER	G.C.	
EQ-01C	TELEVISION			OWNER	G.C.	
EQ-01D	TELEVISION			OWNER	G.C.	
EQ-02	REFRIGERATOR			OWNER	G.C.	
EQ-03A	LIGHT DISPLAY BOARDS			G.C.	G.C.	WALL MOUNTED
EQ-03B	LIGHT DISPLAY BOARDS			G.C.	G.C.	CEILING/FLOOR MOUNTED
EQ-04	STOVE			OWNER	G.C.	
EQ-05	DISHWASHER			OWNER	G.C.	
EQ-06	UNDERCOUNTER REFRIGERATOR			OWNER	G.C.	
EQ-07	COPIER			OWNER	G.C.	
EQ-08	WASHER			OWNER	G.C.	
EQ-09	DRYER			OWNER	G.C.	
EQ-10	WALL OVEN			OWNER	G.C.	
EQ-11	MICROWAVE			OWNER		

CASEWORK GENERAL NOTES:

1. 1 1/2" FILLR PANELS SHALL OCCUR AT THE WALL AT ALL CAINET LOCATIONS ABUTTING A WALL U.O.N.
2. WHEN FILLER PANELS ARE REQUIRED AT BOTH ENSS OF CASEWORK TERMINATION, BOTH FILLER PANELS SHALL BE EQUAL WIDTH.
3. PROVIDE 4" BACKSPLASH AND SIDE SPLASH AT ALL COUNTERTOPS WITH SINKS, UNLESS NOTED OTHERWISE.
4. COORDINATE ROUGH-IN FOR ELECTRICAL OUTLETS, SWITCHES AND UNDER CABINET LIGHTING WITH ELECTRICAL DRAWINGS.
5. CONTRACTOR TO VERIFY MEP AND DIMENSIONAL ROUGH-IN REQUIREMENTS OF ALL OWNER PROVIDED EQUIPMENT AND APPLIANCES.
6. PROVIDE 4" TOE-KICK, TYPICAL U.O.N.
7. PROVIDE GROMMETS IN COUNTERTOPD AS REQUIRED BY THE OWNER. FIELD VERIFY LOCATIONS.
8. PROVIDE 2" RADIUS AT THE END OF EXPOSED COUNTERTOPS U.O.N.
9. PROVIDE WALL BRACKET SUPPORTS 30" O.C. TO SUPPORT COUNTERTOP AT CONTINUOUS KNEE SPACE.
10. PROVIDE LOCKS ON ALL CASEWOK DOORS AND DRAWERS.
11. PROVIDE QUANTITY OF SHELVES PER UNIT AS INDICATED ON DRAWING.

NO.	REVISION	DATE
1	ADDENDUM NO. 1	08/31/23
	ISSUED FOR BID	08/23/23

WTAARCH.COM

WTA ARCHITECTS

100 S Jefferson Ave, Suite 601
Saginaw, Michigan 48607
989 752 8107

PROJECT TITLE

RENOVATION AND ADDITION:
MIDLAND COUNTY ESA

MIDLAND, MICHIGAN

SHEET TITLE

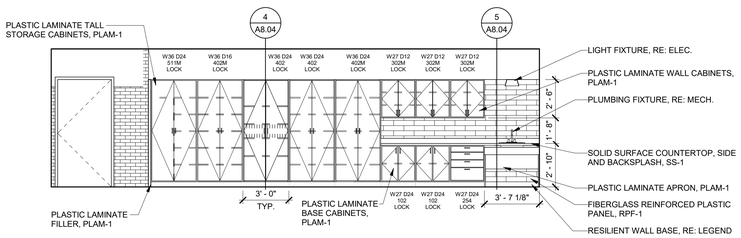
INTERIOR ELEVATIONS

PROJECT NUMBER
2022006.1

PROJECT DATE
AUGUST 23, 2023

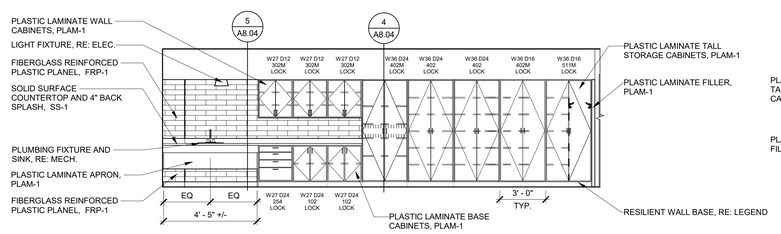
CHECKED BY
JMJ

SHEET NUMBER
A8.01



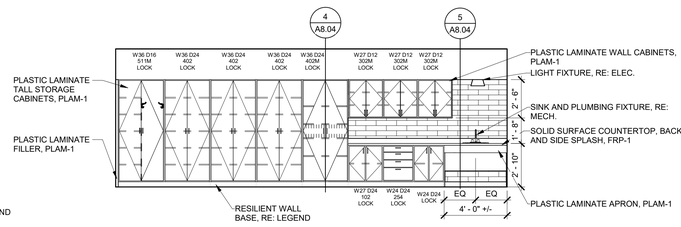
113 POST-SECONDARYCLASSROOM W

1/A8.02 SCALE: 1/4" = 1'-0"



114 POST-SECONDARY CLASSROOM E

2/A8.02 SCALE: 1/4" = 1'-0"

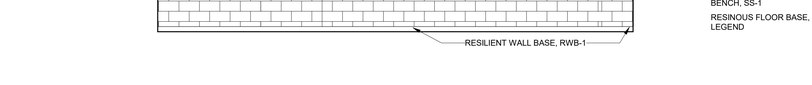


115 POST-SECONDARY CLASSROOM W

3/A8.02 SCALE: 1/4" = 1'-0"

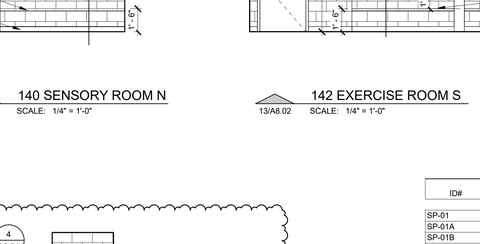
CASEWORK GENERAL NOTES:

1. 1 1/2" FILLR PANELS SHALL OCCUR AT THE WALL AT ALL CAINET LOCATIONS ABUTTING A WALL U.O.N.
2. WHEN FILLER PANELS ARE REQUIRED AT BOTH ENSS OF CASEWORK TERMINATION, BOTH FILLER PANELS SHALL BE EQUAL WIDTH.
3. PROVIDE 4" BACKSPLASH AND SIDE SPLASH AT ALL COUNTERTOPS WITH SINKS, UNLESS NOTED OTHERWISE.
4. COORDINATE ROUGH-IN FOR ELECTRICAL OUTLETS, SWITCHES AND UNDER CABINET LIGHTING WITH ELECTRICAL DRAWINGS.
5. CONTRACTOR TO VERIFY MEP AND DIMENSIONAL ROUGH-IN REQUIREMENTS OF ALL OWNER PROVIDED EQUIPMENT AND APPLIANCES.
6. PROVIDE 4" TOE-KICK, TYPICAL U.O.N.
7. PROVIDE GROMMETS IN COUNTERTOPD AS REQUIRED BY THE OWNER. FIELD VERIFY LOCATIONS.
8. PROVIDE 2" RADIUS AT THE END OF EXPOSED COUNTERTOPS U.O.N.
9. PROVIDE WALL BRACKET SUPPORTS 30" O.C. TO SUPPORT COUNTERTOP AT CONTINUOUS KNEE SPACE.
10. PROVIDE LOCKS ON ALL CASEWOK DOORS AND DRAWERS.
11. PROVIDE QUANTITY OF SHELVES PER UNIT AS INDICATED ON DRAWING.



116 POST-SECONDARY CLASSROOM E

4/A8.02 SCALE: 1/4" = 1'-0"



130 MAT ROOM S

5/A8.02 SCALE: 1/4" = 1'-0"

133 K12 CLASSROOM N

7/A8.02 SCALE: 1/4" = 1'-0"

139 K12 CLASSROOM E

8/A8.02 SCALE: 1/4" = 1'-0"

TYP. K12 CLASSROOM 135 139 N

9/A8.02 SCALE: 1/4" = 1'-0"

1

TYP. K12 CLASSROOM 141 145 N

10/A8.02 SCALE: 1/4" = 1'-0"

1

TEACHING WALL 113/115/121/123/127/129/133 K12 CLASSROOM

11/A8.02 SCALE: 1/4" = 1'-0"

140 SENSORY ROOM N

12/A8.02 SCALE: 1/4" = 1'-0"

142 EXERCISE ROOM S

13/A8.02 SCALE: 1/4" = 1'-0"

K12 CLASSROOM 141 145 N-2

14/A8.02 SCALE: 1/4" = 1'-0"

1

SK-12 CLASSROOM 135/139 PRIVATE DESK N

15/A8.02 SCALE: 1/4" = 1'-0"

144 OPEN OFFICE S

16/A8.02 SCALE: 1/4" = 1'-0"

1

SPECIALTIES SCHEDULE

ID#	ITEM DESCRIPTION	HEIGHT	WIDTH	FURNISHED BY	INSTALLED BY	COMMENTS
SP-01	MARKERBOARD	4' - 0"	4' - 0"	G.C.	G.C.	
SP-01A	MARKERBOARD	4' - 0"	6' - 0"	G.C.	G.C.	
SP-01B	GLASS MARKERBOARD	4' - 0"	8' - 0"	G.C.	G.C.	
SP-02	TACKBOARD	4' - 0"	4' - 0"	G.C.	G.C.	
SP-02A	TACKBOARD	4' - 0"	6' - 0"	G.C.	G.C.	
SP-02B	TACKBOARD	4' - 0"	8' - 0"	G.C.	G.C.	
SP-03A	ART HANGING SYSTEM	0' - 1"	6' - 0"	G.C.	G.C.	
SP-03B	ART HANGING SYSTEM	0' - 1"	2' - 0"	G.C.	G.C.	

EQUIPMENT SCHEDULE

ID#	ITEM DESCRIPTION	HEIGHT	WIDTH	FURNISHED BY	INSTALLED BY	COMMENTS
EQ-01A	TELEVISION			OWNER	G.C.	
EQ-01B	TELEVISION			OWNER	G.C.	
EQ-01C	TELEVISION			OWNER	G.C.	
EQ-01D	TELEVISION			OWNER	G.C.	
EQ-02	REFRIGERATOR			OWNER	G.C.	
EQ-03A	LIGHT DISPLAY BOARDS			G.C.	G.C.	WALL MOUNTED
EQ-03B	LIGHT DISPLAY BOARDS			G.C.	G.C.	CEILING/FLOOR MOUNTED
EQ-04	STOVE			OWNER	G.C.	
EQ-05	DISHWASHER			OWNER	G.C.	
EQ-06	UNDERCOUNTER REFRIGERATOR			OWNER	G.C.	
EQ-07	COPIER			OWNER	G.C.	
EQ-08	WASHER			OWNER	G.C.	
EQ-09	DRYER			OWNER	G.C.	
EQ-10	WALL OVEN			OWNER	G.C.	
EQ-11	MICROWAVE			OWNER		

NO.	REVISION	DATE
1	ADDENDUM NO. 1	08/31/23
	ISSUED FOR BID	08/23/23

WTAARCH.COM

WTA ARCHITECTS

100 S Jefferson Ave, Suite 601
Saginaw, Michigan 48607
989 752 8107

PROJECT TITLE

RENOVATION AND ADDITION:
MIDLAND COUNTY ESA

MIDLAND, MICHIGAN

SHEET TITLE

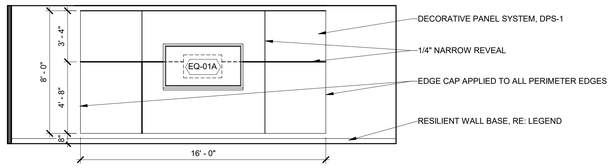
INTERIOR ELEVATIONS

PROJECT NUMBER 2022006.1

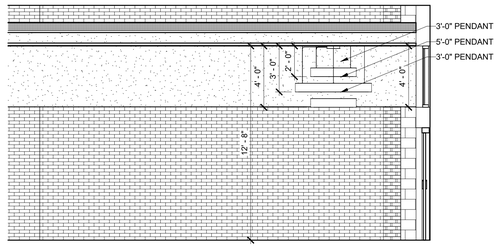
PROJECT DATE AUGUST 23, 2023

CHECKED BY JMJ

SHEET NUMBER A8.02



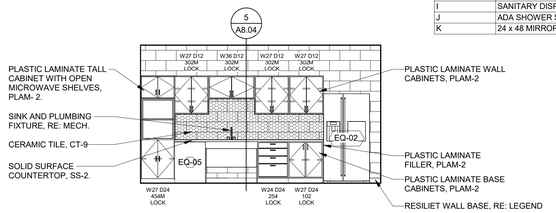
1/A8.03 210 ADMIN CONFERENCE ROOM N SCALE: 1/4" = 1'-0"



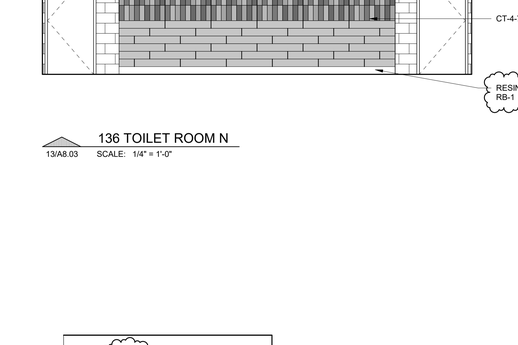
2/A8.03 106 CIRCULATION N SCALE: 1/4" = 1'-0"

TOILET ACCESSORIES SCHEDULE

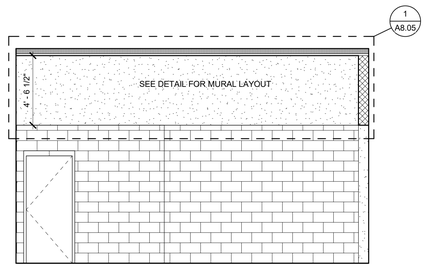
Type Mark	ITEM DESCRIPTION	FURNISHED BY	INSTALLED BY	COMMENTS
A	18" VERTICAL GRAB BAR	G.C.	G.C.	
B	36" GRAB BAR	G.C.	G.C.	
C	42" GRAB BAR	G.C.	G.C.	
D	TOILET PAPER DISPENSER	OWNER	G.C.	
F	PAPER TOWEL DISPENSER	OWNER	G.C.	
G	24 X 36 MIRROR	G.C.	G.C.	
H	SOAP DISPENSER	G.C.	G.C.	
I	SANITARY DISPOSAL	G.C.	G.C.	
J	ADA SHOWER SEAT	G.C.	G.C.	WALL MOUNTED
K	24 x 48 MIRROR	G.C.	G.C.	STAINLESS STEEL TRIM



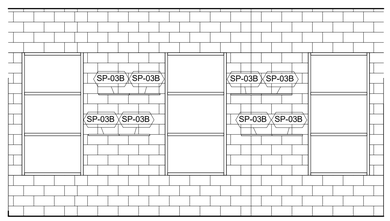
3/A8.03 131 THE HIVE PT4 SCALE: 1/4" = 1'-0"



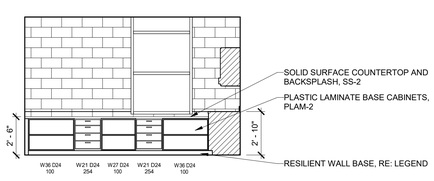
4/A8.03 131 THE HIVE PT1 SCALE: 1/4" = 1'-0"



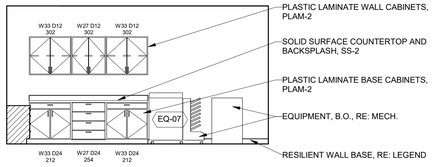
5/A8.03 131 THE HIVE PT2 SCALE: 1/4" = 1'-0"



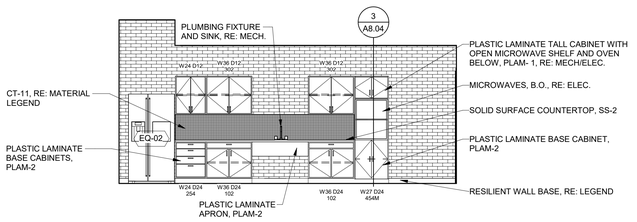
6/A8.03 131 THE HIVE PT 3 SCALE: 1/4" = 1'-0"



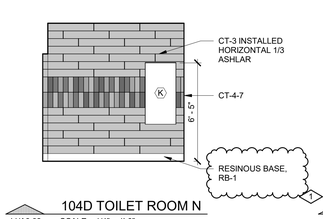
8/A8.03 215A WORK ROOM E SCALE: 1/4" = 1'-0"



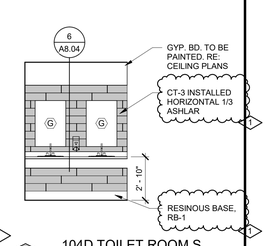
9/A8.03 215A WORK ROOM S SCALE: 1/4" = 1'-0"



10/A8.03 315 STAFF LOUNGE S SCALE: 1/4" = 1'-0"



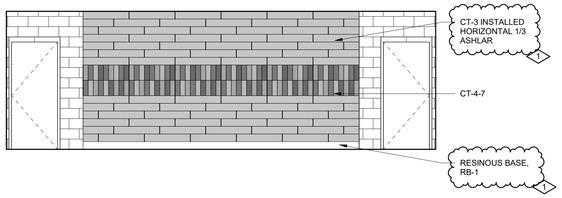
11/A8.03 104D TOILET ROOM N SCALE: 1/4" = 1'-0"



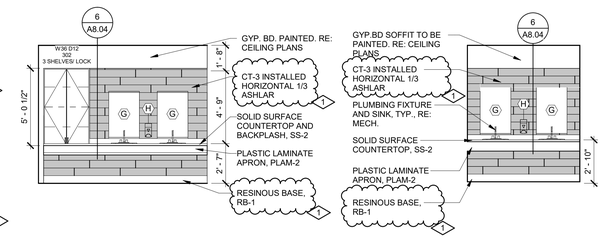
12/A8.03 104D TOILET ROOM S SCALE: 1/4" = 1'-0"

CASEWORK GENERAL NOTES:

1. 1 1/2" FILLR PANELS SHALL OCCUR AT THE WALL AT ALL CAINET LOCATIONS ABUTTING A WALL U.O.N.
2. WHEN FILLER PANELS ARE REQUIRED AT BOTH ENSS OF CASEWORK TERMINATION, BOTH FILLER PANELS SHALL BE EQUAL WIDTH.
3. PROVIDE 4" BACKSPLASH AND SIDE SPLASH AT ALL COUNTERTOPS WITH SINKS, UNLESS NOTED OTHERWISE.
4. COORDINATE ROUGH-IN FOR ELECTRICAL OUTLETS, SWITCHES AND UNDER CABINET LIGHTING WITH ELECTRICAL DRAWINGS.
5. CONTRACTOR TO VERIFY MEP AND DIMENSIONAL ROUGH-IN REQUIREMENTS OF ALL OWNER PROVIDED EQUIPMENT AND APPLIANCES.
6. PROVIDE 4" TOE-KICK, TYPICAL U.O.N.
7. PROVIDE GROMMETS IN COUNTERTOPD AS REQUIRED BY THE OWNER. FIELD VERIFY LOCATIONS.
8. PROVIDE 2" RADIUS AT THE END OF EXPOSED COUNTERTOPS U.O.N.
9. PROVIDE WALL BRACKET SUPPORTS 30" O.C. TO SUPPORT COUNTERTOP AT CONTINUOUS KNEE SPACE.
10. PROVIDE LOCKS ON ALL CASEWOK DOORS AND DRAWERS.
11. PROVIDE QUANTITY OF SHELVES PER UNIT AS INDICATED ON DRAWING.

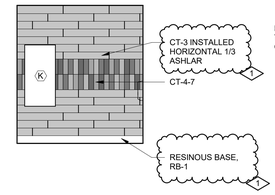


13/A8.03 136 TOILET ROOM N SCALE: 1/4" = 1'-0"

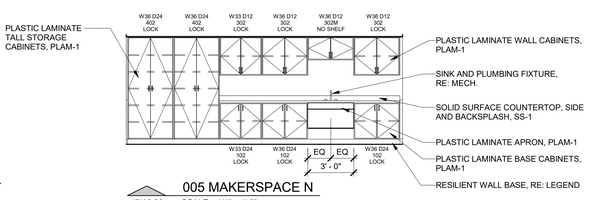


14/A8.03 136 TOILET ROOM S (TYP.) SCALE: 1/4" = 1'-0"

15/A8.03 104C TOILET ROOM N SCALE: 1/4" = 1'-0"



16/A8.03 104C TOILET ROOM S SCALE: 1/4" = 1'-0"



17/A8.03 005 MAKERSPACE N SCALE: 1/4" = 1'-0"

18 A8.03 THE HIVE 131 ISLAND SCALE: 1/4" = 1'-0"

SPECIALTIES SCHEDULE

ID#	ITEM DESCRIPTION	HEIGHT	WIDTH	FURNISHED BY	INSTALLED BY	COMMENTS
SP-01	MARKERBOARD	4' - 0"	4' - 0"	G.C.	G.C.	
SP-01A	MARKERBOARD	4' - 0"	6' - 0"	G.C.	G.C.	
SP-01B	GLASS MARKERBOARD	4' - 0"	8' - 0"	G.C.	G.C.	
SP-02	TACKBOARD	4' - 0"	4' - 0"	G.C.	G.C.	
SP-02A	TACKBOARD	4' - 0"	6' - 0"	G.C.	G.C.	
SP-02B	TACKBOARD	4' - 0"	8' - 0"	G.C.	G.C.	
SP-03A	ART HANGING SYSTEM	0' - 1"	6' - 0"	G.C.	G.C.	
SP-03B	ART HANGING SYSTEM	0' - 1"	2' - 0"	G.C.	G.C.	

EQUIPMENT SCHEDULE

ID#	ITEM DESCRIPTION	HEIGHT	WIDTH	FURNISHED BY	INSTALLED BY	COMMENTS
EQ-01A	TELEVISION			OWNER	G.C.	
EQ-01B	TELEVISION			OWNER	G.C.	
EQ-01C	TELEVISION			OWNER	G.C.	
EQ-01D	TELEVISION			OWNER	G.C.	
EQ-02	REFRIGERATOR			OWNER	G.C.	
EQ-03A	LIGHT DISPLAY BOARDS			G.C.	G.C.	WALL MOUNTED
EQ-03B	LIGHT DISPLAY BOARDS			G.C.	G.C.	CEILING/FLOOR MOUNTED
EQ-04	STOVE			OWNER	G.C.	
EQ-05	DISHWASHER			OWNER	G.C.	
EQ-06	UNDERCOUNTER REFRIGERATOR			OWNER	G.C.	
EQ-07	COPIER			OWNER	G.C.	
EQ-08	WASHER			OWNER	G.C.	
EQ-09	DRYER			OWNER	G.C.	
EQ-10	WALL OVEN			OWNER	G.C.	
EQ-11	MICROWAVE			OWNER		

NO.	REVISION	DATE
1	ADDENDUM NO. 1	08/31/23
	ISSUED FOR BID	08/23/23

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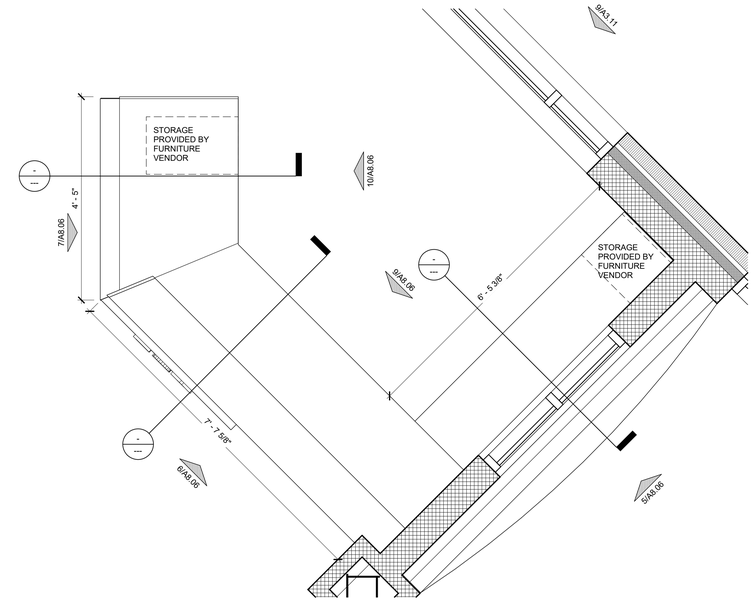
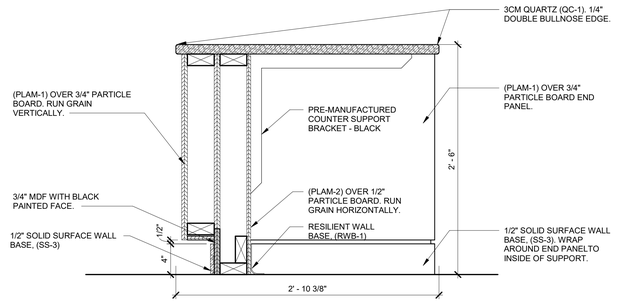
PROJECT TITLE
RENOVATION AND ADDITION:
MIDLAND COUNTY ESA
MIDLAND, MICHIGAN

SHEET TITLE
INTERIOR ELEVATIONS

PROJECT NUMBER 2022006.1
PROJECT DATE AUGUST 23, 2023
CHECKED BY JMJ
SHEET NUMBER A8.03



1 A8.06 RECEPTION PLAN DETAIL Copy 1
SCALE: 3/4" = 1'-0"



2 A8.06 RECEPTION SECTION 2
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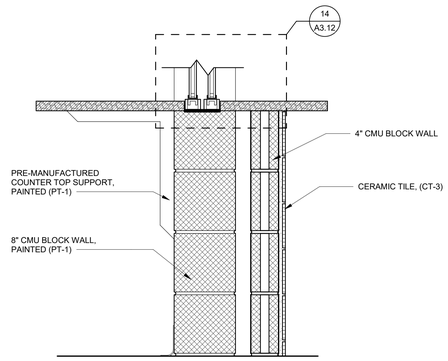
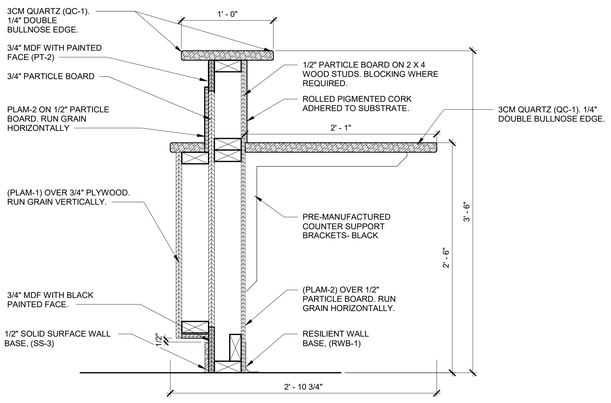
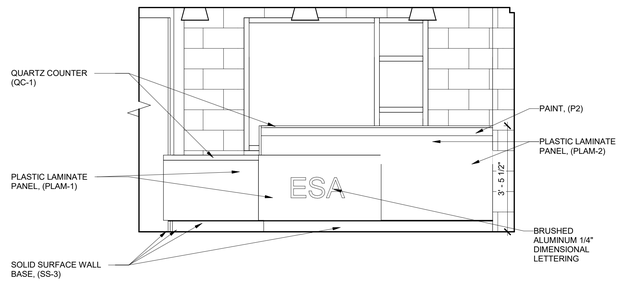


3 A8.06 DETAIL 2 RECEPTION COUNTER
SCALE: 1 1/2" = 1'-0"

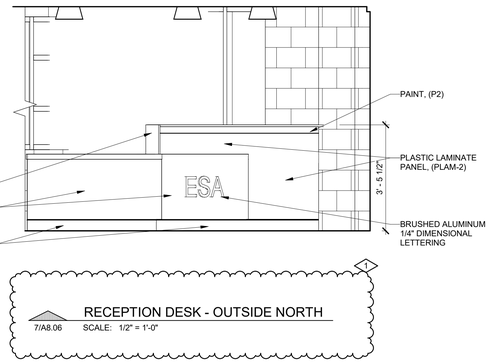


4 A8.06 DETAIL 3 RECEPTION COUNTER
SCALE: 1 1/2" = 1'-0"

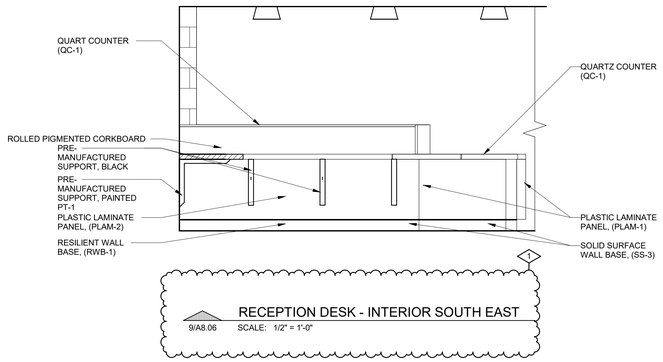
5/A8.06 SECURE VESTIBULE 100 SOUTH WEST
SCALE: 1/2" = 1'-0"



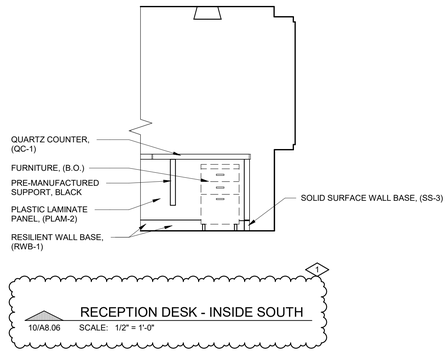
6/A8.06 RECEPTION DESK - OUTSIDE NORTH WEST
SCALE: 1/2" = 1'-0"



7/A8.06 RECEPTION DESK - OUTSIDE NORTH
SCALE: 1/2" = 1'-0"



9/A8.06 RECEPTION DESK - INTERIOR SOUTH EAST
SCALE: 1/2" = 1'-0"



10/A8.06 RECEPTION DESK - INSIDE SOUTH
SCALE: 1/2" = 1'-0"

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1	ADDENDUM NO. 1	08/31/23
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PROJECT TITLE
RENOVATION AND ADDITION:
MIDLAND COUNTY ESA

MIDLAND, MICHIGAN

SHEET TITLE
CASEWORK DETAILS AND ELEVATIONS

PROJECT NUMBER 2022006.1
PROJECT DATE AUGUST 23, 2023
CHECKED BY JMJ
SHEET NUMBER A8.06

1 A9.10 REFLECTED CEILING PLAN LOWER LEVEL - AREA A

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

REFLECTED CEILING LEGEND:

- 2x4 LIGHT FIXTURE (REFER TO ELECTRICAL)
- 2 X 2 LIGHT FIXTURE (REFER TO ELECTRICAL
- 1x4 LIGHT FIXTURE (REFER TO ELECTRICAL)
- CAN LIGHT FIXTURE (REFER TO ELECTRICAL)
- LIGHT FIXTURE (REFER TO ELECTRICAL)
- LIGHT FIXTURE (REFER TO ELECTRICAL)
- WALL MOUNTED LIGHT FIXTURE (REFER TO ELECTRICAL)
- UNDER COUNTER LIGHT FIXTURE (REFER TO ELECTRICAL)
- SUPPLY AIR DIFFUSER (REFER TO MECHANICAL)
- RETURN AIR DIFFUSER (REFER TO MECHANICAL)
- MECHANICAL ITEM (REFER TO MECHANICAL)
- EXIT — EXIT LIGHT FIXTURE (REFER TO ELECTRICAL)

CEILING TYPES

- (ACT-1) 2x2 CEILING (MIN. NRC .7)
- (ACT-2) SECURE LAY-IN CEILING SYSTEM
- (AP-1) TECTUM SHAPES HEXAGON; COLOR AS INDICATED IN FINISH SCHEDULE
- (AP-2) 4" X 8" ACOUSTIC PET BAFFLES; COLOR INDICATED IN FINISH SCHEDULE
- (AP-3) 2" X 10" ACOUSTIC PET BAFFLES; COLOR INDICATED IN FINISH SCHEDULE
- (AP-4) ACOUSTIC FIBERGLASS PANEL
- EXPOSED CEILING; PAINT STRUCTURE AND EXPOSED CEILING PT-10. ALL ADJACENT SURFACES TO BE CLEANED OF OVERSPRAY.
- EXPOSED CEILING; PAINT
- GYPSUM BOARD CEILING, PAINT.
- SUSPENDED 8'-0" X 8' - 0" UNISTRUT GRID AT 10' - 0" A.F.F.;PAINTED, FINISH PT-11

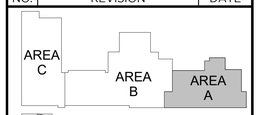
CEILING PLAN GENERAL NOTES:

1. ALL NOTED CEILING HEIGHTS ARE RELATIVE TO THE FINISH FLOOR BELOW.
2. ALL DIMENSIONS ARE TO FINISH FACE OF SOFFIT OR PARTITION AND TO CENTERLINE OF LIGHT FIXTURES U.O.N.
3. CENTER CEILING GRID IN BOTH DIRECTIONS IN ROOM U.O.N.
4. CENTER RECESSED DOWN LIGHTS AND SPRINKLER HEADS IN CEILING SYSTEM U.O.N.
5. REFER TO MECHANICAL DRAWINGS FOR DIFFUSER TYPES. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT PLACEMENT OF DEVICES. NOTIFY ARCHITECT OF ANY POTENTIAL CONFLICTS PRIOR TO PROCEEDING WITH WORK.
6. REFER TO ELECTRICAL DRAWINGS FOR LIGHT FIXTURE TYPES. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT PLACEMENT OF FIXTURES. NOTIFY ARCHITECT OF ANY POTENTIAL CONFLICTS PRIOR TO PROCEEDING WITH WORK.
7. SEE INTERIOR ELEVATIONS ON THE A8.0 SHEETS OR DEDICATED INTERIOR REFLECTED CEILING PLANS, AS OCCURS FOR ACCENT COLORS AND SPECIAL FINISHES.
8. UNDER CABINET LIGHTING (UCL) INDICATED ON INTERIOR ELEVATIONS.
9. ALL AREAS EXPOSED TO STRUCTURE WILL HAVE EXPOSED WIRING PLACED IN FLEXIBLE CONDUIT. COORDINATE WITH ELECTRICAL.
10. ACCENT PAINT NOTED ON CEILING SOFFITS TO COVER VERTICAL & HORIZONTAL FACES.
11. ALL GYP. BD. CEILINGS & BULKHEADS TO BE PAINTED PT-11 (WHITE) UNLESS NOTED OTHERWISE.
12. ALL WALLS ARE TO GO TO THE UNDERSIDE OF THE DECK U.O.N. PROVIDE ACOUSTICAL SEALANT BETWEEN ALL CLASSROOM, WORK ROOM, LOUNGES, CONFERENCE AND OFFICE SPACES

C# CEILING KEYNOTES

1 UNISTRUT GRID; B.O.D. PART NO. UGR-B-2P-66-HD; SEE STRUCTURAL FOR FINAL DESIGN LOADS, FINAL DESIGN BY SUPPLIER
2 CEILING LIFT SYSTEM
3 PRIVACY CURTAIN TRACK

NO.	REVISION	DATE
1	ADDENDUM NO. 1	08/31/23
	ISSUED FOR BID	08/23/23



KEY PLAN
NORTH NO SCALE

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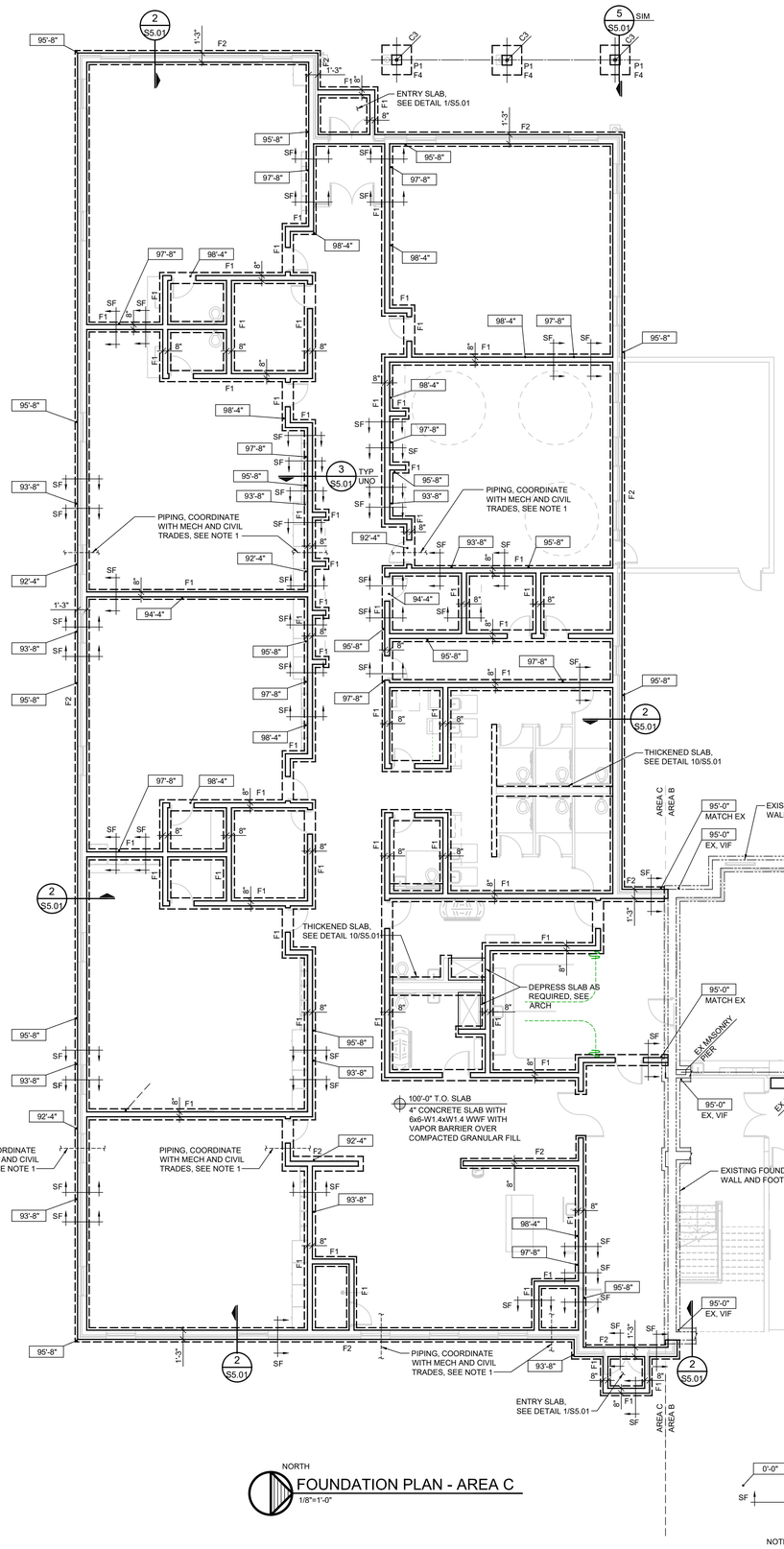
PROJECT TITLE
RENOVATION AND ADDITION:
MIDLAND COUNTY ESA
MIDLAND, MICHIGAN

SHEET TITLE
REFLECTED CEILING PLAN - AREA A - LOWER LEVEL

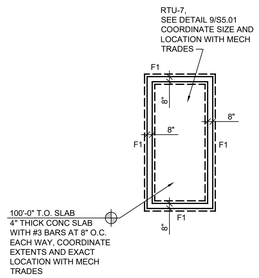
PROJECT NUMBER 2022006.1
PROJECT DATE AUGUST 23, 2023
CHECKED BY JMJ
SHEET NUMBER A9.10

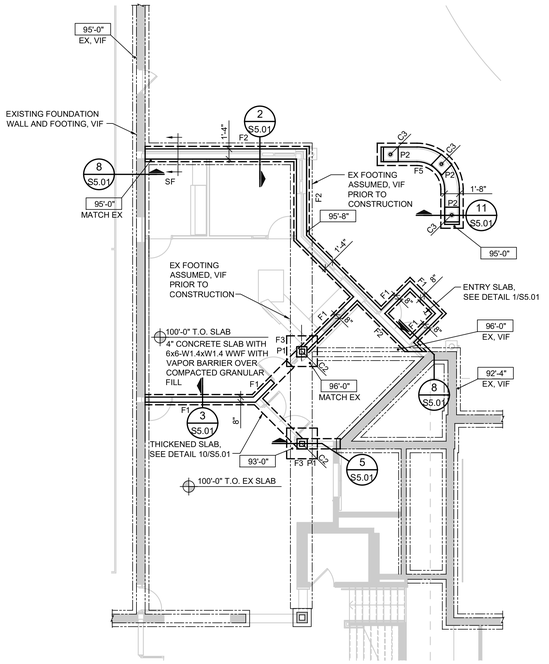


NORTH

FOUNDATION PLAN - AREA C

1/8"=1'-0"

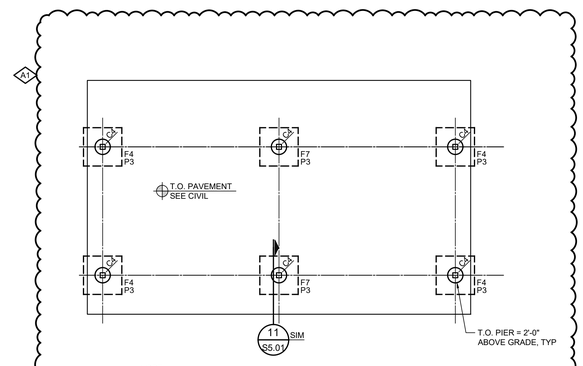




NORTH

PARTIAL FOUNDATION PLAN - AREA B

1/8"=1'-0"

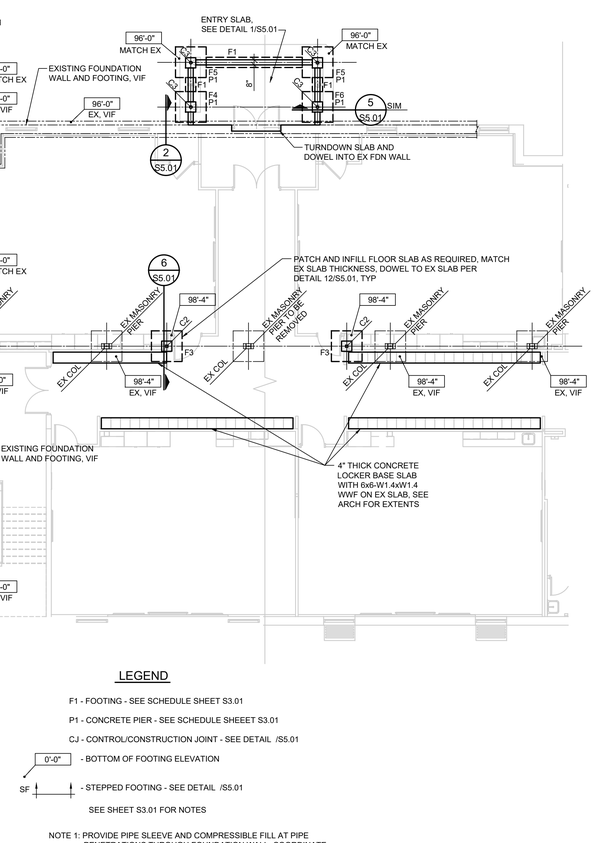


NORTH

FOUNDATION PLAN - FLEET CANOPY

1/8"=1'-0"

TYP B.O. FOOTING = 5'-0" BELOW GRADE



LEGEND

F1 - FOOTING - SEE SCHEDULE SHEET S3.01

P1 - CONCRETE PIER - SEE SCHEDULE SHEEET S3.01

CJ - CONTROL/CONSTRUCTION JOINT - SEE DETAIL /S5.01

0'-0" - BOTTOM OF FOOTING ELEVATION

SF - STEPPED FOOTING - SEE DETAIL /S5.01

SEE SHEET S3.01 FOR NOTES

NOTE 1: PROVIDE PIPE SLEEVE AND COMPRESSIBLE FILL AT PIPE PENETRATIONS THROUGH FOUNDATION WALL. COORDINATE SIZE AND LOCATION WITH MECHANICAL TRADES, TYP

NO.	REVISION	DATE
A1	ADDENDUM 1	08/31/23
	ISSUE FOR BID	08/23/23

AREA C | AREA B | AREA A

KEY PLAN

NORTH NO SCALE

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PROJECT TITLE

ADDITION AND RENOVATION:

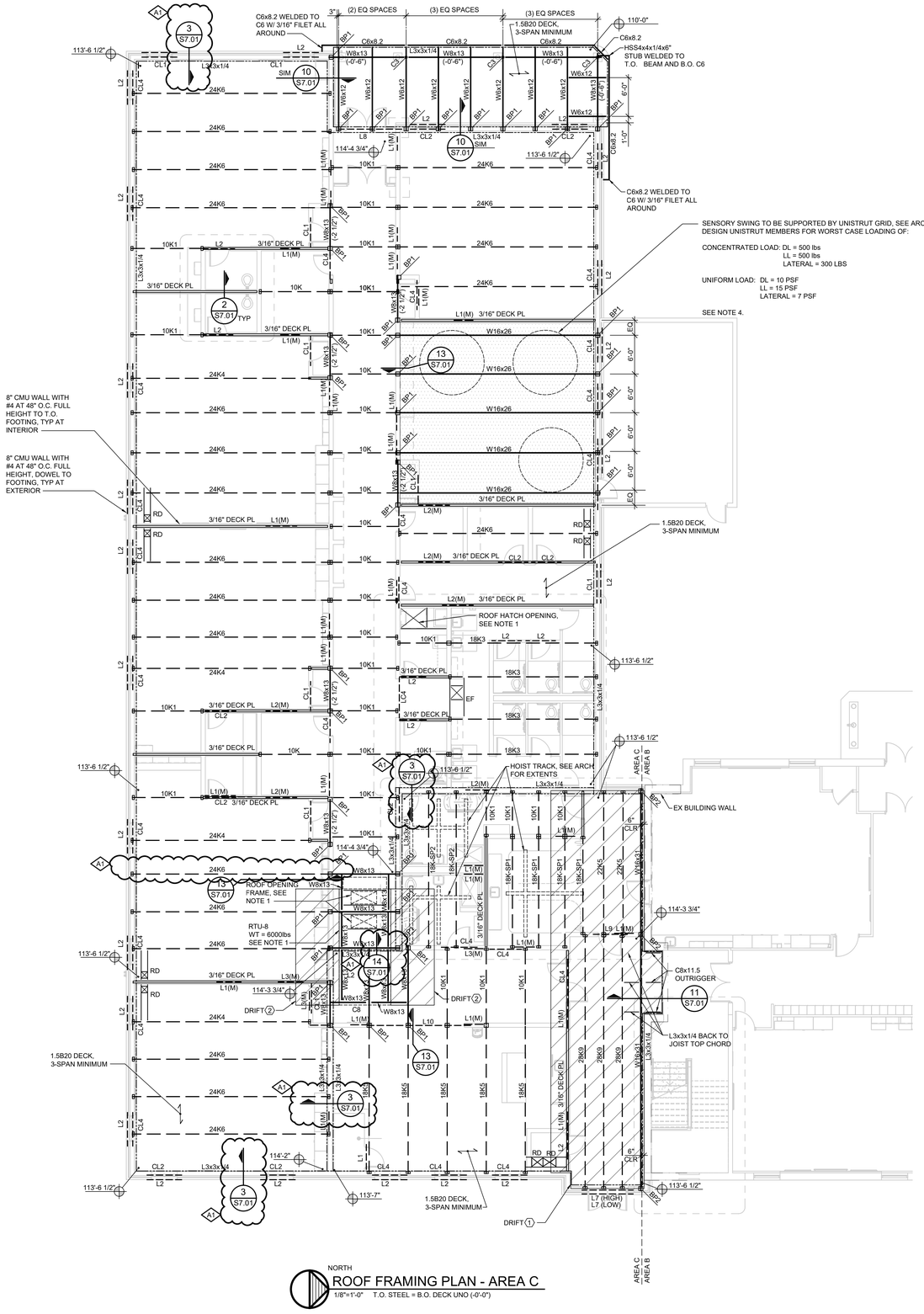
MIDLAND COUNTY ESA

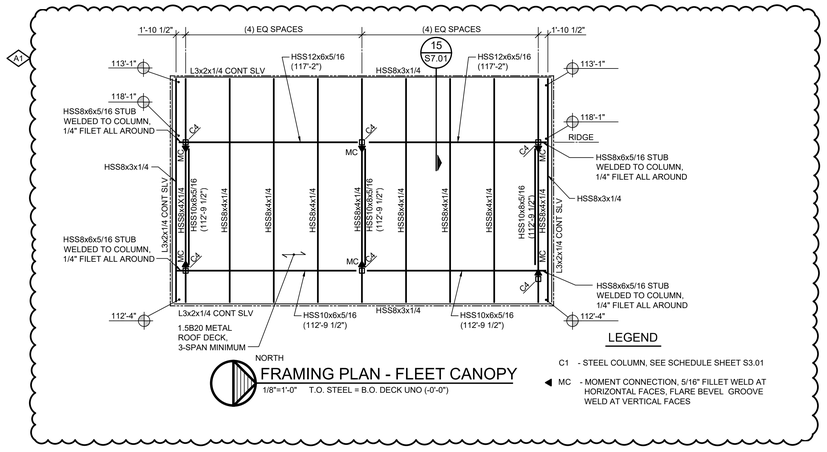
MIDLAND, MICHIGAN

SHEET TITLE

FOUNDATION PLAN - AREA C

PROJECT NUMBER	SHEET NUMBER
2022006.1	S2.01
PROJECT DATE: AUGUST 23, 2023	
CHECKED BY: JAG	





LEGEND

C1 - STEEL COLUMN, SEE SCHEDULE SHEET S3.01

MC - MOMENT CONNECTION, 5/16" FILLET WELD AT HORIZONTAL FACES, FLARE BEVEL GROOVE WELD AT VERTICAL FACES

LEGEND

BP1 - BEAM BEARING PLATE - SEE DETAIL /S7.01

C1 - STEEL COLUMN, SEE SCHEDULE SHEET S3.01

L1 - STEEL LINTEL, SEE SCHEDULE SHEET S3.01

L1(M) - STEEL LINTEL AT MECHANICAL OPENING, COORDINATE SIZE AND LOCATION OF OPENING WITH MECHANICAL TRADES

RD - ROOF DRAIN, SEE DETAIL 7/S7.01, COORDINATE SIZE AND LOCATION WITH MECHANICAL TRADES

EF - EXHAUST FAN, PROVIDE ROOF FRAME AT OPENING, SEE DETAIL 7/S7.01, COORDINATE SIZE AND LOCATION WITH MECHANICAL TRADES

18K-SP1 - SPECIAL JOIST, SEE SHEET S3.01 FOR JOIST LOADING DIAGRAM

0'-0" - BOTTOM OF DECK ELEVATION

DRIFT 1 - DRIFTED SNOW, SEE SHEET S3.01

SEE SHEET S3.01 FOR NOTES

NOTES

1. PROVIDE FRAME UNDER ALL RTU CURBS AND ROOF OPENINGS GREATER THAN 12" WIDE PER DETAIL 7/S7.01. COORDINATE SIZE AND LOCATION WITH MECHANICAL TRADES.
2. STRUCTURAL STEEL FRAMING TO BE SPACED AT EQUAL INTERVALS BETWEEN COLUMNS AND MASONRY BEARING WALLS UNO.
3. PROVIDE STEEL FRAME AT OPENINGS SIMILAR TO DETAIL 7/S7.01, ANCHOR TO EXISTING JOISTS WITH (2) 1/2" DIA HILTI HY-200 A ADHESIVE.
4. ALL LATERAL LOADS SHOWN ON PLAN ARE SERVICE LEVEL, UNFACTORED DESIGN LOADS. LOADS TO BE APPLIED WITH ALL APPLICABLE LOAD COMBINATIONS PER ASCE7-10. LOADS SHOWN FOR REFERENCE AND BIDDING PURPOSES ONLY. FINAL LOADS SHALL BE PROVIDED BY AND COORDINATED WITH EQUIPMENT SUPPLIER AND OWNER.

NO.	REVISION	DATE
A1	ADDENDUM 1	08/31/23
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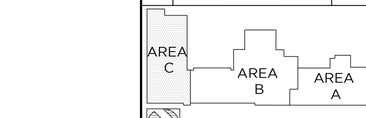

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PROJECT TITLE
ADDITION AND RENOVATION:
MIDLAND COUNTY ESA
MIDLAND, MICHIGAN

SHEET TITLE
ROOF FRAMING PLAN - AREA C

PROJECT NUMBER	SHEET NUMBER
2022006.1	S2.02
PROJECT DATE: AUGUST 23, 2023	
CHECKED BY: JAG	

GENERAL

1. VERIFY DIMENSIONS BEFORE COMMENCING WORK. REPORT DISCREPANCIES TO THE ARCHITECT.
2. VERIFY OPENINGS IN THE FRAMING PLANS WITH THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.
3. ALL WORK SHALL CONFORM TO MICHIGAN BUILDING CODE 2015.
4. DESIGN LOADS
   a. DESIGNED IN ACCORDANCE WITH MICHIGAN BUILDING CODE 2015.
   b. BUILDING RISK CATEGORY III
   c. ROOF SNOW LOAD: GROUND SNOW LOAD PG = 35 PSF
      FLAT ROOF SNOW LOAD, PF = 27 PSF
      SNOW EXPOSURE FACTOR, CE = 1.0
      SNOW LOAD IMPORTANCE FACTOR, I = 1.1
      THERMAL FACTOR, CT = 1.0, 1.2 AT CANOPIES
      FOR DRIFTED SNOW LOADS, SEE DIAGRAMS THIS SHEET
   d. WIND LOADS: BASIC WIND SPEED, VULT = 120 MPH
      VASD = 93 MPH
      WIND EXPOSURE B
      INTERNAL PRESSURE COEFFICIENT, GC PI = +/- 0.18

   WALL COMPONENTS & CLADDING:

	EFFECTIVE WIND AREA (FT2)	POSITIVE PRESSURE (PSF)	NEGATIVE PRESSURE (PSF)
-END ZONE			
	10	23.7	31.6
	20	22.7	29.5
	50	21.3	26.7
	100	20.2	24.6
-INTERIOR ZONE			
	10	23.7	25.7
	20	22.7	24.6
	50	21.3	23.3
	100	20.2	22.2

   e. EARTHQUAKE DESIGN DATA:
      SEISMIC USE GROUP, III
      SEISMIC IMPORTANCE FACTOR, I = 1.25
      SPECTRAL RESPONSE COEFFICIENTS: SDS = 0.08G, SD1 = 0.068G
      SITE CLASS D
      BASIC SEISMIC - FORCE - RESISTING SYSTEM: SHEAR WALL, MOMENT FRAME
      SEISMIC DESIGN CATEGORY, A
   f. MINIMUM ROOF LIVE LOAD: 30 PSF
   g. SECOND FLOOR LIVE LOADS: AS SHOWN ON FRAMING PLANS
5. SPECIAL INSPECTIONS:
   a. SPECIAL INSPECTIONS SHALL BE IN ACCORDANCE WITH THE MICHIGAN BUILDING CODE 2015 SECTION 1700.
   b. THE FOLLOWING TYPES OF WORK REQUIRE SPECIAL INSPECTIONS: (REFER TO THE BUILDING CODE AND SPECIFICATIONS FOR DETAILED INSPECTION REQUIREMENTS).
      1. PREPARED FILL.
      2. CONCRETE CONSTRUCTION.
      3. STEEL CONSTRUCTION.
      4. MASONRY CONSTRUCTION.

FOUNDATION NOTES

1. FOUNDATIONS ARE DESIGNED BASED ON SOIL BEARING OF 2000 PSF. IF SOIL OF THIS CAPACITY IS NOT FOUND AT THE ELEVATION NOTED, ENLARGE OR LOWER FOOTINGS AT THE DIRECTION OF THE ARCHITECT/ENGINEER.
2. CENTER FOOTINGS AND PIERS UNDER WALL LOCATION AND COLUMNS UNLESS NOTED.
3. EARTH FORMS ARE NOT PERMITTED UNLESS SPECIFICALLY NOTED.
4. FOLLOWING DEMOLITION OF STRUCTURES AND STRIPPING OF TOPSOIL, PREPARE SOILS IN ACCORDANCE WITH SOILS REPORT BY PSI DATED APRIL 14, 2023.
5. DISTURBANCE OF THE FOUNDATION BEARING SOILS SHALL BE AVOIDED.
6. EXISTING FOUNDATIONS OR FLOOR SLAB ENCOUNTERED DURING SITE GRADINGS AND EXCAVATION SHALL BE REMOVED TO A DEPTH OF TWO (2) FEET BELOW NEW CONSTRUCTION. REPLACE WITH STRUCTURAL BACKFILL.
7. EXTEND WALL FOOTING REINFORCEMENT THROUGH COLUMN FOOTINGS WHERE APPLICABLE. REDUCE THE COLUMN FOOTING REINFORCEMENT BY THE NUMBER OF WALL FOOTING BARS WHICH EXTEND THROUGH THE COLUMN FOOTING IN THE SAME DIRECTION.
8. PROVIDE BOND BREAK MATERIAL BETWEEN ALL GRADE SLABS AND VERTICAL SURFACES.
9. BACKFILL AND EXCAVATION PER SPECIFICATIONS.

CONCRETE NOTES

1. ACI BUILDING CODE 318; MANUAL OF STANDARD PRACTICE FOR DETAILING 315 FOR THE MIXING, FABRICATION AND PLACEMENT OF CONCRETE, REINFORCING STEEL, AND ACCESSORIES.
2. CONCRETE STRENGTH - STANDARD WEIGHT CONCRETE:
   FOOTINGS, WALLS, PIERS: F'C = 3000 MINIMUM PSI
   CONCRETE SLABS ON GRADE: F'C = 3500 MINIMUM PSI
   EXTERIOR CONCRETE SLABS EXPOSED TO DE-ICING: F'C = 4500 MINIMUM PSI
3. REINFORCING - BARS: ASTM A-615 GRADE 60
   WELDED WIRE FABRIC: ASTM A-1064
4. CONCRETE SLABS ON GRADE REINFORCING: 6X6 - W1.4XW1.4 WWF UNLESS NOTED. LOCATED IN THE UPPER 1/3 OF SLAB THICKNESS.
5. PROVIDE SAWCUT CONTROL JOINTS AT APPROXIMATELY 12' ON CENTER EACH WAY IN SLABS ON GRADE, SEE DETAILS. LOCATE JOINTS UNDER PARTITIONS WHENEVER POSSIBLE. CONSTRUCTION JOINTS ARE AT CONTRACTOR'S OPTION.
6. DEPRESS SLABS AS REQUIRED FOR FLOOR FINISHES, SEE ARCHITECT.
7. SLOPE FLOORS AS REQUIRED TO FLOOR DRAINS, SEE ARCHITECT.
8. FORM ALL CONCRETE.
9. PROVIDE 8" THICKENED FLOOR SLAB REINFORCED WITH (2) #4 UNDER ALL MASONRY WALLS AND MASONRY VENEERED STUD WALLS.
10. EXPOSED EDGES OF CONCRETE BEAMS, COLUMNS, ETC. SHALL BE CHAMFERED ¾".
11. PROVIDE CORNER BARS FOR ALL CONTIGUOUS CORNERS.
12. WATER/CEMENT RATIO LIMITS:
    F'C = 3000 PSI 0.68 NON-AIR ENTRAINED, 0.50 AIR ENTRAINED
    F'C = 3500 PSI 0.62 NON-AIR ENTRAINED, 0.50 AIR-ENTRAINED
    F'C = 4500 PSI 0.4 AIR-ENTRAINED
13. SLUMP LIMITS:
    3" FOR FOUNDATIONS, 4" FOR SLABS AND WALLS
14. PROVIDE AIR ENTRAINED CONCRETE FOR EXTERIOR EXPOSURES.
15. CONTRACTOR TO SUBMIT SIZE AND LAYOUT OF CONCRETE WALL SLEEVES, OPENINGS, ETC. FOR REVIEW PRIOR TO CONCRETE PLACEMENT.
10. REINFORCING LAP SPLICE LENGTHS: 45 BAR DIAMETERS FOR #6 BARS AND SMALLER, 60 BAR DIAMETERS FOR BARS LARGER THAN #6.

MASONRY NOTES

1. WORK SHALL BE PERFORMED IN ACCORDANCE WITH ACI 530 SPECIFICATIONS.
2. MORTAR: ASTM C270, TYPE M BELOW GRADE, TYPE M OR S ABOVE GRADE, TYPE N FOR NON-LOAD BEARING ABOVE GRADE.
3. GROUT: ASTM C476, F'C=2000 PSI, TESTED PER ASTM C1019.
4. REINFORCING BARS SHALL BE ASTM A-615, GRADE 60, LAP MINIMUM 40 BAR DIAMETERS FOR #5 BARS AND SMALLER, LAP MINIMUM 52 BAR DIAMETERS FOR BARS LARGER THAN #5 UNLESS NOTED OTHERWISE.
5. HORIZONTAL WALL REINFORCING: PER ASTM A-82, 9 GA, HOT DIPPED GALVANIZED PER ASTM A-153 (1.5 OZ PER SF.), LADDER TYPE, EQUAL TO DUR-A-WAL. BED JOINTS AT 16" O.C. AND AT 1ST AND 2ND BED JOINTS AT BOTTOM OF WALL, TOP OF WALL, ABOVE LINTELS AND BELOW SILLS. REINFORCING CONTINUOUS EXCEPT AT VERTICAL CONTROL JOINTS. SIDE RODS LAPPED A MINIMUM OF 6" AT SPLICES. PROVIDE PREFABRICATED CORNERS AND TEES.
6. CONCRETE MASONRY UNITS: ASTM C-90, GRADE N, TWO CORE TYPE FOR REINFORCED MASONRY. DESIGN BASED ON F'M = 1900 PSI.
7. VERTICAL WALL REINFORCING: 1 - #5 EACH SIDE OF MASONRY OPENINGS UP TO 5'-0" WIDE, 1 - #6 EACH SIDE OF MASONRY OPENINGS WIDER THAN 5'-0", CONTROL JOINTS AND AS SHOWN, IN GROUT FILLED BLOCK CORES.
8. VERTICAL BAR REINFORCING: PLACE ACCURATELY AND MECHANICALLY HOLD IN POSITION WHILE GROUTING. GROUTING SHALL BE DONE IN LIFTS NOT EXCEEDING 4'-0" AND MECHANICALLY CONSOLIDATED IN PLACE; CONSOLIDATION BY RODDING NOT ACCEPTABLE.
9. PROVIDE COMPLETELY GROUTED UNITS:
   a. UNDER CAST-IN-PLACE CONCRETE FLOOR BEARING
   b. UNDER BRICK VENEER BEARING
   c. UNDER ANY CHANGE OF WALL THICKNESS, I.E.: 8" ON TOP OF 12"
   d. UNDER STEEL JOIST OR BEAM BEARING.
10. PROVIDE LINTELS FOR OPENINGS IN MASONRY WALLS OVER 8" WIDE. SEE SCHEDULES THIS SHEET.
11. RUNNING BOND MASONRY SHALL BE BUILT INTEGRALLY AT WALL CORNERS UNLESS INDICATED OTHERWISE.
12. BLOCK CONTROL JOINTS SHALL BE "MICHIGAN" TYPE UNLESS NOTED OTHERWISE. HORIZONTAL REINFORCING SHALL BE DISCONTINUOUS AT CONTROL JOINTS. CMU CONTROL JOINTS TO BE SPACED NO GREATER THAN 1.5 TIMES THE HEIGHT OF THE MASONRY WALL O.C., AT OPENINGS, OR 24'-0" O.C. MAX. SEE ARCH FOR EXTERIOR CONTROL JOINT LOCATIONS.
13. TEMPORARY WALL BRACING IS THE CONTRACTORS RESPONSIBILITY. CONFORM TO APPLICABLE CODES AND STANDARDS.
14. CONTRACTOR SHALL KEEP THE AIR SPACE CAVITY BETWEEN THE CONCRETE MASONRY AND VENEER COMPLETELY CLEAR OF MORTAR AND DEBRIS.

STRUCTURAL STEEL

1. STRUCTURAL STEEL: FABRICATED AND ERECTED PER THE AISC MANUAL OF STEEL CONSTRUCTION.
   W-BEAMS: ASTM A-992 GR. 50.
   HSS: ASTM A-500 GRADE B.
   STEEL PIPE: ASTM A53, TYPE E, GRADE B.
   ALL OTHER SHAPES: ASTM A-36.
2. ANCHOR RODS: 36 KSI, ASTM F-1554.
3. WELDS: TO BE 70 KSI LOW HYDROGEN FILLER METAL PLACED BY WELDERS CERTIFIED IN WELD AND POSITION BY AWS D1.1, STRUCTURAL WELDING CODE. ALL WELDS SHALL BE APPLIED TO SURFACES FREE OF GREASE, PAINT, DIRT, OR OTHER HARMFUL MATERIAL.
4. BOLTED CONNECTIONS: 3/4" DIAMETER A-325 BOLTS WITH HEAVY HEX NUTS UNLESS NOTED. DESIGNED FOR BEARING CONNECTIONS, TIGHTENED TO SNUG TIGHT CRITERIA UNLESS NOTED OTHERWISE.
5. STEEL PRIMER: SEE SPECIFICATION.
6. BEAM CONNECTIONS SHALL BE DESIGNED TO SUPPORT ONE-HALF THE TOTAL UNIFORM LOAD CAPACITY PER AISC. WHEREVER POSSIBLE, EXTEND CONNECTIONS FULL DEPTH OF BEAM.
7. SHEAR TAB CONNECTIONS TO STEEL BEAMS ARE NOT ACCEPTABLE UNLESS BEAMS OF EQUAL DEPTHS ARE FASTENED ON OPPOSITE SIDES OF THE STEEL BEAM.
8. BEAM BEARING PLATES ARE TO BE LOCATED ON CENTER OF WALL UNLESS NOTED OTHERWISE. BEAR BEAM FULL LENGTH OF BEARING PLATES.
9. PROVIDE FITTED STIFFENER PLATES EACH SIDE FOR ALL CONDITIONS WHERE BEAMS BEAR ON COLUMNS, BEAMS BEAR ON BEAMS, BEAMS HANG FROM BEAMS, OR COLUMNS BEAR ON BEAMS. STIFFENER PLATES MINIMUM 1/4" THICK.
10. ~~ALL ARCHITECTURALLY EXPOSED STEEL MEMBERS TO CONFORM TO AESS 3 REQUIREMENTS.~~
11. ALL EXTERIOR BOLTS AND ANCHOR RODS TO BE HOT-DIP GALVANIZED.

