RENOVATION OF RIP ROPE

BUILDING 2833

FORT BENNING, GA

FY2011 LI 74278
SOLICITATION NO. W912HN-09-X-5107
CONTRACT NO. W912HN-10-D-0049 T.O. 0007

FINAL AS-BUILT DRAWINGS

VOLUME II OF II

US Army Corps
of Engineers ®

SAVANNAH DISTRICT

GSC Construction, Inc.
2083 Heckle Street
Augusta, Georgia 30904

STOA Architects
121 East Government Street
Pensacola, Florida 32502
POC : Architectural : Mark Gilliland

LBYD, Inc.
716 South 30th Street
Birmingham, Alabama 35233
POC : Civil : David Coley
POC : Structural : Kevin Brown
POC : Landscape : David Coley

I.C. Thomasson Associates, Inc.
2950 Kraft Drive, Suite 500
Nashville, Tennessee 37204
POC : Mechanical/Plumbing : Brian B. Miller
POC : Electrical : Shane Kirby
POC : Telecommunications : Dean Rickvalsky

FireLogix Engineering, LTD.
1001 West Main Street, Suite F
Lebanon, Ohio 45036
POC : Fire Protection : Bobby Patrick

Simpson Design Group, Inc.
427 West Garden Street, Suite B
Pensacola, Florida 32502
POC : FF&E : Jan Simpson

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR

DESIGNED BY: DB
DRAWN BY: CS, DB, YL
CHECKED BY: DB, SK
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-5107
SUBMITTED BY: STOA ARCHITECTS
CONTRACT NO.: W912HN-10-D-0049 T.O. 0007
FILE NAME: CHECKLIST.DWG
CATEGORY CODE:
SIZE: 22" x 34"
PLOT SCALE: 1
PLOT DATE: 4/6/2015 4:32:29 PM

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
COVER SHEET

FINAL AS-BUILT DRAWINGS

PLATE REFERENCE NUMBER
G-001
SHEET 1 OF 294

74278- GENERAL G-001- 2011
C:\Users\cmoffett\Documents\REVIT\2013\RRR_RB_DMMA-CTRL_cmoffett.rvt

INDEX OF DRAWINGS

VOLUME I OF II

PLATE NO.	SHEET NO.	DGN FILE	TITLE
GENERAL			
G-001	1	G-001.DGN	COVER SHEET
G-002	2	G-002.DGN	INDEX OF DRAWINGS
G-003	3	G-003.DGN	ABBREVIATIONS & SYMBOLS
LIFE SAFETY			
FP-001	4	FP-001.DGN	GENERAL NOTES AND SYMBOLS
FL-001	5	FL-001.DGN	FIRE AND LIFE SAFETY CODE SUMMARY
FL-100	6	FL-100.DGN	OVERALL BASEMENT LIFE SAFETY PLAN
FL-101	7	FL-101.DGN	OVERALL 1ST FLOOR LIFE SAFETY PLAN
FL-102	8	FL-102.DGN	OVERALL 2ND FLOOR LIFE SAFETY PLAN
FL-103	9	FL-103.DGN	OVERALL 3RD FLOOR LIFE SAFETY PLAN
FL-104	10	FL-104.DGN	OVERALL ATTIC LIFE SAFETY PLAN
LANDSCAPING			
L-101	11	L-101.DGN	LANDSCAPE PLAN
STRUCTURAL			
S-001	12	S-001.DGN	GENERAL NOTES
S-002	13	S-002.DGN	GENERAL NOTES
S-003	14	S-003.DGN	ABBREVIATIONS
S-130	15	S-130.DGN	PARTIAL FOUNDATION PLAN - SOUTH
S-131	16	S-131.DGN	PARTIAL FOUNDATION PLAN - NORTH
S-132	17	S-132.DGN	PARTIAL FIRST FLOOR FRAMING PLAN - SOUTH
S-133	18	S-133.DGN	PARTIAL FIRST FLOOR FRAMING PLAN - NORTH
S-134	19	S-134.DGN	PARTIAL SECOND FLOOR AND LOW ROOF FRAMING PLAN - SOUTH
S-135	20	S-135.DGN	PARTIAL SECOND FLOOR FRAMING PLAN - NORTH
S-136	21	S-136.DGN	PARTIAL THIRD FLOOR FRAMING PLAN - SOUTH
S-137	22	S-137.DGN	PARTIAL THIRD FLOOR FRAMING PLAN - NORTH
S-138	23	S-138.DGN	PARTIAL ROOF FRAMING PLAN - SOUTH
S-139	24	S-139.DGN	PARTIAL ROOF FRAMING PLAN - NORTH
S-140	25	S-140.DGN	STAIR TOWER FOUNDATION PLANS
S-141	26	S-141.DGN	STAIR TOWER FIRST FLOOR FRAMING PLAN
S-142	27	S-142.DGN	STAIR TOWER SECOND FLOOR FRAMING PLAN
S-143	28	S-143.DGN	STAIR TOWER THIRD FLOOR FRAMING PLAN
S-144	29	S-144.DGN	STAIR TOWER ROOF FRAMING PLAN
S-200	30	S-200.DGN	ELEVATIONS
S-201	31	S-201.DGN	ELEVATIONS

VOLUME I OF II

PLATE NO.	SHEET NO.	DGN FILE	TITLE
S-300	32	S-300.DGN	SECTIONS
S-301	33	S-301.DGN	SECTIONS
S-302	34	S-302.DGN	SECTIONS
S-310	35	S-310.DGN	SECTIONS
S-311	36	S-311.DGN	SECTIONS
S-320	37	S-320.DGN	SECTIONS
S-321	38	S-321.DGN	SECTIONS
S-500	39	S-500.DGN	TYPICAL DETAILS
S-501	40	S-501.DGN	TYPICAL DETAILS
S-502	41	S-502.DGN	TYPICAL DETAILS
S-600	42	S-600.DGN	SPECIAL INSPECTIONS
S-601	43	S-601.DGN	SCHEDULES
ARCHITECTURAL			
A-001	44	A-001.DGN	ARCHITECTURAL SITE PLAN
A-002	45	A-002.DGN	DUMPSTER ENCLOSURE
A-003	46	A-003.DGN	MECHANICAL ENCLOSURE & DETAILS
A-004	47	A-004.DGN	PRE-MANUFACTURED CANOPY
A-100	48	A-100.DGN	OVERALL BASEMENT FLOOR PLAN
A-101	49	A-101.DGN	OVERALL 1ST FLOOR PLAN
A-102	50	A-102.DGN	OVERALL 2ND FLOOR PLAN
A-103	51	A-103.DGN	OVERALL 3RD FLOOR & ATTIC ROOF PLAN
A-110	52	A-110.DGN	PARTIAL BASEMENT PLAN
A-111	53	A-111.DGN	PARTIAL 1ST FLOOR PLAN
A-112	54	A-112.DGN	PARTIAL 1ST FLOOR PLAN
A-113	55	A-113.DGN	PARTIAL 1ST FLOOR DIMENSION PLAN
A-114	56	A-114.DGN	PARTIAL 1ST FLOOR DIMENSION PLAN
A-121	57	A-121.DGN	PARTIAL 2ND FLOOR PLAN
A-122	58	A-122.DGN	PARTIAL 2ND FLOOR PLAN
A-123	59	A-123.DGN	PARTIAL 2ND FLOOR DIMENSION PLAN
A-124	60	A-124.DGN	PARTIAL 2ND FLOOR DIMENSION PLAN
A-131	61	A-131.DGN	PARTIAL 3RD FLOOR PLAN
A-132	62	A-132.DGN	PARTIAL 3RD FLOOR PLAN
A-133	63	A-133.DGN	PARTIAL 3RD FLOOR DIMENSION PLAN
A-134	64	A-134.DGN	PARTIAL 3RD FLOOR DIMENSION PLAN
A-135	65	A-135.DGN	PARTIAL ATTIC FLOOR PLAN
A-136	66	A-136.DGN	PARTIAL ATTIC FLOOR PLAN

VOLUME I OF II

PLATE NO.	SHEET NO.	DGN FILE	TITLE
A-140	67	A-140.DGN	OVERALL ROOF PLAN
A-141	68	A-141.DGN	PARTIAL ROOF PLAN
A-142	69	A-142.DGN	PARTIAL ROOF PLAN
A-150	70	A-150.DGN	BASEMENT REFLECTED CEILING PLAN
A-151	71	A-151.DGN	PARTIAL 1ST FLOOR REFLECTED CEILING PLAN
A-152	72	A-152.DGN	PARTIAL 1ST FLOOR REFLECTED CEILING PLAN
A-153	73	A-153.DGN	PARTIAL 2ND FLOOR REFLECTED CEILING PLAN
A-154	74	A-154.DGN	PARTIAL 2ND FLOOR REFLECTED CEILING PLAN
A-155	75	A-155.DGN	PARTIAL 3RD FLOOR REFLECTED CEILING PLAN
A-156	76	A-156.DGN	PARTIAL 3RD FLOOR REFLECTED CEILING PLAN
A-210	77	A-210.DGN	EXTERIOR ELEVATIONS
A-211	78	A-211.DGN	PARTIAL ELEVATION
A-212	79	A-212.DGN	PARTIAL ELEVATION
A-213	80	A-213.DGN	ENLARGED ELEVATION
A-300	81	A-300.DGN	BUILDING SECTIONS
A-301	82	A-301.DGN	PARTIAL BUILDING SECTIONS
A-302	83	A-302.DGN	ENLARGED BUILDING SECTION
A-303	84	A-303.DGN	ENLARGED BUILDING SECTION
A-310	85	A-310.DGN	WALL SECTIONS
A-311	86	A-311.DGN	WALL SECTIONS
A-400	87	A-400.DGN	ENLARGED PLANS - TOILET ROOMS
A-401	88	A-401.DGN	ENLARGED PLANS - TOILET ROOMS
A-402	89	A-402.DGN	ENLARGED PLANS - TOIELT ROOMS
A-403	90	A-402.DGN	ENLARGED PLANS - STAIRS (EXTERIOR)
A-404	91	A-403.DGN	STAIRS - PLANS & SECTION (EXTERIOR)
A-405	92	A-404.DGN	WEST STAIR SECTIONS
A-406	93	A-405.DGN	ENLARGED PLANS - EAST STAIR (EXTERIOR)
A-407	94	A-406.DGN	EAST STAIR SECTIONS
A-408	95	A-407.DGN	ENLARGED PLANS - STAIRS (EXTERIOR)
A-409	96	A-408.DGN	ENLARGED PLANS - MODULE
A-410	97	A-409.DGN	TYPICAL STAIR DETAILS
A-500	98	A-500.DGN	ARCHITECTURAL DETAILS
A-501	99	A-501.DGN	ARCHITECTURAL DETAILS
A-502	100	A-502.DGN	ARCHITECTURAL DETAILS
A-503	101	A-503.DGN	ARCHITECTURAL DETAILS
A-504	102	A-504.DGN	ARCHITECTURAL DETAILS

VOLUME I OF II

PLATE NO.	SHEET NO.	DGN FILE	TITLE
A-505	103	A-505.DGN	ARCHITECTURAL DETAILS
A-510	104	A-510.DGN	PARTITION TYPES
A-511	105	A-511.DGN	PARTITION TYPES
A-512	106	A-512.DGN	PARTITION TYPES
A-520	107	A-520.DGN	CASEWORK SECTIONS & DETAILS
A-600	108	A-600.DGN	DOOR AND WINDOW SCHEDULE
A-601	109	A-601.DGN	DOOR SCHEDULE AND WINDOW DETAILS
A-602	110	A-602.DGN	DOOR AND WINDOW DETAILS
A-603	111	A-603.DGN	STOREFRONT, STC 42 & 50 DOOR DETAILS
A-604	112	A-604.DGN	STC 53 & TYPICAL DOOR DETAILS
A-605	112.1	A-605.DGN	LOUVER DETAILS
A-610	113	A-610.DGN	FINISH SCHEDULE
A-611	114	A-611.DGN	FINISH SCHEDULE
A-621	114.1	A-621.DGN	SIGNAGE PLAN - BASEMENT
A-622	115	A-622.DGN	SIGNAGE PLAN - PARTIAL FIRST FLOOR
A-623	116	A-623.DGN	SIGNAGE PLAN - PARTIAL FIRST FLOOR
A-624	117	A-624.DGN	SIGNAGE PLAN - PARTIAL SECOND FLOOR
A-625	118	A-625.DGN	SIGNAGE PLAN - PARTIAL SECOND FLOOR
A-626	119	A-626.DGN	SIGNAGE PLAN - PARTIAL THIRD FLOOR
A-627	120	A-627.DGN	SIGNAGE PLAN - PARTIAL THIRD FLOOR
A-628	121	A-628.DGN	SIGNAGE SCHEDULE AND DETAILS
A-629	122	A-629.DGN	SIGNAGE DETAILS
A-901	123	A-901.DGN	AIR BARRIER PLANS
A-902	124	A-902.DGN	AIR BARRIER PLANS
A-903	125	A-903.DGN	AIR BARRIER BUILDING SECTIONS
A-904	126	A-904.DGN	AIR BARRIER DETAILS
A-905	127	A-905.DGN	AIR BARRIER WALL DETAILS
INTERIORS			
I-100	128	I-100.DGN	OVERALL BASEMENT FURNITURE PLAN
I-101	129	I-101.DGN	PARTIAL 1ST FLOOR FURNITURE PLAN - SOUTH
I-102	130	I-102.DGN	PARTIAL 1ST FLOOR FURNITURE PLAN - NORTH
I-106	131	I-106.DGN	ENLARGED FURNITURE PLAN
I-201	132	I-201.DGN	PARTIAL 2ND FLOOR PLAN FURNITURE PLAN - SOUTH
I-202	133	I-202.DGN	PARTIAL 2ND FLOOR FURNITURE PLAN - NORTH
I-301	134	I-301.DGN	PARTIAL 3RD FLOOR FURNITURE PLAN - SOUTH
I-302	135	I-302.DGN	PARTIAL 3RD FLOOR FURNITURE PLAN - NORTH

VOLUME II OF II

PLATE NO.	SHEET NO.	DGN FILE	TITLE
FIRE PROTECTION			
FA-100	136	FA-100.DGN	OVERALL BASEMENT FA/MNS PLAN
FA-101	137	FA-101.DGN	OVERALL 1ST FLOOR FA/MNS PLAN
FA-102	138	FA-102.DGN	OVERALL 2ND FLOOR FA/MNS PLAN
FA-103	139	FA-103.DGN	OVERALL 3RD FLOOR FA/MNS PLAN
FA-104	140	FA-104.DGN	OVERALL ATTIC PLAN
FA-110	141	FA-110.DGN	PARTIAL BASEMENT FA/MNS PLAN SOUTH
FA-111	142	FA-111.DGN	PARTIAL 1ST FLOOR FA/MNS PLAN SOUTH
FA-112	143	FA-112.DGN	PARTIAL 1ST FLOOR FA/MNS PLAN NORTH
FA-121	144	FA-121.DGN	PARTIAL 2ND FLOOR FA/MNS PLAN SOUTH
FA-122	145	FA-122.DGN	PARTIAL 2ND FLOOR FA/MNS PLAN NORTH
FA-131	146	FA-131.DGN	PARTIAL 3RD FLOOR FA/MNS PLAN SOUTH
FA-132	147	FA-132.DGN	PARTIAL 3RD FLOOR FA/MNS PLAN NORTH
FA-501	148	FA-501.DGN	FIRE ALARM DETAILS
FA-601	149	FA-601.DGN	FIRE ALARM RISER DIAGRAM
FX-100	150	FX-100.DGN	OVERALL BASEMENT FIRE SPRINKLER PLAN
FX-101	151	FX-101.DGN	OVERALL 1ST FLOOR FIRE SPRINKLER PLAN
FX-102	152	FX-102.DGN	OVERALL 2ND FLOOR FIRE SPRINKLER PLAN
FX-103	153	FX-103.DGN	OVERALL 3RD FLOOR FIRE SPRINKLER PLAN
FX-104	154	FX-104.DGN	OVERALL ATTIC FIRE SPRINKLER PLAN
FX-110	155	FX-110.DGN	PARTIAL BASEMENT FIRE SPRINKLER PLAN SOUTH
FX-111	156	FX-111.DGN	PARTIAL 1ST FLOOR FIRE SPRINKLER PLAN SOUTH
FX-112	157	FX-112.DGN	PARTIAL 1ST FLOOR FIRE SPRINKLER PLAN NORTH
FX-121	158	FX-121.DGN	PARTIAL 2ND FLOOR FIRE SPRINKLER PLAN SOUTH
FX-122	159	FX-122.DGN	PARTIAL 2ND FLOOR FIRE SPRINKLER PLAN NORTH
FX-131	160	FX-131.DGN	PARTIAL 3RD FLOOR FIRE SPRINKLER PLAN SOUTH
FX-132	161	FX-132.DGN	PARTIAL 3RD FLOOR FIRE SPRINKLER PLAN NORTH
FX-301	162	FX-301.DGN	FIRE SPRINKLER SECTIONS
FX-302	163	FX-302.DGN	FIRE SPRINKLER SECTIONS
FX-303	164	FX-303.DGN	FIRE SPRINKLER ISOMETRIC
FX-501	165	FX-501.DGN	FIRE SPRINKLER DETAILS
PLUMBING			
P-001	166	P-001.DGN	PLUMBING LEGEND
P-101	167	P-101.DGN	UNDERGROUND - BASEMENT FLOOR PLAN
P-102	168	P-102.DGN	UNDERGROUND - BASEMENT FLOOR PLAN
P-201	169	P-201.DGN	PLUMBING - BASEMENT FLOOR PLAN
P-211	170	P-211.DGN	PLUMBING - FIRST FLOOR PLAN
P-212	171	P-212.DGN	PLUMBING - FIRST FLOOR PLAN
P-221	172	P-221.DGN	PLUMBING - SECOND FLOOR PLAN
P-222	173	P-222.DGN	PLUMBING - SECOND FLOOR PLAN
P-231	174	P-231.DGN	PLUMBING - THIRD FLOOR PLAN

VOLUME II OF II

PLATE NO.	SHEET NO.	DGN FILE	TITLE
P-232	175	P-232.DGN	PLUMBING - THIRD FLOOR PLAN
P-301	176	P-301.DGN	SANITARY/VENT - BASEMENT FLOOR PLAN
P-302	177	P-302.DGN	SANITARY/VENT - BASEMENT FLOOR PLAN
P-311	178	P-311.DGN	SANITARY/VENT - FIRST FLOOR PLAN
P-312	179	P-312.DGN	SANITARY/VENT - FIRST FLOOR PLAN
P-321	180	P-321.DGN	SANITARY/VENT - SECOND FLOOR PLAN
P-322	181	P-322.DGN	SANITARY/VENT - SECOND FLOOR PLAN
P-331	182	P-331.DGN	SANITARY/VENT - THIRD FLOOR PLAN
P-332	183	P-332.DGN	SANITARY/VENT - THIRD FLOOR PLAN
P-341	184	P-341.DGN	SANITARY/VENT - ROOF FLOOR PLAN
P-342	185	P-342.DGN	SANITARY/VENT - ROOF FLOOR PLAN
P-401	186	P-401.DGN	SANITARY RISER DIAGRAM
P-402	187	P-402.DGN	SANITARY RISER DIAGRAM
P-403	188	P-403.DGN	SANITARY RISER DIAGRAM
P-404	189	P-404.DGN	SANITARY RISER DIAGRAM
P-405	190	P-405.DGN	SANITARY RISER DIAGRAM
P-406	191	P-406.DGN	PLUMBING RISER DIAGRAM
P-407	192	P-407.DGN	PLUMBING RISER DIAGRAM
P-408	193	P-408.DGN	PLUMBING RISER DIAGRAM
P-409	194	P-409.DGN	PLUMBING RISER DIAGRAM
P-410	195	P-410.DGN	PLUMBING RISER DIAGRAM
P-501	196	P-501.DGN	PLUMBING ENLARGED PLANS
P-601	197	P-601.DGN	PLUMBING DETAILS
P-602	198	P-602.DGN	PLUMBING DETAILS
P-701	199	P-701.DGN	PLUMBING SCHEDULES
MECHANICAL			
M-001	200	M-001.DGN	HVAC LEGEND
M-101	201	M-101.DGN	HVAC - BASEMENT FLOOR PLAN
M-111	202	M-111.DGN	HVAC - FIRST FLOOR PLAN
M-112	203	M-112.DGN	HVAC - FIRST FLOOR PLAN
M-121	204	M-121.DGN	HVAC - SECOND FLOOR PLAN
M-122	205	M-122.DGN	HVAC - SECOND FLOOR PLAN
M-131	206	M-131.DGN	HVAC - THIRD FLOOR PLAN
M-132	207	M-132.DGN	HVAC - THIRD FLOOR PLAN
M-141	208	M-141.DGN	HVAC - ATTIC FLOOR PLAN
M-142	209	M-142.DGN	HVAC - ATTIC FLOOR PLAN
M-151	210	M-151.DGN	HVAC - ROOF PLAN
M-152	211	M-152.DGN	HVAC - ROOF PLAN
M-201	212	M-201.DGN	PIPING - BASEMENT FLOOR PLAN
M-211	213	M-211.DGN	PIPING - FIRST FLOOR PLAN
M-212	214	M-212.DGN	PIPING - FIRST FLOOR PLAN

VOLUME II OF II

PLATE NO.	SHEET NO.	DGN FILE	TITLE
M-221	215	M-221.DGN	PIPING - SECOND FLOOR PLAN
M-222	216	M-222.DGN	PIPING - SECOND FLOOR PLAN
M-231	217	M-231.DGN	PIPING - THIRD FLOOR PLAN
M-232	218	M-232.DGN	PIPING - THIRD FLOOR PLAN
M-241	219	M-241.DGN	PIPING - ATTIC FLOOR PLAN
M-242	220	M-242.DGN	PIPING - ATTIC FLOOR PLAN
M-301	221	M-301.DGN	HVAC BUILDING SECTION
M-401	222	M-401.DGN	HVAC ENLARGED PLANS
M-501	223	M-501.DGN	HVAC DETAILS
M-502	224	M-502.DGN	HVAC DETAILS
M-503	225	M-503.DGN	HVAC DETAILS
M-504	226	M-504.DGN	HVAC DETAILS
M-601	227	M-601.DGN	HVAC SCHEDULES
M-602	228	M-602.DGN	HVAC SCHEDULES
M-603	229	M-603.DGN	HVAC SCHEDULES
M-604	230	M-604.DGN	HVAC SCHEDULES
M-701	231	M-701.DGN	HVAC CONTROLS
M-702	232	M-702.DGN	HVAC CONTROLS
M-703	233	M-703.DGN	HVAC CONTROLS
M-704	234	M-704.DGN	HVAC CONTROLS
M-705	235	M-705.DGN	HVAC CONTROLS
M-706	236	M-706.DGN	HVAC CONTROLS
M-707	237	M-707.DGN	HVAC CONTROLS
M-708	238	M-708.DGN	HVAC CONTROLS
M-709	239	M-709.DGN	HVAC CONTROLS
M-710	240	M-710.DGN	HVAC CONTROLS
ELECTRICAL			
E-001	241	E-001.DGN	LEGEND AND ABBREVIATIONS
E-002	242	E-002.DGN	ELECTRICAL SITE PLAN
E-101	243	E-101.DGN	LIGHTING - BASEMENT FLOOR PLAN
E-111	244	E-111.DGN	LIGHTING - FIRST FLOOR PLAN
E-112	245	E-112.DGN	LIGHTING - FIRST FLOOR PLAN
E-121	246	E-121.DGN	LIGHTING - SECOND FLOOR PLAN
E-122	247	E-122.DGN	LIGHTING - SECOND FLOOR PLAN
E-131	248	E-131.DGN	LIGHTING - THIRD FLOOR PLAN
E-132	249	E-132.DGN	LIGHTING - THIRD FLOOR PLAN
E-141	250	E-141.DGN	LIGHTING - ATTIC PLAN
E-142	251	E-142.DGN	LIGHTING - ATTIC PLAN
E-201	252	E-201.DGN	POWER - BASEMENT FLOOR PLAN
E-211	253	E-211.DGN	POWER - FIRST FLOOR PLAN
E-212	254	E-212.DGN	POWER - FIRST FLOOR PLAN

VOLUME II OF II

PLATE NO.	SHEET NO.	DGN FILE	TITLE
E-221	255	E-221.DGN	POWER - SECOND FLOOR PLAN
E-222	256	E-222.DGN	POWER - SECOND FLOOR PLAN
E-231	257	E-231.DGN	POWER - THIRD FLOOR PLAN
E-232	258	E-232.DGN	POWER - THIRD FLOOR PLAN
E-241	259	E-241.DGN	POWER - ATTIC PLAN
E-242	260	E-242.DGN	POWER - ATTIC PLAN
E-501	261	E-501.DGN	FIRE PENETRATION DETAILS
E-502	262	E-502.DGN	FIRE PENETRATION DETAILS
E-503	263	E-503.DGN	LIGHTNING PROTECTION DETAILS
E-504	264	E-504.DGN	ELECTRICAL DETAILS
E-601	265	E-601.DGN	RISER DIAGRAMS
E-602	266	E-602.DGN	PANEL SCHEDULES
E-603	267	E-603.DGN	PANEL SCHEDULES
E-604	268	E-604.DGN	PANEL SCHEDULES
E-605	269	E-605.DGN	PANEL SCHEDULES
E-606	270	E-606.DGN	PANEL SCHEDULES
E-701	271	E-701.DGN	LIGHTNING PROTECTION - ROOF PLAN - OVERALL
TELECOMMUNICATIONS			
T-001	272	T-001.DGN	TELECOMMUNICATIONS LEGEND
T-002	273	T-002.DGN	TELECOMMUNICATIONS - FACEPLATES
T-101	274	T-101.DGN	TELECOMMUNICATIONS - BASEMENT FLOOR PLAN
T-111	275	T-111.DGN	TELECOMMUNICATIONS - FIRST FLOOR PLAN
T-121	276	T-121.DGN	TELECOMMUNICATIONS - SECOND FLOOR PLAN
T-131	277	T-131.DGN	TELECOMMUNICATIONS - THIRD FLOOR PLAN
T-201	278	T-201.DGN	SYSTEMS - BASEMENT FLOOR PLAN
T-211	279	T-211.DGN	SYSTEMS - FIRST FLOOR PLAN
T-212	280	T-212.DGN	SYSTEMS - FIRST FLOOR PLAN
T-221	281	T-221.DGN	SYSTEMS - SECOND FLOOR PLAN
T-222	282	T-222.DGN	SYSTEMS - SECOND FLOOR PLAN
T-231	283	T-231.DGN	SYSTEMS - THIRD FLOOR PLAN
T-232	284	T-232.DGN	SYSTEMS - THIRD FLOOR PLAN
T-411	285	T-411.DGN	AUDIO VISUAL - FIRST FLOOR PLAN
T-601	286	T-601.DGN	PATHWAYS - BASEMENT FLOOR PLAN
T-611	287	T-611.DGN	PATHWAYS - FIRST FLOOR PLAN
T-701	288	T-701.DGN	TELECOMMUNICATIONS - RISERS
T-702	289	T-702.DGN	AUDIO VISUAL RISER
T-801	290	T-801.DGN	TELECOMMUNCATIONS - ELEVATIONS
T-930	291	T-930.DGN	SYSTEM DETAILS
T-940	292	T-940.DGN	SECURITY DETAILS
T-960	293	T-960.DGN	PATHWAY DETAILS
T-961	294	T-961.DGN	PATHWAY DETAILS

FINAL AS-BUILT DRAWINGS

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR'D
3	CORRECTIONS AND MODIFICATION TO DRAWINGS FOR CLARIFICATION	11/18/2013	
2	MODIFICATION PER RFI RESPONSE OR FIELD VERIFICATION	09/16/2013	
1	WALK-OFF MAT REVISION AND CORRECTIONS	08/14/2013	

DESIGNED BY: DB
DRAWN BY: CS, DB
CHECKED BY: DB, SK
SUBMITTED BY: STOA ARCHITECTS
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-3107
CONTRACT NO.: W912JNV-10-D-0049 T.O. 0007
FILE NAME: G-002.DGN
SIZE: 22" x 34"
CATEGORY CODE:
PLOT SCALE:
PLOT DATE: 4/8/2015 2:08:59 PM

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

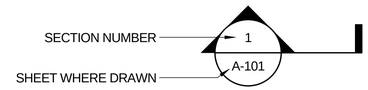
STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
INDEX OF DRAWINGS

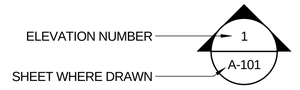
PLATE REFERENCE NUMBER
G-002
SHEET 2

74278- GENERAL G-002-
C:\Users\cmoffett\Documents\REVIT2013\RRR_RB_DMMA-CTRL_cmoffett.rvt

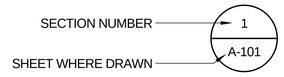
SYMBOLS



SYMBOL WHERE SECTION IS TAKEN



SYMBOL WHERE ELEVATION IS TAKEN



TITLE WHERE SECTION OR ELEVATION IS SHOWN

ROOM NAME
101
ROOM TAG

A
WINDOW TAG

100A
DOOR TAG

1
LOUVER TAG

1
WALL TAG

MATERIAL INDICATIONS

EARTH

GRAVEL

CONCRETE

MORTAR - CEMENT - PLASTER - STUCCO

CMU

STEEL (SECTION)

INSULATION (RIGID)

INSULATION (FIBER BATT)

BRICK

WOOD (BLOCKING)

WOOD (FINISH)

GENERAL NOTES

1. WRITTEN SCALES ARE FOR 22" X 34" DRAWINGS.
2. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, CONTACT THE ARCHITECT.
3. DIMENSIONS SHOWN ON FLOOR PLANS ARE TO FACE OF STUD WALLS, TO CENTERLINE OF COLUMNS, TO FACE OF CONCRETE OR MASONRY WALL OR TO FINISH FACE OF EXISTING CONSTRUCTION UNLESS OTHERWISE INDICATED.
4. CONTRACTOR SHALL REFER TO AS-BUILT DRAWINGS ISSUED BY GOVERNMENT FOR ADDITIONAL INFORMATION.
5. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CORING EXISTING FLOORS.

STANDARD ABBREVIATIONS

A		CONST	CONSTRUCTION	G		K		PER.	PERIMETER	STOR	STORAGE
AC	AIR CONDITIONED	CONT	CONTINUOUS	GA	GAGE	KVA	KILOVOLT-AMPERE	PJF	PREFORMED JOINT FILLER	STRUC	STRUCTURAL
AD	AREA DRAIN	CONTR JT	CONTRACTION JOINT	GAL	GALLON	L		PL	PLATE	SUSP	SUSPENDED
AFF	ABOVE FINISHED FLOOR	CSC	COLOR SYMBOL CODE	GALV	GALVANIZED	LB, #	POUND	PLBG	PLUMBING	SW	SWITCH
AHU	AIR HANDLING UNIT	CT	CERAMIC TILE	GFE	GOVERNMENT FURNISHED EQUIPMENT	LG	LONG	PLYWD	PLYWOOD		
ALT	ALTERNATE	CTB	CERAMIC TILE BASE	GL	GLASS	LLV	LONG LEG VERTICAL	PNL	PANEL	T	
ALUM	ALUMINUM	CTOC	CENTER TO CENTER	GMS	GALVANIZED METAL STUD	LP	LIGHTING PANEL	PRESS.	PRESSURE	T	TOILET
AMP, A	AMPERES			GND	GROUND	LTG	LIGHTING	PSF	POUNDS/SQUARE FOOT	TEL	TELEPHONE
AO	ACCESS OPENING	D		GOVT	GOVERNMENT			PSI	POUNDS/SQUARE INCH	TEMP	TEMPERATURE
APPROX	APPROXIMATELY	DET	DETAIL	GPH	GALLONS/HOUR	M		PSIG	POUNDS/SQUARE INCH-GAGE	THK	THICKNESS
ARCH	ARCHITECTURAL	DIA	DIAMETER	GPM	GALLOS/MINUTE	M	MOTOR	PT	POINT	THD	THRESHOLD
A.T.	ASPHALT TILE	DIFF	DIFFUSER	GR	GRILLE	MAINT	MAINTENANCE	PTD	PAINTED	TOC	TOP OF CONCRETE
ATC	ACOUSTIC TILE CEILING	DIM	DIMENSION	GWB	GYPSUM WALLBOARD	MAX	MAXIMUM			TOF	TOP OF FOOTING
		DISC	DISCONNECT			MDP	MAIN DISTRIBUTION PANEL	Q		TOIL	TOILET
B		DJ	DUMMY JOINT	H		MECH	MECHANICAL	QTR	QUARTER	TYP	TYPICAL
BAL	BALANCE	DN	DOWN	H	HIGH	MTL	METAL	QUAN	QUANTITY		
BD	BOARD	DR	DRAIN	HB	HOSE BIB	MIN	MINIMUM			V	
BLDG	BUILDING	DS	DOWNSPOUT	HC	HOLLOW CORE	MISC	MISCELLANEOUS	R		V	VOLT
BLK	BLANK	DWG(S)	DRAWING(S)	HT	HEIGHT	MO	MASONRY OPENING	R	RISER	VAT	VINYL ASBESTOS TILE
BM	BEAM			HORIZ	HORIZONTAL	MT	METAL THRESHOLD	RA	RETURN AIR	VENT.	VENTILATION
BOT	BOTTOM	E		HM	HOLLOW METAL	MTD	MOUNTED	RAD	RADIUS	VERT	VERTICAL
BRG	BEARING	EA	EACH	HP	HORSEPOWER	MTG	MOUNTING	RD	ROUND	VTR	VENT THROUGH ROOF
BTUH	BRITISH THERMO UNIT/HOUR	EF	EACH FACE	HR	HOUR	MV	MECHANICAL/VENTILATION	REG	REGISTER		
		ELEC	ELECTRIC	HTG	HEATING	MGT	MATTE GLAZE TILE	REIF	REINFORCING	W	
C		EQUIP	EQUIPMENT	HTR	HEATER			REQ	REQUIRED	W	WATT
CAB	CABINET	EW	EACH WAY	H&V	HEATING AND VENTILATING	N		RET	RETURN	W/	WITH
CAP	CAPACITY	EWC	ELECTRIC WATER COOLER	HW	HARDWARE	NA	NOT APPLICABLE	RG	RETURN GRILLE	WC	WAINSCOATING
C/B	CIRCUIT BREAKER	EXH	EXHAUST	HYD	HYDRANT	NIC	NOT IN CONTRACT	RM	ROOM	WD	WOOD
CD	CEILING DIFFUSER	EXP JT	EXPANSION JOINT			NO	NUMBER	RPM	REVOLUTIONS/MINUTE	W.D.	WINDOW DIMENSION
CEM	CEMENT	EXT	EXTERIOR	I						WF	WIDE FLANGE
CER	CERAMIC	EXIST	EXISTING	ID	INSIDE DIAMETER	O		S		WG	WEATHER GAGE
CFM	CUBIC FEET/MINUTE			IE	INVERT ELEVATION	OA	OUTDOOR AIR	S	SUPPLY	WP	WEATHERPROOF
CKT	CIRCUIT	F		IN	INCHES	OC	ON CENTER	SA	SUPPLY AIR	WTR	WATER
CL	CENTERLINE	FA	FIRE ALARM	INCAND	INCANDESCENT	OL	OVERLOAD	SCH	SCHEDULE	WWF	WELDED WIRE FABRIC
CEIL	CEILING	FC	FLEXIBLE CONNECTION	INSUL	INSULATION	OPNG	OPENING	SECT	SECTION		
CL	CLOSET	FD	FLOOR DRAIN	INT	INTERIOR	OPP	OPPOSITE	SERV	SERVICE		
CLR	CLEAR	FEC	FIRE EXTINGUISHER CABINET			OSD	OPEN SIGHT DRAIN	SHT	SHEET		
CMU	CONCRETE MASONRY UNIT	FIN	FINISH	J				SJ	SAWED JOINT		
CO	CLEANOUT	FL	FLOOR	JB	JUNCTION BOX	P		SPEC	SPECIFICATIONS		
COL	COLUMN	FT	FOOT, FEET	JCT	JUNCTION	P	PAPER	SQ FT	SQUARE FEET		
CONC	CONCRETE	FTG	FOOTING	JT	JOINT	PART.	PARTITION	ST	STEEL		
COND	CONDENSATE										
CONN	CONNECTION										

FINAL AS-BUILT DRAWINGS

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: DB	CHECKED BY: DB, SK	ISSUE DATE: JUNE 2013	
DRAWN BY: YL		SOLICITATION NO.: W912HN-09-X-5107	
SUBMITTED BY: STOA ARCHITECTS		CONTRACT NO.: W912HN-10-D-0048 T.O. 0007	
FILE NAME: G-003.DGN		CATEGORY CODE:	
SIZE: 22" x 34"	PLOT SCALE:	PLOT DATE: 4/8/2015 11:52:06 AM	

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

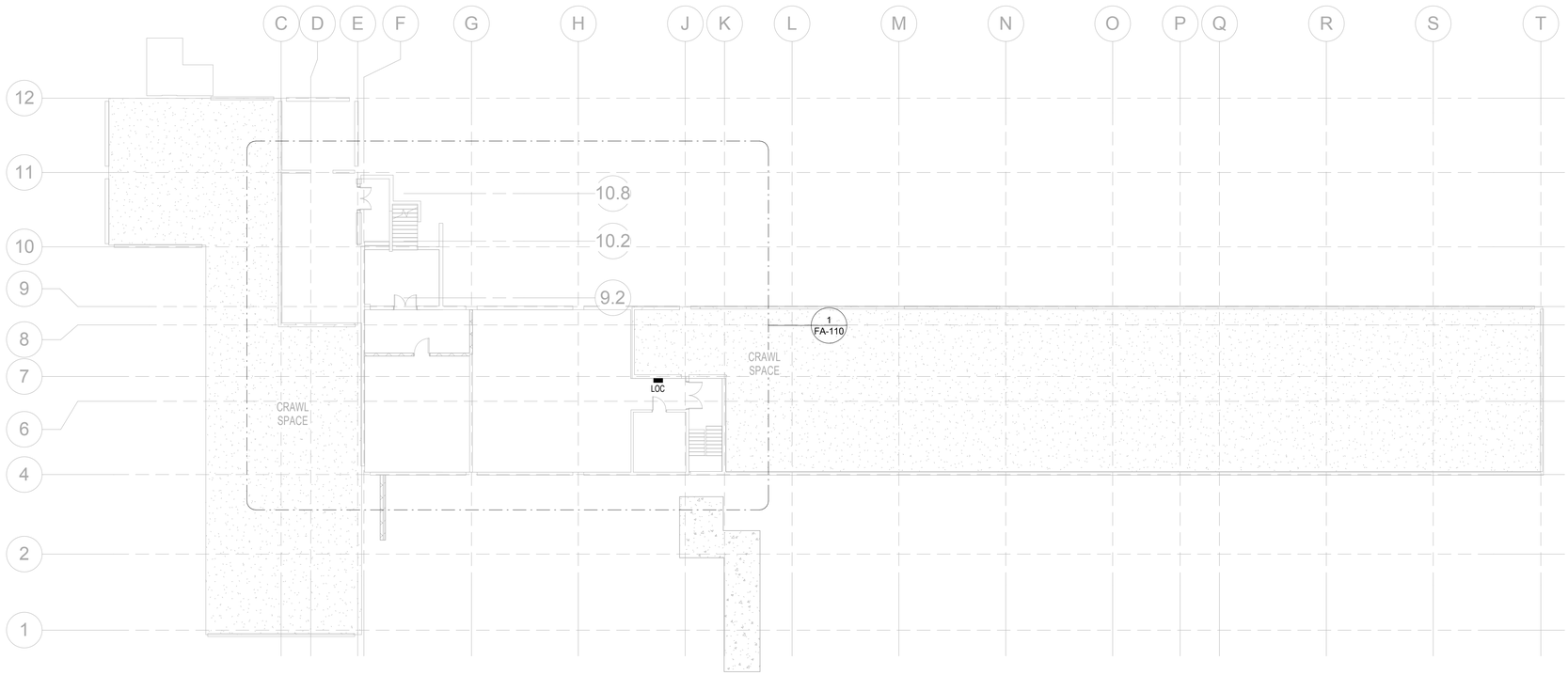
STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA

ABBREVIATIONS & SYMBOLS

PLATE REFERENCE NUMBER
G-003
SHEET 3

74278- GENERAL G-003-
11073_ C:\Users\cmoffett\Documents\REVIT\2013\RRR_RB_DMMA-CTRL_cmoffett.rvt



1 / FA-100 OVERALL BASEMENT FA/MNS PLAN

1/16" = 1'-0"

THIS PLAN IS TO ORIENT THE USER AND SHOW LOCATIONS OF MAIN PANELS SUCH AS FACU, LOC, AND SNAC PANELS. SEE DETAIL PLANS REFERENCED FOR COMPLETE LAYOUT.

SEE SHEET FP-001 FOR GENERAL NOTES

PLAN NORTH

8' 0' 8' 16'

SCALE: 1/16" = 1'

FireLogix ENGINEERING, LTD.

FINAL AS-BUILT DRAWINGS

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: REP	CHECKED BY: REP	ISSUE DATE: JUNE 2013	
DRAWN BY: RSB		SOLICITATION NO.: W912HN-09-X-5107	
SUBMITTED BY: STOA ARCHITECTS		CONTRACT NO.: W912HN-10-D-0048 T.O. 0007	
FILE NAME: FA-100.DWG		CATEGORY CODE:	
SIZE: 22" x 34"	PLOT SCALE: 1/16" = 1'-0"	PLOT DATE: 5/4/2015 7:13:22 AM	

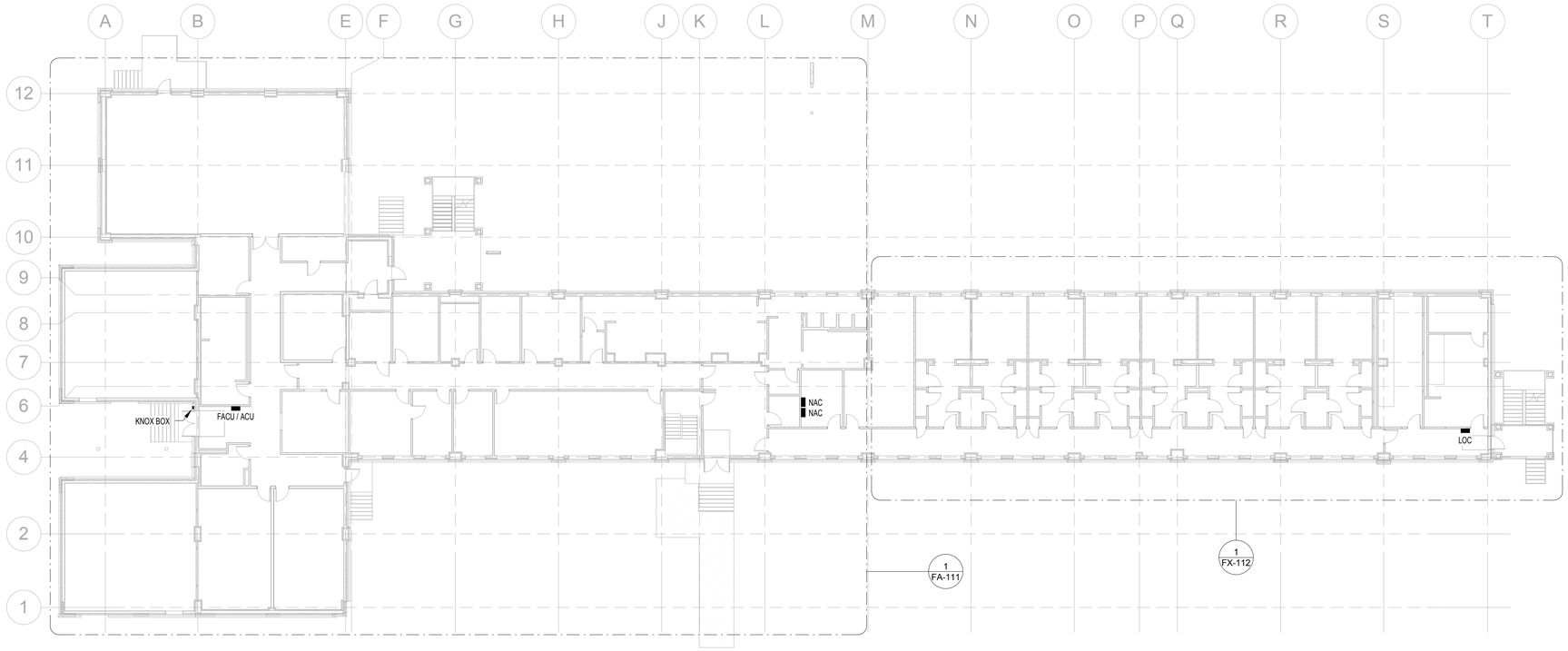
US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
OVERALL BASEMENT FA/MNS PLAN

PLATE REFERENCE NUMBER
FA-100
SHEET 136

74278- FA-100-
C:\Users\bpatrick\Documents\RRR_RB_DMMF-CON_bpatrick.rvt



1 FA-101 OVERALL 1ST FLOOR FA/MNS PLAN

1/16" = 1'-0"

THIS PLAN IS TO ORIENT THE USER AND SHOW LOCATIONS OF MAIN PANELS SUCH AS FACU, LOC, AND SNAC PANELS. SEE DETAIL PLANS REFERENCED FOR COMPLETE LAYOUT.

FIRE ALARM / MNS SYMBOLS

- MANUAL PULL STATION
- SMOKE DETECTOR
- STROBE - CEILING - CLEAR
- STROBE - WALL - CLEAR
- STROBE - CEILING - AMBER
- STROBE - WALL - AMBER
- SPEAKER - WALL
- SPEAKER STROBE - WALL
- SPEAKER - CEILING
- SPEAKER STROBE - CEILING
- (AI) ADDRESSABLE INPUT MODULE
- (AO) ADDRESSABLE OUTPUT MODULE
- PANEL (SEE SUBSCRIPTS)

PANEL LABELS
ACU AUDIO CONTROL UNIT
FACU FIRE ALARM CONTROL UNIT
LOC LOCAL OPERATOR CONSOLE
NAC STROBE BOOSTER PANEL

DEVICE SUBSCRIPTS
HA HIGH AIR
LA LOW AIR
PIV POST INDICATOR VALVE
PS PRESSURE SWITCH
SS SMOKE ALARM W/SOUNDER BASE
TS TAMPER SWITCH
WF WATER FLOW SWITCH
WP WEATHERPROOF

SEE SHEET FP-001 FOR GENERAL NOTES

PLAN NORTH

8' 0' 8' 16'
SCALE: 1/16" = 1'

FireLogix ENGINEERING, LTD.

FINAL AS-BUILT DRAWINGS

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: REP	CHECKED BY: REP	ISSUE DATE: JUNE 2013	
DRAWN BY: RSB		SOLICITATION NO.: W912HN-09-X-5107	
SUBMITTED BY: STOA ARCHITECTS		CONTRACT NO.: W912HN-10-D-0048 T.O. 0007	
FILE NAME: FA-101.DWG		CATEGORY CODE:	
SIZE: 22" x 34"	PLOT SCALE: 1/16" = 1'-0"	PLOT DATE: 5/4/2015 7:13:28 AM	

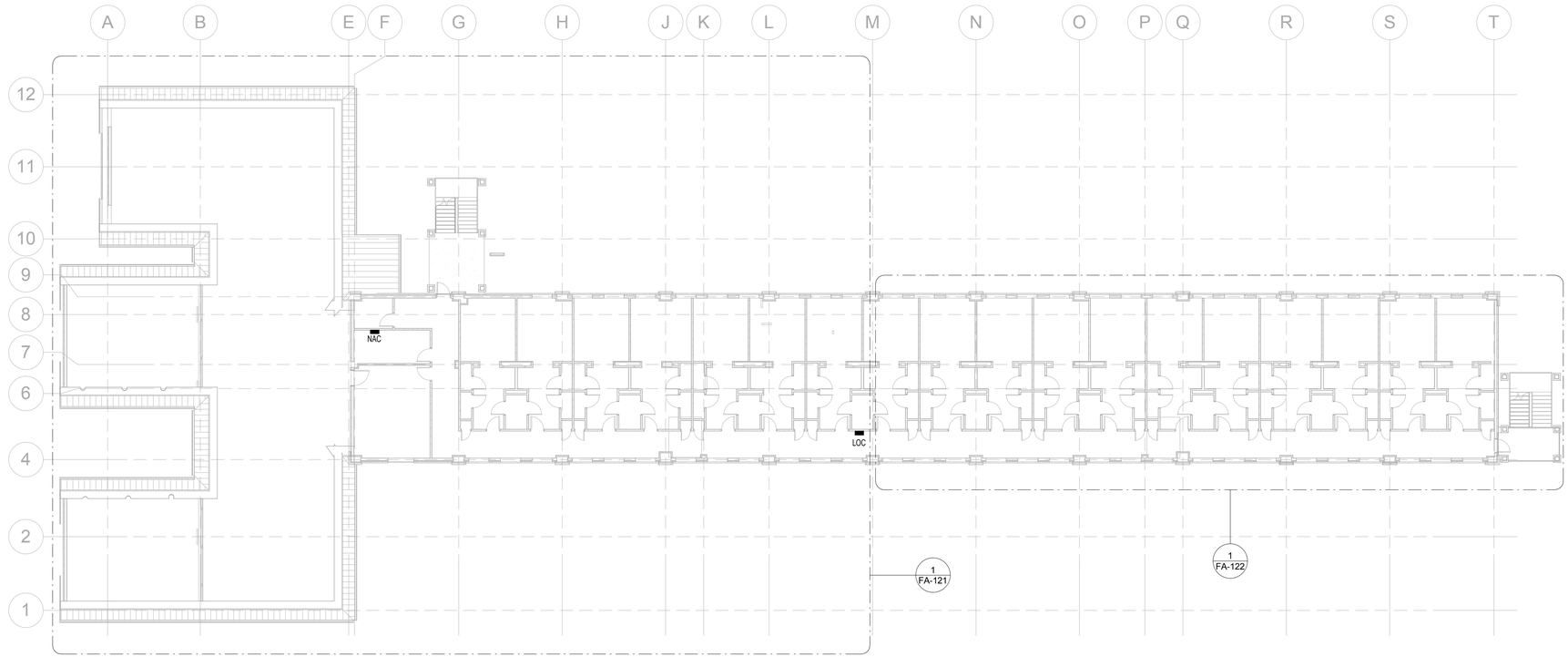
US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003584

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
OVERALL 1ST FLOOR FA/MNS PLAN

PLATE REFERENCE NUMBER
FA-101
SHEET 137

74278- FA-101-
C:\Users\bpatrick\Documents\RRR_RB_DMMF-CON_bpatrick.rvt



1 FA-102

OVERALL 2ND FLOOR FA/MNS PLAN

1/16" = 1'-0"

THIS PLAN IS TO ORIENT THE USER AND SHOW LOCATIONS OF MAIN PANELS SUCH AS FACU, LOC, AND SNAC PANELS. SEE DETAIL PLANS REFERENCED FOR COMPLETE LAYOUT.

FIRE ALARM / MNS SYMBOLS

- MANUAL PULL STATION
- SMOKE DETECTOR
- STROBE - CEILING - CLEAR
- STROBE - WALL - CLEAR
- STROBE - CEILING - AMBER
- STROBE - WALL - AMBER
- SPEAKER - WALL
- SPEAKER STROBE - WALL
- SPEAKER - CEILING
- SPEAKER STROBE - CEILING
- (AI) ADDRESSIBLE INPUT MODULE
- (AO) ADDRESSIBLE OUTPUT MODULE
- PANEL (SEE SUBSCRIPTS)

PANEL LABELS
ACU AUDIO CONTROL UNIT
FACU FIRE ALARM CONTROL UNIT
LOC LOCAL OPERATOR CONSOLE
NAC STROBE BOOSTER PANEL

DEVICE SUBSCRIPTS
HA HIGH AIR
LA LOW AIR
PIV POST INDICATOR VALVE
PS PRESSURE SWITCH
SS SMOKE ALARM W/SOUNDER BASE
TS TAMPER SWITCH
WF WATER FLOW SWITCH
WP WEATHERPROOF

SEE SHEET FP-001 FOR GENERAL NOTES

PLAN NORTH

8' 0' 8' 16'
SCALE: 1/16" = 1'

FireLogix ENGINEERING, LTD.

FINAL AS-BUILT DRAWINGS

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: REP	CHECKED BY: REP	ISSUE DATE: JUNE 2013	
DRAWN BY: RBB		SOLICITATION NO.: W912HN-09-X-5107	
SUBMITTED BY: STOA ARCHITECTS		CONTRACT NO.: W912HN-10-D-0049 T.O. 0007	
FILE NAME: FA-102.DWG		CATEGORY CODE:	
SIZE: 22" x 34"	PLOT SCALE: 1/16" = 1'-0"	PLOT DATE: 5/4/2015 7:13:33 AM	

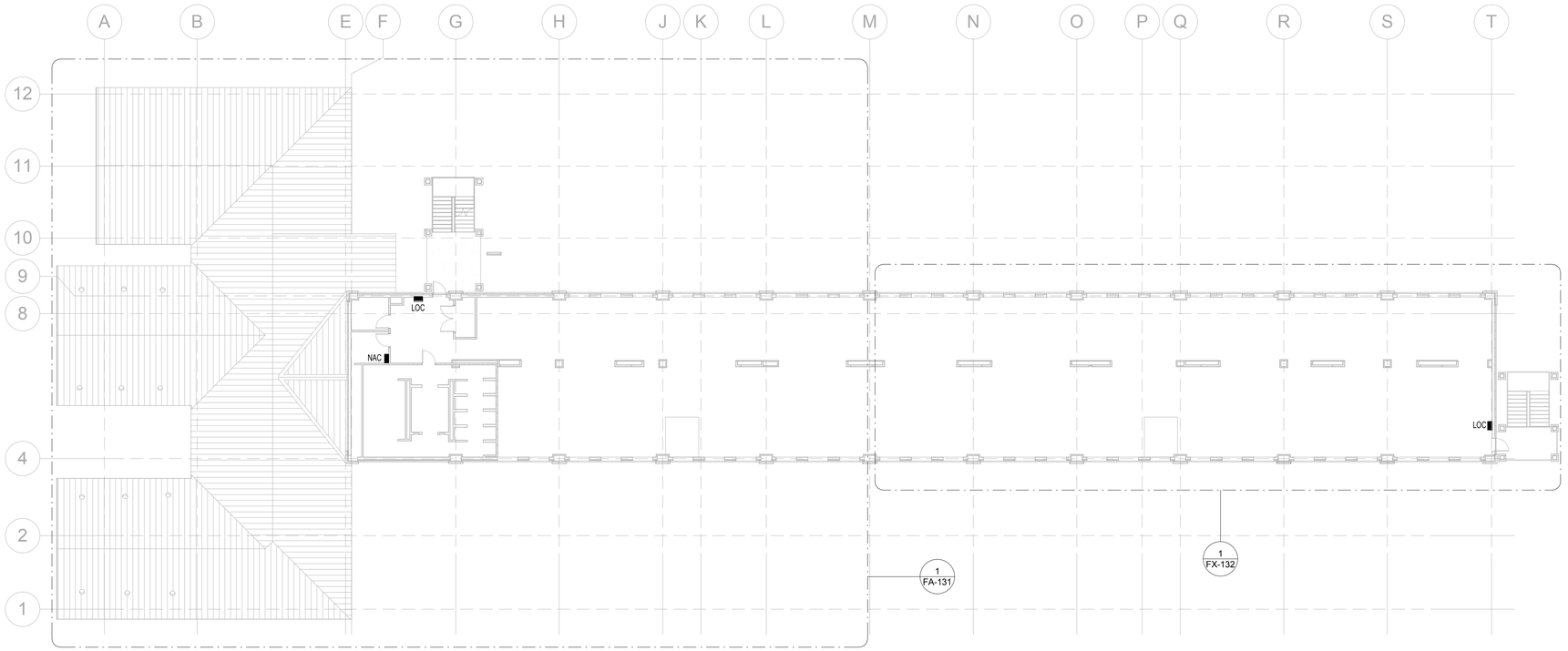
US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
OVERALL 2ND FLOOR FA/MNS PLAN

PLATE REFERENCE NUMBER
FA-102
SHEET 138

74278- FA-102-
C:\Users\bpatrick\Documents\RRR_RB_DMMF-CON_bpatrick.rvt



1 FA-103 OVERALL 3RD FLOOR FA/MNS PLAN

1/16" = 1'-0"

THIS PLAN IS TO ORIENT THE USER AND SHOW LOCATIONS OF MAIN PANELS SUCH AS FACU, LOC, AND SNAC PANELS. SEE DETAIL PLANS REFERENCED FOR COMPLETE LAYOUT.

FIRE ALARM / MNS SYMBOLS

- MANUAL PULL STATION
- SMOKE DETECTOR
- STROBE - CEILING - CLEAR
- STROBE - WALL - CLEAR
- STROBE - CEILING - AMBER
- STROBE - WALL - AMBER
- SPEAKER - WALL
- SPEAKER STROBE - WALL
- SPEAKER - CEILING
- SPEAKER STROBE - CEILING
- (AI) ADDRESSIBLE INPUT MODULE
- (AO) ADDRESSIBLE OUTPUT MODULE
- PANEL (SEE SUBSCRIPTS)

PANEL LABELS
ACU AUDIO CONTROL UNIT
FACU FIRE ALARM CONTROL UNIT
LOC LOCAL OPERATOR CONSOLE
NAC STROBE BOOSTER PANEL

DEVICE SUBSCRIPTS
HA HIGH AIR
LA LOW AIR
PIV POST INDICATOR VALVE
PS PRESSURE SWITCH
SS SMOKE ALARM W/SOUNDER BASE
TS TAMPER SWITCH
WF WATER FLOW SWITCH
WP WEATHERPROOF

SEE SHEET FP-001 FOR GENERAL NOTES

PLAN NORTH

8' 0' 8' 16'
SCALE: 1/16" = 1'

FireLogix ENGINEERING, LTD.

FINAL AS-BUILT DRAWINGS

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: REP	CHECKED BY: REP	ISSUE DATE: JUNE 2013	
DRAWN BY: Author		SOLICITATION NO.: W912HN-09-X-5107	
SUBMITTED BY: STOA ARCHITECTS		CONTRACT NO.: W912HN-10-D-0049 T.O. 0007	
		FILE NAME: FA-103.rvt	CATEGORY CODE:
SIZE: 22" x 34"	PLOT SCALE: 1/16" = 1'-0"	PLOT DATE: 5/4/2015 7:13:37 AM	

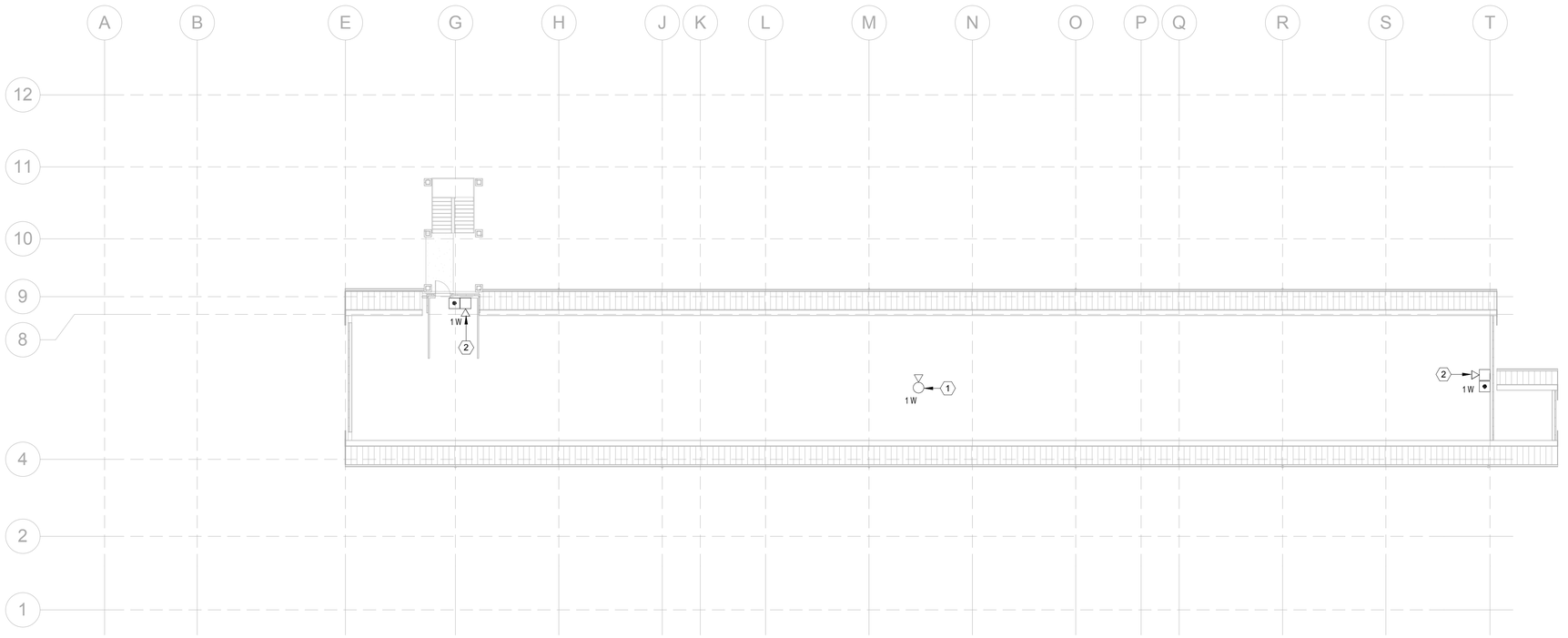
US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
OVERALL 3RD FLOOR FA/MNS PLAN

PLATE REFERENCE NUMBER
FA-103
SHEET 139

74278- FA-103-
C:\Users\bpatrick\Documents\RRR_RB_DMMF-CON_bpatrick.rvt



1 FA-104 ATTIC FIRE ALARM PLAN

1/16" = 1'-0"

FIRE ALARM / MNS SYMBOLS

- MANUAL PULL STATION
- (S) SMOKE DETECTOR
- STROBE - CEILING - CLEAR
- STROBE - WALL - CLEAR
- STROBE - CEILING - AMBER
- STROBE - WALL - AMBER
- SPEAKER - WALL
- SPEAKER STROBE - WALL
- SPEAKER - CEILING
- SPEAKER STROBE - CEILING
- (AI) ADDRESSIBLE INPUT MODULE
- (AO) ADDRESSIBLE OUTPUT MODULE
- PANEL (SEE SUBSCRIPTS)

PANEL LABELS
ACU AUDIO CONTROL UNIT
FACU FIRE ALARM CONTROL UNIT
LOC LOCAL OPERATOR CONSOLE
NAC STROBE BOOSTER PANEL

DEVICE SUBSCRIPTS
HA HIGH AIR
LA LOW AIR
PIV POST INDICATOR VALVE
PS PRESSURE SWITCH
SS SMOKE ALARM W/SOUNDER BASE
TS TAMPER SWITCH
WF WATER FLOW SWITCH
WP WEATHERPROOF

SHEET NOTES

1 PROVIDE SPEAKER IN AREA OF AIR HANDLING UNITS TO NOTIFY MAINTENANCE EMPLOYEES

2 SPACE IS NOT NORMALLY OCCUPIED. PROVIDE LOCAL NOTIFICATION FOR MAINTENANCE EMPLOYEES.

FINAL AS-BUILT DRAWINGS

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: REP
DRAWN BY: Author
CHECKED BY: REP
SUBMITTED BY: STOA ARCHITECTS
FILE NAME: RENOVATIONS
SIZE: 22" x 34"
PLOT SCALE: 1/16" = 1'-0"
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
PLOT DATE: 5/4/2015 7:13:40 AM

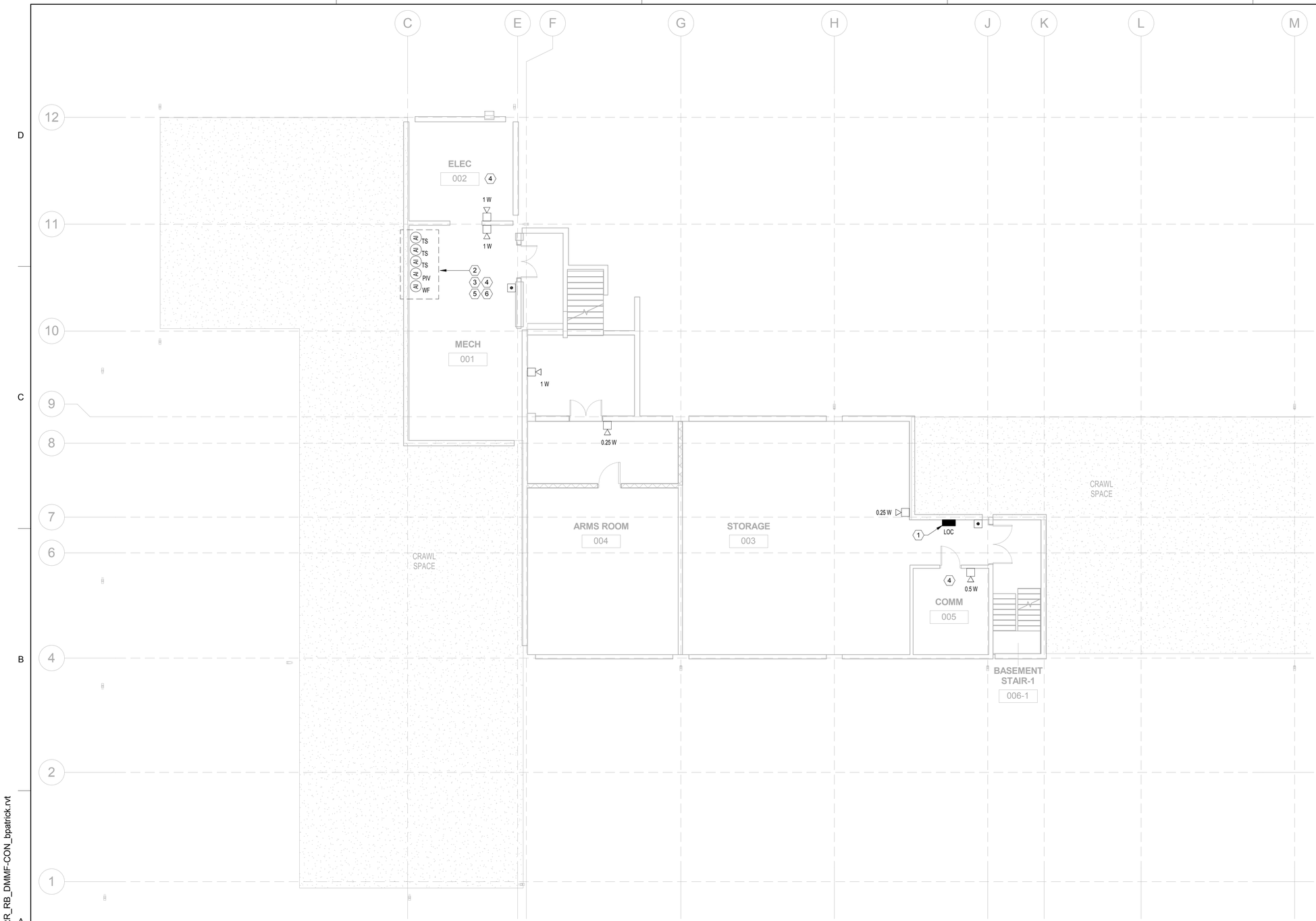
US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
OVERALL ATTIC PLAN

PLATE REFERENCE NUMBER
FA-104
SHEET 140

74278- FA-104-
C:\Users\bpatrick\Documents\RRR_RB_DMMF-CON_bpatrick.rvt



FIRE ALARM / MNS SYMBOLS

- MANUAL PULL STATION
- SMOKE DETECTOR
- STROBE - CEILING - CLEAR
- STROBE - WALL - CLEAR
- STROBE - CEILING - AMBER
- STROBE - WALL - AMBER
- SPEAKER - WALL
- SPEAKER STROBE - WALL
- SPEAKER - CEILING
- SPEAKER STROBE - CEILING
- (AI) ADDRESSIBLE INPUT MODULE
- (AO) ADDRESSIBLE OUTPUT MODULE
- PANEL (SEE SUBSCRIPTS)

PANEL LABELS
ACU AUDIO CONTROL UNIT
FACU FIRE ALARM CONTROL UNIT
LOC LOCAL OPERATOR CONSOLE
NAC STROBE BOOSTER PANEL

DEVICE SUBSCRIPTS
HA HIGH AIR
LA LOW AIR
PIV POST INDICATOR VALVE
PS PRESSURE SWITCH
SS SMOKE ALARM W/SOUNDER BASE
TS TAMPER SWITCH
WF WATER FLOW SWITCH
WP WEATHERPROOF

SHEET NOTES

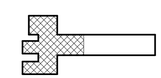
1. SEE SHEET FA-501 FOR DETAIL OF LOC.
2. MONITOR FIRE SPRINKLER SYSTEM MAIN RISER AND ZONE CONTROL ASSEMBLY.
3. AMBIENT SOUND LEVELS ARE NOT EXPECTED TO EXCEED 95 DBA IN MECHANICAL ROOMS. PROVIDE A SOUND LEVEL WHICH EXCEEDS AMBIENT SOUND BY A MINIMUM OF 15 DBA. IF AMBIENT SOUND LEVEL EXCEEDS 95 DBA PROVIDE STROBES (AMBER AND CLEAR).
4. STROBES ARE NOT REQUIRED IN MECHANICAL, ELECTRICAL, OR COMM ROOMS PER ARCHITECTURAL BARRIERS ACT (ABA) SECTION F203.6
5. PROVIDE CARBON MONOXIDE DETECTION THIS AREA.
6. PIV VALVE IS LOCATED SOUTH OF THE BUILDING. SEE CIVIL SITE UTILITY PLAN (CU101) FOR LOCATION.

PLAN NORTH

SEE SHEET FP-001 FOR GENERAL NOTES

4' 0' 4' 8'
SCALE: 1/8" = 1'

KEY PLAN



FINAL AS-BUILT DRAWINGS

1 FA-110 PARTIAL BASEMENT FA/MNS PLAN SOUTH
1/8" = 1'-0"

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: REP	ISSUE DATE: JUNE 2013		
DRAWN BY: RSB	CHECKED BY: REP	SOLICITATION NO.: W912HN-09-X-5107	
SUBMITTED BY: STOA ARCHITECTS		CONTRACT NO.: W912HN-10-D-0048 T.O. 0007	
FILE NAME: FILE NAME.RVT		CATEGORY CODE:	
SIZE: 22" x 34"	PLOT SCALE: As indicated	PLOT DATE: 5/4/2015 7:13:41 AM	

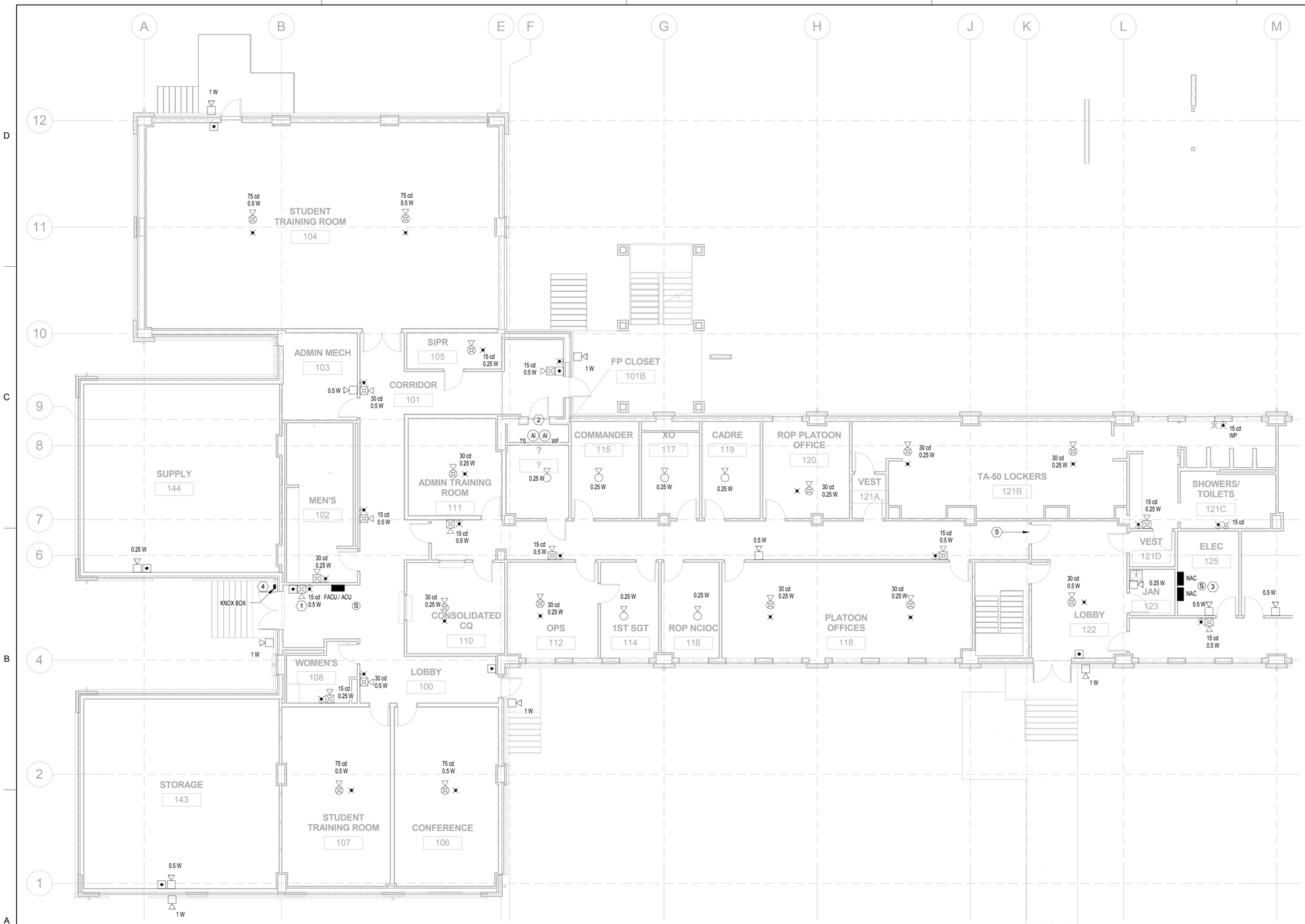
US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
PARTIAL BASEMENT FA/MNS PLAN SOUTH

PLATE REFERENCE NUMBER
FA-110
SHEET 141

74278- FA-110-
C:\Users\bpatrick\Documents\RRR_RB_DMMF-CON_bpatrick.rvt



FIRE ALARM / MNS SYMBOLS

- MANUAL PULL STATION
- SMOKE DETECTOR
- STROBE - CEILING - CLEAR
- STROBE - WALL - CLEAR
- STROBE - CEILING - AMBER
- STROBE - WALL - AMBER
- SPEAKER - WALL
- SPEAKER STROBE - WALL
- SPEAKER - CEILING
- SPEAKER STROBE - CEILING
- (AI) ADDRESSIBLE INPUT MODULE
- (AO) ADDRESSIBLE OUTPUT MODULE
- PANEL (SEE SUBSCRIPTS)

PANEL LABELS
ACU AUDIO CONTROL UNIT
FACU FIRE ALARM CONTROL UNIT
LOC LOCAL OPERATOR CONSOLE
NAC STROBE BOOSTER PANEL

DEVICE SUBSCRIPTS
HA HIGH AIR
LA LOW AIR
PIV POST INDICATOR VALVE
PS PRESSURE SWITCH
SS SMOKE ALARM W/SOUNDER BASE
TS TAMPER SWITCH
WF WATER FLOW SWITCH
WP WEATHERPROOF

SHEET NOTES

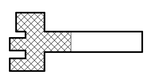
1. DISABLE SPEAKER WHEN MICROPHONE AT ADJACENT FACU OR LOC IS IN USE.
2. MONITOR FIRE SPRINKLER ZONE CONTROL ASSEMBLY TAMPER AND FLOW SWITCHES.
3. NAC BOOSTER PANEL LOCATION. PROVIDE NUMBER OF PANELS NECESSARY TO IMPLEMENT THE STROBE LAYOUT AS SHOWN.
4. PROVIDE A NEW KNOX BOX AS INDICATED. COORDINATE AND ORDER BOX THROUGH THE BASE FIRE DEPARTMENT. SUPERVISE KNOX BOX AT THE FIRE ALARM CONTROL UNIT.
5. PROVIDE MAGNETIC DOOR HOLD OPEN FOR THIS DOOR.

PLAN NORTH

SEE SHEET FP-001 FOR GENERAL NOTES

4' 0' 4' 8'
SCALE: 1/8" = 1'

KEY PLAN



FINAL AS-BUILT DRAWINGS

1 FA-111 PARTIAL 1ST FLOOR FA/MNS PLAN SOUTH
1/8" = 1'-0"

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
PLOT DATE: 5/4/2015 7:13:44 AM

DESIGNED BY: REP
DRAWN BY: RSB
CHECKED BY: REP
SUBMITTED BY: STOA ARCHITECTS
FILE NAME: FA-111.DWG
SIZE: 22" x 34"
PLOT SCALE: As indicated

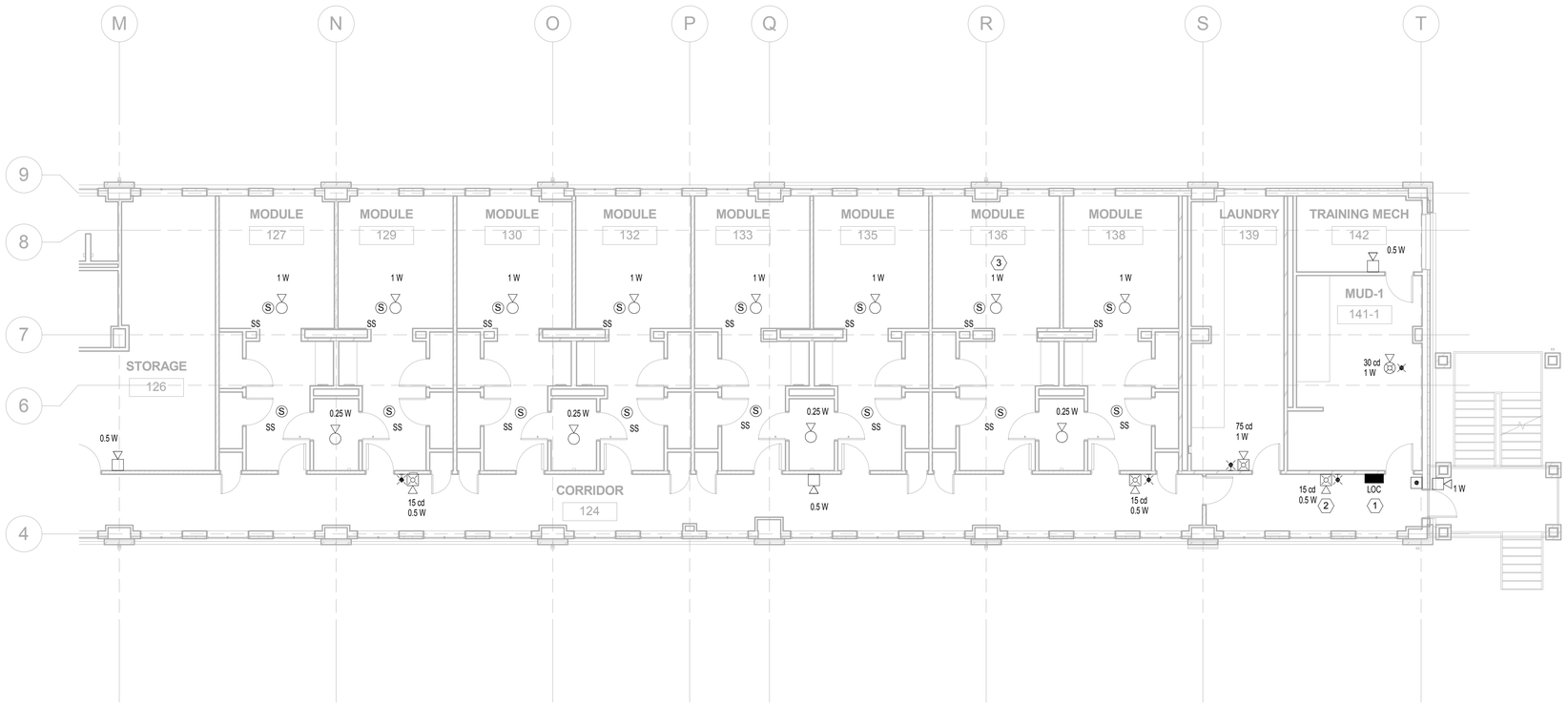
US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
PARTIAL 1ST FLOOR FA/MNS PLAN SOUTH

PLATE REFERENCE NUMBER
FA-111
SHEET 142

74278- FA-111-
C:\Users\bpatrick\Documents\RRR_RB_DMMF-CON_bpatrick.rvt



1 FA-112 PARTIAL 1ST FLOOR FA/MNS PLAN NORTH

1/8" = 1'-0"

FIRE ALARM / MNS SYMBOLS

- MANUAL PULL STATION
- SMOKE DETECTOR
- STROBE - CEILING - CLEAR
- STROBE - WALL - CLEAR
- STROBE - CEILING - AMBER
- STROBE - WALL - AMBER
- SPEAKER - WALL
- SPEAKER STROBE - WALL
- SPEAKER - CEILING
- SPEAKER STROBE - CEILING
- AI ADDRESSIBLE INPUT MODULE
- AO ADDRESSIBLE OUTPUT MODULE
- PANEL (SEE SUBSCRIPTS)

PANEL LABELS
ACU AUDIO CONTROL UNIT
FACU FIRE ALARM CONTROL UNIT
LOC LOCAL OPERATOR CONSOLE
NAC STROBE BOOSTER PANEL

DEVICE SUBSCRIPTS
HA HIGH AIR
LA LOW AIR
PIV POST INDICATOR VALVE
PS PRESSURE SWITCH
SS SMOKE ALARM W/SOUNDER BASE
TS TAMPER SWITCH
WF WATER FLOW SWITCH
WP WEATHERPROOF

SHEET NOTES

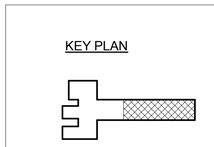
1. SEE SHEET FA-501 FOR DETAIL OF LOC.
2. DISABLE SPEAKER WHEN MICROPHONE AT ADJACENT FACU OR LOC IS IN USE.
3. ALL SMOKE ALARMS WITHIN A SINGLE UNIT ARE INTERCONNECTED AND SOUND ALARM THROUGHOUT THE LIVING UNIT UPON THE DETECTION OF SMOKE. TYPICAL ALL SLEEPING AREAS.

PLAN NORTH

SEE SHEET FP-001 FOR GENERAL NOTES

4' 0' 4' 8'
SCALE: 1/8" = 1'

KEY PLAN



FireLogix ENGINEERING, LTD.

FINAL AS-BUILT DRAWINGS

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: REP	CHECKED BY: REP	ISSUE DATE: JUNE 2013	
DRAWN BY: RSB	SUBMITTED BY: STOA ARCHITECTS	SOLICITATION NO.: W912HN-09-X-5107	
FILE NAME: FA-112.DGN		CONTRACT NO.: W912HN-10-D-0048 T.O. 0007	
SIZE: 22" x 34"	PLOT SCALE: As indicated	CATEGORY CODE:	
		PLOT DATE: 5/4/2015 7:13:48 AM	

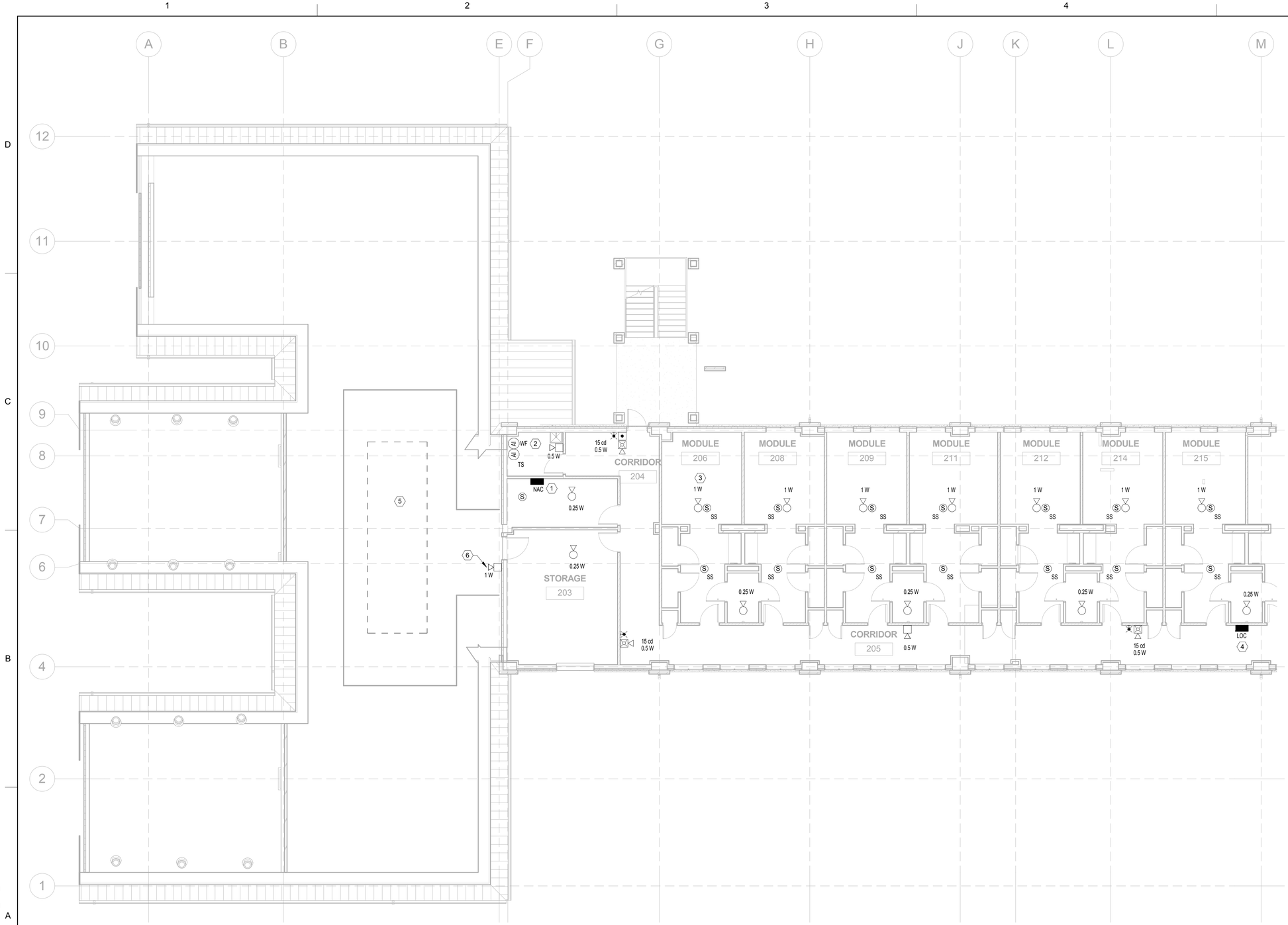
US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
PARTIAL 1ST FLOOR FA/MNS PLAN NORTH

PLATE REFERENCE NUMBER
FA-112
SHEET 143

74278- FA-112-
C:\Users\bpatrick\Documents\RRR_RB_DMMF-CON_bpatrick.rvt



FIRE ALARM / MNS SYMBOLS

- MANUAL PULL STATION
- SMOKE DETECTOR
- STROBE - CEILING - CLEAR
- STROBE - WALL - CLEAR
- STROBE - CEILING - AMBER
- STROBE - WALL - AMBER
- SPEAKER - WALL
- SPEAKER STROBE - WALL
- SPEAKER - CEILING
- SPEAKER STROBE - CEILING
- (AI) ADDRESSIBLE INPUT MODULE
- (AO) ADDRESSIBLE OUTPUT MODULE
- PANEL (SEE SUBSCRIPTS)

PANEL LABELS
ACU AUDIO CONTROL UNIT
FACU FIRE ALARM CONTROL UNIT
LOC LOCAL OPERATOR CONSOLE
NAC STROBE BOOSTER PANEL

DEVICE SUBSCRIPTS
HA HIGH AIR
LA LOW AIR
PIV POST INDICATOR VALVE
PS PRESSURE SWITCH
SS SMOKE ALARM W/SOUNDER BASE
TS TAMPER SWITCH
WF WATER FLOW SWITCH
WP WEATHERPROOF

SHEET NOTES

1. NAC BOOSTER PANEL LOCATION. PROVIDE NUMBER OF PANELS NECESSARY TO IMPLEMENT THE STROBE LAYOUT AS SHOWN.
2. MONITOR FIRE SPRINKLER ZONE CONTROL ASSEMBLY TAMPER AND FLOW SWITCHES.
3. ALL SMOKE ALARMS WITHIN A SINGLE UNIT ARE INTERCONNECTED AND SOUND ALARM THROUGHOUT THE LIVING UNIT UPON THE DETECTION OF SMOKE. TYPICAL ALL SLEEPING AREAS.
4. SEE SHEET FA-501 FOR DETAIL OF LOC.
5. MECHANICAL UNIT, SEE MECHANICAL DRAWINGS.
6. SPACE IS NOT NORMALLY OCCUPIED. PROVIDE LOCAL NOTIFICATION FOR MAINTENANCE EMPLOYEES.

PLAN NORTH

SEE SHEET FP-001 FOR GENERAL NOTES

4' 0' 4' 8'
SCALE: 1/8" = 1'

KEY PLAN



FINAL AS-BUILT DRAWINGS

FireLogix ENGINEERING, LTD.

1 FA-121
PARTIAL 2ND FLOOR FA/MNS PLAN SOUTH
1/8" = 1'-0"

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: REP	ISSUE DATE: JUNE 2013		
DRAWN BY: RSB	CHECKED BY: REP	SOLICITATION NO.: W912HN-09-X-5107	
SUBMITTED BY: STOA ARCHITECTS		CONTRACT NO.: W912HN-10-D-0049 T.O. 0007	
FILE NAME: FA-121.DGN		CATEGORY CODE:	
SIZE: 22" x 34"	PLOT SCALE: As indicated	PLOT DATE: 5/4/2015 7:13:52 AM	

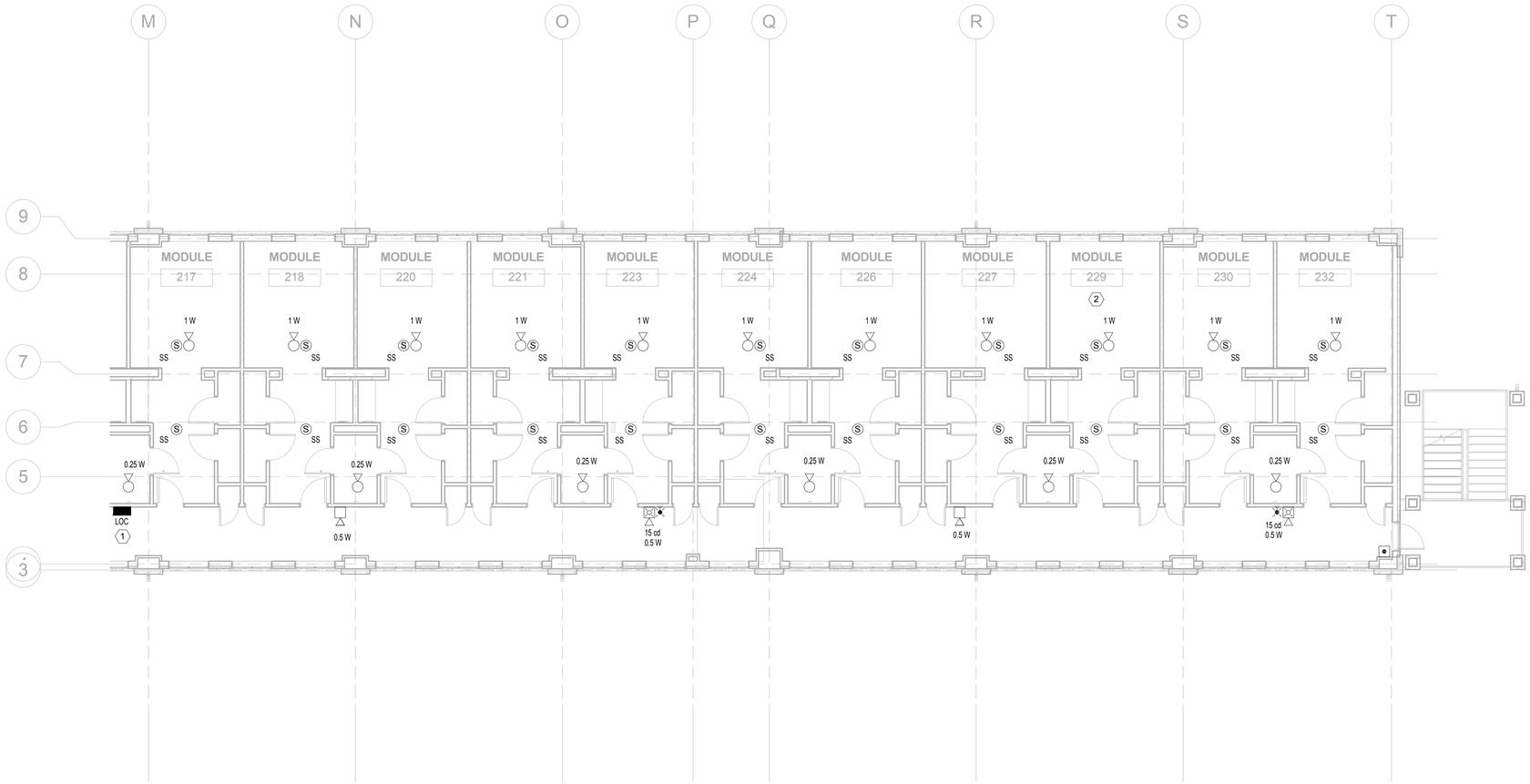
US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
PARTIAL 2ND FLOOR FA/MNS PLAN SOUTH

PLATE REFERENCE NUMBER
FA-121
SHEET 144

74278- FA-121-
C:\Users\bpatrick\Documents\RRR_RB_DMMF-CON_bpatrick.rvt



FIRE ALARM / MNS SYMBOLS

- MANUAL PULL STATION
- SMOKE DETECTOR
- STROBE - CEILING - CLEAR
- STROBE - WALL - CLEAR
- STROBE - CEILING - AMBER
- STROBE - WALL - AMBER
- SPEAKER - WALL
- SPEAKER STROBE - WALL
- SPEAKER - CEILING
- SPEAKER STROBE - CEILING
- AI ADDRESSIBLE INPUT MODULE
- AO ADDRESSIBLE OUTPUT MODULE
- PANEL (SEE SUBSCRIPTS)

PANEL LABELS
ACU AUDIO CONTROL UNIT
FACU FIRE ALARM CONTROL UNIT
LOC LOCAL OPERATOR CONSOLE
NAC STROBE BOOSTER PANEL

DEVICE SUBSCRIPTS
HA HIGH AIR
LA LOW AIR
PIV POST INDICATOR VALVE
PS PRESSURE SWITCH
SS SMOKE ALARM W/SOUNDER BASE
TS TAMPER SWITCH
WF WATER FLOW SWITCH
WP WEATHERPROOF

SHEET NOTES

1. SEE SHEET FA-501 FOR DETAIL OF LOC.
2. ALL SMOKE ALARMS WITHIN A SINGLE UNIT ARE INTERCONNECTED AND SOUND ALARM THROUGHOUT THE LIVING UNIT UPON THE DETECTION OF SMOKE. TYPICAL ALL SLEEPING AREAS.

1 / FA-122 PARTIAL 2ND FLOOR FA/MNS PLAN NORTH

1/8" = 1'-0"

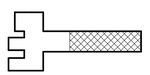
PLAN NORTH

SEE SHEET FP-001 FOR GENERAL NOTES

4' 0' 4' 8'

SCALE: 1/8" = 1'

KEY PLAN



FireLogix ENGINEERING, LTD.

FINAL AS-BUILT DRAWINGS

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
DESIGNED BY: REP
DRAWN BY: RSB
CHECKED BY: REP
SUBMITTED BY: STOA-ARCHITECTS
CATEGORY CODE:
FILE NAME: FA-122.DWG
PLOT DATE: 5/4/2015 7:13:57 AM
SIZE: 22" x 34"
PLOT SCALE: As Indicated

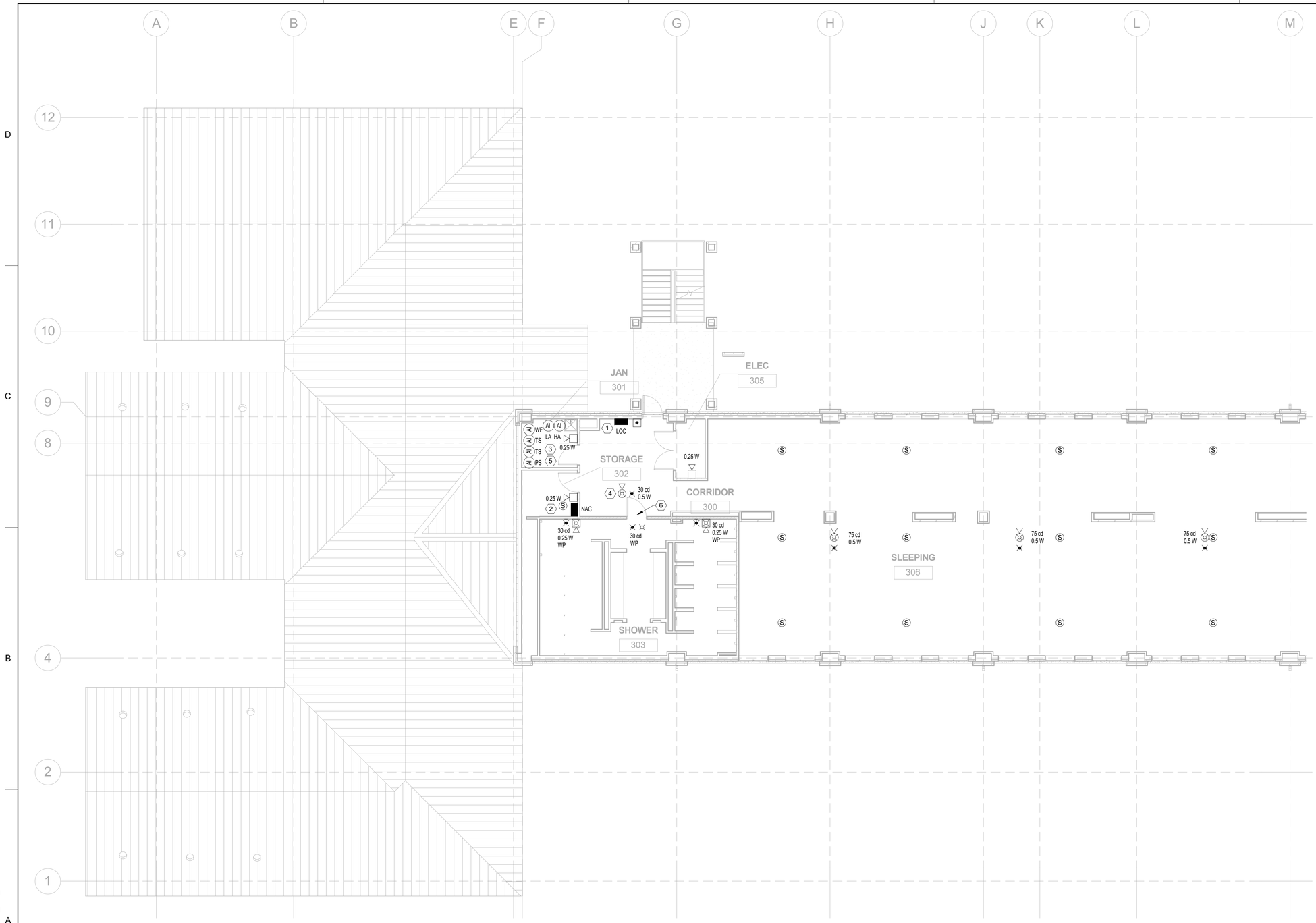
US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
PARTIAL 2ND FLOOR FA/MNS PLAN NORTH

PLATE REFERENCE NUMBER
FA-122
SHEET 145

74278- FA-122-
C:\Users\bpatrick\Documents\RRR_RB_DMMF-CON_bpatrick.rvt



FIRE ALARM / MNS SYMBOLS

- MANUAL PULL STATION
- SMOKE DETECTOR
- STROBE - CEILING - CLEAR
- STROBE - WALL - CLEAR
- STROBE - CEILING - AMBER
- STROBE - WALL - AMBER
- SPEAKER - WALL
- SPEAKER STROBE - WALL
- SPEAKER - CEILING
- SPEAKER STROBE - CEILING
- ADDRESSIBLE INPUT MODULE
- ADDRESSIBLE OUTPUT MODULE
- PANEL (SEE SUBSCRIPTS)

PANEL LABELS

ACU	AUDIO CONTROL UNIT
FACU	FIRE ALARM CONTROL UNIT
LOC	LOCAL OPERATOR CONSOLE
NAC	STROBE BOOSTER PANEL

DEVICE SUBSCRIPTS

HA	HIGH AIR
LA	LOW AIR
PIV	POST INDICATOR VALVE
PS	PRESSURE SWITCH
SS	SMOKE ALARM W/SOUNDER BASE
TS	TAMPER SWITCH
WF	WATER FLOW SWITCH
WP	WEATHERPROOF

SHEET NOTES

1. SEE SHEET FA-501 FOR DETAIL OF LOC.
2. NAC BOOSTER PANEL LOCATION. PROVIDE NUMBER OF PANELS NECESSARY TO IMPLEMENT THE STROBE LAYOUT AS SHOWN.
3. MONITOR FIRE SPRINKLER ZONE CONTROL ASSEMBLY TAMPER AND FLOW SWITCHES.
4. DISABLE SPEAKER WHEN MICROPHONE AT ADJACENT FACU OR LOC IS IN USE.
5. MONITOR DRY SPRINKLER SYSTEM LOW AIR, HIGH AIR, AND PRESSURE SWITCH.
6. PROVIDE MAGNETIC DOOR HOLD OPEN FOR THIS DOOR.

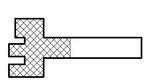
PLAN NORTH

SEE SHEET FP-001 FOR GENERAL NOTES

4' 0' 4' 8'

SCALE: 1/8" = 1'

KEY PLAN



1 / FA-131 PARTIAL 3RD FLOOR FA/MNS PLAN SOUTH

1/8" = 1'-0"

FireLogix ENGINEERING, LTD.

FINAL AS-BUILT DRAWINGS

US Army Corps of Engineers ®
SAVANNAH DISTRICT

APPR. | DATE | DESCRIPTION | MARK

ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D-0049 T.O. 0007
CATEGORY CODE:
PLOT DATE: 5/4/2015 7:14:00 AM
PLOT SCALE: As indicated
SIZE: 22" x 34"
FILE NAME: FA-131.DWG
DESIGNED BY: REP
DRAWN BY: RSB
CHECKED BY: REP
SUBMITTED BY: STOA ARCHITECTS

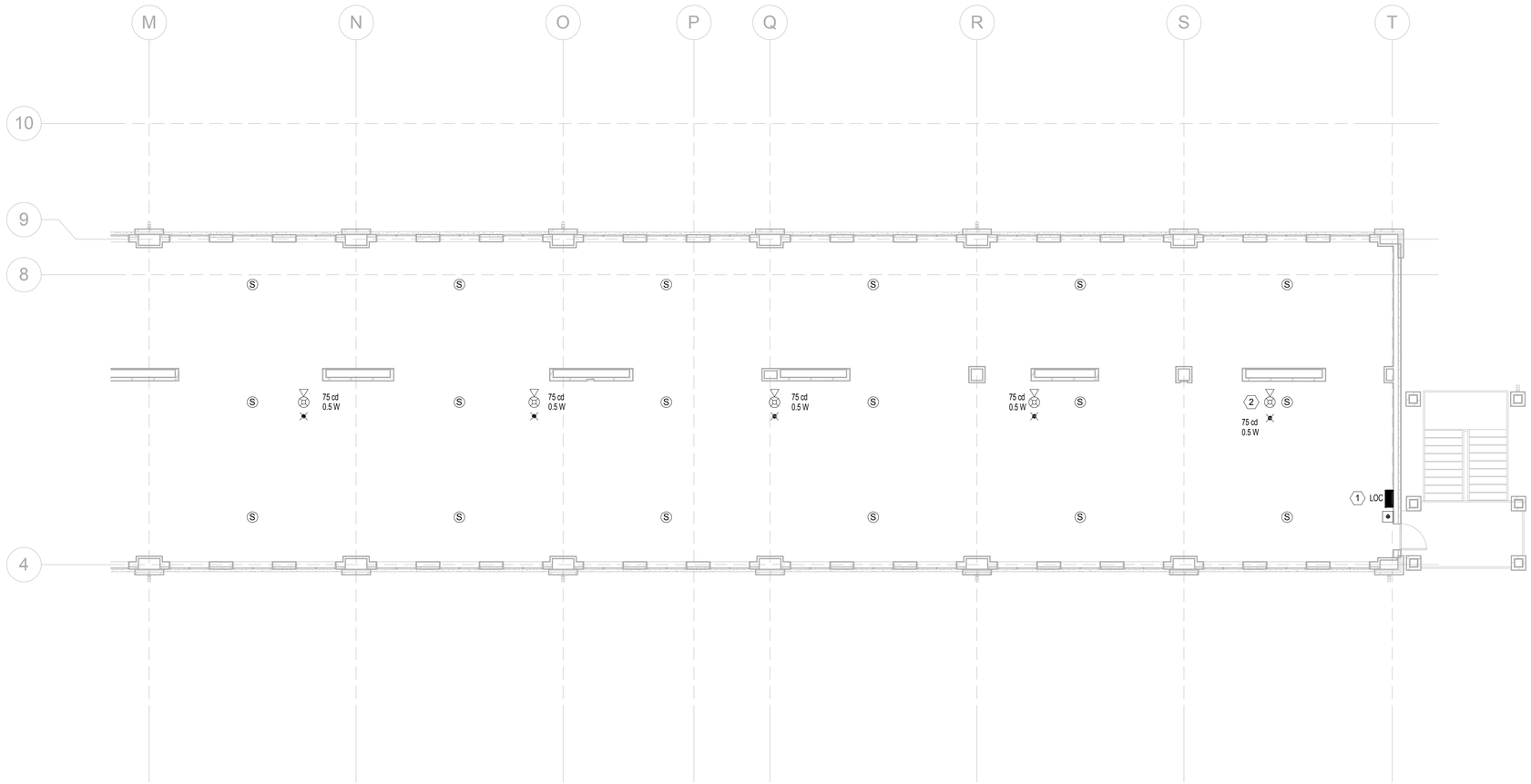
US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
PARTIAL 3RD FLOOR FA/MNS PLAN SOUTH

PLATE REFERENCE NUMBER
FA-131
SHEET 146

74278- FA-131-
C:\Users\bpatrick\Documents\RRR_RB_DMMF-CON_bpatrick.rvt



1 FA-132

PARTIAL 3RD FLOOR FA/MNS PLAN NORTH

1/8" = 1'-0"

FIRE ALARM / MNS SYMBOLS

- MANUAL PULL STATION
- (S) SMOKE DETECTOR
- STROBE - CEILING - CLEAR
- STROBE - WALL - CLEAR
- STROBE - CEILING - AMBER
- STROBE - WALL - AMBER
- SPEAKER - WALL
- SPEAKER STROBE - WALL
- SPEAKER - CEILING
- SPEAKER STROBE - CEILING
- (AI) ADDRESSIBLE INPUT MODULE
- (AO) ADDRESSIBLE OUTPUT MODULE
- PANEL (SEE SUBSCRIPTS)

PANEL LABELS
ACU AUDIO CONTROL UNIT
FACU FIRE ALARM CONTROL UNIT
LOC LOCAL OPERATOR CONSOLE
NAC STROBE BOOSTER PANEL

DEVICE SUBSCRIPTS
HA HIGH AIR
LA LOW AIR
PIV POST INDICATOR VALVE
PS PRESSURE SWITCH
SS SMOKE ALARM W/SOUNDER BASE
TS TAMPER SWITCH
WF WATER FLOW SWITCH
WP WEATHERPROOF

SHEET NOTES

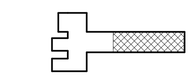
1 SEE SHEET FA-501 FOR DETAIL OF LOC.
2 DISABLE SPEAKER WHEN MICROPHONE AT ADJACENT FACU OR LOC IS IN USE.

PLAN NORTH

SEE SHEET FP-001 FOR GENERAL NOTES

4' 0' 4' 8'
SCALE: 1/8" = 1'

KEY PLAN



FireLogix ENGINEERING, LTD.

FINAL AS-BUILT DRAWINGS

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: REP	ISSUE DATE: JUNE 2013		
DRAWN BY: RBB	CHECKED BY: REP	SOLICITATION NO.: W912HN-09-X-5107	
SUBMITTED BY: STOA ARCHITECTS		CONTRACT NO.: W912HN-10-D-0049 T.O. 0007	
FILE NAME: FA-132.dwg		CATEGORY CODE:	
SIZE: 22" x 34"	PLOT SCALE: As indicated	PLOT DATE: 5/4/2015 7:14:03 AM	

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

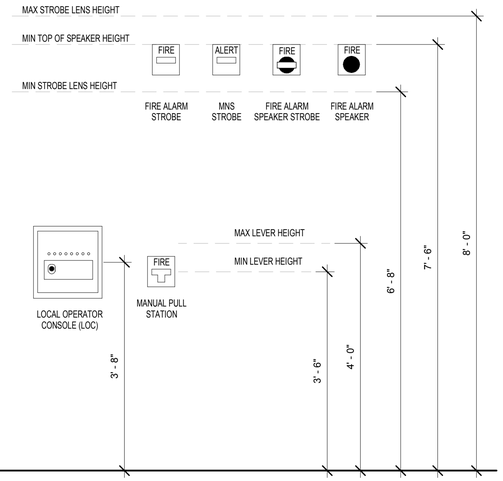
RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
PARTIAL 3RD FLOOR FA/MNS PLAN NORTH

PLATE REFERENCE NUMBER
FA-132
SHEET 147

74278- FA-132-
C:\Users\bpatrick\Documents\RRR_RB_DMMF-CON_bpatrick.rvt

GENERAL MOUNTING HEIGHT NOTES

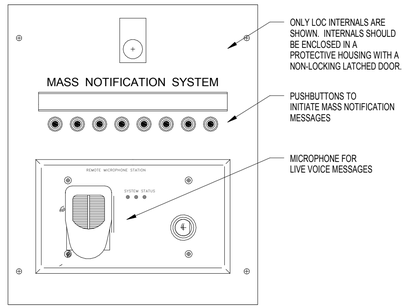
1. MOUNT LOC WITH HOUSING CENTERED AT 3'8".
2. MOUNT MANUAL PULL STATION SO THAT OPERABLE LEVER IS BETWEEN 42" AND 48" ABOVE FINISHED FLOOR.
3. MOUNT STROBES SO THAT LENS IS NO MORE THAN 96" AFF AND NO LESS THAN 80" AFF.
4. MOUNT SPEAKERS SO THAT TOP OF APPLIANCE IS A MINIMUM OF 90" AFF. ENSURE THAT SPEAKER IS AT LEAST 6" BELOW CEILING.
5. MOUNT SPEAKER STROBES IN ACCORDANCE WITH STROBE MOUNTING REQUIREMENTS.



1 FA-501

FIRE ALARM MOUNTING ELEVATIONS

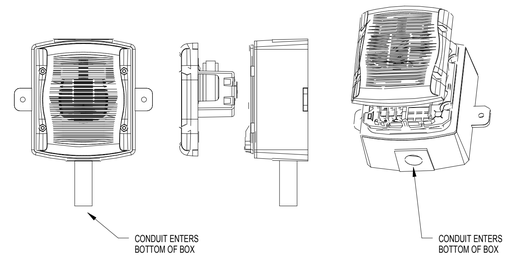
NTS



2 FA-501

DETAIL - LOC

NTS



3 FA-501

DETAIL - WEATHERPROOF SPEAKER

NTS

FINAL AS-BUILT DRAWINGS

FireLogix ENGINEERING, LTD.

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

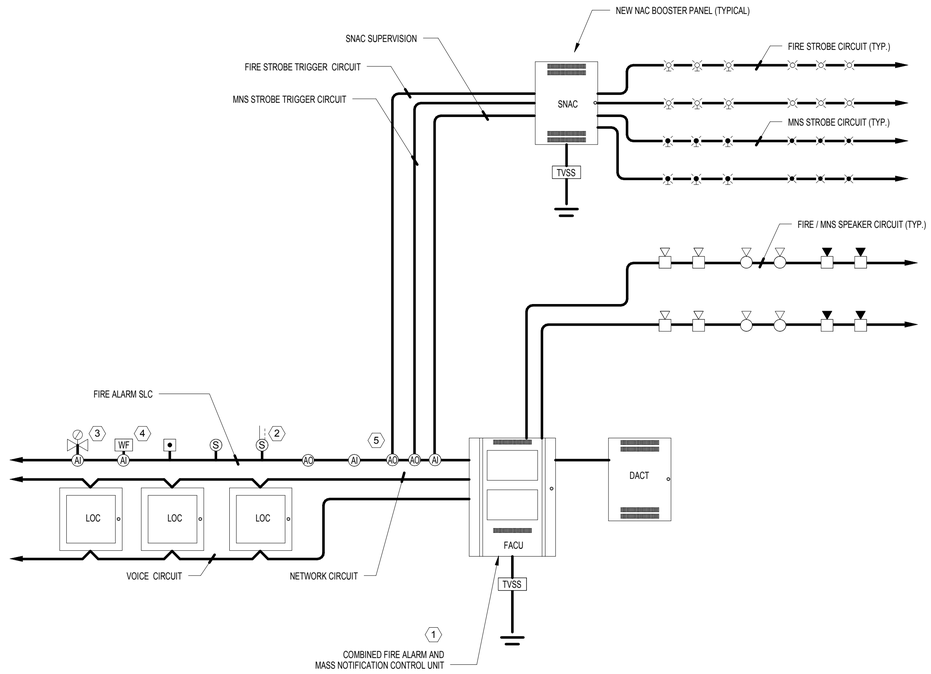
STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

DESIGNED BY: REP	CHECKED BY: REP	ISSUE DATE: JUNE 2013	
DRAWN BY: RSB		SOLICITATION NO.: W912HN-09-X-5107	
SUBMITTED BY: STOA ARCHITECTS		CONTRACT NO.: W912HN-10-D-0048 T.O. 0007	
FILE NAME: FA501.DWG		CATEGORY CODE:	
SIZE: 22" x 34"	PLOT SCALE: As Indicated	PLOT DATE: 5/4/2015 7:14:05 AM	

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
FIRE ALARM DETAILS

PLATE REFERENCE NUMBER
FA-501
SHEET 148

74278- FA-501-
C:\Users\bpatrick\Documents\RRR_RB_DMMF-CON_bpatrick.rvt



1 FA-601

TYPICAL RISER DIAGRAM

NTS

		FACU DISPLAY			FIRE SAFETY			DACT TRANSMISSION SUPERVISING STATION							EVAC			MNS						
		10	11	12	30	31	32	40	41	42	43	44	45		50	51	52	60	61	62	63	64	65	66
		AUDIO/VISUAL ALARM INDICATION BY DEVICE	AUDIO/VISUAL SUPERVISORY BY DEVICE	AUDIO/VISUAL TROUBLE INDICATION BY DEVICE	HVAC SHUTDOWN OF AFFECTED UNIT	RELEASE DOOR HOLD OPENS		XMIT ALARM SIGNAL - PULL STATION TO SS	XMIT ALARM SIGNAL - FLOW SWITH TO SS	XMIT ALARM SIGNAL - DUCT DETECTOR TO SS	XMIT ALARM SIGNAL - SMOKE DETECTOR TO SS	XMIT SUPERVISORY SIGNAL TO SS	XMIT TROUBLE SIGNAL TO SS		FIRE ALARM STROBES THROUGHOUT	GEN. EVAC MESSAGE THROUGHOUT	SOUND SMOKE ALARMS THROUGHOUT UNIT	ENERGIZE AMBER STROBES	DE-ENERGIZE FIRE ALARM STROBES	SILENCE LOC MICROPHONES	SILENCE FIRE ALARM EVACUATION MESSAGE	PRE-REC MESSAGE THROUGHOUT	LIVE VOICE THROUGHOUT	SUPERVISORY SIGNAL IF OVERIDING FIRE ALARM
	ALARM SIGNALS																							
10	MANUAL PULL STATION	X				X		X							X	X								
11	WATERFLOW SWITCH	X				X			X						X	X								
12	DRY SPRINKLER PRESSURE SWITCH	X				X				X					X	X								
13	SMOKE DETECTOR - GENERAL	X				X					X				X	X								
14	SMOKE DETECTOR - DUCT TYPE	X			X	X					X				X	X								
	SUPERVISORY SIGNALS																							
20	TAMPER SWITCH		X									X												
21	SMOKE ALARM (SLEEPING AREAS)		X									X					X							
23	KNOX BOX		X									X												
24	CARBON MONOXIDE SENSOR		X									X												
25	DRY SPRINKLER LOW AIR		X									X												
26	DRY SPRINKLER HIGH AIR		X									X												
	TROUBLE SIGNALS																							
30	FIRE ALARM AC POWER FAILURE			X									X											
31	FIRE ALARM SYSTEM LOW/MISSING BATTERY			X									X											
32	SHORT CIRCUIT			X									X											
33	OPEN CIRCUIT			X									X											
34	GROUND FAULT			X									X											
35	SUPERVISED COMPONENT FAILURE			X									X											
36	SUPERVISING STATION CONNECTION FAULT			X																				
	MASS NOTIFICATION SIGNALS																							
40	ACU MICROPHONE ACTIVATION		X									X						X	X	X	X		X	X
41	LOC MICROPHONE ACTIVATION		X									X						X	X		X		X	X
42	ACU PRE-REC MESSAGE SWITCH		X									X						X	X		X	X		X
43	LOC PRE-REC MESSAGE SWITCH		X									X						X	X		X	X		X
44	WIDE AREA MNS - PRE-REC MESSAGE		X									X						X	X		X	X		X
45	WIDE AREA MNS - LIVE VOICE		X									X						X	X		X		X	X

NOTE: EACH MNS MESSAGE TO HAVE AN INDIVIDUAL ADDRESS

2 FA-601

INPUT / OUTPUT MATRIX

NTS

FINAL AS-BUILT DRAWINGS

FireLogix ENGINEERING, LTD.

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D-0049 T.O. 0007
CATEGORY CODE:
PLOT DATE: 5/4/2015 7:14:07 AM
PLOT SCALE: As Indicated
SIZE: 22" x 34"
FILE NAME: FA601.DWG

DESIGNED BY: REP
DRAWN BY: KSB
CHECKED BY: REP
SUBMITTED BY: STOA ARCHITECTS

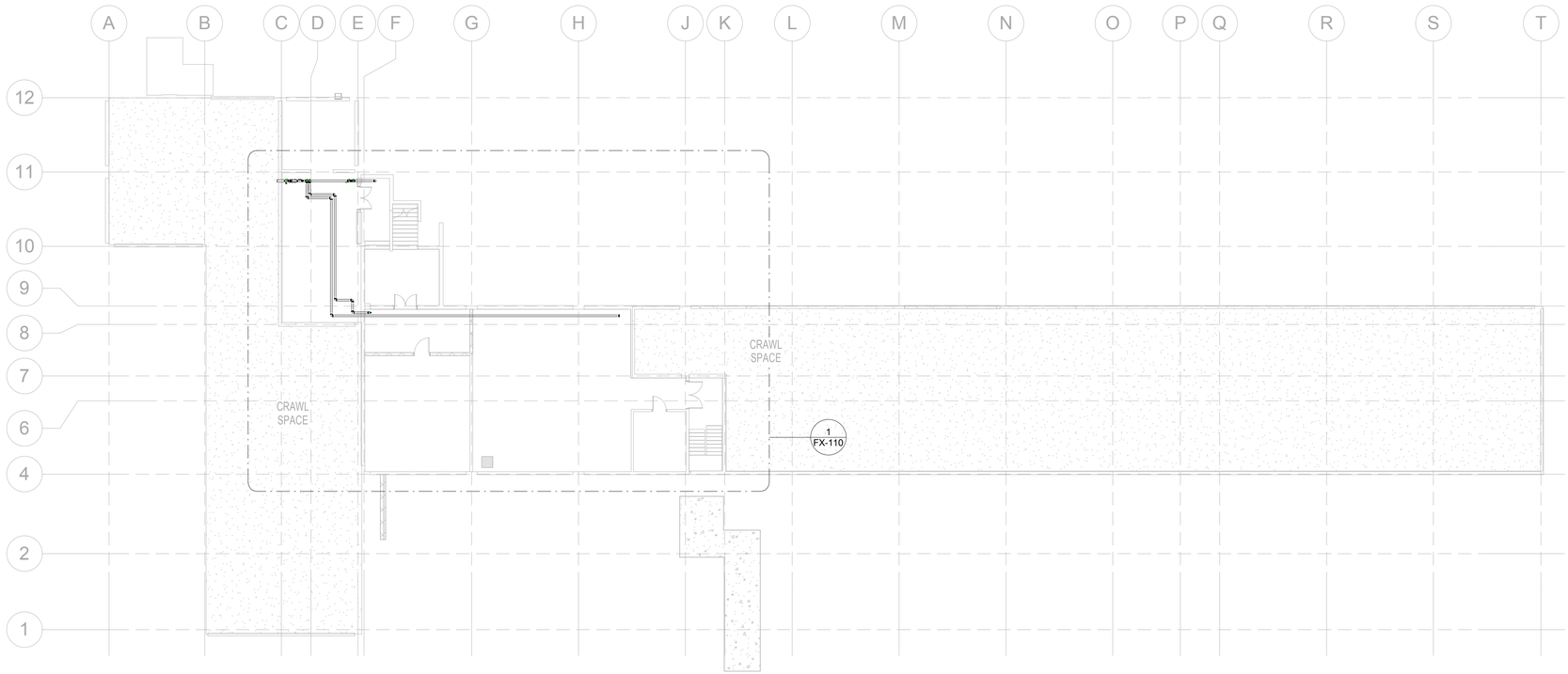
US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003954

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
FIRE ALARM RISER DIAGRAM

PLATE REFERENCE NUMBER
FA-601
SHEET 149

74278- FA-601-
C:\Users\bpatrick\Documents\RRR_RB_DMMF-CON_bpatrick.rvt



1 FX-100 OVERALL BASEMENT FIRE SPRINKLER PLAN

1/16" = 1'-0"

THIS PLAN IS TO ORIENT THE USER.
SEE PARTIAL PLANS REFERENCED FOR COMPLETE LAYOUT.

SEE SHEET FP-001 FOR GENERAL NOTES

PLAN NORTH

8' 0' 8' 16'

SCALE: 1/16" = 1'

FireLogix ENGINEERING, LTD.

FINAL AS-BUILT DRAWINGS

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: REP
DRAWN BY: RSB
CHECKED BY: REP
SUBMITTED BY: STOA-ARCHITECTS
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D0048 T.O. 0007
CATEGORY CODE:
FILE NAME: R_FX100.DWG
SIZE: 22" x 34"
PLOT SCALE: 1/16" = 1'-0"
PLOT DATE: 5/4/2015 7:14:40 AM

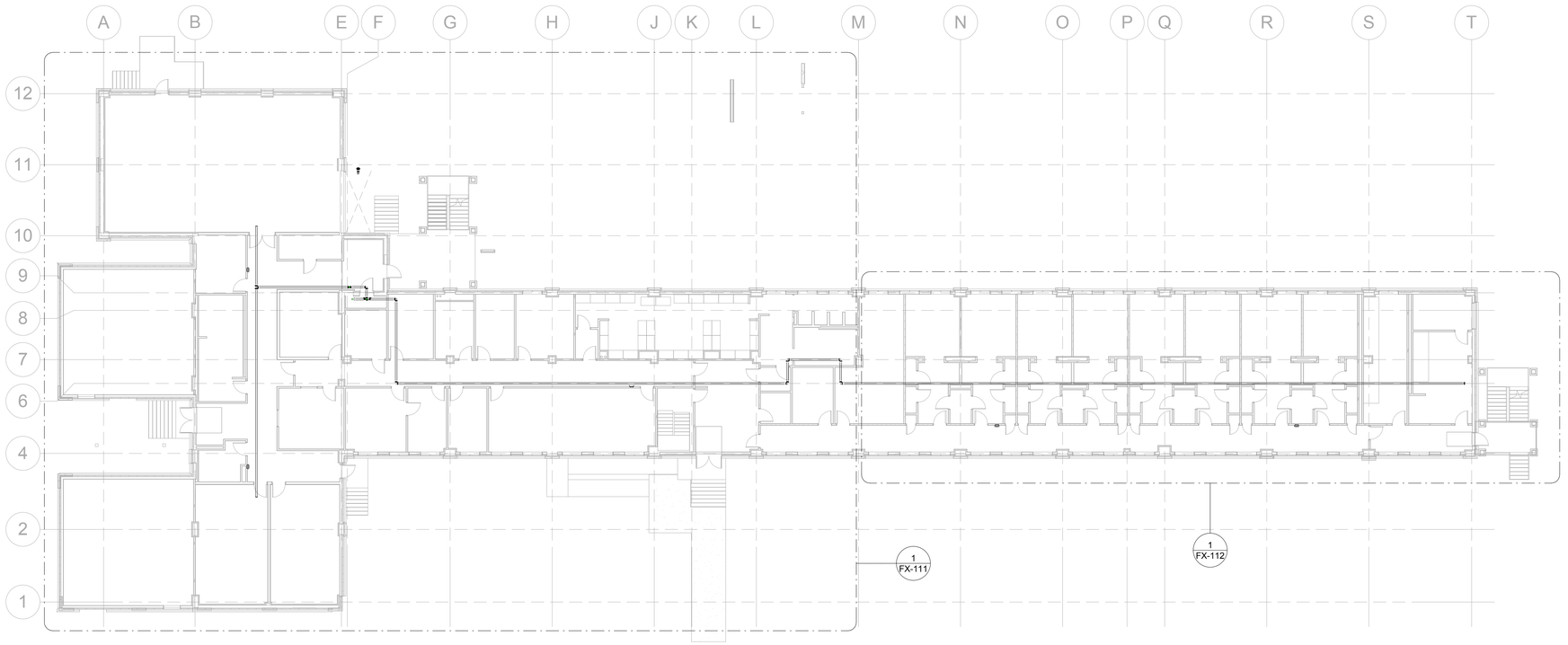
US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
OVERALL BASEMENT FIRE SPRINKLER PLAN

PLATE REFERENCE NUMBER
FX-100
SHEET 150

74278- FX-100-
C:\Users\bpatrick\Documents\RRR_RB_DMMF-CON_bpatrick.rvt



1 FX-101 OVERALL 1ST FLOOR FIRE SPRINKLER PLAN

1/16" = 1'-0"

THIS PLAN IS TO ORIENT THE USER.
SEE PARTIAL PLANS REFERENCED FOR COMPLETE LAYOUT.

SEE SHEET FP-001 FOR GENERAL NOTES

PLAN NORTH

8' 0' 8' 16'

SCALE: 1/16" = 1'

FireLogix ENGINEERING, LTD.

FINAL AS-BUILT DRAWINGS

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

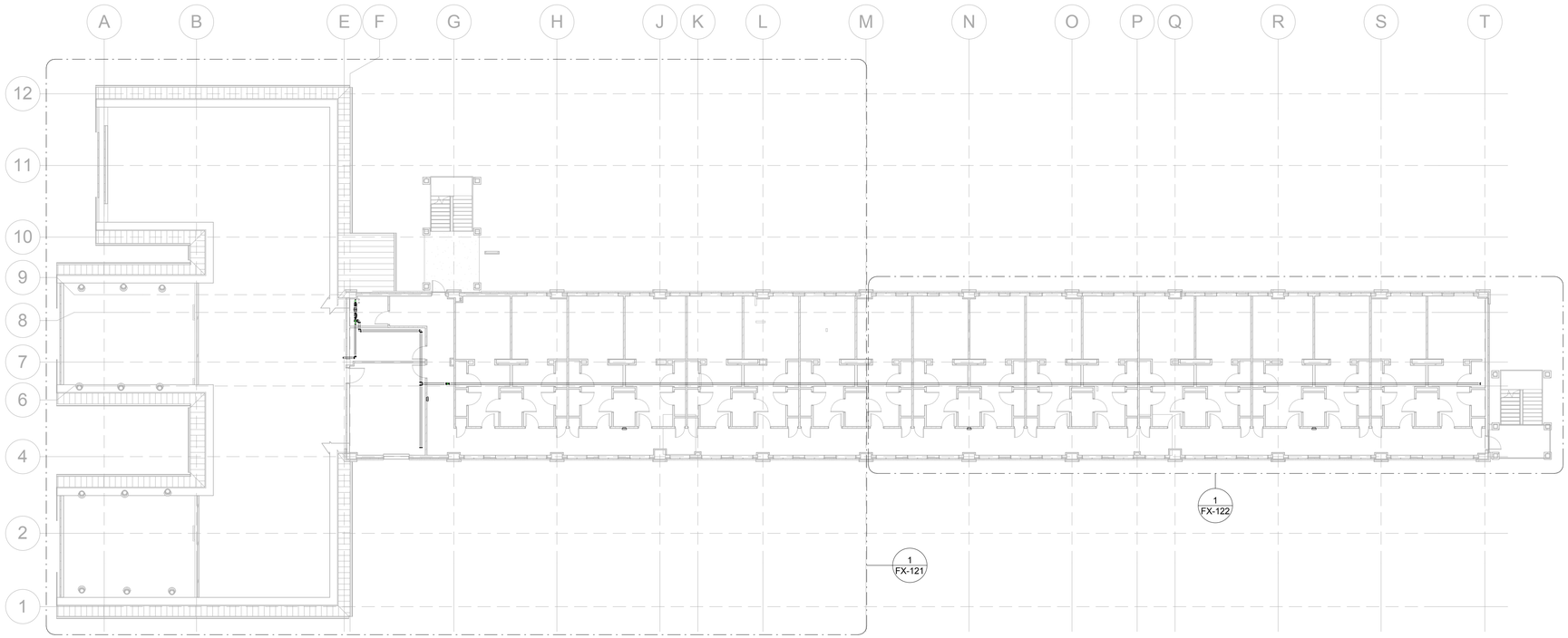
STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

DESIGNED BY: REP
DRAWN BY: RBB
CHECKED BY: REP
SUBMITTED BY: STOA ARCHITECTS
FILE NAME: FX-101.DWG
SIZE: 22" x 34"
PLOT SCALE: 1/16" = 1'-0"
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D-0049 T.O. 0007
CATEGORY CODE:
PLOT DATE: 5/4/2015 7:14:46 AM

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
OVERALL 1ST FLOOR FIRE SPRINKLER PLAN

PLATE REFERENCE NUMBER
FX-101
SHEET 151

74278- FX-101-
C:\Users\bpatrick\Documents\RRR_RB_DMMF-CON_bpatrick.rvt



1 FX-102 OVERALL 2ND FLOOR FIRE SPRINKLER PLAN

1/16" = 1'-0"

THIS PLAN IS TO ORIENT THE USER.
SEE PARTIAL PLANS REFERENCED FOR
COMPLETE LAYOUT.

SEE SHEET FP-001
FOR GENERAL NOTES

PLAN NORTH

8' 0' 8' 16'
SCALE: 1/16" = 1'

FireLogix ENGINEERING, LTD.