A1

STEEL JOISTS

1. OPEN WEB STEEL JOIST: DESIGN, FABRICATE AND ERECT PER STEEL JOIST INSTITUTE (SJI) SPECIFICATIONS.
2. ITEMS SUPPORTED BY JOISTS SHALL BE ATTACHED AT PANEL POINTS WHERE POSSIBLE. SEE JOIST REINFORCEMENT DETAIL 6/S7.01 FOR NON-PANEL POINT LOADING.
3. WELDING OF SUPPORTS TO JOISTS WILL NOT BE PERMITTED UNLESS SPECIFICALLY NOTED.
4. NO STRUCTURAL MEMBER INCLUDING OPEN WEB STEEL JOIST SHALL BE CUT OR MODIFIED WITHOUT PRIOR WRITTEN APPROVAL OF THE JOIST MANUFACTURER AND THE ARCHITECT/ENGINEER.
5. BRIDGING: HORIZONTAL AND "X" TYPE SIZED NOT LESS THAN MINIMUM REQUIREMENT OF SJI.
6. SPECIAL LOADING CONDITIONS ARE SHOWN ON THE DRAWINGS AND SHALL BE USED IN THE DESIGN OF THE STEEL JOIST AS INDICATED ON THE PLANS.
7. PROVIDE UPLIFT BRIDGING PER SJI. STEEL JOISTS SHALL BE DESIGNED FOR A NET UPLIFT PRESSURE OF 9 PSF.

METAL DECK

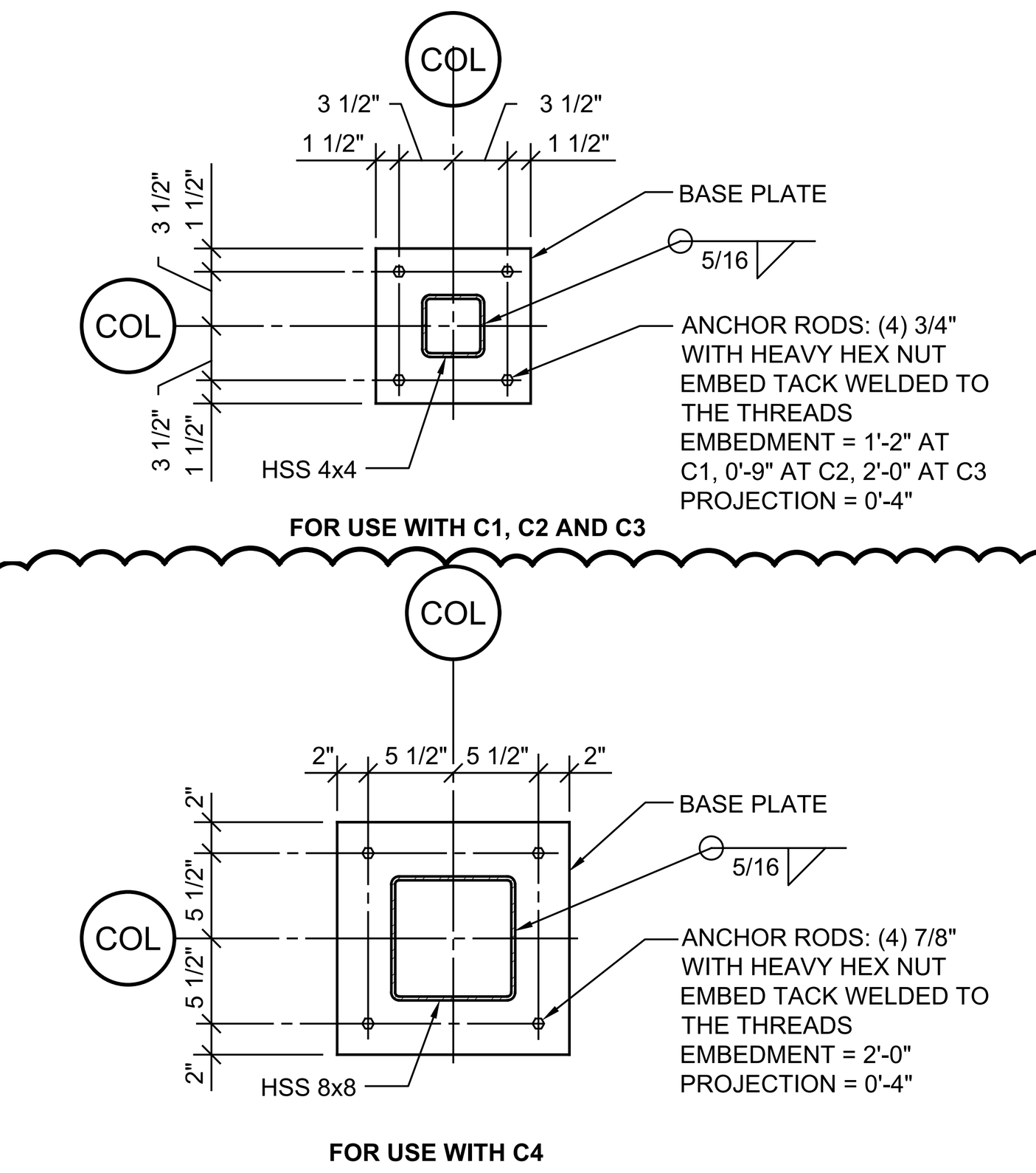
1. ROOF DECK: 1 1/2", 20 GAUGE, WIDE RIB, MINIMUM 3 SPANS. DESIGNED AND FABRICATED PER STEEL DECK INSTITUTE (SDI). WELD TO SUPPORTS WITH 5/8" DIAMETER PUDDLE WELDS 12" SPACING. FASTEN SIDE LAPS WITH #10 SCREWS AT 3'-0" MAXIMUM.
2. DECK FINISH: AS SPECIFIED.
3. ROOF DECK OPENINGS LARGER THAN 12" SHALL BE REINFORCED WITH A STEEL ROOF FRAME. SEE ROOF FRAME DETAIL ON DRAWINGS.

LIGHT GAGE METAL FRAMING

1. ALL STUDS SHALL BE FORMED FROM HOT-DIPPED GALVANIZED STEEL, G-60 COATING, CORRESPONDING TO THE REQUIREMENTS OF ASTM A653, STRUCTURAL QUALITY, GRADE 33, WITH A MINIMUM YIELD OF 33 KSI. MEMBERS DESIGNED PER AMERICAN IRON AND STEEL INSTITUTE (AISI) "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS". MEMBER DESIGNATIONS IN ACCORDANCE WITH THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) I.E. 600-S-162-33.
2. ALL EXTERIOR STUDS SHALL BE MINIMUM 18 GAUGE.
3. SHOP DRAWINGS FOR LIGHT GAUGE METAL FRAMING SHALL BE PREPARED BY THE SUPPLIER AND SUBMITTED TO THE ARCHITECT/ENGINEER FOR APPROVAL

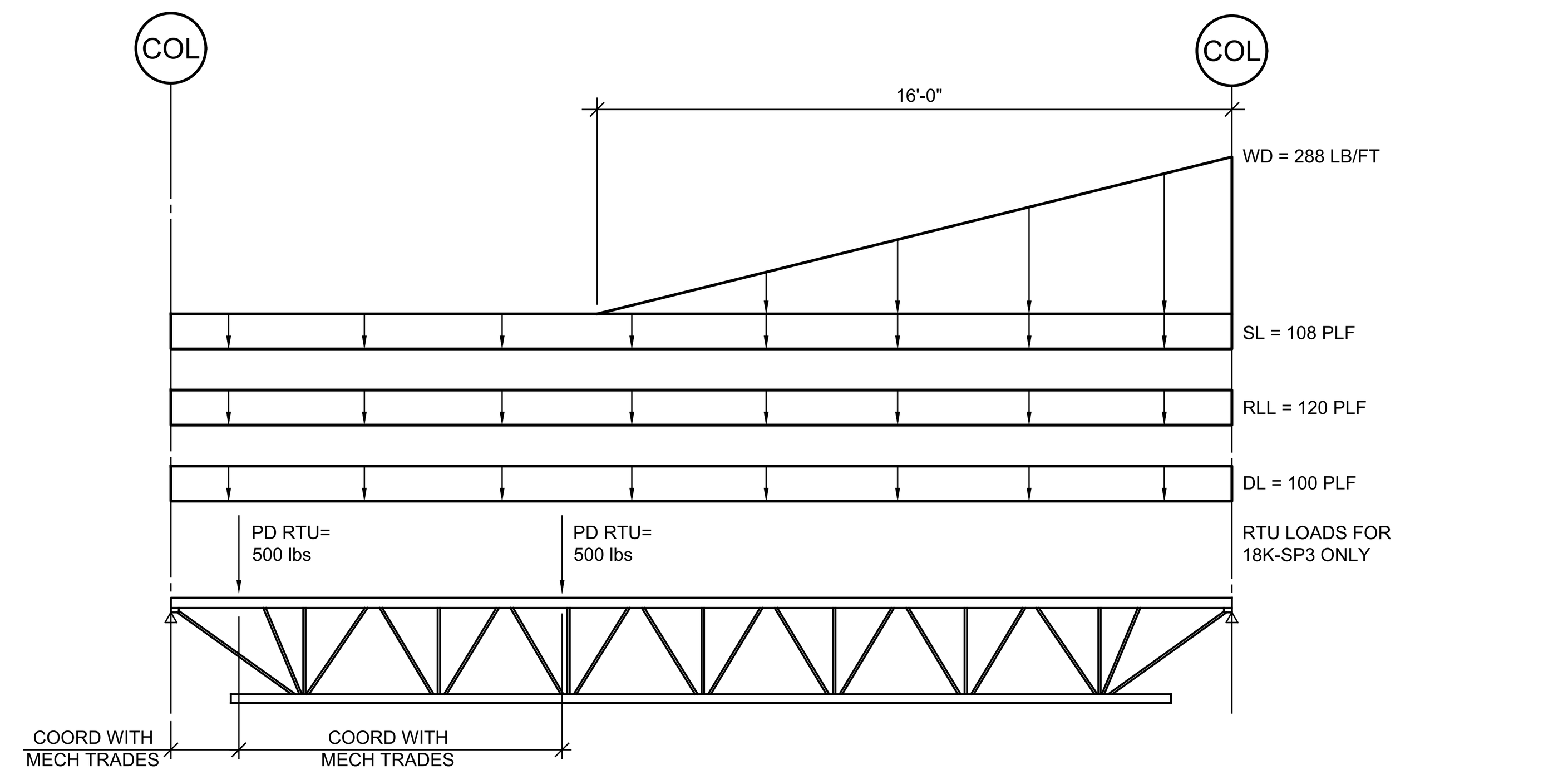
PLYWOOD SHEATHING

1. PLYWOOD FOR WALL STUDS SHALL BE 1/2" THICK APA RATED SHEATHING, (24/16).
2. ROOF SHEATHING FASTENED WITH #8 TEK SCREWS NAILS AT 6" O.C. AT PANEL EDGES AND INTERMEDIATE SUPPORTS UNLESS NOTES OTHERWISE.
3. PANELS SHALL BE LAID IN A STAGGERED PATTERN, CONTINUOUS OVER TWO SPANS.

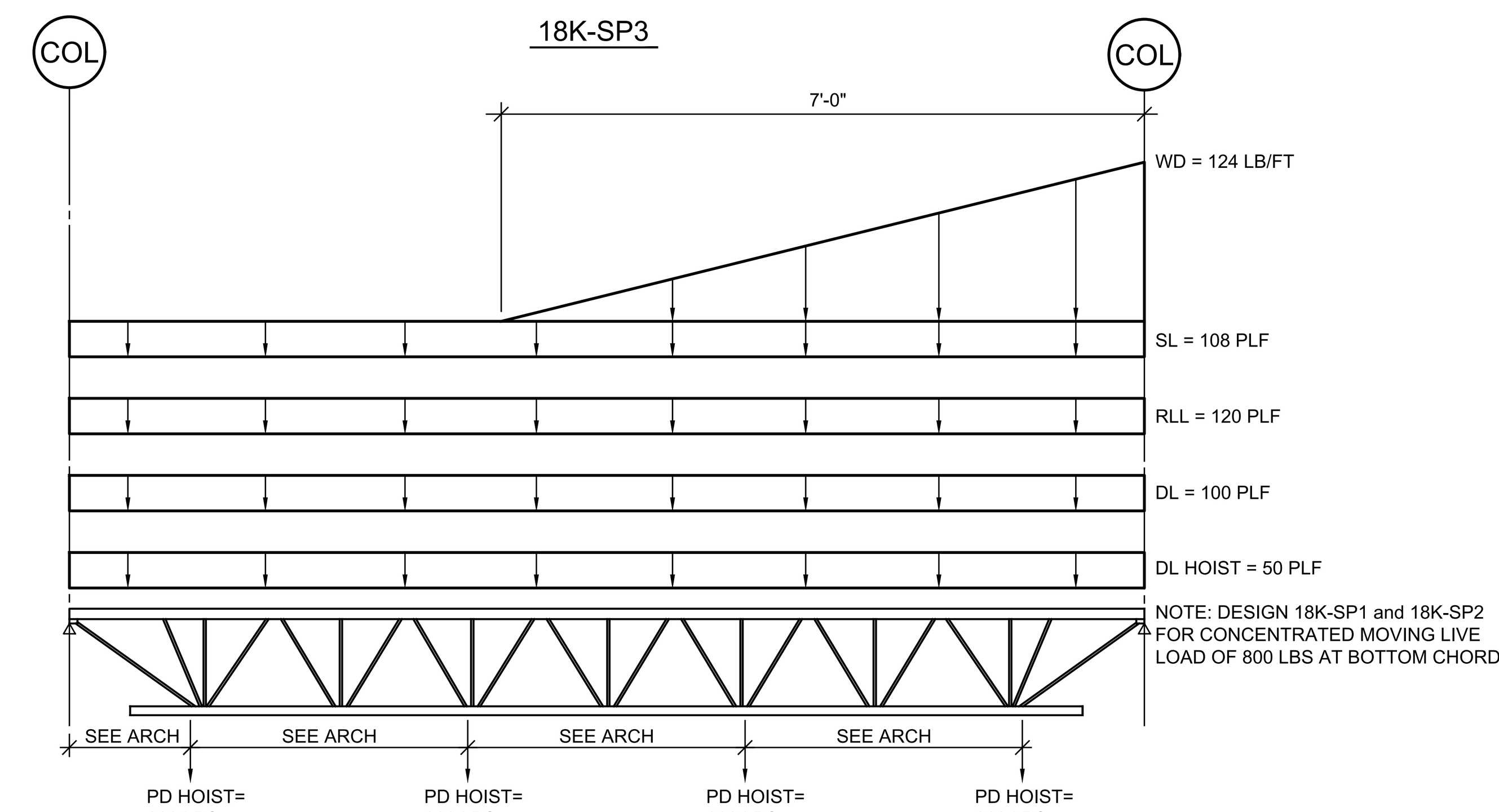


ANCHOR ROD PLAN

1"=1'-0" 2022-1558-S-Anchor Rod Plan.dwg



18K-SP3



18K-SP1 AND 18K-SP2

NOTES:
1. ALL LOADS ARE UNFACTORED.
2. DESIGN JOIST FOR WORST CASE LOAD COMBINATIONS.
3. DEAD LOADS DO NOT INCLUDE JOIST SELF-WEIGHT.
4. VERIFY ALL DIMENSIONS.
5. COORDINATE SIZE AND LOCATION OF MECHANICAL RTU WITH MECHANICAL CONTRACTOR.
6. SL = SNOW LOAD
   DL = DEAD LOAD
   RLL = ROOF LIVE LOAD
   PDL = CONCENTRATED DEAD LOAD
   WD = DRIFTED SNOW LOAD

SPECIAL JOIST DIAGRAMS

N.T.S.

FOOTING SCHEDULE

Fy=60 KSI
f'c=3000 PSI

MARK	SIZE	DEPTH	REINFORCING	REMARKS
F1	1'-6" CONT	1'-0"	(2) #5 CONT	———
F2	2'-0" CONT	1'-0"	(3) #5 CONT	———
F3	4'-0"x4'-0"	1'-0"	(5) #5 EW	———
F4	5'-0"x5'-0"	1'-0"	(6) #5 EW, T&B	
F5	3'-0" CONT	1'-0"	(3) #5 CONT T&B, #5 AT 12" O.C. SHORT WAY T&B	———
~~F6~~	~~4'-0"x8'-0"~~	~~1'-0"~~	(7) #4 SHORT WAY T&B (5) #4 LONG WAY T&B	
F7	6'-0"x6'-0"	1'-0"	(7) #5 EW, T&B	

A1 2022–1558 S–Footing Schedule.dwg

PIER SCHEDULE

f'c = 3000 psi
Fy = 60 ksi

MARK	SIZE	VERT REINF	TIES	REMARKS
P1	16"x16"	(4) #6	#3 AT 12" O.C.	———
P2	20"x20"	(8) #6	#3 AT 12" O.C.	———
P3	24" DIA	(8) #6	#3 AT 12" O.C.	———

TOP OF PIER ELEVATION = 99'-4" (UNO) 2022–1558 S–Pier Schedule.dwg

COLUMN SCHEDULE

HSS SECTIONS: Fy=46KSI

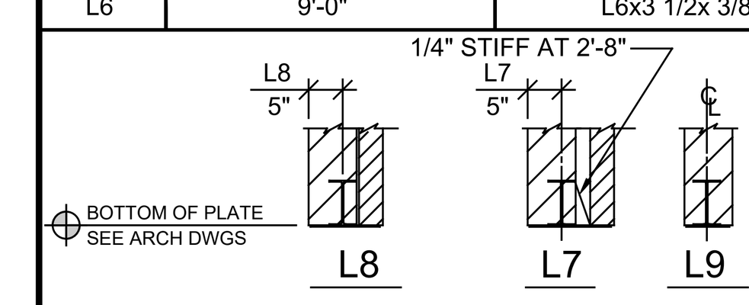
MARK	SIZE	BASE PL	CAP PL	REMARKS
C1	HSS4x4x1/4	3/4"x10"x10"	1/2"	———
C2	HSS5x5x1/4	3/4"x10"x10"	1/2"	———
~~C3~~	~~6" DIA PIPE~~	~~1"x10"x10"~~	~~3/4"x8"x12"~~	~~BEAM TO COLUMN: (4)3/4 DIA BOLTS~~
C4	HSS8x8x5/16	1 1/8"x14"x14"	1/2"	———

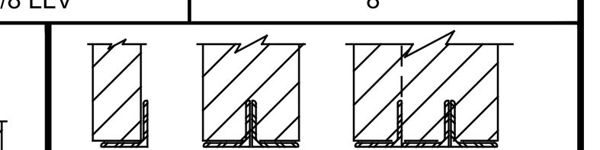
A1 2022–1558 S– Column Schedule.dwg

STEEL LINTEL SCHEDULE

Fy=36 KSI

MARK	CLEAR SPAN	SIZE	BEARING EACH END
L1	4'-0"	L3 1/2x2 1/2x1/4 SLV	4"
L2	5'-0"	L3 1/2x3x1/4 SLV	6"
L3	6'-0"	L3 1/2x3 1/2x1/4	6"
L4	7'-0"	L4x3 1/2x1/4 LLV	6"
L5	8'-0"	L5x3 1/2x1/4 LLV	8"
L6	9'-0"	L6x3 1/2x 3/8 LLV	8"





LINTELS SCHEDULED FOR SINGLE 4" OF WALL THICKNESS. PROVIDE 2 FOR 8" WALL, 3 FOR 10" WALL, 3" HORIZONTAL LEGS AND 3 FOR 12" WALL.

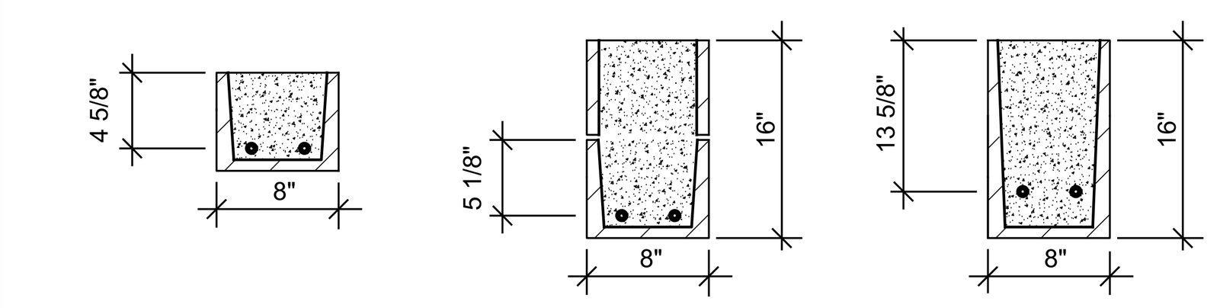
MARK	SIZE	BEARING EACH END
L7	W8x18 + PL 1/4"x1'-3"	8"
L8	W8x18 + PL 1/4'x11 1/2"	8"
L9	W8x18 + PL 1/4"x7 1/2"	8"
L10	W16x26 + PL 1/4"x7 1/2"	8"
L11	W16x26 + PL 1/4x11 1/2	8"

2022–1558 S–Steel Lintel Schedule.dwg

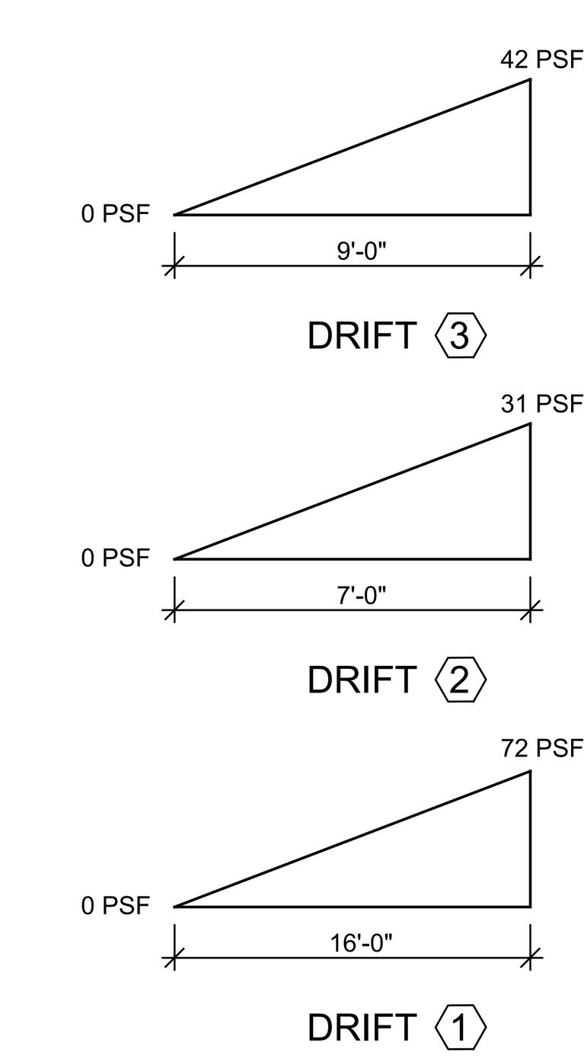
NOTE:
1. GROUT BELOW BEAM BEARING PER DETAIL 1/S7.01.
2. BEARING LENGTH IS OVER CMU OR COMPOSITE BRICK/BLOCK. DO NOT BEAR ON BRICK VENEER UNLESS SINGLE ANGLE LINTEL IS BEING UTILIZED.
3. ANCHOR MASONRY TO BEAMS WITH 9 GA WIRE TIES EACH SIDE AT 2'-8" O.C.
4. PROVIDE STEEL LINTELS AT ALL MASONRY WALL OPENINGS, INCLUDING MECHANICAL AND ELECTRICAL GREATER THAN 8" WIDE. SEE LINTEL SCHEDULE.
5. ALL EXTERIOR LINTELS TO BE HOT-DIP GALVANIZED.

CMU LINTEL SCHEDULE

MARK	CLEAR SPAN	BLOCK SIZE		BOTTOM REINFORCING	REMARKS
		WIDTH	DEPTH		
CL1	4'-0"	8"	8"	(2) #3	———
CL2	5'-0"	8"	8"	(2) #4	———
CL3	6'-0"	8"	8"	(2) #5	———
CL4	7'-0"	8"	16"	(2) #5	———
CL5	8'-0"	8"	16"	(2) #6	———
CL6	9'-0"	8"	16"	(2) #7	———



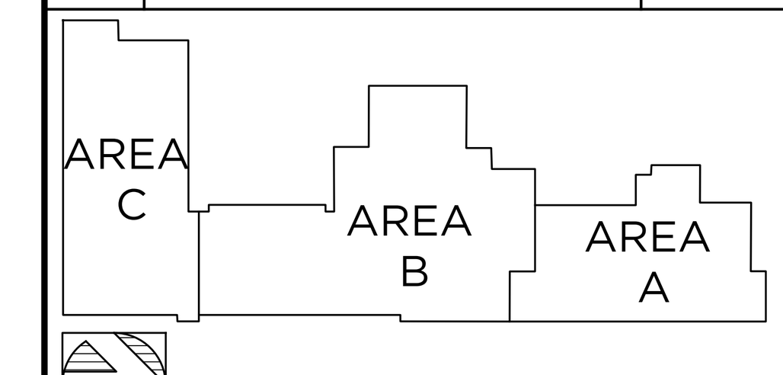
BASED ON 8" MIN BEARING EACH END 2022–1558 S–CMU Lintel Schedule.DWG



SNOW DRIFTING LOAD DIAGRAM

NOTE: STEEL JOIST DESIGNATIONS HAVE BEEN SELECTED TO ACCOUNT FOR DRIFTED SNOW LOADS. UNLESS NOTED OTHERWISE.

NO.	REVISION	DATE
A1	ADDENDUM 1	08/31/23
	ISSUE FOR BID	08/23/23



KEY PLAN
NORTH NO SCALE

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100 S Jefferson Ave, Suite 601
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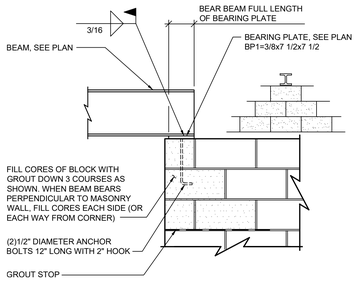
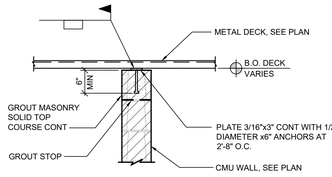
PROJECT TITLE
ADDITION AND RENOVATION:
MIDLAND COUNTY ESA
MIDLAND, MICHIGAN

SHEET TITLE
NOTES AND SCHEDULES

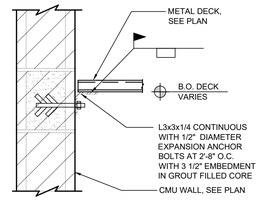
PROJECT NUMBER 2022006.1
PROJECT DATE AUGUST 23, 2023
CHECKED BY JAG
SHEET NUMBER S3.01



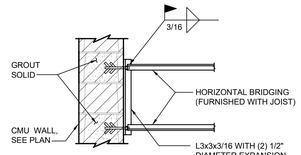
1 S7.01 **BEAM BEARING**
3/4"=1'-0" 2022-1558 S-BEAM Beam Bearing.dwg



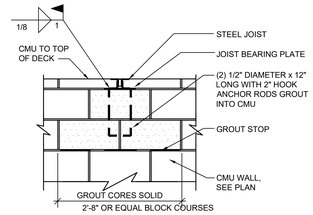
2 S7.01 **DECK BEARING**
3/4"=1'-0" 2022-1558 S-Deck Bearing.dwg



3 S7.01 **DECK SUPPORT ANGLE**
1 1/2"=1'-0" 2022-1558 S-Deck Support Angle.dwg



4 S7.01 **"K" BRIDGING ANCHOR**
3/4"=1'-0" 2022-1558 S-JOIST K Bridging Anchor.dwg

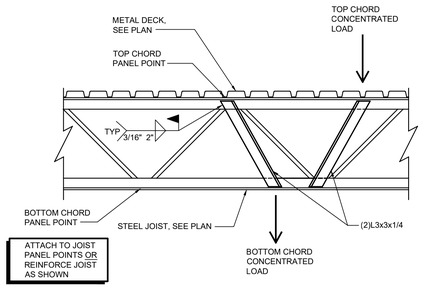


SET PLATE TO CORRECT RELATIONSHIP TO BOTTOM OF DECK ELEATION SHOWN

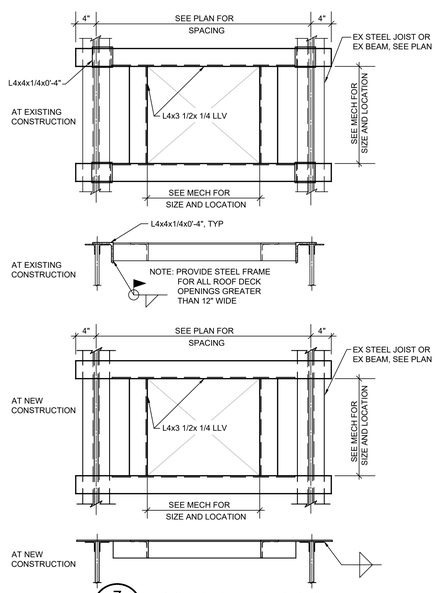
SINGLE JOIST BRG PL 3/8x4x8 UNO, 1/2" THICK AT SPANS GREATER THAN 23'-0"

DOUBLE JOIST BRG PL 3/8x7x8 UN0, 1/2" THICK AT DRIFTED SNOW LOAD LOCATIONS

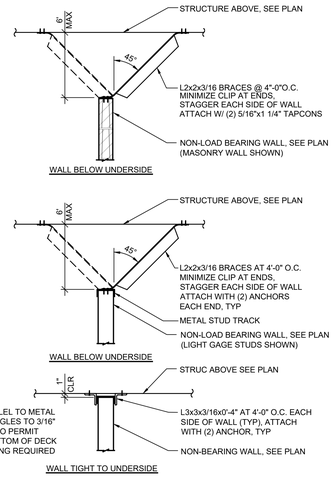
5 S7.01 **"K" JOIST END BEARING**
3/4"=1'-0" 2022-1558 S-K Joist End Bearing.dwg



6 S7.01 **STEEL JOIST REINFORCEMENT AT NON-PANEL POINT CONCENTRATED LOADS**
3/4"=1'-0" 2022-1558 S-Steel Joist Reinforcement At Nonpanel Point Concentrated Loads.dwg



7 S7.01 **ROOF OPENING FRAME**
1"=1'-0" 2022-1558 S-Roof Opening Frame NEW EX.dwg

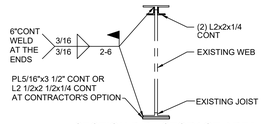


NOTE: WHERE PARALLEL TO METAL ROOF DECK WELD ANGLES TO 3/16" EXTENSION PLATES TO PERMIT ATTACHMENT TO BOTTOM OF DECK FLUTES AS OR FRAMING REQUIRED

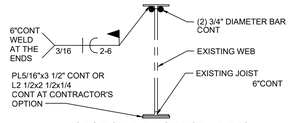
NOTES:
1. SEE ARCH FOR TOP OF WALL INFILL REQUIREMENTS.
2. BRACING NOT REQUIRED 4 FEET FROM INTEGRAL WALL INTERSECTIONS OR CORNERS.
3. ANCHORS SHALL BE #10 TEK SCREWS WHERE FASTENING TO METAL OR 3/16"x1 1/4" TAPCONS WHERE FASTENING TO CONCRETE OR MASONRY. PREDRILL ANGLE METAL.
4. EXTERIOR CLADDING SHALL HAVE FLEXIBLE CONNECTIONS TO ALLOW FOR 3/4" DEFLECTION.
5. LIGHT FRAMED ALTERNATES SHALL BE DESIGNED BY THE FABRICATOR AND APPROVED PRIOR TO FABRICATION.