FINAL AS-BUILT DRAWINGS

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

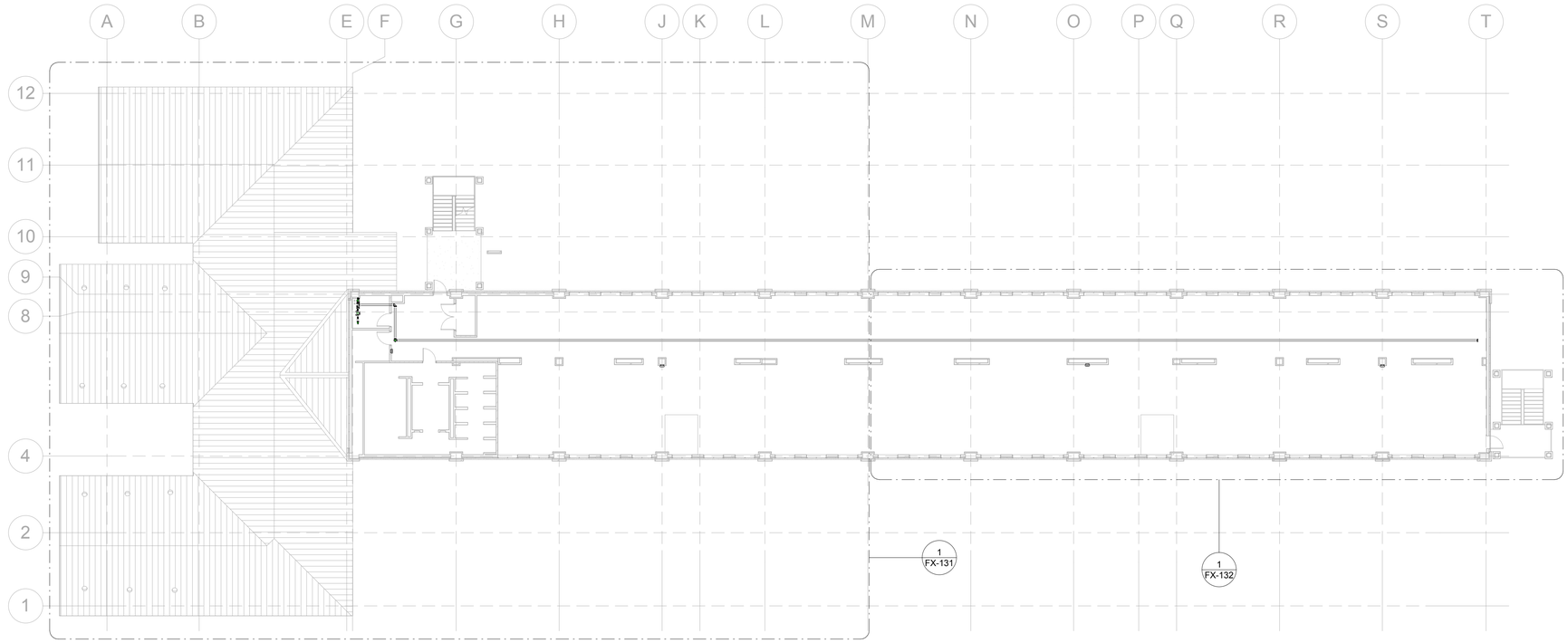
DESIGNED BY: REP
DRAWN BY: RSB
CHECKED BY: REP
SUBMITTED BY: STOA ARCHITECTS
FILE NAME: FX-102.DGN
SIZE: 22" x 34"
PLOT SCALE: 1/16" = 1'-0"
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D-0049 T.O. 0007
CATEGORY CODE:
PLOT DATE: 5/4/2015 7:14:51 AM

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
OVERALL 2ND FLOOR FIRE SPRINKLER PLAN

PLATE REFERENCE NUMBER
FX-102
SHEET 152

74278- FX-102-
C:\Users\bpatrick\Documents\RRR_RB_DMMF-CON_bpatrick.rvt



1 FX-103 OVERALL 3RD FLOOR FIRE SPRINKLER PLAN

1/16" = 1'-0"

THIS PLAN IS TO ORIENT THE USER.
SEE PARTIAL PLANS REFERENCED FOR
COMPLETE LAYOUT.

SEE SHEET FP-001
FOR GENERAL NOTES

8' 0' 8' 16'
SCALE: 1/16" = 1'

PLAN NORTH

FireLogix ENGINEERING, LTD.

FINAL AS-BUILT DRAWINGS

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: REP	CHECKED BY: REP	ISSUE DATE: JUNE 2013	
DRAWN BY: RBB		SOLICITATION NO.: W912HN-09-X-5107	
SUBMITTED BY: STOA ARCHITECTS		CONTRACT NO.: W912HN-10-D-0049 T.O. 0007	
FILE NAME: FX-103.DWG		CATEGORY CODE:	
SIZE: 22" x 34"	PLOT SCALE: 1/16" = 1'-0"	PLOT DATE: 5/4/2015 7:14:55 AM	

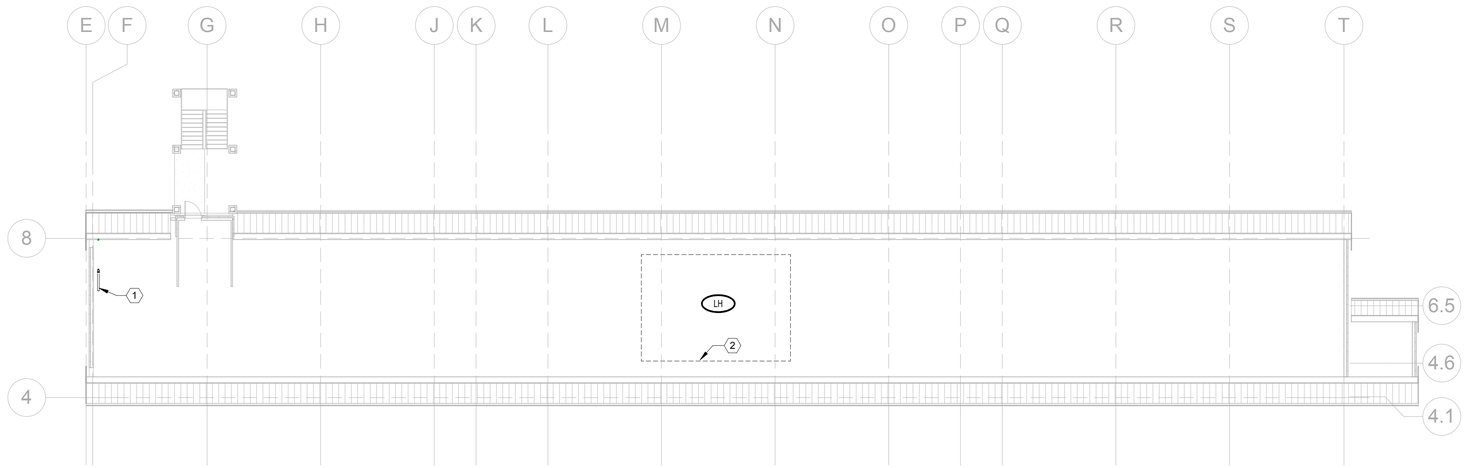
US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
OVERALL 3RD FLOOR FIRE SPRINKLER PLAN

PLATE REFERENCE NUMBER
FX-103
SHEET 153

74278- FX-103-
C:\Users\bpatrick\Documents\RRR_RB_DMMF-CON_bpatrick.rvt



1 FX-104 OVERALL ATTIC FIRE SPRINKLER PLAN

1/16" = 1'-0"

SHEET NOTES

1. DRY SPRINKLER SYSTEM TO SERVE ATTIC.
2. PROVIDE 18 INCH DEEP DRAFT CURTAIN AROUND HVAC EQUIPMENT AND PROVIDE SPRINKLER PROTECTION PER NFPA 13 - 8.15.1.5 FOR LOCALIZED PROTECTION.

SEE SHEET FP-001 FOR GENERAL NOTES

PLAN NORTH

4' 0' 4' 8'

SCALE: 1/8" = 1'

FireLogix ENGINEERING, LTD.

FINAL AS-BUILT DRAWINGS

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: REP	CHECKED BY: REP	ISSUE DATE: JUNE 2013	
DRAWN BY: RSB	SUBMITTED BY: STOA ARCHITECTS	SOLICITATION NO: W912HN-09-X-5107	
	FILE NAME: FX-104.DWG	CONTRACT NO: W912HN-10-D-0048 T.O. 0007	
SIZE: 22" x 34"	PLOT SCALE: 1/16" = 1'-0"	CATEGORY CODE:	
		PLOT DATE: 5/4/2015 7:14:58 AM	

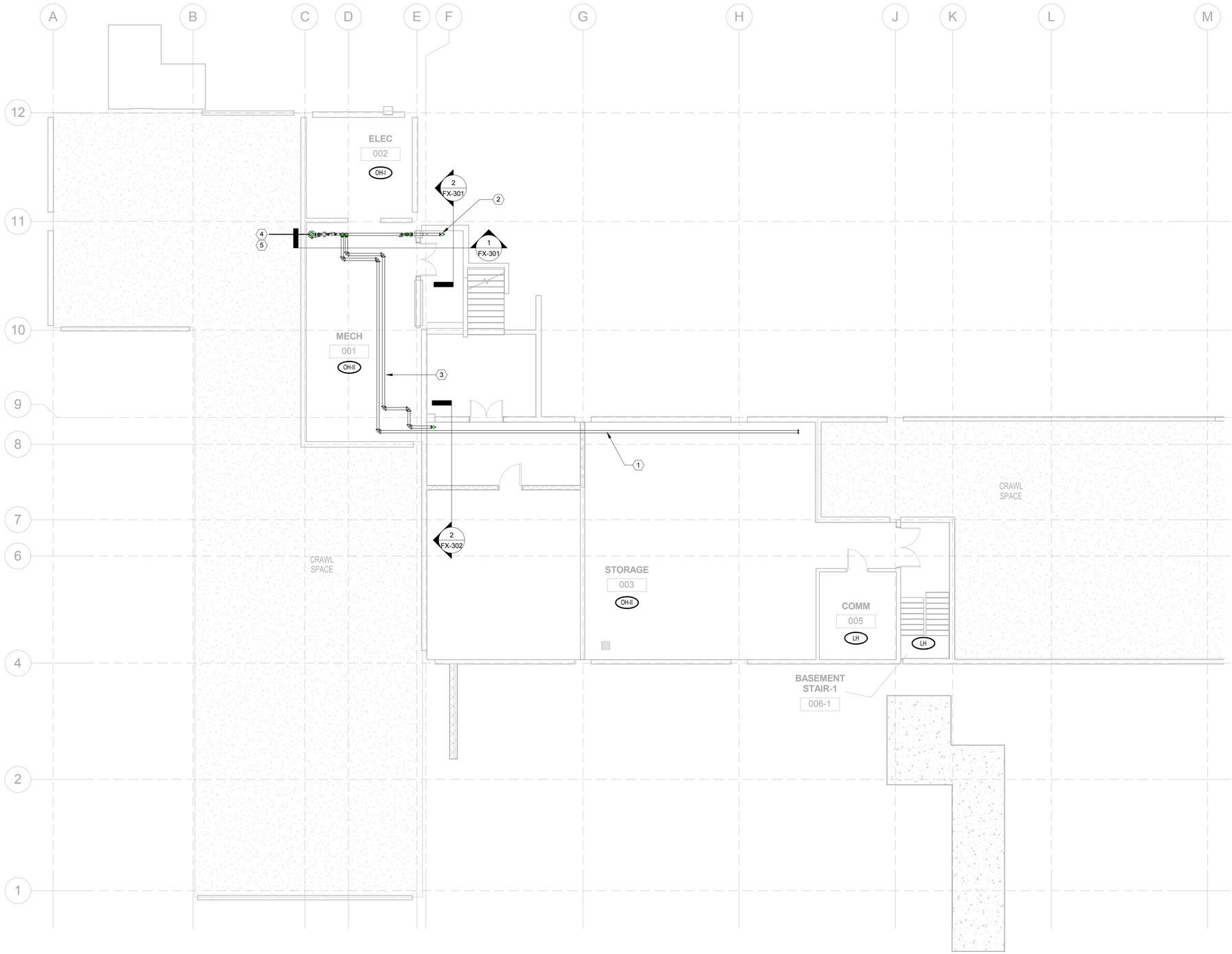
US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
OVERALL ATTIC FIRE SPRINKLER PLAN

PLATE REFERENCE NUMBER
FX-104
SHEET 154

74278- FX-104-
C:\Users\bpatrick\Documents\RRR_RB_DMMF-CON_bpatrick.rvt



SHEET NOTES

1	BASEMENT FIRE SPRINKLER MAIN.
2	UP FROM BASEMENT TO FEED FIRE DEPARTMENT CONNECTION.
3	FEED TO UPPER FLOORS.
4	6 INCH INCOMING FIRE LINE (SEE SITE UTILITY PLANS).
5	PIV VALVE IS LOCATED SOUTH OF THE BUILDING. SEE CIVIL SITE UTILITY PLAN CU101 FOR LOCATION. MONITORING OF THE PIV VALVE IS SHOWN ON FA PLAN FA-110.

PLAN NORTH

SEE SHEET FP-001 FOR GENERAL NOTES

4' 0' 4' 8'

SCALE: 1/8" = 1'

KEY PLAN

PARTIAL BASEMENT FIRE SPRINKLER PLAN SOUTH

1 / FX-110

1/8" = 1'-0"

FINAL AS-BUILT DRAWINGS

FireLogix ENGINEERING, LTD.

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: REP	ISSUE DATE: JUNE 2013
DRAWN BY: RSB	CHECKED BY: REP
SUBMITTED BY: STOA-ARCHITECTS	SOLICITATION NO.: W912HN-09-X-5107
FILE NAME: FX-110.DWG	CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
SIZE: 22" x 34"	CATEGORY CODE:
	PLOT SCALE: As Indicated
	PLOT DATE: 5/4/2015 7:15:01 AM

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
PARTIAL BASEMENT FIRE SPRINKLER PLAN SOUTH

PLATE REFERENCE NUMBER
FX-110
SHEET 155

74278- FX-110-
C:\Users\bpatrick\Documents\RRR_RB_DMMF-CON_bpatrick.rvt

SHEET NOTES

1	1ST FLOOR FIRE SPRINKLER MAIN.
2	FIRE DEPARTMENT CONNECTION.
3	UP FROM BASEMENT TO FEED FIRE DEPARTMENT CONNECTION.
4	1ST FLOOR ZONE CONTROL ASSY.

STUDENT TRAINING ROOM 104 LH
ADMIN MECH 103 OH-I
SIPR 105 LH
CORRIDOR 101 LH
COMMANDER 115
SHOWERS/ TOILETS 121C LH
SUPPLY 144 OH-II
MEN'S 102 LH
ADMIN TRAINING ROOM 111 LH
XO 117 LH
CADRE 119 LH
ROP PLATOON OFFICE 120 LH
TA-50 LOCKERS 121B OH-I
VEST 121A LH
VEST 121 LH
ELEC 125 OH-I
JAN 123 OH-I
LOBBY 100 LH
CONSOLIDATED CQ 110 LH
OPS 112 LH
1ST SGT 114 LH
ROP NCIOC 116 LH
PLATOON OFFICES 118 LH
BASEMENT STAIR-2 106-2 LH
LOBBY 122 LH
WOMEN'S 108 LH
STORAGE 143 OH-II
STUDENT TRAINING ROOM 107 LH
CONFERENCE 106 LH

PLAN NORTH

SEE SHEET FP-001 FOR GENERAL NOTES

4' 0' 4' 8'
SCALE: 1/8" = 1'

KEY PLAN

FINAL AS-BUILT DRAWINGS

PARTIAL 1ST FLOOR FIRE SPRINKLER PLAN SOUTH

1 / FX-111

1/8" = 1'-0"

74278- FX-111-
C:\Users\bpatrick\Documents\RRR_RB_DMMF-CON_bpatrick.rvt

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
PLOT DATE: 5/4/2015 7:15:07 AM

DESIGNED BY: REP
DRAWN BY: RBB
CHECKED BY: REP
SUBMITTED BY: STOA ARCHITECTS
FILE NAME: FX-111.DWG
SIZE: 22" x 34"
PLOT SCALE: As indicated

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2013 STOA ARCHITECTS
FL LIC #AA0003564

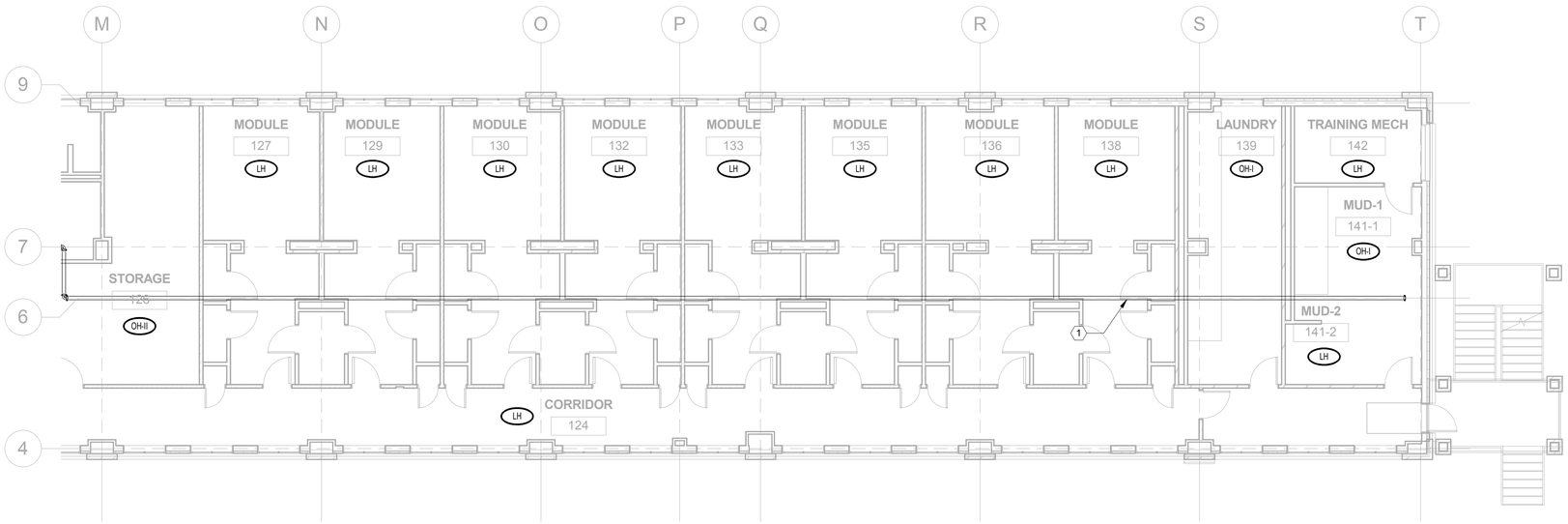
RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
PARTIAL 1ST FLOOR FIRE SPRINKLER PLAN SOUTH

PLATE REFERENCE NUMBER
FX-111
SHEET 156

FireLogix ENGINEERING, LTD.

SHEET NOTES

1	1ST FLOOR FIRE SPRINKLER MAIN.



PARTIAL 1ST FLOOR FIRE SPRINKLER PLAN NORTH

1 / FX-112

1/8" = 1'-0"

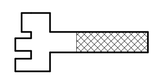
PLAN NORTH

SEE SHEET FP-001 FOR GENERAL NOTES

4' 0' 4' 8'

SCALE: 1/8" = 1'

KEY PLAN



FireLogix ENGINEERING, LTD.

FINAL AS-BUILT DRAWINGS

US Army Corps of Engineers ®

SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: REP	CHECKED BY: REP	ISSUE DATE: JUNE 2013	
DRAWN BY: RSB	SUBMITTED BY: REP	SOLICITATION NO.: W912HN-09-X-5107	
FILE NAME: FX-112.DWG		CONTRACT NO.: W912HN-10-D-0048 T.O. 0007	
SIZE: 22" x 34"	PLOT SCALE: As Indicated	CATEGORY CODE:	
		PLOT DATE: 5/4/2015 7:15:12 AM	

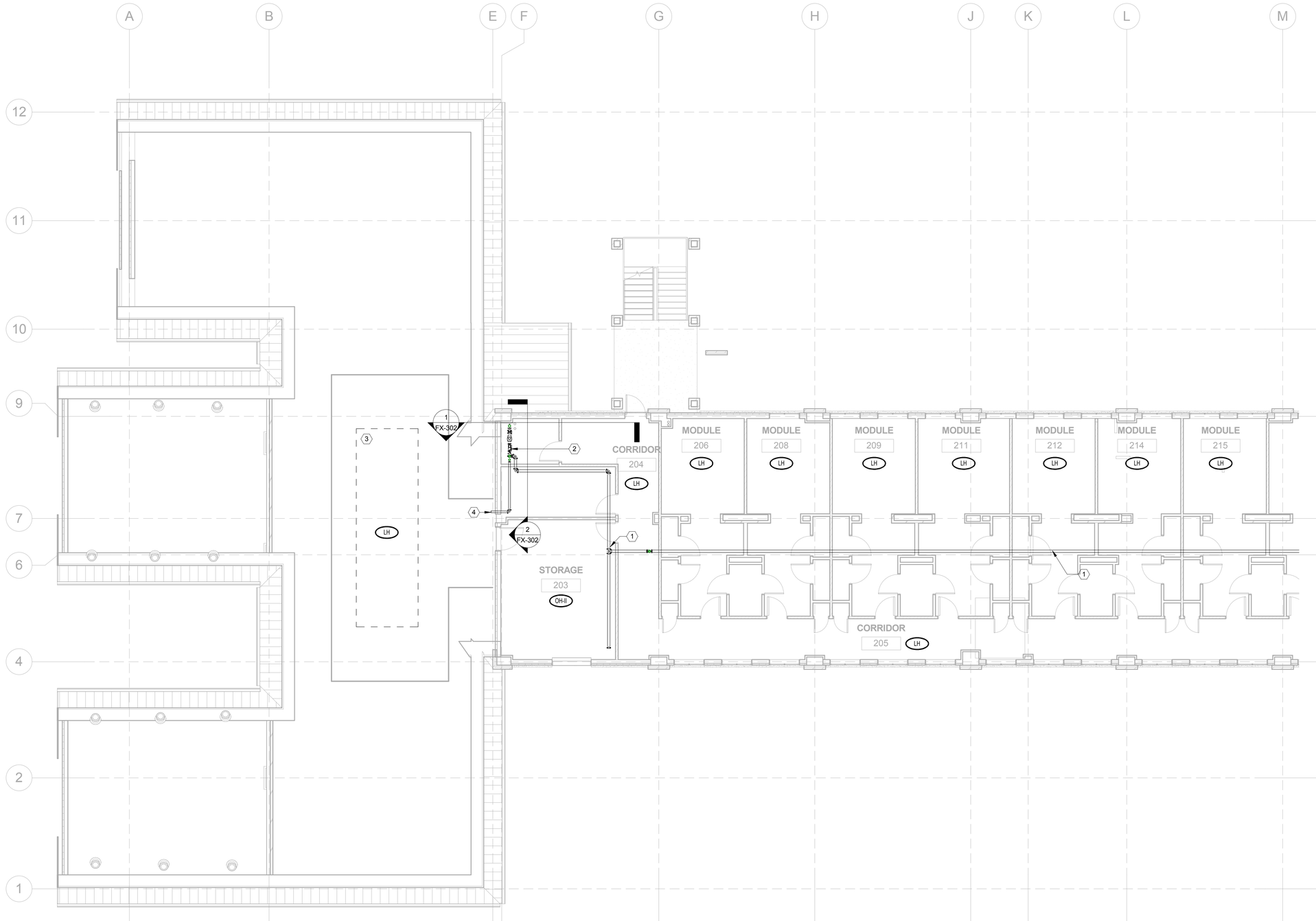
US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI74278
PARTIAL 1ST FLOOR FIRE SPRINKLER PLAN NORTH

PLATE REFERENCE NUMBER
FX-112
SHEET 157

74278- FX-112-
C:\Users\bpatrick\Documents\RRR_RB_DMMF-CON_bpatrick.rvt



SHEET NOTES

1	2ND FLOOR FIRE SPRINKLER MAIN.
2	2ND FLOOR ZONE CONTROL ASSY.
3	PROVIDE 18 INCH DEEP DRAFT CURTAIN AROUND HVAC EQUIPMENT AND PROVIDE SPRINKLER PROTECTION PER NFPA 13 - 8.15.1.5 FOR LOCALIZED PROTECTION.
4	DRY SPRINKLER SYSTEM TO SERVE 2ND FLOOR HVAC SPACE.

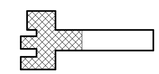
PLAN NORTH

SEE SHEET FP-001 FOR GENERAL NOTES

4' 0' 4' 8'

SCALE: 1/8" = 1'

KEY PLAN



PARTIAL 2ND FLOOR FIRE SPRINKLER PLAN SOUTH

1 / FX-121

1/8" = 1'-0"

FireLogix ENGINEERING, LTD.

FINAL AS-BUILT DRAWINGS

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: REP	ISSUE DATE: JUNE 2013
DRAWN BY: RBB	CHECKED BY: REP
SUBMITTED BY: STOA ARCHITECTS	SOLICITATION NO.: W912HN-09-X-5107
FILE NAME: FX-121.DWG	CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
SIZE: 22" x 34"	CATEGORY CODE:
PLOT SCALE: As indicated	PLOT DATE: 5/4/2015 7:15:17 AM

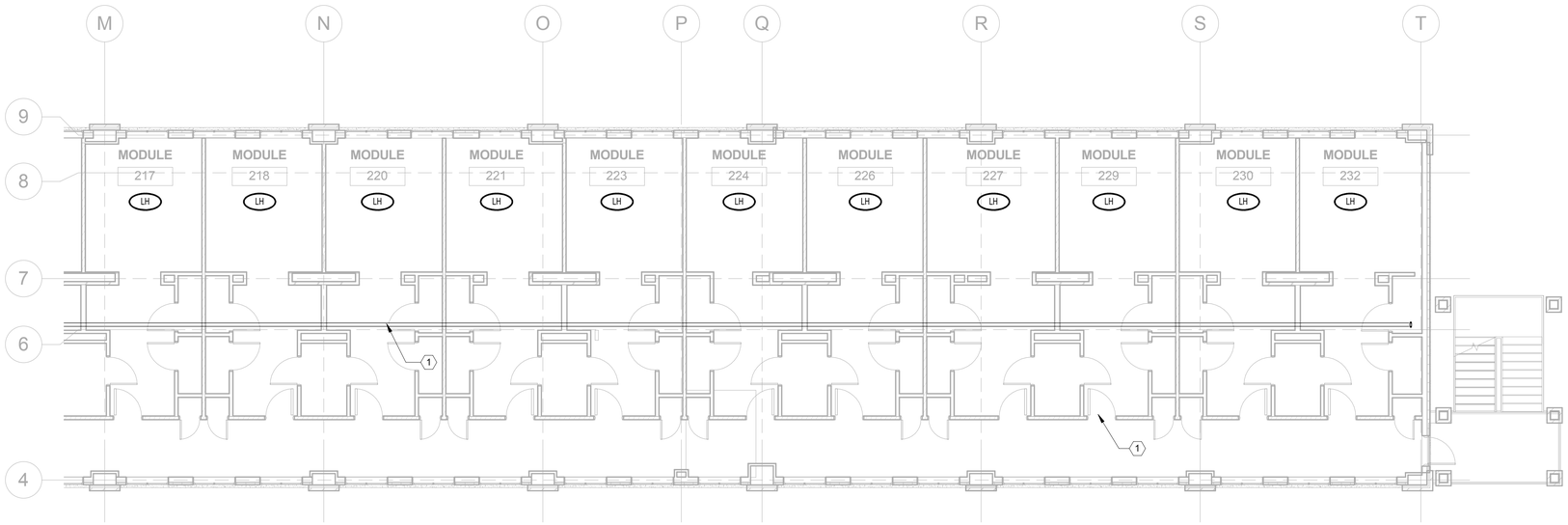
US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
PARTIAL 2ND FLOOR FIRE SPRINKLER PLAN SOUTH

PLATE REFERENCE NUMBER
FX-121
SHEET 158

74278- FX-121-
C:\Users\bpatrick\Documents\RRR_RB_DMMF-CON_bpatrick.rvt



SHEET NOTES

1 2ND FLOOR FIRE SPRINKLER MAIN.

PARTIAL 2ND FLOOR FIRE SPRINKLER PLAN NORTH

1 / FX-122

1/8" = 1'-0"

PLAN NORTH

SEE SHEET FP-001 FOR GENERAL NOTES

4' 0' 4' 8'

SCALE: 1/8" = 1'

KEY PLAN

FINAL AS-BUILT DRAWINGS

FireLogix ENGINEERING, LTD.

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

DESIGNED BY: REP
DRAWN BY: RSB
CHECKED BY: REP
SUBMITTED BY: STOA ARCHITECTS
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
FILE NAME: P:\74278\Arch\...
SIZE: 22" x 34"
PLOT SCALE: As indicated
PLOT DATE: 5/4/2015 7:15:22 AM

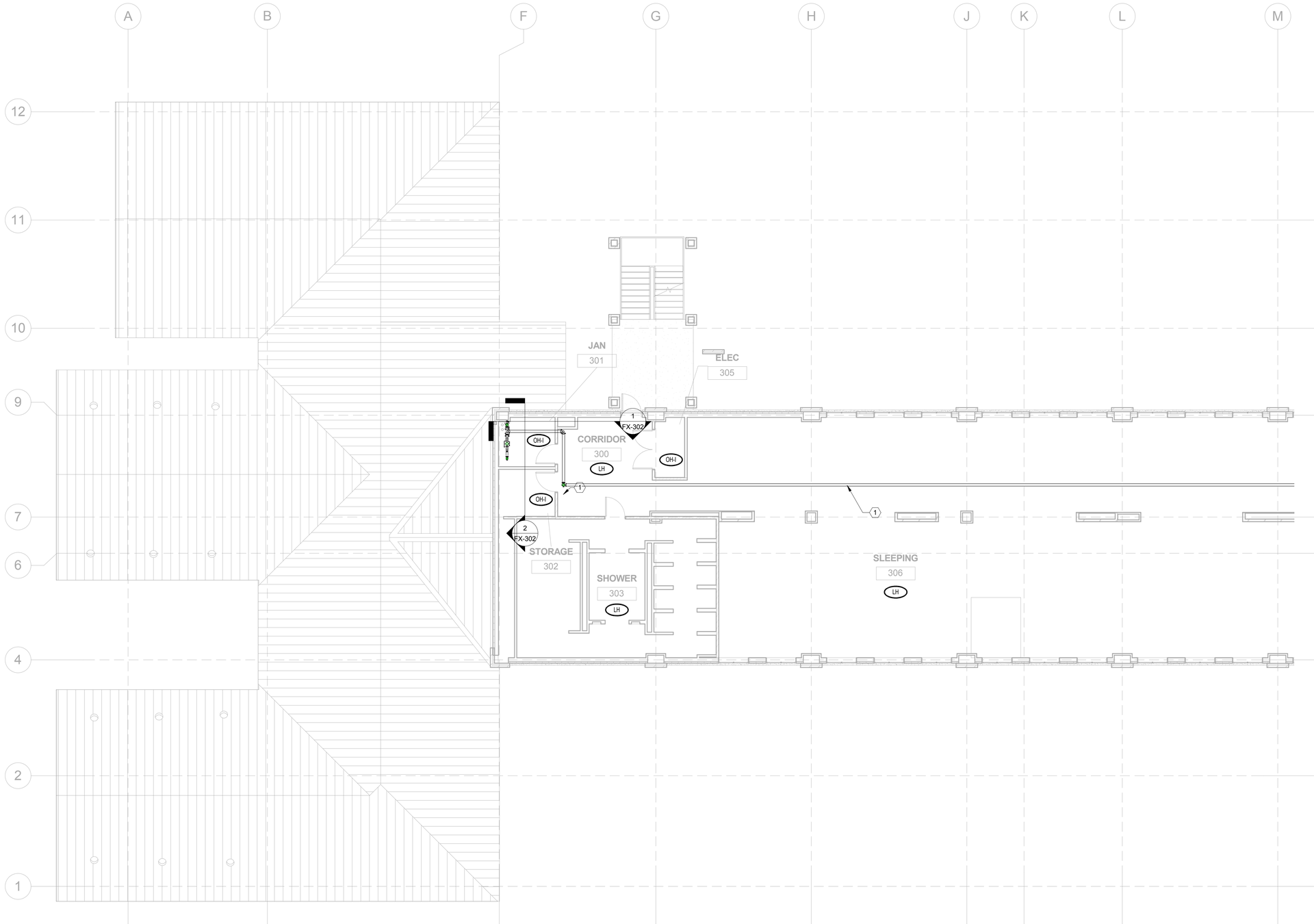
RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
PARTIAL 2ND FLOOR FIRE SPRINKLER PLAN NORTH

PLATE REFERENCE NUMBER
FX-122
SHEET 159

74278- FX-122-
C:\Users\bpatrick\Documents\RRR_RB_DMMF-CON_bpatrick.rvt

SHEET NOTES

1 3RD FLOOR FIRE SPRINKLER MAIN.



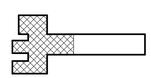
PLAN NORTH

SEE SHEET FP-001 FOR GENERAL NOTES

4' 0' 4' 8'

SCALE: 1/8" = 1'

KEY PLAN



FireLogix ENGINEERING, LTD.

FINAL AS-BUILT DRAWINGS

PARTIAL 3RD FLOOR FIRE SPRINKLER PLAN SOUTH

1 / FX-131

1/8" = 1'-0"

US Army Corps of Engineers ®

SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: REP
DRAWN BY: RSB
SUBMITTED BY: STOA-ARCHITECTS
FILE NAME: FX-131.DWG
SIZE: 22" x 34"

ISSUE DATE: JUNE 2013
CHECKED BY: REP
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
PLOT SCALE: As Indicated
PLOT DATE: 5/4/2015 7:15:26 AM

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

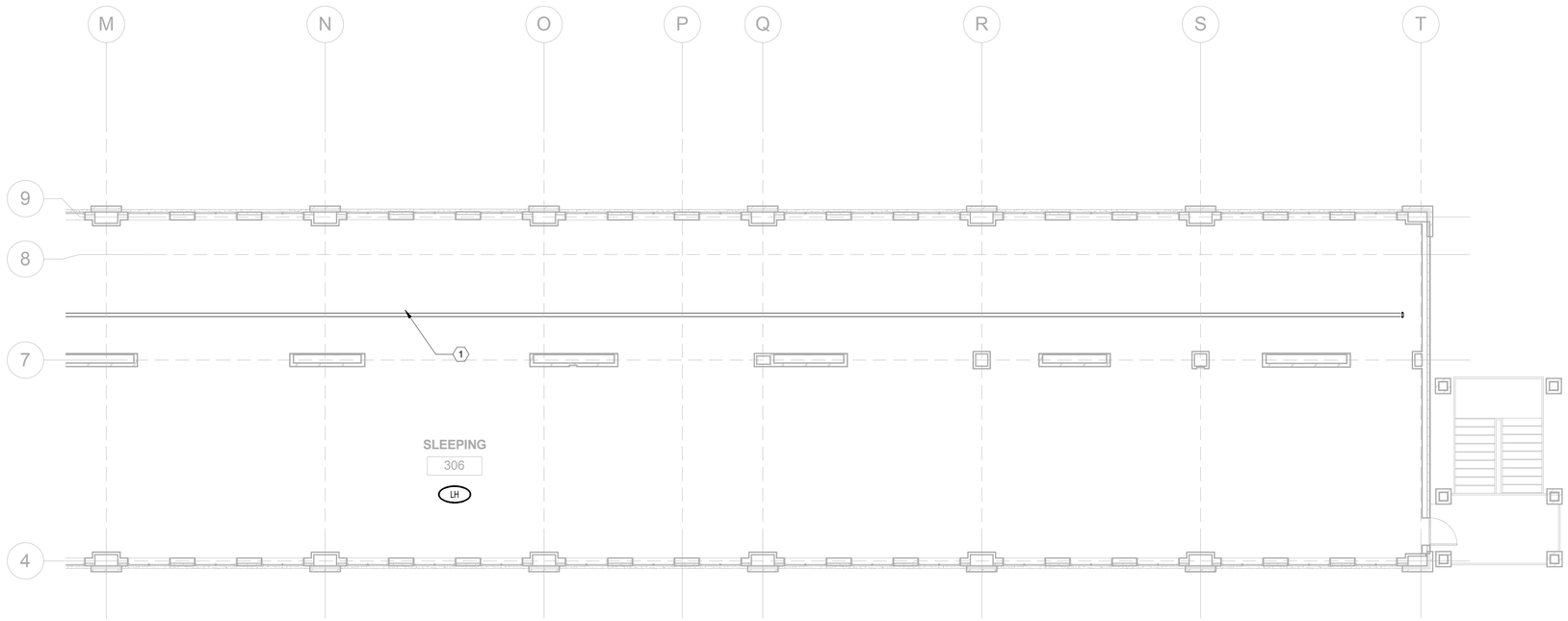
© 2012 STOA ARCHITECTS

FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
PARTIAL 3RD FLOOR FIRE SPRINKLER PLAN SOUTH

PLATE REFERENCE NUMBER
FX-131
SHEET 160

74278- FX-131-
C:\Users\bpatrick\Documents\RRR_RB_DMMF-CON_bpatrick.rvt



SHEET NOTES

1 3RD FLOOR FIRE SPRINKLER MAIN.

PARTIAL 3RD FLOOR FIRE SPRINKLER PLAN NORTH

1 / FX-132

1/8" = 1'-0"

PLAN NORTH

SEE SHEET FP-001 FOR GENERAL NOTES

4' 0' 4' 8'

SCALE: 1/8" = 1'

KEY PLAN



FireLogix ENGINEERING, LTD.

FINAL AS-BUILT DRAWINGS

US Army Corps of Engineers ®

SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

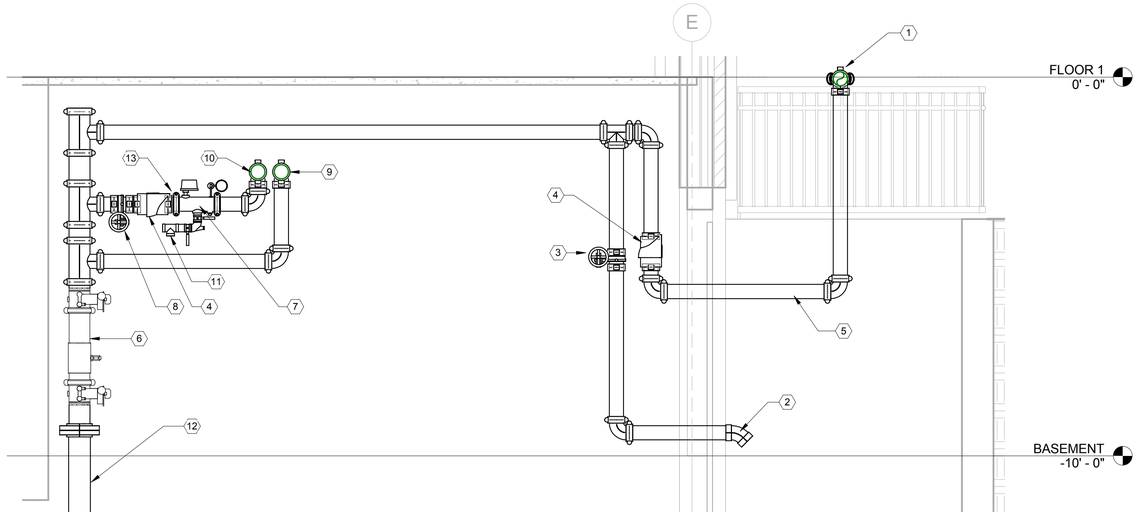
STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

DESIGNED BY: REP	CHECKED BY: REP	ISSUE DATE: JUNE 2013	
DRAWN BY: RSB		SOLICITATION NO.: W912HN-09-X-5107	
SUBMITTED BY: STOA ARCHITECTS		CONTRACT NO.: W912HN-10-D-0048 T.O. 0007	
FILE NAME: FX-132.DWG		CATEGORY CODE:	
SIZE: 22" x 34"	PLOT SCALE: As Indicated	PLOT DATE: 5/4/2015 7:15:29 AM	

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI74278
PARTIAL 3RD FLOOR FIRE SPRINKLER PLAN NORTH

PLATE REFERENCE NUMBER
FX-132
SHEET 161

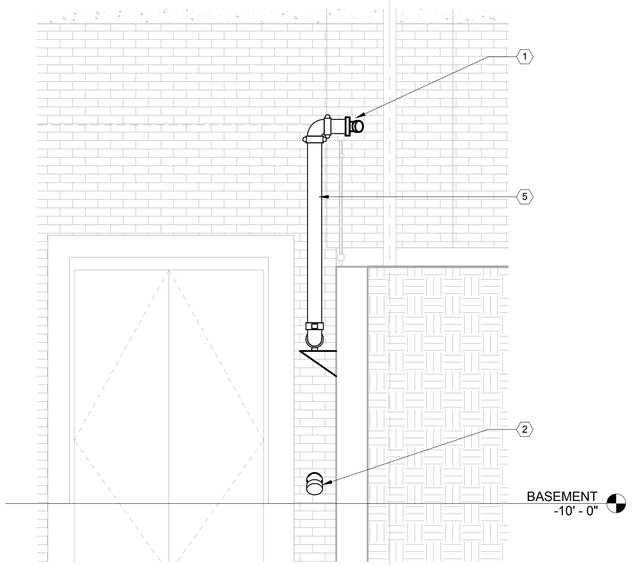
74278- FX-132-
C:\Users\bpatrick\Documents\RRR_RB_DMMF-CON_bpatrick.rvt



1 FX-301

BASEMENT FIRE SPRINKLER RISER

1/2" = 1'-0"



2 FX-301

FIRE DEPARTMENT CONNECTION

1/2" = 1'-0"

SHEET NOTES

1	FIRE DEPARTMENT CONNECTION.
2	BACKFLOW TEST HEADER.
3	CONTROL VALVE FOR BACKFLOW TEST HEADER (NO TAMPER)
4	CHECK VALVE.
5	PROVIDE GALVANIZED PIPING BETWEEN CHECK VALVE AND FDC
6	DOUBLE CHECK BACKFLOW PREVENTER.
7	RISER MANIFOLD.
8	CONTROL VALVE.
9	FEED TO UPPER FLOORS.
10	BASEMENT FIRE SPRINKLER MAIN.
11	ROUTE INSPECTOR'S TEST AND MAIN DRAIN PIPING OUTSIDE.
12	6 INCH INCOMING FIRE LINE (SEE SITE UTILITY PLANS).
13	BASEMENT ZONE CONTROL ASSY.

SEE SHEET FP-001
FOR GENERAL NOTES

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

FireLogix ENGINEERING, LTD.

FINAL AS-BUILT DRAWINGS

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: REP	CHECKED BY: REP	ISSUE DATE: JUNE 2013	
DRAWN BY: RSB		SOLICITATION NO.: W912HN-09-X-5107	
SUBMITTED BY: STOA ARCHITECTS		CONTRACT NO.: W912HN-10-D-0048 T.O. 0007	
FILE NAME: FX301.DWG		CATEGORY CODE:	
SIZE: 22" x 34"	PLOT SCALE: 1/2" = 1'-0"	PLOT DATE: 5/4/2015 7:15:32 AM	

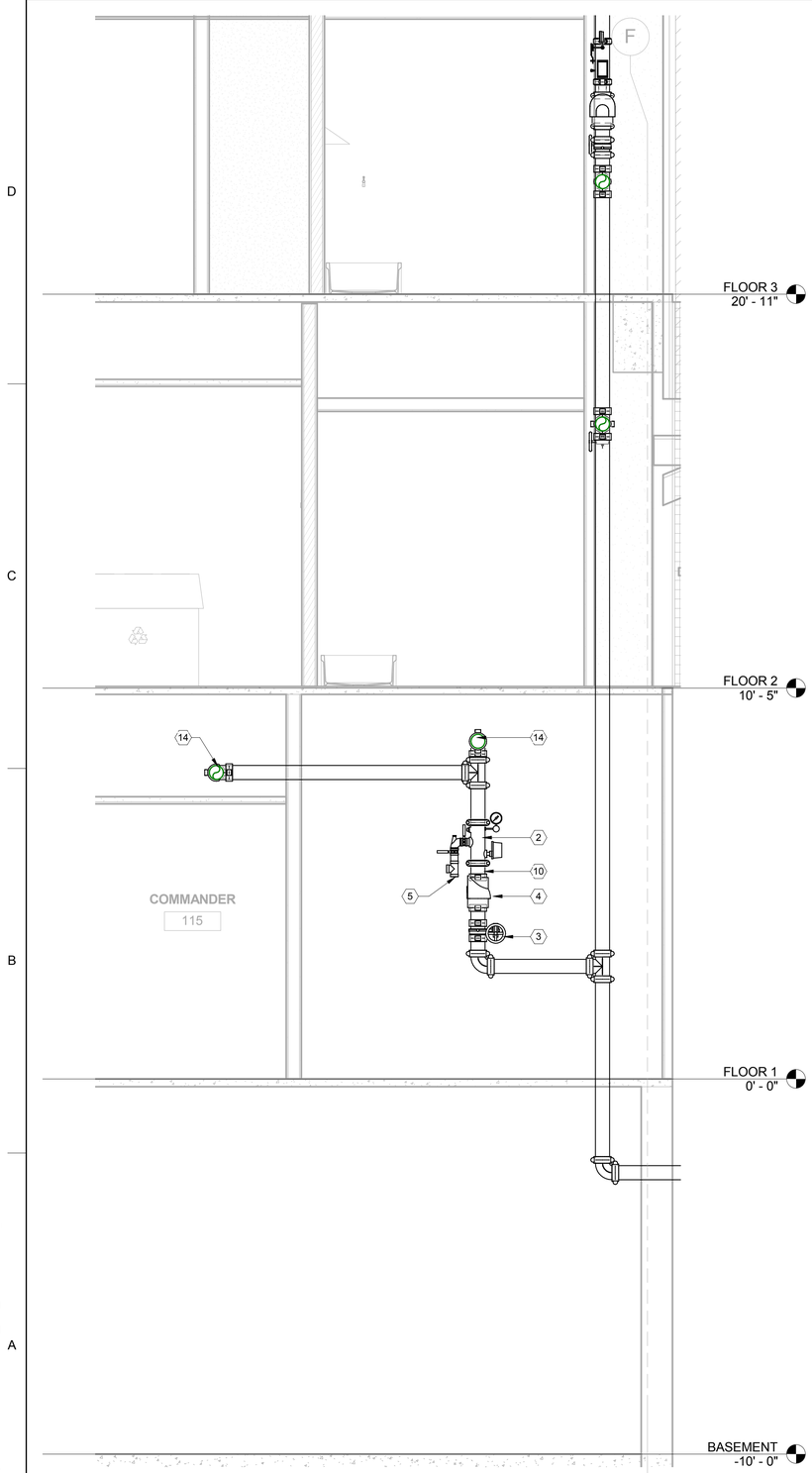
US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003584

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
FIRE SPRINKLER SECTIONS

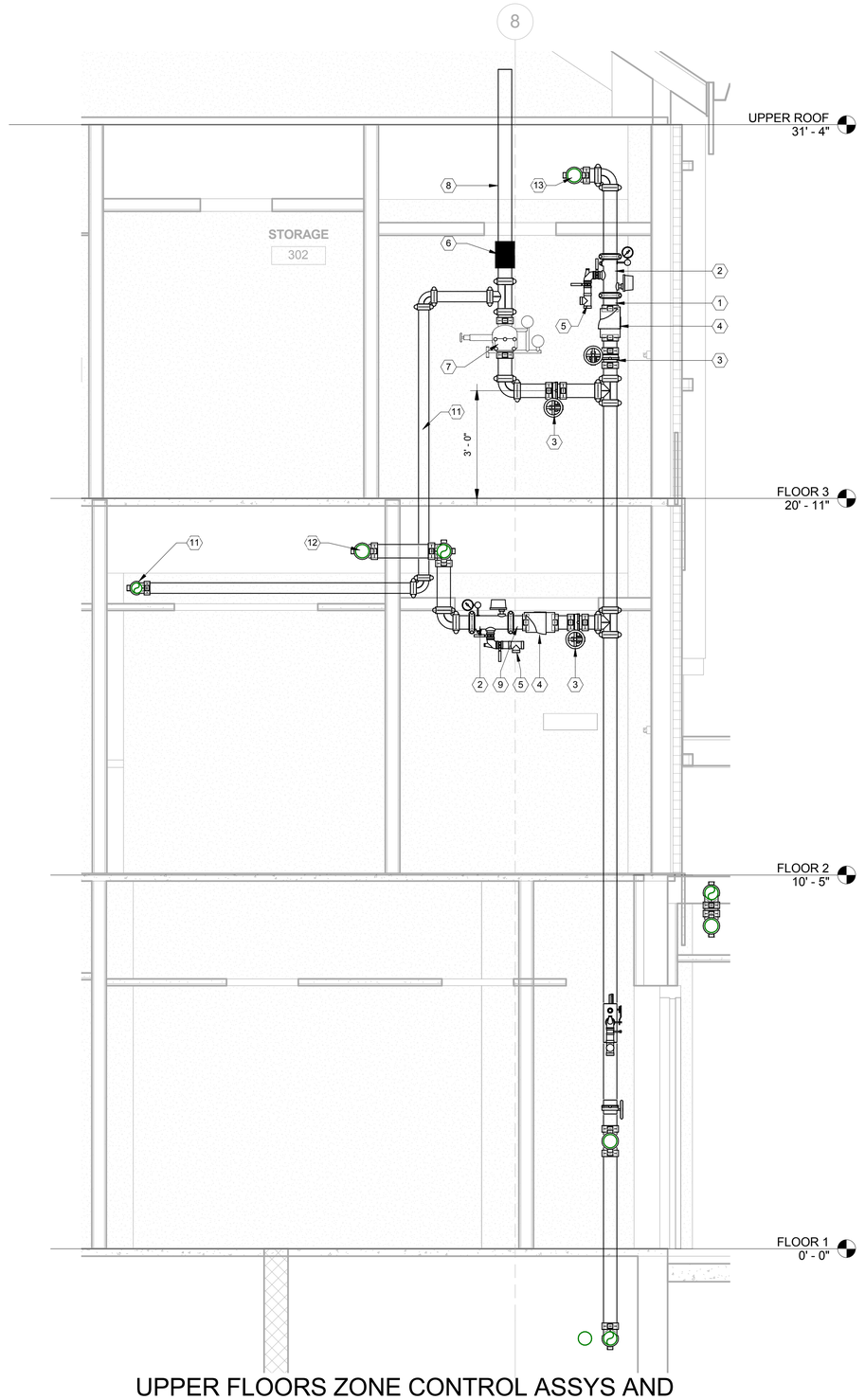
PLATE REFERENCE NUMBER
FX-301
SHEET 162

74278- FX-301-
C:\Users\bpatrick\Documents\RRR_RB_DMMF-CON_bpatrick.rvt



1 FX-302 — 1ST FLOOR ZONE CONTROL ASSY AND RISER

1/2" = 1'-0"



2 FX-302 — UPPER FLOORS ZONE CONTROL ASSYS AND RISER

1/2" = 1'-0"

SHEET NOTES

1	3RD FLOOR ZONE CONTROL ASSY.
2	RISER MANIFOLD.
3	CONTROL VALVE.
4	CHECK VALVE.
5	ROUTE INSPECTOR'S TEST AND MAIN DRAIN PIPING OUTSIDE.
6	PIPE MOUNTED AIR COMPRESSOR FOR DRY SPRINKLER SYSTEM.
7	DRY SPRINKLER SYSTEM CHECK VALVE.
8	DRY SPRINKLER SYSTEM TO SERVE ATTIC.
9	2ND FLOOR ZONE CONTROL ASSY.
10	1ST FLOOR ZONE CONTROL ASSY.
11	DRY SPRINKLER SYSTEM TO SERVE 2ND FLOOR HVAC SPACE.
12	2ND FLOOR FIRE SPRINKLER MAIN.
13	3RD FLOOR FIRE SPRINKLER MAIN.
14	1ST FLOOR FIRE SPRINKLER MAIN.

SEE SHEET FP-001
FOR GENERAL NOTES

SCALE: 1/2" = 1'

FireLogix ENGINEERING, LTD.

FINAL AS-BUILT DRAWINGS

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003594

DESIGNED BY: REP
DRAWN BY: RSB
CHECKED BY: REP
SUBMITTED BY: STOA-ARCHITECTS
SIZE: 22" x 34"
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D0048 T.O. 0007
CATEGORY CODE:
FILE NAME: FX-302.DWG
PLOT SCALE: 1/2" = 1'-0"
PLOT DATE: 5/4/2015 7:15:37 AM

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
FIRE SPRINKLER SECTIONS

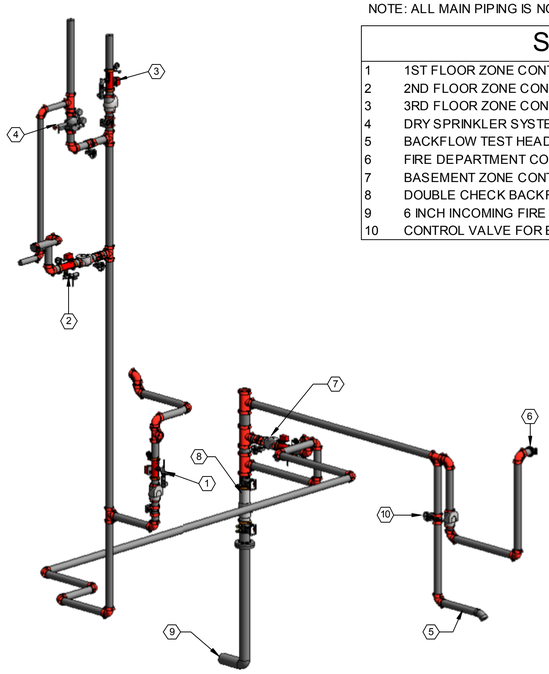
PLATE REFERENCE NUMBER
FX-302
SHEET 163

74278- FX-302-
C:\Users\bpatrick\Documents\RRR_RB_DMMF-CON_bpatrick.rvt

NOTE: ALL MAIN PIPING IS NOT SHOWN THIS PLAN FOR CLARITY.

SHEET NOTES

1	1ST FLOOR ZONE CONTROL ASSY.
2	2ND FLOOR ZONE CONTROL ASSY.
3	3RD FLOOR ZONE CONTROL ASSY.
4	DRY SPRINKLER SYSTEM TO SERVE ATTIC.
5	BACKFLOW TEST HEADER.
6	FIRE DEPARTMENT CONNECTION.
7	BASEMENT ZONE CONTROL ASSY.
8	DOUBLE CHECK BACKFLOW PREVENTER.
9	6 INCH INCOMING FIRE LINE (SEE SITE UTILITY PLANS).
10	CONTROL VALVE FOR BACKFLOW TEST HEADER (NO TAMPER)



1 / FX-303 SPRINKLER SYSTEM PARTIAL ISOMETRIC

NTS

SEE SHEET FP-001 FOR GENERAL NOTES

FireLogix ENGINEERING, LTD.

FINAL AS-BUILT DRAWINGS

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR

ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D-3048 T.O. 0007
CATEGORY CODE:
PLOT DATE: 5/4/2015 7:15:44 AM

DESIGNED BY: REP
DRAWN BY: KSB
CHECKED BY: REP
SUBMITTED BY: STOA ARCHITECTS
FILE NAME: FX-303.DWG
PLOT SCALE:
SIZE: 22" x 34"

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

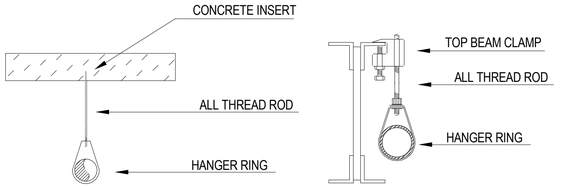
STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003954

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
FIRE SPRINKLER ISOMETRIC

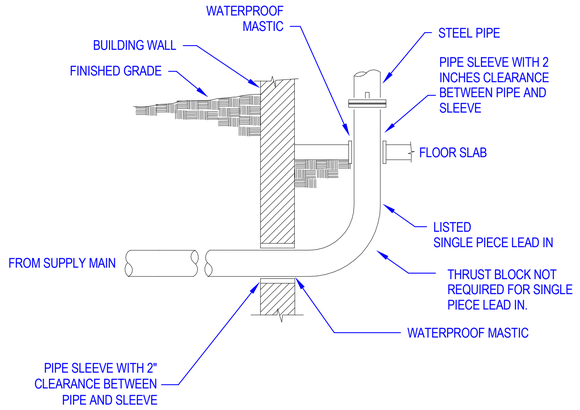
PLATE REFERENCE NUMBER
FX-303
SHEET 164

74278- FX-303-
C:\Users\bpatrick\Documents\RRR_RB_DMMF-CON_bpatrick.rvt

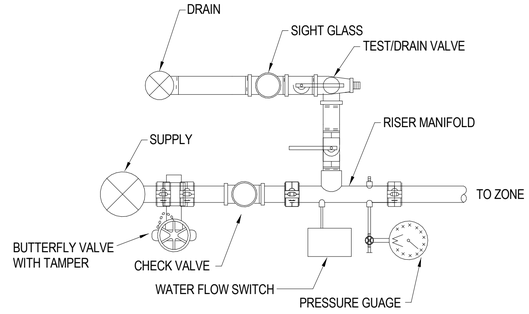
MAXIMUM DISTANCE BETWEEN HANGERS									
NOMINAL PIPE SIZE	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"
MAX HANGER SPACING	12'-0"	12'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"



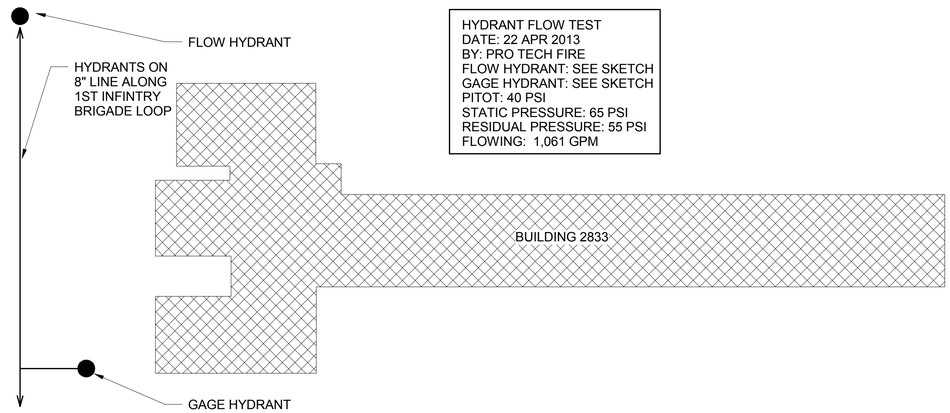
1 FX-501 HANGER DETAIL
NTS



2 FX-501 FIRE SPRINKLER LEAD IN
NTS



3 FX-501 ZONE CONTROL ASSEMBLY
NTS



HYDRANT FLOW TEST
DATE: 22 APR 2013
BY: PRO TECH FIRE
FLOW HYDRANT: SEE SKETCH
GAGE HYDRANT: SEE SKETCH
PITOT: 40 PSI
STATIC PRESSURE: 65 PSI
RESIDUAL PRESSURE: 55 PSI
FLOWING: 1,061 GPM

4 FX-501 FIRE SPRINKLER SITE PLAN
NTS

FIRE PROTECTION HAZARD SCHEDULE

HAZARD*	HAZARD CLASS	DESIGN CRITERIA	HOSE	DURATION	SPRINKLER	SPRINKLER SPACING	NOTES
LH	LIGHT	.10 GPM/SF OVER 3,000 SF	250 GPM	60 MIN	QUICK RESPONSE, ORDINARY TEMPERATURE, K=5.6	MAX 225 SF; MAX 15 FEET BETWEEN SPRINKLERS; MAX 7.5 FEET FROM WALL*	ALL AREAS ARE LIGHT HAZARD U.N.O.
OH-I	ORDINARY GROUP I	.15 GPM/SF OVER 3,000 SF	500 GPM	60 MIN	QUICK RESPONSE, ORDINARY TEMPERATURE, K=5.6	MAX 130 SF; MAX 15 FEET BETWEEN SPRINKLERS; MAX 7.5 FEET FROM WALL*	
OH-II	ORDINARY GROUP II	.20 GPM/SF OVER 3,000 SF	500 GPM	90 MIN	QUICK RESPONSE, ORDINARY TEMPERATURE, K=5.6	MAX 130 SF; MAX 15 FEET BETWEEN SPRINKLERS; MAX 7.5 FEET FROM WALL*	

*SEE HAZARD SYMBOL LEGEND ON SHEET FP-001

5 FX-501 FIRE PROTECTION HAZARD SCHEDULE
NTS

SEE SHEET FP-001 FOR GENERAL NOTES

FireLogix ENGINEERING, LTD.

FINAL AS-BUILT DRAWINGS

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: REP	CHECKED BY: REP	ISSUE DATE: JUNE 2013	
DRAWN BY: RSB	SUBMITTED BY: STOA-ARCHITECTS	SOLICITATION NO.: W912HN-09-X-5107	CONTRACT NO.: W912HN-10-D-0049 T.O. 0007
FILE NAME: FX501.dwg		CATEGORY CODE:	
SIZE: 22" x 34"	PLOT SCALE: As indicated	PLOT DATE: 5/4/2015 7:15:48 AM	

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
FIRE SPRINKLER DETAILS

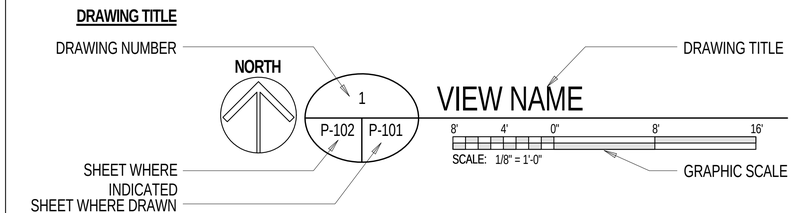
PLATE REFERENCE NUMBER
FX-501
SHEET 165

74278- FX-501-
C:\Users\bpatrick\Documents\RRR_RB_DMMF-CON_bpatrick.rvt

PLUMBING LEGEND

SYMBOL	DESCRIPTION
	SANITARY SEWR BELOW FLOOR
	SANITARY SEWER ABOVE CEILING
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RECIRCULATION
	VENT LINE
V.T.R.	VENT THRU ROOF
OR	CLEAN OUT
	GATE VALVE
	CHECK VALVE
	BALANCING VALVE
P-NO.	FIXTURE DESIGNATION
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
WCO	WALL CLEAN OUT
FCO	FLOOR CLEAN OUT
FGCO	FINISH GRADE CLEAN OUT

VIEW NAME LEGEND



PLUMBING GENERAL NOTES

1. PLUMBING CONTRACTOR SHALL COORDINATE ALL ASPECTS OF WORK WITH OTHER TRADES PRIOR TO AND DURING CONSTRUCTION/INSTALLATION.

2. ALL WORK SHALL CONFORM TO THE INTERNATIONAL PLUMBING CODE (IPC), INTERNATIONAL BUILDING CODE (IBC), ASHRAE 90.1 (2007), THE AMERICAN DISABILITIES ACCESSIBILITY GUIDELINES (ADA), AND LOCAL PLUMBING CODE AMENDMENTS.

3. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE LOCATION OF ALL SUCH FACILITIES AND THEIR PROTECTION FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. IF EXISTING UTILITIES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT WITH LOCATION OF THE NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED. WHERE UTILITIES ARE INADVERTENTLY DISTURBED, THE REPAIR OF THE SAME UTILITY SHALL BE THE RESPONSIBILITY OF THE RESPONSIBLE CONTRACTOR. VERIFICATION OF LOCATIONS AND DIRECTIONS OF FLOWS OF UNDERGROUND UTILITIES, SHOWN OR NOT SHOWN, WILL BE THE RESPONSIBILITY OF THE CONTRACTOR PRIOR TO AND DURING CONSTRUCTION/INSTALLATION

4. WHEN A CONFLICT BETWEEN PLANS AND SPECIFICATIONS OR NOTES OCCURS, THE ENGINEER SHALL DECIDE WHICH GOVERNS. GENERALLY THE MORE RESTRICTIVE, MORE SPECIFIC, OR STRICTER PROVISION SHALL GOVERN. IF ANY DISCREPANCIES ARE DISCOVERED ON THE PLANS OR BETWEEN THE PLANS AND THE SPECIFICATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OBTAIN CLARIFICATION OF THE INTENT FROM THE ENGINEER PRIOR TO CONSTRUCTION OR INSTALLATION OF PROPOSED IMPROVEMENTS.

5. THE CONTRACT DOCUMENTS FORM A GUIDE FOR A COMPLETE SYSTEM. PROVIDE ALL ITEMS NECESSARY TO PROVIDE A COMPLETE SYSTEM BUT NOT SPECIFICALLY MENTIONED, SUCH AS HANGARS, TRANSITIONS, OFFSETS AND DRAINS.

6. LAYOUTS INDICATED ON DRAWINGS ARE DIAGRAMMATICAL ONLY. DRAWINGS SHALL NOT BE SCALED. COORDINATE EXACT LOCATION OF EQUIPMENT, DUCTWORK, AND PIPING TO ELIMINATE CONFLICT WITH OTHER DIVISIONS. DESIGNER RESERVES RIGHT TO MAKE REASONABLE CHANGES IN LOCATIONS OF EQUIPMENT, DUCTWORK AND PIPING PRIOR TO CONSTRUCTION.

7. SUPERVISE ALL WORK WITH A COMPETENT PLUMBER SPECIFICALLY QUALIFIED IN PLUMBING DISCIPLINE.

8. CONTRACTOR SHALL PROVIDE ALL NECESSARY LABOR, MATERIALS, TOOLS AND EQUIPMENT TO PERFORM WORK REQUIRED ON THE DRAWINGS AND SPECIFICATIONS.