8 S7.01 **TYP NON-BEARING WALL BRACING**
3/4"=1'-0" 2022-1558 S-Typ Non-Bearing Masonry Wall Bracing.dwg

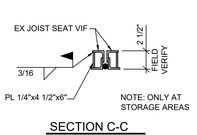
SECTION A-A



SECTION B-B - STORAGE AREA

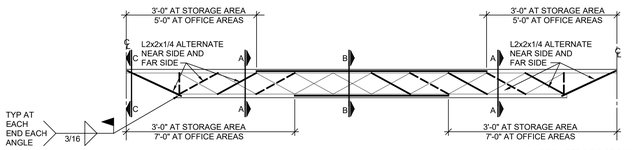


SECTION B-B - OFFICE AREAS



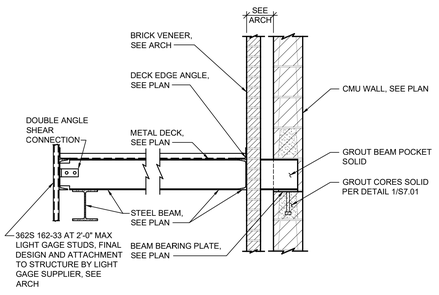
NOTE: ONLY AT STORAGE AREAS

SECTION C-C

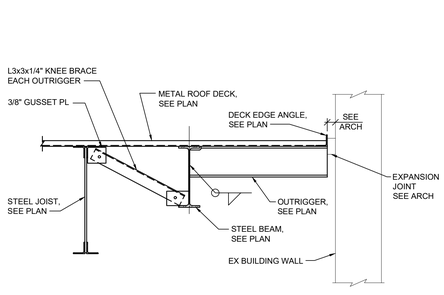


NOTE: LEFT SIDE OF DIAGRAM SHOWS WEB REINFORCEMENT FOR OFFICE AREAS, RIGHT SIDE SHOWS WEB REINFORCEMENT FOR STORAGE AREAS, ALL WEB REINFORCEMENT TO BE PROVIDED AT BOTH ENDS OF JOIST SPANS

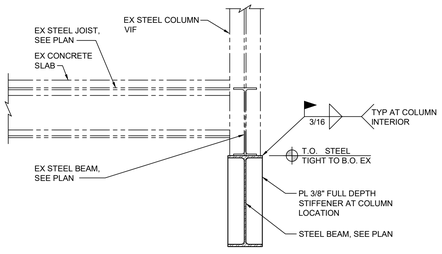
9 S7.01 **JOIST CHORD REINFORCEMENT**
N.T.S. 2022-1558-S-Joist Chord Reinforement.dwg



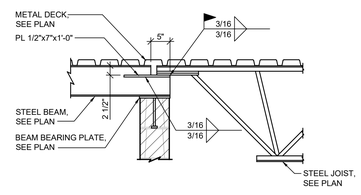
10 S7.01 **CANOPY DECK EDGE**
3/4"=1'-0" 2022-1558 S-Low Roof Deck Edge.dwg



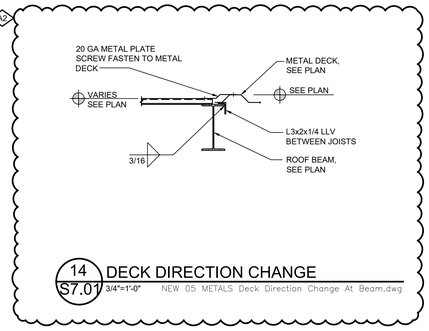
11 S7.01 **DECK EDGE AT EXISTING**
3/4"=1'-0" 2022-1558 S-Canopy Deck Edge.dwg



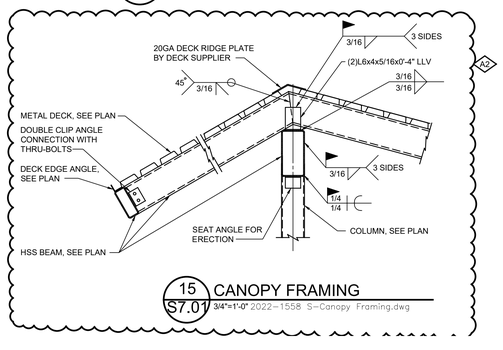
12 S7.01 **BEAM AT EXISTING COLUMN**
3/4"=1'-0" 2022-1558 S-Beam At Existing Column.dwg



13 S7.01 **COPED BEAM JOIST SEAT**
3/4"=1'-0" 2022-1558 S-Column At Existing Beam.dwg



14 S7.01 **DECK DIRECTION CHANGE**
3/4"=1'-0" NEW 05 METALS Deck Direction Change At Beam.dwg



15 S7.01 **CANOPY FRAMING**
3/4"=1'-0" 2022-1558 S-Canopy Framing.dwg

NO.	REVISION	DATE
A1	ADDENDUM 1	08/31/23
	ISSUE FOR BID	08/23/23

KEY PLAN
NORTH NO SCALE

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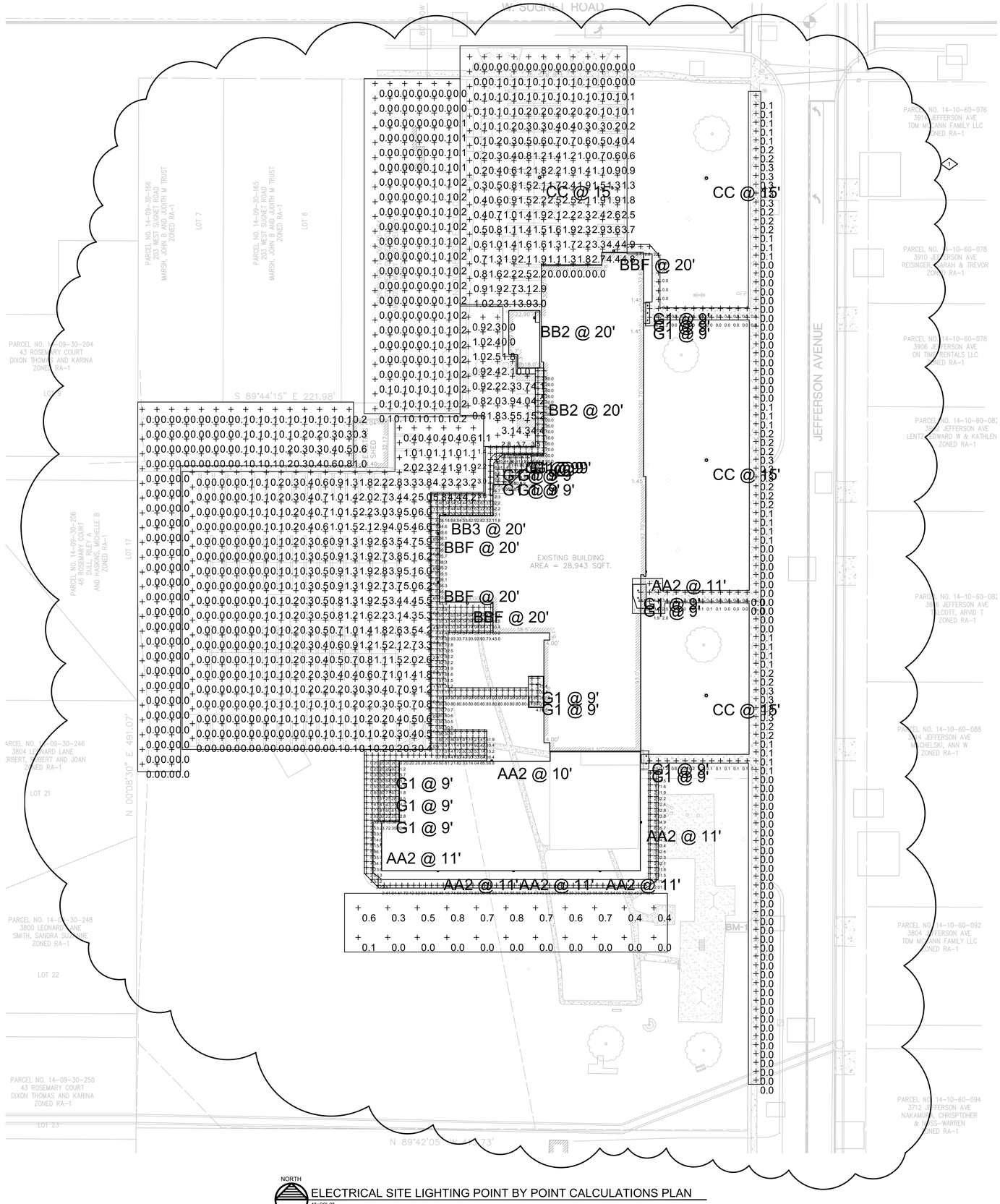
PROJECT TITLE
ADDITION AND RENOVATION:
MIDLAND COUNTY ESA
MIDLAND, MICHIGAN

SHEET TITLE
ROOF FRAMING DETAILS

PROJECT NUMBER	SHEET NUMBER
2022006.1	S7.01
PROJECT DATE: AUGUST 23, 2023	
CHECKED BY: JAG	



NO.	REVISION	DATE
1	ADDENDUM 1	08/31/23
	ISSUE FOR BID	08/23/23

AREA C | AREA B | AREA A

KEY PLAN

NORTH NO SCALE

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PROJECT TITLE

ADDITION AND RENOVATION:

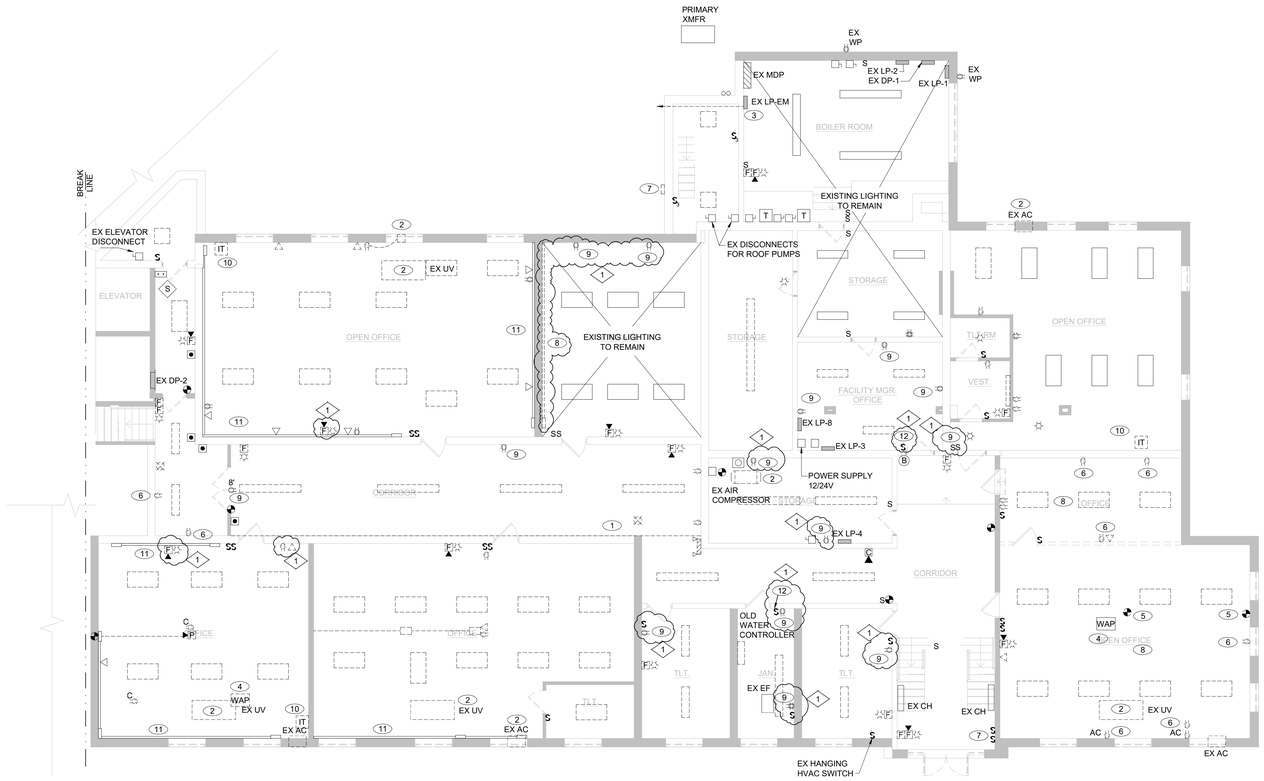
MIDLAND COUNTY ESA

MIDLAND, MICHIGAN

SHEET TITLE

ELECTRICAL SITE LIGHTING POINT BY POINT CALC. PLAN

PROJECT NUMBER	SHEET NUMBER
2022006.1	SE1.02
PROJECT DATE: AUGUST 23, 2023	
CHECKED BY: JWF	



NORTH

DEMOLITION ELECTRICAL PLAN - LOWER LEVEL - AREA A

1/8"=1'-0"

DEMOLITION SPECIAL NOTE

1. DEMO ALL EXISTING FIRE ALARM AND SMOKE DETECTOR DEVICES INCLUDING ALL CONDUCTORS, RACEWAYS, HANGERS AND SUPPORTS. TO PREPARE FOR A NEW FIRE ALARM SYSTEM.

GENERAL NOTES DEMOLITION

1. ELECTRICAL PANELS SHOWN ON THE DEMO PLAN ARE SHOWN FOR REFERENCE. DO NOT REMOVE PANELS UNLESS NOTED OTHERWISE. REFER TO POWER DRAWINGS.
2. EC SHALL REMOVE AND PROPERLY DISPOSE OF ALL FIXTURES, LAMPS, BALLASTS AND WIRING SHOWN FOR DEMOLITION.
3. EC SHALL REMOVE ALL BLANK COVERS ON BOXES TO CONFIRM THE TYPE OF WIRING, POWER OR LOW VOLTAGE. REMOVE ALL WIRING, BOXES IF EMPTY SHALL BE REMOVED FOR WALL PATCHING.
4. ALL ITEMS SHOWN DASHED SHALL BE REMOVED UNLESS OTHERWISE NOTED.
5. REMOVE ALL CONDUIT AND WIRING BACK TO SOURCE FOR ALL DEVICES SHOWN TO BE REMOVED.
6. REMOVE ALL DATA CABLES BACK TO THE IDF RACK FOR ALL DATA OUTLETS. A COMPLETE NEW LOW VOLTAGE SYSTEM SHALL BE INSTALLED.
7. REMOVE ALL FIRE ALARM DEVICES, AS NOTES EXISTING MAIN FIRE ALARM CONTROL PANEL AND ASSOCIATED DEVICES IN AREA WITH LIMITED DEMOLITION SHALL REMAIN. IDENTIFY, PROTECT AND MARK EXISTING CABLING.
8. REMOVE ALL WIRELESS ACCESS POINTS AND RETURN TO OWNER. REMOVE CABLING BACK TO THE SOURCE.
9. REMOVE ALL HANGERS, SUPPORTS AND STRAPS ASSOCIATED WITH ITEMS BEING REMOVED.
10. REMOVE ALL ABANDONED CONDUIT AND BOXES TO PREPARE FOR PATCHING BY GENERAL TRADES.

KEYED NOTES - DEMOLITION

1. DEMO EXISTING MAKESHIFT "WIREMOLD" AND ALL POWER AND DATA CABLING WITHIN IT.
2. REMOVE ALL POWER, RACEWAY, CONDUIT AND SUPPORTS FOR DEMOED MECHANICAL EQUIPMENT.
3. DEMO FEED TO PANEL LP-EM. REMOVE ALL CONDUIT, WIRE, HANGARS ETC. PANEL TO BE REFED FROM LP-2. REFER TO POWER AND SYSTEMS AND ONE-LINE DRAWINGS.
4. REMOVE WIRELESS ACCESS POINT AND RETURN TO OWNER.
5. DEMO EXISTING POWER POLE THAT FEEDS CUBICLES.
6. REMOVE EXISTING DEVICES, DEMO WIRE AND CONDUIT BACK TO CEILING. RECEPTACLE CIRCUIT TO BE REUSED.
7. REMOVE EXISTING EXTERIOR WALL PACK LIGHT FIXTURE.
8. REMOVE EXISTING SURFACE RACEWAY. DEMO BACK TO CEILING.
9. EXISTING DEVICE TO REMAIN.
10. REMOVE IT EQUIPMENT AND RETURN TO OWNER.
11. EXISTING RACEWAY TO REMAIN.
12. EXISTING ROUGH-IN TO BE REUSED. REMOVE OLD DEVICE AND REPLACE WITH NEW DEVICE ACCORDING TO ELECTRICAL PLANS.

NO.	REVISION	DATE
1	ADDENDUM 1	08/31/23
	ISSUE FOR BID	08/23/23

AREA C | AREA B | AREA A

KEY PLAN

NORTH NO SCALE

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PROJECT TITLE

ADDITION AND RENOVATION:

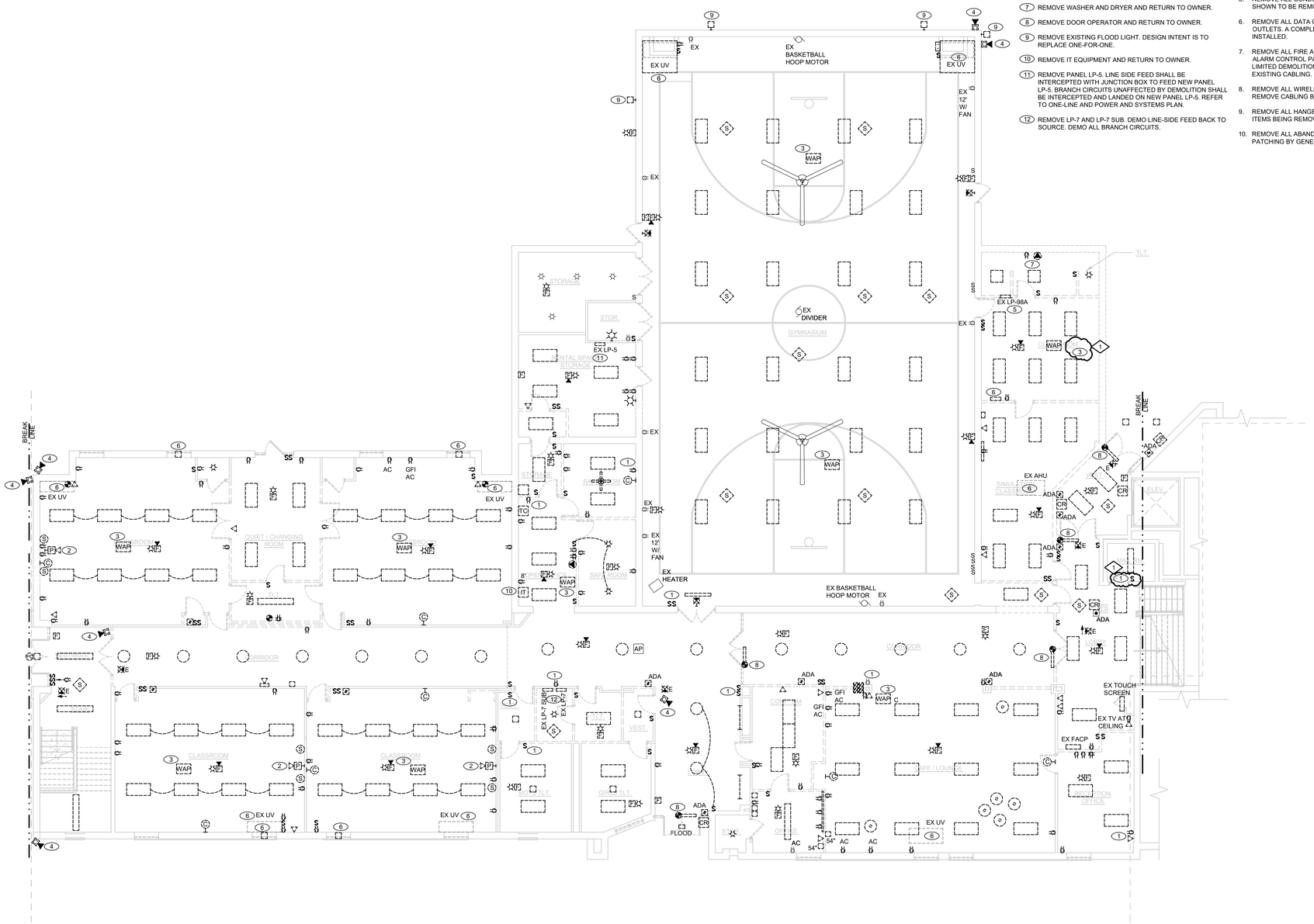
MIDLAND COUNTY ESA

MIDLAND, MICHIGAN

SHEET TITLE

DEMOLITION ELECTRICAL PLAN - LOWER LEVEL AREA A

PROJECT NUMBER	SHEET NUMBER
2022006.1	E1.01
PROJECT DATE: AUGUST 23, 2023	
CHECKED BY: JWF	



NORTH

DEMOLITION ELECTRICAL PLAN - MAIN LEVEL SOUTH WING - AREA B

1/8"=1'-0"

DEMOLITION KEYED NOTES

1. EXISTING ROUGH-IN TO BE REUSED. REMOVE OLD DEVICE AND REPLACE WITH NEW DEVICE ACCORDING TO ELECTRICAL PLANS.
2. REMOVE PROJECTOR AND SPEAKERS AND RETURN TO OWNER.
3. REMOVE WIRELESS ACCESS POINT AND RETURN TO OWNER.
4. REMOVE SECURITY CAMERA AND RETURN TO OWNER.
5. DEMO EXISTING ELECTRICAL PANEL. DEMO ALL BRANCH CIRCUITS. FIELD TRACE LINE-SIDE FEED. IF PANEL LP-98A IS FED FROM CEILING THEN DEMO LINE SIDE FEED TO ACCESSIBLE CEILING SPACE CLOSEST TO NEW PANEL RP1B. REFER TO POWER AND SYSTEMS PLAN. IF PANEL LP-98A IS FED UNDERGROUND THEN DEMO LINE-SIDE FEED BACK TO SOURCE.
6. REMOVE ALL POWER, RACEWAY, CONDUIT AND SUPPORTS FOR DEMOED MECHANICAL EQUIPMENT.
7. REMOVE WASHER AND DRYER AND RETURN TO OWNER.
8. REMOVE DOOR OPERATOR AND RETURN TO OWNER.
9. REMOVE EXISTING FLOOD LIGHT. DESIGN INTENT IS TO REPLACE ONE-FOR-ONE.
10. REMOVE IT EQUIPMENT AND RETURN TO OWNER.
11. REMOVE PANEL LP-5, LINE SIDE FEED SHALL BE INTERCEPTED WITH JUNCTION BOX TO FEED NEW PANEL LP-5. BRANCH CIRCUITS UNAFFECTED BY DEMOLITION SHALL BE INTERCEPTED AND LANDED ON NEW PANEL LP-5. REFER TO ONE-LINE AND POWER AND SYSTEMS PLAN.
12. REMOVE LP-7 AND LP-7 SUB. DEMO LINE-SIDE FEED BACK TO SOURCE. DEMO ALL BRANCH CIRCUITS.

DEMOLITION SPECIAL NOTE

1. DEMO ALL EXISTING FIRE ALARM AND SMOKE DETECTOR DEVICES INCLUDING ALL CONDUCTORS, RACEWAYS, HANGERS AND SUPPORTS. TO PREPARE FOR A NEW FIRE ALARM SYSTEM.

GENERAL NOTES DEMOLITION

1. ELECTRICAL PANELS SHOWN ON THE DEMO PLAN ARE SHOWN FOR REFERENCE. DO NOT REMOVE PANELS UNLESS NOTED OTHERWISE. REFER TO POWER DRAWINGS.
2. EC SHALL REMOVE AND PROPERLY DISPOSE OF ALL FIXTURES, LAMPS, BALLASTS AND WIRING SHOWN FOR DEMOLITION.
3. EC SHALL REMOVE ALL BLANK COVERS ON BOXES TO CONFIRM THE TYPE OF WIRING, POWER OR LOW VOLTAGE. REMOVE ALL WIRING, BOXES IF EMPTY SHALL BE REMOVED FOR WALL PATCHING.
4. ALL ITEMS SHOWN DASHED SHALL BE REMOVED UNLESS OTHERWISE NOTED.
5. REMOVE ALL CONDUIT AND WIRING BACK TO SOURCE FOR ALL DEVICES SHOWN TO BE REMOVED.
6. REMOVE ALL DATA CABLES BACK TO THE IDF RACK FOR ALL DATA OUTLETS. A COMPLETE NEW LOW VOLTAGE SYSTEM SHALL BE INSTALLED.
7. REMOVE ALL FIRE ALARM DEVICES. AS NOTES EXISTING MAIN FIRE ALARM CONTROL PANEL AND ASSOCIATED DEVICES IN AREA WITH LIMITED DEMOLITION SHALL REMAIN. IDENTIFY, PROTECT AND MARK EXISTING CABLING.
8. REMOVE ALL WIRELESS ACCESS POINTS AND RETURN TO OWNER. REMOVE CABLING BACK TO THE SOURCE.
9. REMOVE ALL HANGERS, SUPPORTS AND STRAPS ASSOCIATED WITH ITEMS BEING REMOVED.
10. REMOVE ALL ABANDONED CONDUIT AND BOXES TO PREPARE FOR PATCHING BY GENERAL TRADES.

NO.	REVISION	DATE
1	ADDENDUM 1	08/31/23
	ISSUE FOR BID	08/23/23

AREA C | AREA B | AREA A

KEY PLAN

NORTH NO SCALE

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PROJECT TITLE

ADDITION AND RENOVATION:

MIDLAND COUNTY ESA

MIDLAND, MICHIGAN

SHEET TITLE

DEMOLITION ELECTRICAL PLAN - MAIN LEVEL SOUTH WING - AREA B

PROJECT NUMBER	SHEET NUMBER
2022006.1	E1.02
PROJECT DATE: AUGUST 23, 2023	
CHECKED BY: JWF	

DEMOLITION KEYED NOTES

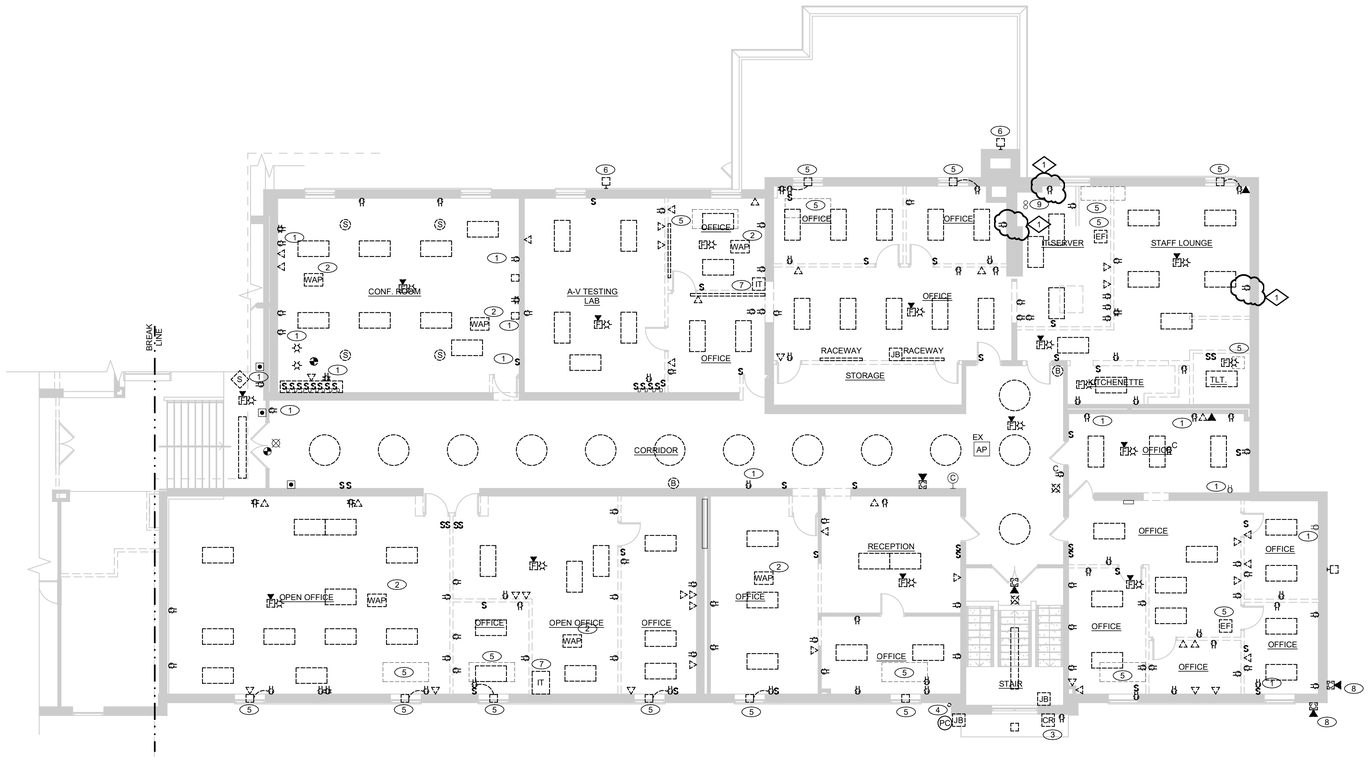
1. EXISTING ROUGH-IN TO BE REUSED. REMOVE OLD DEVICE AND REPLACE WITH NEW DEVICE ACCORDING TO ELECTRICAL PLANS.
2. REMOVE WIRELESS ACCESS POINT AND RETURN TO OWNER.
3. REMOVE AND REINSTALL CARD READER. JUNCTION BOX TO BE REPLACED.
4. DEMO EXISTING PHOTOCELL AND JUNCTION BOX. NEW JUNCTION BOX TO BE INSTALLED AT T-JUNCTION OF VERTICAL CONDUIT RUN.
5. REMOVE ALL POWER, RACEWAY, CONDUIT AND SUPPORTS FOR DEMOED MECHANICAL EQUIPMENT.
6. REMOVE EXISTING SITE LIGHT. DESIGN INTENT IS TO REPLACE ONE-FOR-ONE.
7. REMOVE EXISTING IT EQUIPMENT AND RETURN TO OWNER.
8. REMOVE CAMERA AND RETURN TO OWNER.
9. CONTRACTOR SHALL PROVIDE (2) 3" FLOOR CORES FOR TEMP DATA DURING CONSTRUCTION FROM EX UPPER LEVEL MDP TO NEW LOWER LEVEL MDL. PATCH HOLES AT THE END OF CONSTRUCTION.

DEMOLITION SPECIAL NOTE

1. DEMO ALL EXISTING FIRE ALARM AND SMOKE DETECTOR DEVICES INCLUDING ALL CONDUCTORS, RACEWAYS, HANGERS AND SUPPORTS. TO PREPARE FOR A NEW FIRE ALARM SYSTEM.

GENERAL NOTES DEMOLITION

1. ELECTRICAL PANELS SHOWN ON THE DEMO PLAN ARE SHOWN FOR REFERENCE. DO NOT REMOVE PANELS UNLESS NOTED OTHERWISE. REFER TO POWER DRAWINGS.
2. EC SHALL REMOVE AND PROPERLY DISPOSE OF ALL FIXTURES, LAMPS, BALLASTS AND WIRING SHOWN FOR DEMOLITION.
3. EC SHALL REMOVE ALL BLANK COVERS ON BOXES TO CONFIRM THE TYPE OF WIRING, POWER OR LOW VOLTAGE. REMOVE ALL WIRING, BOXES IF EMPTY SHALL BE REMOVED FOR WALL PATCHING.
4. ALL ITEMS SHOWN DASHED SHALL BE REMOVED UNLESS OTHERWISE NOTED.
5. REMOVE ALL CONDUIT AND WIRING BACK TO SOURCE FOR ALL DEVICES SHOWN TO BE REMOVED.
6. REMOVE ALL DATA CABLES BACK TO THE IDF RACK FOR ALL DATA OUTLETS. A COMPLETE NEW LOW VOLTAGE SYSTEM SHALL BE INSTALLED.
7. REMOVE ALL FIRE ALARM DEVICES. AS NOTES EXISTING MAIN FIRE ALARM CONTROL PANEL AND ASSOCIATED DEVICES IN AREA WITH LIMITED DEMOLITION SHALL REMAIN. IDENTIFY, PROTECT AND MARK EXISTING CABLING.
8. REMOVE ALL WIRELESS ACCESS POINTS AND RETURN TO OWNER. REMOVE CABLING BACK TO THE SOURCE.
9. REMOVE ALL HANGERS, SUPPORTS AND STRAPS ASSOCIATED WITH ITEMS BEING REMOVED.
10. REMOVE ALL ABANDONED CONDUIT AND BOXES TO PREPARE FOR PATCHING BY GENERAL TRADES.



NORTH **DEMOLITION ELECTRICAL PLAN - MAIN LEVEL NORTH WING - AREA A**
1/8"=1'-0"

NO.	REVISION	DATE
1	ADDENDUM 1	08/31/23
	ISSUE FOR BID	08/23/23

AREA C | AREA B | AREA A

KEY PLAN
NORTH NO SCALE

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PROJECT TITLE
ADDITION AND RENOVATION:
MIDLAND COUNTY ESA
MIDLAND, MICHIGAN

SHEET TITLE
DEMOLITION ELECTRICAL PLAN - MAIN LEVEL NORTH WING - AREA A

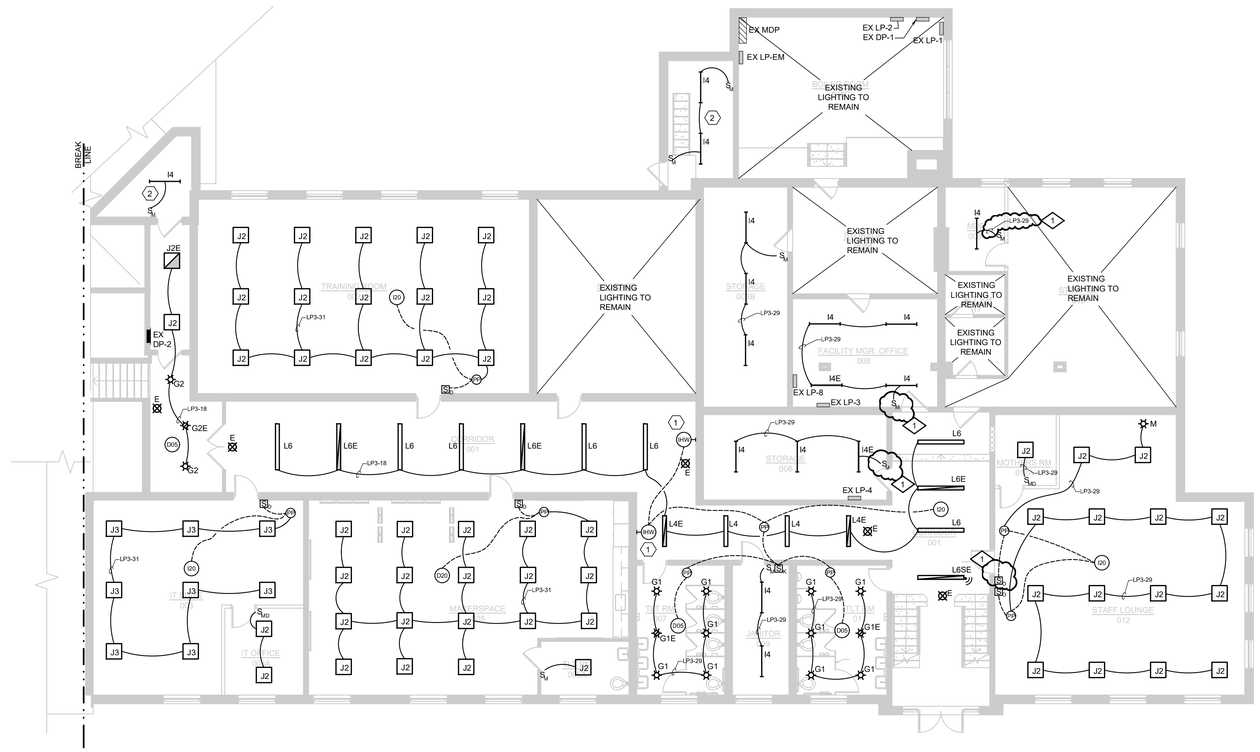
PROJECT NUMBER	SHEET NUMBER
2022006.1	E1.03
PROJECT DATE: AUGUST 23, 2023	
CHECKED BY: JWF	

KEYED NOTES

1. INSTALL HALLWAY OCCUPANCY SENSOR PER MANUFACTURER'S INSTRUCTIONS. MOUNT AT 7' AFF WITH CLEAR LINE-OF-SIGHT.
2. REUSE EXISTING LIGHTING CIRCUITING TO FEED NEW LIGHTS. MODIFY AND EXTEND CIRCUIT AS REQUIRED.

LIGHTING WIRING METHODS

1. EXIT LIGHTS SHALL OPERATE 24-7 AND ARE EQUIPPED WITH A BATTERY RATED FOR 90 MINUTES. WIRE THE EXIT LIGHT TO THE LOCAL LIGHTING CIRCUIT AHEAD OF ANY SWITCHING.
2. HALF-TONE SHADED FIXTURES REPRESENTS THE FIXTURE IS AN EMERGENCY LIGHT AND EQUIPPED WITH AN EMERGENCY BATTERY PACK.
3. CONFIRM LIGHT FIXTURE LAYOUT WITH THE ARCHITECTURAL REFLECTED CEILING PLAN AND ARCHITECTURAL DETAILS FOR LOCATION AND MOUNTING DETAILS.
4. MC CABLE IS ONLY ACCEPTABLE AS A FINAL WIRING CONNECTION TO RECESSED LIGHTING INSTALLED IN ACCESSIBLE CEILINGS. MC CABLE LENGTH SHALL NOT EXCEED 6'-0".
5. PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR FOR LIGHTING CIRCUITS. THE USE OF THE RACEWAY FOR A GROUNDING PATH IS NOT ACCEPTABLE FOR THIS PROJECT.
6. SMALL ROOMS SUCH AS STORAGE ROOM, INDIVIDUAL TOILET ROOMS, JANITORS CLOSET, DATA CLOSET AND OFFICES SHALL HAVE WALL SWITCH TYPE OCCUPANCY SENSORS SWITCHES TO AUTOMATICALLY CONTROL THE LIGHTS AS NOTED AND SPECIFIED ON THE DRAWINGS.
7. OCCUPANCY SENSORS, POWER PACKS AND CONTROLS ARE SHOWN DIAGRAMMATICALLY. INFRARED SENSORS MUST REMAIN AT A MINIMUM OF 4'-0" AWAY FROM ANY MECHANICAL HEAT DIFFUSER TO ELIMINATE FALSE TRIPS. CIRCUIT LINES ARE SHOWN FROM SWITCHES TO LIGHT FIXTURES TO COMMUNICATE SWITCHING CONFIGURATION ONLY. ALL SENSORS, POWER PACKS AND WIRING MUST BE WIRED PER MANUFACTURER'S WIRING METHOD.
8. A SINGLE POWER PACK CAN HAVE MULTIPLE SWITCHES WIRED TO THE DEVICE PROVIDED THAT THE FIXTURES BEING CONTROLLED BY THESE SWITCHES ARE ON THE SAME CIRCUIT. TWO POWER PACKS ARE REQUIRED IF A SECOND CIRCUIT IS INTRODUCED. REFER TO MANUFACTURER'S WIRING METHODS. POWER PACKS AND OR OCCUPANCY SENSORS SHALL INCLUDE A HVAC RELAY AS SCHEDULED AND NOTED ON THE DRAWINGS FOR THE BUILDING AUTOMATION SYSTEM CONNECTION. BUILDING AUTOMATION WIRING SHALL BE COMPLETED AS PART OF THE TEMPERATURE CONTROL CONTRACTOR'S BID.
9. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIRE STOPPING PENETRATIONS THRU FIRE RATED WALLS FOR THEIR WORK.
10. POWER PACKS SHOWN DIAGRAMMATICALLY. WHEN SHOWN IN GYP BOARD CEILING, LOCATE POWER PACK IN NEAREST LAY-IN CEILING OR CLOSET SPACE.

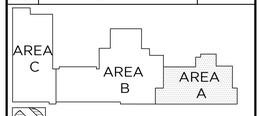


NORTH

LIGHTING PLAN - LOWER LEVEL - AREA A

1/8"=1'-0"

NO.	REVISION	DATE
1	ADDENDUM 1	08/31/23
	ISSUE FOR BID	08/23/23



KEY PLAN

NORTH NO SCALE

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PROJECT TITLE

ADDITION AND RENOVATION:

MIDLAND COUNTY ESA

MIDLAND, MICHIGAN

SHEET TITLE

LIGHTING PLAN
LOWER LEVEL
AREA A

PROJECT NUMBER
2022006.1

PROJECT DATE
AUGUST 23, 2023

CHECKED BY
JWF

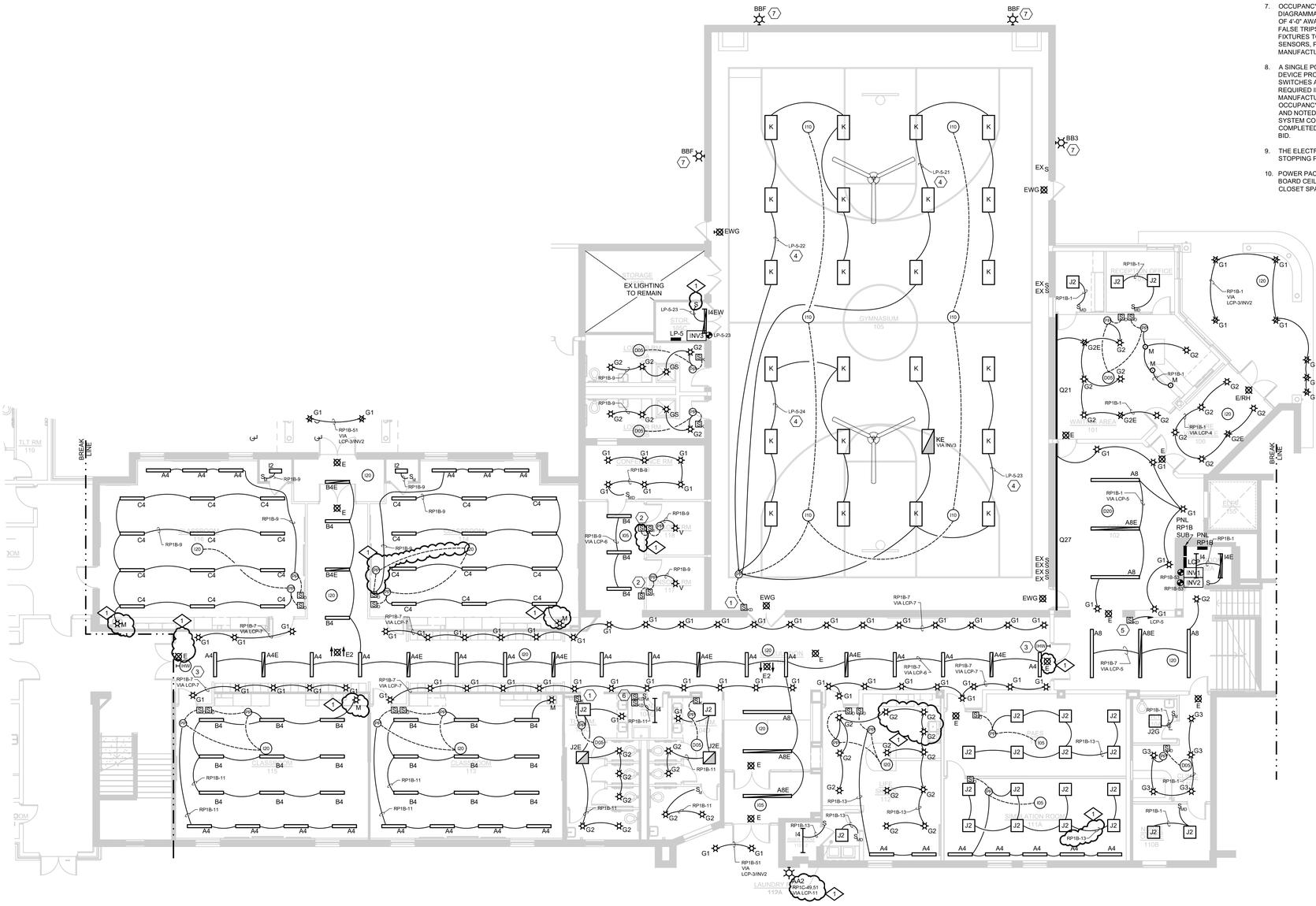
SHEET NUMBER
E2.01

KEYED NOTES

1. EXISTING ROUGH IN TO BE REUSED. FURNISH AND INSTALL NEW DEVICE.
2. SWITCH ON EXTERIOR OF SENSORY ROOM TO OVERRIDE SWITCH ON THE INTERIOR.
3. INSTALL HALLWAY OCCUPANCY SENSOR PER MANUFACTURER'S INSTRUCTIONS. MOUNT AT 7' AFF WITH CLEAR LINE-OF-SIGHT.
4. REPLACE EXISTING GYM LIGHT FIXTURES ONE-FOR-ONE. REUSE EXISTING LP-5 CIRCUIT. MODIFY AND EXTEND AS NECESSARY.
5. KEYED SWITCH SHALL BE MANUAL OVERRIDE FOR LOBBY LIGHTING.
6. LOW VOLTAGE KEYED SWITCH SHALL BE MANUAL OVERRIDE FOR CORRIDOR LIGHTING.
7. INSTALL FIXTURE IN SAME LOCATION OF REMOVED FLOODLIGHT. MODIFY AND EXTEND EXISTING CIRCUITING TO FEED NEW FIXTURE AS REQUIRED. ELECTRICAL CONTRACTOR SHALL VERIFY EXISTING CIRCUITING IS 208V, 1PH PRIOR TO ORDERING NEW LIGHT FIXTURES.

LIGHTING WIRING METHODS

1. EXIT LIGHTS SHALL OPERATE 24-7 AND ARE EQUIPPED WITH A BATTERY RATED FOR 90 MINUTES, WIRE THE EXIT LIGHT TO THE LOCAL LIGHTING CIRCUIT AHEAD OF ANY SWITCHING.
2. HALF-TONE SHADED FIXTURES REPRESENTS THE FIXTURE IS AN EMERGENCY LIGHT AND EQUIPPED WITH AN EMERGENCY BATTERY PACK.
3. CONFIRM LIGHT FIXTURE LAYOUT WITH THE ARCHITECTURAL REFLECTED CEILING PLAN AND ARCHITECTURAL DETAILS FOR LOCATION AND MOUNTING DETAILS.
4. MC CABLE IS ONLY ACCEPTABLE AS A FINAL WIRING CONNECTION TO RECESSED LIGHTING INSTALLED IN ACCESSIBLE CEILINGS. MC CABLE LENGTH SHALL NOT EXCEED 6'-0".
5. PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR FOR LIGHTING CIRCUITS. THE USE OF THE RACEWAY FOR A GROUNDING PATH IS NOT ACCEPTABLE FOR THIS PROJECT.
6. SMALL ROOMS SUCH AS STORAGE ROOM, INDIVIDUAL TOILET ROOMS, JANITORS CLOSET, DATA CLOSET AND OFFICES SHALL HAVE WALL SWITCH TYPE OCCUPANCY SENSORS SWITCHES TO AUTOMATICALLY CONTROL THE LIGHTS AS NOTED AND SPECIFIED ON THE DRAWINGS.
7. OCCUPANCY SENSORS, POWER PACKS AND CONTROLS ARE SHOWN DIAGRAMMATICALLY. INFRARED SENSORS MUST REMAIN AT A MINIMUM OF 4'-0" AWAY FROM ANY MECHANICAL HEAT DIFFUSER TO ELIMINATE FALSE TRIPS. CIRCUIT LINES ARE SHOWN FROM SWITCHES TO LIGHT FIXTURES TO COMMUNICATE SWITCHING CONFIGURATION ONLY. ALL SENSORS, POWER PACKS AND WIRING MUST BE WIRED PER MANUFACTURER'S WIRING METHOD.
8. A SINGLE POWER PACK CAN HAVE MULTIPLE SWITCHES WIRED TO THE DEVICE PROVIDED THAT THE FIXTURES BEING CONTROLLED BY THESE SWITCHES ARE ON THE SAME CIRCUIT. TWO POWER PACKS ARE REQUIRED IF A SECOND CIRCUIT IS INTRODUCED. REFER TO MANUFACTURER'S WIRING METHODS. POWER PACKS AND OR OCCUPANCY SENSORS SHALL INCLUDE A HVAC RELAY AS SCHEDULED AND NOTED ON THE DRAWINGS FOR THE BUILDING AUTOMATION SYSTEM CONNECTION. BUILDING AUTOMATION WIRING SHALL BE COMPLETED AS PART OF THE TEMPERATURE CONTROL CONTRACTOR'S BID.
9. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIRE STOPPING PENETRATIONS THRU FIRE RATED WALLS FOR THEIR WORK.
10. POWER PACKS SHOWN DIAGRAMMATICALLY. WHEN SHOWN IN GYP BOARD CEILING, LOCATE POWER PACK IN NEAREST LAY-IN CEILING OR CLOSET SPACE..



NORTH LIGHTING PLAN - MAIN LEVEL SOUTH WING - AREA B
1/8"=1'-0"

NO.	REVISION	DATE
1	ADDENDUM 1	08/31/23
	ISSUE FOR BID	08/23/23

AREA C / AREA B / AREA A

KEY PLAN
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PROJECT TITLE
ADDITION AND RENOVATION:
MIDLAND COUNTY ESA
MIDLAND, MICHIGAN

SHEET TITLE
LIGHTING PLAN - MAIN LEVEL SOUTH WING - AREA B

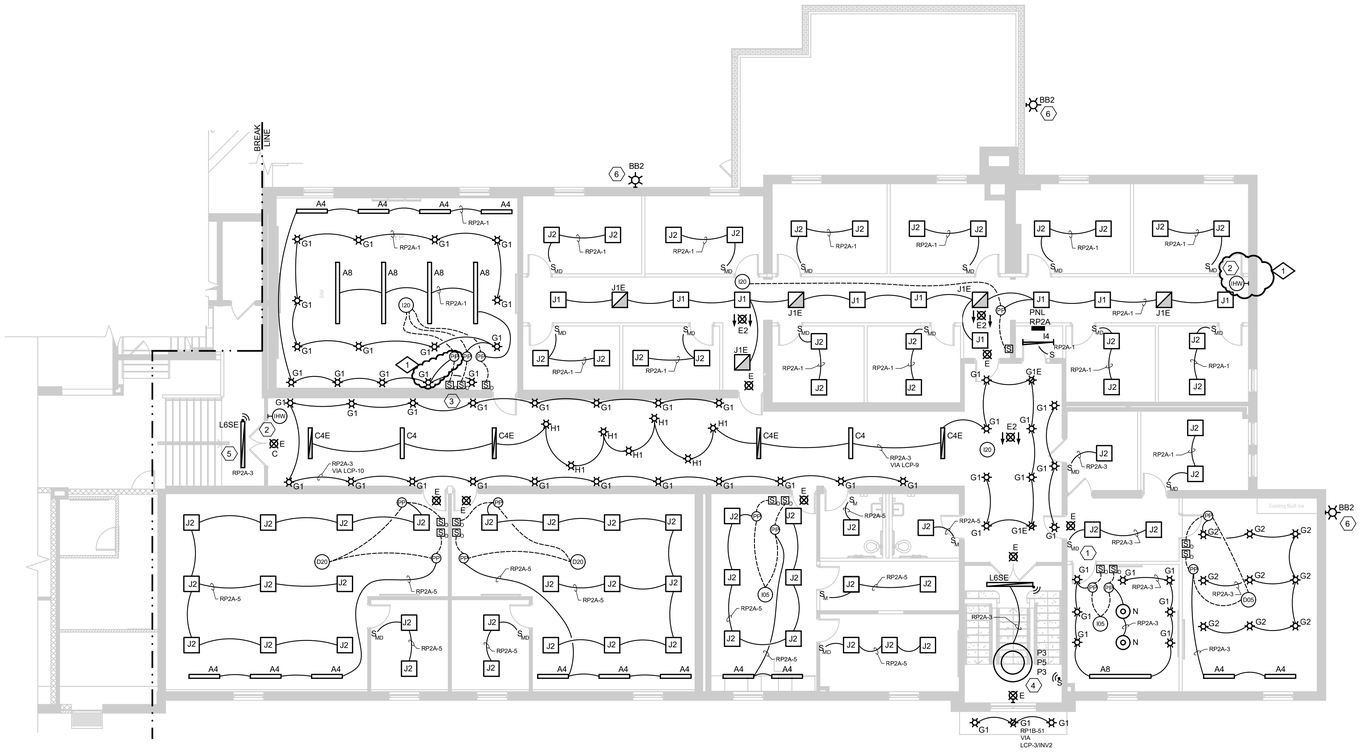
PROJECT NUMBER	SHEET NUMBER
2022006.1	E2.02
PROJECT DATE: AUGUST 23, 2023	
CHECKED BY: JWF	

KEYED NOTES

1. EXISTING ROUGH-IN TO BE REUSED. FURNISH AND INSTALL NEW DEVICE.
2. INSTALL HALLWAY OCCUPANCY SENSOR PER MANUFACTURER'S INSTRUCTIONS. MOUNT AT 7' AFF WITH CLEAR LINE-OF-SIGHT.
3. SWITCHES SHOWN DIAGRAMMATICALLY. ALL 3 SWITCHES SHALL BE ADJACENT.
4. CUSTOM PENDANT TO BE INSTALLED WITH 3', 5' AND 3' DIAMETER RINGS. SINGULAR POWER FEED WITH 3 POWER CORDS. COORDINATE MOUNTING DURING SUBMITTALS PHASE.
5. TYPE L6SE FIXTURE TO BE CONTROLLED WITH STAIRWELL FIXTURES.
6. INSTALL FIXTURE IN SAME LOCATION OF REMOVED FLOODLIGHT. MODIFY AND EXTEND EXISTING CIRCUITING TO FEED NEW FIXTURE AS REQUIRED. ELECTRICAL CONTRACTOR SHALL VERIFY EXISTING CIRCUITING IS 208V, 1PH PRIOR TO ORDERING NEW LIGHT FIXTURES.

LIGHTING WIRING METHODS

1. EXIT LIGHTS SHALL OPERATE 24-7 AND ARE EQUIPPED WITH A BATTERY RATED FOR 90 MINUTES, WIRE THE EXIT LIGHT TO THE LOCAL LIGHTING CIRCUIT AHEAD OF ANY SWITCHING.
2. HALF-TONE SHADED FIXTURES REPRESENTS THE FIXTURE IS AN EMERGENCY LIGHT AND EQUIPPED WITH AN EMERGENCY BATTERY PACK.
3. CONFIRM LIGHT FIXTURE LAYOUT WITH THE ARCHITECTURAL REFLECTED CEILING PLAN AND ARCHITECTURAL DETAILS FOR LOCATION AND MOUNTING DETAILS.
4. MC CABLE IS ONLY ACCEPTABLE AS A FINAL WIRING CONNECTION TO RECESSED LIGHTING INSTALLED IN ACCESSIBLE CEILINGS. MC CABLE LENGTH SHALL NOT EXCEED 6'-0".
5. PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR FOR LIGHTING CIRCUITS. THE USE OF THE RACEWAY FOR A GROUNDING PATH IS NOT ACCEPTABLE FOR THIS PROJECT.
6. SMALL ROOMS SUCH AS STORAGE ROOM, INDIVIDUAL TOILET ROOMS, JANITORS CLOSET, DATA CLOSET AND OFFICES SHALL HAVE WALL SWITCH TYPE OCCUPANCY SENSORS SWITCHES TO AUTOMATICALLY CONTROL THE LIGHTS AS NOTED AND SPECIFIED ON THE DRAWINGS.
7. OCCUPANCY SENSORS, POWER PACKS AND CONTROLS ARE SHOWN DIAGRAMMATICALLY. INFRARED SENSORS MUST REMAIN AT A MINIMUM OF 4'-0" AWAY FROM ANY MECHANICAL HEAT DIFFUSER TO ELIMINATE FALSE TRIPS. CIRCUIT LINES ARE SHOWN FROM SWITCHES TO LIGHT FIXTURES TO COMMUNICATE SWITCHING CONFIGURATION ONLY. ALL SENSORS, POWER PACKS AND WIRING MUST BE WIRED PER MANUFACTURER'S WIRING METHOD.
8. A SINGLE POWER PACK CAN HAVE MULTIPLE SWITCHES WIRED TO THE DEVICE PROVIDED THAT THE FIXTURES BEING CONTROLLED BY THESE SWITCHES ARE ON THE SAME CIRCUIT. TWO POWER PACKS ARE REQUIRED IF A SECOND CIRCUIT IS INTRODUCED. REFER TO MANUFACTURER'S WIRING METHODS. POWER PACKS AND OR OCCUPANCY SENSORS SHALL INCLUDE A HVAC RELAY AS SCHEDULED AND NOTED ON THE DRAWINGS FOR THE BUILDING AUTOMATION SYSTEM CONNECTION. BUILDING AUTOMATION WIRING SHALL BE COMPLETED AS PART OF THE TEMPERATURE CONTROL CONTRACTOR'S BID.
9. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIRE STOPPING PENETRATIONS THRU FIRE RATED WALLS FOR THEIR WORK.
10. POWER PACKS SHOWN DIAGRAMMATICALLY. WHEN SHOWN IN GYP BOARD CEILING, LOCATE POWER PACK IN NEAREST LAY-IN CEILING OR CLOSET SPACE.



NORTH LIGHTING PLAN - MAIN LEVEL NORTH WING - AREA A
1/8"=1'-0"

NO.	REVISION	DATE
1	ADDENDUM 1	08/31/23
	ISSUE FOR BID	08/23/23

AREA C | AREA B | AREA A

KEY PLAN
NORTH NO SCALE

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(989) 894-4305 F (989) 894-9930 WWW.MACMILLANASSOCIATES.COM

PROJECT TITLE
ADDITION AND RENOVATION:
MIDLAND COUNTY ESA
MIDLAND, MICHIGAN

SHEET TITLE
LIGHTING PLAN -
MAIN LEVEL
NORTH WING - AREA A

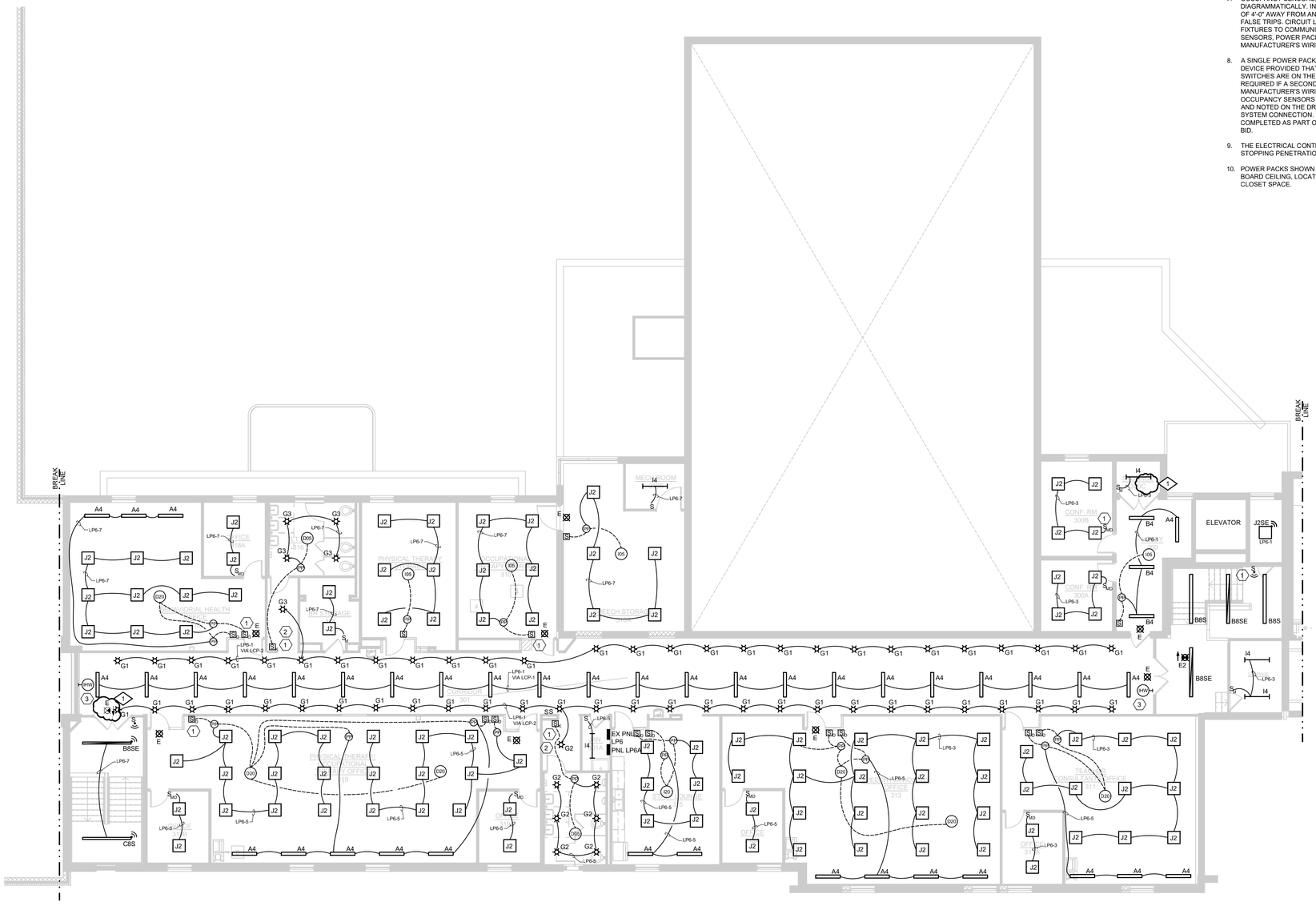
PROJECT NUMBER	SHEET NUMBER
2022006.1	E2.03
PROJECT DATE: AUGUST 23, 2023	
CHECKED BY: JWF	

KEYED NOTES

1. EXISTING ROUGH-IN TO BE REUSED. FURNISH AND INSTALL NEW DEVICE.
2. KEYED SWITCH SHALL CONTROL RESTROOM LIGHTS. EC SHALL CLEARLY LABEL SWITCH.
3. INSTALL HALLWAY OCCUPANCY SENSOR PER MANUFACTURER'S INSTRUCTIONS. MOUNT AT 7' AFF WITH CLEAR LINE-OF-SIGHT. TIE IN TO LCP-1.

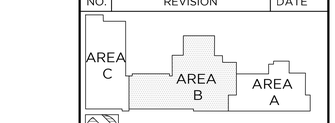
LIGHTING WIRING METHODS

1. EXIT LIGHTS SHALL OPERATE 24-7 AND ARE EQUIPPED WITH A BATTERY RATED FOR 90 MINUTES, WIRE THE EXIT LIGHT TO THE LOCAL LIGHTING CIRCUIT AHEAD OF ANY SWITCHING.
2. HALF-TONE SHADED FIXTURES REPRESENTS THE FIXTURE IS AN EMERGENCY LIGHT AND EQUIPPED WITH AN EMERGENCY BATTERY PACK.
3. CONFIRM LIGHT FIXTURE LAYOUT WITH THE ARCHITECTURAL REFLECTED CEILING PLAN AND ARCHITECTURAL DETAILS FOR LOCATION AND MOUNTING DETAILS.
4. MC CABLE IS ONLY ACCEPTABLE AS A FINAL WIRING CONNECTION TO RECESSED LIGHTING INSTALLED IN ACCESSIBLE CEILINGS. MC CABLE LENGTH SHALL NOT EXCEED 6'-0".
5. PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR FOR LIGHTING CIRCUITS. THE USE OF THE RACEWAY FOR A GROUNDING PATH IS NOT ACCEPTABLE FOR THIS PROJECT.
6. SMALL ROOMS SUCH AS STORAGE ROOM, INDIVIDUAL TOILET ROOMS, JANITORS CLOSET, DATA CLOSET AND OFFICES SHALL HAVE WALL SWITCH TYPE OCCUPANCY SENSORS SWITCHES TO AUTOMATICALLY CONTROL THE LIGHTS AS NOTED AND SPECIFIED ON THE DRAWINGS.
7. OCCUPANCY SENSORS, POWER PACKS AND CONTROLS ARE SHOWN DIAGRAMMATICALLY. INFRARED SENSORS MUST REMAIN AT A MINIMUM OF 4'-0" AWAY FROM ANY MECHANICAL HEAT DIFFUSER TO ELIMINATE FALSE TRIPS. CIRCUIT LINES ARE SHOWN FROM SWITCHES TO LIGHT FIXTURES TO COMMUNICATE SWITCHING CONFIGURATION ONLY. ALL SENSORS, POWER PACKS AND WIRING MUST BE WIRED PER MANUFACTURER'S WIRING METHOD.
8. A SINGLE POWER PACK CAN HAVE MULTIPLE SWITCHES WIRED TO THE DEVICE PROVIDED THAT THE FIXTURES BEING CONTROLLED BY THESE SWITCHES ARE ON THE SAME CIRCUIT. TWO POWER PACKS ARE REQUIRED IF A SECOND CIRCUIT IS INTRODUCED. REFER TO MANUFACTURER'S WIRING METHODS. POWER PACKS AND OR OCCUPANCY SENSORS SHALL INCLUDE A HVAC RELAY AS SCHEDULED AND NOTED ON THE DRAWINGS FOR THE BUILDING AUTOMATION SYSTEM CONNECTION. BUILDING AUTOMATION WIRING SHALL BE COMPLETED AS PART OF THE TEMPERATURE CONTROL CONTRACTOR'S BID.
9. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIRE STOPPING PENETRATIONS THRU FIRE RATED WALLS FOR THEIR WORK.
10. POWER PACKS SHOWN DIAGRAMMATICALLY. WHEN SHOWN IN GYP BOARD CEILING, LOCATE POWER PACK IN NEAREST LAY-IN CEILING OR CLOSET SPACE.



NORTH LIGHTING PLAN - UPPER LEVEL - AREA B
1/8"=1'-0"

NO.	REVISION	DATE
1	ADDENDUM 1	08/31/23
	ISSUE FOR BID	08/23/23



KEY PLAN
NORTH NO SCALE

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PROJECT TITLE
ADDITION AND RENOVATION:
MIDLAND COUNTY ESA
MIDLAND, MICHIGAN

SHEET TITLE
LIGHTING PLAN - UPPER LEVEL AREA B

PROJECT NUMBER
2022006.1

PROJECT DATE
AUGUST 23, 2023

CHECKED BY
JWF

SHEET NUMBER
E2.04

KEYED NOTES

1. INTERIOR LOW VOLTAGE SWITCH SHALL CONTROL ON/OFF, RAISE/LOWER, AND CCT IN SENSORS ROOM. EXTERIOR LOW VOLTAGE SWITCH SHALL BE MANUAL OVERRIDE.
2. INSTALL HALLWAY OCCUPANCY SENSOR PER MANUFACTURER'S INSTRUCTIONS. MOUNT AT 7' AFF WITH CLEAR LINE-OF-SIGHT. TIE IN TO LCP-1.
3. INSTALL HALLWAY OCCUPANCY SENSOR PER MANUFACTURER'S INSTRUCTIONS. MOUNT AT 7' AFF WITH CLEAR LINE-OF-SIGHT. TIE IN TO LCP-1.
4. CUSTOM PENDANT TO BE INSTALLED WITH 3', 5' AND 3' DIAMETER RINGS. SINGULAR POWER FEED WITH 3 POWER CORDS. COORDINATE MOUNTING DURING SUBMITTALS PHASE.
5. DIMMER SWITCHES SHALL BE USED TO CONTROL MAIN CORRIDOR LIGHTS AND CORRIDOR DOWN LIGHTS.