9. CONTRACTOR SHALL PAY ALL FEES AND CHARGES REQUIRED TO ACHIEVE THE INSTALLATION.

10. ALL PLUMBING EQUIPMENT AND FLOOR DRAINS IN EQUIPMENT ROOMS TO BE LOCATED PER MECHANICAL EQUIPMENT REQUIREMENTS AND ARCHITECTURAL DRAWINGS. NOT SCALED OFF PLUMBING DRAWINGS.

11. CONTRACTOR SHALL OFFSET ALL VENTS THRU ROOF AS REQUIRED TO MAINTAIN 15'-0" MINIMUM SEPARATION FROM ROOF TOP UNIT CURB AND ALL AIR INTAKE LOCATIONS.

12. ALL PIPE FITTINGS AND VALVES IN INSULATED PIPE SYSTEMS TO BE INSULATED.

13. LOCATE ALL SHUTOFF VALVES FOR EASY ACCESS AND OPERATION. WHERE VALVES MUST NECESSARILY BE LOCATED IN ENCLOSED SPACES, THEY SHALL BE PROVIDED WITH ACCESS PANELS OF SUFFICIENT SIZE FOR OPERATION. IDENTIFY QUANTITY AND COORDINATE WITH GENERAL CONTRACTOR. FURNISH THESE ACCESS PANELS TO PROPER TRADES FOR INSTALLATION.

14. PROVIDE SHOCK ARRESTORS AT COLD & HOT WATER CONNECTIONS TO FIXTURE CONNECTIONS WITH QUICK CLOSING VALVES (I.E. WATER CLOSETS, ETC.). SHOCK ARRESTORS INSTALLATIONS SHALL BE AS RECOMMENDED BY PDI INSTITUTE AND EQUIPMENT MANUFACTURER. AIR CHAMBERS SHALL NOT BE USED.

15. FIXTURES AND ROUGHED IN FIXTURES SHALL BE COMPLETE WITH WITH SUPPLY PIPES WITH STOPS. SUPPLIES, STOPS, & ESCUTICHEONS TO BE CHROME PLATED. WHERE EXPOSED TO VIEW ESCUTCHIONS SHALL BE SET SCREW TYPE.

16. ALL ISOLATION/SHUT OFF VALVES SHALL BE INSTALLED SUCH THAT THEY MAY BE EASILY SEEN AND REACHED FROM FLOOR OR STEP LADDER.

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK | DESCRIPTION | DATE | APPR.

DESIGNED BY: ICT
DRAWN BY: ICT
CHECKED BY: ICT
SUBMITTED BY: ICT
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-S107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
FILE NAME: P001_PLMB
PLOT SCALE: As Indicated
SIZE: 22" x 34"
PLOT DATE: 5/1/2015 3:49:14 PM

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS

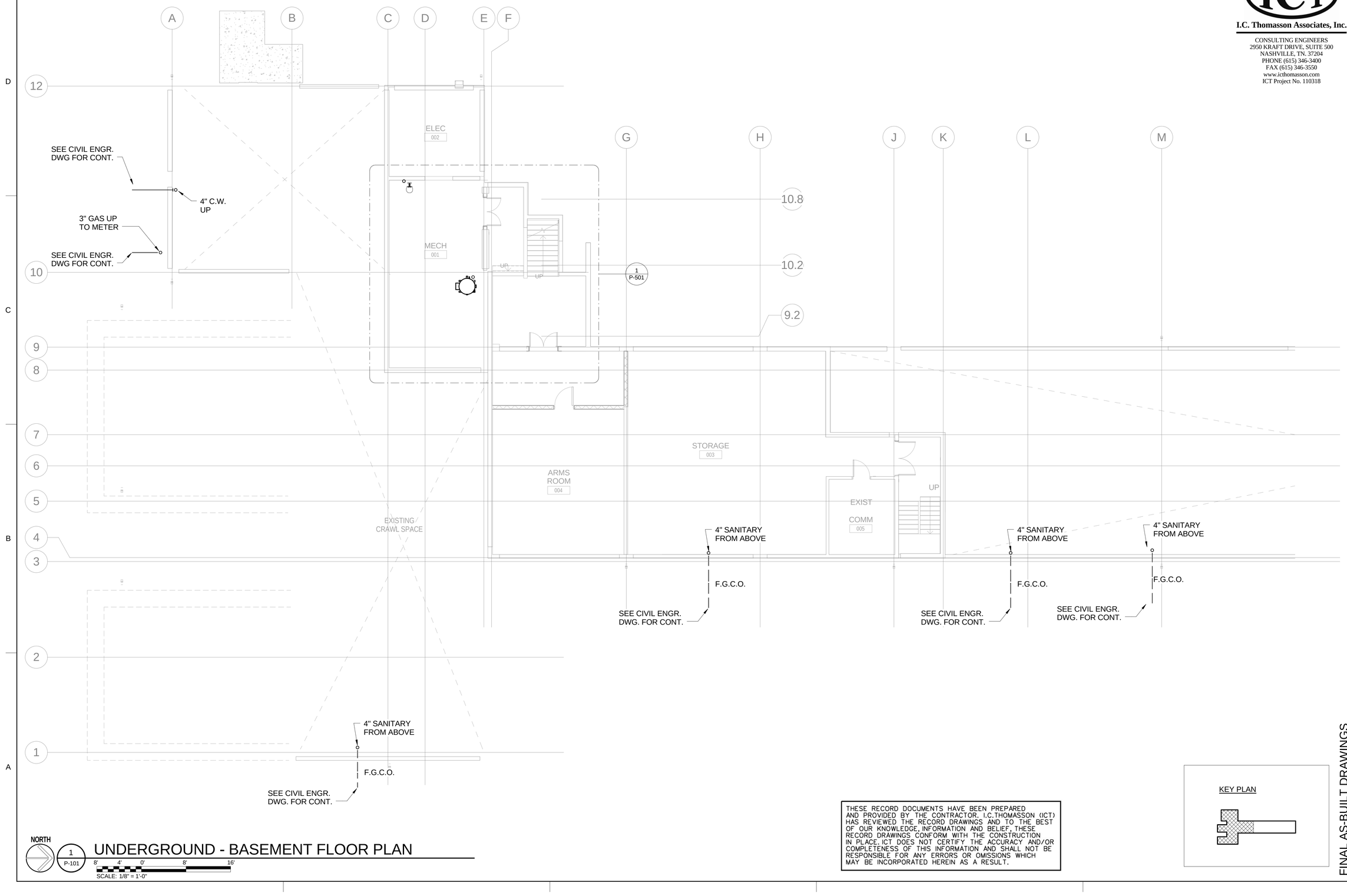
FL LIC #AA0003564

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
PLUMBING LEGEND

PLATE REFERENCE NUMBER
P-001
SHEET 166

74278- P-001-



NORTH

1
P-101

UNDERGROUND - BASEMENT FLOOR PLAN

8' 4' 0' 8' 16'
SCALE: 1/8" = 1'-0"

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

KEY PLAN

FINAL AS-BUILT DRAWINGS

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.ictthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: ICT	CHECKED BY: ICT	ISSUE DATE: JUNE 2013	
DRAWN BY: ICT		SOLICITATION NO.: W912HN-09-X-5107	
SUBMITTED BY: ICT		CONTRACT NO.: W912HN-10-D-0048 T.O. 0007	
FILE NAME: P-101.DWN		CATEGORY CODE:	
SIZE: 22" x 34"	PLOT SCALE: As Indicated	PLOT DATE: 5/1/2015 3:49:15 PM	

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS

FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
UNDERGROUND - BASEMENT FLOOR PLAN

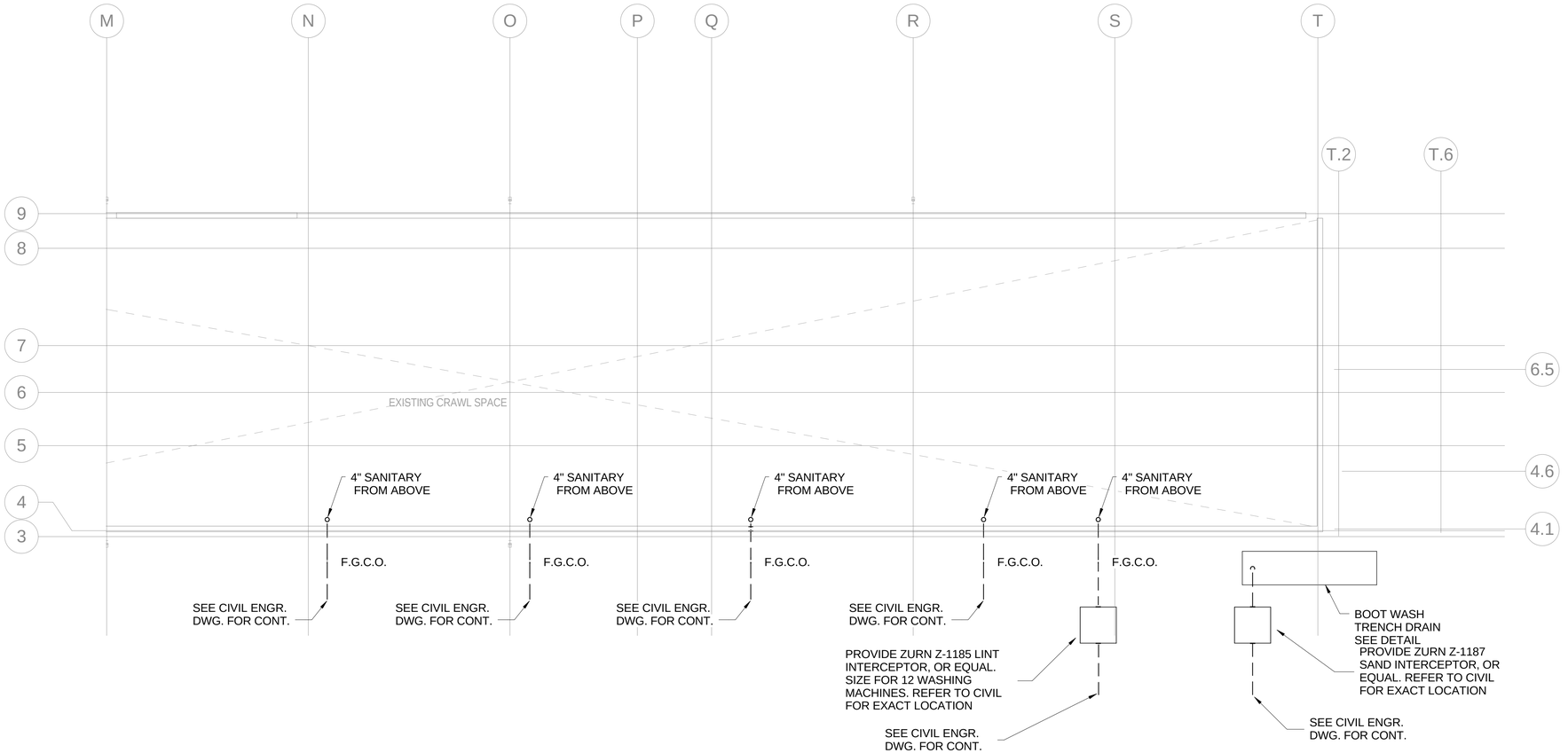
PLATE REFERENCE NUMBER
P-101
SHEET 167

74278- P-101-

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.ictthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.



NORTH

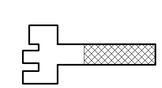
1 / P-102

UNDERGROUND - BASEMENT FLOOR PLAN

8' 4' 0' 8' 16'
SCALE: 1/8" = 1'-0"

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

KEY PLAN



FINAL AS-BUILT DRAWINGS

ISSUE DATE:	JUNE 2013
DESIGNED BY:	ICT
DRAWN BY:	ICT
CHECKED BY:	ICT
SUBMITTED BY:	ICT
SOLICITATION NO.:	W912HN-09-X-5107
CONTRACT NO.:	W912HN-10-D-0048 T.O. 0007
FILE NAME:	P102.dwg
CATEGORY CODE:	
SIZE:	22" x 34"
PLOT SCALE:	As Indicated
PLOT DATE:	5/1/2015 3:49:16 PM

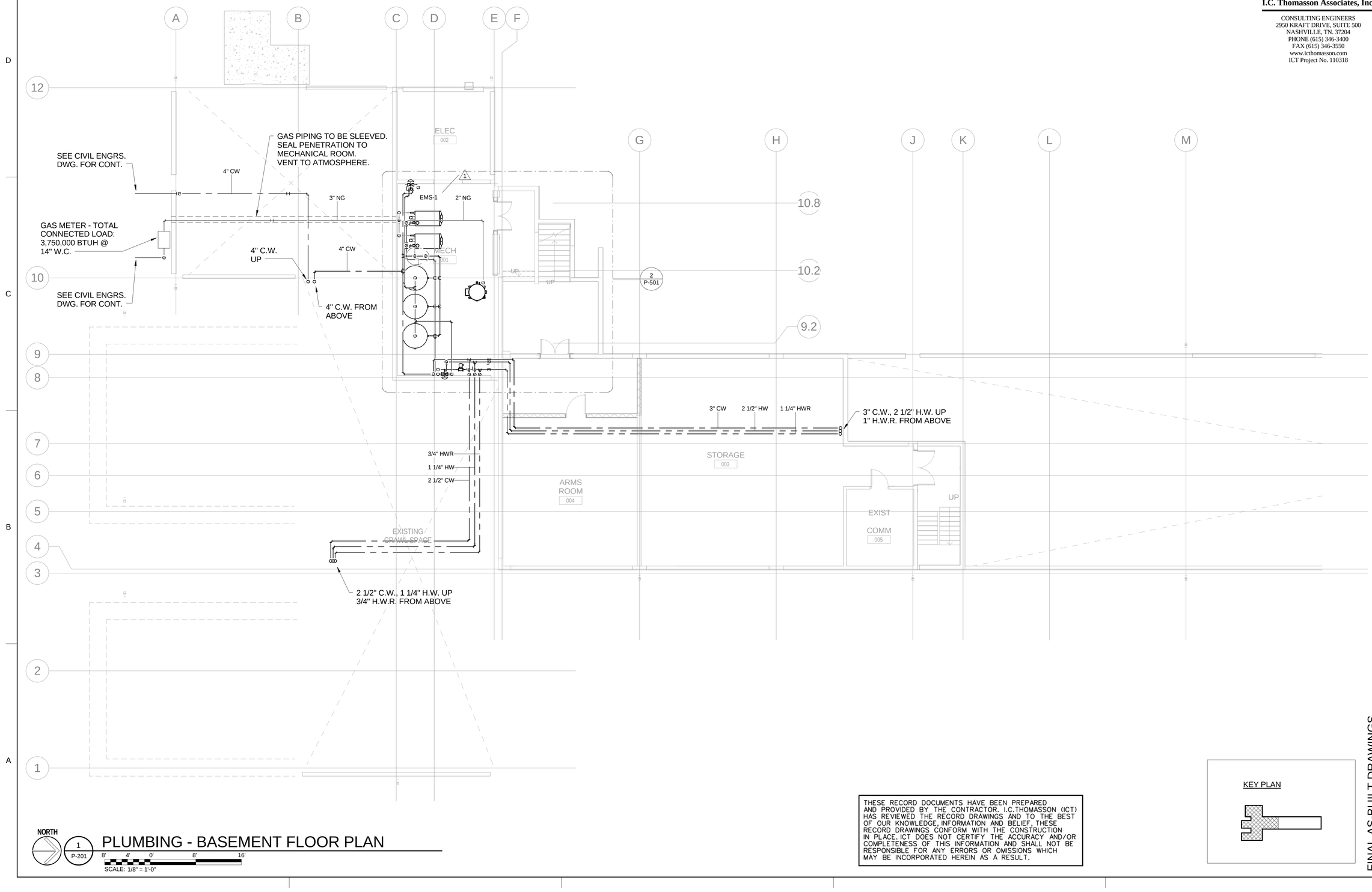
US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
UNDERGROUND - BASEMENT FLOOR PLAN

PLATE REFERENCE NUMBER
P-102
SHEET 168

74278- P-102-



NORTH

1 / P-201

PLUMBING - BASEMENT FLOOR PLAN

8' 4' 0' 8' 16'

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

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

KEY PLAN

FINAL AS-BUILT DRAWINGS

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.ictthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	REVISION #1	DESCRIPTION	DATE	APPR.
1			8/5/13	

DESIGNED BY: ICT
DRAWN BY: ICT
CHECKED BY: ICT
SUBMITTED BY: ICT
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
FILE NAME: P201.DGN
PLOT DATE: 5/1/2015 3:49:18 PM
SIZE: 22" x 34"
PLOT SCALE: As Indicated

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

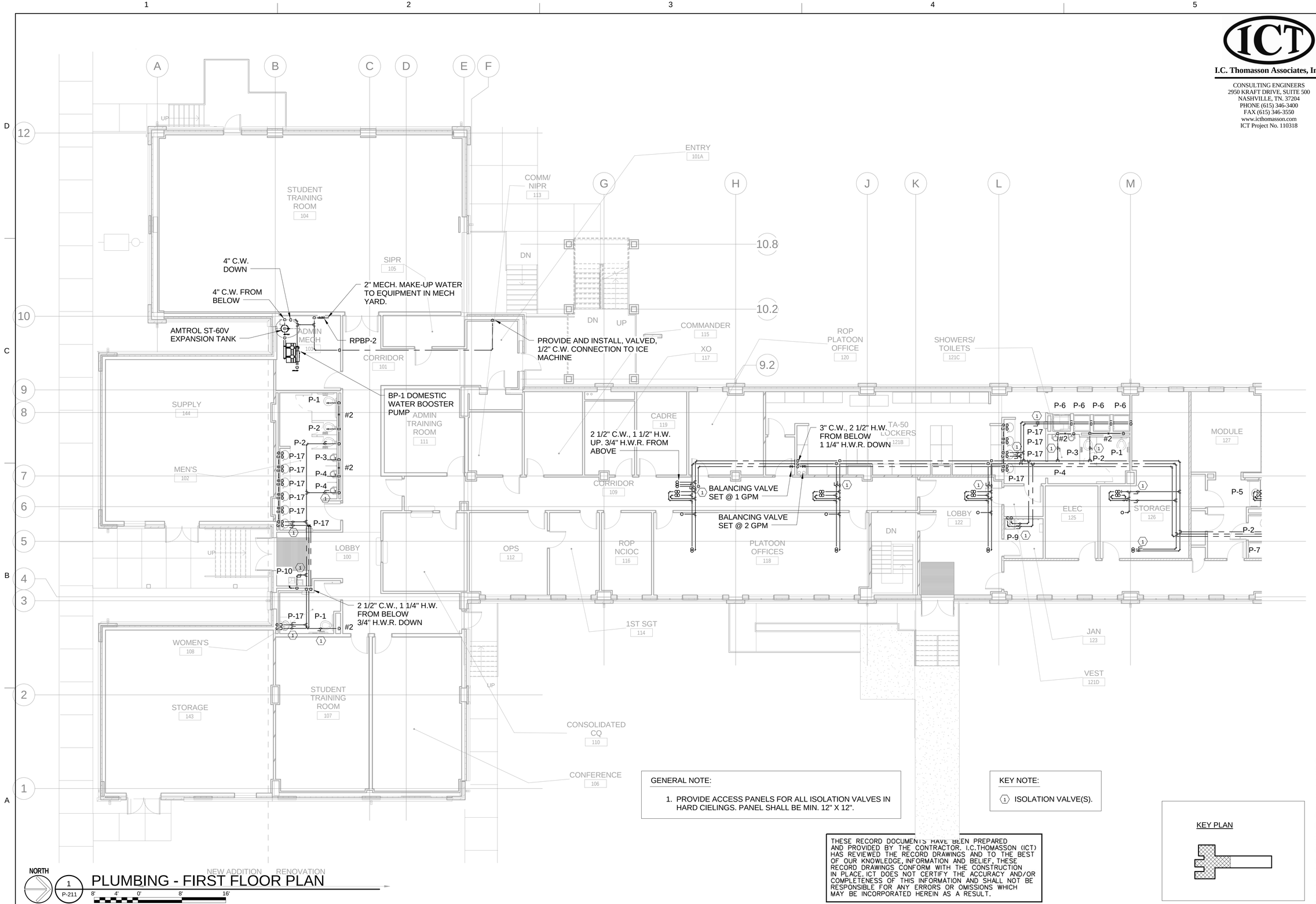
© 2012 STOA ARCHITECTS

FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
PLUMBING - BASEMENT FLOOR PLAN

PLATE REFERENCE NUMBER
P-201
SHEET 169

74278- P-201-



GENERAL NOTE:

1. PROVIDE ACCESS PANELS FOR ALL ISOLATION VALVES IN HARD CIELINGS. PANEL SHALL BE MIN. 12" X 12".

KEY NOTE:

(1) ISOLATION VALVE(S).

KEY PLAN

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

NORTH

1 / P-211

NEW ADDITION RENOVATION

PLUMBING - FIRST FLOOR PLAN

8' 4' 0' 8' 16'

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

FINAL AS-BUILT DRAWINGS

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.
2	AMENDMENT 002 BASEMENT CHANGES PER RFP MOD BO007 - RFP 0006	11/14/14	

DESIGNED BY: ICT
DRAWN BY: ICT
CHECKED BY: ICT
SUBMITTED BY: ICT
FILE NAME: P211_FLOOR_PLAN
SIZE: 22" x 34"
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-S107
CONTRACT NO.: W912HN-10-D-0049 T.O. 0007
CATEGORY CODE:
PLOT SCALE: As indicated
PLOT DATE: 5/4/2015 11:28:55 AM

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
PLUMBING - FIRST FLOOR PLAN

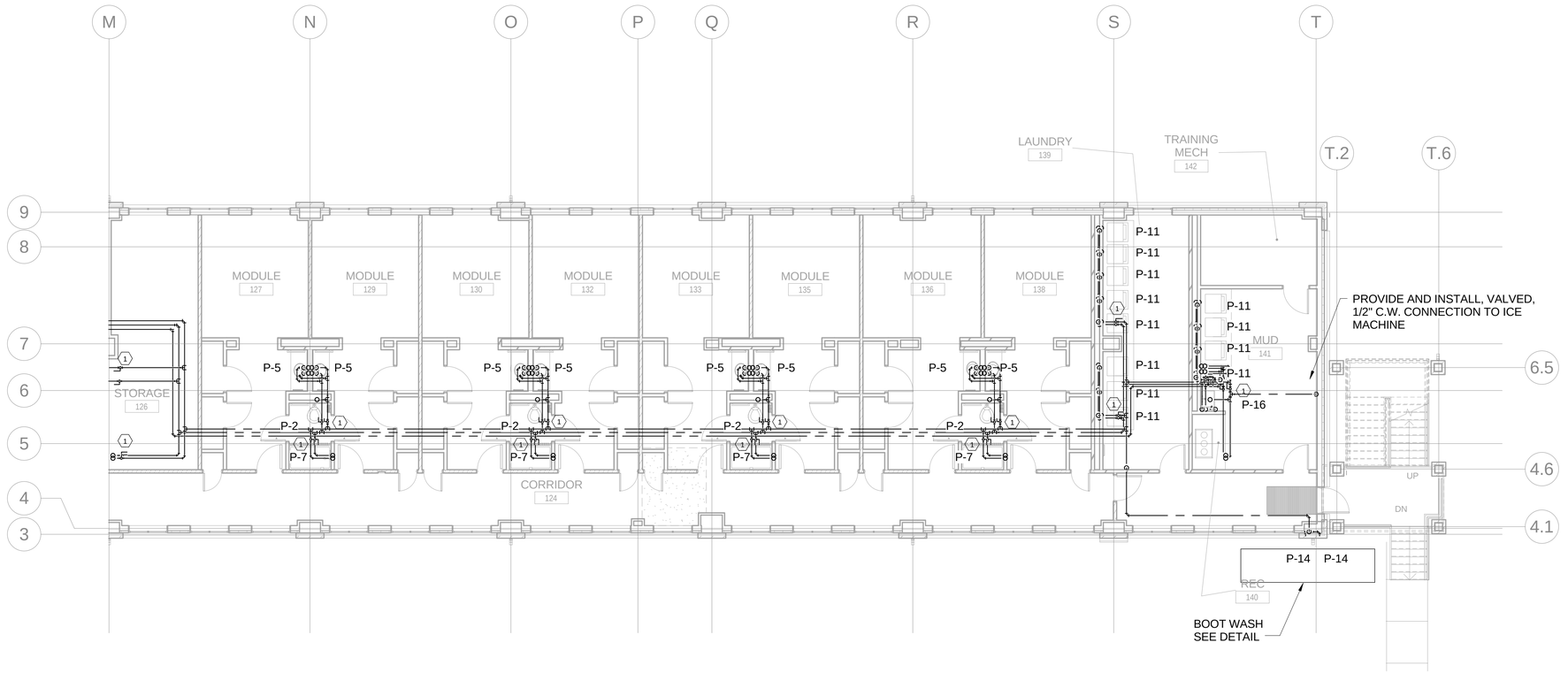
PLATE REFERENCE NUMBER
P-211
SHEET 170

74278- P-211-

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.ictthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.
2	AMENDMENT 002 BASEMENT CHANGES PER RFP MOD 80007 - RFP 0006	11/14/14	



NORTH

1 / P-212

PLUMBING - FIRST FLOOR PLAN

8' 4' 0' 8' 16'

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

GENERAL NOTE:

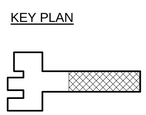
1. PROVIDE ACCESS PANELS FOR ALL ISOLATION VALVES IN HARD CIELINGS. PANEL SHALL BE MIN. 12" X 12".

KEY NOTE:

(1) ISOLATION VALVE(S).

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

KEY PLAN



FINAL AS-BUILT DRAWINGS

ISSUE DATE:	JUNE 2013
DESIGNED BY:	ICT
DRAWN BY:	ICT
CHECKED BY:	ICT
SUBMITTED BY:	ICT
SOLICITATION NO.:	W912HN-09-X-S107
CONTRACT NO.:	W912HN-10-D-0049 T.O. 0007
CATEGORY CODE:	
FILE NAME:	
PLOT DATE:	5/4/2015 11:28:59 AM
SIZE:	22" x 34"
PLOT SCALE:	As indicated

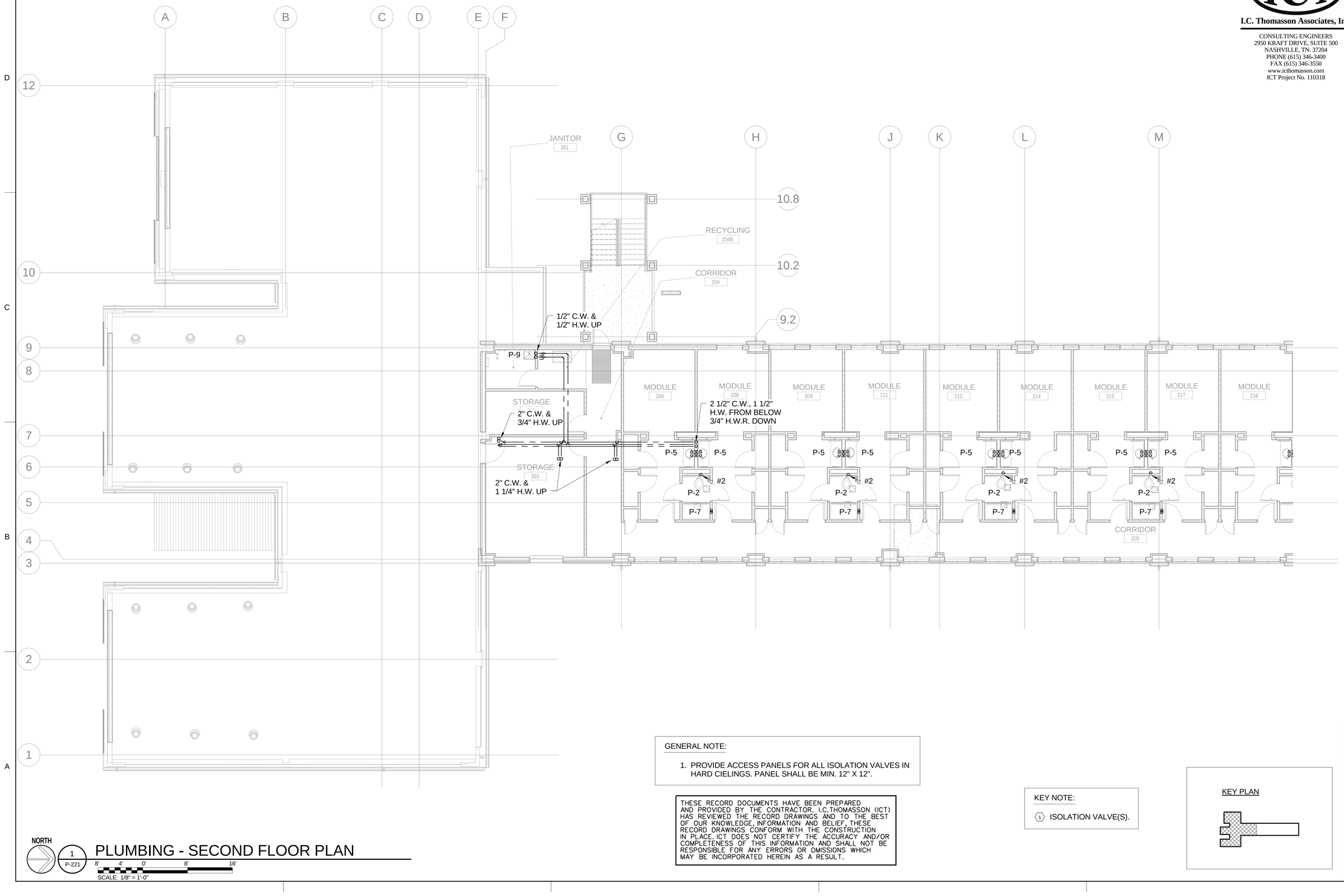
US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
PLUMBING - FIRST FLOOR PLAN

PLATE REFERENCE NUMBER
P-212
SHEET 171

74278- P-212-



GENERAL NOTE:

1. PROVIDE ACCESS PANELS FOR ALL ISOLATION VALVES IN HARD CIELINGS. PANEL SHALL BE MIN. 12" X 12".

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

KEY NOTE:

(1) ISOLATION VALVE(S).

KEY PLAN

NORTH

1 / P-221

8' 4' 0' 8' 16'

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

PLUMBING - SECOND FLOOR PLAN

74278- P-221-

FINAL AS-BUILT DRAWINGS

ICT
I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.ictthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

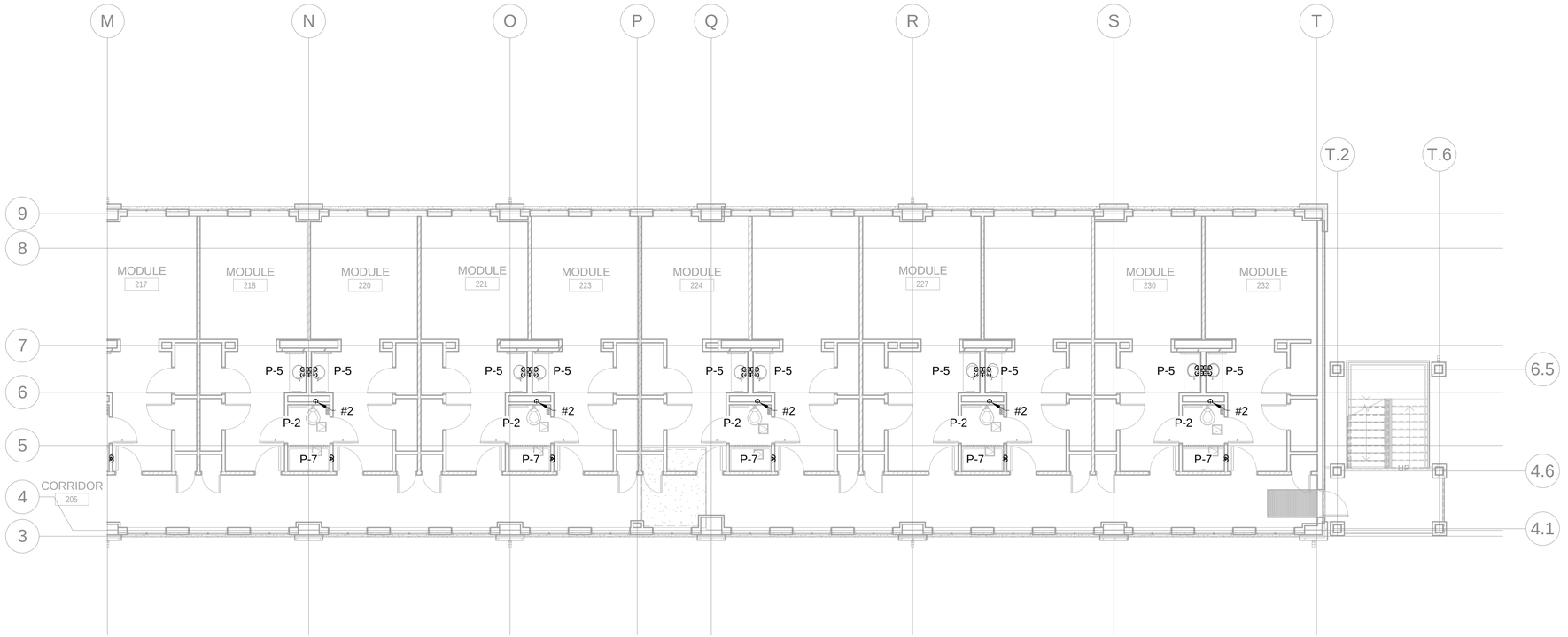
DESIGNED BY: ICT
DRAWN BY: ICT
SUBMITTED BY: ICT
ISSUE DATE: JUNE 2013
CHECKED BY: ICT
FILE NAME: P-221.DWG
SIZE: 22" x 34"
SOLICITATION NO.: W912HN-09-X-S107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
PLOT SCALE: As indicated
PLOT DATE: 5/1/2015 3:49:29 PM

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
PLUMBING - SECOND FLOOR PLAN

PLATE REFERENCE NUMBER
P-221
SHEET 172



NORTH

1 P-222

PLUMBING - SECOND FLOOR PLAN

8' 4' 0' 8' 16'

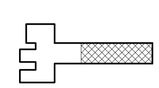
SCALE: 1/8" = 1'-0"

GENERAL NOTE:

1. PROVIDE ACCESS PANELS FOR ALL ISOLATION VALVES IN HARD CIELINGS. PANEL SHALL BE MIN. 12" X 12".

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

KEY PLAN



FINAL AS-BUILT DRAWINGS

I.C. Thomasson Associates, Inc.

CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: ICT
DRAWN BY: ICT
SUBMITTED BY: ICT
ISSUE DATE: JUNE 2013
CHECKED BY: ICT
SOLICITATION NO.: W912HN-09-X-S107
CONTRACT NO.: W912HN-10-D-0049 T.O. 0007
FILE NAME: P222.DWG
CATEGORY CODE:
SIZE: 22" x 34"
PLOT SCALE: As indicated
PLOT DATE: 5/1/2015 3:48:32 PM

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

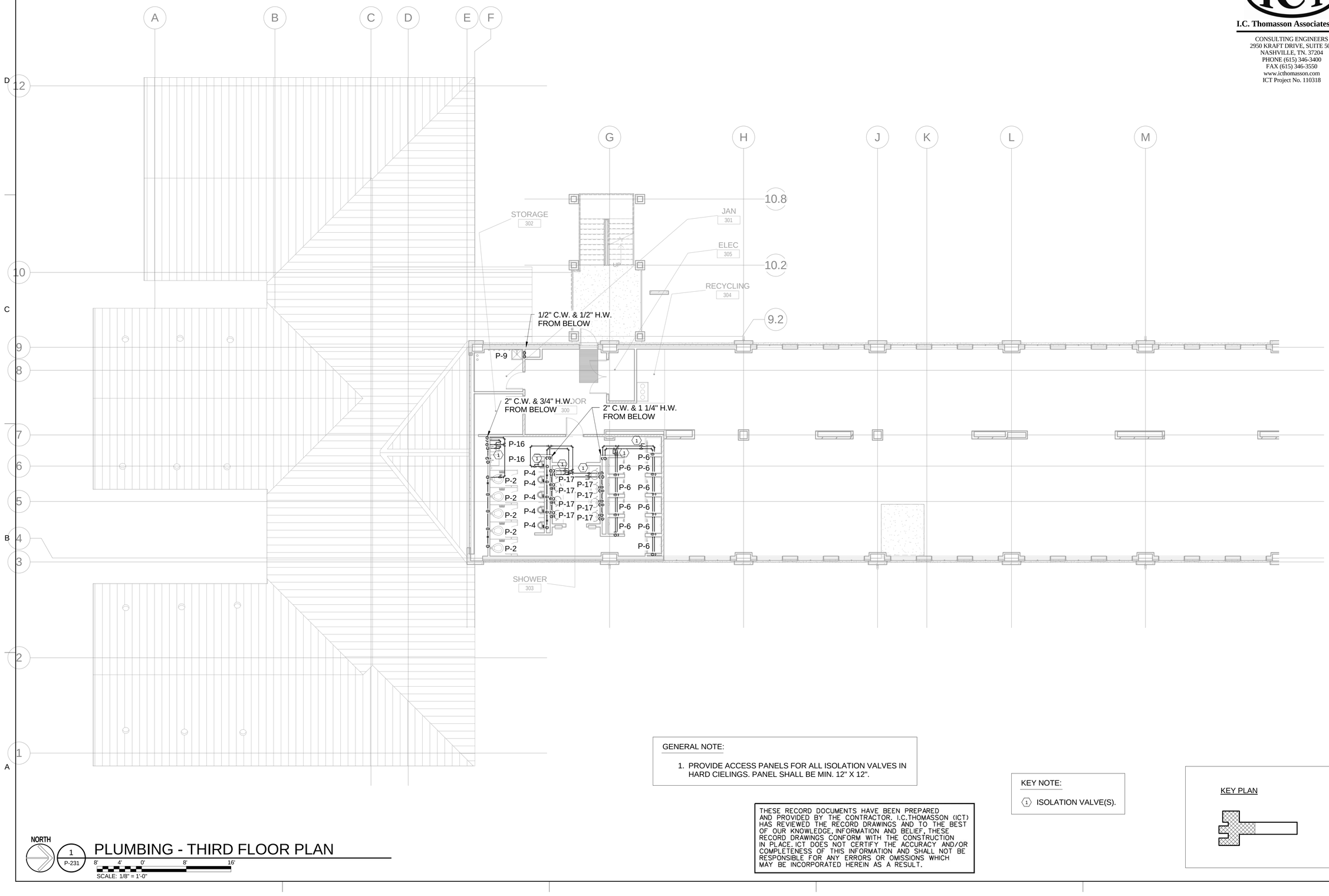
STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS
FL LIC.#AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
PLUMBING - SECOND FLOOR PLAN

PLATE REFERENCE NUMBER
P-222
SHEET 173

74278- P-222-



GENERAL NOTE:

1. PROVIDE ACCESS PANELS FOR ALL ISOLATION VALVES IN HARD CIELINGS. PANEL SHALL BE MIN. 12" X 12".

KEY NOTE:

(1) ISOLATION VALVE(S).

KEY PLAN

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

NORTH

1 / P-231

PLUMBING - THIRD FLOOR PLAN

8' 4' 0' 8' 16'

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

74278- P-231-

FINAL AS-BUILT DRAWINGS

I.C. Thomasson Associates, Inc.

CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

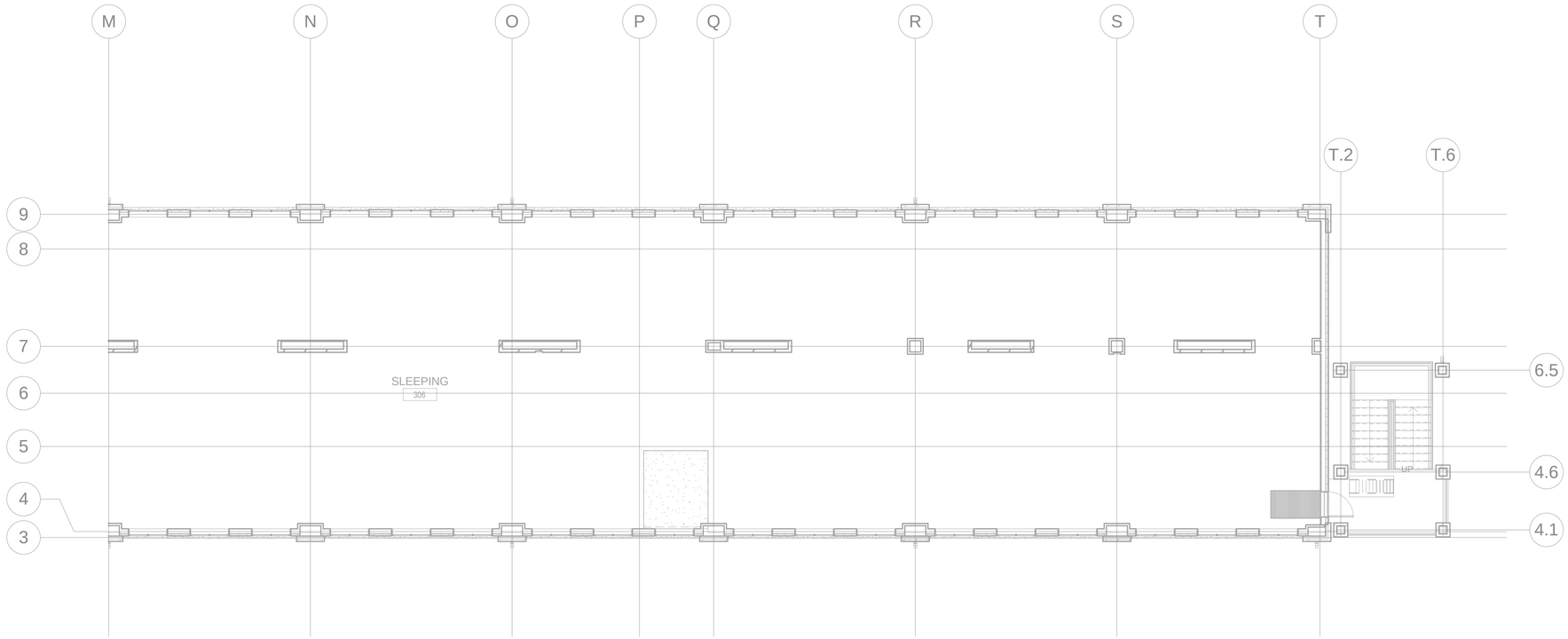
DESIGNED BY: ICT
DRAWN BY: ICT
CHECKED BY: ICT
SUBMITTED BY: ICT
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-S107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
FILE NAME: P231.DWG
PLOT SCALE: As Indicated
SIZE: 22" x 34"
PLOT DATE: 5/1/2015 3:49:35 PM

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
PLUMBING - THIRD FLOOR PLAN

PLATE REFERENCE NUMBER
P-231
SHEET 174



I.C. Thomasson Associates, Inc.

CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: ICT
DRAWN BY: ICT
SUBMITTED BY: ICT
FILE NAME: P232-PLUMBING PLAN.dwg
SIZE: 22" x 34"

ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-S107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
PLOT DATE: 5/1/2015 3:48:37 PM
PLOT SCALE: As indicated

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
PLUMBING - THIRD FLOOR PLAN

PLATE REFERENCE NUMBER
P-232
SHEET 175

FINAL AS-BUILT DRAWINGS

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

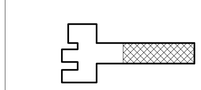
GENERAL NOTE:

1. PROVIDE ACCESS PANELS FOR ALL ISOLATION VALVES IN HARD CIELINGS. PANEL SHALL BE MIN. 12" X 12".
2. COORDINATE PLUMBING WITH HYDRONIC PIPING AND DUCTWORK IN CHASE. ROUTE CONDENSATE FOR MECHANICAL UNITS TO NEAREST HUB DRAINS.

KEY NOTE:

(1) ISOLATION VALVE(S).

KEY PLAN



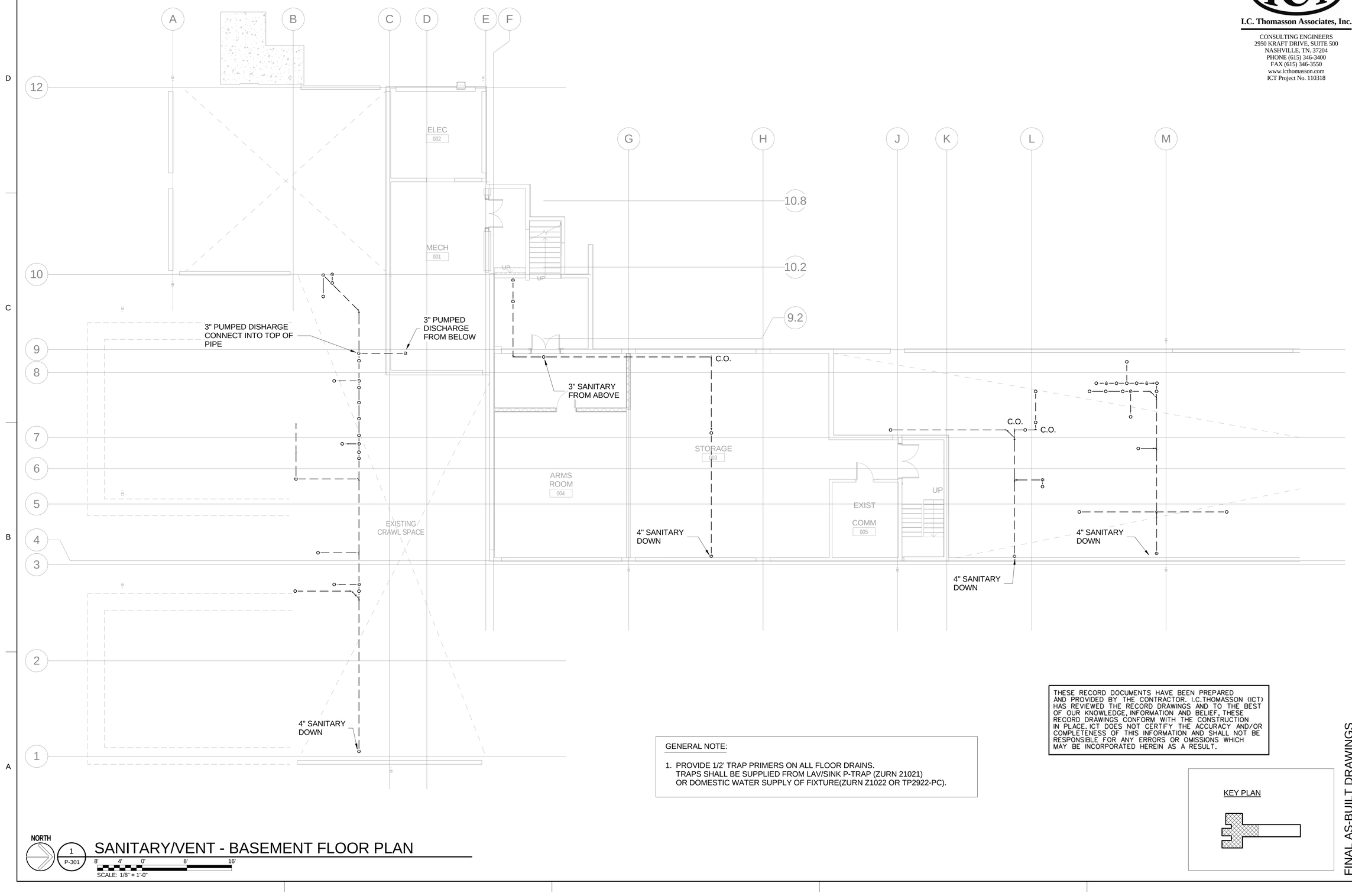
NORTH

1 / P-232

PLUMBING - THIRD FLOOR PLAN

8' 4' 0' 8' 16'
SCALE: 1/8" = 1'-0"

74278- P-232-



GENERAL NOTE:

1. PROVIDE 1/2' TRAP PRIMERS ON ALL FLOOR DRAINS. TRAPS SHALL BE SUPPLIED FROM LAV/SINK P-TRAP (ZURN 21021) OR DOMESTIC WATER SUPPLY OF FIXTURE(ZURN Z1022 OR TP2922-PC).

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

KEY PLAN

NORTH

1 / P-301

SANITARY/VENT - BASEMENT FLOOR PLAN

8' 4' 0' 8' 16'

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

74278- P-301-

FINAL AS-BUILT DRAWINGS

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.ictthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

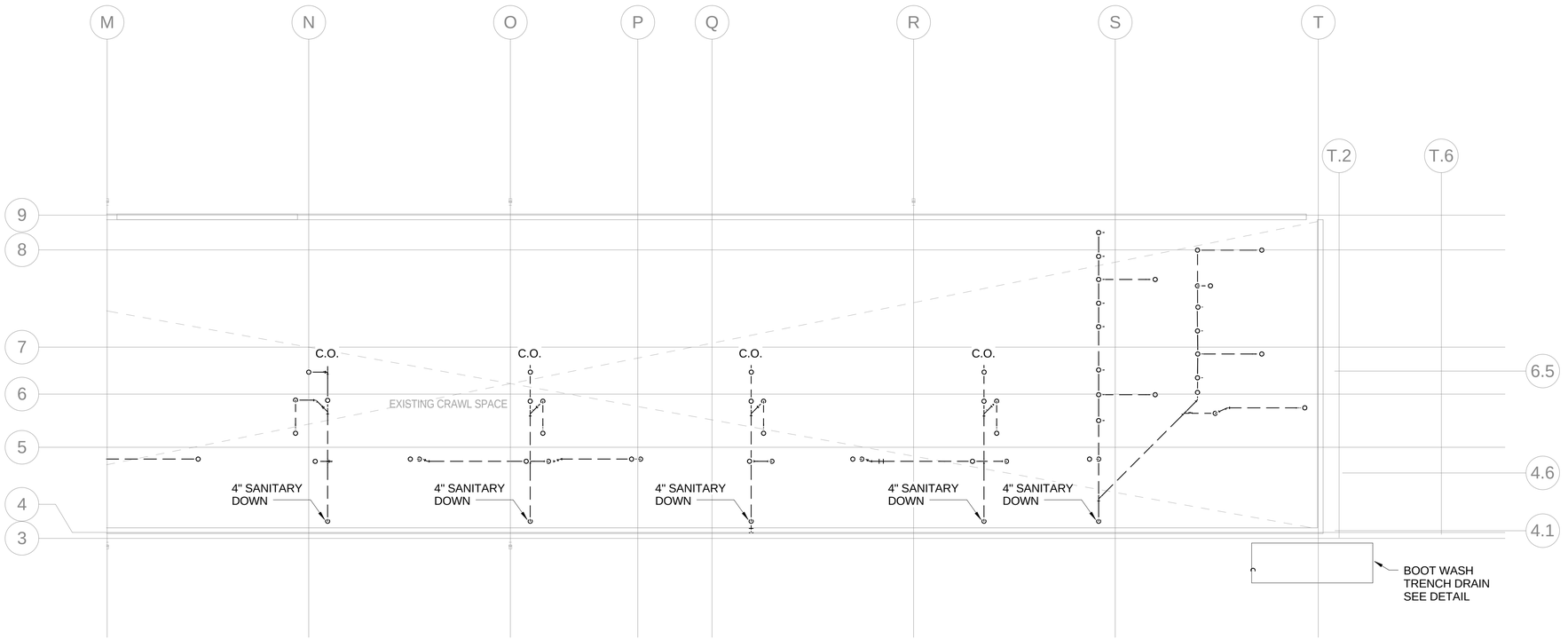
DESIGNED BY: ICT	ISSUE DATE: JUNE 2013
DRAWN BY: ICT	CHECKED BY: ICT
SUBMITTED BY: ICT	SOLICITATION NO.: W912HN-09-X-S107
FILE NAME: P301.DWG	CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
SIZE: 22" x 34"	CATEGORY CODE:
PLOT SCALE: As Indicated	PLOT DATE: 5/1/2015 3:49:38 PM

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
SANITARY/VENT - BASEMENT FLOOR PLAN

PLATE REFERENCE NUMBER
P-301
SHEET 176



NORTH

1 / P-302

SANITARY/VENT - BASEMENT FLOOR PLAN

8' 4' 0' 8' 16'

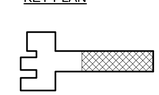
SCALE: 1/8" = 1'-0"

GENERAL NOTE:

1. PROVIDE 1/2' TRAP PRIMERS ON ALL FLOOR DRAINS. TRAPS SHALL BE SUPPLIED FROM LAV/SINK P-TRAP (ZURN 21021) OR DOMESTIC WATER SUPPLY OF FIXTURE(ZURN Z1022 OR TP2922-PC).

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

KEY PLAN



I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: ICT	DRAWN BY: ICT	SUBMITTED BY: ICT	FILE NAME: P302-SANITARY
ISSUE DATE: JUNE 2013	SOLICITATION NO.: W912HN-09-X-S107	CONTRACT NO.: W912HN-10-D-0049 T.O. 0007	CATEGORY CODE:
CHECKED BY: ICT			
SIZE: 22" x 34"	PLOT SCALE: As indicated	PLOT DATE: 5/1/2015 3:49:40 PM	

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

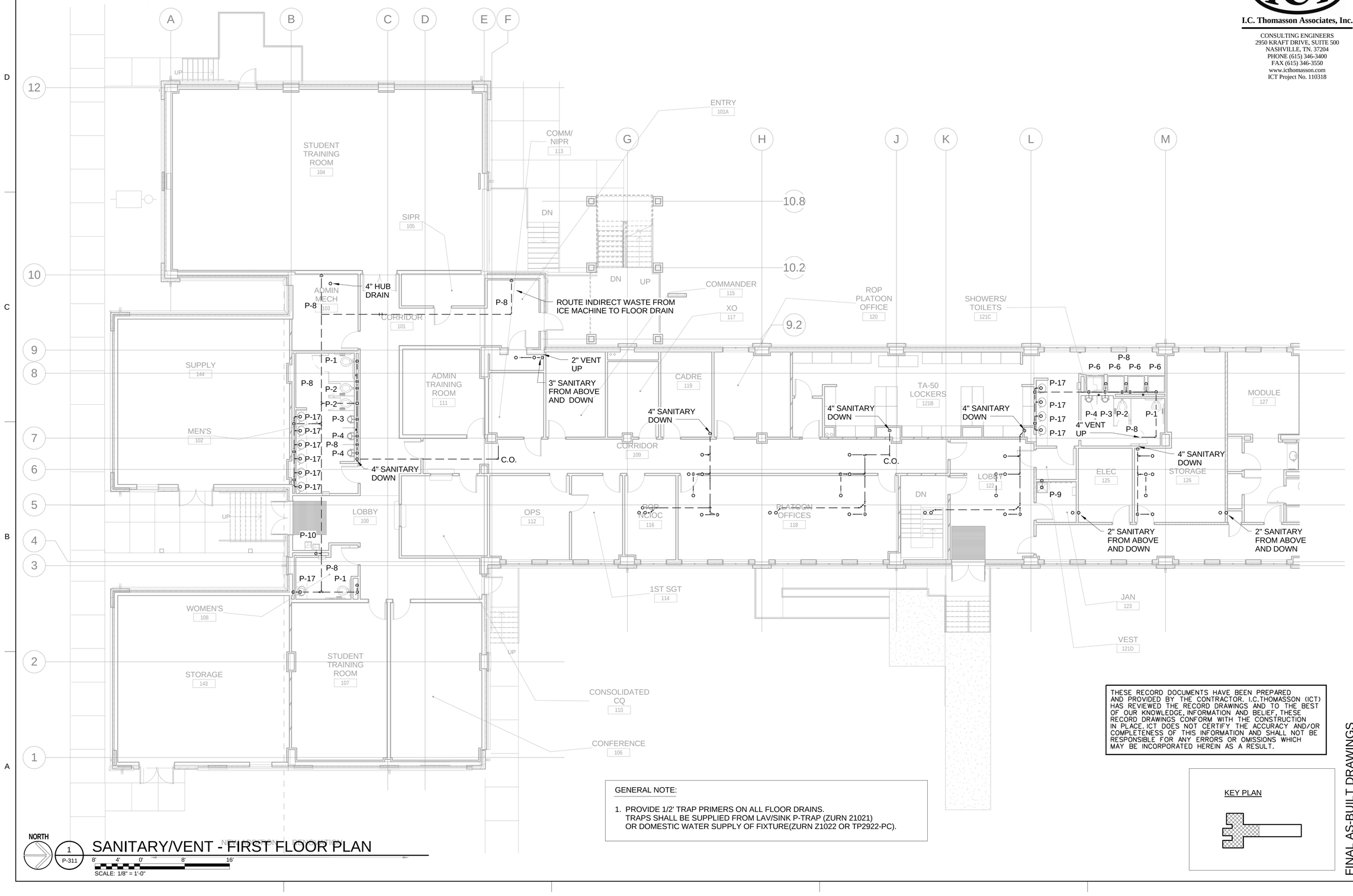
© 2012 STOA ARCHITECTS
FL LIC #AA0003584

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
SANITARY/VENT - BASEMENT FLOOR PLAN

PLATE REFERENCE NUMBER
P-302
SHEET 177

74278- P-302-



NORTH

1 / P-311

8' 4' 0' 8' 16'

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

SANITARY/VENT - FIRST FLOOR PLAN

NEW (DEMO) / RENOVATION

GENERAL NOTE:

1. PROVIDE 1/2' TRAP PRIMERS ON ALL FLOOR DRAINS. TRAPS SHALL BE SUPPLIED FROM LAV/SINK P-TRAP (ZURN 21021) OR DOMESTIC WATER SUPPLY OF FIXTURE(ZURN Z1022 OR TP2922-PC).

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

KEY PLAN

74278- P-311-

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.
2	AMENDMENT 002 BASEMENT CHANGES PER RFP MOD 00007 - RFP 0006	11/14/14	

DESIGNED BY: ICT	DRAWN BY: ICT	CHECKED BY: ICT	ISSUE DATE: JUNE 2013
SUBMITTED BY: ICT	FILE NAME: P311_1.dgn	SOLICITATION NO.: W912HN-09-X-5107	CONTRACT NO.: W912HN-10-D-0049 T.O. 0007
SIZE: 22" x 34"	PLOT SCALE: As Indicated	CATEGORY CODE:	PLOT DATE: 5/4/2015 11:29:03 AM

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003954

FINAL AS-BUILT DRAWINGS

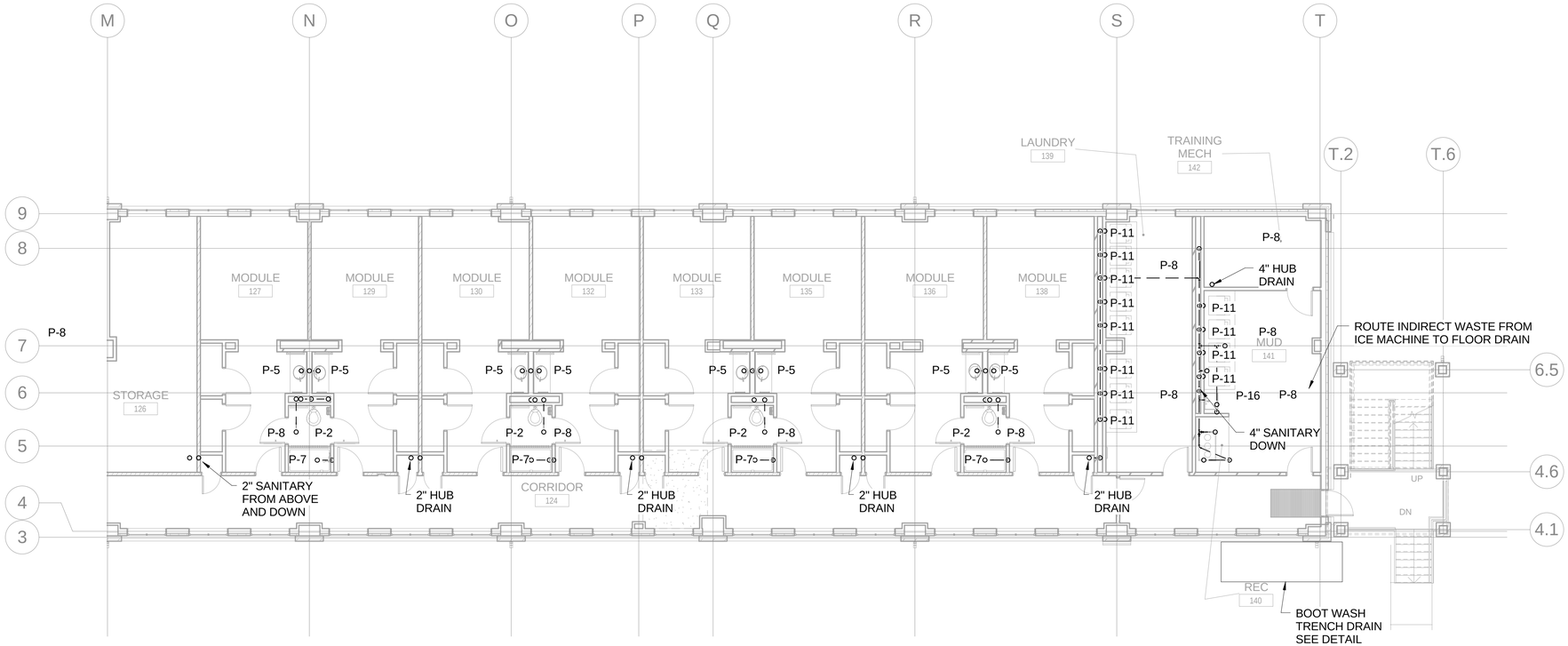
RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
SANITARY/VENT - FIRST FLOOR PLAN

PLATE REFERENCE NUMBER
P-311
SHEET 178

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.
2	AMENDMENT 002 BASEMENT CHANGES PER RFP MOD BO007 - RFP 0006	11/14/14	

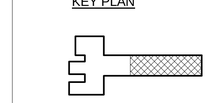


GENERAL NOTE:

1. PROVIDE 1/2' TRAP PRIMERS ON ALL FLOOR DRAINS. TRAPS SHALL BE SUPPLIED FROM LAV/SINK P-TRAP (ZURN 21021) OR DOMESTIC WATER SUPPLY OF FIXTURE(ZURN Z1022 OR TP2922-PC).

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

KEY PLAN



NORTH

1 / P-312 SANITARY/VENT - FIRST FLOOR PLAN

8' 4' 0' 8' 16'
SCALE: 1/8" = 1'-0"

FINAL AS-BUILT DRAWINGS

DESIGNED BY:	ISSUE DATE: JUNE 2013
ICT	
DRAWN BY:	CHECKED BY:
ICT	ICT
SUBMITTED BY:	SOLICITATION NO.: W912HN-09-X-S107
ICT	CONTRACT NO.: W912HN-10-D-0049 T.O. 0007
FILE NAME: P-312.dwg	CATEGORY CODE:
SIZE: 22" x 34"	PLOT SCALE: As indicated
	PLOT DATE: 5/4/2015 11:29:06 AM

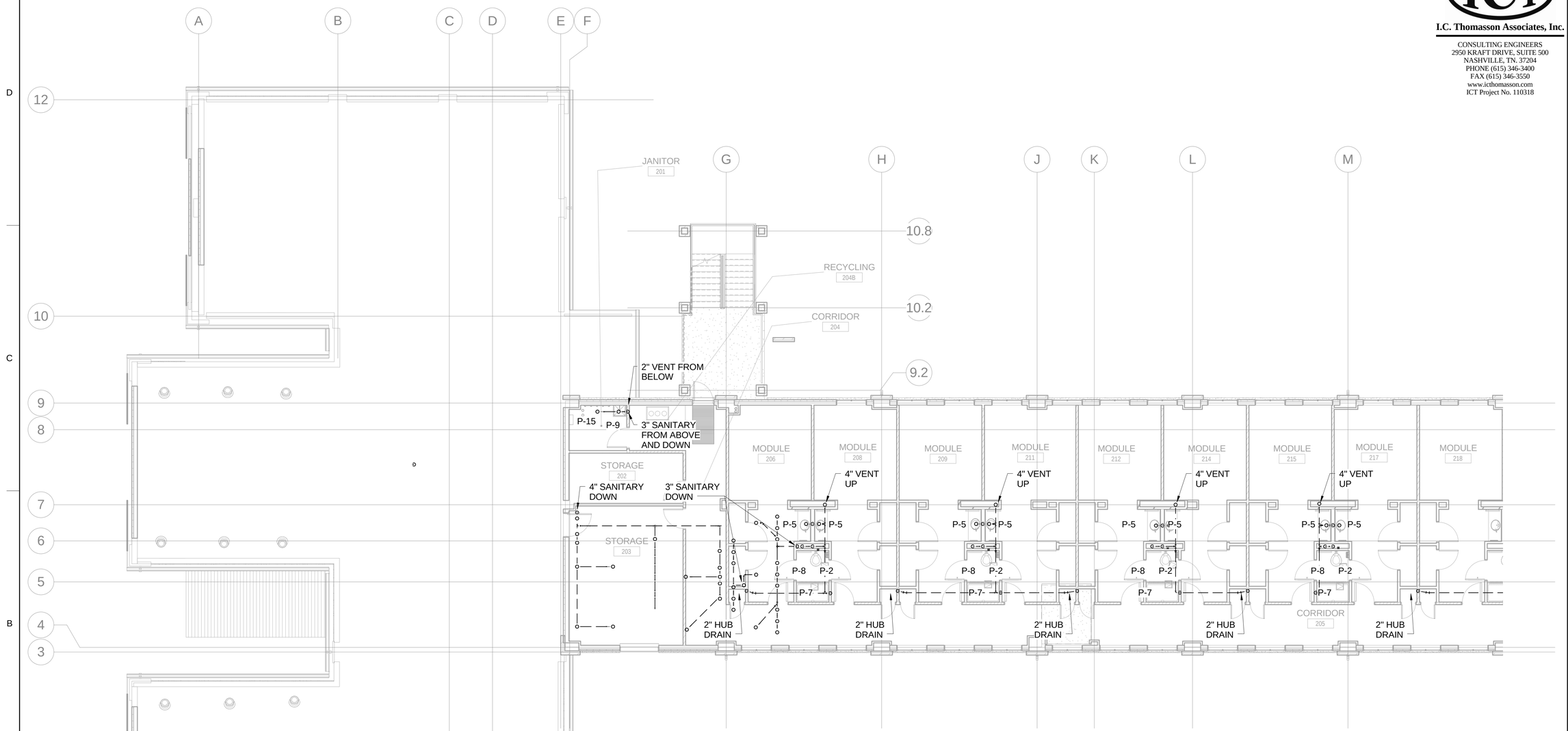
US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC.#AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
SANITARY/VENT - FIRST FLOOR PLAN

PLATE REFERENCE NUMBER
P-312
SHEET 179

74278- P-312-

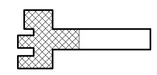


GENERAL NOTE:

1. PROVIDE 1/2' TRAP PRIMERS ON ALL FLOOR DRAINS. TRAPS SHALL BE SUPPLIED FROM LAV/SINK P-TRAP (ZURN 21021) OR DOMESTIC WATER SUPPLY OF FIXTURE(ZURN Z1022 OR TP2922-PC).