LIGHTING WIRING METHODS

1. EXIT LIGHTS SHALL OPERATE 24-7 AND ARE EQUIPPED WITH A BATTERY RATED FOR 90 MINUTES, WIRE THE EXIT LIGHT TO THE LOCAL LIGHTING CIRCUIT AHEAD OF ANY SWITCHING.
2. HALF-TONE SHADED FIXTURES REPRESENTS THE FIXTURE IS AN EMERGENCY LIGHT AND EQUIPPED WITH AN EMERGENCY BATTERY PACK.
3. CONFIRM LIGHT FIXTURE LAYOUT WITH THE ARCHITECTURAL REFLECTED CEILING PLAN AND ARCHITECTURAL DETAILS FOR LOCATION AND MOUNTING DETAILS.
4. MC CABLE IS ONLY ACCEPTABLE AS A FINAL WIRING CONNECTION TO RECESSED LIGHTING INSTALLED IN ACCESSIBLE CEILINGS. MC CABLE LENGTH SHALL NOT EXCEED 6'-0".
5. PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR FOR LIGHTING CIRCUITS. THE USE OF THE RACEWAY FOR A GROUNDING PATH IS NOT ACCEPTABLE FOR THIS PROJECT.
6. SMALL ROOMS SUCH AS STORAGE ROOM, INDIVIDUAL TOILET ROOMS, JANITORS CLOSET, DATA CLOSET AND OFFICES SHALL HAVE WALL SWITCH TYPE OCCUPANCY SENSORS SWITCHES TO AUTOMATICALLY CONTROL THE LIGHTS AS NOTED AND SPECIFIED ON THE DRAWINGS.
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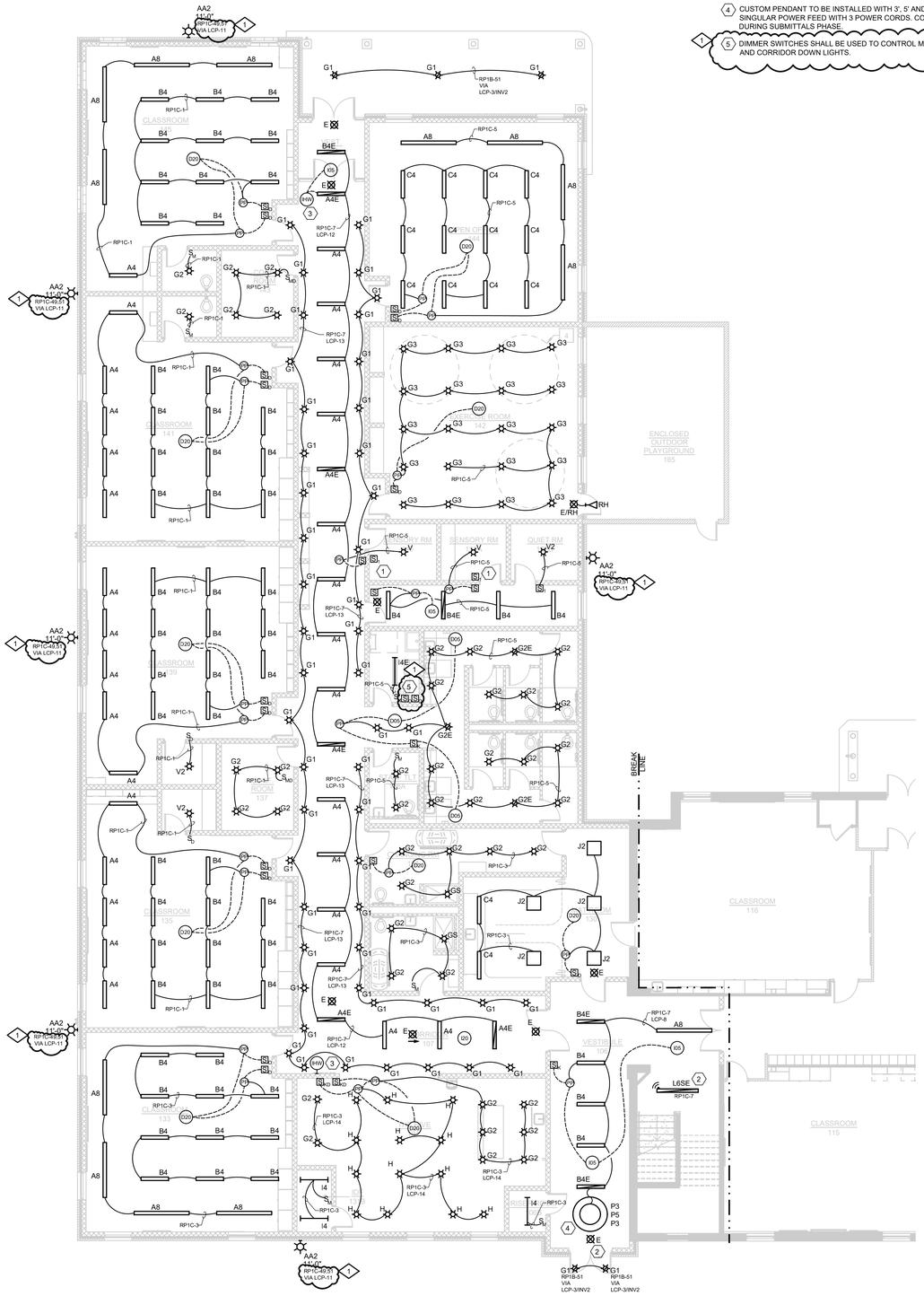
9. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIRE STOPPING PENETRATIONS THRU FIRE RATED WALLS FOR THEIR WORK.
10. POWER PACKS SHOWN DIAGRAMMATICALLY. WHEN SHOWN IN GYP BOARD CEILING, LOCATE POWER PACK IN NEAREST LAY-IN CEILING OR CLOSET SPACE.

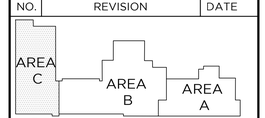


NORTH

LIGHTING PLAN - ADDITION - AREA C

1/8"=1'-0"

NO.	REVISION	DATE
1	ADDENDUM 1	08/31/23
	ISSUE FOR BID	08/23/23



KEY PLAN

NORTH NO SCALE

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PROJECT TITLE

ADDITION AND RENOVATION:

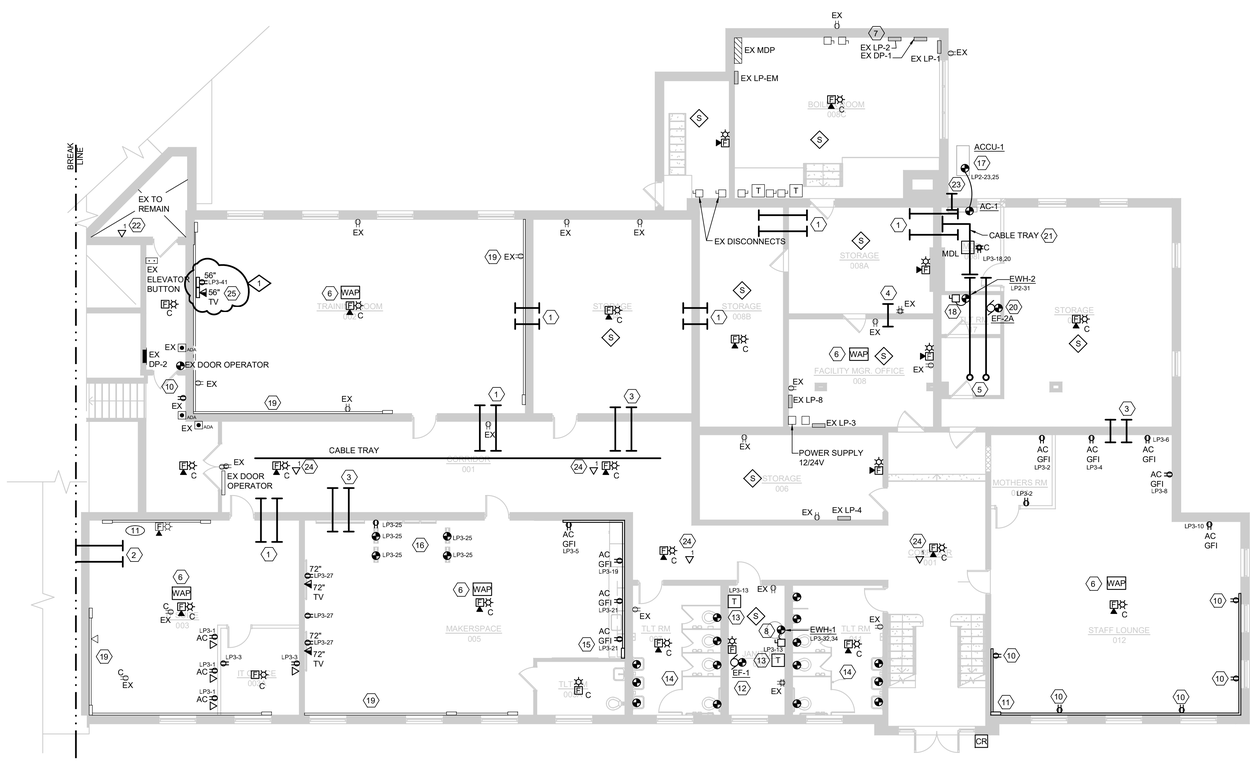
MIDLAND COUNTY ESA

MIDLAND, MICHIGAN

SHEET TITLE

LIGHTING PLAN
ADDITION
AREA C

PROJECT NUMBER	SHEET NUMBER
2022006.1	E2.05
PROJECT DATE: AUGUST 23, 2023	
CHECKED BY: JWF	



NORTH

POWER AND SYSTEMS PLAN - LOWER LEVEL - AREA A

1/8"=1'-0"

POWER & SYSTEMS WIRING METHODS

1. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH RECEPTACLE CIRCUIT; SHARED NEUTRALS ARE NOT PERMITTED.
2. PROVIDE EQUIPMENT GROUNDING CONDUCTOR FOR EACH RECEPTACLE. PROVIDE A #12 MINIMUM GROUNDING CONDUCTOR IN EACH RACEWAY. THE USE OF METAL CONDUIT OR RACEWAY FOR A BOND PATH IS NOT ACCEPTABLE FOR THIS PROJECT.
3. ALL POWER WIRING SHALL BE INSTALLED IN CONDUIT.
4. ALL NEW RECEPTACLES AND VOICE/DATA OUTLETS SHALL BE MOUNTED AT A MINIMUM OF 16" TO THE BOTTOM OF BOX ABOVE THE FINISHED FLOOR, UNLESS NOTED OTHERWISE. 18" IS ONLY AN ACCEPTABLE MOUNTING HEIGHT PENDING FOR MASONRY COARSE LINE INSTALLATION. COORDINATE ALL DEVICE HEIGHTS WITH ARCHITECT.
5. ELECTRICAL TRADES SHALL CONFIRM VOICE/DATA AND RECEPTACLE LOCATION WITH THE OWNER'S FURNITURE LAYOUTS AND INSTALLATION.
6. ALL RECEPTACLES SHALL BE TAMPER RESISTANT.
7. GENERAL PURPOSE DUPLEX RECEPTACLES SHALL BE WHITE, GRAY OR IVORY AS ADVISED BY THE ARCHITECT.
8. FIRE ALARM WIRING INSTALLED ABOVE THE FINISHED CEILING IS ACCEPTABLE TO USE THE FREE-AIR METHOD. USE "J" HOOKS OR "D" RINGS FOR SUPPORT METHODS. PROVIDE PLENUM RATED CABLE FOR THE ENTIRE PROJECT.
9. FIRE ALARM DEVICE MOUNTING HEIGHTS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72 NATIONAL FIRE ALARM CODE, BUREAU OF FIRE SERVICES, 2003 MICHIGAN BARRIER FREE DESIGN MANUAL AND OTHER APPLICABLE CODES. MOUNTING HEIGHT REQUIREMENTS:
   - WALL MOUNTED AUDIO/VISUAL UNITS SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" ABOVE THE FINISHED FLOOR. CEILING MOUNTED DEVICES ARE ACCEPTABLE AND ARE NOTED ON THE DRAWINGS.
   - MANUAL PULL STATIONS SHALL BE MOUNTED 48" MAXIMUM TO THE TOP OF BOX FROM THE FINISHED FLOOR.
9. ALL BRANCH DEVICES SHALL USE A 4" SQUARE STEEL BOX WITH A SINGLE GANG TRIM RING FOR INTERIOR GYPSUM BOARD WALLS. MASONRY BOXES ARE ACCEPTABLE FOR MASONRY WALL INSTALLATION. NON-METALLIC BOXES ARE NOT ACCEPTABLE FOR THIS PROJECT.
10. J-HOOKS AND CONDUIT OR CABLE TRAY SHALL BE USED FOR THE LOW-VOLTAGE SYSTEM WIRING INCLUDING BUT NOT LIMITED TO: FIRE ALARM, VOICE, DATA, PA, LIGHTING CONTROL, ETC.
11. USE MINIMUM 1" CONDUIT SIZE FOR VOICE/DATA OUTLET DROPS. EXTEND THE CONDUIT TO THE ADJACENT CORRIDOR ACCESSIBLE CEILING SPACE.
12. MC CABLE IS ONLY ACCEPTABLE FOR FINAL LIGHT FIXTURE CONNECTIONS ABOVE THE LAY-IN CEILING ON THIS PROJECT, UNLESS SPECIFICALLY NOTED.
13. RECEPTACLES, VOICE AND DATA OUTLET LOCATIONS SHOWN IN THE OFFICES, WORKROOM, CONFERENCE/LOUNGE AREA ARE BASED ON WORKSTATION, CASEWORK SHOWN AND THE ANTICIPATED OFFICE FURNITURE ARRANGEMENTS. CONFIRM THE FINAL LOCATIONS DURING THE ROUGH-IN PHASE.
14. VERIFY LOCATION AND ORIENTATION OF EXISTING STRUCTURAL FRAMING PRIOR TO CORING FLOOR FOR PENETRATION. EXISTING FRAMING SHALL NOT BE CUT, ADJUSTED, OR CHANGED IN ANY WAY WITHOUT APPROVAL OF STRUCTURAL ENGINEER AND ARCHITECT.
15. VERIFY ADA OPERATOR LOCATIONS WITH ARCHITECTURAL PLANS AND DOOR HARDWARE VENDOR PRIOR TO ROUGH-IN.

KEYED NOTES

1. FURNISH AND INSTALL (4) 2" CONDUIT STUBS INTO ACCESSIBLE CEILING SPACE FOR LOW VOLTAGE CABLING.
2. FURNISH AND INSTALL (4) 2" CONDUIT STUBS. DESIGN INTENT IS TO PROVIDE CONDUIT PATH FROM LOWER LEVEL AREA A MDF TO MAIN LEVEL AREA B IDF ROOM. COORDINATE LOCATION WITH CONDUIT STUBS FROM IDF ROOM.
3. FURNISH AND INSTALL (2) 2" CONDUIT STUBS INTO ACCESSIBLE CEILING SPACE. (1) CONDUIT SHALL BE AN EMPTY SPARE.
4. FURNISH AND INSTALL (1) 2" CONDUIT STUB THROUGH WALL INTO ACCESSIBLE CEILING SPACE.
5. FURNISH AND INSTALL (4) 2" CONDUIT FROM MDF ROOM TO ACCESSIBLE CEILING SPACE BENEATH PANEL RP2A ELECTRICAL ROOM. COORDINATE LOCATION WITH CONDUIT STUBS IN FLOOR ABOVE.
6. INSTALL FLUSH MOUNTED DATA JACK IN CEILING FOR WIRELESS ACCESS POINT.
7. EX PANEL LP-EM TO BE REFED FROM PANEL LP-2. FURNISH AND INSTALL 100A/2P BREAKER IN LP-2.
8. FURNISH AND INSTALL 30 AMP NEMA 1 DISCONNECT. PROVIDE 208V, 1PH POWER CONNECTION FROM DISCONNECT TO ELECTRIC WATER HEATER.
9. FURNISH AND INSTALL NEW DEVICE IN EXISTING ROUGH-IN. REUSE EXISTING CIRCUIT.
10. MODIFY AND EXTEND EXISTING CIRCUITING TO FEED NEW DEVICE.
11. FURNISH AND INSTALL NEW WIREMOLD 700 SERIES SURFACE RACEWAY. VERTICAL RUN IN CORNER, HORIZONTAL RUN AT RECEPTACLE STANDARD HEIGHT.
12. REUSE EXISTING EXHAUST FAN CIRCUIT TO FEED NEW EF-1 THROUGH FACTORY MOUNTED DISCONNECT. MODIFY AND EXTEND CIRCUIT AS REQUIRED.
13. INSTALL AND WIRE LOW VOLTAGE TRANSFORMER FURNISHED BY MECHANICAL TRADES. RUN LOW VOLTAGE WIRING TO BATHROOM SENSORS.
14. PROVIDE LOW VOLTAGE POWER CONNECTIONS TO BATHROOM SENSORS AS REQUIRED BY THE MECHANICAL SCHEDULE.
15. FURNISH AND INSTALL NEW WIREMOLD 700 SERIES SURFACE RACEWAY. VERTICAL RUN IN CORNER, HORIZONTAL RUN ABOVE COUNTER.
16. PROVIDE POWER CONNECTION FROM CEILING TO ILLUMINATED MARKER BOARDS THROUGH POST.
17. PROVIDE 208V, 1PH POWER CONNECTION TO ACC-1 THROUGH FACTORY MOUNTED AND WIRED DISCONNECT.
18. FURNISH AND INSTALL 30A NEMA 1 DISCONNECT UNDERNEATH SINK CABINET. PROVIDE 120V POWER CONNECTION FROM DISCONNECT TO EWH-2.
19. EXISTING WIREMOLD TO REMAIN.
20. USE EXISTING EXHAUST FAN CIRCUIT TO FEED NEW EXHAUST FAN THROUGH FACTORY MOUNTED.
21. FURNISH AND INSTALL 12 STRAND ARMORED FIBER OPTIC FROM MDL RACK TO EACH OF THE IDL RACKS. ROUTE THRU BUILDING. PROVIDE ALL TERMINATIONS.
22. ELECTRICAL CONTRACTOR SHALL PROVIDE CAT6 CABLE FROM ELEVATOR CONTROLLER TO MDL RACK.
23. ELECTRICAL CONTRACTOR SHALL PROVIDE NEW 1" RGS CONDUIT STUB 12" BELOW CEILING LINE TO EXTERIOR FOR USE BY OWNER FOR NEW BUILDING FIBER.
24. ELECTRICAL CONTRACTOR SHALL ADD DATA JACK IN CORRIDOR FOR FUTURE OWNER SPEAKERS/INTERCOM SYSTEM.
25. ELECTRICAL CONTRACTOR SHALL INSTALL WIRE MOLD VERTICALLY DOWN WALL FOR TV DEVICES.

NO.	REVISION	DATE
1	ADDENDUM 1	08/31/23
	ISSUE FOR BID	08/23/23

AREA C / AREA B / AREA A

KEY PLAN

NORTH NO SCALE

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PROJECT TITLE

ADDITION AND RENOVATION:

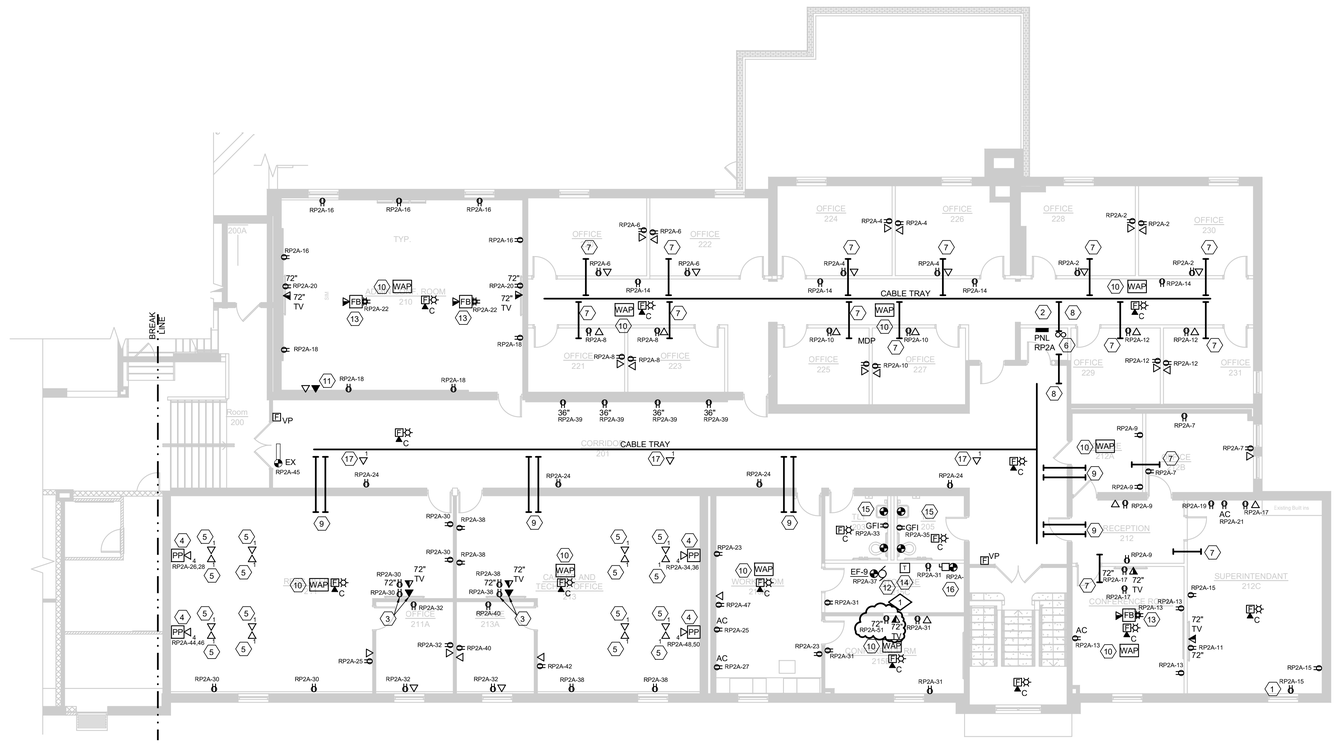
MIDLAND COUNTY ESA

MIDLAND, MICHIGAN

SHEET TITLE

POWER AND SYSTEMS PLAN
LOWER LEVEL
AREA A

PROJECT NUMBER	SHEET NUMBER
2022006.1	E2.06
PROJECT DATE: AUGUST 23, 2023	
CHECKED BY: JWF	



NORTH

POWER AND SYSTEMS PLAN - MAIN LEVEL NORTH WING - AREA A

1/8"=1'-0"

POWER & SYSTEMS WIRING METHODS

1. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH RECEPTACLE CIRCUIT. SHARED NEUTRALS ARE NOT PERMITTED.
2. PROVIDE EQUIPMENT GROUNDING CONDUCTOR FOR EACH RECEPTACLE. PROVIDE A #12 MINIMUM GROUNDING CONDUCTOR IN EACH RACEWAY. THE USE OF METAL CONDUIT OR RACEWAY FOR A BOND PATH IS NOT ACCEPTABLE FOR THIS PROJECT.
3. ALL POWER WIRING SHALL BE INSTALLED IN CONDUIT.
4. ALL NEW RECEPTACLES AND VOICE/DATA OUTLETS SHALL BE MOUNTED AT A MINIMUM OF 16" TO THE BOTTOM OF BOX ABOVE THE FINISHED FLOOR, UNLESS NOTED OTHERWISE. 18" IS ONLY AN ACCEPTABLE MOUNTING HEIGHT PENDING FOR MASONRY COARSE LINE INSTALLATION. COORDINATE ALL DEVICE HEIGHTS WITH ARCHITECT.
5. ELECTRICAL TRADES SHALL CONFIRM VOICE/DATA AND RECEPTACLE LOCATION WITH THE OWNER'S FURNITURE LAYOUTS AND INSTALLATION.
6. ALL RECEPTACLES SHALL BE TAMPER RESISTANT.
7. GENERAL PURPOSE DUPLEX RECEPTACLES SHALL BE WHITE, GRAY OR IVORY AS ADVISED BY THE ARCHITECT.
8. FIRE ALARM WIRING INSTALLED ABOVE THE FINISHED CEILING IS ACCEPTABLE TO USE THE FREE-AIR METHOD. USE "J" HOOKS OR "D" RINGS FOR SUPPORT METHODS. PROVIDE PLENUM RATED CABLE FOR THE ENTIRE PROJECT.
9. FIRE ALARM DEVICE MOUNTING HEIGHTS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72 NATIONAL FIRE ALARM CODE, BUREAU OF FIRE SERVICES, 2003 MICHIGAN BARRIER FREE DESIGN MANUAL AND OTHER APPLICABLE CODES. MOUNTING HEIGHT REQUIREMENTS:

- WALL MOUNTED AUDIO/VISUAL UNITS SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" ABOVE THE FINISHED FLOOR. CEILING MOUNTED DEVICES ARE ACCEPTABLE AND ARE NOTED ON THE DRAWINGS.
- MANUAL PULL STATIONS SHALL BE MOUNTED 48" MAXIMUM TO THE TOP OF BOX FROM THE FINISHED FLOOR.

9. ALL BRANCH DEVICES SHALL USE A 4" SQUARE STEEL BOX WITH A SINGLE GANG TRIM RING FOR INTERIOR GYPSUM BOARD WALLS. MASONRY BOXES ARE ACCEPTABLE FOR MASONRY WALL INSTALLATION. NON-METALLIC BOXES ARE NOT ACCEPTABLE FOR THIS PROJECT.
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11. USE MINIMUM 1" CONDUIT SIZE FOR VOICE/DATA OUTLET DROPS. EXTEND THE CONDUIT TO THE ADJACENT CORRIDOR ACCESSIBLE CEILING SPACE.
12. MC CABLE IS ONLY ACCEPTABLE FOR FINAL LIGHT FIXTURE CONNECTIONS ABOVE THE LAY-IN CEILING ON THIS PROJECT, UNLESS SPECIFICALLY NOTED.
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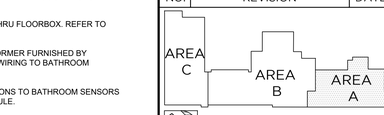
15. VERIFY ADA OPERATOR LOCATIONS WITH ARCHITECTURAL PLANS AND DOOR HARDWARE VENDOR PRIOR TO ROUGH-IN.

KEYED NOTES

1. EXISTING ROUGH-IN TO BE REUSED. FURNISH AND INSTALL NEW DEVICE AND CONDUCTORS.
2. FURNISH AND INSTALL NEW PANEL RP2A. REFER TO ONE LINE.
3. FURNISH AND INSTALL POWER AND HDMI TV PORT 6" ABOVE DESK TO CENTERLINE OF ROUGH-INS.
4. ROUTE POWER AND DATA THROUGH POWER POLE. EACH DESK SHALL HAVE ONE RECEPTACLE AND ONE DATA PORT.
5. UTILIZE POWER POLE FOR POWER AND RACEWAY FOR DATA TO DESK.
6. FURNISH AND INSTALL (2) 4" CONDUITS THROUGH FLOOR FOR DATA ROUTING.
7. FURNISH AND INSTALL (1) 2" CONDUIT INTO ACCESSIBLE CEILING SPACE.
8. FURNISH AND INSTALL (1) 4" CONDUIT FOR DATA ROUTING TO CABLE TRAY.
9. FURNISH AND INSTALL (2) 2" CONDUITS INTO ACCESSIBLE CEILING SPACE. (1) CONDUIT SHALL BE AN EMPTY SPARE.
10. INSTALL FLUSH MOUNTED DATA JACK IN CEILING FOR WIRELESS ACCESS POINT.
11. ROUTE 1" CONDUIT FROM HDMI OUTLET TO ACCESSIBLE CEILING SPACE AND TO ACCESSIBLE CEILING SPACE IN FLOOR BELOW. (1) HDMI WILL BE CONNECTED TO EACH FLOORBOX, AND (1) HDMI WILL BE CONNECTED TO EACH TV. (4) CONNECTIONS IN TOTAL WILL BE AVAILABLE AT HDMI OUTLET.
12. PROVIDE POWER CONNECTION TO EXHAUST FAN THROUGH FACTORY MOUNTED DISCONNECT.
13. FURNISH AND INSTALL FIRE RATED POKE-THRU FLOORBOX. REFER TO ELECTRICAL SCHEDULES.
14. INSTALL AND WIRE LOW VOLTAGE TRANSFORMER FURNISHED BY MECHANICAL TRADES. RUN LOW VOLTAGE WIRING TO BATHROOM SENSORS.
15. PROVIDE LOW VOLTAGE POWER CONNECTIONS TO BATHROOM SENSORS AS REQUIRED BY THE MECHANICAL SCHEDULE.
16. FURNISH AND INSTALL 30A NEMA 1 DISCONNECT UNDERNEATH SINK CABINET. PROVIDE 120V POWER CONNECTION FROM DISCONNECT TO EWH-2.
17. ELECTRICAL CONTRACTOR SHALL ADD DATA JACK IN CORRIDOR FOR FUTURE OWNER SPEAKERS/INTERCOM SYSTEM.

NO.	REVISION	DATE
1	ADDENDUM 1	08/31/23
	ISSUE FOR BID	08/23/23



KEY PLAN

NORTH NO SCALE

WTAARCH.COM

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PROJECT TITLE

ADDITION AND RENOVATION:

MIDLAND COUNTY ESA

MIDLAND, MICHIGAN

SHEET TITLE

POWER AND SYSTEMS PLAN
MAIN LEVEL
NORTH WING - AREA A

PROJECT NUMBER	SHEET NUMBER
2022006.1	E2.08
PROJECT DATE: AUGUST 23, 2023	
CHECKED BY: JWF	

NEW

LIGHTING CONTROL PANEL: LCP

RELAY	ZONE CONTROLLED	CHANNEL	CIRCUIT	RELAY	ZONE CONTROLLED	CHANNEL	CIRCUIT
1	CORRIDOR 301 LINEARS	B	LP6-1	13	ADDITION CORR. DOWNLIGHTS	B	RP1C-7
2	CORRIDOR 301 DOWNLIGHTS	B	LP6-1	14	HIVE LIGHTS	B	RP1C-3
3	ALL CANOPY DOWNLIGHTS	A	VARIOUS	15	SPARE		
4	SECURE VESTIBULE		RP1B-1	16	SPARE		
5	LOBBY	B	RP1B-1,7	17			
6	CORRIDOR 104 LINEARS	B	RP1B-7,9	18			
7	CORRIDOR 104 DOWNLIGHTS	B	RP1B-7	19			
8	ADDITION CORR.	B	RP1C-7	20			
9	MAIN LEVEL N. WING CORRIDOR	B	RP2A-3	21			
10	MAIN LEVEL N. WING CORR. DOWNLIGHTS	B	RP2A-5	22			
11	EXTERIOR LIGHTS	A	RP1C-49,51	23			
12	ADDITION CORR. LINEARS	B	RP1C-7	24			

1

CHANNELS:	A	PHOTOCELL DUSK TILL 11PM. 4AM TO DAWN.
	B	KEYED SWITCH OVERRIDE. OCC SENSOR CONTROL.
	C	NOT USED
NOTES:	1	ACUITY #ARP
	2	

LIGHTING CONTROL EXECUTIVE SUMMARY

GYMNASIUM
KEYED SWITCH MANUAL ON/OFF, RAISE/LOWER. MOTION AUTO ON TO 50%, AUTO OFF AFTER 20 MIN. NO ACTIVITY.

CORRIDORS
KEYED SWITCH MANUAL ON/OFF, RAISE/LOWER. SEPARATE CONTROL OF DOWNLIGHTS AND LINEARS. MOTION AUTO ON TO LAST SETTING. AUTO OFF AFTER 20 MIN. NO ACTIVITY.

CLASSROOMS
MANUAL ON/OFF, RAISE/LOWER. SEPARATE CONTROL OF MAIN CLASSROOM LIGHTS AND TEACHER BOARD LIGHTING.
AUTO ON TO 50%. AUTO OFF AFTER 20 MIN. NO ACTIVITY.

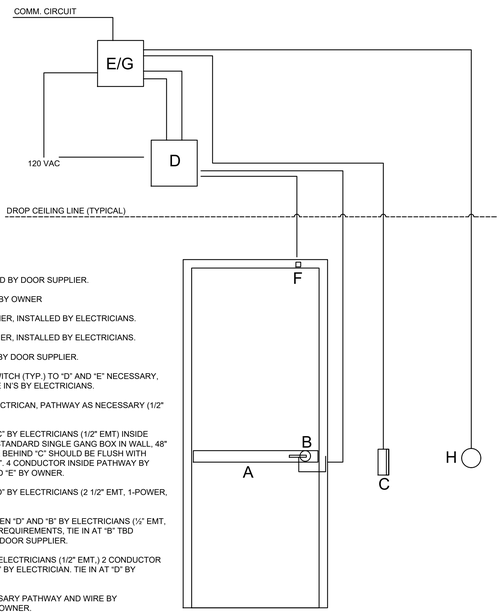
OFFICES
MANUAL ON/OFF, RAISE/LOWER. AUTO OFF AFTER 20 MIN. NO ACTIVITY.

ADMIN CONFERENCE ROOM
SEPARATE MANUAL ON/OFF, RAISE/LOWER CONTROL OF 3 LIGHTING ZONES. CONFERENCE TABLE LINEARS MOTION AUTO ON TO 50%. ALL LIGHTS AUTO OFF AFTER 20 MIN. NO ACTIVITY.

EXTERIOR CANOPY DOWNLIGHTS
DUSK TO 4PM. 4AM TO DAWN.

EXTERIOR BUILDING MOUNT LIGHTING
ALL LIGHTS TO BE INSTALLED WITH INTEGRATED PHOTOSENSORS. ALL FIXTURES SHALL WIRELESSLY COMMUNICATE TO TURN ON AND OFF SYNCHRONOUSLY. AUTO ON AT DUSK, OFF AT 11PM. AUTO ON AT 6AM, OFF AT DUSK.