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

KEY PLAN



NORTH

1 / P-321

8' 4' 0' 8' 16'

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

SANITARY/VENT - SECOND FLOOR PLAN

74278- P-321-

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
SANITARY/VENT - SECOND FLOOR PLAN

PLATE REFERENCE NUMBER
P-321
SHEET 180

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

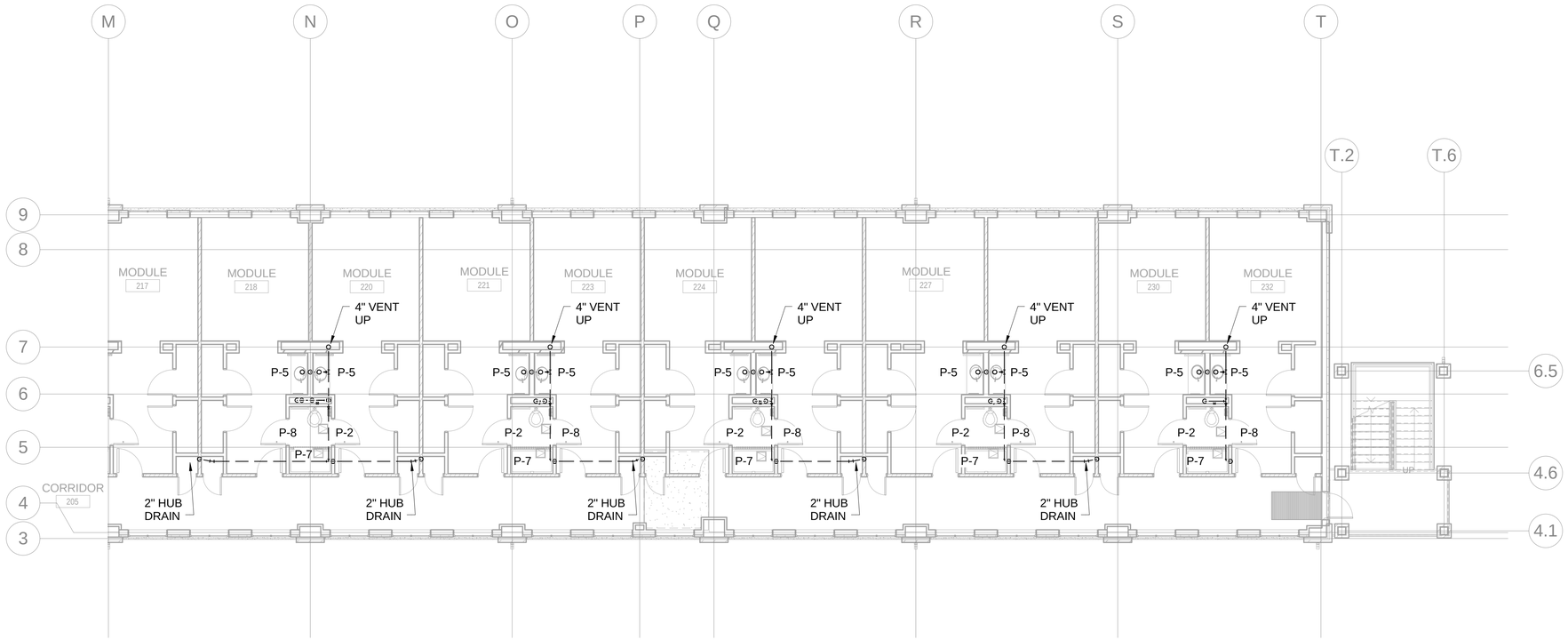
DESIGNED BY: ICT	ISSUE DATE: JUNE 2013	SOLICITATION NO.: W912HN-09-X-5107	
DRAWN BY: ICT	CHECKED BY: ICT	CONTRACT NO.: W912HN-10-D-0049 T.O. 0007	
SUBMITTED BY: ICT	FILE NAME: P-321.dgn	CATEGORY CODE:	
SIZE: 22" x 34"	PLOT SCALE: As Indicated	PLOT DATE: 5/1/2015 3:49:50 PM	

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS

FL LIC #AA0003564



GENERAL NOTE:

1. PROVIDE 1/2' TRAP PRIMERS ON ALL FLOOR DRAINS. TRAPS SHALL BE SUPPLIED FROM LAV/SINK P-TRAP (ZURN 21021) OR DOMESTIC WATER SUPPLY OF FIXTURE(ZURN Z1022 OR TP2922-PC).

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

KEY PLAN

NORTH

1 / P-322

SANITARY/VENT - SECOND FLOOR PLAN

8' 4' 0' 8' 16'

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

FINAL AS-BUILT DRAWINGS

I.C. Thomasson Associates, Inc.

CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: ICT
DRAWN BY: ICT
SUBMITTED BY: ICT
FILE NAME: P322-SVA.dgn
SIZE: 22" x 34"

ISSUE DATE: JUNE 2013
CHECKED BY: ICT
SOLICITATION NO.: W912HN-09-X-S107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
PLOT SCALE: As Indicated
PLOT DATE: 5/1/2015 3:49:53 PM

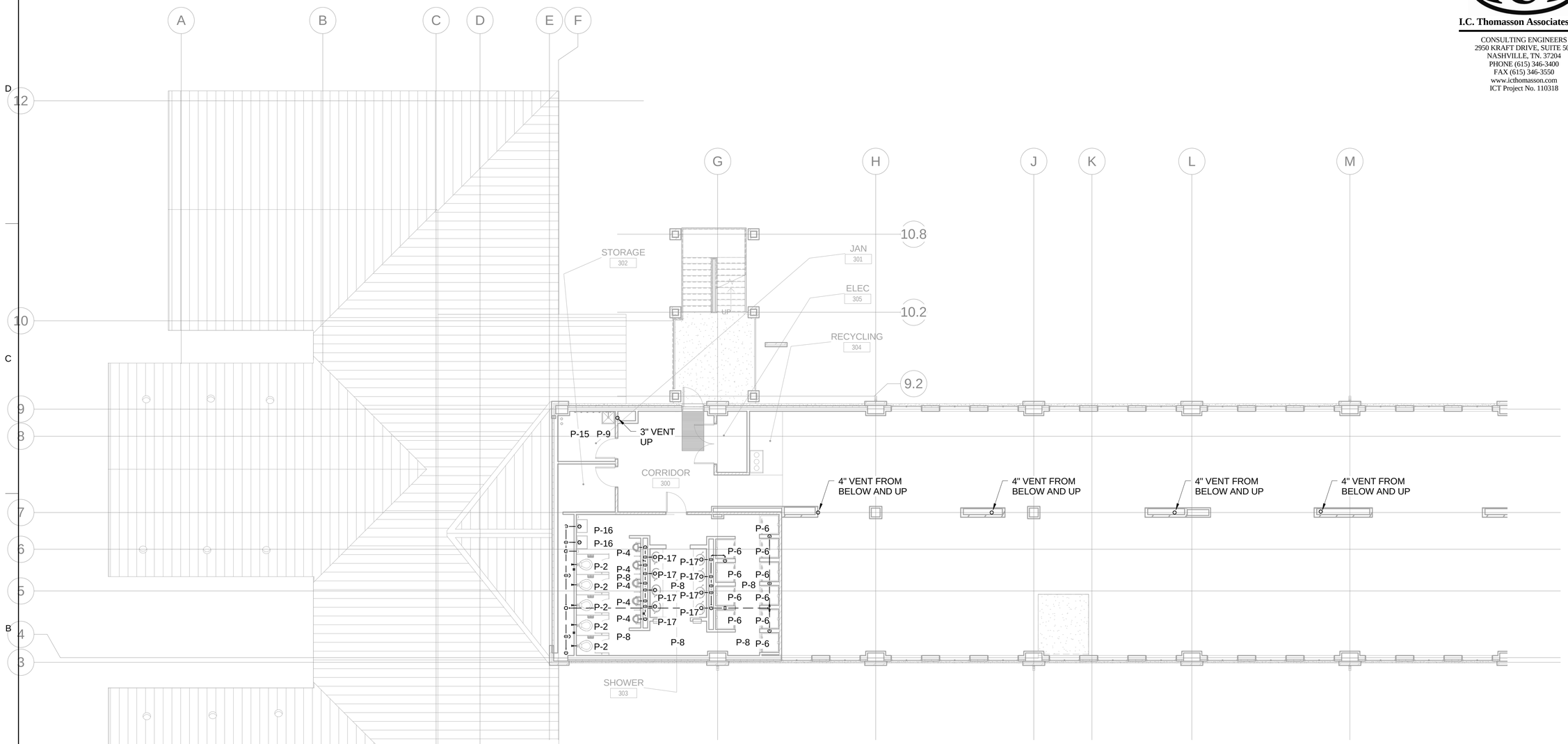
US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
SANITARY/VENT - SECOND FLOOR PLAN

PLATE REFERENCE NUMBER
P-322
SHEET 181

74278- P-322-

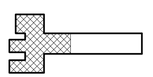


THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

GENERAL NOTE:

1. PROVIDE 1/2' TRAP PRIMERS ON ALL FLOOR DRAINS. TRAPS SHALL BE SUPPLIED FROM LAV/SINK P-TRAP (ZURN 21021) OR DOMESTIC WATER SUPPLY OF FIXTURE(ZURN Z1022 OR TP2922-PC).

KEY PLAN



NORTH

1 / P-331

SANITARY/VENT - THIRD FLOOR PLAN

8' 4' 0' 8' 16'

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

74278- P-331-

FINAL AS-BUILT DRAWINGS

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

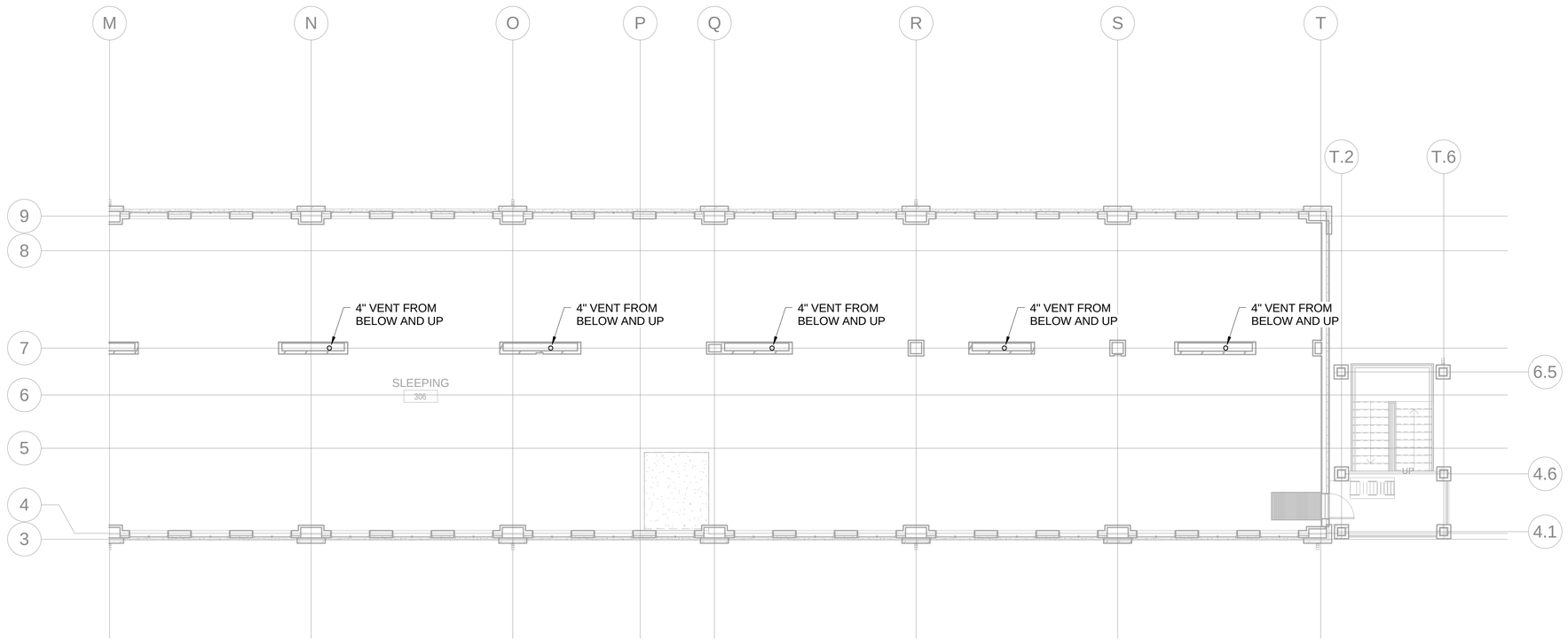
DESIGNED BY: ICT	DRAWN BY: ICT	CHECKED BY: ICT	ISSUE DATE: JUNE 2013
SUBMITTED BY: ICT	FILE NAME: P331.DGN	SOLICITATION NO.: W912HN-09-X-S107	CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
SIZE: 22" x 34"	PLOT SCALE: As Indicated	CATEGORY CODE:	PLOT DATE: 5/1/2015 3:49:56 PM

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
SANITARY/VENT - THIRD FLOOR PLAN

PLATE REFERENCE NUMBER
P-331
SHEET 182



NORTH

1
P-332

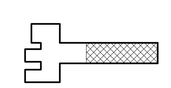
SANITARY/VENT - THIRD FLOOR PLAN

8' 4' 0' 8' 16'

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

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

KEY PLAN



FINAL AS-BUILT DRAWINGS

I.C. Thomasson Associates, Inc.

CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: ICT	CHECKED BY: ICT	ISSUE DATE: JUNE 2013	
DRAWN BY: ICT		SOLICITATION NO.: W912HN-09-X-S107	
SUBMITTED BY: ICT		CONTRACT NO.: W912HN-10-D-0048 T.O. 0007	
FILE NAME: P332-3RD-SAN		CATEGORY CODE:	
SIZE: 22" x 34"	PLOT SCALE: As indicated	PLOT DATE: 5/1/2015 3:49:57 PM	

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

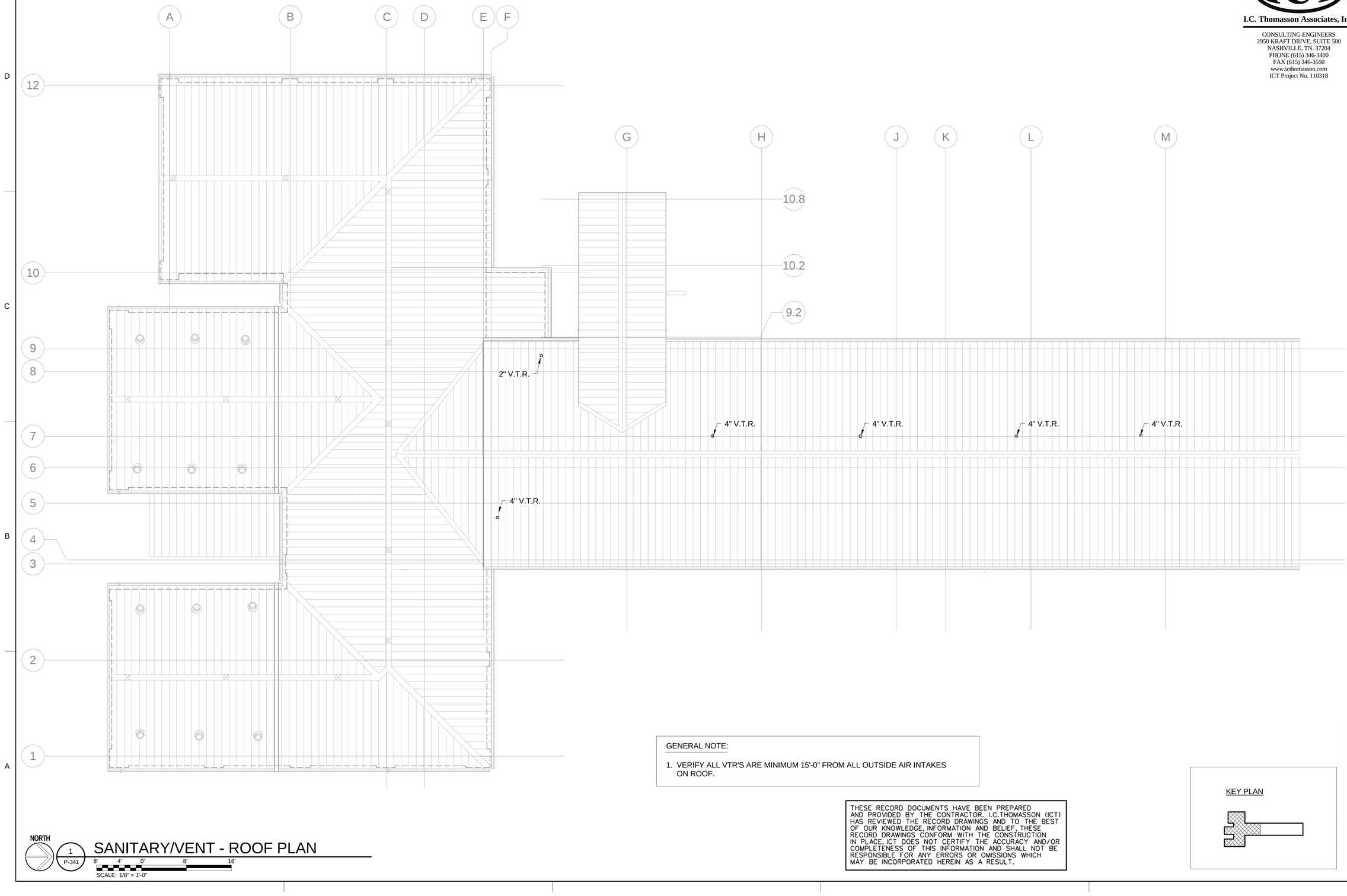
© 2012 STOA ARCHITECTS

FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
SANITARY/VENT - THIRD FLOOR PLAN

PLATE REFERENCE NUMBER
P-332
SHEET 163

74278- P-332-



GENERAL NOTE:

1. VERIFY ALL VTR'S ARE MINIMUM 15'-0" FROM ALL OUTSIDE AIR INTAKES ON ROOF.

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

KEY PLAN

NORTH

1 / P-341

SANITARY/VENT - ROOF PLAN

8' 4' 0' 8' 16'

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

74278- P-341-

FINAL AS-BUILT DRAWINGS

I.C. Thomasson Associates, Inc.

CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: ICT
DRAWN BY: ICT
CHECKED BY: ICT
SUBMITTED BY: ICT
FILE NAME: P341.dgn
SIZE: 22" x 34"
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-S107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
PLOT DATE: 5/1/2015 3:49:59 PM
PLOT SCALE: As Indicated

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS
FL LIC #AA0003564

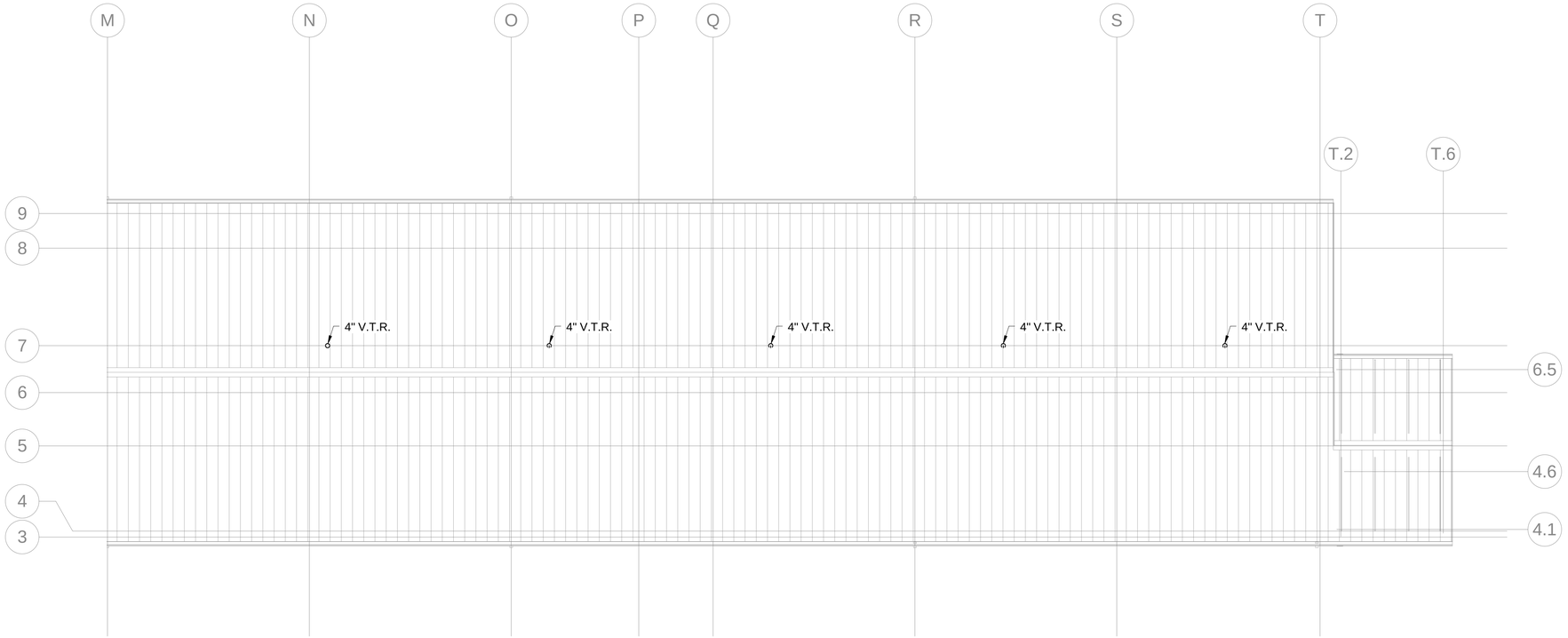
RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
SANITARY/VENT - ROOF FLOOR PLAN

PLATE REFERENCE NUMBER
P-341
SHEET 184

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

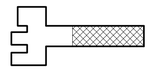


GENERAL NOTE:

1. VERIFY ALL VTR'S ARE MINIMUM 15'-0" FROM ALL OUTSIDE AIR INTAKES ON ROOF.

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

KEY PLAN



NORTH

1 / P-342 SANITARY/VENT - ROOF PLAN

8' 4' 0' 8' 16'
SCALE: 1/8" = 1'-0"

FINAL AS-BUILT DRAWINGS

DESIGNED BY: ICT	ISSUE DATE: JUNE 2013
DRAWN BY: ICT	CHECKED BY: ICT
SUBMITTED BY: ICT	SOLICITATION NO.: W912HN-09-X-5107
FILE NAME: P342A.dwg	CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
SIZE: 22" x 34"	CATEGORY CODE:
	PLOT DATE: 5/1/2015 3:50:01 PM
	PLOT SCALE: As Indicated

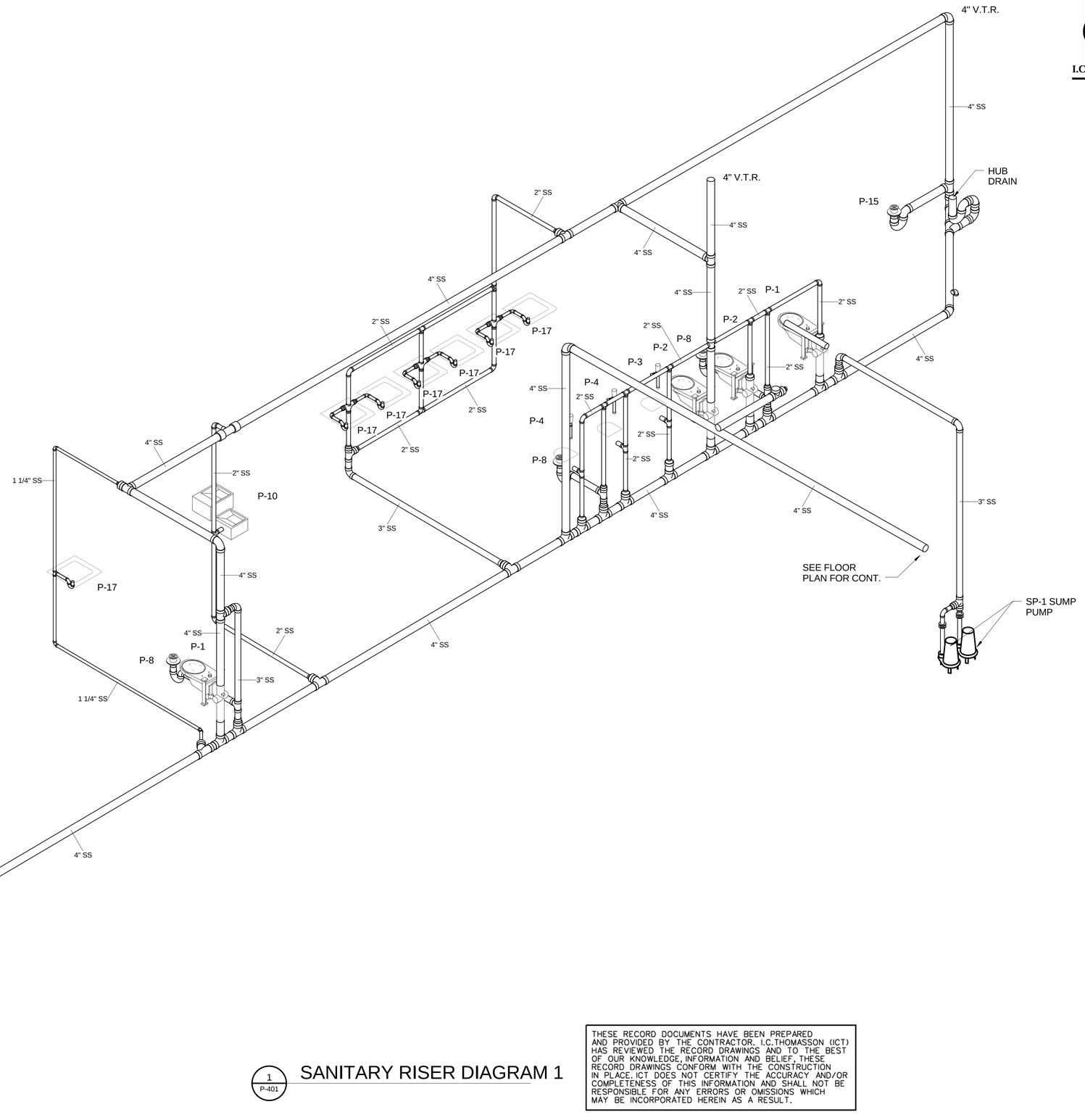
US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
SANITARY/VENT - ROOF FLOOR PLAN

PLATE REFERENCE NUMBER
P-342
SHEET 185

74278- P-342-



1 / P-401 SANITARY RISER DIAGRAM 1

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

FINAL AS-BUILT DRAWINGS

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.ictthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: ICT
DRAWN BY: ICT
CHECKED BY: ICT
SUBMITTED BY: ICT
FILE NAME: FLR_RISER_DIAGRAM
SIZE: 22" x 34"
PLOT SCALE:
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
PLOT DATE: 5/1/2015 3:50:04 PM

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

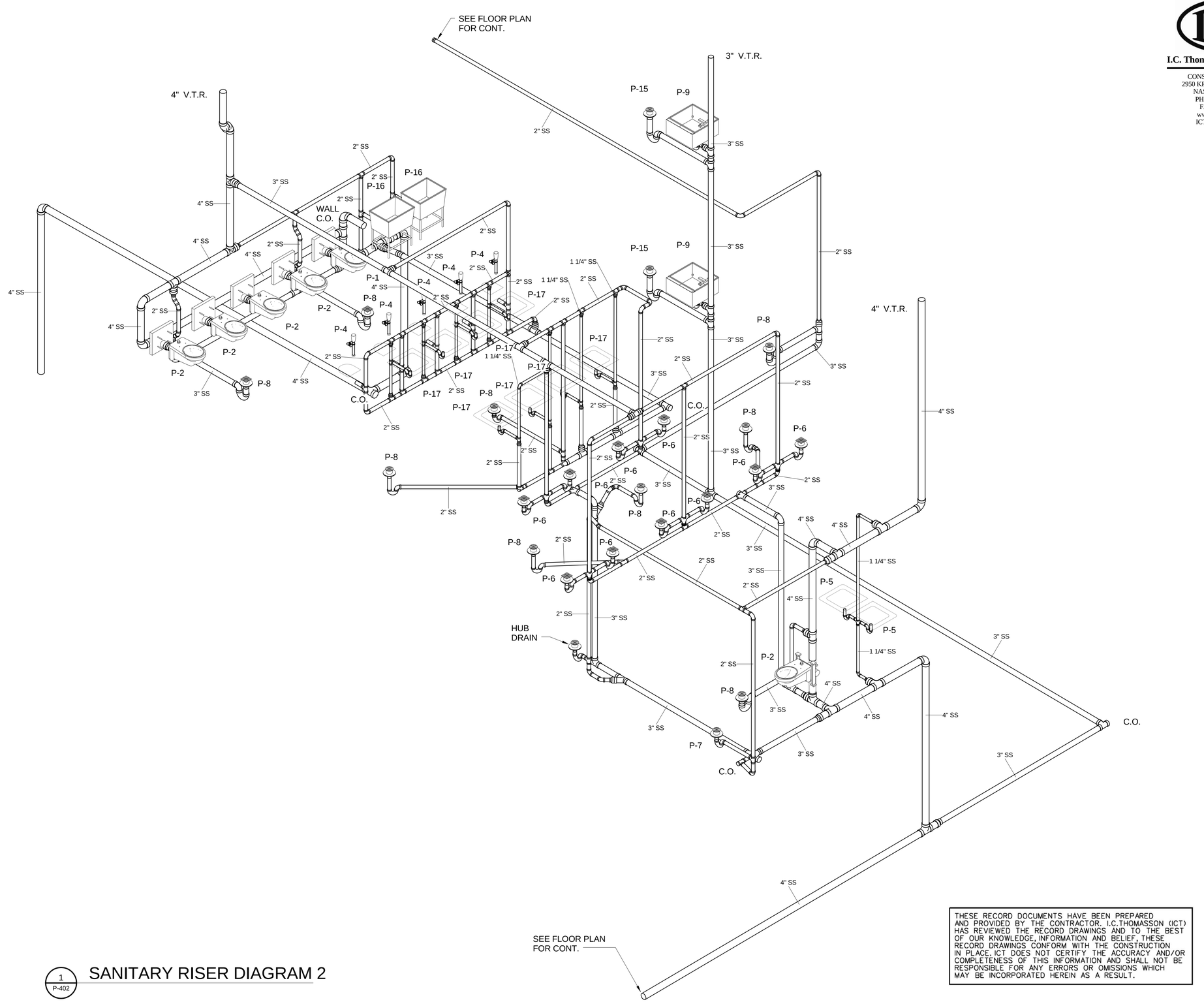
STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
SANITARY RISER DIAGRAM

PLATE REFERENCE NUMBER
P-401
SHEET 186

74278- P-401-



THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

1 P-402 SANITARY RISER DIAGRAM 2

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.
2	AMENDMENT 002 BASEMENT CHANGES PER RFP MOD 00007 - RFP 0006	11/14/14	

DESIGNED BY: ICT		ISSUE DATE: JUNE 2013	
DRAWN BY: ICT	CHECKED BY: ICT	SOLICITATION NO.: W912HN-09-X-5107	
SUBMITTED BY: ICT		CONTRACT NO.: W912HN-10-D-0049 T.O. 0007	
FILE NAME: P402.DWG		CATEGORY CODE:	
SIZE: 22" x 34"	PLOT SCALE:	PLOT DATE: 5/4/2015 11:29:12 AM	

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

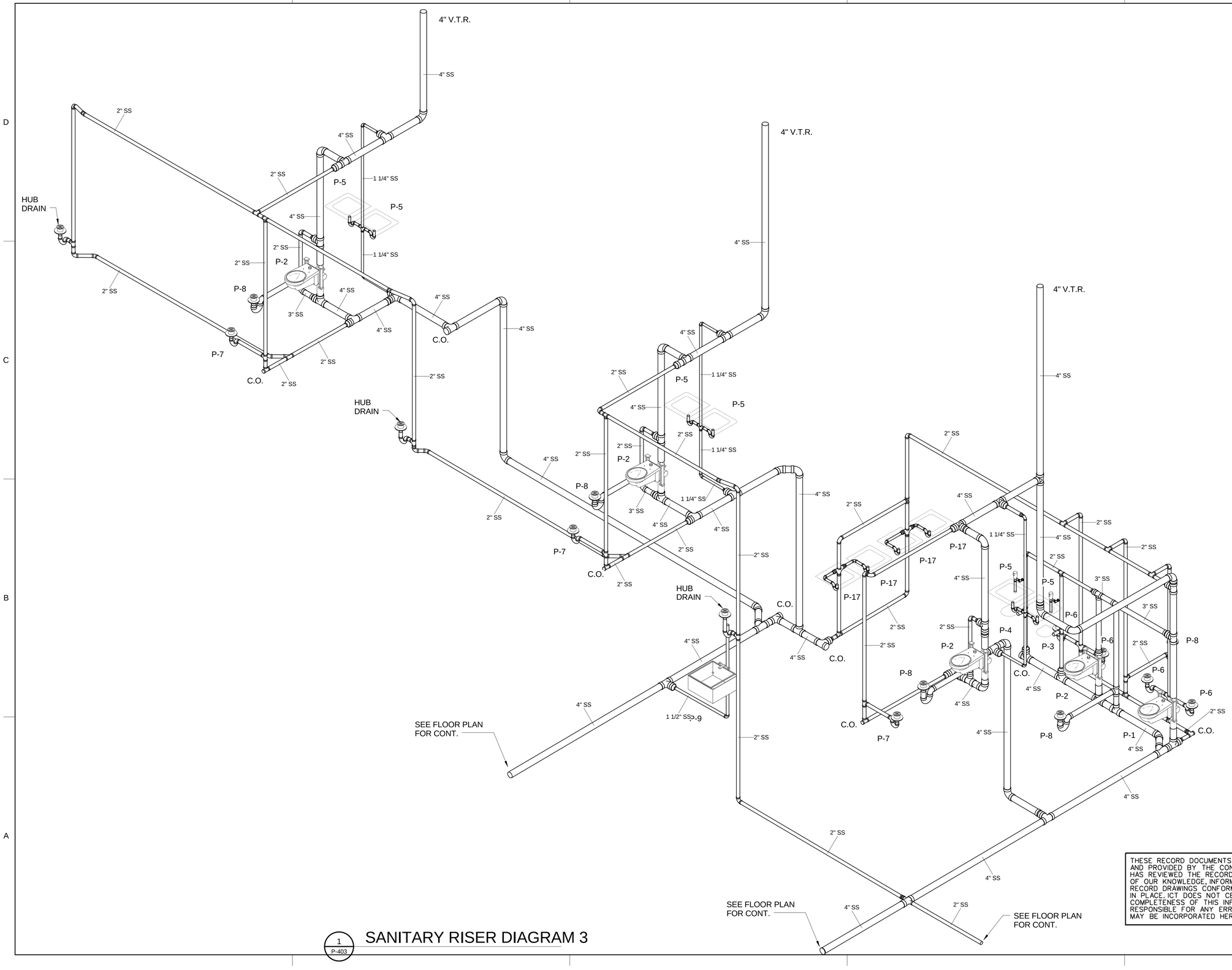
STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC # AA0003564

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
SANITARY RISER DIAGRAM

PLATE REFERENCE NUMBER
P-402
SHEET 187

74278- P-402-



THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

1 P-403 SANITARY RISER DIAGRAM 3

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.ictthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: ICT | ISSUE DATE: JUNE 2013
DRAWN BY: ICT | CHECKED BY: ICT | SOLICITATION NO.: W912HN-09-X-5107
SUBMITTED BY: ICT | CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
FILE NAME: P403SANITARY | CATEGORY CODE:
SIZE: 22" x 34" | PLOT SCALE: | PLOT DATE: 5/1/2015 3:50:13 PM

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

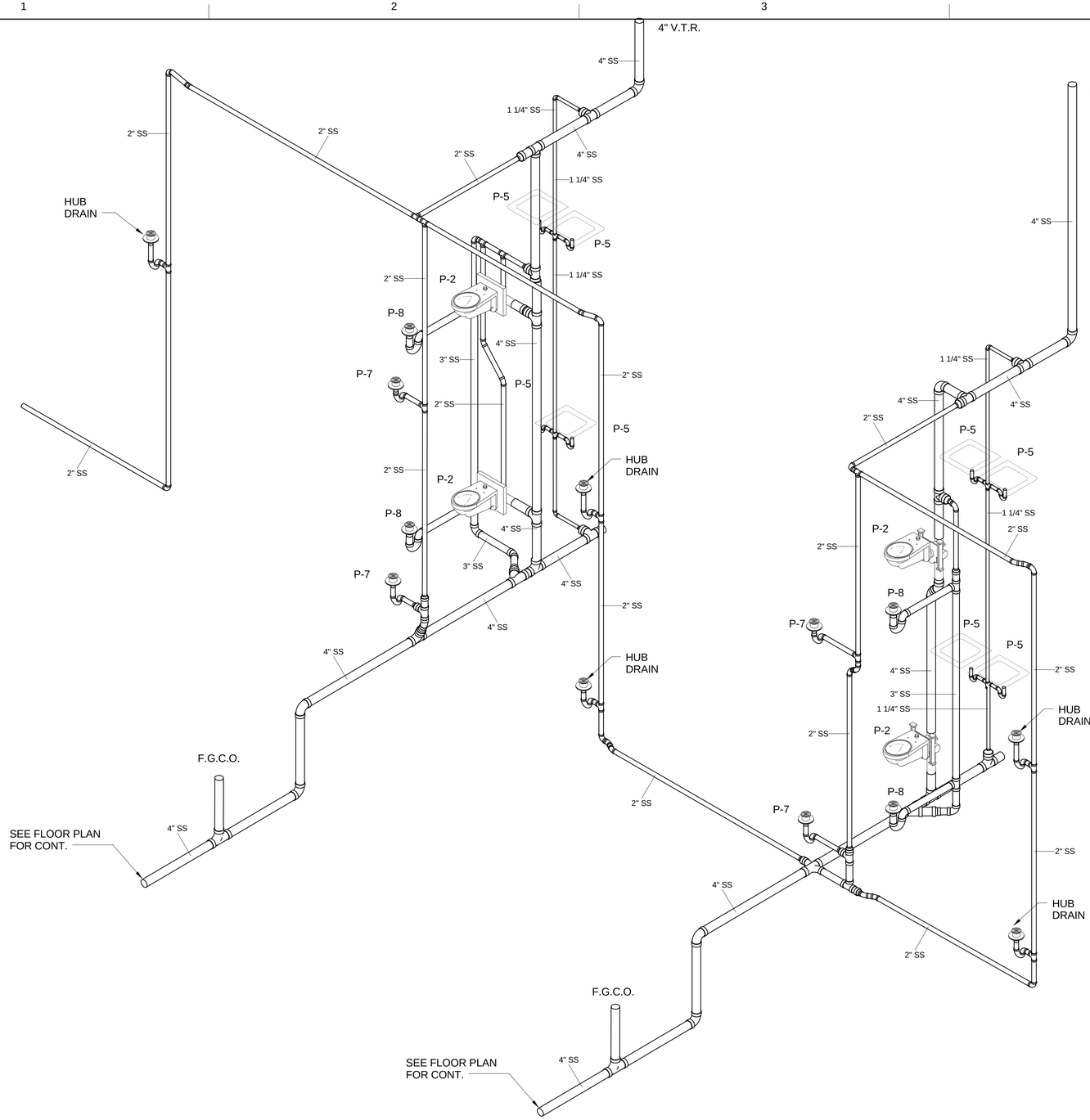
STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FLORIDA 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

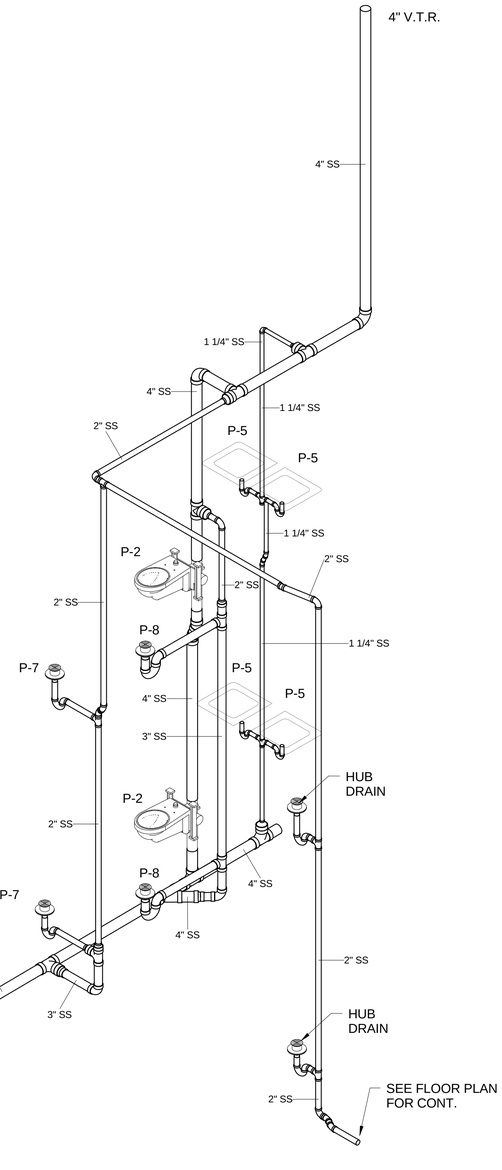
FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
SANITARY RISER DIAGRAM

PLATE REFERENCE NUMBER
P-403
SHEET 188

74278- P-403-





THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

1 / P-404 SANITARY RISER DIAGRAM 4

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.ictthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: ICT	DRAWN BY: ICT	CHECKED BY: ICT	ISSUE DATE: JUNE 2013
SUBMITTED BY: ICT	FILE NAME: P-404.DWG	SOLICITATION NO.: W912HN-09-X-S107	CONTRACT NO.: W912HN-10-D0048 T.O. 0007
SIZE: 22" x 34"	PLOT SCALE: 1.000'	CATEGORY CODE:	PLOT DATE: 5/1/2015 3:50:17 PM

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

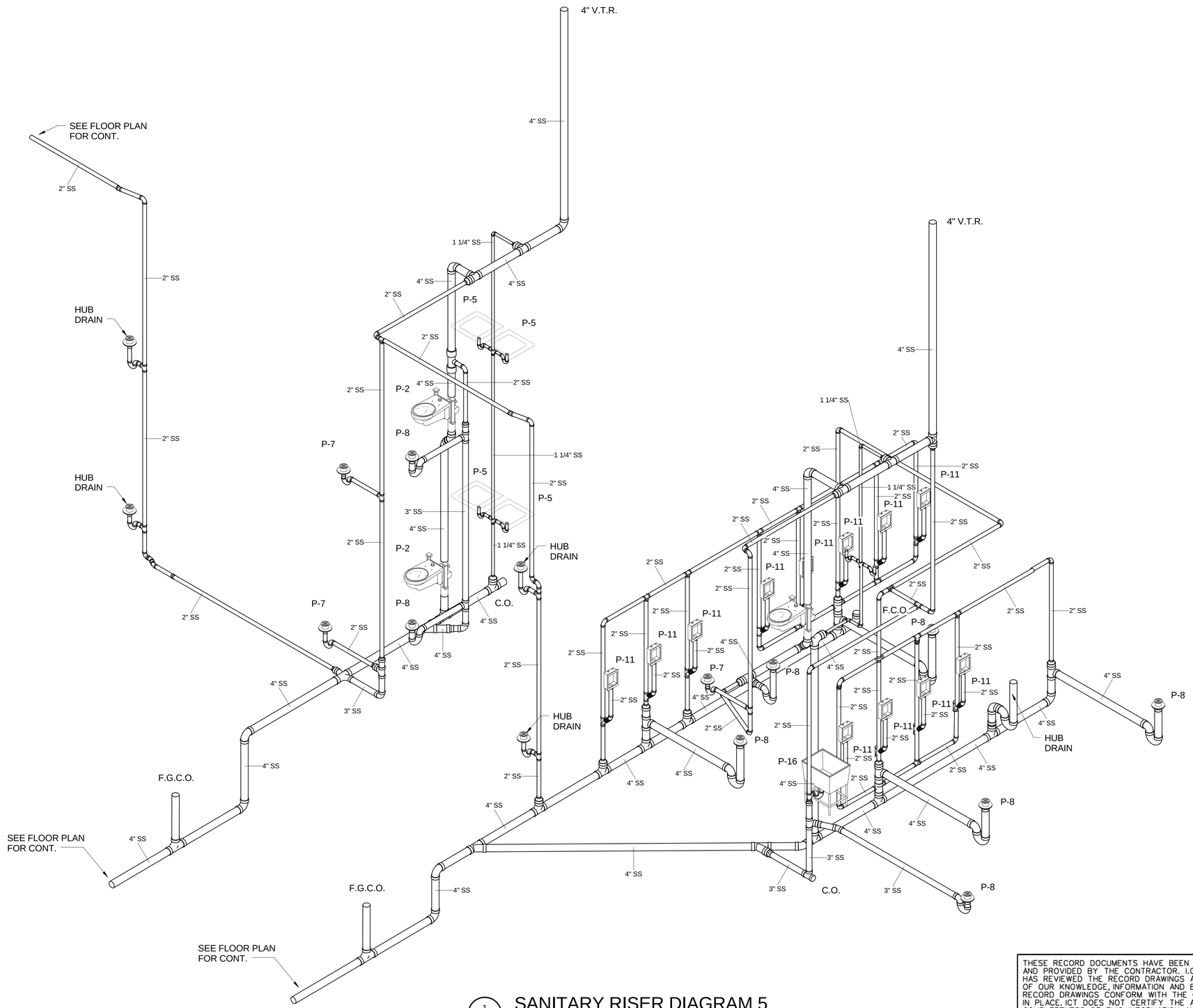
STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
SANITARY RISER DIAGRAM

PLATE REFERENCE NUMBER
P-404
SHEET 189

74278- P-404-



1 / P-405 SANITARY RISER DIAGRAM 5

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.
2	AMENDMENT 002 BASEMENT CHANGES PER RFP MOD B0007 - RFP-0006	11/14/14	

DESIGNED BY: ICT
DRAWN BY: ICT
SUBMITTED BY: ICT
SIZE: 22" x 34"
ISSUE DATE: JUNE 2013
CHECKED BY: ICT
FILE NAME: P405-SHEET.DGN
PLOT SCALE:
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
PLOT DATE: 5/4/2015 11:29:16 AM

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

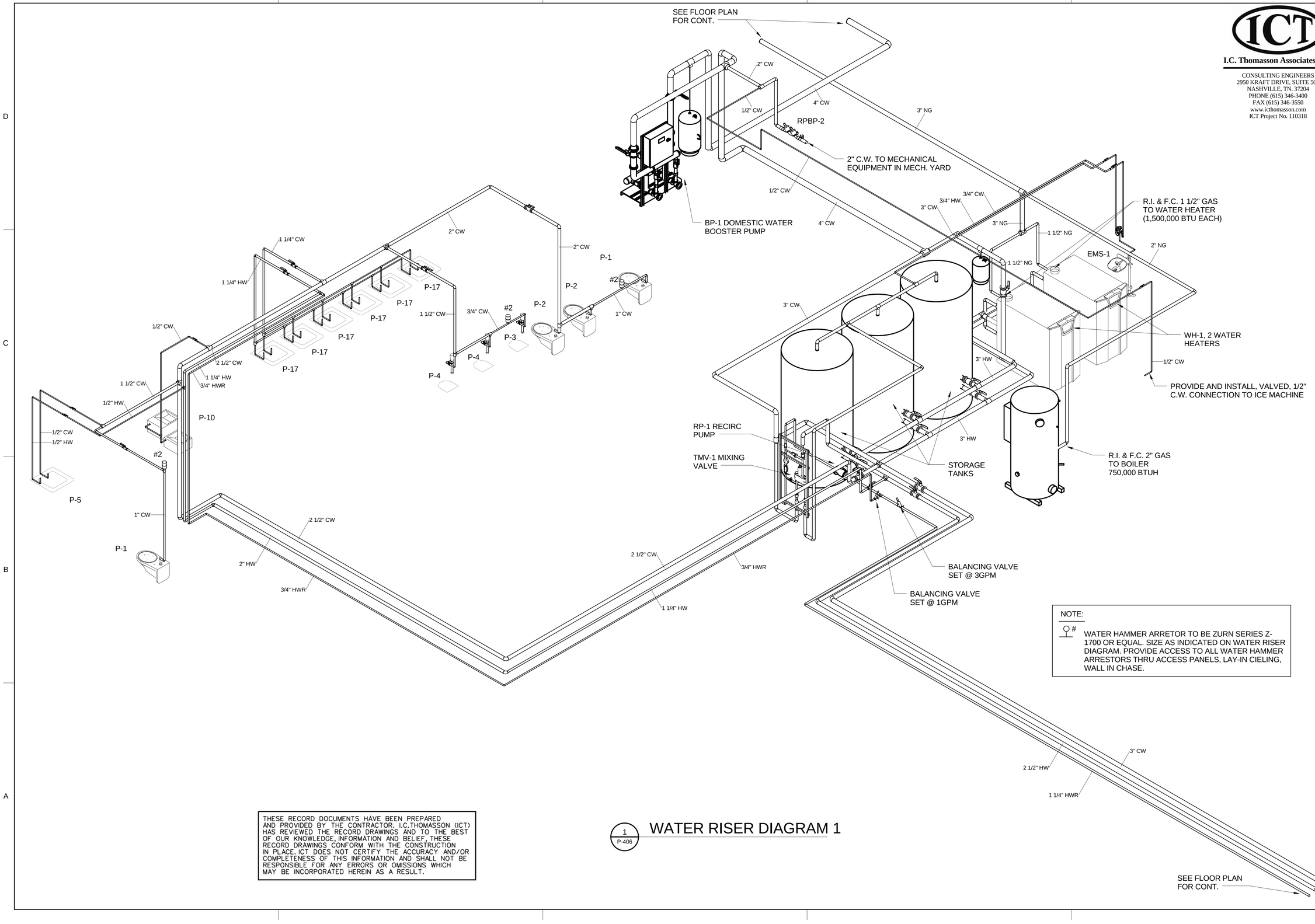
STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
SANITARY RISER DIAGRAM

PLATE REFERENCE NUMBER
P-405
SHEET 190

74278- P-405-



NOTE:

#

WATER HAMMER ARRETOR TO BE ZURN SERIES Z-1700 OR EQUAL. SIZE AS INDICATED ON WATER RISER DIAGRAM. PROVIDE ACCESS TO ALL WATER HAMMER ARRESTORS THRU ACCESS PANELS, LAY-IN CIELING, WALL IN CHASE.

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

1 / P-406 WATER RISER DIAGRAM 1

FINAL AS-BUILT DRAWINGS

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.ictthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.
2	AMENDMENT 002 BASEMENT CHANGES PER RFP MOD 00007 - RFP-0006	11/14/14	

DESIGNED BY: ICT
DRAWN BY: ICT
CHECKED BY: ICT
SUBMITTED BY: ICT
FILE NAME: P406.DWG
SIZE: 22" x 34"
PLOT SCALE:
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
PLOT DATE: 5/4/2015 11:29:21 AM

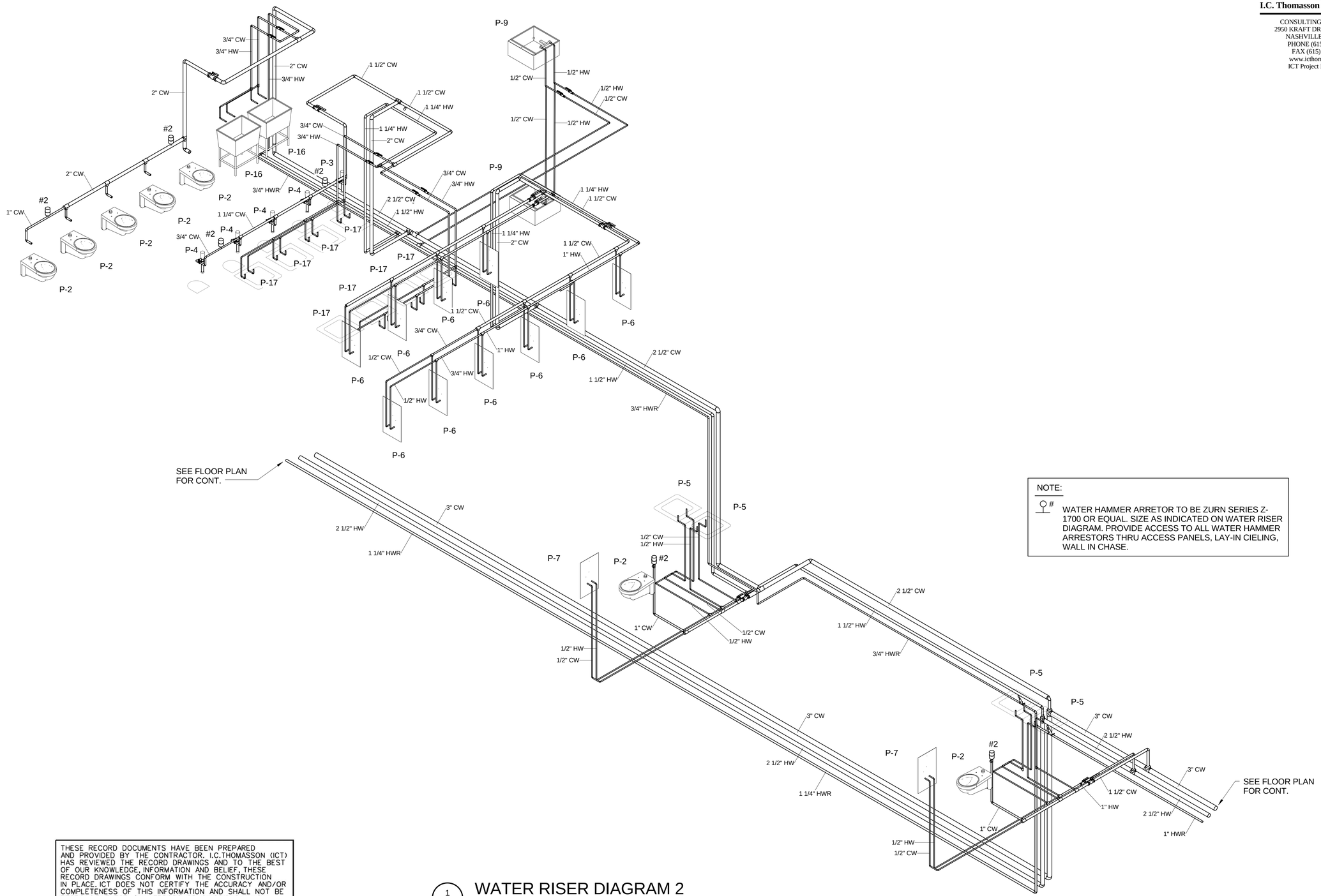
US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
PLUMBING RISER DIAGRAM

PLATE REFERENCE NUMBER
P-406
SHEET 191

74278- P-406-



NOTE:

#

WATER HAMMER ARRETOR TO BE ZURN SERIES Z-1700 OR EQUAL. SIZE AS INDICATED ON WATER RISER DIAGRAM. PROVIDE ACCESS TO ALL WATER HAMMER ARRESTORS THRU ACCESS PANELS, LAY-IN CIELING, WALL IN CHASE.

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

1 / P-407 WATER RISER DIAGRAM 2

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: ICT | DRAWN BY: ICT | CHECKED BY: ICT | SUBMITTED BY: ICT
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
FILE NAME: P407-PLUMBING
PLOT DATE: 5/1/2015 3:50:31 PM
SIZE: 22" x 34" | PLOT SCALE:

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

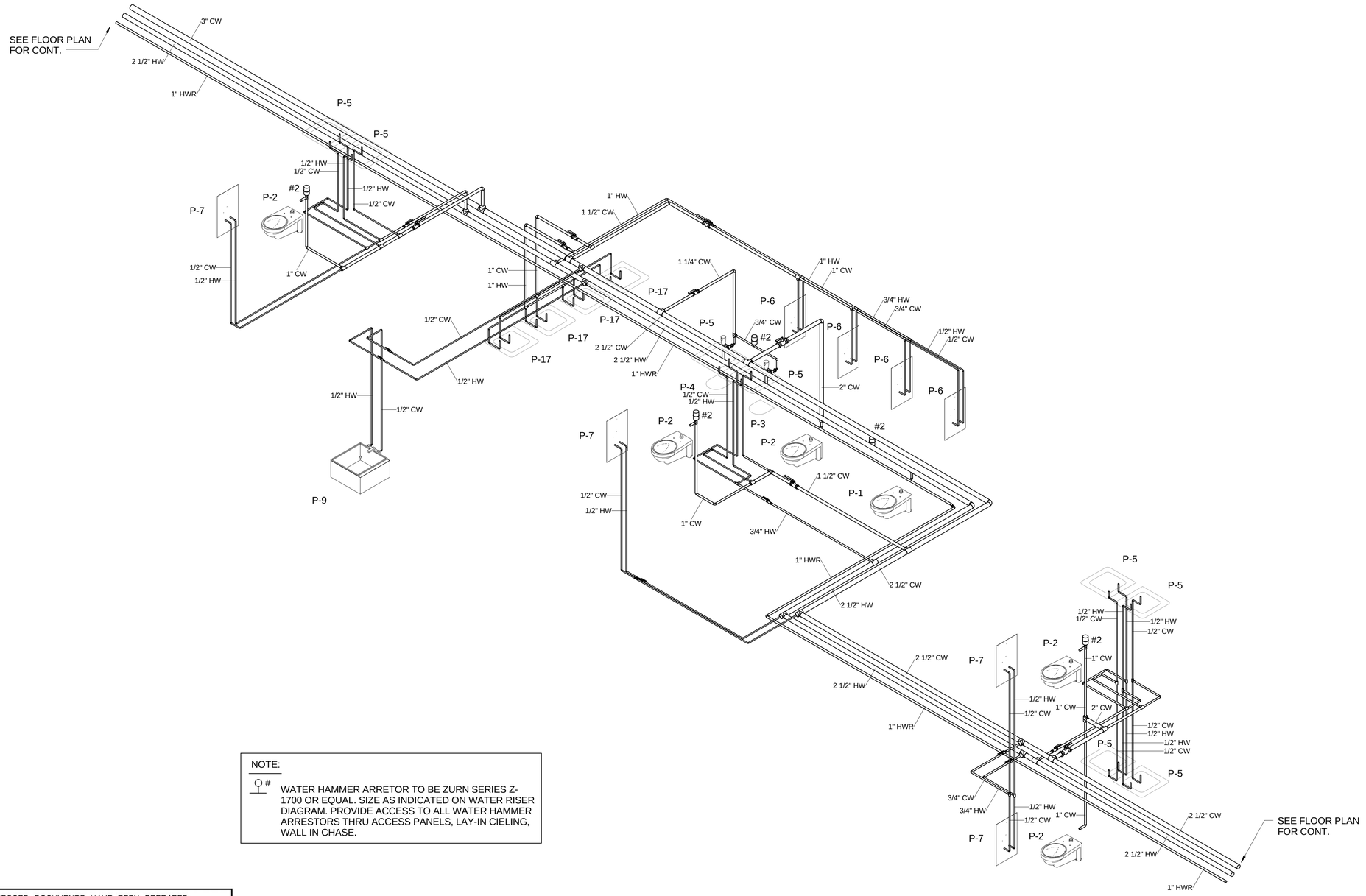
STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC # AA0003564

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
PLUMBING RISER DIAGRAM

PLATE REFERENCE NUMBER
P-407
SHEET 192

74278- P-407-



NOTE:

#

WATER HAMMER ARRETOR TO BE ZURN SERIES Z-1700 OR EQUAL. SIZE AS INDICATED ON WATER RISER DIAGRAM. PROVIDE ACCESS TO ALL WATER HAMMER ARRESTORS THRU ACCESS PANELS, LAY-IN CIELING, WALL IN CHASE.

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

1 / P-408 WATER RISER DIAGRAM 3

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.ictthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: ICT | DRAWN BY: ICT | CHECKED BY: ICT | SUBMITTED BY: ICT
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D-5049 T.O. 0007
FILE NAME: P-408-PLUMBING RISER DIAGRAM
CATEGORY CODE:
SIZE: 22" x 34" | PLOT SCALE:
PLOT DATE: 5/1/2015 3:50:34 PM

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

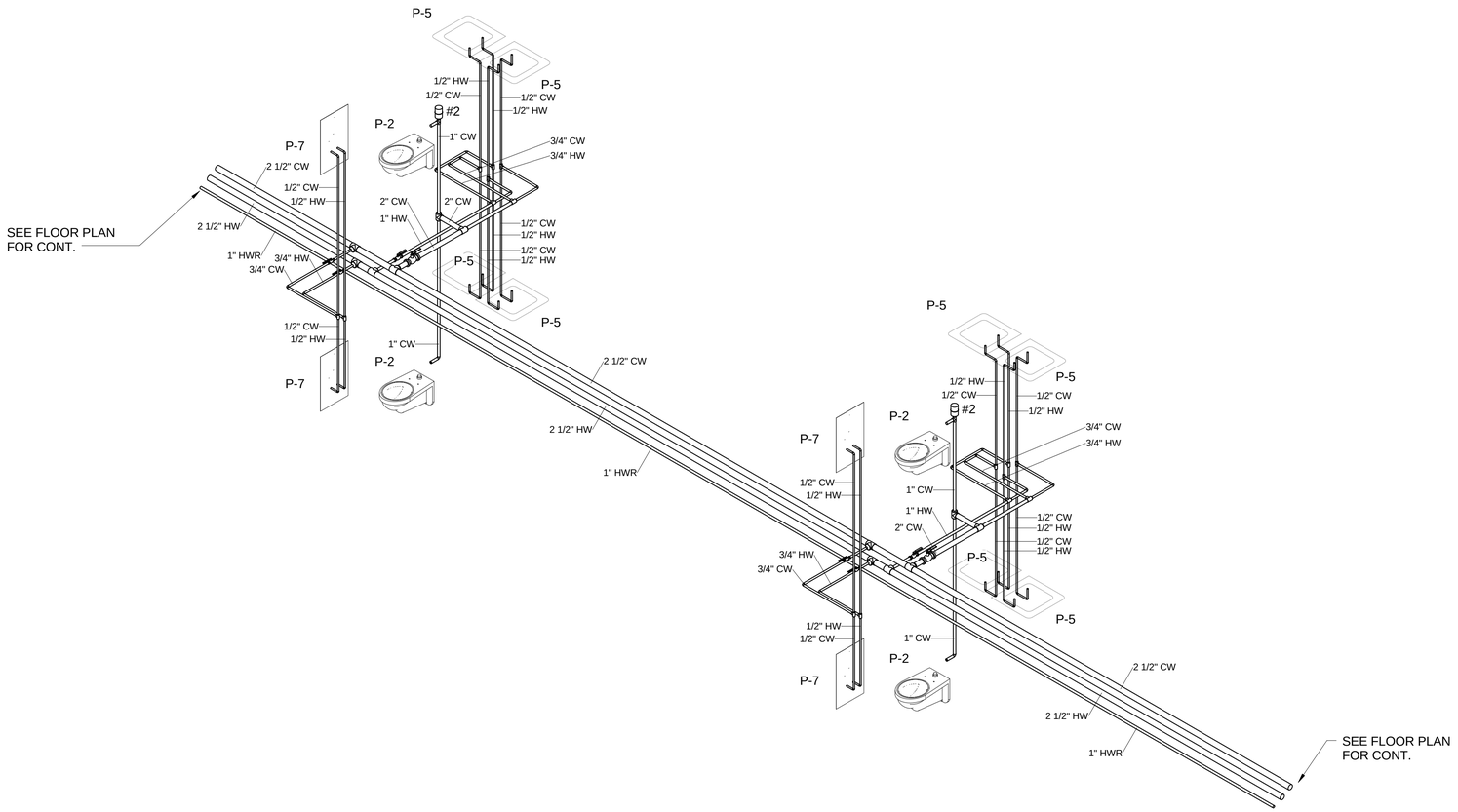
STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
PLUMBING RISER DIAGRAM

PLATE REFERENCE NUMBER
P-408
SHEET 193

74278- P-408-



NOTE:

#

WATER HAMMER ARRETOR TO BE ZURN SERIES Z-1700 OR EQUAL. SIZE AS INDICATED ON WATER RISER DIAGRAM. PROVIDE ACCESS TO ALL WATER HAMMER ARRESTORS THRU ACCESS PANELS, LAY-IN CIELING, WALL IN CHASE.