A EXIT DEVICE
B POWER TRANSFER (ELECTRIC CRASH BAR, STRIKE, OR LATCH)
C CARD/SLOT/SHROUD/MOUNTING PLATE
D POWER SUPPLY
(ONLY NEEDED WITH CRASH BARS AND/OR DOORS WITH HANDICAP OPENERS)
E ENCLOSURE AND POWER SUPPLY
F DOOR POSITION SWITCH
G MASTER/DOOR CONTROLLER
H HANDICAP PUSH BUTTON



- "A, B" SUPPLIED AND INSTALLED BY DOOR SUPPLIER.
- "C" SUPPLIED AND INSTALLED BY OWNER
- "D" SUPPLIED BY DOOR SUPPLIER, INSTALLED BY ELECTRICIANS.
- "E" SUPPLIED BY DOOR SUPPLIER, INSTALLED BY ELECTRICIANS.
- "F" SUPPLIED AND INSTALLED BY DOOR SUPPLIER.
- 120 VAC SUPPLY THROUGH SWITCH (TYP.) TO "D" AND "E" NECESSARY, CAN BE SAME CIRCUIT. ALL TIE IN'S BY ELECTRICIANS.
- "COMM CIRCUIT" TO "E" BY ELECTRICAN, PATHWAY AS NECESSARY (1/2" EMT) BY ELECTRICIANS.
- PATHWAY BETWEEN "E" AND "C" BY ELECTRICIANS (1/2" EMT) INSIDE WALL (TYP.) TERMINATES TO STANDARD SINGLE GANG BOX IN WALL, 48" ON CENTER, "BEHIND" "C". BOX BEHIND "C" SHOULD BE FLUSH WITH EXTERIOR BUILDING SURFACE". 4 CONDUCTOR INSIDE PATHWAY BY ELECTRICIAN. TIE IN AT "C" AND "E" BY OWNER.
- PATHWAY BETWEEN "E" AND "D" BY ELECTRICIANS (2 1/2" EMT, 1-POWER, 1-COMM.)
- PATHWAY AND WIRING BETWEEN "D" AND "B" BY ELECTRICIANS (½" EMT, WIRE BASED ON DOOR SPEC. REQUIREMENTS, TIE IN AT "B" TBD BETWEEN ELECTRICIANS AND DOOR SUPPLIER.
- PATHWAY FROM "D" TO "F" BY ELECTRICIANS (1/2" EMT,) 2 CONDUCTOR WIRING FROM "E" TO "F" VIA "D" BY ELECTRICIAN. TIE IN AT "D" BY OWNER".
- INPUT FROM "H" TO "G" NECESSARY PATHWAY AND WIRE BY ELECTRICIAN, TIE IN AT "E" BY OWNER.

CARD READER SCHEMATIC
NO SCALE

LIGHTING SCHEDULE

A4 4' LINEAR LED FLAT PANEL. 2000 LUMEN, 80 CRI, 4000K, FLAT FRAME, SATIN WHITE LENS, 1%MIN DIMMING, 120-277V, MATTE WHITE FINISH. 500LM/FT, 16.7 WATT.
LITHONIA #LSIX 4FT 2000LM 80CRI 40K FFR SWL MIN1 EZT MVOLT MW

A8 SAME AS TYPE A4 EXCEPT 8' LONG, 4000 LUMENS, 29.8 WATT.

B4 4' LINEAR LED FLAT PANEL. 3000 LUMEN, 80 CRI, 4000K, FLAT FRAME, SATIN WHITE LENS, 1%MIN DIMMING, 120-277V, MATTE WHITE FINISH. 750 LM/FT, 24.7 WATT.
LITHONIA #LSIX 4FT 3000LM 80CRI 40K FFR SWL MIN1 EZT MVOLT MW

B8 SAME AS TYPE B4 EXCEPT 8' LONG, 6000 LUMENS, 44.3 WATT.

B8E SAME AS TYPE B8 EXCEPT WITH 10 WATT EMERGENCY BATTERY PACK #E10WLCP

B8S SAME AS TYPE B8 EXCEPT WITH INTEGRAL WIRELESS OCCUPANCY SENSOR.
#NLTAIR2 PIR

B8SE SAME AS TYPE B8 EXCEPT WITH 10 WATT EMERGENCY BATTERY AND INTEGRAL WIRELESS OCCUPANCY SENSOR.
#E10WLCP NLTAIR2 PIR

C4 4' LINEAR LED FLAT PANEL. 4000 LUMEN, 80 CRI, 4000K, FLAT FRAME, SATIN WHITE LENS, 1%MIN DIMMING, 120-277V, MATTE WHITE FINISH. 1000 LM/FT, 33.3 WATT.
LITHONIA #LSIX 4FT 4000LM 80CRI 40K FFR SWL MIN1 EZT MVOLT MW

C8 SAME AS TYPE C4 EXCEPT 8' LONG, 8000 LUMEN, 60.3 WATT.

C8E SAME AS TYPE B8 EXCEPT WITH 10 WATT EMERGENCY BATTERY PACK #E10WLCP

C8S SAME AS TYPE C8 EXCEPT WITH INTEGRAL WIRELESS OCCUPANCY SENSOR.
#NLTAIR2 PIR

E LED SINGLE SIDED EXIT SIGN, RED LETTERS.
LITHONIA #LQM

E2 SAME AS TYPE E BUT DOUBLE SIDED

E/RH LED EXIT WITH HIGH OUTPUT BATTERY, RED LETTERS, WHITE.
LITHONIA #LHQM LED HO RO

RHW WET LOCATION EMERGENCY REMOTE HEAD LED, 320 LUMEN, 3.3 WATT, SINGLE HEAD, DARK BRONZE FINISH.
LITHONIA #ELMRW SP640L DDBTXD SGL

F NOT USED

G1 4" ROUND LED DOWNLIGHT, 3500K, 1000 LUMENS, 10.6 WATT, WHITE TRIM, MATTE DIFFUSE FINISH, WHITE FLANGE, 120-277V, 1%MIN DIMMING.
LITHONIA #LDN4 35/10 LO4 WR LD TRW MVOLT EZ1

G1E SAME AS TYPE G1 EXCEPT WITH 10 WATT EMERGENCY BATTERY PACK.

G2 SAME AS TYPE G1 EXCEPT 1500 LUMENS, 17.5 WATTS

G2E SAME AS TYPE G2 EXCEPT WITH A 10 WATT EMERGENCY BATTERY

G3 SAME AS TYPE G1 EXCEPT 2000 LUMENS, 22.5 WATTS

G3E SAME AS TYPE G3 EXCEPT WITH A 10 WATT EMERGENCY BATTERY

GS 4" ROUND SHOWER DOWNLIGHT. WET LOCATION LISTED. IP66 RATED. 1000 LUMEN, 9 WATT, FLUSH SMOOTH LENS, 120V, WHITE TRIM.
GOTHAM #EVO4SH 35/10 DFF SMO 120

H1 6" LED CYLINDER PENDANT DOWNLIGHT. 3500K, 2000 LUMEN, 10.4 WATT, BLACK.
LITHONIA #LDN6CYL 35/10 L06BR LD 120 GZ10 PM DBL

H2 6" LED CYLINDER PENDANT DOWNLIGHT. 3500K, 2000 LUMEN, 22.5 WATT, BLACK.
LITHONIA #LDN6CYL 35/20 L06BR LD 120 GZ10 PM DBL

I2 CLX LED LINEAR, 24", 2000 LUMENS, STANDARD EFFICIENCY, LESS LOUVER, FLAT DIFFUSE LENS,GENERAL DISTRIBUTION, 120-277V, GENERIC 0-10V DIMS TO 1%, 4000K, 80CRI, WHITE FINISH, 14.5 WATTS
LITHONIA #CLX L24 2000LM SEF FDL MVOLT GZ1 40K 80CRI WH

I3 SAME AS TYPE I2 EXCEPT 36", 3000 LUMENS, 20.8 WATTS

I4 SAME AS TYPE I2 EXCEPT 48", 4000 LUMENS, 25.5 WATTS

I4E SAME AS TYPE I4 EXCEPT WITH A 10 WATT EMERGENCY BATTERY

J1 2x2 LED FLAT PANEL. 2000 LUMENS, 16 WATT, 80CRI, 4000K, SATIN LENS, 1%MIN DIMMING, 120-277V.
LITHONIA #CPX 2X2 2000LM 80CRI 40K SWL MIN1 ZT MVOLT

J1E SAME AS TYPE J1 EXCEPT WITH 10 WATT EMERGENCY BATTERY

J2 SAME AS TYPE J1 EXCEPT 3200LM, 30 WATT.

J2E SAME AS TYPE J2 EXCEPT WITH 10 WATT EMERGENCY BATTERY

J2SE SAME AS TYPE J2E EXCEPT WITH INTEGRAL WIRELESS SENSOR.
ACUITY #NLTAIR2 PIR

K 2'X4' LED HIGHBAY RETROFIT. 16,600 LUMENS, 105 WATTS, 120-277V, 4000K, DIMS TO 1%, 0-10V DIMMING, FROSTED IMPACT RESISTANT POLYCARBONATE LENS, SOLID ALUMINUM CONSTRUCTION.
ESI #K 24LT D41X5HO 40 D FR-FL CUSTOM POLYCARBONATE LENS

L4 4' SURFACE MOUNT LED LINEAR. 800 LUMEN/FT, 3500K, 1%MIN DIMMING, 120-277V, FLUSH LENS, WHITE FINISH, 6.33 WATT/FT, 25.3 WATTS.
MARK #S4SD XXX 4_FT XXXX 80CRI 35K 800LMF SCT MIN1 FLL MVOLT WHTT

L4E SAME AS TYPE L4 EXCEPT WITH 10 WATT EMERGENCY BATTERY PACK.

L6 SAME AS TYPE L4 EXCEPT 6', 38 WATTS.

L6E SAME AS TYPE L6 EXCEPT WITH 10 WATT EMERGENCY BATTERY PACK.

L6SE SAME AS TYPE L6E EXCEPT WITH WIRELESS OCCUPANCY SENSOR.
#NLTAIR2 PDT

M SEMI-RECESSED GLASS CONE DOWNLIGHT. 2000 LUMENS, 3500K, 120V, 22 WATTS.
DELRAY #KLS31 2 W35 D 120

N LED DOME PENDANT. 2500 LUMEN, 3500K, 120-277V, 1%MIN DIMMING, CUSTOM FINISHES, 22 WATTS.
VISA #CP4410 L35K(L) 80CRI MVOLT

P3 3' DIAMETER LED RING PENDANT. SILVER FINISH, LOW OUTPUT, 3500K, SEPARATE MOUNT, DIMMING, REMOTE DRIVER, SILVER CANOPY, BLACK POWER CORD, 51 WATT, 3780 LUMEN. TO BE MOUNTED WITH (1) P5 AND (1) ADDITONAL P3. COORDINATE MOUNTING WITH ARCHITECTURAL DETAILS DURING SHOP DRAWING PHASE.
DELRAY #6813 S W35 S D RR

P5 SAME AS TYPE P3 EXCEPT 5' DIAMETER, 85 WATT, 6300 LUMEN. TO BE MOUNTED WITH (1) P5 AND (1) ADDITIONAL P3. COORDINATE MOUNTING WITH ARCHITECTURAL DETAILS DURING SHOP DRAWING PHASE.

Q27 2" WIDE. 4" DEEP, PERIMETER SLOT LINEAR LED. 27FT LENGTH, FIELD MEASURE TOTAL LENGTH PRIOR TO ORDERING. STANDARD OUTPUT, 80 CRI, 3500K, LOW-GLOSS WHITE, 120V, SINGLE CIRCUIT, 0-10V 10%MIN DIMMING, END CAP, 3.5 WATT/FT.
FINELITE #HP 2 WS 4D XX S 835 96LG 120 SC FC-10%

Q21 SAME AS TYPE Q27 EXCEPT 21FT LENGTH. FIELD MEASURE TOTAL LENGTH PRIOR TO ORDERING.

V 4" VANDAL RESISTANT TUNABLE WHITE RECESSED DOWNLIGHT. IP66 AND IK10 RATED, TAMPER RESISTANT CEILING GRID MOUNTING, DIMMING TO <1%, 2000 LUMEN, 2700K-6500K TUNING RANGE, MEDIUM DISTRIBUTION, 28 WATT, 90CRI, 120 VOLT, CLEAR POLYCARBONATE LENS, WHITE ANTIMICROBIAL FINISH.
LUMINAIRE #VRDL4 GB DARK NLT 2000LM TUWH RHYR MD 90CRI 120 CPL AMF

V2 4" VANDAL RESISTANT DOWNLIGHT, 2000 LUMEN, 0-10V DIMMING, 120V LUMINAIRE #VRDL4 DARK ZT 2000LM WD 35K 80CRI 120 CPL AMF

AA2 WALL MOUNT LED LUMINARIE. TYPE 2 DISTRIBUTION, 4000K, 73 WATT, 208V, INTEGRATED MOTION/AMBIENT SENSOR. HOUSE-SIDE SHIELD. DARK BRONZE FINISH.
LITHONIA #DSXW1 LED 20C 1000 40K T2M PIR HS DDBXD

BBF WALL MOUNT LED SITE LUMINARIE. FORWARD THROW DISTRIBUTION, PERFORMANCE PACKAGE 7, 4000K, 70CRI, 120-277V, 188 WATT, INTEGRATED MOTION/AMBIENT SENSOR. HOUSE-SIDE SHIELD. DARK BRONZE FINISH.
LITHONIA #DSX1 LED P7 70CRI TFTM MVOLT WBA PIR HS DDBXD

BB2 SAME AS TYPE BBF EXCEPT TYPE 2 DISTRIBUTION.

BB3 SAME AS TYPE BBF EXCEPT TYPE 3M DISTRIBUTION.

CC POST-TOP LED RETROFIT WITH WIRELESS CONTROL.
LITHONIA #RADPT OR EQUAL

ELECTRICAL SYMBOLS

LIGHTING

- A — 2'x4' FIXTURE, TYPE INDICATED
- HALF SHADED FIXTURES ARE EMERGENCY FIXTURES
- A — 2'X2' FIXTURE, TYPE INDICATED
- A — 1'x4' LED FIXTURE, TYPE INDICATED
- A — 4' LED STRIP, TYPE INDICATED
- DOWNLIGHT OR SURFACE FIXTURE
- WALL MOUNTED FIXTURE, TYPE INDICATED
- A — WALL MOUNTED FIXTURE, TYPE INDICATED
- E — EXIT LIGHT
- E — MOUNTED EXIT LIGHT
- PENDANT MOUNTED FIXTURE, TYPE INDICATED
- TRACK LIGHTING FIXTURE
- EMERGENCY FIXTURE
- REMOTE HEAD EMERGENCY FIXTURE

LIGHTING CONTROLS

- S — SINGLE POLE SWITCH
- S_3 — 3-WAY SWITCH
- S_f — FUSED TOGGLE SWITCH
- S_{WP} — WEATHERPROOF SWITCH
- S_M — WALL MOTION SWITCH SENSOR
  ACUITY #WSX SERIES OR EQUAL
- S_{MD} — COMBINATION WALL MOTION, DIMMING SWITCH SENSOR
  ACUITY #WSX D SERIES OR EQUAL
- S_D — DIMMING SWITCH, 0-10 VOLT
  ACUITY #SPODMRA D SERIES OR EQUAL
- [S] — LOW VOLTAGE ON/OFF BUTTON SWITCH
  ACUITY #NPODMA SERIES OR EQUAL
- $[S]_D$ — LOW VOLTAGE ON/OFF, DIMMING.
  ACUITY #NPODMA DX SERIES OR EQUAL
- $[S]_M$ — LOW VOLTAGE ON/OFF WITH INTEGRATED IR MOTION SENSOR
  ACUITY #NWSX LV SERIES OR EQUAL
- $[S]_{MD}$ — LOW VOLTAGE ON/OFF, DIMMING WITH INTEGRATED IR MOTION SENSOR
  ACUITY #NWSX LV DX SERIES OR EQUAL
- $[S]_T$ — LOW VOLTAGE SWITCH. ON/OFF, RAISE/LOWER, CCT ADJUST
  ACUITY #NPODMA DX CCT WH
- $[S]_K$ — LOW VOLTAGE KEYED SWITCH. ON/OFF
  ACUITY #NPOD KEY MNTN WH
- $[S]_{KD}$ — LOW VOLTAGE KEYED SWITCH. ON/OFF, RAISE/LOWER.
  ACUITY #NPOD KEY WH
- S_X — WIRELESS LINE VOLTAGE POWERED SWITCH, ON/OFF
  ACUITY #RPODL MVOLT WH G2
- RC — ROOM CONTROLLER, 3-RELAYS, 0-10V DIMMING, PLENUM RATED
  COOPER GREENGATE #RC3D-PL OR EQUAL
- PR — POWER RELAY
- PR — POWER RELAY PACK
  ACUITY #NPP16 D SERIES OR EQUAL
- (120) — PASSIVE INFRARED, CEILING MOUNTED. LARGE-MOTION DETECTION, 2000 SQFT RADIAL COVERAGE SENSOR
  ACUITY #NCM 10 SERIES OR EQUAL
- (109) — PASSIVE INFRARED, CEILING MOUNTED, SMALL-MOTION DETECTION, 500 SQFT RADIAL COVERAGE SENSOR
  ACUITY #NCM 9 SERIES OR EQUAL
- (110) — PASSIVE INFRARED, CEILING MOUNTED, LARGE-MOTION DETECTION, HIGH MOUNT, 1000 SQFT RADIAL COVERAGE SENSOR
  ACUITY #NCM 6 SERIES OR EQUAL
- (DD) — DUAL TECH, CEILING MOUNTED, LARGE-MOTION DETECTION, 2000 SQFT RADIAL COVERAGE SENSOR
  ACUITY #NCM PDT 10 SERIES OR EQUAL
- (DD3) — DUAL TECH 360°, CEILING MOUNTED, SMALL-MOTION DETECTION, 500 SQFT RADIAL COVERAGE SENSOR
  ACUITY #NCM PDT 9 SERIES OR EQUAL
- (HW) — PASSIVE INFRARED HALLWAY MOTION SENSOR, 130' RANGE.
  ACUITY #HW13 SERIES OR EQUAL
- (XX)$_{XX}$ — WALL MOUNTED SENSOR
- (PS) — DAYLIGHT PHOTO SENSOR, CEILING MOUNTED, AUTO DIMMING
  ACUITY #NCM ADCX SERIES OR EQUAL
- (PC) — LOW VOLTAGE PHOTOCELL FOR CONNECTION TO LCP. ACUITY #NIO PC

POWER

- DUPLEX RECEPTACLE
- QUADPLEX RECEPTACLE
- SPECIAL RECEPTACLE
- GFCI RECEPTACLE
- GFI — FEED THROUGH GFCI DEVICE
- CIRCUIT BREAKER DISCONNECT
- DEVICE CONNECTION
- NON-FUSED DISCONNECT SWITCH
- FUSED DISCONNECT
- JB — JUNCTION BOX
- PP — POWER POLE FOR CUBICLE DESKS. POWER AND DATA
- FLUSH MOUNTED PANEL
- PANELBOARD
- SWITCHBOARD
- T — TRANSFORMER
- SINGLE PHASE MOTOR
- THREE PHASE MOTOR
- PUSH BUTTON STATION
- ADA — ADA PUSH BUTTON OPERATOR

ABBREVIATIONS

WP	DENOTES WEATHER PROOF
AFF	ABOVE FINISH FLOOR
AC	ABOVE COUNTER
EC	ELECTRICAL CONTRACTOR
EX	EXISTING
GFI	GROUND FAULT CIRCUIT INTERRUPTER
MDF	MAIN DATA FRAME
IDF	INTERMEDIATE DATA FRAME
WR	WEATHER RESISTANT
MDP	MAIN DISTRIBUTION PANEL
PP	POWER PANEL
LP	LIGHTING PANEL
RP	RECEPTACLE PANEL
UPS	UNINTERRUPTIBLE POWER SUPPLY
LCP	LIGHTING CONTROL PANEL
GND	GROUND
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUGS ONLY
CU	COPPER
AL	ALUMINUM
ATS	AUTOMATIC TRANSFER SWITCH
FAA	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
CP	CIRCULATION PUMP
ADA	AMERICANS WITH DISABILITIES ACT
VP	VANDAL PROOF

FIRE ALARM

- FACP — FIRE ALARM CONTROL PANEL
- TS — FIRE ALARM TAMPER SWITCH
- FS — FIRE ALARM FLOW SWITCH
- DSD — DUCT SMOKE DETECTOR
- F — VP — VANDAL PROOF FIRE ALARM PULL STATION
- S — SMOKE DETECTOR
- F — SMOKE DETECTOR STROBE ONLY
- F — C — CEILING MOUNTED FIRE ALARM STROBE ONLY
- F — C — CEILING MOUNTED FIRE ALARM VOICE EVAC/STROBE COMBO

COMMUNICATIONS

- HDMI OUTLET, 1 1/2" CONDUIT ROUTED TO ACCESSIBLE CEILING, (4) HDMI JACKS.
- (2) DATA PORT OUTLET ROUGH-IN, (2 CAT6), 1" CONDUIT ROUTED TO ACCESSIBLE CEILING
- TV — DATA/HDMI OUTLET (1 CAT6 / 1 HDMI). 1 1/4" CONDUIT ROUTED TO ACCESSIBLE CEILING
- DATA/HDMI OUTLET (2 CAT6 / 1 HDMI). 1 1/4" CONDUIT ROUTED TO ACCESSIBLE CEILING
- 1,3,4.. — INDICATED NUMBER OF DATA PORTS OUTLET ROUGH-IN, (INDICATED NUMBER OF CAT6), 1" CONDUIT ROUTED TO ACCESSIBLE CEILING
- CR — CARD READER ROUGH-IN, 1" CONDUIT ROUTED TO ACCESSIBLE CEILING
- CAM — SECURITY CAMERA ROUGH-IN, 1" CONDUIT ROUTED TO ACCESSIBLE CEILING
- WAP — WIRELESS ACCESS POINT (1) CAT6 WITH QUICKPORT AND 10FT MAINTENANCE LOOP
- S — SPEAKER
- C — CLOCK

ELECTRICAL SCHEDULES

- INV2 — 250 WATT MINI-INVERTER. 120/277V IN/OUT. 305 WATT INPUT RATED. SURFACE MOUNTED. DIMMING RELAY. UL 924 LISTED.
  IOTA #IIS 250 HE DR
- INV3 — 125 WATT MINI-INVERTER. 120V IN/OUT. 150 WATT INPUT RATED. SURFACE MOUNTED. DIMMING RELAY. UL 924 LISTED.
  IOTA #IIS 125 SM DR
- FB — 6" ROUND POKE-THROUGH FLOOR BOX. (2) DUPLEX RECEPTACLES, (1) HDMI PORT, (2) DATA JACKS. 1 1/4" CONDUIT CONNECTION FOR HDMI/DATA.
  LEGRAND #6ATC2PAA - 6MAAP2A-1125CHA, HDMI - #AV3000BK

NO.	REVISION	DATE
1	ADDENDUM 1	08/31/23
	ISSUE FOR BID	08/23/23

KEY PLAN
NORTH NO SCALE

WTAARCH.COM
WTA ARCHITECTS
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PROJECT TITLE
ADDITION AND RENOVATION:
MIDLAND COUNTY ESA
MIDLAND, MICHIGAN

SHEET TITLE
SCHEDULES AMD SYMBOLS

PROJECT NUMBER	SHEET NUMBER
2022006.1	E4.01
PROJECT DATE: AUGUST 23, 2023	
CHECKED BY: JWF	

REVISED
PNL LP2

MAIN: SIZE & TYPE: 225 A
BUS RATING: 225 A
VOLTAGE: 120 / 208 V 1 Ø, 3 WIRE
MOUNTING: Surface
PANEL LOCATION: BOILER RM
FEEDER SIZE: 150A
FED FROM: DP-1
MIN RMS AMPS: 10KA

	CKT #	CIRCUIT DESCRIPTION	LOAD (kVA)			AMPS / POLES	CKT #	LOAD TYPE		CKT #	AMPS / POLES	LOAD (kVA)			CIRCUIT DESCRIPTION	CKT #
			A		C							A		C		
2	1	PNL LP-EM	1.500			100/	1	O	O	2	20/1	0.180			SUMP PLUG	2
2	3	PNL LP-EM			0.800	2P	3	O		4					BLANK	4
	5	SPARE					5		L	6	20/1	0.300			BOILER RM LIGHTS	6
	7	SPARE				20	7		O	8	20/1			0.500	BOILER #1	8
	9	SPARE				/	9			10	20				SPARE	10
	11	SPARE				3	11			12	/				SPARE	12
	13	PLUG UNDER PANEL 110V	0.180			30/	13	R		14	3				SPARE	14
	15	PLUG UNDER PANEL 110V			0.180	2	15	R		16					BLANK	16
1	17	EXT. SITE LIGHTING				20/	17	L		18	20/1				SPARE	18
1	19	EXT. SITE LIGHTING				2	19	L		20	20/1				SPARE	20
	21						21			22	20/1				SPARE	22
1	23	ACC-1 MDF ROOM			1.000	20/	23	H	R	24	20/1			0.180	ALT POWER	24
1	25	ACC-1 MDF ROOM	1.000			2	25	H	O	26	?/	2.000			RANGE IN TEACHERS LOUNGE	26
	27	BLANK					27		O	28	2			2.000	RANGE IN TEACHERS LOUNGE	28
	29	ROOFTOP RECP	0.540			20/1	29	R	H	30	?	0.500			BOILER #1	30
	31	UNDERSINK EWH-2			3.000	40/1	31	O	H	32	/			0.500	BOILER #1	32
	33	SPARE				20/1	33		H	34	3	0.500			BOILER #1	34
	35	BOILER #2			0.400	20/1	35	O	R	36	50/			0.180	UNKNOWN LOAD	36
	37	EXHAUST FAN TEACHERS LOUNGE	0.050			20/1	37	O	R	38	2	0.180			UNKNOWN LOAD	38
	39	EXISTING LOAD			0.180	20/1	39	O		40					BLANK	40
	41	BLANK					41		R	42	20/1	0.180			AC SERVICE OUTLET	42

LOAD SUMMARY		KVA CONNECTED A	B	C	KVA SUMMARY TOTAL		DEMAND	
RECEPTACLES	R	1.080	0.000	0.540	1.620		1.620	
LIGHTING	L	0.300	0.000	0.000	0.300	1.000	0.300	
HVAC	H	2.000	0.000	1.500	3.500	0.900	3.150	
OTHER	O	3.730	0.000	6.880	10.610	1.000	10.610	
EXISTING	E	0.000	0.000	0.000	0.000	1.000	0.000	
TOTAL KVA		7.110	0.000	8.920	16.030		15.680	TOTAL ESTIMATE KVA
VOLTS / PHASE		120	120	120	208		208	SYSTEM VOLTAGE
AMPS / PHASE		59.250	0.000	74.333	44.496		43.525	AMPS

NOTES:
1. MODIFY AND EXTEND EXISTING CIRCUIT TO FEED NEW SITE LIGHTS. FURNISH AND INSTALL NEW 20A/2P BREAKER.
2. FURNISH AND INSTALL 100A/2P BREAKER TO FEED PANEL LP-EM
3. FURNISH AND INSTALL NEW CIRCUIT BREAKERS TO FEED NEW LOADS AS REQUIRED.

REVISED
PNL LP3

MAIN: SIZE & TYPE: 225 A MCB
BUS RATING: 225 A
VOLTAGE: 120 / 208 V 1 Ø, 3 WIRE
MOUNTING: SURFACE
PANEL LOCATION: MAINTENANCE RM
FEEDER SIZE:
FED FROM: DP-1
MIN RMS AMPS: 10KAIC

	CKT #	CIRCUIT DESCRIPTION	LOAD (kVA)			AMPS / POLES	CKT #	LOAD TYPE		CKT #	AMPS / POLES	LOAD (kVA)			CIRCUIT DESCRIPTION	CKT #
			A		C							A		C		
	1	IT SUITE ABOVE COUNTER REC	0.540			20/1	1	R	R	2	20/1	0.360			MOTHER'S RM REC	2
	3	IT SUITE OFFICE 3A REC			0.360	20/1	3	R	R	4	20/1			0.180	LOUNGE ABOVE COUNTER REC	4
	5	MAKERSPACE ABOVE COUNTER REC	0.180			20/1	5	R	R	6	20/1	0.180			LOUNGE ABOVE COUNTER REC	6
	7	COMPUTER			0.180	20/1	7	R	R	8	20/1			0.180	LOUNGE ABOVE COUNTER REC	8
	9	COMPUTER	0.180			20/1	9	R	R	10	20/1	0.180			LOUNGE REC	10
	11	COMPUTER			0.180	20/1	11	R	R	12	20/1			0.180	MDF ROOM WALL REC	12
	13	TLT RM 007 LV XMFR (JANITOR'S	0.050			20/1	13	O	R	14	20/1				RECP FAN RM #6A&B	14
	15	TLT RM 011 LV XMFR (JANITOR'S			0.050	20/1	15	O	R	16	20/1			0.540	WIRE MOLD EAST WALL #7	16
	17	RECP & FAN 2A&B	0.200			20/1	17	R	L	18	20/1	0.500			CORRIDOR LIGHTING	18
	19	MAKERSPACE ABOVE COUNTER REC			0.180	20/1	19	R	R	20	20/1			0.180	RECPTIONIST RECP EAST WALL	20
	21	MAKERSPACE ABOVE COUNTER REC	0.360			20/1	21	R	R	22	20/1	0.360			MDF ROOM CEILING REC	22
	23	EAST WALL RECP RM #3			0.180	20/1	23	R	R	24	20/1			0.360	MDF ROOM CEILING REC	24
	25	MAKERSPACE MARKERBOARDS	0.360			20/1	25	R	R	26	20/1	0.180			RECP	26
	27	MAKERSPACE TV REC			0.360	20/1	27	R	R	28	20/1			0.180	NORTH ROOM RECP	28
	29	NORTH SIDE LIGHTING	1.200			20/1	29	L	R	30	20/1	0.180			NORTH ROOM RECP	30
	31	SOUTH SIDE LIGHTING			1.200	20/1	31	L	O	32	30/			2.250	JANITOR RM EWH-1	32
	33	EAST&WEST WALL RECP #4	0.180			20/1	33	R	O	34	2P	2.250			JANITOR RM EWH-1	34
	35	FANS IN HAPPY DAYS			0.180	20/1	35	R	R	36	20/1			0.500	KITCHEN IN HAPPY DAYS	36
	37	COMPUTER LAB4 SURGE SUPP	0.180			20/1	37	R	R	38	20/1	0.180			COMPUTER LAB 2 SURGE	38
	39	COMP LAB 3 RECP CIRCUIT			0.180	20/1	39	R	R	40	20/1			0.180	COMPUTER LAB 1 LIGHTING	40
1	41	TV TRAINING ROOM	0.360			20/1	41	R	R	42						42

LOAD SUMMARY		KVA CONNECTED A	B	C	KVA SUMMARY TOTAL		DEMAND	
RECEPTACLES	R	4.160	0.000	4.280	8.440		8.440	
LIGHTING	L	1.700	0.000	1.200	2.900	1.000	2.900	
HVAC	H	0.000	0.000	0.000	0.000	0.900	0.000	
OTHER	O	2.300	0.000	2.300	4.600	1.000	4.600	
EXISTING	E	0.000	0.000	0.000	0.000	1.000	0.000	
TOTAL KVA		8.160	0.000	7.780	15.940		15.940	TOTAL ESTIMATE KVA
VOLTS / PHASE		120	120	120	208		208	SYSTEM VOLTAGE
AMPS / PHASE		68.000	0.000	64.833	44.246		44.246	AMPS

NOTES:
1. FURNISH AND INSTALL NEW CIRCUIT BREAKERS TO FEED NEW LOADS AS REQUIRED.