1 / P-409 WATER RISER DIAGRAM 4

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.ictthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: ICT
DRAWN BY: ICT
CHECKED BY: ICT
SUBMITTED BY: ICT
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D-0049 T.O. 0007
FILE NAME: P409-PLUMBING RISERS
CATEGORY CODE:
SIZE: 22" x 34"
PLOT SCALE:
PLOT DATE: 5/1/2015 3:50:35 PM

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

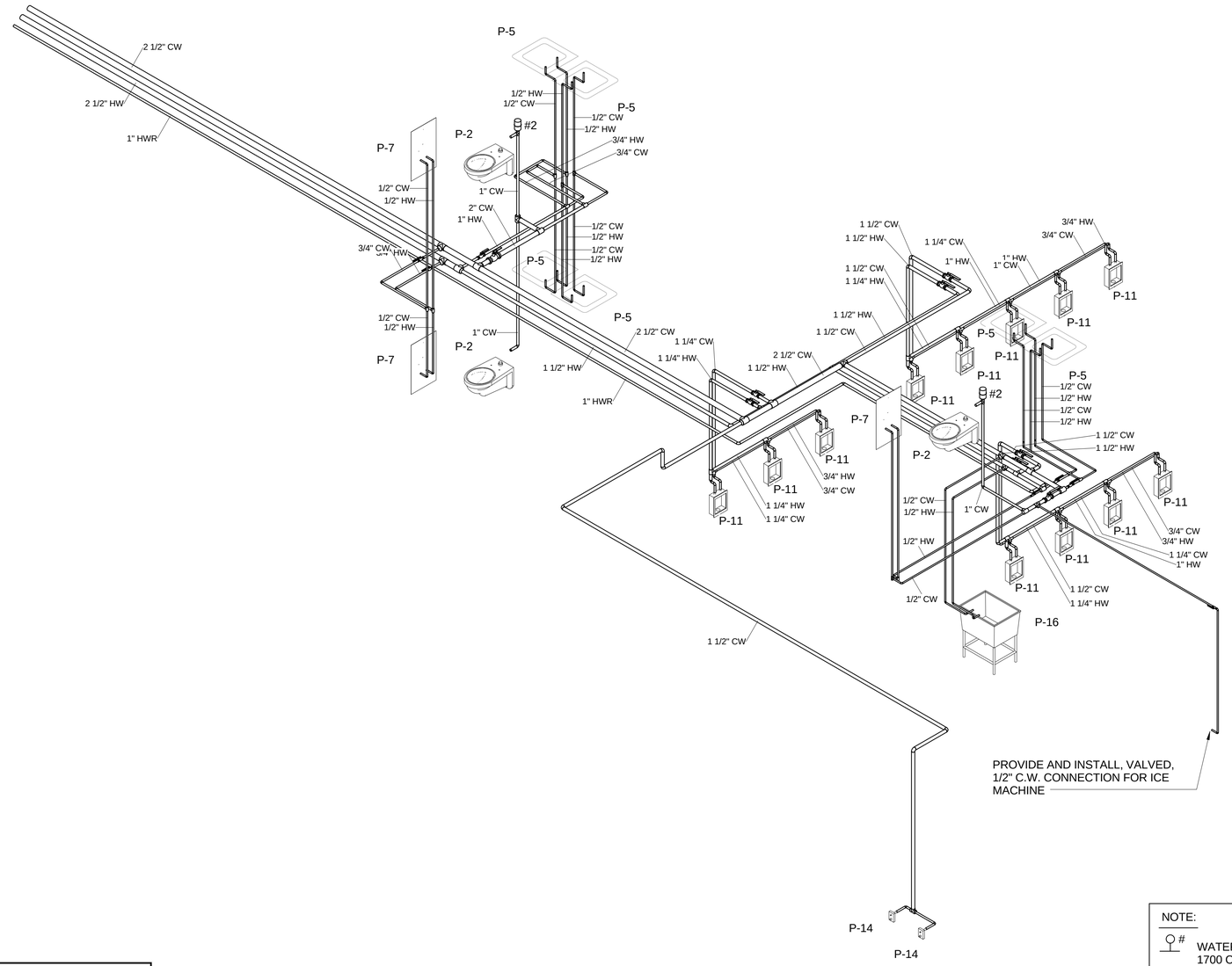
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
PLUMBING RISER DIAGRAM

PLATE REFERENCE NUMBER
P-409
SHEET 194

74278- P-409-



1 / P-410 WATER RISER DIAGRAM 5

NOTE:

#

WATER HAMMER ARRETOR TO BE ZURN SERIES Z-1700 OR EQUAL. SIZE AS INDICATED ON WATER RISER DIAGRAM. PROVIDE ACCESS TO ALL WATER HAMMER ARRESTORS THRU ACCESS PANELS, LAY-IN CIELING, WALL IN CHASE.

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.ictthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.
2	AMENDMENT 002 BASEMENT CHANGES PER RFP MOD BO007 - RFP 0006	11/14/14	

DESIGNED BY: ICT
DRAWN BY: ICT
SUBMITTED BY: ICT
CHECKED BY: ICT
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D-0049 T.O. 0007
CATEGORY CODE:
FILE NAME: P410-RISER
PLOT SCALE: 22" x 34"
PLOT DATE: 5/4/2015 11:29:24 AM

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
PLUMBING RISER DIAGRAM

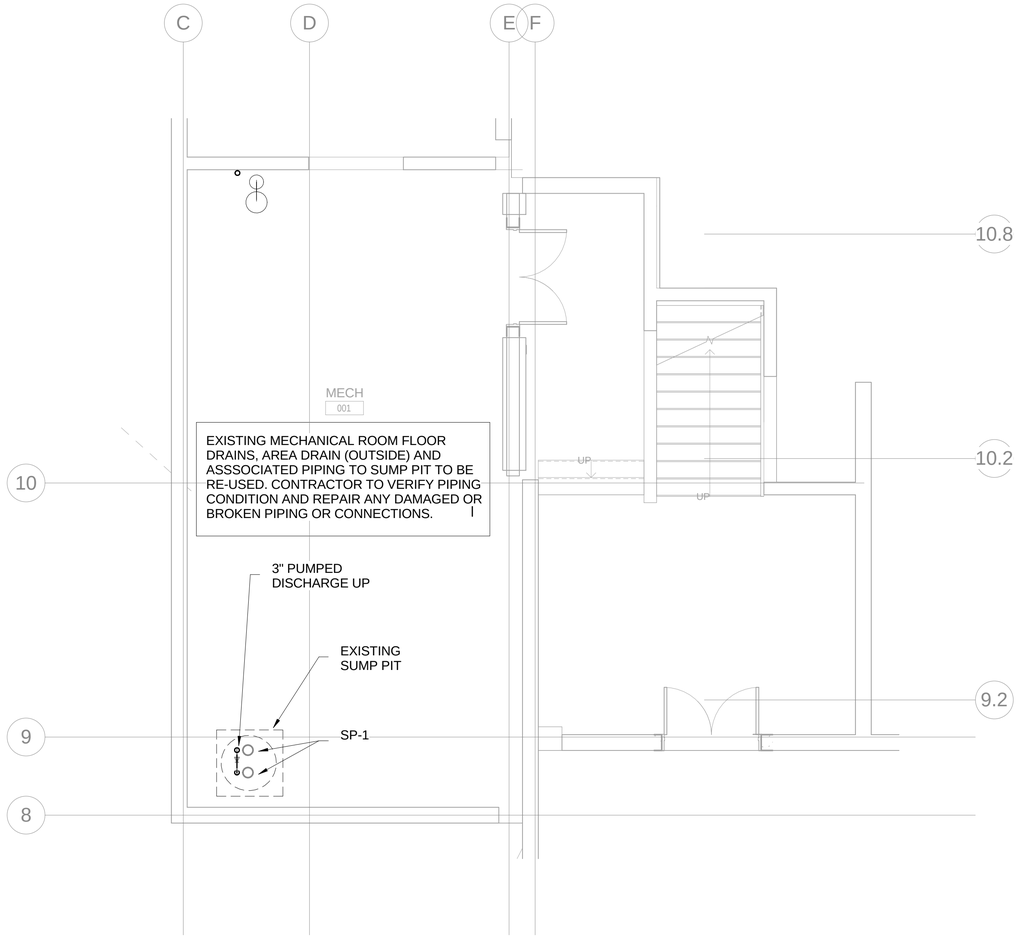
PLATE REFERENCE NUMBER
P-410
SHEET 195

74278- P-410-

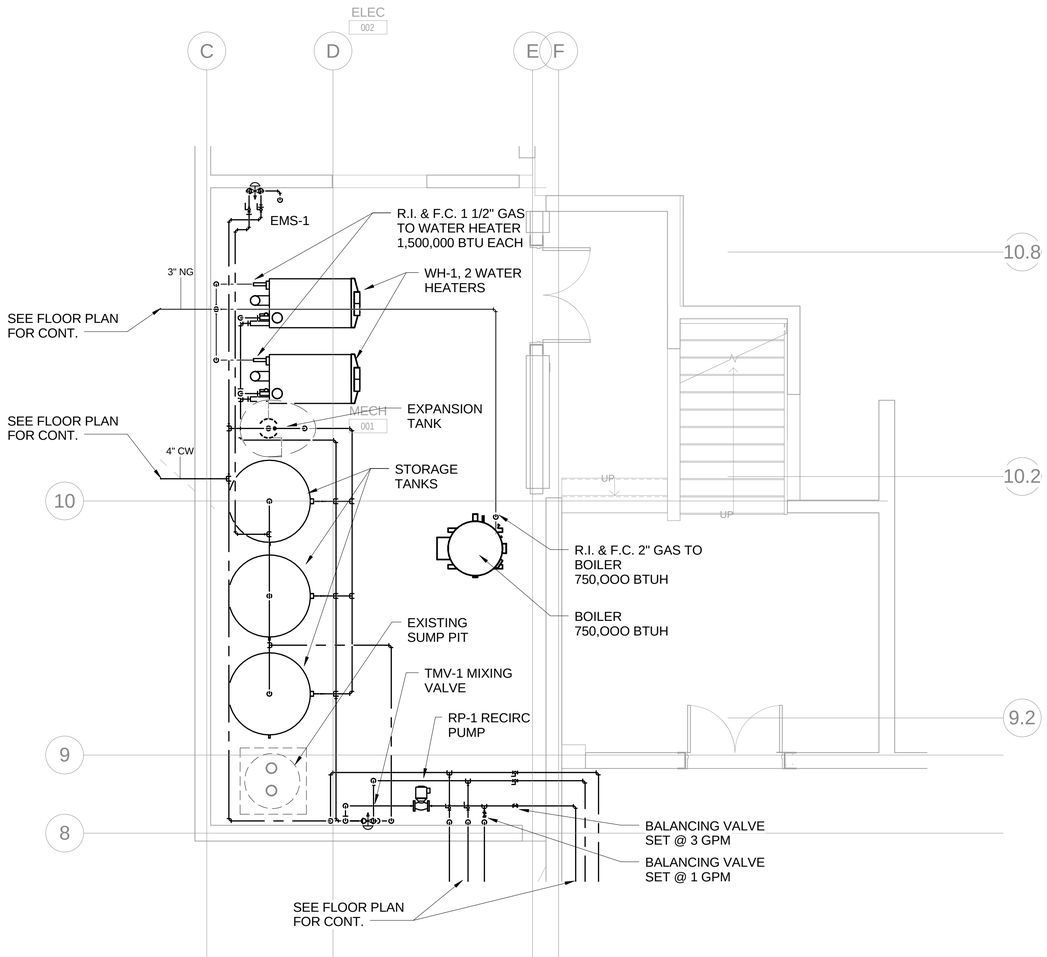
I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.



NORTH
1 P-501
UNDERGROUND - BASEMENT FLOOR PLAN
8' 4' 0' 8' 16'
SCALE: 1/4" = 1'-0"



NORTH
2 P-501
PLUMBING - BASEMENT FLOOR PLAN
8' 4' 0' 8' 16'
SCALE: 1/4" = 1'-0"

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
PLUMBING ENLARGED PLANS

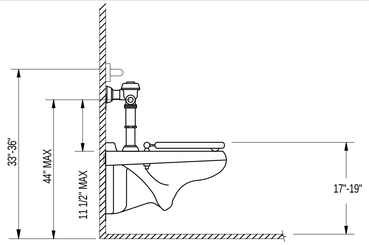
PLATE REFERENCE NUMBER
P-501
SHEET 196

DESIGNED BY: ICT	CHECKED BY: ICT	ISSUE DATE: JUNE 2013	
DRAWN BY: ICT		SOLICITATION NO.: W912HN-09-X-S107	
SUBMITTED BY: ICT		CONTRACT NO.: W912HN-10-D-0049 T.O. 0007	
FILE NAME: P-501.DWG		CATEGORY CODE:	
SIZE: 22" x 34"	PLOT SCALE: 1/4" = 1'-0"	PLOT DATE: 5/1/2015 3:50:40 PM	

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC.# AA0003564

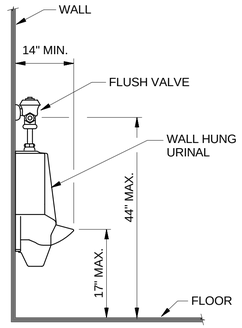
74278- P-501-



NOTE:
FLUSH VALVES SHALL BE HAND OPERATED OR AUTOMATIC (SEE SPECIFICATIONS). HANDLE OF FLUSH VALVE SHALL BE MOUNTED ON WIDE SIDE OF TOILET AREA.
OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 LBF MAX..

ACCESSIBLE WATER CLOSET DETAIL

NO SCALE

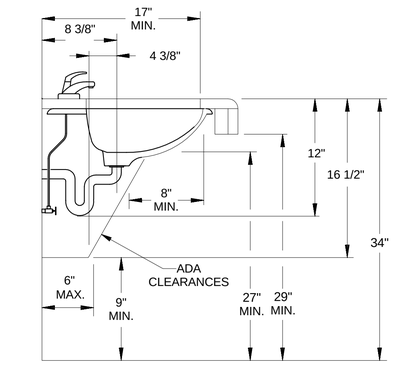


NOTE:
FLUSH VALVES SHALL BE HAND OPERATED OR AUTOMATIC (SEE SPECIFICATIONS).
OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 LBF MAX..

ACCESSIBLE URINAL DETAIL

NO SCALE

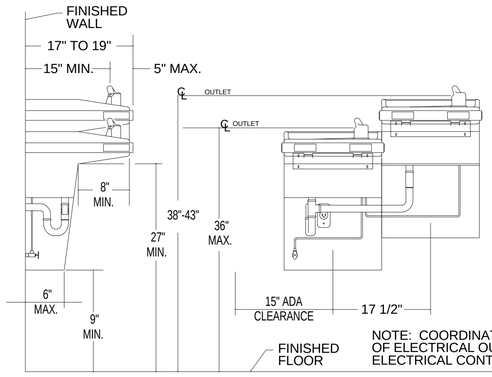
NOTE:
CONTRACTOR TO FIELD MODIFY P-TRAP AND OFFSET DRAIN TO EXACT SIZES AS SHOWN. INSULATE DRAIN AND SUPPLIES PER SPECIFICATIONS. FAUCET SHALL BE HAND OPERATED OR AUTOMATIC (SEE SPECIFICATIONS) AND SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE A FORCE GREATER THAN 5 LBF TO ACTIVATE.



ACCESSIBLE LAVATORY DETAIL

NO SCALE

NOTE: SPOUT SHALL PROVIDE A WATER FLOW AT LEAST 4" HIGH MIN. AND SHALL BE LOCATED 5" MAX. FROM THE FRONT OF THE UNIT. THE ANGLE OF THE WATER STREAM SHALL BE MEASURED HORIZONTALLY RELATIVE TO THE FRONT FACE OF THE UNIT. WHERE SPOUTS ARE LOCATED LESS THAN 3" OF THE FRONT OF THE UNIT, THE ANGLE OF THE WATER STREAM SHALL BE 30^ MAX. WHERE SPOUTS ARE LOCATED BETWEEN 3" AND 5" FROM THE FRONT OF THE UNIT, THE ANGLE OF THE WATER STREAM SHALL BE 150^ MAX. OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 LBF MAX..

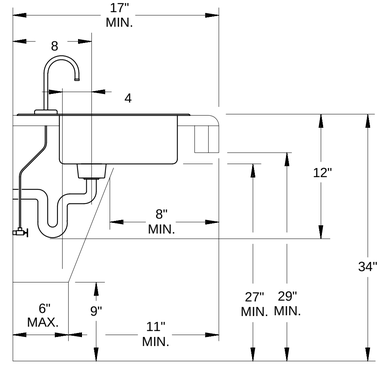


NOTE: COORDINATE LOCATION OF ELECTRICAL OUTLET WITH ELECTRICAL CONTRACTOR

ACCESSIBLE ELECTRIC WATER COOLER DETAIL

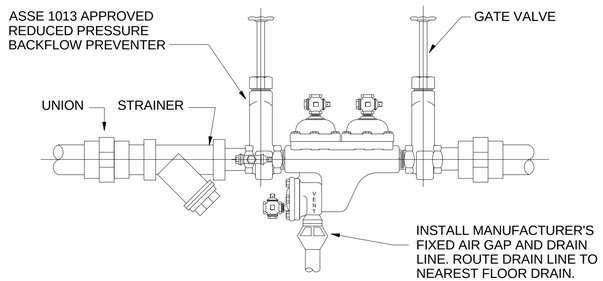
NO SCALE

NOTE:
CONTRACTOR TO FIELD MODIFY P-TRAP AND OFFSET DRAIN TO EXACT SIZES AS SHOWN. INSULATE DRAIN AND SUPPLIES PER SPECIFICATIONS. OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 LBF MAX..



ACCESSIBLE SINK DETAIL

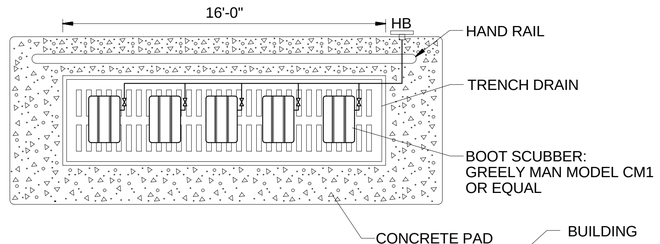
NO SCALE

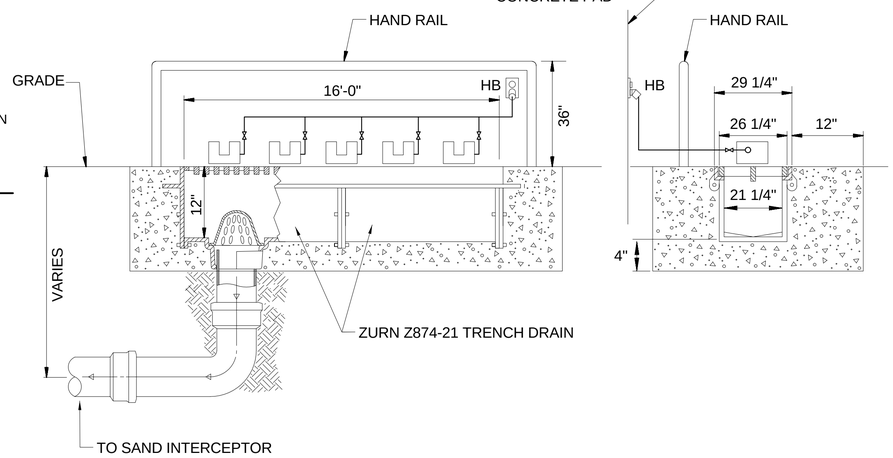


3/4" TO 2" REDUCED PRESSURE BACKFLOW PREVENTER DETAIL

NO SCALE

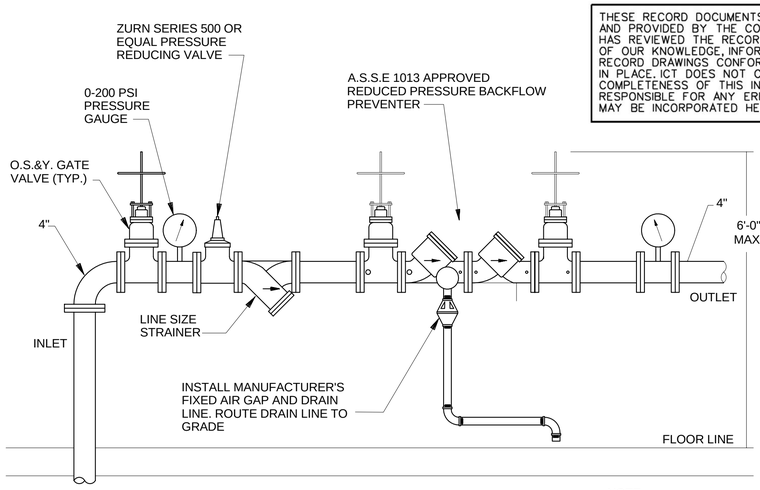
NOTE:
MODULAR TRENCH DRAIN WITH SYSTEM WITH STEEL FRAME, ZURN MODEL NO. Z-874-21 W/ DGC GRATE APPROVED EQUAL.





BOOT WASH DETAIL - MODULAR TRENCH DRAIN

NO SCALE



THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

NOTE:
INSTALL WITH WALL BRACKETS OR PIPE STAND. DO NOT SUPPORT BY PIPING.

(2 1/2" - 10")

REDUCED PRESSURE BACKFLOW PREVENTER WITH PRV DETAIL

NO SCALE

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.ictthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: ICT
DRAWN BY: ICT
SUBMITTED BY: ICT
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-S107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CHECKED BY: ICT
FILE NAME: 110318_P-601.dwg
SIZE: 22" x 34"
CATEGORY CODE:
PLOT SCALE: 1/8" = 1'-0"
PLOT DATE: 5/1/2015 3:56:42 PM

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

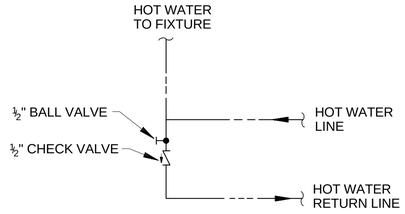
STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
PLUMBING DETAILS

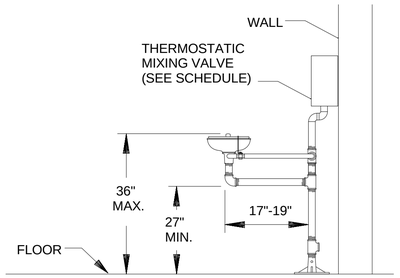
PLATE REFERENCE NUMBER
P-601
SHEET 197

74278- P-601-



TYPICAL HOT WATER RETURN CONNECTION DETAIL

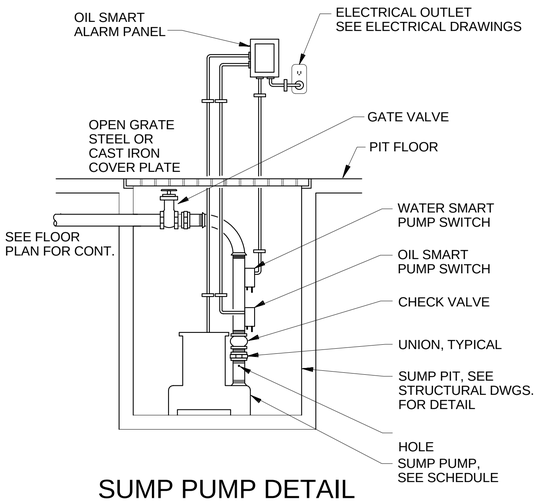
NO SCALE



NOTE: THE FORCE REQUIRED TO OPERATE VALVES SHALL BE NO MORE THAN 5 LBF.

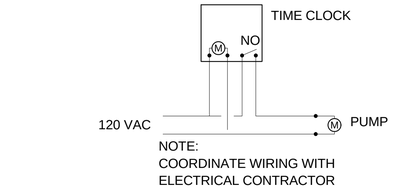
ACCESSIBLE EMERGENCY EYE WASH DETAIL

NO SCALE



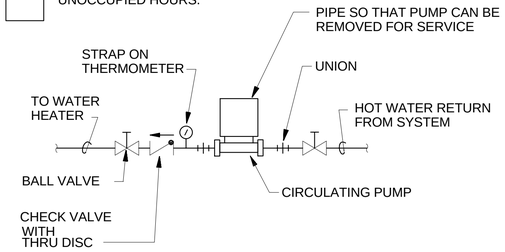
SUMP PUMP DETAIL

NO SCALE



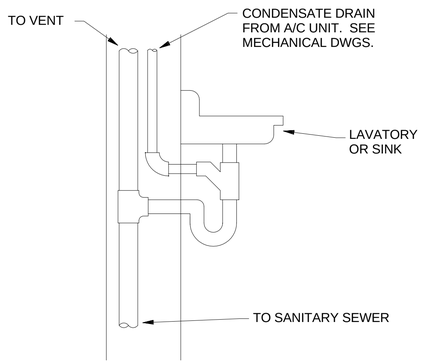
NOTE:
COORDINATE WIRING WITH
ELECTRICAL CONTRACTOR

GRASSLIN MODEL DIGI-42
7 DAY TIME CLOCK SET TO
SHUT OFF PUMP DURING
UNOCCUPIED HOURS.



IN-THE-LINE CIRCULATING PUMP DETAIL

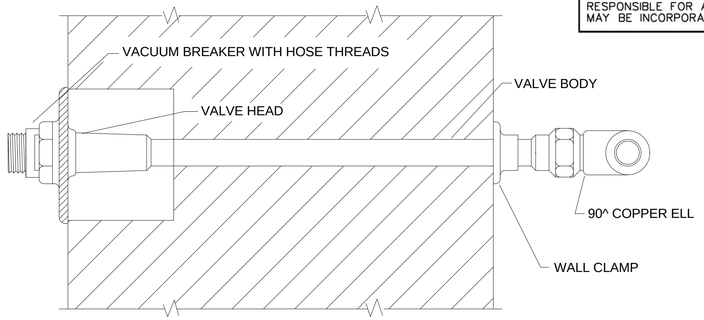
NO SCALE

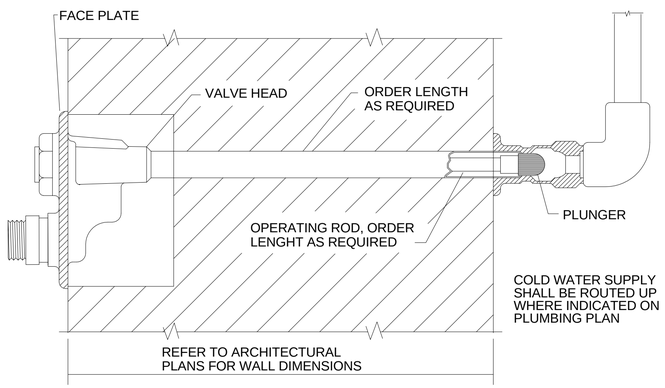


CONDENSATE DRAIN CONNECTION DETAIL

NO SCALE

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.



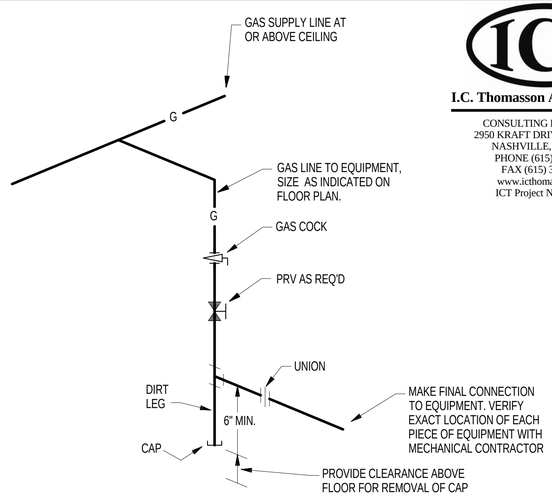


NOTE:
AUTOMATIC DRAINING, ANTI-SIPHON, NON-FREEZE WALL HYDRANT ZURN Z-1310 OR APPROVED EQUAL.

INSTALL A MINIMUM OF 3'-0" ABOVE FINISHED GRADE.

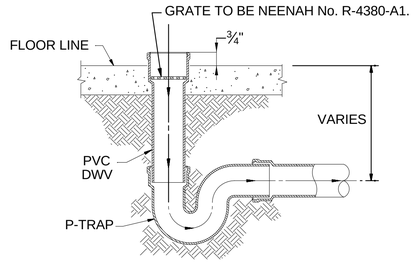
WALL HYDRANT DETAIL

NO SCALE



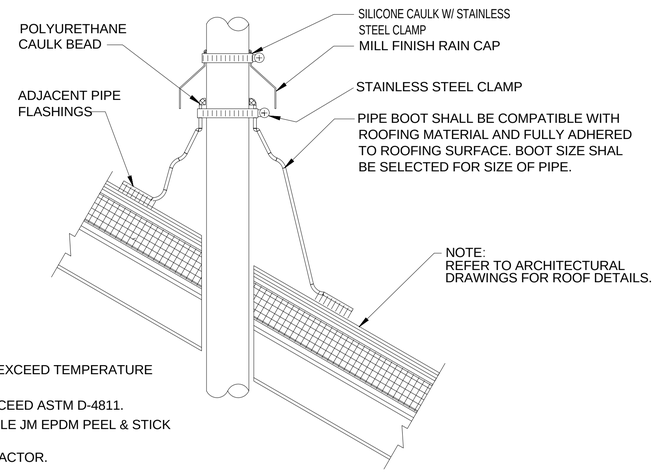
TYPICAL GAS CONNECTION DETAIL

NO SCALE



HUB DRAIN DETAIL

NO SCALE



NOTES:
1. AMBIENT VENT ONLY. DO NOT EXCEED TEMPERATURE RANGE OF BOOT MATERIAL.
2. ASSEMBLY SHALL MEET OR EXCEED ASTM D-4811.
3. BOOT SHALL BE JOHNS MANVILLE JM EPDM PEEL & STICK PIPE BOOT OR EQUAL.
4. FLASHING BY ROOFING CONTRACTOR.

VENT PIPE THRU ROOF DETAIL

NO SCALE

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

ISSUE DATE:	JUNE 2013
DESIGNED BY:	ICT
DRAWN BY:	ICT
CHECKED BY:	ICT
SUBMITTED BY:	ICT
FILE NAME:	P-602.dwg
SIZE:	22" x 34"
SOLICITATION NO.:	W912HN-09-X-5107
CONTRACT NO.:	W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:	
PLOT SCALE:	1/8" = 1'-0"
PLOT DATE:	5/1/2015 3:50:43 PM

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS
FL LIC #AA0003564

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
PLUMBING DETAILS

PLATE REFERENCE NUMBER
P-602
SHEET 198

74278- P-602-

PLUMBING FIXTURE SCHEDULE

MARK	ITEM	HW	CW	WASTE	SUPPLY STOP	DESCRIPTION
P-1	WATER CLOSET (H/C)	-	1"	4"	-	WALL MOUNTED, SENSOR FLUSH VALVE TOILET, WHITE VITREOUS CHINA, ADA ELONGATED BOWL, 1 1/2" TOP SPUD, SIPHON JET, 1.28 GPF, ELONGATED OPEN FRONT SEAT, NO LID, STAINLESS STEEL CHECK HINGES; ZURN Z 5615.272.00.00.00, ZURN ZEM6000AV-HET-IS FLUSH VALVE (HARDWIRED). MOUNT 17" RIM TO FINISHED FLOOR. PROVIDE POWER INVERTER. PROVIDE CARRIER.
P-2	WATER CLOSET	-	1"	4"	-	WALL MOUNTED, SENSOR FLUSH VALVE TOILET, WHITE VITREOUS CHINA, ADA ELONGATED BOWL, 1 1/2" TOP SPUD, SIPHON JET, 1.28 GPF, ELONGATED OPEN FRONT SEAT, NO LID, STAINLESS STEEL CHECK HINGES; ZURN Z 5615.272.00.00.00 ZURN ZEM6000AV-HET-IS (HARDWIRED) FLUSH VALVE. PROVIDE POWER INVERTER. PROVIDE CARRIER.
P-3	URINAL (HC)	-	3/4"	2"	-	WALL HUNG, SENSOR FLUSH VALVE TOILET, WHITE VITREOUS CHINA, INTEGRAL FLUSHING RIM AND TRAP, 0.125 GPF; ZURN Z 5798.206.00 (HARDWIRED) PROVIDE CARRIER/HANGER. PROVIDE POWER INVERTER. MOUNT 17" RIM TO FINISHED FLOOR.
P-4	URINAL	-	3/4"	2"	-	WALL HUNG, SENSOR FLUSH VALVE TOILET, WHITE VITREOUS CHINA, INTEGRAL FLUSHING RIM AND TRAP, 0.125 GPF; ZURN Z 5798.206.00 (HARDWIRED) PROVIDE CARRIER/HANGER. PROVIDE POWER INVERTER.
P-5	LAVATORY	1/2"	1/2"	1-1/2"	HW & CW	INTERGRAL BOWL TO COUNTER TOP. FAUCET: CHROME PLATED BRASS, SINGLE LEVER, 0.5 GPM, ZURN Z82200-CP4 . GRID DRAIN, INSULATE PIPING PER ADA WITH TRU-BRO "LAV-GUARD".
P-6	SHOWER	1/2"	1/2"	2"	-	SHOWER (3'x3'): TILE. FAUCET - CHROME PLATED, BALANCED PRESSURE, SINGLE HANDLE, BRASS VALVE, 1.75 GPM MAX., ZURN Z7302-SS-MT-S8. DRAIN; ZURN Z 415.
P-7	SHOWER	1/2"	1/2"	2"	-	SHOWER (3'x5'): TILE. FAUCET - CHROME PLATED, BALANCED PRESSURE, SINGLE HANDLE, BRASS VALVE, 1.75 GPM MAX., ZURN Z7302-SS-MT-S8. DRAIN; ZURN Z 415.
P-8	FLOOR DRAIN (TLT)	-	-	LINE SIZE	-	CAST IRON BODY, 6" SQUARE POLISHED BRONZE STRAINER, VANDAL PROOF SCREWS, TRAP PRIMER CONNECTION, ZURN Z 415.
P-9	JANITORS SINK (SQUARE)	1/2"	1/2"	3"	-	MOLDED STONE, 1-PIECE, 24X24X12", 1-1/4" CURB, STAINLESS STEEL CAPS, INTEGRAL DRAIN, STAINLESS STEEL GRID STRAINER; STERN-WILLIAMS SB-902. FAUCET, SERVICE TYPE, VACUUM BREAKER, WALL BRACE, 8" SPOUT, BUCKET HOOK, 3/4" HOSE THREAD; STERN-WILLIAMS T-10-VB. MOP HANGER, STAINLESS STEEL 24X3"; STERN-WILLIAMS T-40. PROVIDE A ZURN ZW 3870T.
P-10	DRINKING FOUNTAIN (HI-LOW)	-	1/2"	1-1/2"	CW	FRONT PUSHBARS, SURFACE MOUNT, STAINLESS STEEL TOP, ARI 1010 CERTIFIED, 8 GPH, 5 YR. REFRIGERATION SYSTEM WARRANTY, LEAD FREE, 120 VAC; ELKAY MODEL LZSTL8 WSLK W/ BOTTLE FILLER, PROVIDE CARRIER/HANGER.
P-11	WASHING MACHINE CONNECTION BOX	1/2"	1/2"	2"	HW & CW	EQUIPMENT (WASHING MACHINE) IS OWNER PROVIDED. PLUMBING CONTRACTOR TO PROVIDE ROUGH--IN PLUMBING INCLUDING BALL VALVES WITH HOSE THREAD IN POLYMER VALVE BOX RECESSED IN WALL WITH DRAIN; SIOUX CHIEF 696-2313-MF, OXBOX.
P-12	SINK (SINGLE COMP.)	1/2"	1/2"	1-1/2"	HW & CW	SINGLE COMPARTMENT, COUNTER SET, 25"x21 1/4", 18 GAUGE STAINLESS STEEL, SELF RIMMING, ELKAY MODEL LRAD 2521. FAUCET - WRIST BLADES, DECK MOUNT, SWING SPOUT; ZURN Z831B4 GOOSENECK FAUCET. DRAIN, 3 1/2" STD STRAINER, STAINLESS STEEL BASKET. INSULATE PIPING PER ADA WITH TRU-BRO "LAV-GUARD".
P-13	INTERIOR HOSE BIBB	-	3/4"	-	-	AUTOMATIC DRAINING, 3/4" FPT, BRASS CONSTRUCTION, LOOSE KEY HANDLE, CONFORMING TO A.S.S.E. 1019, VACUUM BREAKER-BACKFLOW PREVENTER CONFORMING TO A.S.S.E. 1011, 3/4" HOSE THREAD NOZZEL; ZURN Z-1341-BFP.
P-14	EXTERIOR WALL HYDRANT	-	3/4"	-	-	AUTOMATIC DRAINING, 3/4" FPT, BRASS CONSTRUCTION, LOOSE KEY HANDLE, CONFORMING TO A.S.S.E. 1019, VACUUM BREAKER-BACKFLOW PREVENTER CONFORMING TO A.S.S.E. 1052, 3/4" HOSE THREAD NOZZEL; WOODFORD MODEL 67C
P-15	FLOOR DRAIN (MECH)	-	-	LINE SIZE	-	CAST IRON BODY, 12" SQUARE POLISHED BRONZE STRAINER, SEEDIMENT BUCKET, VANDAL PROOF SCREWS, TRAP PRIMER CONNECTION; ZURN Z541.
P-16	UTILITY SINK	1/2"	1/2"	2"	HW & CW	ONE COMPARTMENT, 18 GA. TYPE 304 STAINLESS STEEL, 18" x 24", FREE STANDING; ADVANCE TABCO MODEL 9-61-18. FAUCET; CHROME PLATED BRASS, 1 GPM, ZURN Z 843M1. 1 1/2" DRAIN , SS BASKET.
P-17	LAVATORY	1/2"	1/2"	1-1/2"	HW & CW	UNDERMOUNT, WHITE VITREOUS CHINA, FRONT OVERFLOW; ZURN Z5220. FAUCET: CHROME PLATED BRASS, SINGLE LEVER, 0.5 GPM, ZURN Z82200-CP4 . GRID DRAIN, INSULATE PIPING PER ADA WITH TRU-BRO "LAV-GUARD".

THERMOSTATIC MIXING VALVE SCHEDULE

TAG	MFG.	MODEL. NO	FLOW	MIN. FLOW	LOCATION
TMV-1	BRADLEY	NRS-8	27.2	.5 GPM	AT WATER HEATER

REDUCED PRESSURE BACKFLOW PREVENTER SCHEDULE

TAG	MFG.	MODEL	PIPE SIZE	PRESSURE LOSS (PSI)	MAXIMUM PRESSURE	MAX. WORKING WATER TEMPERATURES	LOCATION
*RPBP-1	WILKINS	375	3"	14 psi @ 210 gpm	175 psi	140° F	SEE DRAWINGS
RPBP-2	WILKINS	375XL	2"	12 psi @ 160 gpm	175 psi	140° F	SEE DRAWINGS

*NOTE: RPBP-1 IS FOR REFERENCE ONLY. BACKFLOW PREVENTER IS LOCATED IN "HOT BOX" ON-SITE. SEE CIVIL DRAWING FOR LOCATION.

SUMP PUMP SCHEDULE

TAG	DESIGN & LAYOUT		CAPACITY		HORSE POWER	ELECTRICAL CHARACTERISTICS	RPM	FULL LOAD AMPS	LOCATION
	MFG.	MODEL NO.	GPM	HEAD FT					
SP-1	GOULDS	(2) 3885	25	25	1/2	115/1/60	3500	14.5	SUMP PIT - MECHANICAL ROOM - BASEMENT

NOTES:
1. PROVIDE HIGH LEVEL ALARM.
2. DISCHARGE SIZE SHALL BE 2" . UNIT SHALL PASS $\frac{3}{4}$" SPHERICAL CONTAMINANTS.
3. FIELD VERIFY POWER CORD LENGTH REQUIRED.
4. UNIT SHALL INCLUDE BUILT-IN THERMAL OVERLAD PROTECTION WITH AUTOMATIC RESET.
5. PROVIDE GRATED TOP FOR SUMP BASIN.
6. ALL SUMP BASINS ARE TO HAVE DUPLEX PUMPS.

HOT WATER CIRCULATING PUMP SCHEDULE

TAG	MFG.	MODEL. NO	GPM	HEAD FT.	HORSE POWER	ELECTRICAL CHARACTERISTICS	RPM	LOCATION
RP-1	GRUNDFOS	UP26-99F	5	18	1/6	115/1/60	2450	@ WATER HEATER

NOTE: PROVIDE 1/2" FREEDOM FLANGE SHUT-OFF, MODEL NO. 254-2

GAS WATER HEATER SCHEDULE

TAG	MFG.	MODEL NO.	STORAGE TANK	STORAGE TEMP.	RECOVERY @ 100° F	ELECTRICAL CONNECTION	BTUH INPUT	THERMAL EFFIECNY	REMARKS
*WH-1	LOCHNIVAR	AWN1500-PM	**	140° F	1745	(2) 120/1/60	1,500,000	98%	AMTROL ST-60V
*WH-2	LOCHNIVAR	AWN1500-PM	**	140° F	1745	(2) 120/1/60	1,500,000	98%	AMTROL ST-60V

* BASED ON 90 MINUTE SHOWER USAGE

**STORAGE TANK SHALL BE LOCHINVAR RGA 0752. GLASS LINED 750 GALLON VERTICAL ROUND STORAGE TANK. TANK SHALL BE JACKETED AND SHALL BE ASME CONSTRUCTION. PROVIDE CONDENSATE NEUTRALIZATION KIT

EMERGENCY EYEWASH SCHEDULE

TAG	MFG.	MODEL. NO	MIXING VALVE	TANKLESS WATER HEATER	LOCATION
EMS-1	BRADLEY	S19-224	S19-2000	NONE	MECHANICAL ROOM

PROVIDE S19-320 FLOW SWITCH ALARM SYSTEM

BOOSTER PUMP

TAG	MFG.	MODEL. NO	HP	GPM	ELECTRICAL	FULL LOAD AMPS	SUCTION PRESSURE	BOOST	LOCATION
BP-1	AQUA FORCE	V2VEC6G20B2	2 @ 5 HP EACH	145	208/3/60	17.0	30 PSI	70 PSI	MECHANICAL RM

COMPLETE DUPLEX PACKAGED SYSTEM, VFD, PROVIDE ALARM CONNECTION TO BAS. PROVIDE AMTROL ST-60V EXPANSION TANK.

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK | DESCRIPTION | DATE | APPR.

DESIGNED BY: ICT
DRAWN BY: ICT
CHECKED BY: ICT
SUBMITTED BY: ICT
FILE NAME: P-701.DGN
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-S107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
SIZE: 22" x 34"
PLOT SCALE: 1/8" = 1'-0"
PLOT DATE: 5/1/2015 3:35:03 PM

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS
FL LIC #AA0003564

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
PLUMBING SCHEDULES

PLATE REFERENCE NUMBER
P-701
SHEET 199

74278- P-701-

MECHANICAL GENERAL NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETE OPERATIONAL COOLING AND HEATING SYSTEM IN ACCORDANCE WITH THE DESIGN DRAWINGS.

2. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE INTERNATIONAL MECHANICAL CODE, NFPA REQUIREMENTS, AND ALL LOCAL CODES.

3. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS. DRAWINGS SHALL NOT BE SCALED.

4. CONTRACTOR SHALL FIELD VERIFY BY MEASUREMENT THE EXACT LOCATION OF EQUIPMENT, DUCTWORK, PIPING, STRUCTURE, AND OTHER CONDITIONS WHICH WILL AFFECT INSTALLATION. CONTRACTOR SHALL LOCATE EQUIPMENT AND ROUTE DUCTWORK AND PIPING TO AVOID CONFLICTS AND INTERFERENCES WITH EXISTING CONDITIONS.

5. COORDINATE DUCT, PIPING, AND EQUIPMENT LOCATIONS WITH ELECTRICAL ROOMS, ELEVATOR EQUIPMENT ROOMS, AND ALL ELECTRICAL PANEL LOCATIONS. DO NOT PASS ANY MECHANICAL OR PLUMBING PIPING OR CONDENSATE PRODUCING EQUIPMENT DIRECTLY OVER ELECTRICAL PANELS, ELECTRICAL EQUIPMENT, ELEVATOR EQUIPMENT, CONTROLS, OR TELECOMMUNICATIONS EQUIPMENT. SEE ELECTRICAL AND TELECOMMUNICATION DRAWINGS FOR EXACT EQUIPMENT LOCATIONS.

6. CEILING DIFFUSER AND REGISTER LOCATIONS ARE APPROXIMATE ONLY. SEE ARCHITECTURAL FOR EXACT LOCATIONS OF ALL AIR DISTRIBUTION DEVICES (WALL AND CEILING).

7. ALL CUTTING AND PATCHING SHALL BE COORDINATED. ALL PATCHING SHALL RESTORE EACH DAMAGED SURFACE TO ITS ORIGINAL FINISH.

8. ALL EXPOSED DUCTWORK, PIPING, AND EQUIPMENT IN FINISHED SPACES TO BE INSTALLED AS HIGH AS POSSIBLE ABOVE FINISHED FLOOR AND SHALL BE PREPARED WITH PAINT GRIP SUITABLE FOR PAINTING.

9. ALL AIR DISTRIBUTION SYSTEM(S) SHALL BE TESTED AND BALANCED IN ACCORDANCE WITH A.A.B.C. OR N.E.B.B. REQUIREMENTS. A CERTIFIED AIR BALANCE REPORT SHALL BE PREPARED PRIOR TO PROJECT CLOSEOUT.

10. ALL LOW PRESSURE DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH THE LATEST SMACNA HVAC DUCT CONSTRUCTION MANUAL FOR 2" W.G. STATIC PRESSURE. DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL.

11. ALL DUCT DIMENSIONS SHOWN ON DRAWINGS ARE INSIDE CLEAR. ALLOWANCE MUST BE MADE IN SHEET METAL SIZE WHERE DUCT LINER IS SPECIFIED.

12. AT LOCATIONS WHERE MERV-13 FILTERS ARE REQUIRED, IN ACCORDANCE WITH LEED 3.0, MINIMUM MERV-8 FILTERS SHALL BE PROVIDED FOR AIR HANDLING UNITS THAT ARE USED DURING CONSTRUCTION. THE MERV-8 FILTERS SHALL BE REPLACED WITH MERV-13 PRIOR TO OCCUPANCY.

13. ALL TRANSFER AIR DUCT (TAD) SHALL BE INTERNALLY INSULATED WITH 1" THICK, 3 LB. DENSITY, EQUAL TO CERTAINEED TOUGHGUARD. CONCEALED LOW PRESSURE SUPPLY DUCT SHALL HAVE EXTERIOR WRAP INSULATION AS SPECIFIED.

14. NO FLEXIBLE DUCT SHALL BE EXPOSED. NO DUCT WRAP INSULATION SHALL BE EXPOSED. DUCT EXPOSED IN MECHANICAL ROOMS SHALL BE EXTERNALLY INSULATED WITH RIGID INSULATION AS SPECIFIED.

15. DUCT RUNOUTS TO REGISTERS TO BE AS SCHEDULED UNLESS OTHERWISE INDICATED ON PLANS. CONTRACTOR TO PROVIDE A TRANSITION AT NECK OF EACH AIR DISTRIBUTION DEVICE AS REQUIRED.

16. FIRE DAMPERS TO BE TYPE "B" OR "C" DYNAMIC UNLESS OTHERWISE NOTED. INSTALLATION OUT OF AIRSTREAM AND IN STRICT ACCORDANCE WITH MANUFACTURER'S U.L. LISTED INSTALLATION INSTRUCTIONS AND SMACNA FIRE DAMPER GUIDE.

17. PROVIDE 4" HIGH CONCRETE PAD FOR ALL FLOOR-MOUNTED EQUIPMENT.

18. WHERE BRANCH TAPS OCCUR, PROVIDE INDIVIDUAL SPIN-IN FITTINGS WITH MANUAL-VOLUME DAMPERS FOR BALANCING. DO NOT USE TYPE WITH AIR SCOOP/EXTRACTOR. ADDITIONALLY, PROVIDE OPPOSED-BLADE VOLUME DAMPERS AT EACH AIR DISTRIBUTION DEVICE.

19. COORDINATE LOCATION AND PROVIDE DUCT ACCESS DOORS FOR ACCESS TO ALL FIRE DAMPERS, VALVES AND OTHER ENCLOSED ITEMS. DUCT ACCESS DOORS MAY BE OMITTED WHERE TYPE "A" FIRE DAMPERS ARE ACCESSIBLE THROUGH SIDEWALL REGISTER FACE. INSURE DUCT ACCESS DOORS AND DAMPERS ARE ACCESSIBLE THROUGH CEILINGS AND WALLS. LOCATE DUCT ACCESS DOORS ABOVE SPACES WITH LAY-IN CEILINGS OR EXPOSED CEILINGS WHERE POSSIBLE. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING TYPES.

20. PROVIDE CANVAS, FLAME RETARDANT FLEXIBLE DUCT CONNECTORS AT ALL CONNECTIONS OF FANS TO DUCTWORK.

21. PROVIDE A MINIMUM 15'-0" SEPARATION BETWEEN ANY FRESH AIR INTAKE AND ANY MECHANICAL EXHAUST, PLUMBING VENT, OR OTHER VENT OUTLETS.

22. COORDINATE INSTALLATION OF DUCT-MOUNTED SMOKE DETECTORS WITH FIRE ALARM SYSTEM PROVIDER.

23. DUCT-MOUNTED SMOKE DETECTORS ARE PROVIDED BY DIV. 26, INSTALLED BY DIV. 23.

24. DUCTWORK AND PIPE UNDER ROOF DECK SHALL BE SUPPORTED FROM STEEL BEAMS OR FROM SUPPLEMENTARY FRAMING SUPPORTED BY STEEL BEAMS.

25. DUCTWORK CAN BE HUNG FROM FLOOR DECK WITH CONCRETE FILL. SUPPORT DUCTWORK FROM STEEL BEAMS WHERE PRACTICAL.

26. PIPE 4" AND SMALLER CAN BE HUNG FROM FLOOR DECK WITH CONCRETE FILL. SUPPORT PIPE FROM STEEL BEAMS WHERE PRACTICAL. PIPE LARGER THAN 4" SHALL BE SUPPORTED FROM STEEL BEAMS OR FROM SUPPLEMENTARY FRAMING SUPPORTED BY STEEL BEAMS.

27. REFER TO THE IBC AND NFPA FOR CAULKING REQUIREMENTS AROUND FIRE AND FIRE/SMOKE DAMPERS.

SUPPLY DIFFUSER SCHEDULE

SYMBOL	ADAPTOR/ NECK SIZE	FACE SIZE	MAX CFM	MAX TP	MAX NC	THROW	DUCT RUNOUT SIZE *
SA	6" Φ	24"x24"	100	0.022	20	4-WAY	8"X5"/6" Φ
SB	8" Φ	24"x24"	200	0.042	20	4-WAY	10"X7"/8" Φ
SC	10" Φ	24"x24"	350	0.088	20	4-WAY	12"X8"/10" Φ
SD	12" Φ	24"x24"	500	0.127	20	4-WAY	14"X9"/12" Φ
SE	14" Φ	24"x24"	700	0.173	23	4-WAY	16"X10"/14" Φ
SF	15" Φ	24"x24"	950	0.259	28	4-WAY	16"X12"/16" Φ
SG	4" Φ	12"x12"	75	0.173	23	4-WAY	4"X4"/4" Φ
SH	8" Φ	12"x12"	250	0.259	28	4-WAY	6"X6"/8" Φ
SI	8"x8"	10"x10"	150	0.04	28	2-WAY	8"X8"/10" Φ
SJ	12"x8"	14"x10"	250	0.04	28	2-WAY	12"X8"/12" Φ

PERFORMANCE BASIS:

1. SA THRU SF ARE BASED ON PRICE MODEL SPD STEEL DIFFUSERS.
2. SG THRU SH ARE BASED ON PRICE MODEL APDN DIFFUSERS.
3. SI & SJ ARE BASED ON PRICE MODEL 620DAL DIFFUSERS.

ALL DIFFUSERS SHALL HAVE OPPOSED BLADE DAMPERS (OBD)
* RUNOUTS ARE DUCTS SERVING ONLY ONE SUPPLY DIFFUSER.

CEILING GRILLES & REGISTERS

SYMBOL	NECK	FACE	MAX CFM	MAX SP	MAX NC	DUCT RUNOUT SIZE *
RA/EA	6" SQ	24"x24"	100	.06	20	8"x5"/6" Φ
RB/EB	8" SQ	24"x24"	200	.06	20	10"x7"/8" Φ
RC/EC	10" SQ	24"x24"	350	.06	20	12"x8"/10" Φ
RD/ED	12" SQ	24"x24"	500	.06	20	14"x9"/12" Φ
RE/EE	14" SQ	24"x24"	700	.06	20	16"x10"/14" Φ
RF/EF	16" SQ	24"x24"	1000	.06	20	20"x10"/16" Φ
RG/EG	18" SQ	24"x24"	1250	.06	20	24"x10"/18" Φ
RH/EH	22" SQ	24"x24"	1750	.06	20	24"x12"/18" Φ
RI/EI	6" SQ	12"x12"	100	.06	20	4"x4"/6" Φ
RJ	10"x10"	12"x12"	200	.06	27	10"x10"/12" Φ
RK	36"x16"	38"x18"	1500	.06	27	36"x16"
RL	14"x12"	16"x14"	500	.06	27	14"x12

PERFORMANCE BASIS:

1. RA/EA THRU RH/EH SHALL BE PRICE MODEL 80 OR APPROVED EQUAL WITH ½"x½"x½" EGG-CRATE CORE.
2. RJ THRU RL SHALL BE PRICE MODEL 635DAL OR APPROVED EQUAL WITH 45° DEFLECTION ¾" SPACING
3. TRANSFER AIR GRILLE (TAG) SHALL BE PRICE 70DCK OR APPROVED EQUAL FOR SIDEWALL OR PRICE 80 FOR CEILING APPLICATIONS. SIZE AS SHOWN ON PLANS.

* RUNOUTS ARE DUCTS SERVING ONLY ONE GRILLE OR REGISTER.

ROSEMOUNT WATER METER

HYDRONIC CHILLED WATER	8800C SERIES SCHEDULE 40
DOMESTIC WATER	8800C SERIES SCHEDULE 40

NOTES:

1. OPERATION RANGE 3-1250 GPM, MAX. CONTINUOUS OPERATION 1000 GPM, PRESSURE LOSS 8.7 PSI @ 1000 GPM, MAX PRESSURE 600 PSI, MAX TEMP 450°F.
2. ROSEMOUNT METER MEETS ANSI/AWWA STANDARD C701 CLASS II STANDARDS.
3. ALL ROSEMOUNT METERS ARE NSF APPROVED.
4. AMR RESOLUTION FULLY PROGRAMMABLE, PULSE OUTPUT FREQUENCY FULLY PROGRAMMABLE. INTEGRAL DATA LOGINS CAPABILITY INTEGRAL RESET ACCURACY TESTING FEATURE COMPATIBLE WITH AR-5000 TESTING ASSISTANT PROGRAM.
5. THE CONTROLS CONTRACTOR, MECHANICAL CONTRACTOR, AND ELECTRICAL CONTRACTOR SHALL COORDINATE ALL PRODUCTS AND INTERFACE PRIOR TO ORDERING OR COMMENCEMENT OF WORK.

LEGEND

- MEDIUM PRESSURE TEE
- RECTANGULAR DUCT TURNING DOWN
- ROUND DUCT TURNING DOWN
- DUCT TURNING DOWN TO SIDEWALL REGISTER
- 22"x10" DOUBLE LINE TO DUCTWORK
- 22"x10" DUCT LINER IN LOW PRESSURE DUCT OR DOUBLE WALL INSULATED MEDIUM PRESSURE DUCT.
- BRANCH TAP OFF MAIN W/45 DEG BOOT FITTING OR SPIN-IN FITTING W/DAMPER (LOW PRESSURE)
- TRANSITION IN DUCT (NOT DIRECTION OF AIRFLOW)
- REGISTER TAPPING INTO BOTTOM OF DUCT
- FD FIRE DAMPER
- FSD FIRE/SMOKE DAMPER
- SD SMOKE DAMPER
- DSD DUCT SMOKE DETECTOR
- AD ACCESS DOOR
- AFF ABOVE FINISHED FLOOR
- BFC BELOW FINISHED CEILING
- VFD VARIABLE FREQUENCY DRIVE
- TAD TRANSFER AIR DUCT
- TAO TRANSFER AIR OPENING
- BAS BUILDING AUTOMATION CONTROL SYSTEM
- Ⓟ PRESSURE SENSOR
- Ⓑ SHUTDOWN BUTTON
- DUCT TERMINATION
- 45 FULL RADIUS TURN
- SQUARE ELBOW W/TURNING VANES
- FULL RADIUS TURN
- THERMOSTAT
- MVD MANUAL VOLUME DAMPER
- VAV VARIABLE VOLUME BOX
- SB 200 INDICATES A SIZE "B" SUPPLY DIFFUSER SET FOR 200 CFM
- RB 200 INDICATES A SIZE "B" RETURN REGISTER SET FOR 200 CFM
- EA 100 INDICATES A SIZE "A" EXHAUST REGISTER SET FOR 100 CFM
- RETURN DIFFUSER
- EXHAUST DIFFUSER
- SUPPLY DIFFUSER (4-WAY)
- SUPPLY DIFFUSER (3-WAY)
- SUPPLY DIFFUSER (2-WAY)
- SUPPLY DIFFUSER (1-WAY)
- UNDERCUT DOOR 3/4" UNLESS OTHERWISE NOTED
- DG DOOR GRILLE
- CO2 CO2 SENSOR

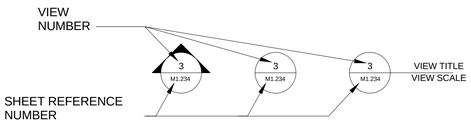
PIPING LEGEND

- HHWS HYDRONIC HOT WATER SUPPLY
- HHWR HYDRONIC HOT WATER RETURN
- DIRECTION OF WATER FLOW
- TEE
- PIPE TURNING DOWN
- PIPE TURNING UP
- PIPE SHUTOFF VALVE
- C.D. MOISTURE CONDENSATE DRAIN
- RS REFRIGERANT SUCTION
- RL REFRIGERANT LIQUID

MECHANICAL EQUIPMENT PIPE RUNOUT SIZE

1/2"	0 GPM	TO	1.4 GPM
3/4"	1.5 GPM	TO	3.2 GPM
1"	3.3 GPM	TO	6.4 GPM
1-1/4"	6.5 GPM	TO	11.4 GPM
1-1/2"	11.5 GPM	TO	18.0 GPM
2"	18.1 GPM	TO	38.5 GPM
2-1/2"	38.6 GPM	TO	59.5 GPM
3"	59.6 GPM	TO	111.6 GPM
4"	111.7 GPM	TO	229.8 GPM

VIEW NAME LEGEND



EQUIPMENT TAGGING LEGEND

A — **1** — **3**

A: EQUIPMENT TYPE
AHU - AIR HANDLEING UNIT
OAU - OUTSIDE AIR UNIT
FCU - FAN COIL UNIT
CRAC - COMPUTER ROOM A/C UNIT
EF - EXHAUST FAN
CHWP - CHILLED WATER PUMP
CP - CONDENSER WATER PUMP
CT - COOLING TOWER
HWP - HOT WATER PUMP
HX - SHELL & TUBE HEAT EXCHANGER
WSHP - WATER SOURCE HEAT PUMP
ETC...

1: FLOOR LEVEL
0 - BASEMENT
1 - 1ST FLOOR
2- 2ND FLOOR
3 - 3RD FLOOR

3: SEQUENTIAL NUMBERING
0 - 1ST UNIT
1 - 2ND UNIT
2- 3RD UNIT
3 - 4TH UNIT
4 - ETC...