REVISED
PNL LP5

MAIN: SIZE & TYPE: 225 A MLO
BUS RATING: 225 A
VOLTAGE: 120 / 208 V 1 Ø, 3 WIRE
MOUNTING: Surface
PANEL LOCATION: STORAGE ROOM
FEEDER SIZE: 200A
FED FROM: DP-2
MIN RMS AMPS: 10KA

CKT #	CIRCUIT DESCRIPTION	LOAD (kVA)			AMPS / POLES	CKT #	LOAD TYPE		CKT #	AMPS / POLES	LOAD (kVA)			CIRCUIT DESCRIPTION	CKT #
		A		C							A		C		
1	BATH LTS STORAGE RM	0.300			20/1	1	L	L	2	20/1	0.540			LOCKER RM LTS. LOUNGE N RECPT. SE	2
3	RECPT			0.540	20/1	3	R	R	4	20/1			0.540	E GYM RECPT	4
5	NORTH RECP. RM 103	0.540			20/1	5	R	H	6	20/1	1.000			GYM UNIT HEATER ELEVATED	6
7	DEPARTMENT PLUGS			0.540	20/1	7	R	R	8	20/1			0.200	GYM STORAGE #1	8
9	LEFT GYM HEATER	1.000			20/1	9	H	H	10	20/1	1.000			RIGHT GYM HEATER	10
11	EF-3 & WATER HEATER REC			0.200	20/1	11	R		12	20/1				SPARE	12
13	SPARE				20/1	13			14	20/1				SPARE	14
15	GYM STORAGE RM. #2			0.360	20/1	15	R		16	20/1				DEMO	16
17	GYM WEST RECPT	0.540			20/1	17	R	R	18	20/1	0.900			GYM N RECPT. W OUTSIDE LTS	18
19	RECPT			0.540	20/1	19	R	R	20	20/1			0.900	GYM SW RECPT	20
21	GYM NW LIGHTS	0.630			20/1	21	L	L	22	20/1	0.630			GYM SW LIGHTS	22
23	GYM NE LIGHTS			0.630	20/1	23	L	L	24	20/1			0.630	GYM SE LIGHTS	24
25	CONFERENCE RM S RECPT	0.540			20/1	25	R	O	26	50	0.180			EXISTING LOAD	26
27	SPARE				20/1	27		O	28	/2			0.180	EXISTING LOAD	28
29	SPARE				20/1	29			30	20/1				SPARE	30
31	SPARE				20/1	31			32	20/1				SPARE	32
33	SPARE				20/1	33		O	34	20/1	0.100			PULL DOWN CURTAIN?	34
35	JOHNSON CONTROL PANEL			0.100	20/1	35	O		36	20/1				SPARE	36
37	BIG FANS	0.500			20/1	37	H		38	20/1				SPARE	38
39	SPARE				50	39		O	40	20/1			0.180	EXISTING LOAD	40
41	SPARE				/2	41		O	42	20/1	0.180			EXISTING LOAD	42

LOAD SUMMARY		KVA CONNECTED A		C	KVA SUMMARY TOTAL		DEMAND	
RECEPTACLES	R	2.520		3.820	6.340		6.340	
LIGHTING	L	2.100		1.260	3.360	1.000	3.360	
HVAC	H	3.500		0.000	3.500	0.900	3.150	
OTHER	O	0.460		0.460	0.920	1.000	0.920	
EXISTING	E	0.000		0.000	0.000	1.000	0.000	
TOTAL KVA		8.580		5.540	14.120		13.770	TOTAL ESTIMATE KVA
VOLTS / PHASE		120		120	208		208	SYSTEM VOLTAGE
AMPS / PHASE		71.500		46.167	67.885		66.202	AMPS

NOTES:
1. THIS PANEL SCHEDULE IS BASED ON THE EXISTING PANEL SCHEDULE. FIELD TRACE AND VERIFY ALL EXISTING LOADS. AFTER FIELD TRACING, ACCURATELY LABEL EXISTING LOADS UNAFFECTED BY DEMOLITION ON NEW PANEL SCHEDULE.
2. FURNISH AND INSTALL NEW CIRCUIT BREAKERS TO FEED NEW LOADS AS REQUIRED.

REVISED
PNL LP6

MAIN: SIZE & TYPE: 225 A MLO
BUS RATING: 225 A
VOLTAGE: 120 / 208 V 1 Ø, 3 WIRE
MOUNTING: SURFACE
PANEL LOCATION: JANITOR'S CLOSET
FEEDER SIZE: 200A
FED FROM: DP-2
MIN RMS AMPS: 10KA

CKT #	CIRCUIT DESCRIPTION	LOAD (KVA)			AMPS / POLES	CKT #	LOAD TYPE		CKT #	AMPS / POLES	LOAD (KVA)			CIRCUIT DESCRIPTION	CKT #
		A	B	C							A	B	C		
1	CORRIDOR LIGHTING	1.343			20/1	1	L	R	2	20/1	0.540			BEHAVIOR OFFICE POWER POLE 1	2
3	CONF/STG/OFFICE LIGHTING			1.232	20/1	3	L	R	4	20/1			0.540	BEHAVIOR OFFICE POWER POLE 1	4
5	PHYS THERAPY, TLT, LOUNGE, PERIM. LT	1.324			20/1	5	L	R	6	20/1	0.540			BEHAVIOR OFFICE POWER POLE 2	6
7	BH OFFICE, STORAGE, TLT, STAIR LTS			1.218	20/1	7	L	R	8	20/1			0.540	BEHAVIOR OFFICE POWER POLE 2	8
9	EXHAUST FAN 4	0.075			20/1	9	H	R	10	20/1	0.500			BEHAVIOR OFFICE COPIER REC	10
11	WATER HEATER REC.			0.180	20/1	11	R	R	12	20/1			0.360	BEHAVIOR OFFICE CONV. REC	12
13	EXHAUST FAN 5	0.135			20/1	13	H	R	14	20/1	0.360			BEHAVIOR OFFICE 318A REC	14
15	PT/OT OFFICE 319A REC			0.360	20/1	15	R	R	16	20/1			0.180	TLT RM 316 REC.	16
17	MENS TLT RM REC	0.180			20/1	17	R	R	18	20/1	0.900			STORAGE ROOMS REC.	18
19	STAFF LOUNGE MICROWAVE REC			0.180	20/1	19	R	R	20	20/1			1.080	CORRIDOR REC.	20
21	STAFF LOUNGE MICROWAVE REC	0.180			20/1	21	R	R	22	20/1	0.360			S. STAIRWELL REC. / WC REC	22
23	STAFF LOUNGE ABOVE COUNTER REC			0.180	20/1	23	R	R	24	20/1			0.540	PT/OT OFFICE POWER POLE 1	24
25	STAFF LOUNGE ABOVE COUNTER REC	0.180			20/1	25	R	R	26	20/1	0.540			PT/OT OFFICE POWER POLE 1	26
27	STAFF LOUNGE FRIDGE REC			0.500	20/1	27	R	R	28	20/1			0.540	PT/OT OFFICE POWER POLE 2	28
29	STAFF LOUNGE CONV. REC	0.360			20/1	29	R	R	30	20/1	0.540			PT/OT OFFICE POWER POLE 2	30
31	SPEECH PATH. POWER POLE 1			0.540	20/1	31	R	R	32	20/1			0.540	PT/OT OFFICE POWER POLE 3	32
33	SPEECH PATH. POWER POLE 1	0.540			20/1	33	R	R	34	20/1	0.540			PT/OT OFFICE POWER POLE 3	34
35	SPEECH PATH. POWER POLE 2			0.540	20/1	35	R	R	36	20/1			0.720	PT/OT OFFICE CONV. REC.	36
37	SPEECH PATH. POWER POLE 2	0.540			20/1	37	R	R	38	20/1	0.540			PT/OT OFFICE CONV. REC.	38
39	LP-6A			4.260	100/	39	R	R	40	20/1			0.500	PT/OT OFFICE COPIER REC.	40
41	LP-6A	4.260			2P	41	R	R	42	20/1	0.360			PT/OT OFFICE 319B REC	42

LOAD SUMMARY		KVA CONNECTED A		C	KVA SUMMARY TOTAL		DEMAND	
RECEPTACLES	R	11.960		12.280	24.240		17.120	
LIGHTING	L	2.667		2.450	5.118	1.000	5.118	
HVAC	H	0.210		0.000	0.210	0.900	0.189	
OTHER	O	0.000		0.000	0.000	1.000	0.000	
EXISTING	E	0.000		0.000	0.000	1.000	0.000	
TOTAL KVA		14.837		14.730	29.568		22.427	TOTAL ESTIMATE KVA
VOLTS / PHASE		120		120	208		208	SYSTEM VOLTAGE
AMPS / PHASE		123.644		122.753	142.152		107.821	AMPS

NOTES:

NEW
PNL LP6A

MAIN: SIZE & TYPE: 100 A MLO
BUS RATING: 100 A
VOLTAGE: 120 / 208 V 1 Ø, 3 WIRE
MOUNTING: SURFACE
PANEL LOCATION: JANITOR'S CLOSET
FEEDER SIZE: 100A
FED FROM: LP-6
MIN RMS AMPS: 10KA

CKT #	CIRCUIT DESCRIPTION	LOAD (KVA)			AMPS / POLES	CKT #	LOAD TYPE		CKT #	AMPS / POLES	LOAD (KVA)			CIRCUIT DESCRIPTION	CKT #
		A	B	C							A	B	C		
1	SPEECH PATH. W. WALL REC	0.540			20/1	1	R	R	2	20/1	0.720			TEACHER CONSULTANT CONV REC	2
3	SPEECH PATH. CONV. REC			0.540	20/1	3	R	R	4	20/1			0.540	TEACHER CONSULTANT POWER POLE 1	4
5	SPEECH PATH. COPIER REC	0.500			20/1	5	R	R	6	20/1	0.540			TEACHER CONSULTANT POWER POLE 1	6
7	SPPECH PATH. OFFICE 313A REC			0.540	20/1	7	R	R	8	20/1			0.540	TEACHER CONSULTANT POWER POLE 2	8
9	CONF RM 300B REC	1.080			20/1	9	R	R	10	20/1	0.540			TEACHER CONSULTANT POWER POLE 2	10
11	CONF RM 300A REC			0.900	20/1	11	R	R	12	20/1			0.180	TEACHER CONSULTANT COPIER REC.	12
13	LOBBY 300 DOOR OP & REC	0.100			20/1	13	O	R	14	20/1	0.540			TEACHER CONSULTANT 311A REC	14
15	ELEV. HALL, STORAGE, STAIR REC			0.540	20/1	15	R	R	16	20/1			0.180	WATER COOLER REC	16
17	TLT RM XMFRS	0.100			20/1	17			18	20/1					18
19					20/1	19			20	20/1					20
21					20/1	21			22	20/1					22
23					20/1	23			24	20/1					24
25					20/1	25			26	20/1					26
27					20/1	27			28	20/1					28
29					20/1	29			30	20/1					30
31					20/1	31			32	20/1					32
33					20/1	33			34	20/1					34
35					20/1	35			36	20/1					36
37					20/1	37			38	20/1					38
39					20/1	39			40	20/1					40
41					20/1	41			42	20/1					42

LOAD SUMMARY		KVA CONNECTED A		C	KVA SUMMARY TOTAL		DEMAND	
RECEPTACLES	R	4.460		3.960	8.420		8.420	
LIGHTING	L	0.000		0.000	0.000	1.000	0.000	
HVAC	H	0.000		0.000	0.000	0.900	0.000	
OTHER	O	0.100		0.000	0.100	1.000	0.100	
EXISTING	E	0.000		0.000	0.000	1.000	0.000	
TOTAL KVA		4.560		3.960	8.520		8.520	TOTAL ESTIMATE KVA
VOLTS / PHASE		120		120	208		208	SYSTEM VOLTAGE
AMPS / PHASE		38.000		33.000	40.962		40.962	AMPS

NOTES:

REVISED
PNL LP-EM

MAIN: SIZE & TYPE: 100 A MCB
BUS RATING: 100 A
VOLTAGE: 120 / 208 V 1 Ø, 3 WIRE
MOUNTING: SURFACE
PANEL LOCATION: BOILER RM
FEEDER SIZE:
FED FROM: LP-2
MIN RMS AMPS:

CKT #	CIRCUIT DESCRIPTION	LOAD (kVA)			AMPS / POLES	CKT #	LOAD TYPE		CKT #	AMPS / POLES	LOAD (kVA)			CIRCUIT DESCRIPTION	CKT #
		A		C							A		C		
1	EXIT LIGHTS	0.300			20/1	1	L	O	2	20/1	0.100			FIRE ALARM	2
3	WALL PACKS			0.200	20/1	3	L	O	4	20/1			0.100	FIRE ALARM	4
5	EXISTING LOAD	0.500			20/1	5	O	O	6	20/1	0.100			SIMENS TEMP CONTROLS	6
7	GARAGE			0.500	30/	7	O		8	20/1				SPARE	8
9	GARAGE	0.500			2	9	O		10	30/				SPARE	10
11	BLANK					11			12	2				SPARE	12

LOAD SUMMARY		KVA CONNECTED A		C	KVA SUMMARY TOTAL		DEMAND	
RECEPTACLES	R	0.000		0.000	0.000		0.000	
LIGHTING	L	0.300		0.200	0.500	1.000	0.500	
HVAC	H	0.000		0.000	0.000	0.900	0.000	
OTHER	O	1.200		0.600	1.800	1.000	1.800	
EXISTING	E	0.000		0.000	0.000	1.000	0.000	
TOTAL KVA		1.500		0.800	2.300		2.300	TOTAL ESTIMATE KVA
VOLTS / PHASE		120		120	208		208	SYSTEM VOLTAGE
AMPS / PHASE		12.500		6.667	11.058		11.058	AMPS

NOTES:

NEW
PNL RP1B

MAIN: SIZE & TYPE: 200 A MCB
BUS RATING: 225 A
VOLTAGE: 120 / 208 V 3 Ø, 4 WIRE
MOUNTING:
PANEL LOCATION:
FEEDER SIZE: 200A
FED FROM: MDP
MIN RMS AMPS: 14KAIC

CKT #	CIRCUIT DESCRIPTION	LOAD (KVA)			AMPS / POLES	CKT #	LOAD TYPE		CKT #	AMPS / POLES	LOAD (KVA)			CIRCUIT DESCRIPTION	CKT #
		A	B	C							A	B	C		
1	SECURE ENTRANCE LIGHTS	1.152			20/1	1	L	R	2	20/1	0.360			RECEPTION OFFICE REC	2
3	IDF		0.250		20/1	3	R	R	4	20/1		0.900		WAITING AREA REC	4
5	IDF			0.250	20/1	5	R	R	6	20/1			0.540	SECURE VEST. & LOBBY REC	6
7	CORRIDOR 104 LIGHTS	1.036			20/1	7	L	R	8	20/1	0.540			LOBBY REC	8
9	CLSRM 114,116, SENSORY, LOCKER LTS		1.387		20/1	9	L	R	10	20/1		0.540		CLINIC REC	10
11	CLSRM 115, 113, TLT LTS			0.946	20/1	11	L	R	12	20/1			0.180	CLINIC TLT REC	12
13	LIFE SKILLS, SIM, PAES LTS	0.738			20/1	13	L	R	14	20/1	0.540			NURSE OFFICE REC	14
15	LIFE SKILLS DRYER		1.400		30/	15	R	R	16	20/1		0.900		PAES ROOM REC.	16
17	LIFE SKILLS DRYER			1.400	2P	17	R	R	18	20/1			0.360	CLINIC FRIDGE & COUNTER REC	18
19	LIFE SKILLS WASHER	0.500			20/1	19	R	R	20	20/1	0.900			SIMULATION RM REC	20
21	FIRE ALARM CP AND ANNUNCIATOR		0.050		20/1	21	O	R	22	20/1		0.180		LIFE SKILLS FRIDGE	22
23	SECURE VESTIBULE DOOR OP.			0.250	20/1	23	O	R	24	20/1			0.180	LIFE SKILLS ABOVE COUNTER REC	24
25	WAITING AREA DOOR OP.	0.100			20/1	25	O	R	26	20/1	0.180			LIFE SKILLS ABOVE COUNTER REC	26
27	CIRCULATION 103 DOOR OP.		0.050		20/1	27	O	R	28	20/1		0.540		LIFE SKILLS TV, CONV. REC	28
29	EAST ENTRANCE DOOR OP.			0.100	20/1	29	O	R	30	20/1			0.720	CIRCULATION 103 REC	30
31	COURTYARD ENTRANCE DOOR OP.	0.100			20/1	31	O	R	32	20/1	0.720			SENSORY HALL & CONF. RM REC	32
33	LIFE SKILLS STOVE REC		2.750		30/	33	R	R	34	20/1		0.540		CONFERENCE 119 REC	34
35	LIFE SKILLS STOVE REC			2.750	2P	35	R	R	36	20/1			0.360	TOILET RM 104C ABOVE COUNTER REC	36
37	LIFE SKILLS COUNTER REC	0.180			20/1	37	R	R	38	20/1	0.540			JANITOR 104G & TLT CONV. REC	38
39	CLSRM 113 CHARGE STATION REC		0.180		20/1	39	R	R	40	20/1		0.180		CLASSROOM 113 ABOVE COUNTER REC	40
41	CLSRM 115 CHARGE STATION REC			0.180	20/1	41	R	R	42	20/1			0.720	CLSRM 113 TEACHING WALL REC	42

LOAD SUMMARY		KVA CONNECTED A	B	C	KVA SUMMARY TOTAL		DEMAND	
RECEPTACLES	R	4.460	8.360	7.640	20.460		15.230	
LIGHTING	L	2.926	1.387	0.946	5.259	1.000	5.259	
HVAC	H	0.000	0.000	0.000	0.000	0.950	0.000	
OTHER	O	0.200	0.100	0.350	0.650	1.000	0.650	
EXISTING	E	0.000	0.000	0.000	0.000	1.000	0.000	
TOTAL KVA		7.586	9.847	8.936	26.369		21.139	TOTAL ESTIMATE KVA
VOLTS / PHASE		120	120	120	208		208	SYSTEM VOLTAGE
AMPS / PHASE		63.214	82.056	74.470	73.195		58.677	AMPS

NOTES:
1. PANEL SHALL HAVE FACTORY INSTALLED FEED-THRU LUG KIT

NEW
PNL RP1B SUB

MAIN: SIZE & TYPE: 200 A MLO
BUS RATING: 225 A
VOLTAGE: 120 / 208 V 3 Ø, 4 WIRE
MOUNTING:
PANEL LOCATION:
FEEDER SIZE: 200A
FED FROM: RP1B FEED-THRU I
MIN RMS AMPS: 14KAIC

CKT #	CIRCUIT DESCRIPTION	LOAD (KVA)			AMPS / POLES	CKT #	LOAD TYPE		CKT #	AMPS / POLES	LOAD (KVA)			CIRCUIT DESCRIPTION	CKT #
		A	B	C							A	B	C		
43	CLSRM 114 CHARGE STATION RE	0.180			20/1	43	R	R	44	20/1	0.540			CLSRM 113 FURNITURE BASE FEED	44
45	CLSRM 116 CHARGE STATION RE		0.180		20/1	45	R	R	46	20/1		0.180		CLSRM 115 ABOVE COUNTER REC	46
47	SPARE				20/1	47		R	48	20/1			0.720	CLSRM 115 TEACHING WALL REC	48
49	EXHAUST FAN 2	0.061			20/1	49	H	R	50	20/1	0.540			CLSRM 115 FURNITURE BASE FEED	50
51	OTHER ENTRANCES CANOPY LTS		0.075		20/1	51	L	R	52	20/1		0.720		CLSRM 116 TEACHING WALL REC	52
53	INVERTERS IN IDF RM			0.300	20/1	53	L	R	54	20/1			0.180	CLSRM 116 COUNTER REC	54
55	TLT RM 104C XMFR (JANITOR'S CLOSET)	0.100			20/1	55	O	R	56	20/1	0.540			CLSRM 116 EXT. WALL REC	56
57	TLT RM 104D XMFR (JANITOR'S CLOSET)		0.100		20/1	57	O	R	58	20/1		0.540		CLSRM 116 FURNITURE BASE FEED	58
59	TOILET RM 104D ABOVE COUNTER REC			0.360	20/1	59	R	R	60	20/1			0.720	CLSRM 114 TEACHING WALL REC	60
61	CABINET HEATER AT MAIN ENTRANCE	0.050			20/1	61	H	R	62	20/1	0.180			CLSRM 114 COUNTER REC	62
63	LIFE SKILLS ISLAND STOVETOP		2.250		20/1	63	R	R	64	20/1		0.540		CLSRM 114 EXT. WALL REC	64
65	LIFE SKILLS ISLAND STOVETOP			2.250	20/1	65	R	R	66	20/1			0.540	CLSRM 114 FURNITURE BASE FEED REC	66
67	LIFE SKILLS DOWNDRAFT	0.180			20/1	67	R	R	68	20/1	0.540			WEST CORRIDOR/VEST. REC	68
69	LIFE SKILLS KITCHEN EQUIP		0.180		20/1	69	R	H	70	20A		1.000		ACC-1	70
71	SPARE				20/1	71		H	72	2P			1.000	ACC-1	72
73	SPARE				20/1	73			74	20/1				SPARE	74
75	SPARE				20/1	75			76	20/1				SPARE	76
77	SPARE				20/1	77			78	20/1				SPARE	78
79	SPARE				20/1	79			80	20/1				SPARE	80
81	SPARE				20/1	81			82	20/1				SPARE	82
83	SPARE				20/1	83			84	20/1				SPARE	84

LOAD SUMMARY		KVA CONNECTED A	B	C	KVA SUMMARY TOTAL		DEMAND	
RECEPTACLES	R	2.700	4.590	4.770	12.060		11.030	
LIGHTING	L	0.000	0.075	0.300	0.375	1.000	0.375	
HVAC	H	0.111	1.000	1.000	2.111	0.950	2.005	
OTHER	O	0.100	0.100	0.000	0.200	1.000	0.200	
EXISTING	E	0.000	0.000	0.000	0.000	1.000	0.000	
TOTAL KVA		2.911	5.765	6.070	14.746		13.610	TOTAL ESTIMATE KVA
VOLTS / PHASE		120	120	120	208		208	SYSTEM VOLTAGE
AMPS / PHASE		24.258	48.042	50.583	40.932		37.780	AMPS

NOTES:

NEW
PNL RP1C

MAIN: SIZE & TYPE: 200 A
BUS RATING: 225 A
VOLTAGE: 120 / 208 V 3 Ø, 4 WIRE
MOUNTING: SURFACE
PANEL LOCATION: ADDITION AREA C JANITORS
FEEDER SIZE: SEE ONELINE
FED FROM: MDP
MIN RMS AMPS: 14KAIC

CKT #	CIRCUIT DESCRIPTION	LOAD (kVA)			AMPS / POLES	CKT #	LOAD TYPE		CKT #	AMPS / POLES	LOAD (kVA)			CIRCUIT DESCRIPTION	CKT #
		A		C							A		C		
1	CLASS RM 145,141,139,135 LTS	1.683			20/1	1	L	R	2	20/1	0.540			CLASSRM 145 SW WALL REC	2
3	CLASS 133, HIVE, MAT RM LTS		1.500		20/1	3	L	R	4	20/1		0.540		CLASSRM 145 NE WALL REC	4
5	BATH, EXER & QUIET RM LTS			1.500	20/1	5	L	R	6	20/1			0.540	CLASSRM 145 TV & W REC	6
7	CORRIDOR LTS	0.850			20/1	7	L	R	8	20/1	0.540			CLASSRM 141 TV & W REC	8
9	CLASSRM 141 S WALL REC		0.540		20/1	9	R	R	10	20/1		0.540		CLASSRM 141 NE WALL REC	10
11	CLASSRM 139 TV & W REC			0.540	20/1	11	R	R	12	20/1			0.540	CLASSRM 139 NE WALL REC	12
13	CLASSRM 139 E&S WALL REC	0.540			20/1	13	R	R	14	20/1	0.540			CLASSRM 135 TV & W REC	14
15	CLASSRM N WALL REC		0.540		20/1	15	R	R	16	20/1		0.540		CLASSRM 135 SE WALL REC	16
17	HIVE GENERAL RECPTS			1.080	20/1	17	R	R	18	20/1			0.180	IDF	18
19	CHANGE RMS & STAFF TLT REC	0.900			20/1	19	R	R	20	20/1	0.180			IDF	20
21	EXERCISE RM RECPTS		1.080		20/1	21	R	R	22	20/1		0.720		NE CLASSRM RECPTS	22
23	JANITORS CLOSET RECPT			0.180	20/1	23	R	R	24	20/1			0.720	BATHROOM RECPTS	24
25	QUIET RM CORRIDOR REC	0.360			20/1	25	R	R	26	20/1	0.720			NE CLASSRM RECPTS	26
27	MAIN CORRIDOR REC		1.080		20/1	27	R	R	28	20/1		0.540		VESTIBULE 106 & STAIR REC	28
29	CONF. RM 143 REC			0.360	20/1	29	R	R	30	20/1			0.720	CONF. RM 137 RECPTS	30
31	CLASSRM 133 N&E REC	0.540			20/1	31	R	R	32	20/1	0.360			CLASSRM 133 S. REC	32
33	CLASSRM 133 TV & W REC		0.540		20/1	33	R	R	34	20/1		1.080		MAT ROOM 130 REC	34
35	WATER FOUNTAIN			0.180	20/1	35	R	R	36	20/1			0.180	KITCHEN EQUIP	36
37	CH-1	0.050			20/1	37	H	R	38	20/1	0.180			KITCHEN EQUIP	38
39	CH-2		0.050		20/1	39	H	R	40	20/1		0.180		KITCHEN EQUIP	40
41	EF-6			0.073	20/1	41	H	R	42	20/1			0.180	KITCHEN EQUIP	42
43	TLT RM ABOVE COUNTER REC	0.180			20/1	43	R	R	44	20/1	0.180			WASHER	44
45	TLT RM ABOVE COUNTER REC		0.180		20/1	45	R	R	46	30/		2.150		DRYER	46
47	KITCHEN ISLAND REC			0.360	20/1	47	R	R	48	2			2.150	DRYER	48
49	EXTERIOR LIGHTS	0.256			20/	49	L	O	50	20/1	0.050			TLT RM LOW VOLTAGE XMFR	50
51	EXTERIOR LIGHTS		0.256		2P	51	L	O	52	60/		0.000		RP1C-A SUBPANEL	52
53	KITCHEN EQUIP			0.180	20/1	53	R	O	54	2P			0.000	RP1C-A SUBPANEL	54

LOAD SUMMARY		KVA CONNECTED A	B	C	KVA SUMMARY TOTAL		DEMAND	
RECEPTACLES	R	5.760	10.250	8.090	24.100		17.050	
LIGHTING	L	2.789	1.756	1.500	6.045	1.000	6.045	
HVAC	H	0.050	0.050	0.073	0.173	0.950	0.164	
OTHER	O	0.050	0.000	0.000	0.050	1.000	0.050	
EXISTING	E	0.000	0.000	0.000	0.000	1.000	0.000	
TOTAL KVA		8.649	12.056	9.663	30.367		23.309	TOTAL ESTIMATE KVA
VOLTS / PHASE		120	120	120	208		208	SYSTEM VOLTAGE
AMPS / PHASE		72.073	100.467	80.521	84.293		64.700	AMPS

NOTES:

NEW
PNL RP1C-A

MAIN: SIZE & TYPE: 60 A MLO
BUS RATING: 100 A
VOLTAGE: 120 / 208 V 1 Ø, 3 WIRE
MOUNTING:
PANEL LOCATION:
FEEDER SIZE: 60A
FED FROM: RP1C
MIN RMS AMPS: 10KAIC

CKT #	CIRCUIT DESCRIPTION	LOAD (kVA)			AMPS / POLES	CKT #	LOAD TYPE		CKT #	AMPS / POLES	LOAD (kVA)			CIRCUIT DESCRIPTION	CKT #
		A		C							A		C		
1	ACC-1	1.000			20A	1	H	O	2	20/1	0.100			DOOR OPERATOR	2
3	ACC-1		1.000		2P	3	H	O	4	20/1		0.100		DOOR OPERATOR	4
5	SPARE				20/1	5			6	20/1				SPARE	6
7	SPARE				20/1	7			8	20/1				SPARE	8
9	SPARE				20/1	9			10	20/1				SPARE	10
11	SPARE				20/1	11			12	20/1				SPARE	12
13	SPARE				20/1	13			14	20/1				SPARE	14
15	SPARE				20/1	15			16	20/1				SPARE	16
17	SPARE				20/1	17			18	20/1				SPARE	18
19					20/1	19			20	20/1					20
21					20/1	21			22	20/1					22
23					20/1	23			24	20/1					24
25					20/1	25			26	20/1					26
27					20/1	27			28	20/1					28
29					20/1	29			30	20/1					30

LOAD SUMMARY		KVA CONNECTED A	B	C	KVA SUMMARY TOTAL		DEMAND	
RECEPTACLES	R	0.000	0.000	0.000	0.000		0.000	
LIGHTING	L	0.000	0.000	0.000	0.000	1.000	0.000	
HVAC	H	1.000	1.000	0.000	2.000	0.950	1.900	
OTHER	O	0.100	0.100	0.000	0.200	1.000	0.200	
EXISTING	E	0.000	0.000	0.000	0.000	1.000	0.000	
TOTAL KVA		1.100	1.100	0.000	2.200		2.100	TOTAL ESTIMATE KVA
VOLTS / PHASE		120	120	120	208		208	SYSTEM VOLTAGE
AMPS / PHASE		9.167	9.167	0.000	6.107		5.829	AMPS

NOTES:

NEW
PNL RP2A

MAIN: SIZE & TYPE: 200 A MCB
BUS RATING: 200 A
VOLTAGE: 120 / 208 V 3 Ø, 4 WIRE
MOUNTING:
PANEL LOCATION: MAIN LEVEL N.WING AREA A CLOSET
FEEDER SIZE: 200A
FED FROM: MDP
MIN RMS AMPS: 10KAIC

	CKT #	CIRCUIT DESCRIPTION	LOAD (kVA)			AMPS / POLES	CKT #	LOAD TYPE		CKT #	AMPS / POLES	LOAD (kVA)			CIRCUIT DESCRIPTION	CKT #
			A		C							A		C		
	1	NORTH OFFICES, CONF. LTS	1.289			20/1	1	L	R	2	20/1	0.720			OFFICE 228,230 REC	2
	3	N. CORR., SUPER, CONF, STAIR LTS		1.284		20/1	3	L	R	4	20/1		0.720		OFFICE 224,226 REC	4
	5	SPARE				20/1	5		R	6	20/1			0.720	OFFICE 220,222 REC	6
	7	OFFICE 212B REC	0.540			20/1	7	R	R	8	20/1	0.720			OFFICE 221, 223 REC	8
	9	RECEPTION & LOUNGE 212 REC		0.720		20/1	9	R	R	10	20/1		0.720		OFFICE 225,227 REC	10
	11	CONF. 212, SUPER TV REC			0.360	20/1	11	R	R	12	20/1			0.720	OFFICE 229,231 REC	12
	13	CONF. 212 WALL/FB REC	0.900			20/1	13	R	R	14	20/1	0.720			OFFICES CORRIDOR REC	14
	15	SUPERINTENDANT CONV. REC		0.540		20/1	15	R	R	16	20/1		0.900		ADMIN CONF. RM WEST REC	16
	17	SUPERINTENDANT DESK REC			0.180	20/1	17	R	R	18	20/1			0.720	ADMIN CONF. RM EAST REC	18
	19	SUPERINTENDANT FRIDGE REC	0.180			20/1	19	R	R	20	20/1	0.360			ADMIN CONF. RM TV REC	20
	21	SUPERINTENDANT COFFEE REC		0.180		20/1	21	R	R	22	20/1		0.720		ADMIN CONF. RM FB REC	22
	23	WORK ROOM CONV. REC			0.360	20/1	23	R	R	24	20/1			0.720	CORRIDOR 201 REC.	24
	25	RPSS OFFICE PRINTER REC	0.180			20/1	25	R	R	26	20/1	0.360			RPSS OFFICE POWER POLE 1	26
	27	WORK ROOM ABOVE COUNTER		0.180		20/1	27	R	R	28	20/1		0.360		RPSS OFFICE POWER POLE 1	28
	29	WORK ROOM ABOVE COUNTER			0.180	20/1	29	R	R	30	20/1			1.080	RPSS OFFICE TV/CONV. REC	30
	31	CONFERENCE RM / TLT RM REC	0.540			20/1	31	R	R	32	20/1	0.540			RPSS PRIVATE OFFICE REC	32
	33	TOILET 203 REC		0.180		20/1	33	R	R	34	20/1		0.360		CAREER OFFICE POWER POLE 1	34
	35	TOILET 205 REC			0.180	20/1	35	R	R	36	20/1			0.360	CAREER OFFICE POWER POLE 1	36
	37	EXHAUST FAN 3	0.190			20/1	37	H	R	38	20/1	1.080			CAREER OFFICE TV/CONV. REC	38
	39	CORRIDOR TABLE REC		0.720		20/1	39	R	R	40	20/1		0.540		CAREER PRIVATE OFFICE REC	40
	41	ACC-1				20/	41	H	R	42	20/1			0.180	CAREER OFFICE PRINTER REC	42
	43	ACC-1				2P	43	H	R	44	20/1	0.360			RPSS OFFICE POWER POLE 2	44
	45	DOOR OPERATOR		0.050		20/1	45	O	R	46	20/1		0.360		RPSS OFFICE POWER POLE 2	46
	47	WORK ROOM COPIER REC			0.180	20/1	47	R	R	48	20/1			0.360	CAREER OFFICE POWER POLE 2	48
	49	TLT RM XMFR (STORAGE)	0.050			20/1	49	O	R	50	20/1	0.360			CAREER OFFICE POWER POLE 2	50
1	51	TV ROOM 216		0.360		20/1	51	R		52	20/1				SPARE	52
	53	SPARE				20/1	53			54	20/1				SPARE	54

LOAD SUMMARY		KVA CONNECTED A	B	C	KVA SUMMARY TOTAL		DEMAND	
RECEPTACLES	R	7.560	7.560	6.300	21.420		15.710	
LIGHTING	L	1.289	1.284	0.000	2.573	1.000	2.573	
HVAC	H	0.190	0.000	0.000	0.190	0.950	0.181	
OTHER	O	0.050	0.050	0.000	0.100	1.000	0.100	
EXISTING	E	0.000	0.000	0.000	0.000	1.000	0.000	
TOTAL KVA		9.089	8.894	6.300	24.283		18.564	TOTAL ESTIMATE KVA
VOLTS / PHASE		120	120	120	208		208	SYSTEM VOLTAGE
AMPS / PHASE		75.742	74.117	52.500	67.405		51.529	AMPS

NOTES:

NO.	REVISION	DATE
1	ADDENDUM 1	08/31/23
	ISSUE FOR BID	08/23/23

KEY PLAN
NO SCALE

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PROJECT TITLE
ADDITION AND RENOVATION:
MIDLAND COUNTY ESA
MIDLAND, MICHIGAN

SHEET TITLE
NEW PANEL SCHEDULES

PROJECT NUMBER
2022006.1
PROJECT DATE
AUGUST 23, 2023
CHECKED BY
JWF
SHEET NUMBER
E4.04