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

FINAL AS-BUILT DRAWINGS

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: ICT
DRAWN BY: ICT
SUBMITTED BY: ICT
FILE NAME: M-001-HVAC-LEGEND
SIZE: 22" x 34"
ISSUE DATE: JUNE 2013
CHECKED BY: ICT
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
PLOT SCALE: 3/32" = 1'-0"
PLOT DATE: 5/1/2015 3:29:55 PM

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

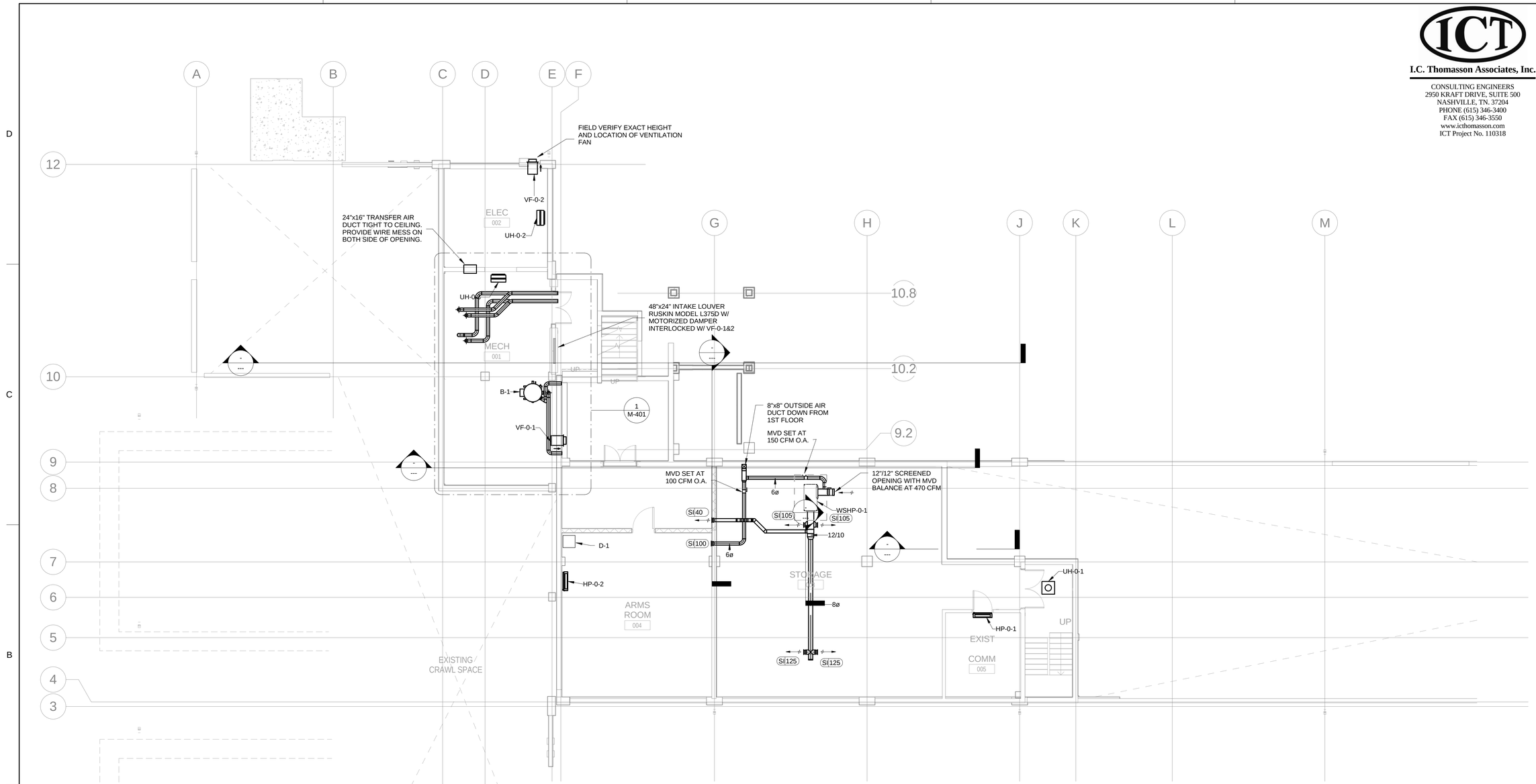
STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
HVAC LEGEND

PLATE REFERENCE NUMBER
M-001
SHEET 200

74278- M-001-



NORTH

1 M-101

HVAC - BASEMENT FLOOR PLAN

8' 4' 0' 8' 16'

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

74278- M-101-

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

KEY PLAN

FINAL AS-BUILT DRAWINGS

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.
1	REVISION #6 MODIFICATION TO BASEMENT ARMS ROOM AND NEW DOOR ADDED BETWEEN RM. 112 AND 113	5/16/14	

DESIGNED BY: ICT
DRAWN BY: ICT
CHECKED BY: ICT
SUBMITTED BY: ICT
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D-0049 T.O. 0007
CATEGORY CODE:
FILE NAME: H:\USACE\...
PLOT DATE: 5/4/2015 11:21:57 AM
SIZE: 22" x 34"
PLOT SCALE: As indicated

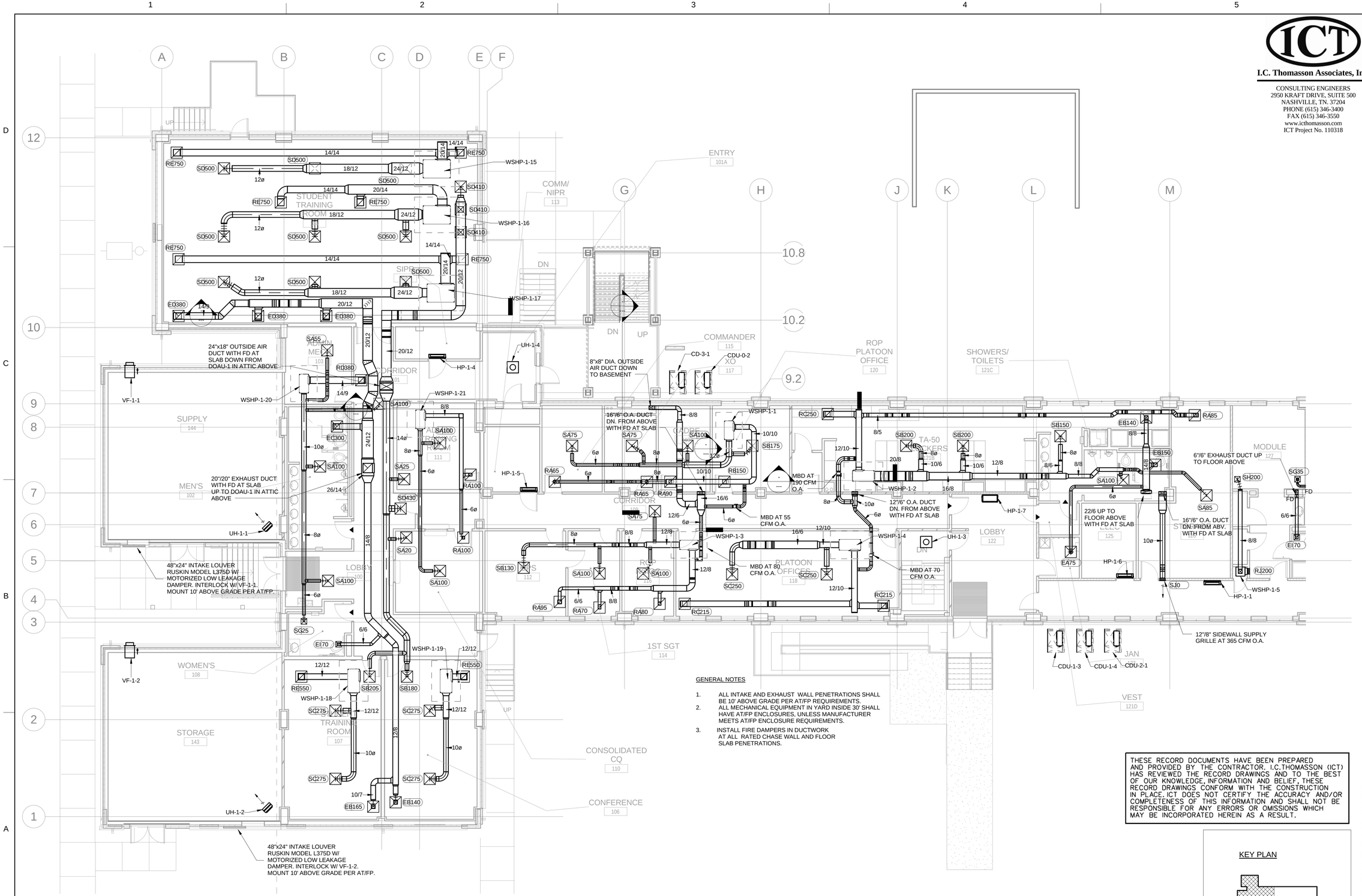
US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
HVAC - BASEMENT FLOOR PLAN

PLATE REFERENCE NUMBER
M-101
SHEET 201



I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007:
CATEGORY CODE:
DESIGNED BY: ICT
DRAWN BY: ICT
CHECKED BY: ICT
SUBMITTED BY: ICT
FILE NAME: 74278-M-111
PLOT DATE: 5/1/2015 3:30:02 PM
SIZE: 22" x 34"
PLOT SCALE: As indicated

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

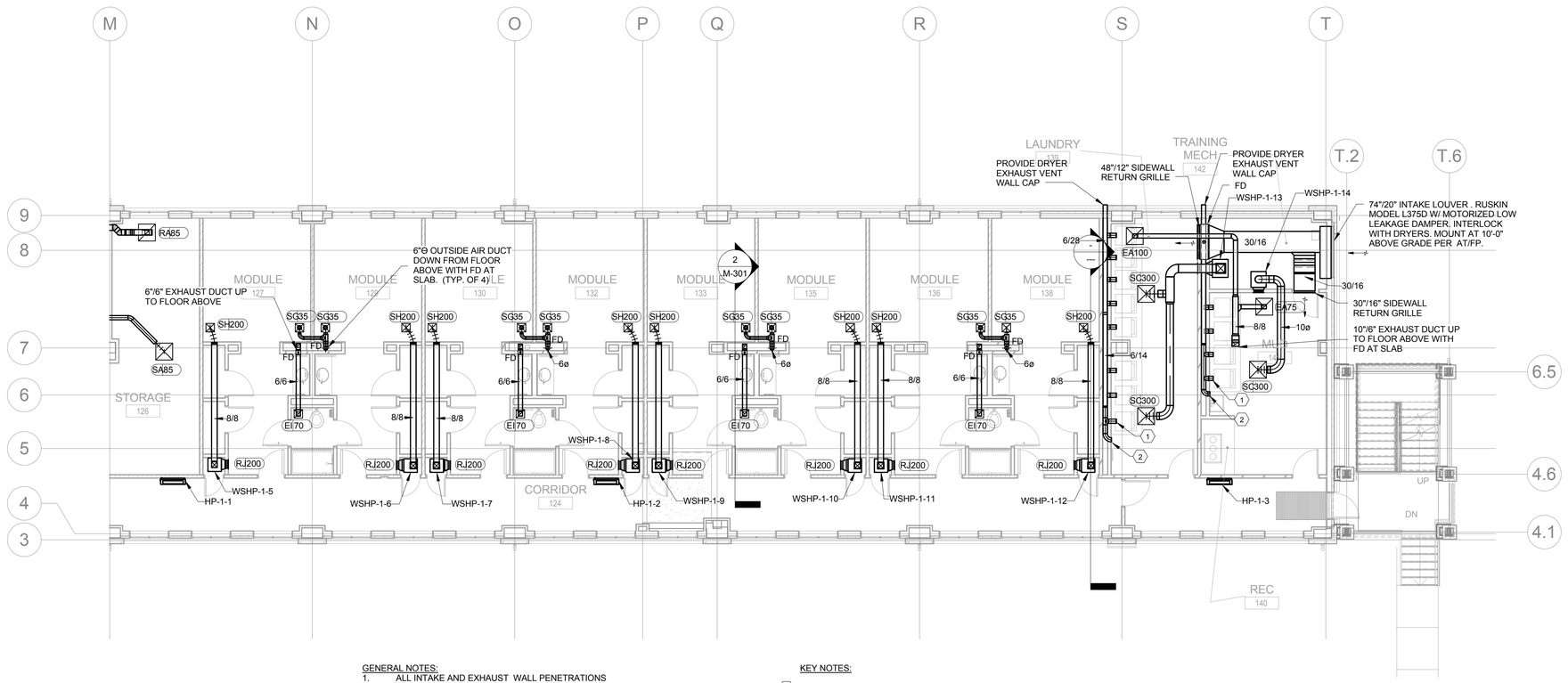
STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
HVAC - FIRST FLOOR PLAN

PLATE REFERENCE NUMBER
M-111
SHEET 202

74278- M-111-



GENERAL NOTES:

1. ALL INTAKE AND EXHAUST WALL PENETRATIONS SHALL BE 10' ABOVE GRADE PER AT/FP REQUIREMENTS.
2. ALL MECHANICAL EQUIPMENT IN YARD INSIDE 30' SHALL HAVE AT/FP ENCLOSURES, UNLESS MANUFACTURER MEETS AT/FP ENCLOSURE REQUIREMENTS.
3. INSALL FIRE DAMPERS IN DUCTWORK AT ALL RATED CHASE WALL AND FLOOR SLAB PENETRATIONS.

KEY NOTES:

(1) PROVIDE EXHAUST DUCT TO BACK OF EACH DRYER WITH LINT TRAP REVERSOMATIC MODEL LT400SD. DUCT TO BE CONNECTION SIZE OF DRYER. (TYPICAL OF 12)

(2) PROVIDE REMOVEABLE CAP/COVER TO ACCESS DRYER EXHAUST DUCT FOR MEANS OF CLEANOUT.

NORTH

1 / M-112

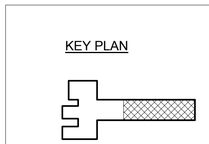
HVAC - FIRST FLOOR PLAN

8' 4' 0' 8' 16'

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

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

KEY PLAN



FINAL AS-BUILT DRAWINGS

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.ictthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
PLOT DATE: 5/1/2015 3:30:06 PM

DESIGNED BY: ICT
DRAWN BY: ICT
CHECKED BY: ICT
SUBMITTED BY: ICT
FILE NAME: HVAC - FIRST FLOOR PLAN.DWG
PLOT SCALE: As indicated
SIZE: 22" x 34"

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

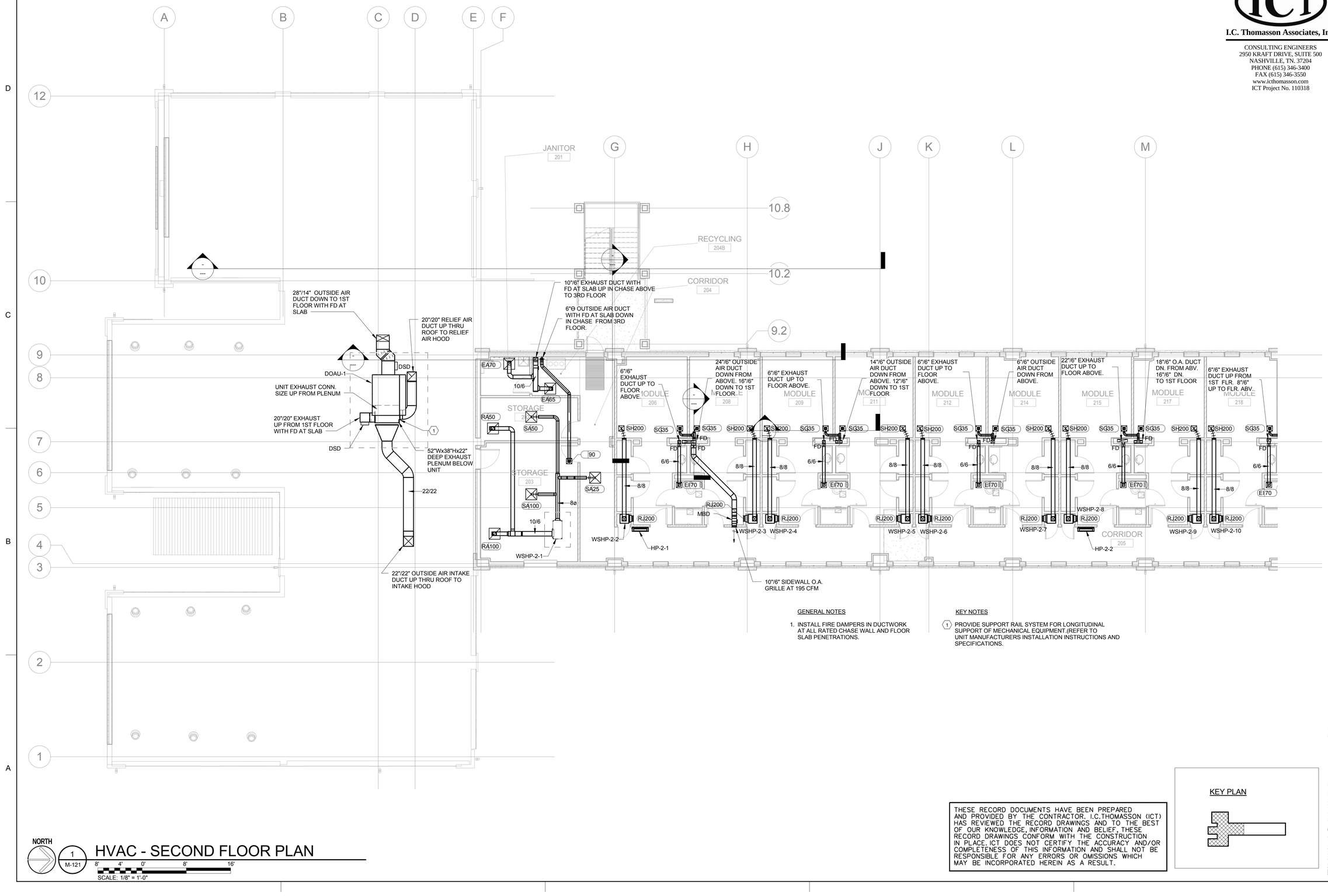
STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
HVAC - FIRST FLOOR PLAN

PLATE REFERENCE NUMBER
M-112
SHEET 203

74278- M-112-



GENERAL NOTES

1. INSTALL FIRE DAMPERS IN DUCTWORK AT ALL RATED CHASE WALL AND FLOOR SLAB PENETRATIONS.

KEY NOTES

(1) PROVIDE SUPPORT RAIL SYSTEM FOR LONGITUDINAL SUPPORT OF MECHANICAL EQUIPMENT.(REFER TO UNIT MANUFACTURERS INSTALLATION INSTRUCTIONS AND SPECIFICATIONS.

NORTH

1 / M-121

HVAC - SECOND FLOOR PLAN

8' 4' 0' 8' 16'

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

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

KEY PLAN

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.ictthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: ICT	CHECKED BY: ICT	ISSUE DATE: JUNE 2013	SOLICITATION NO.: W912HN-09-X-5107
DRAWN BY: ICT	SUBMITTED BY: ICT	CONTRACT NO.: W912HN-10-D-0049 T.O. 0007	CATEGORY CODE:
FILE NAME: M-121.dwg	PLOT SCALE: As indicated	PLOT DATE: 5/1/2015 3:30:09 PM	SIZE: 22" x 34"

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

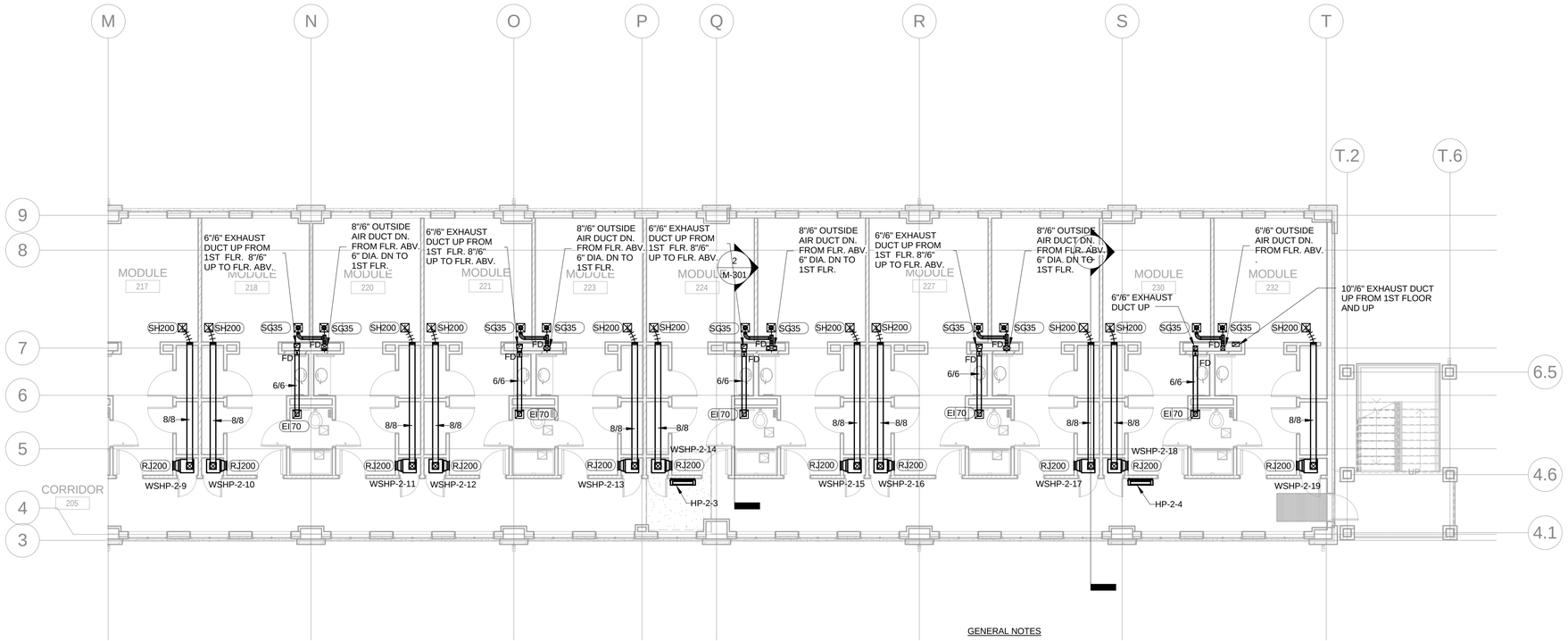
STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
HVAC - SECOND FLOOR PLAN

PLATE REFERENCE NUMBER
M-121
SHEET 204

74278- M-121-



GENERAL NOTES

1. INSALL FIRE DAMPERS IN DUCTWORK AT ALL RATED CHASE WALL AND FLOOR SLAB PENETRATIONS.

NORTH

1 / M-122

HVAC - SECOND FLOOR PLAN

8' 4' 0' 8' 16'

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

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

KEY PLAN

FINAL AS-BUILT DRAWINGS

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: ICT
DRAWN BY: ICT
SUBMITTED BY: ICT
FILE NAME: M122-HVAC-2ND FLOOR
SIZE: 22" x 34"
ISSUE DATE: JUNE 2013
CHECKED BY: ICT
SOLICITATION NO.: W912HN-09-X-S107
CONTRACT NO.: W912HN-10-D-0049 T.O. 0007
CATEGORY CODE:
PLOT SCALE: As indicated
PLOT DATE: 5/1/2015 3:30:11 PM

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

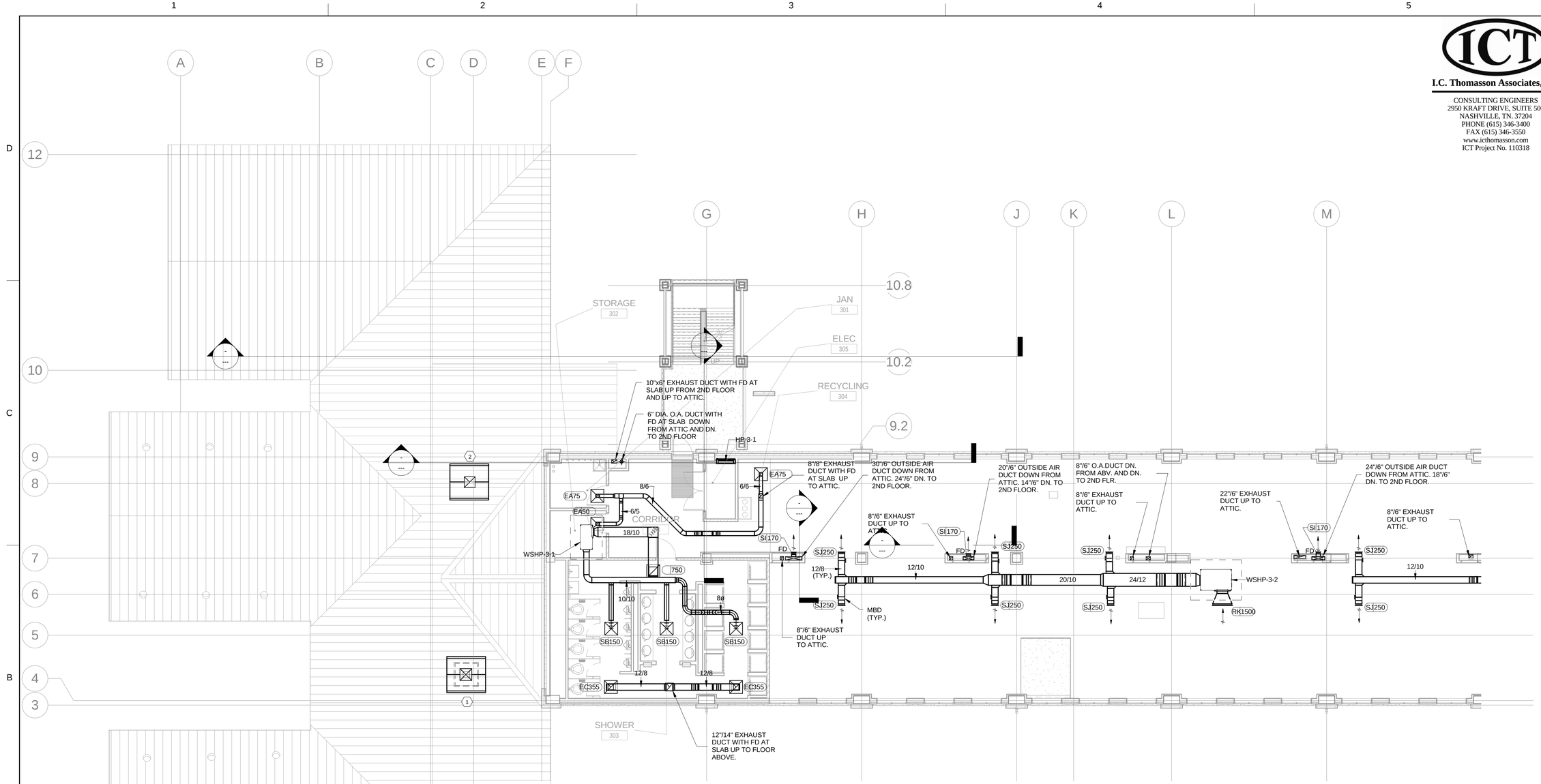
© 2012 STOA ARCHITECTS

FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
HVAC - SECOND FLOOR PLAN

PLATE REFERENCE NUMBER
M-122
SHEET 205

74278- M-122-



KEY NOTES

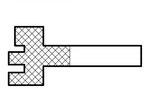
1. PROVIDE 40"/40" O.A. INTAKE HOOD. GREENHECK MODEL FGR WITH LOW LEAKAGE MOTORIZED DAMPER INTERLOCKED WITH DOAU-1
2. PROVIDE 40"/40" RELIEF AIR HOOD. GREENHECK MODEL FGR WITH LOW LEAKAGE MOTORIZED DAMPER INTERLOCKED WITH DOAU-1

GENERAL NOTES

1. INSTALL FIRE DAMPERS IN DUCTWORK AT ALL RATED CHASE WALL AND FLOOR SLAB PENETRATIONS.

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

KEY PLAN



NORTH

1 / M-131

HVAC - THIRD FLOOR PLAN

8' 4' 0' 8' 16'

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

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: ICT	DRAWN BY: ICT	SUBMITTED BY: ICT	ISSUE DATE: JUNE 2013
	CHECKED BY: ICT	SOLICITATION NO.: W912HN-09-X-S107	
		CONTRACT NO.: W912HN-10-D-0048 T.O. 0007	
		CATEGORY CODE:	
		FILE NAME: M-131.DGN	PLOT DATE: 5/1/2015 3:30:14 PM
		SIZE: 22" x 34"	PLOT SCALE: As Indicated

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
FL LIC #AA0003564

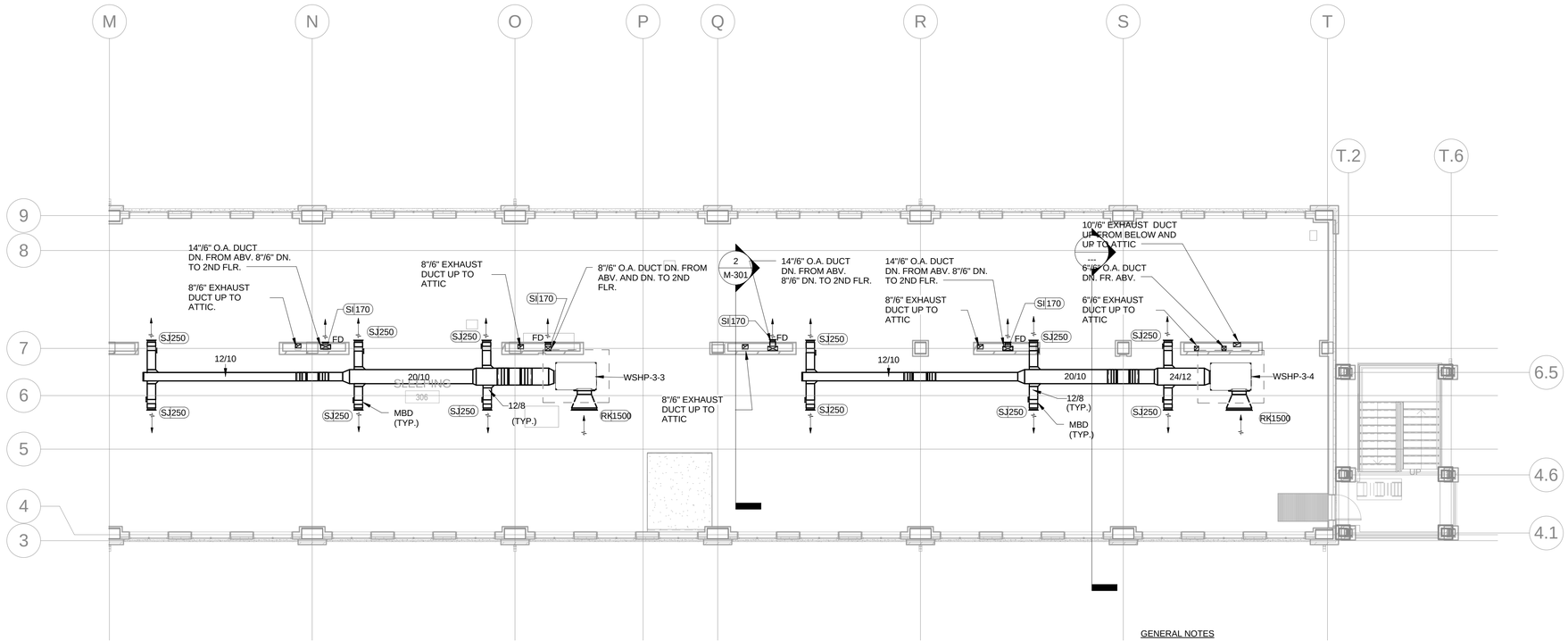
© 2013 STOA ARCHITECTS

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
HVAC - THIRD FLOOR PLAN

PLATE REFERENCE NUMBER
M-131
SHEET 206

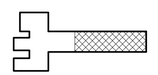
74278- M-131-



GENERAL NOTES

1. INSTALL FIRE DAMPERS IN DUCTWORK AT ALL RATED CHASE WALL AND FLOOR SLAB PENETRATIONS.

KEY PLAN



THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

NORTH

1 / M-132

HVAC - THIRD FLOOR PLAN

8' 4' 0' 8' 16'

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

FINAL AS-BUILT DRAWINGS

I.C. Thomasson Associates, Inc.

CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.ictthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: ICT
DRAWN BY: ICT
CHECKED BY: ICT
SUBMITTED BY: ICT
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-S107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
FILE NAME: M-132.dwg
PLOT DATE: 5/1/2015 3:30:15 PM
SIZE: 22" x 34"
PLOT SCALE: As indicated

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

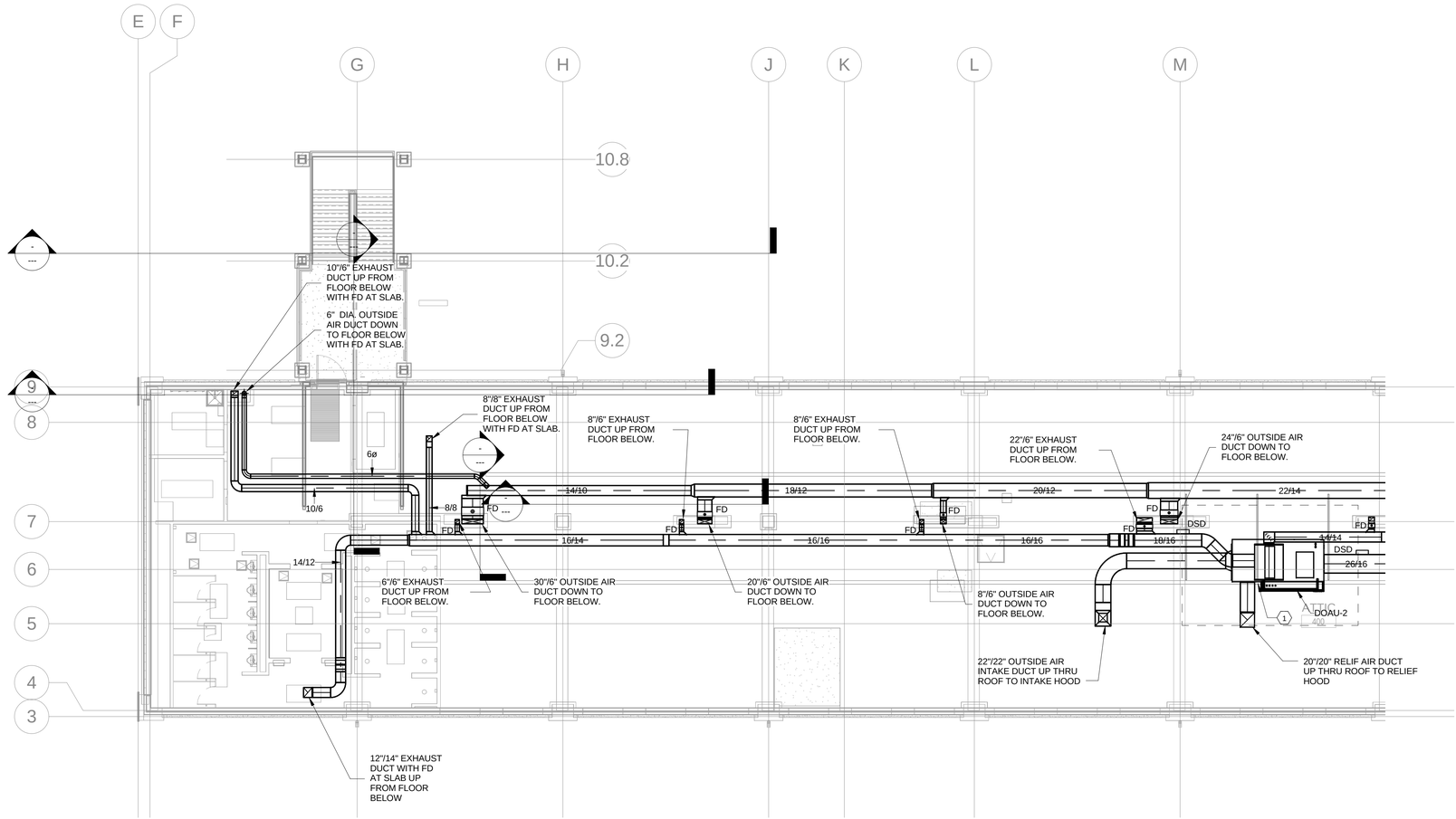
© 2012 STOA ARCHITECTS

FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
HVAC - THIRD FLOOR PLAN

PLATE REFERENCE NUMBER
M-132
SHEET 207

74278- M-132-



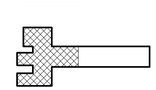
GENERAL NOTES

1. INSTALL FIRE DAMPERS IN DUCTWORK AT ALL CHASE WALL AND FLOOR SLAB PENETRATIONS.

KEY NOTES:

(1) PROVIDE SUPPORT RAIL SYSTEM FOR LONGITUDINAL SUPPORT OF MECHANICAL EQUIPMENT.(REFER TO UNIT MANUFACTURERS INSTALLATION INSTRUCTIONS AND SPECIFICATIONS.

KEY PLAN



THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

NORTH

1 / M-141

HVAC - ATTIC FLOOR PLAN

8' 4' 0' 8' 16'

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

I.C. Thomasson Associates, Inc.

CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.ictthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: ICT
DRAWN BY: ICT
SUBMITTED BY: ICT
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-S107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
FILE NAME: M-141.DWG
SIZE: 22" x 34"
PLOT SCALE: As indicated
PLOT DATE: 5/1/2015 3:30:18 PM

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

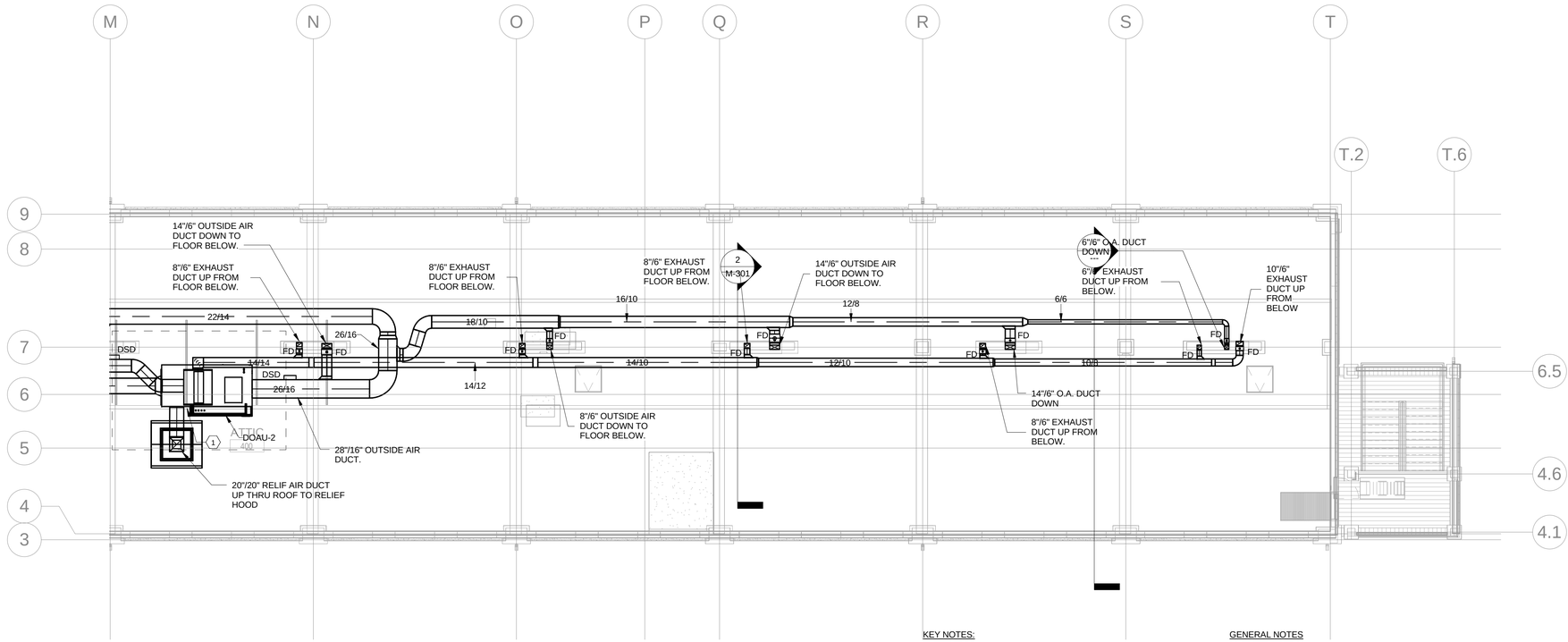
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
HVAC - ATTIC FLOOR PLAN

PLATE REFERENCE NUMBER
M-141
SHEET 208

74278- M-141-



KEY NOTES:

1 PROVIDE SUPPORT RAIL SYSTEM FOR LONGITUDINAL SUPPORT OF MECHANICAL EQUIPMENT.(REFER TO UNIT MANUFACTURERS INSTALLATION INSTRUCTIONS AND SPECIFICATIONS.

GENERAL NOTES

1. INSTALL FIRE DAMPERS IN DUCTWORK AT CHASE WALL AND FLOOR SLAB PENETRATIONS.

NORTH

1 M-142

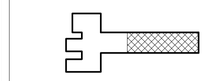
HVAC - ATTIC FLOOR PLAN

8' 4' 0' 8' 16'

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

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

KEY PLAN



FINAL AS-BUILT DRAWINGS

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: ICT	CHECKED BY: ICT	ISSUE DATE: JUNE 2013	
DRAWN BY: ICT		SOLICITATION NO.: W912HN-09-X-S107	
SUBMITTED BY: ICT		CONTRACT NO.: W912HN-10-D-0049 T.O. 0007	
FILE NAME: M-142.DWG		CATEGORY CODE:	
SIZE: 22" x 34"	PLOT SCALE: As indicated	PLOT DATE: 5/1/2015 3:30:20 PM	

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

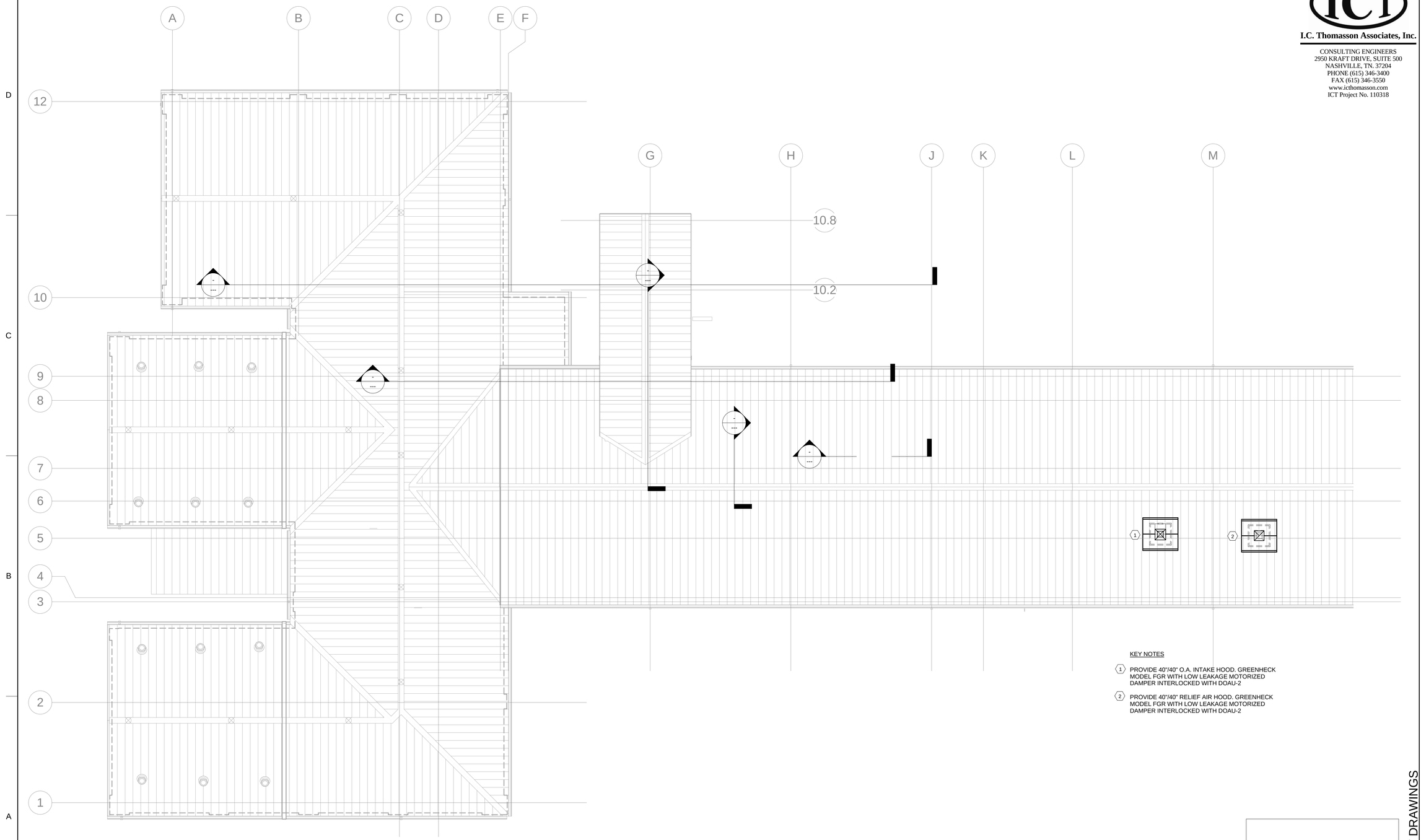
STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
HVAC - ATTIC FLOOR PLAN

PLATE REFERENCE NUMBER
M-142
SHEET 209

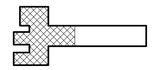
74278- M-142-



KEY NOTES

1. PROVIDE 40"/40" O.A. INTAKE HOOD. GREENHECK MODEL FGR WITH LOW LEAKAGE MOTORIZED DAMPER INTERLOCKED WITH DOAU-2
2. PROVIDE 40"/40" RELIEF AIR HOOD. GREENHECK MODEL FGR WITH LOW LEAKAGE MOTORIZED DAMPER INTERLOCKED WITH DOAU-2

KEY PLAN



THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

NORTH

1 / M-151

HVAC - ROOF PLAN

8' 4' 0' 8' 16'

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

74278- M-151-

FINAL AS-BUILT DRAWINGS

I.C. Thomasson Associates, Inc.

CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: ICT
DRAWN BY: ICT
SUBMITTED BY: ICT
FILE NAME: M-151-ROOF PLAN
SIZE: 22" x 34"
ISSUE DATE: JUNE 2013
CHECKED BY: ICT
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
PLOT DATE: 5/1/2015 3:30:22 PM
PLOT SCALE: As indicated

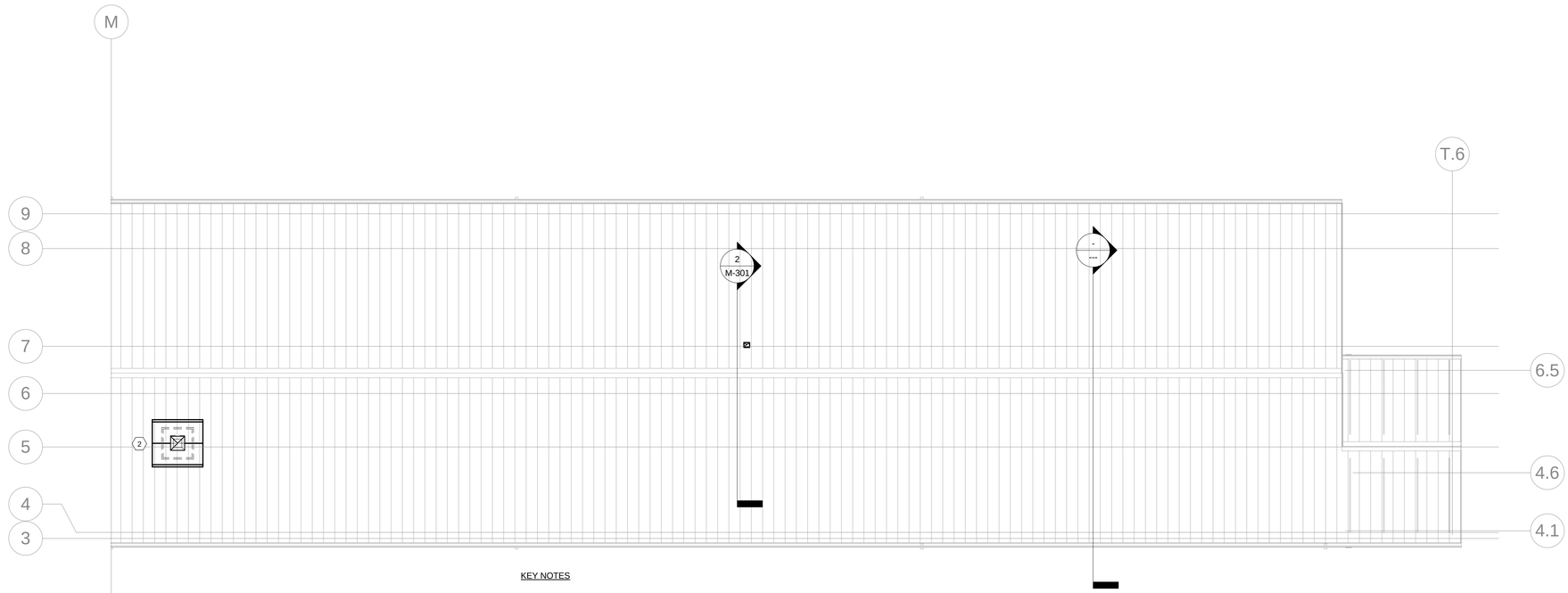
US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
HVAC - ROOF PLAN

PLATE REFERENCE NUMBER
M-151
SHEET 210



KEY NOTES

2. PROVIDE 40"/40" RELIEF AIR HOOD, GREENHECK MODEL FGR WITH LOW LEAKAGE MOTORIZED DAMPER INTERLOCKED WITH DOAU-2

NORTH

1 / M-152

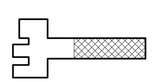
HVAC - ROOF PLAN

8' 4' 0' 8' 16'

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

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

KEY PLAN



FINAL AS-BUILT DRAWINGS

I.C. Thomasson Associates, Inc.

CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: ICT		ISSUE DATE: JUNE 2013	
DRAWN BY: ICT	CHECKED BY: ICT	SOLICITATION NO.: W912HN-09-X-5107	
SUBMITTED BY: ICT		CONTRACT NO.: W912HN-10-D-0048 T.O. 0007	
FILE NAME: M152HVAC		CATEGORY CODE:	
SIZE: 22" x 34"	PLOT SCALE: As Indicated	PLOT DATE: 5/1/2015 3:30:24 PM	

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

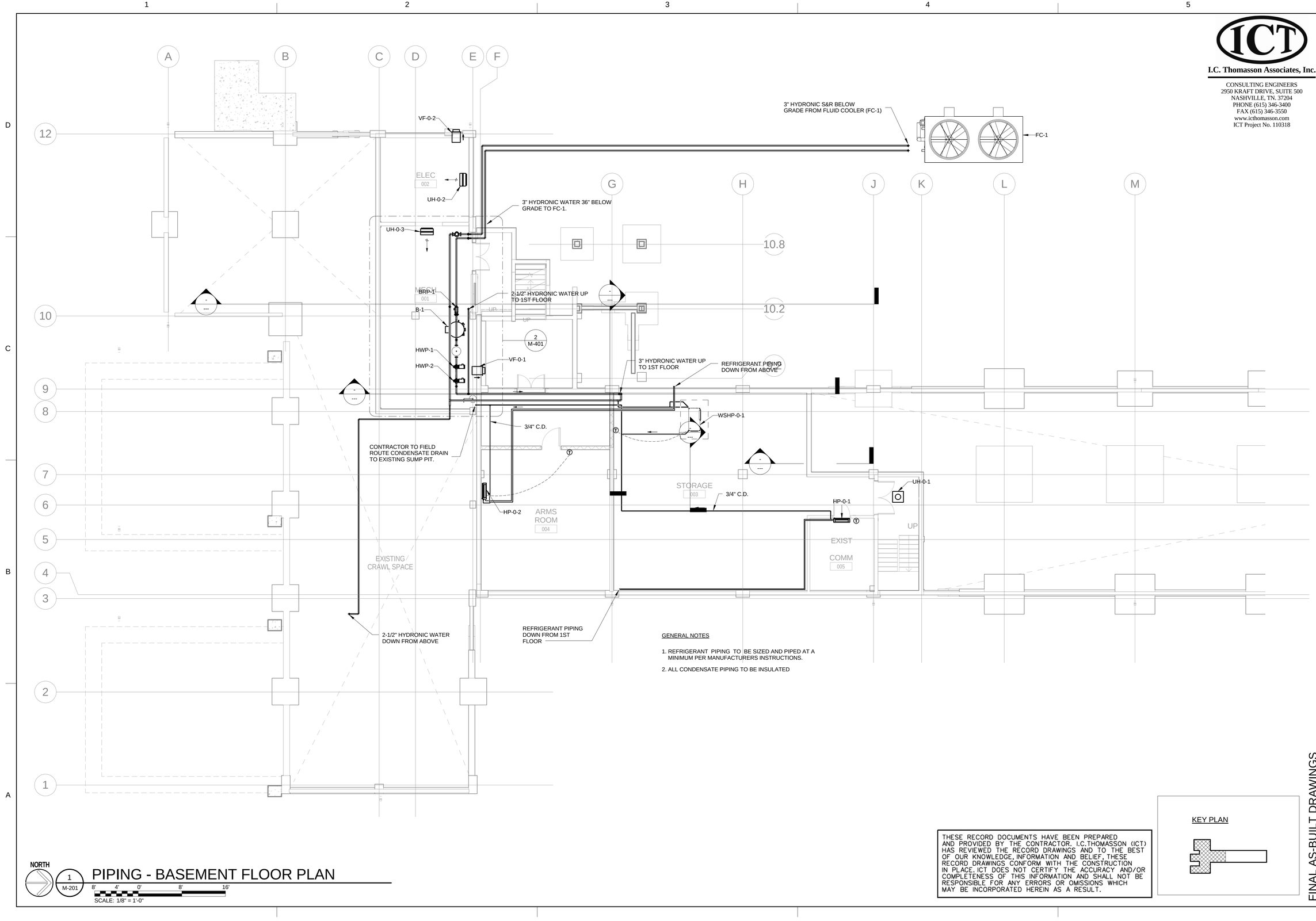
© 2012 STOA ARCHITECTS

FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
HVAC - ROOF PLAN

PLATE REFERENCE NUMBER
M-152
SHEET 211

74278- M-152-



GENERAL NOTES

1. REFRIGERANT PIPING TO BE SIZED AND PIPED AT A MINIMUM PER MANUFACTURERS INSTRUCTIONS.
2. ALL CONDENSATE PIPING TO BE INSULATED

NORTH

1 / M-201

PIPING - BASEMENT FLOOR PLAN

8' 4' 0' 8' 16'

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

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

KEY PLAN

FINAL AS-BUILT DRAWINGS

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.ictthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.
1	REVISION #6 MODIFICATION TO BASEMENT ARMS ROOM AND NEW DOOR ADDED BETWEEN RM. 112 AND 113	5/18/14	

ISSUE DATE: JUNE 2013
DESIGNED BY: ICT
DRAWN BY: ICT
SUBMITTED BY: ICT
CHECKED BY: ICT
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
FILE NAME: M-201.dgn
PLOT SCALE: As Indicated
SIZE: 22" x 34"
PLOT DATE: 5/4/2015 11:21:59 AM

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

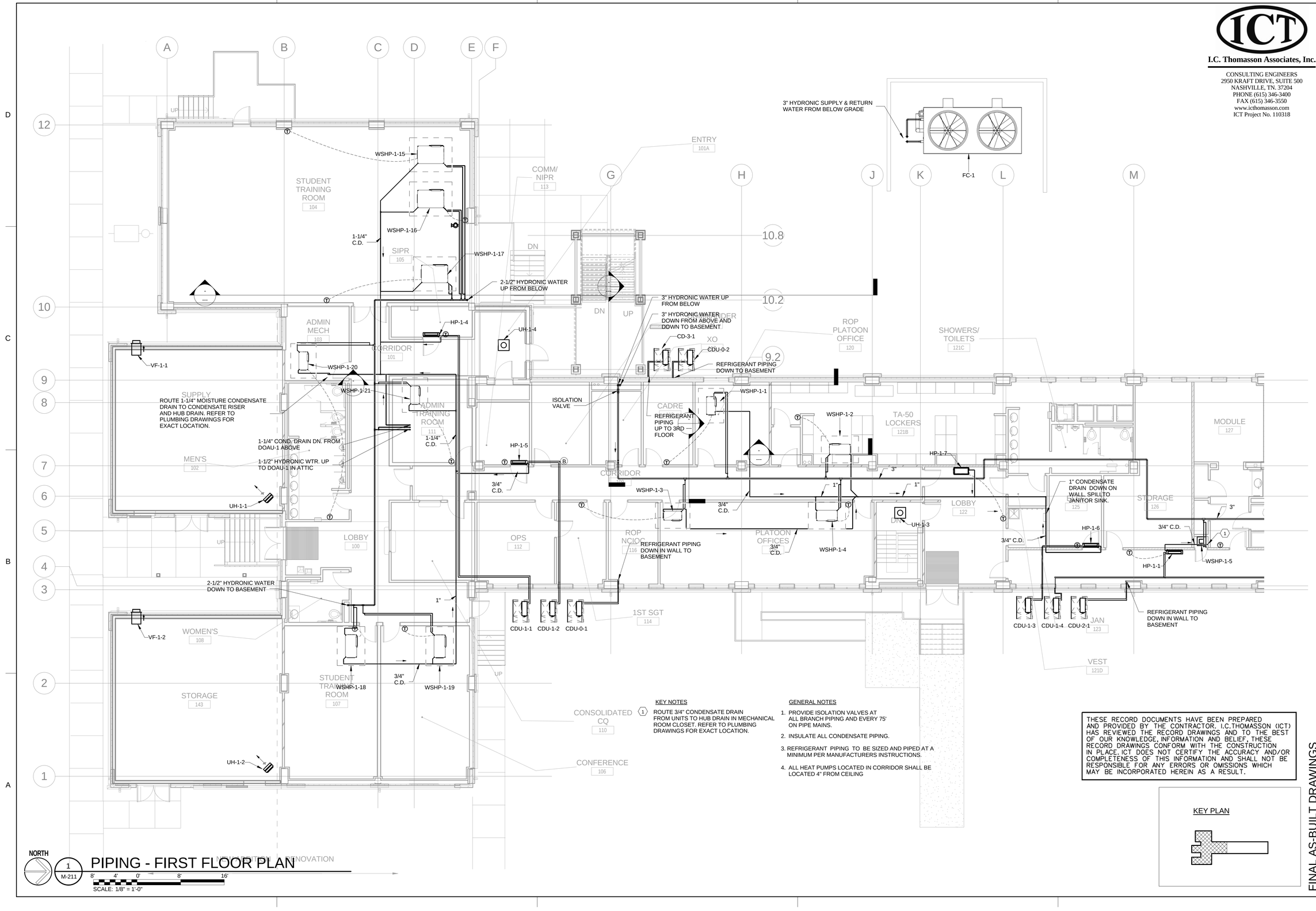
STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
PIPING - BASEMENT FLOOR PLAN

PLATE REFERENCE NUMBER
M-201
SHEET 212

74278- M-201-



KEY NOTES

1 ROUTE 3/4" CONDENSATE DRAIN FROM UNITS TO HUB DRAIN IN MECHANICAL ROOM CLOSET. REFER TO PLUMBING DRAWINGS FOR EXACT LOCATION.

GENERAL NOTES

1. PROVIDE ISOLATION VALVES AT ALL BRANCH PIPING AND EVERY 75' ON PIPE MAINS.
2. INSULATE ALL CONDENSATE PIPING.
3. REFRIGERANT PIPING TO BE SIZED AND PIPED AT A MINIMUM PER MANUFACTURERS INSTRUCTIONS.
4. ALL HEAT PUMPS LOCATED IN CORRIDOR SHALL BE LOCATED 4" FROM CEILING

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR, I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

KEY PLAN

NORTH

1 M-211

PIPING - FIRST FLOOR PLAN

NEW CONSTRUCTION RENOVATION

8' 4' 0' 8' 16'

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

74278- M-211-

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
PIPING - FIRST FLOOR PLAN

PLATE REFERENCE NUMBER
M-211
SHEET 213

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

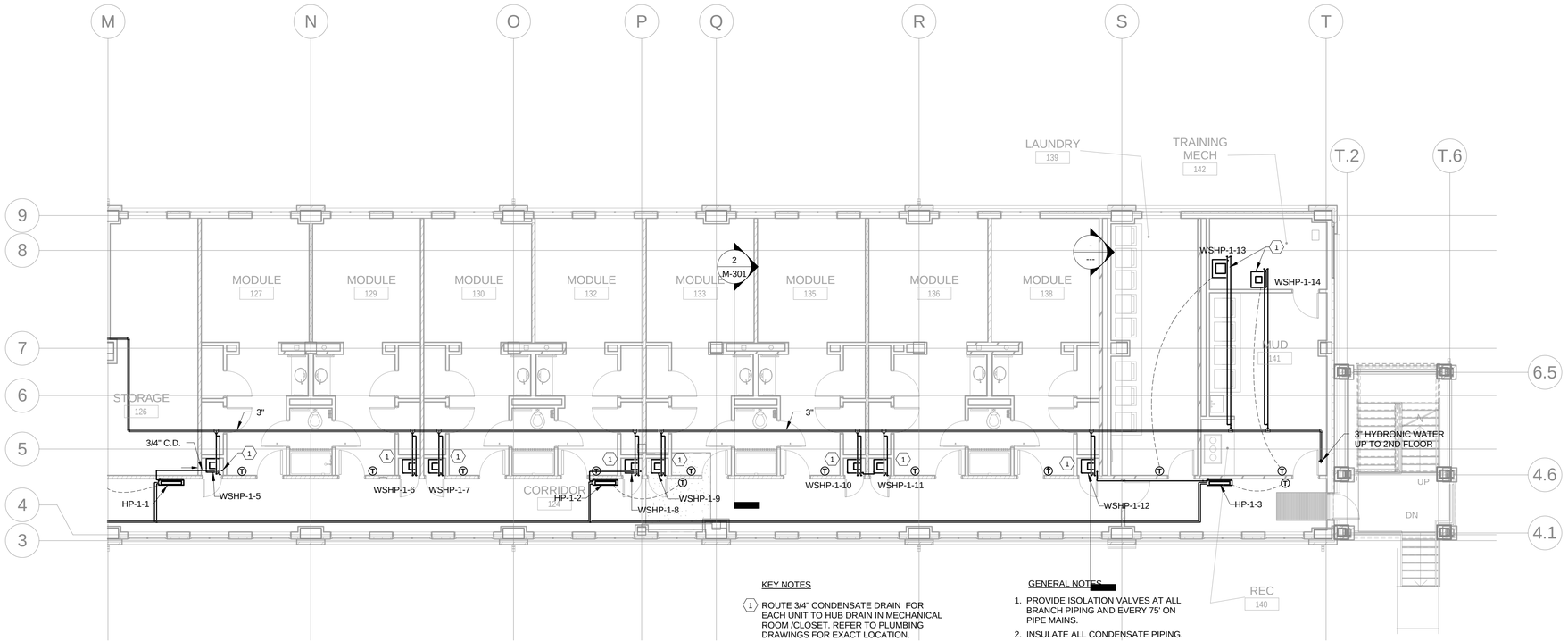
MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: ICT
DRAWN BY: ICT
SUBMITTED BY: ICT
FILE NAME: M211_FLOOR
SIZE: 22" x 34"

ISSUE DATE: JUNE 2013
CHECKED BY: ICT
SOLICITATION NO.: W912HN-09-X-S107
CONTRACT NO.: W912HN-10-D-0049 T.O. 0007
CATEGORY CODE:
PLOT SCALE: As indicated
PLOT DATE: 5/1/2013 3:30:37 PM

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564



KEY NOTES

(1) ROUTE 3/4" CONDENSATE DRAIN FOR EACH UNIT TO HUB DRAIN IN MECHANICAL ROOM /CLOSET. REFER TO PLUMBING DRAWINGS FOR EXACT LOCATION.

GENERAL NOTES

1. PROVIDE ISOLATION VALVES AT ALL BRANCH PIPING AND EVERY 75' ON PIPE MAINS.
2. INSULATE ALL CONDENSATE PIPING.
3. REFRIGERANT PIPING TO BE SIZED AND PIPED AT A MINIMUM PER MANUFACTURERS INSTRUCTIONS.
4. ALL HEAT PUMPS LOCATED IN CORRIDOR SHALL BE LOCATED 4" FROM CEILING

NORTH

1 / M-212

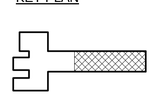
PIPING - FIRST FLOOR PLAN

8' 4' 0' 8' 16'

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

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

KEY PLAN



FINAL AS-BUILT DRAWINGS

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: ICT
DRAWN BY: ICT
SUBMITTED BY: ICT
FILE NAME: M-212 PIPING FIRST FLOOR.dwg
SIZE: 22" x 34"
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-S107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
PLOT SCALE: As indicated
PLOT DATE: 5/1/2015 3:36:40 PM

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

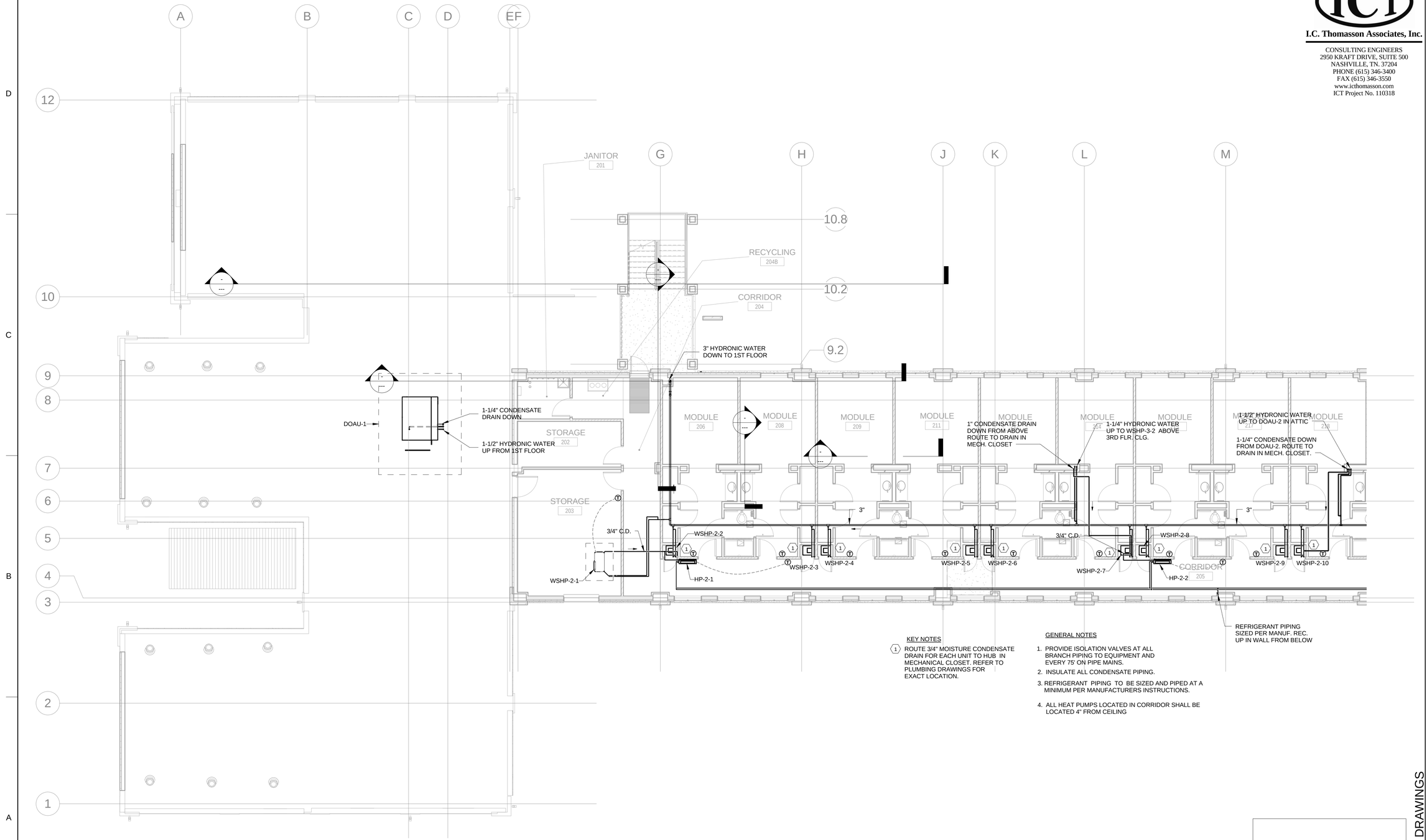
STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
PIPING - FIRST FLOOR PLAN

PLATE REFERENCE NUMBER
M-212
SHEET 214

74278- M-212-



KEY NOTES

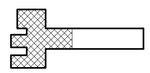
1. ROUTE 3/4" MOISTURE CONDENSATE DRAIN FOR EACH UNIT TO HUB IN MECHANICAL CLOSET. REFER TO PLUMBING DRAWINGS FOR EXACT LOCATION.

GENERAL NOTES

1. PROVIDE ISOLATION VALVES AT ALL BRANCH PIPING TO EQUIPMENT AND EVERY 75' ON PIPE MAINS.
2. INSULATE ALL CONDENSATE PIPING.
3. REFRIGERANT PIPING TO BE SIZED AND PIPED AT A MINIMUM PER MANUFACTURERS INSTRUCTIONS.
4. ALL HEAT PUMPS LOCATED IN CORRIDOR SHALL BE LOCATED 4" FROM CEILING

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

KEY PLAN



NORTH

1 / M-221

PIPING - SECOND FLOOR PLAN

8' 4' 0' 8' 16'

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

74278- M-221-

FINAL AS-BUILT DRAWINGS

I.C. Thomasson Associates, Inc.

CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: ICT
DRAWN BY: ICT
SUBMITTED BY: ICT
CHECKED BY: ICT
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-S107
CONTRACT NO.: W912JNT-10-D-0049 T.O. 0007
CATEGORY CODE:
FILE NAME: 74278-M-221
SIZE: 22" x 34"
PLOT SCALE: As indicated
PLOT DATE: 5/1/2015 3:30:44 PM

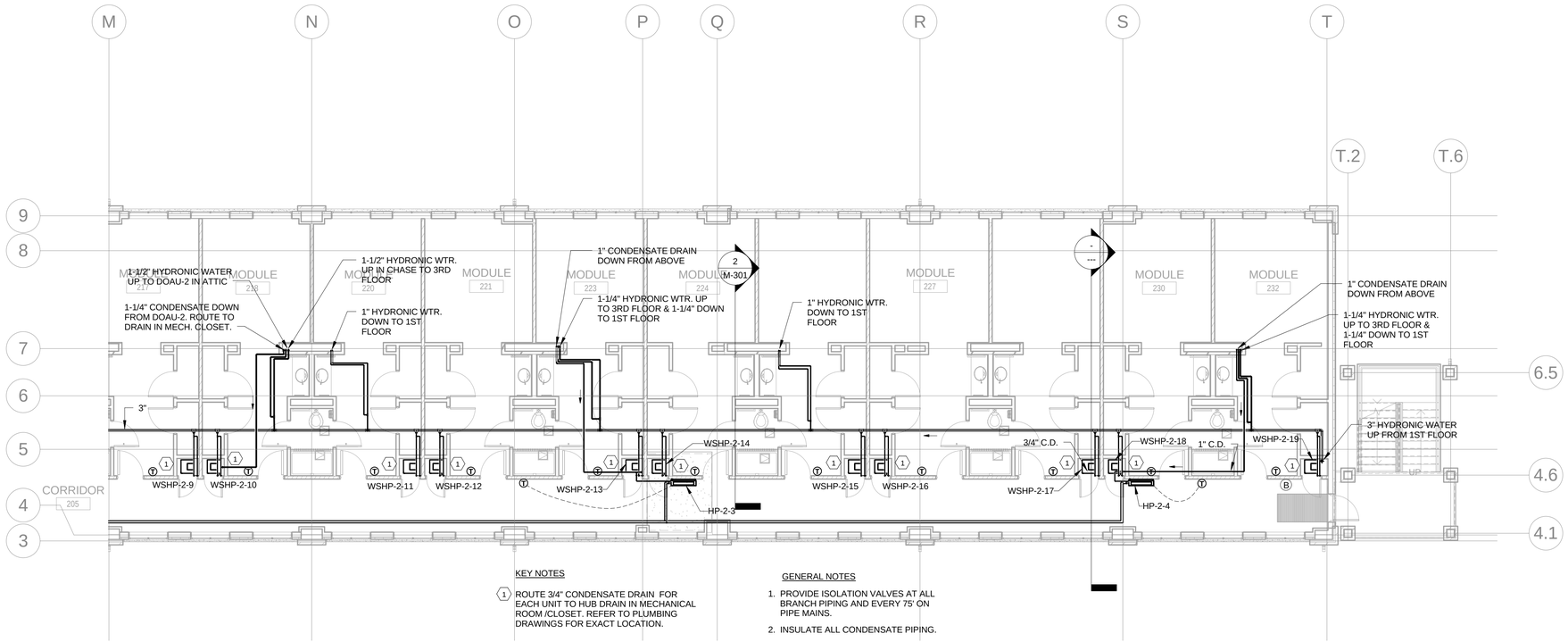
US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
PIPING - SECOND FLOOR PLAN

PLATE REFERENCE NUMBER
M-221
SHEET 215



KEY NOTES

1. ROUTE 3/4" CONDENSATE DRAIN FOR EACH UNIT TO HUB DRAIN IN MECHANICAL ROOM /CLOSET. REFER TO PLUMBING DRAWINGS FOR EXACT LOCATION.

GENERAL NOTES

1. PROVIDE ISOLATION VALVES AT ALL BRANCH PIPING AND EVERY 75' ON PIPE MAINS.
2. INSULATE ALL CONDENSATE PIPING.
3. REFRIGERANT PIPING TO BE SIZED AND PIPED AT A MINIMUM PER MANUFACTURERS INSTRUCTIONS.
4. ALL HEAT PUMPS LOCATED IN CORRIDOR SHALL BE LOCATED 4" FROM CEILING

NORTH

1 / M-222

PIPING - SECOND FLOOR PLAN

8' 4' 0' 8' 16'

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

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

KEY PLAN



FINAL AS-BUILT DRAWINGS

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
PLOT DATE: 5/1/2015 3:30:47 PM

DESIGNED BY: ICT
DRAWN BY: ICT
CHECKED BY: ICT
SUBMITTED BY: ICT
FILE NAME: M222-PIPING-2ND-FLOOR.dwg
PLOT SCALE: As indicated
SIZE: 22" x 34"

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

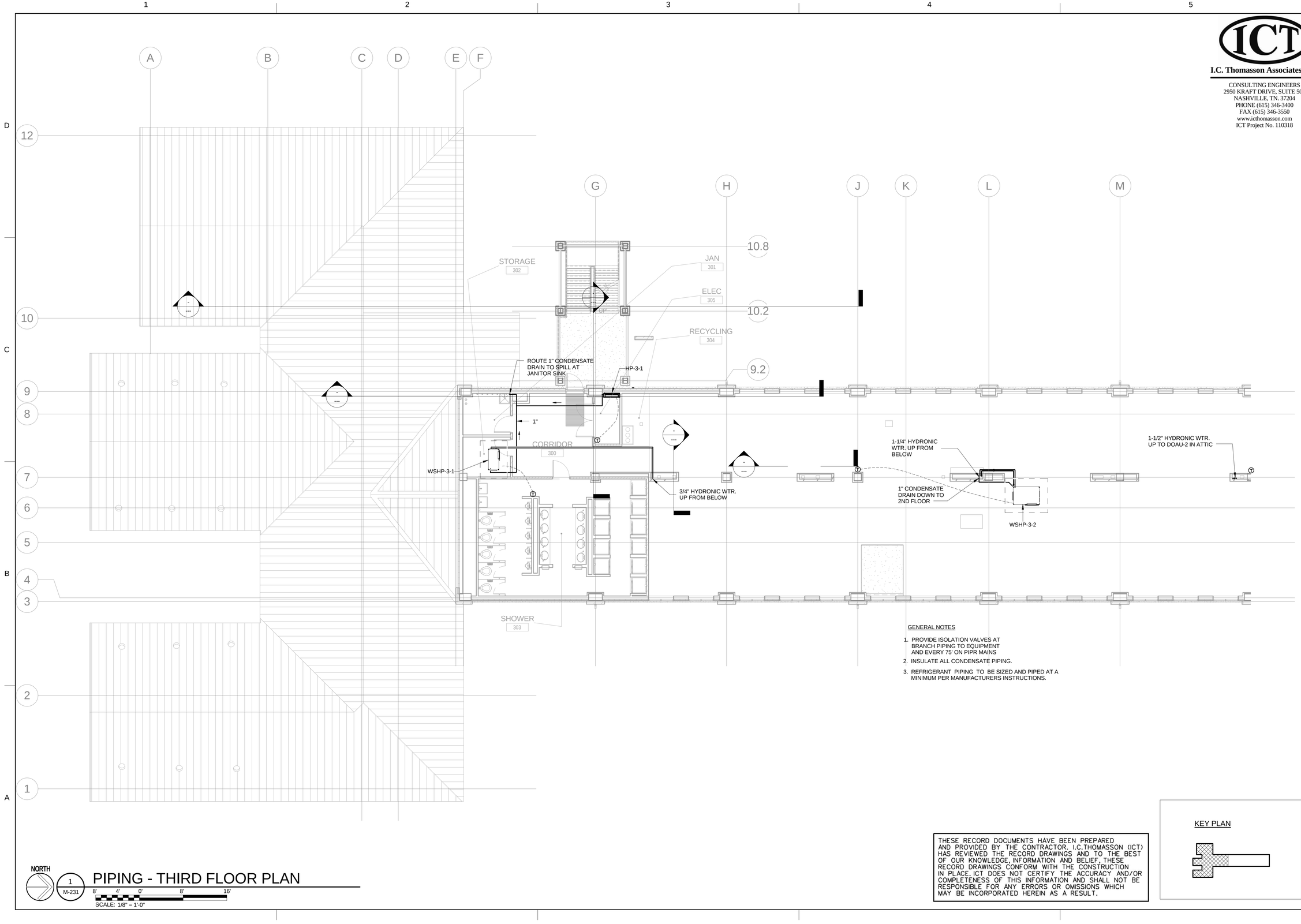
© 2012 STOA ARCHITECTS

FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
PIPING - SECOND FLOOR PLAN

PLATE REFERENCE NUMBER
M-222
SHEET 216

74278- M-222-



GENERAL NOTES

1. PROVIDE ISOLATION VALVES AT BRANCH PIPING TO EQUIPMENT AND EVERY 75' ON PIPR MAINS
2. INSULATE ALL CONDENSATE PIPING.
3. REFRIGERANT PIPING TO BE SIZED AND PIPED AT A MINIMUM PER MANUFACTURERS INSTRUCTIONS.

KEY PLAN

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

NORTH

1 / M-231

PIPING - THIRD FLOOR PLAN

8' 4' 0' 8' 16'

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

74278- M-231-

FINAL AS-BUILT DRAWINGS

I.C. Thomasson Associates, Inc.

CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: ICT
DRAWN BY: ICT
CHECKED BY: ICT
SUBMITTED BY: ICT
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-S107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
FILE NAME: M231.DWG
CATEGORY CODE:
SIZE: 22" x 34"
PLOT SCALE: As Indicated
PLOT DATE: 5/1/2015 3:30:50 PM

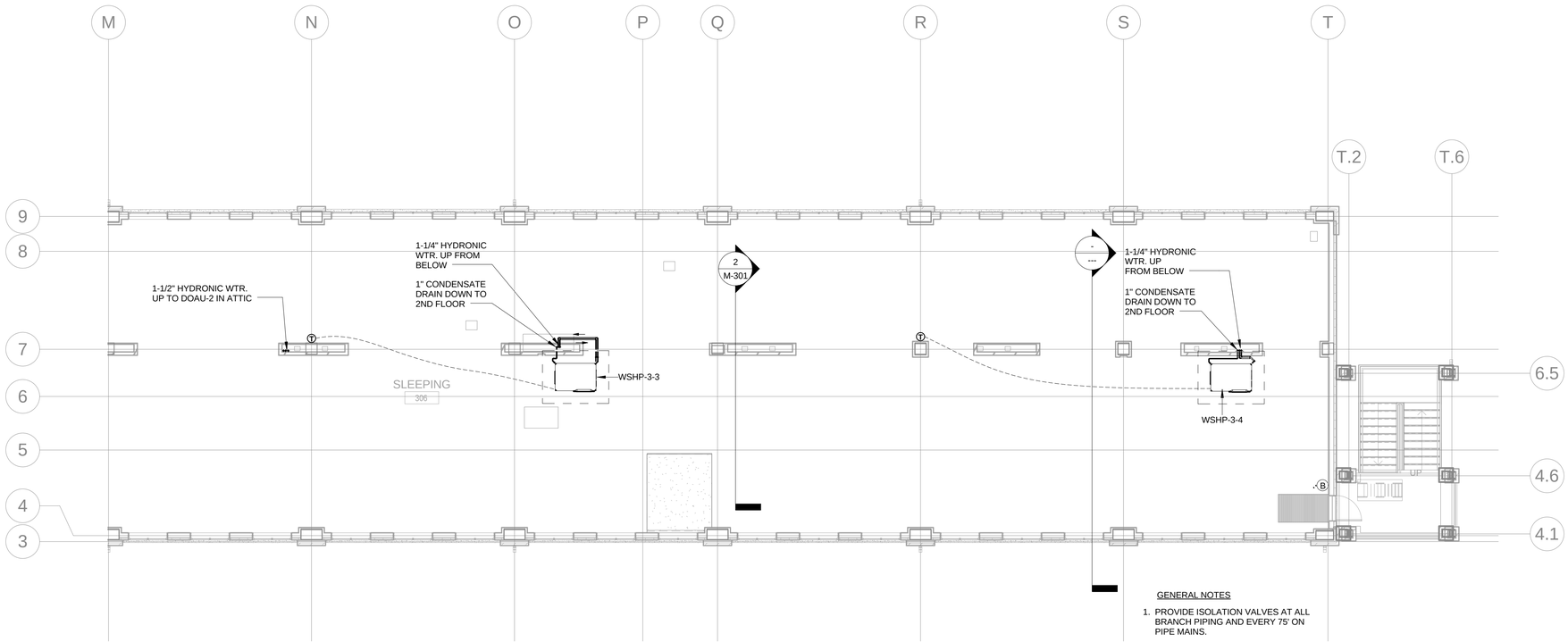
US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
FL LIC #AA0003564

© 2012 STOA ARCHITECTS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
PIPING - THIRD FLOOR PLAN

PLATE REFERENCE NUMBER
M-231
SHEET 217



GENERAL NOTES

1. PROVIDE ISOLATION VALVES AT ALL BRANCH PIPING AND EVERY 75' ON PIPE MAINS.
2. INSULATE ALL CONDENSATE PIPING.
3. REFRIGERANT PIPING TO BE SIZED AND PIPED AT A MINIMUM PER MANUFACTURERS INSTRUCTIONS.

NORTH

1 / M-232

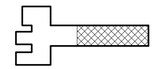
PIPING - THIRD FLOOR PLAN

8' 4' 0' 8' 16'

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

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

KEY PLAN



FINAL AS-BUILT DRAWINGS

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: ICT
DRAWN BY: ICT
CHECKED BY: ICT
SUBMITTED BY: ICT
FILE NAME: M232-PIPING-3RD FLOOR
SIZE: 22" x 34"
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-S107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
PLOT SCALE: As indicated
PLOT DATE: 5/1/2015 3:30:52 PM

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS

FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
PIPING - THIRD FLOOR PLAN

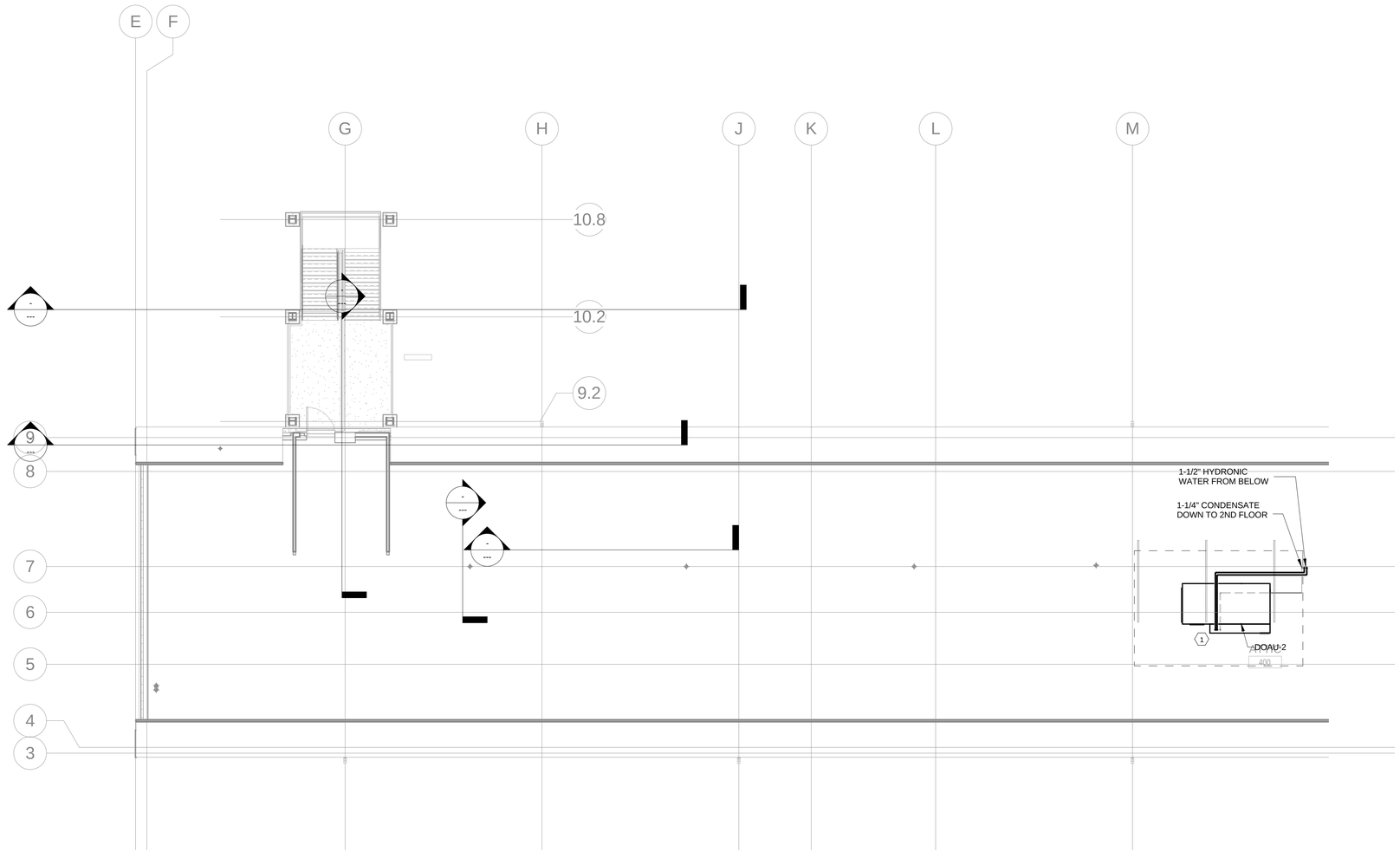
PLATE REFERENCE NUMBER
M-232
SHEET 218

74278- M-232-

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.ictthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.



GENERAL NOTES

1. PROVIDE ISOLATION VALVES AT BRANCH PIPING TO EQUIPMENT AND EVERY 75' ON PIPE MAINS
2. INSULATE ALL CONDENSATE PIPING.

KEY NOTES

(1) PROVIDE SUPPORT RAIL SYSTEM FOR LONGITUDINAL SUPPORT OF MECHANICAL EQUIPMENT.(REFER TO UNIT MANUFACTURERS INSTALLATION INSTRUCTIONS AND SPECIFICATIONS.

NORTH

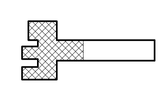
1 / M-241

PIPING - ATTIC FLOOR PLAN - WEST

8' 4' 0' 8' 16'
SCALE: 1/8" = 1'-0"

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

KEY PLAN



FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
PIPING - ATTIC FLOOR PLAN

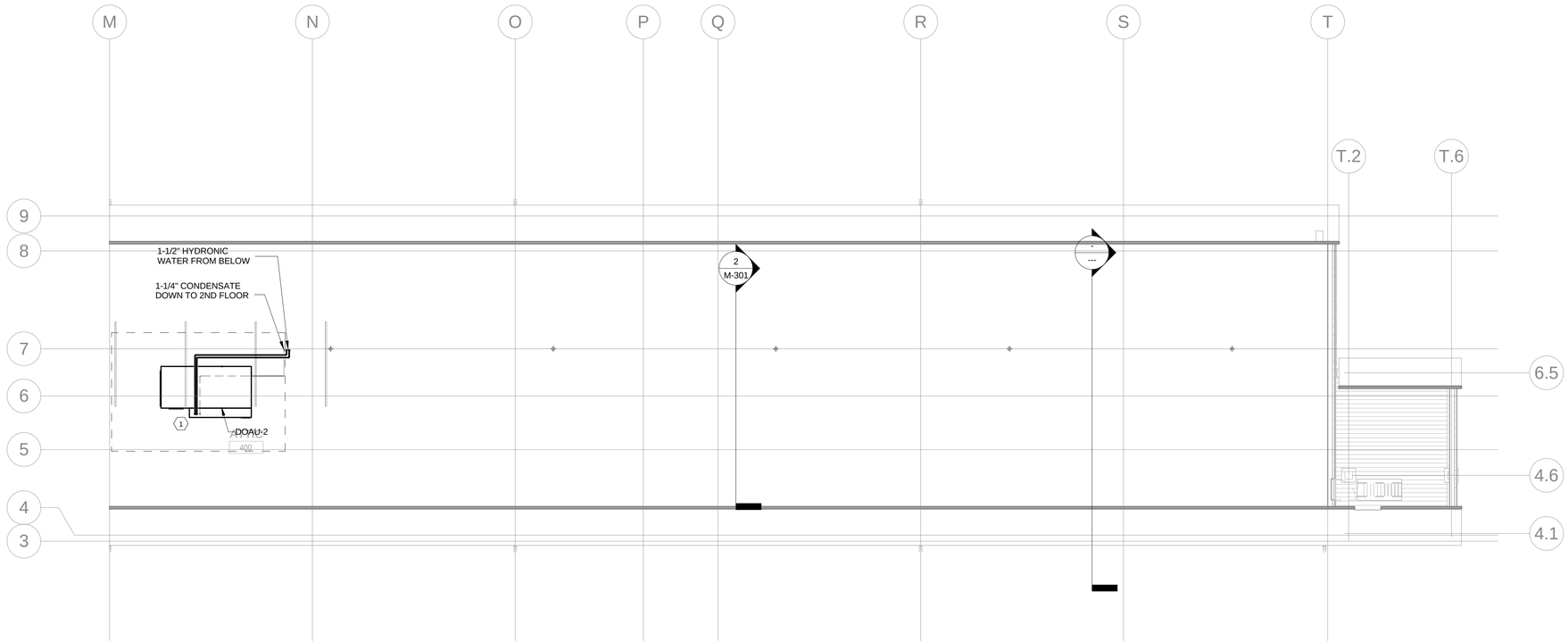
PLATE REFERENCE NUMBER
M-241
SHEET 219

DESIGNED BY: ICT	ISSUE DATE: JUNE 2013
DRAWN BY: ICT	CHECKED BY: ICT
SUBMITTED BY: ICT	SOLICITATION NO.: W912HN-09-X-S107
FILE NAME: M241.DWG	CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
SIZE: 22" x 34"	PLOT SCALE: As Indicated
	CATEGORY CODE:
	PLOT DATE: 5/1/2015 3:30:54 PM

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

74278- M-241-



GENERAL NOTES

1. PROVIDE ISOLATION VALVES ON BRANCH PIPING TO EQUIPMENT AND EVERY 75' ON PIPE MAINS.
2. INSULATE ALL CONDENSATE PIPING.

KEY NOTES:

(1) PROVIDE SUPPORT RAIL SYSTEM FOR LONGITUDINAL SUPPORT OF MECHANICAL EQUIPMENT.(REFER TO UNIT MANUFACTURERS INSTALLATION INSTRUCTIONS AND SPECIFICATIONS.

NORTH

1 / M-242

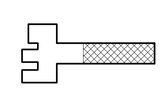
PIPING - ATTIC FLOOR PLAN - EAST

8' 4' 0' 8' 16'

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

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

KEY PLAN



FINAL AS-BUILT DRAWINGS

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: ICT
DRAWN BY: ICT
CHECKED BY: ICT
SUBMITTED BY: ICT
FILE NAME: M242-01.dgn
SIZE: 22" x 34"
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-S107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
PLOT SCALE: As indicated
PLOT DATE: 5/1/2015 3:30:55 PM

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

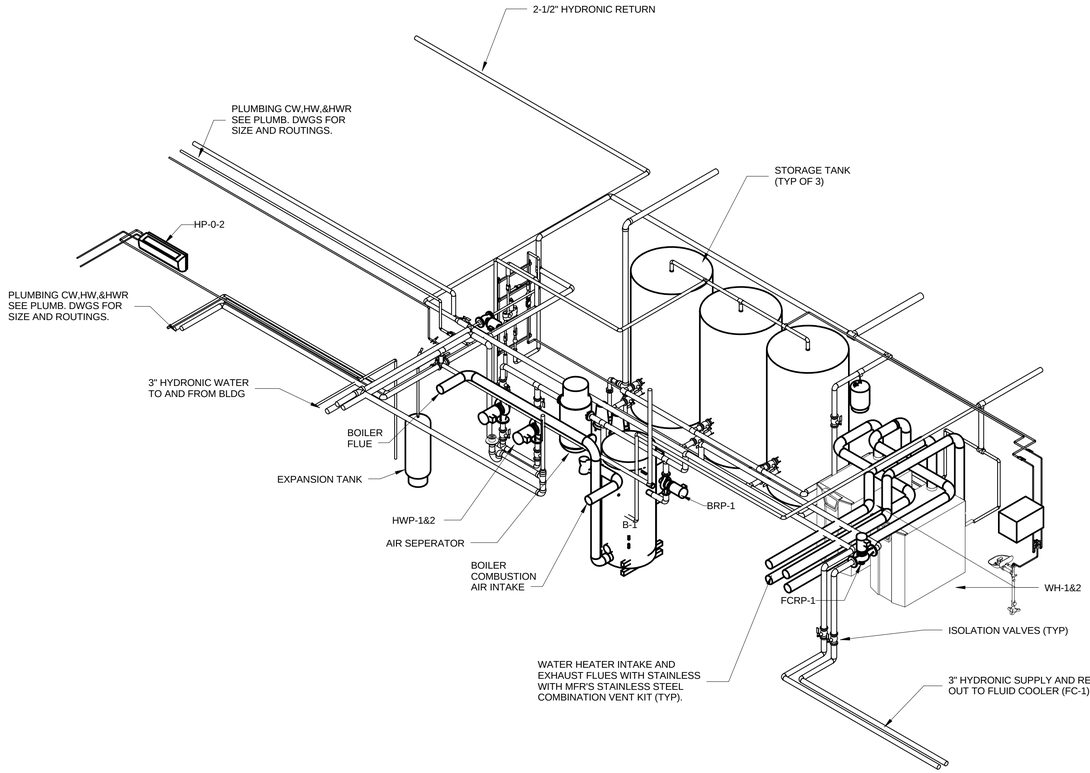
STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
PIPING - ATTIC FLOOR PLAN

PLATE REFERENCE NUMBER
M-242
SHEET 220

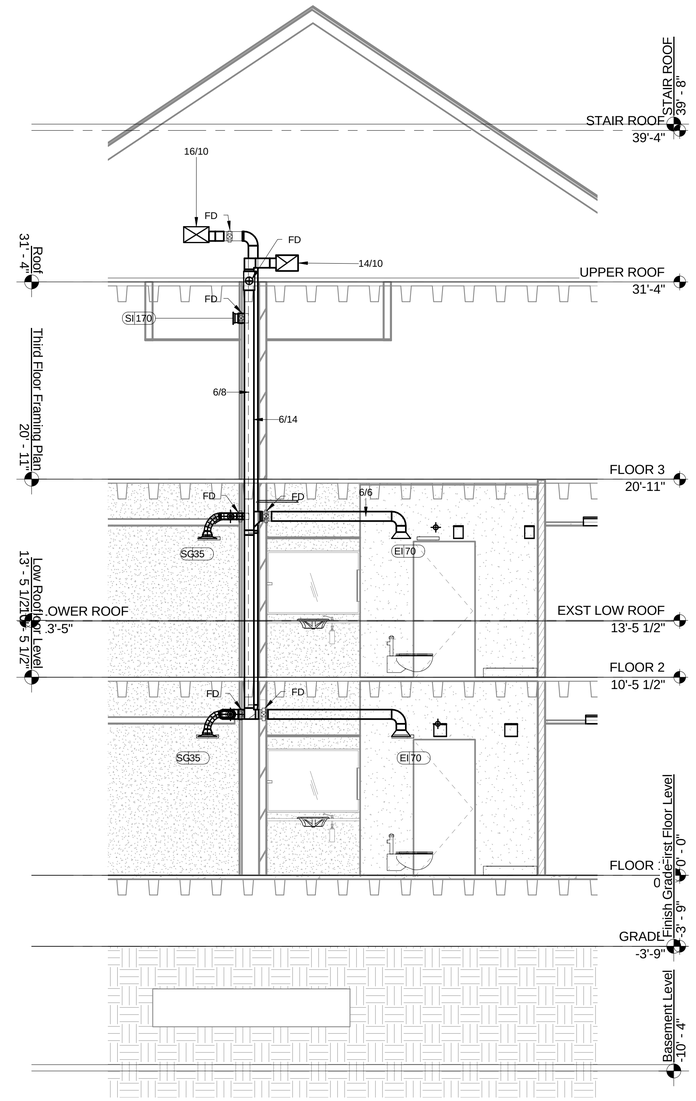
74278- M-242-



NORTH 1 M-301 MECH RM ISO

8' 4' 0' 8' 16'

SCALE:



NORTH 2 M-301 MODULE DUCT CHASE

8' 4' 0' 8' 16'

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

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

FINAL AS-BUILT DRAWINGS

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-S107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
PLOT DATE: 5/1/2015 3:30:59 PM

DESIGNED BY: ICT
DRAWN BY: ICT
CHECKED BY: ICT
SUBMITTED BY: ICT
FILE NAME: M301.DWG
SIZE: 22" x 34"
PLOT SCALE: 1/4" = 1'-0"

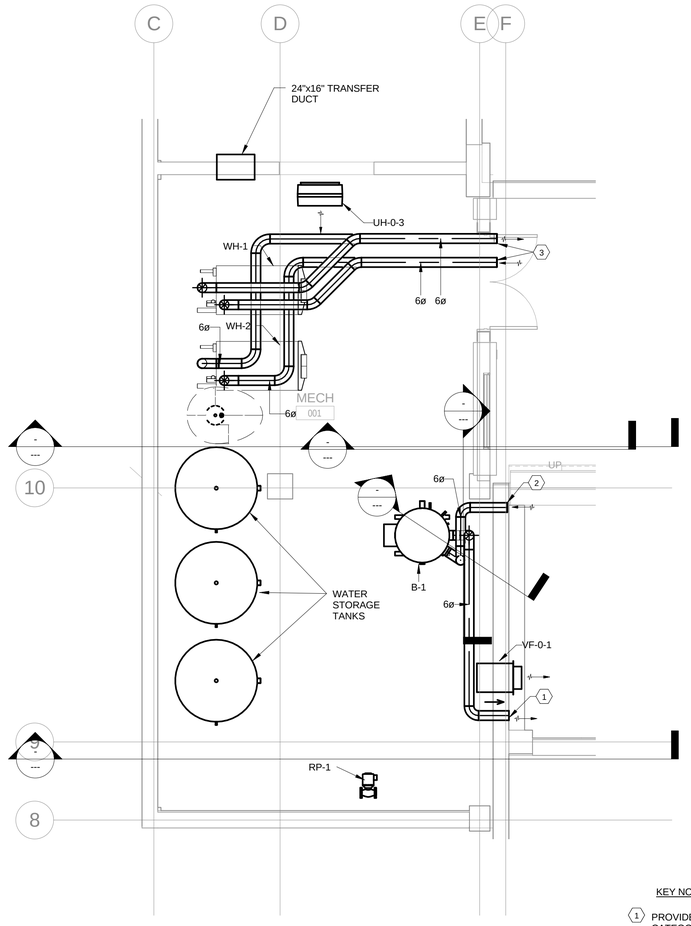
US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
HVAC BUILDING SECTION

PLATE REFERENCE NUMBER
M-301
SHEET 221

74278- M-301-



NORTH

1 M-401

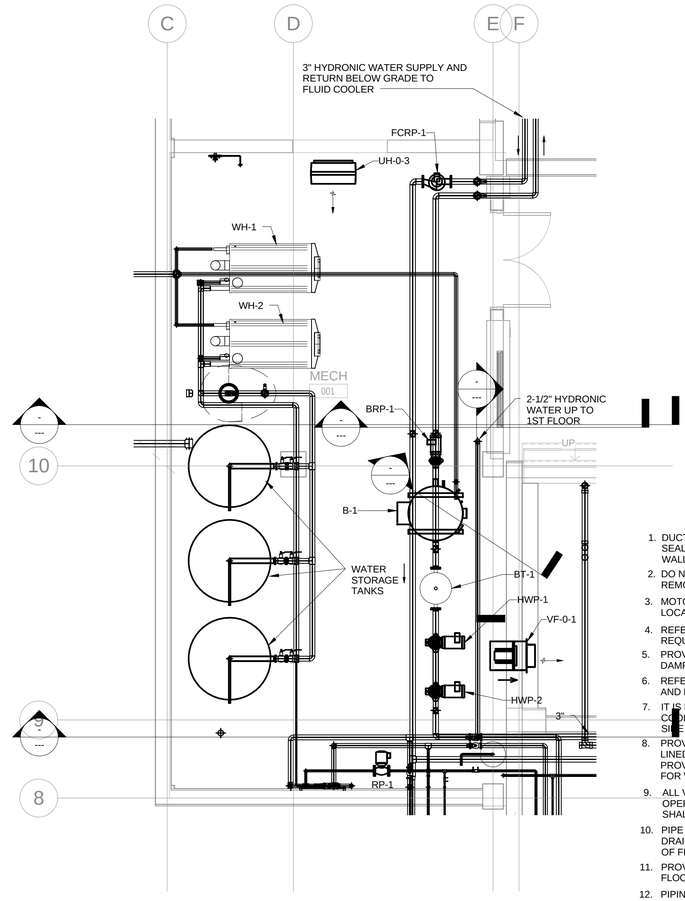
HVAC - ENLARGE MECH ROOM

8' 4' 0' 8' 16'

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

KEY NOTES

1. PROVIDE 6" STAINLESS STEEL VENT. UL LISTED CATEGORY IV FOR FLUE OF HYDRONIC HOT WATER BOILER. TERMINATE WITH MFR'S EXTERIOR WALL CAP. REFER TO HVAC DETAILS.
2. PROVIDE 6" PVC OR GALVANIZED VENT PIPE FOR INLET COMBUSTION AIR OF HYDRONIC HOT WATER BOILER. TERMINATE WITH MFR'S EXTERIOR WALL CAP. REFER TO HVAC DETAILS.
3. PROVIDE 6" STAINLESS STEEL AIR INTELT AND VENT PIPE FOR HOT WATER HEATER. TERMINATE WITH MFR'S S.S. EXTERIOR SIDEWALL KIT. PART NO. KIT30028.



NORTH

2 M-401

PIPING - ENLARGE MECH ROOM

8' 4' 0' 8' 16'

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

MECHANICAL ROOM NOTES

1. DUCTWORK DIMENSIONS SHOWN ARE INSIDE CLEAR. SEAL PENETRATIONS THROUGH MECHANICAL ROOM WALLS, FLOORS AND CEILINGS AIRTIGHT.
2. DO NOT BLOCK SERVICE SPACE ON EQUIPMENT REQUIRING REMOVAL OF COILS, TUBES, ETC.
3. MOTORIZED OUTSIDE AIR INTAKE LOUVERS SHALL BE LOCATED MIN. 10' A.F.F. PER AT/FP REQUIREMENTS.
4. REFER TO EQUIPMENT SCHEDULES FOR FILTER REQUIREMENTS.
5. PROVIDE CLEAR ACCESS TO FIRE DAMPERS, SMOKE DAMPERS, VALVES ETC.
6. REFER TO DETAIL SHEETS FOR ADDITIONAL PIPING AND INSTALLATION REQUIREMENTS.
7. IT IS REQUIRED THAT HYDRONIC WATER SUPPLY TO COOLING COILS BE CONNECTED ON AIR LEAVING SIDE OF COIL.
8. PROVIDE SOUND LINED FAN BELT GAURD AND SOUND LINED SHEET METAL HOUSING FOR FAN MOTOR. PROVIDE VENT HOLES IN HOUSING OF FAN MOTOR FOR VENTILATION.
9. ALL VALVES (EXCEPT ELECTRICALLY OR PNEUMATICALLY OPERATED VALVES) MOUNTED HIGHER THAN 6'-6" A.F.F. SHALL HAVE CHAIN WHEEL OPERATORS.
10. PIPE DRAIN LINES FROM EQUIPMENT TO NEAREST FLOOR DRAIN. REFER TO PLUMBING DRAWINGS FOR LOCATIONS OF FLOOR DRAINS.
11. PROVIDE 4" CONCRETE HOUSEKEEPING PADS UNDER FLOOR MOUNTED EQUIPMENT.
12. PIPING INSULATION TYPE AND THICKNESS SHALL BE AS DESCRIBED IN SPECIFICATIONS.
13. EQUIPMENT SIZES AND SERVICE SPACE REQUIREMENTS MAY VARY BETWEEN MANUFACTURERS. CONSULT SUBMITTED AND APPROVED MANUFACTURER FOR APPLICATION WITH THIS DRAWING.
14. COLOR CODING AND STENCILING OF PIPING SYSTEMS SHALL BE IN ACCORDANCE WITH SPECIFICATIONS. REFER TO OTHER DISCIPLINES DRAWINGS FOR COORDINATION WITH THIS DRAWING.
15. MAINTAIN 6'-0" HIGH MINIMUM CLEARANCE ABOVE AISLES
16. ALL MECHANICAL EQUIPMENT OUTSIDE BUILDING WITHIN 33' SHALL MEET AT/FT ENCLOSURE PER RFP.

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

FINAL AS-BUILT DRAWINGS

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.
1	REVISION #5 MODIFICATION TO BASEMENT ARMS ROOM AND NEW DOOR ADDED BETWEEN RM. 112 AND 113	5/16/14	

ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D-0049 T.O. 0007
DESIGNED BY: ICT
DRAWN BY: ICT
CHECKED BY: ICT
SUBMITTED BY: ICT
CATEGORY CODE:
FILE NAME: M401_HVAC
SIZE: 22" x 34"
PLOT SCALE: 1/4" = 1'-0"
PLOT DATE: 5/4/2015 11:22:00 AM

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

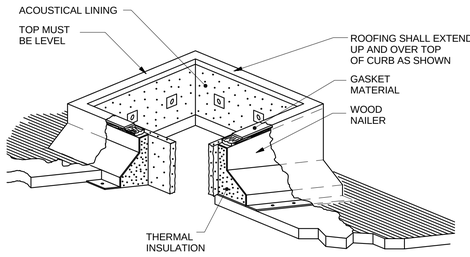
STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS
FL LIC #AA0003954

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
HVAC ENLARGED PLANS

PLATE REFERENCE NUMBER
M-401
SHEET 222

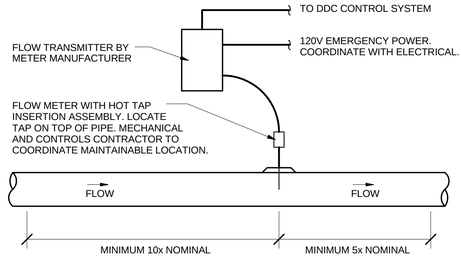
74278- M-401-



NOTES:

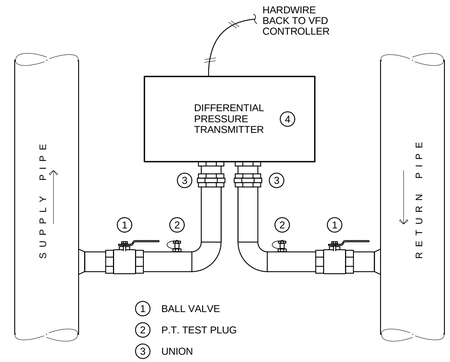
1. CURB HEIGHT ON UP-SLOPE SIDE SHALL BE AS SET FORTH IN MECH. SPECS. SECURE CURB TO ROOF WITH SHEET METAL SCREWS, LAG BOLTS, OR OTHER METHODS CONSISTENT WITH ROOF CONSTRUCTION.
2. COORDINATE FASTENING SPACING WITH LOCAL WIND LOADS AND SIESMIC REQUIREMENTS.

SLOPED ROOF CURB ON METAL DECK DETAIL — 1
No Scale



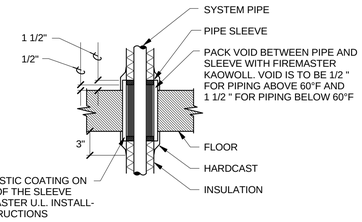
MINIMUM STRAIGHT PIPE RUNS SHALL BE FREE OF ALL FITIINGS AND DEVICES SUCH AS THERMOMETERS, P/T TEST PORTS, ETC.

FLOW METER INSTALLATION DETAIL — 2
No Scale



1. BALL VALVE
2. P.T. TEST PLUG
3. UNION
4. REFER TO DRAWINGS FOR LOCATION

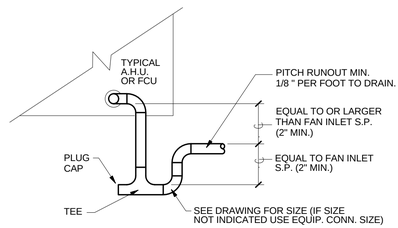
DIFFERENTIAL PRESSURE SENSOR DETAIL — 3
No Scale



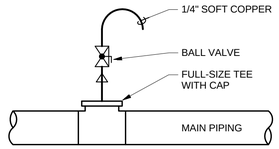
NOTES :

1. WRAP JOINTS FORMED BY THE INSULATION AND PIPE SLEEVE WITH (2) LAYERS OF "HARDCAST" DUCT JOINT WRAP.
2. SEE SPECS FOR MORE DETAILED INSTALLATION REQUIREMENTS.
3. SLEEVES THRU THE FLOOR ON GRADE SHALL BE LEADED AND CAULKED.
4. SEAL SYSTEM SHALL BE INSTALLED ACCORDING TO THERMAL CERAMICS FIREMASTER U.L. APPROVED INSTRUCTIONS AND WITHSTAND ASTM E119 HOSE STREAM TEST.

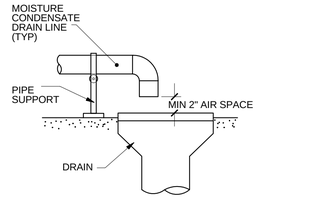
DETAIL PIPE SLEEVE THRU FLOOR — 4
No Scale



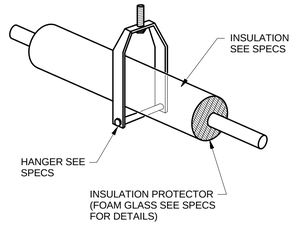
TYPICAL A.H.U. DRAIN TRAP — 5
No Scale



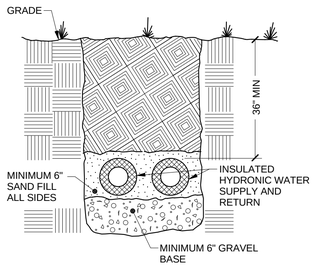
TYPICAL VENT DETAIL FOR CHILLED AND HOT WATER PIPING — 6
No Scale



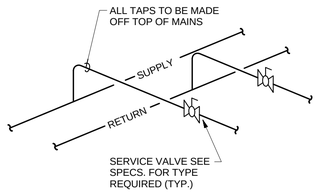
TERMINATION DETAIL OF MOISTURE CONDENSATE LINE — 7
No Scale



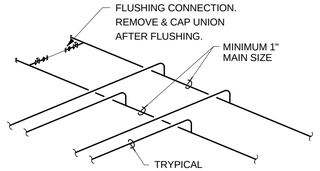
PIPE HANGER DETAIL — 8
No Scale



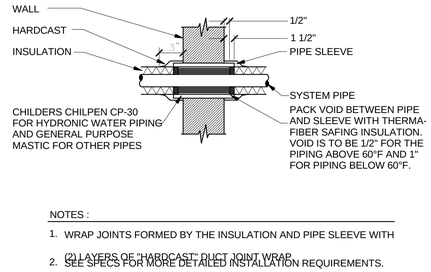
UNDERGROUND HYDRONIC WATER PIPING DETAIL — 9
No Scale



DETAIL OF PIPING AT BRANCH TAKE-OFF — 10
No Scale



HYDRONIC WATER END OF MAIN FLUSHING DETAIL — 11
No Scale



NOTES :

1. WRAP JOINTS FORMED BY THE INSULATION AND PIPE SLEEVE WITH
2. (2) LAYERS OF "HARDCAST" DUCT JOINT WRAP.
3. SEE SPECS FOR MORE DETAILED INSTALLATION REQUIREMENTS.

DETAIL PIPE SLEEVE THRU WALL — 12
No Scale

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY I.C. THOMASSON ASSOCIATES (ICT). ICT HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
HVAC DETAILS

PLATE REFERENCE NUMBER
M-501
SHEET 223

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

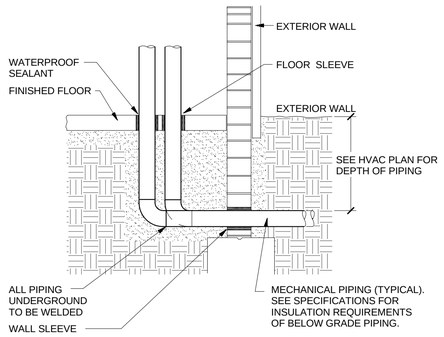
DESIGNED BY: ICT		ISSUE DATE: JUNE 2013	
DRAWN BY: ICT	CHECKED BY: ICT	SOLICITATION NO.: W912HN-09-X-5107	
SUBMITTED BY: ICT		CONTRACT NO.: W912HN-10-D-0049 T.O. 0007	
FILE NAME: M501.dgn		CATEGORY CODE:	
SIZE: 22" x 34"	PLOT SCALE: 3/32" = 1'-0"	PLOT DATE: 5/1/2015 3:31:04 PM	

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

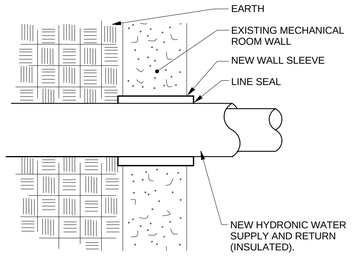
STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS
FL LIC #AA0003954

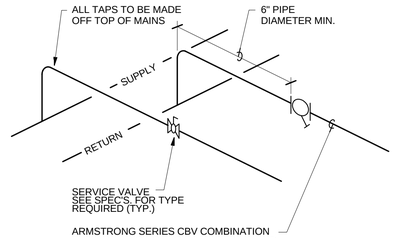
74278- M-501-



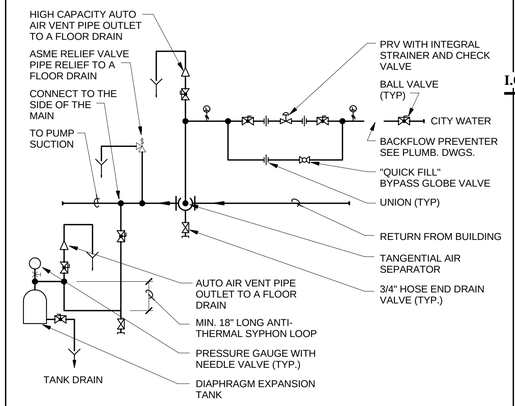
HYDRONIC WATER ENTRANCE 13
No Scale



HYDRONIC WATER LINES ENTERING BUILDING 14
No Scale

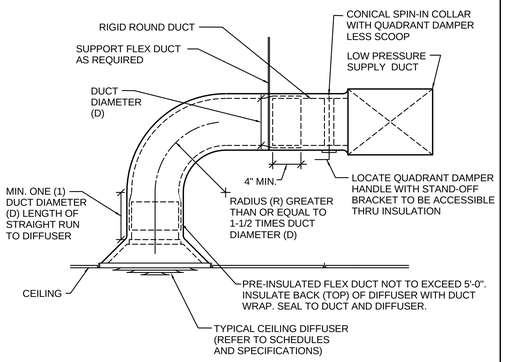


DETAIL OF PIPING AT FLOW MEASURING STATION 15
No Scale



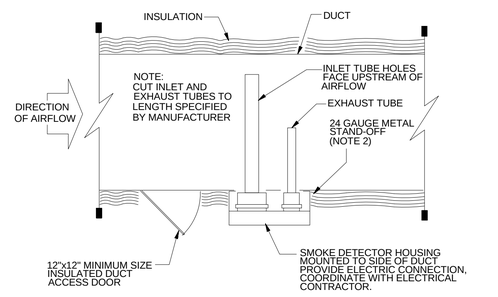
NOTES:
SEE EXPANSION TANK SCHEDULE FOR RELIEF VALVE AND PRV SETTINGS AND TANK SIZE.

DIAPHRAM EXPANSION TANK DETAIL 16
No Scale



NOTE:
REFER TO SPECIFICATIONS FOR LOW PRESSURE SUPPLY AIR DUCT INSULATION REQUIREMENTS.

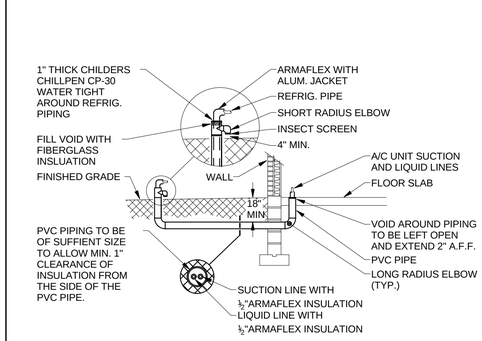
CEILING DIFFUSER CONNECTION 17
No Scale



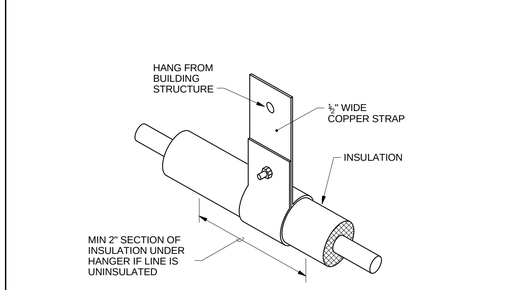
NOTES:

1. DETAIL SHOWS GENERAL INSTALLATION METHODS. REFER TO INDIVIDUAL MANUFACTURER FOR THEIR SPECIFIC INSTALLATION AND LOCATION INSTRUCTIONS.
2. STANDOFF BRACKET. PROVIDE INSULATION BETWEEN BRACKET AND DUCT. BRACKET NOT REQUIRED ON NON-INSULATED DUCT.

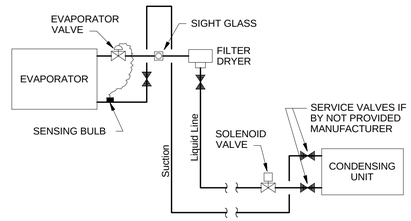
DUCT MOUNTED SMOKE DETECTOR 18
No Scale



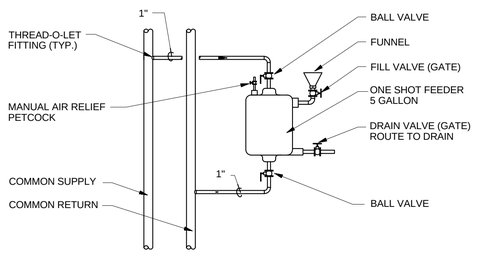
REFRIG. PIPING BELOW GRADE 19
No Scale



DETAIL FOR REFRIGERANT LINE HANGER 20
No Scale

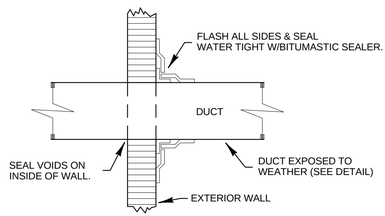


REFRIGERANT PIPING SCHEMATIC 21
No Scale

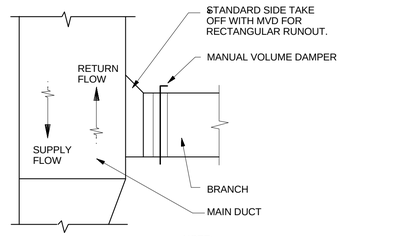


NOTE:
COORDINATE FINAL LOCATION WITH END USER AND CHEMICAL VENDOR.

ONE-SHOT FEEDER DETAIL 22
No Scale



DUCT THRU WALL DETAIL 23
No Scale



NOTE:
BALANCE CONTRACTOR MAY REQUIRE ADDITIONAL DAMPERS TO BE INSTALLED AT "NEAR COMPLETION OF PROJECT ". MECHANICAL CONTRACTOR SHALL CONSULT WITH BALANCE CONTRACTOR DURING CONSTRUCTION PHASE FOR THEIR RECOMMENDATIONS. COORDINATE WITH GENERAL CONTRACTOR TO ENSURE ACCESS DOORS AT HARD CEILING TO ACCESS DAMPERS WHERE NEEDED.

LOW PRESSURE RECTANGULAR BRANCH DUCT RUNOUT 24
No Scale

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR, I.C.THOMASSON (ICT) AND ASSOCIATES, INC. BASED ON THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF. THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

FINAL AS-BUILT DRAWINGS

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

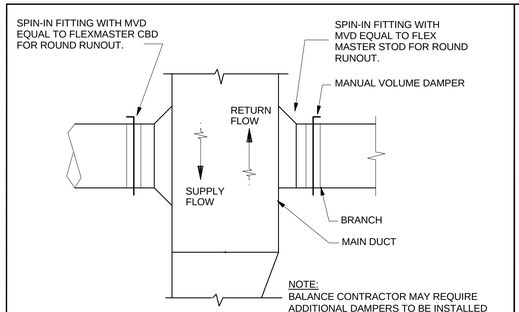
DESIGNED BY:	CHECKED BY:	ISSUE DATE:
ICT	ICT	JUNE 2013
DRAWN BY:	SOLICITATION NO.:	
ICT	W912HN-09-X-S107	
SUBMITTED BY:	CONTRACT NO.:	
ICT	W912HN-10-D-0049 T.O. 0007	
FILE NAME:	CATEGORY CODE:	
HVAC DETAILS	000	
SIZE:	PLOT SCALE:	PLOT DATE:
22" x 34"	3/32" = 1'-0"	5/1/2015 3:31:05 PM

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC.#AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
HVAC DETAILS

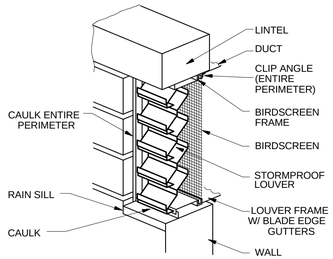
PLATE REFERENCE NUMBER
M-502
SHEET 224

74278- M-502-

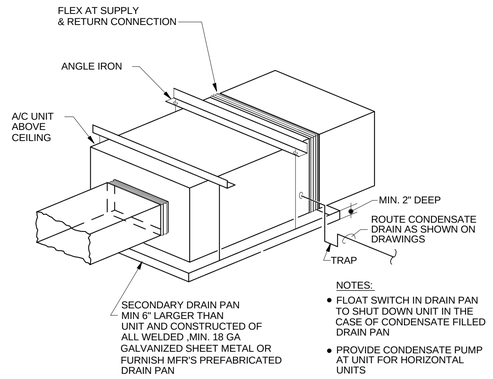


NOTE:
BALANCE CONTRACTOR MAY REQUIRE ADDITIONAL DAMPERS TO BE INSTALLED AT "NEAR COMPLETION OF PROJECT ". MECHANICAL CONTRACTOR SHALL CONSULT WITH BALANCE CONTRACTOR DURING CONSTRUCTION PHASE FOR THEIR RECOMMENDATIONS. COORDINATE WITH GENERAL CONTRACTOR TO ENSURE ACCESS DOORS AT HARD CEILING TO ACCESS DAMPERS WHERE NEEDED.

LOW PRESSURE ROUND BRANCH DUCT RUNOUT 25
No Scale

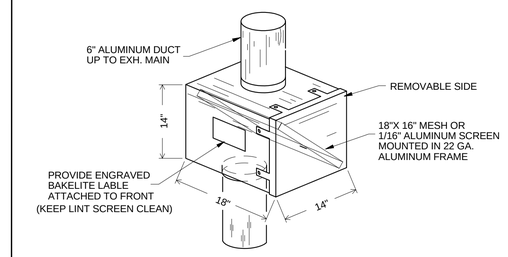


TYPICAL HVAC WALL LOUVER 26
No Scale



NOTES:
- FLOAT SWITCH IN DRAIN PAN TO SHUT DOWN UNIT IN THE CASE OF CONDENSATE FILLED DRAIN PAN
- PROVIDE CONDENSATE PUMP AT UNIT FOR HORIZONTAL UNITS

SECONDARY DRAIN PAN DETAIL 27
No Scale



NOTE:
FABRICATE AS SHOWN OR PROVIDE REVERSEOMATIC MODEL LT400SD LINT TRAP FOR STACKER DRYER.

DRYER BOX DETAIL 28
No Scale

TYPICAL INSTALLATION DETAILS

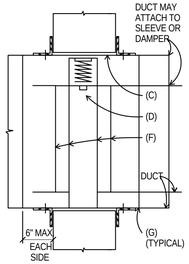
(A) RETAINING ANGLES:
MINIMUM 1-1/2" X 1-1/2" X 0.054 (16 GA.) RETAINING ANGLES MUST LAP STRUCTURAL OPENING 1" MINIMUM AND COVER CORNERS OF OPENINGS.
(B) CLEARANCE 1/8" PER LINEAR FOOT BOTH DIMENSIONS (SEE NOTE 1 BELOW)
(C) STEEL SLEEVE: GAUGE AS REQUIRED BY MANUFACTURER'S INSTRUCTIONS.
(D) APPROVED FIRE DAMPER (CURTAIN OR BLADE TYPE)
(E) SECURE RETAINING ANGLES TO SLEEVE ONLY, ON 8" CENTERS WITH:
1. 1/2" LONG WELDS, OR
2. 1/4" BOLTS AND NUTS, OR — PREFERRED
3. NO. 10 STEEL SCREWS, OR
4. MINIMUM 3/16" STEEL RIVETS
(F) SECURE DAMPER TO SLEEVE ON 8" CENTERS WITH:
1. 1/2" LONG WELDS, OR
2. 1/4" BOLTS AND NUTS IN HOLES PROVIDED, OR
3. NO. 10 STEEL SCREWS, OR
4. MINIMUM 3/16" STEEL RIVETS
(G) CONNECT DUCT TO SLEEVE AS REQUIRED BY THE MANUFACTURER.
(H) INSTALL ACCESS DOOR OR PANEL FOR SERVICE AND INSPECTION. DOOR MUST BE LARGE ENOUGH TO CHANGE LINK.

NOTES:
1. FIRE DAMPER SLEEVE CLEARANCE WITHIN WALL OPENING.
CLEARANCE REQUIREMENTS FOR DAMPER SLEEVES WITHIN A WALL OPENING IS BASED ON 3/8 INCH PER FOOT OF WIDTH (OR HEIGHT) UNLESS OTHERWISE STATED IN THE LISTING OF THE ASSEMBLY. THE SLEEVE MAY REST ON THE BOTTOM OF THE OPENING, AND NEED NOT BE CENTERED. (FRACTIONAL DIMENSIONS SHALL BE TAKEN AS THE NEXT LARGEST WHOLE FOOT.)
EXAMPLE: A 30 INCH X 24 INCH FIRE DAMPER SLEEVE IS INSTALLED IN A WALL OPENING. THE OPENING SHALL BE 30 3/8 INCHES WIDE (1/8 INCH X 3 FEET) BY 24 1/4 INCHES HIGH (1/8 INCH X 2 FEET.)
THE SLEEVE IS RETAINED IN THE WALL OPENING BY THE USE OF STEEL RETAINING ANGLES (A). THESE MUST OVER-LAP THE EDGE OF THE FRAMING BY A MINIMUM OF ONE (1) INCH OVER AND BEYOND ALL MATERIAL IN THE OPENING. THIS MEANS THAT THE MINIMUM WIDTH OF THE RETAINING ANGLE WOULD BE 1 3/8 INCHES (GOOD PRACTICE CALLS FOR AN ADDITIONAL SAFETY FACTOR BY MAKING THE ANGLE IN THIS CASE 1 1/2 INCHES WIDE.)
THE DIMENSIONS REQUIRED FOR THE OPENING SHALL BE THOSE REMAINING AFTER THE OPENING HAS BEEN FRAMED AND FIRE RESISTIVE MATERIALS PROVIDED WHERE REQUIRED. THE FIRE RESISTIVE MATERIALS SHALL BE EQUAL TO THE REQUIREMENTS FOR FIRE RESISTIVE MATERIALS USED IN THE CONSTRUCTED WALL SO THAT A CONTINUOUS RATING EXISTS AT THE WALL PENETRATION.

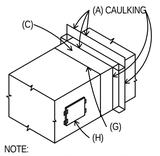
MANUFACTURERS' INSTALLATION DETAILS

THE FIRE DAMPER MANUFACTURERS' INSTALLATION DETAILS AND INSTRUCTIONS AS TESTED AND APPROVED BY U.L. MUST BE USED IN LIEU OF THE ABOVE DETAILS WHERE APPLICABLE.

NOTE: NO CAULKING IS REQUIRED ON FIRE DAMPERS OR FIRE DAMPER RETAINING ANGLES.



VERTICAL POSITION IS SHOWN, HORIZONTAL INSTALLATION IS SIMILAR.
FOLLOW INSTALLATION INSTRUCTION FOR FUSIBLE LINKS. LINKS TO BE 165° F.



NOTE:
A DUCT MOUNTED SMOKE DETECTOR SHALL BE INSTALLED IN THE DUCTWORK WITHIN FIVE FEET OF A COMBINATION FIRE/SMOKE DAMPER. SMOKE DETECTOR TO BE PROVIDED BY ELECTRICAL CONTRACTOR INSTALLED BY MECHANICAL CONTRACTOR.

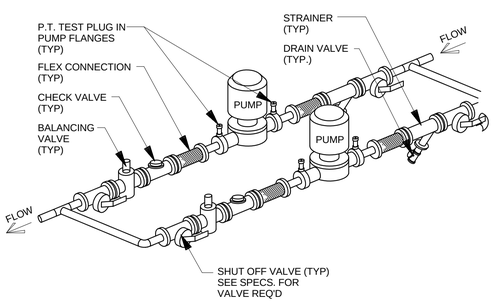
PROVIDE A COPY OF THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AT THE AHCA INSPECTION.

FIRE & FIRE/SMOKE DAMPERS 29
No Scale

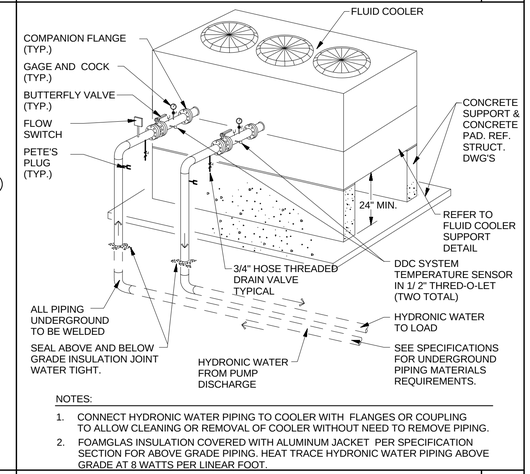


NOTES :
1. DUCT TO DAMPER SLEEVE CONNECTIONS SHALL BE BREAKAWAY STYLE. DUCTS CONNECTING TO SLEEVES SHALL BE AT LEAST EQUAL TO THE DUCTGAGES OUTLINED IN NFPA90A.
2. GRILLE IS TO BE SCREWED TO 1" x 1" x 20" GAGE ANGE ANGLES 3/4" PROVIDED WITH DAMPER. (DO NOT SCREEN GRILLE TO WALL)
3. DAMPER TO BE INSTALLED PER MANUFACTURERS INSTALLATION .

SLEEVE FIRE DAMPER FOR GRILLES 30
No Scale



CEILING HUNG DUPLEX IN-LINE PUMP DETAIL 31
No Scale

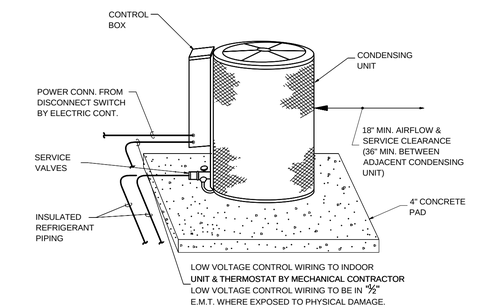


NOTES:
1. CONNECT HYDRONIC WATER PIPING TO COOLER WITH FLANGES OR COUPLING TO ALLOW CLEANING OR REMOVAL OF COOLER WITHOUT NEED TO REMOVE PIPING.
2. FOAMGLAS INSULATION COVERED WITH ALUMINUM JACKET PER SPECIFICATION SECTION FOR ABOVE GRADE PIPING. HEAT TRACE HYDRONIC WATER PIPING ABOVE GRADE AT 8 WATTS PER LINEAR FOOT.

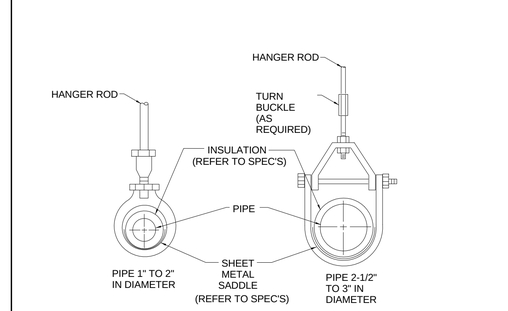
FLUID COOLER ON GRADE 32
No Scale

BOLTS THRU FRAME, ISOLATION MATERIAL AND BEAM FLANGE SHALL REMAIN LOOSE SO AS NOT TO PRE-DEPRESS ISOLATION MATERIAL. LOCK NUTS SHALL BE POSITIONED AND SET TO ALLOW 1/8" CLEARANCE BELOW BEAM FLANGE.

FLUID COOLER SUPPORT 33
No Scale



CONDENSING UNIT DETAIL 34
No Scale



PIPE HANGER DETAIL 35
No Scale

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION AS PERFORMED BY THE CONTRACTOR. ICT DOES NOT WARRANT THE COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

FINAL AS-BUILT DRAWINGS

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

ISSUE DATE: JUNE 2013
DESIGNED BY: ICT | DRAWN BY: ICT | CHECKED BY: ICT
SUBMITTED BY: ICT
SOLICITATION NO.: W912HN-09-X-S107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
FILE NAME: 74278-M-503.dgn
SIZE: 22" x 34" | PLOT SCALE: 3/32" = 1'-0" | PLOT DATE: 5/1/2015 3:31:06 PM

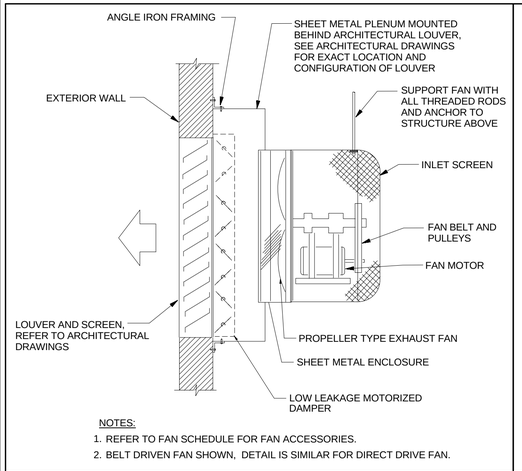
US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
HVAC DETAILS

PLATE REFERENCE NUMBER
M-503
SHEET 225

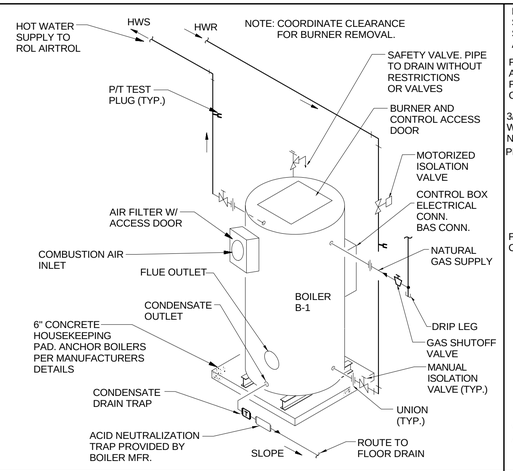
74278- M-503-



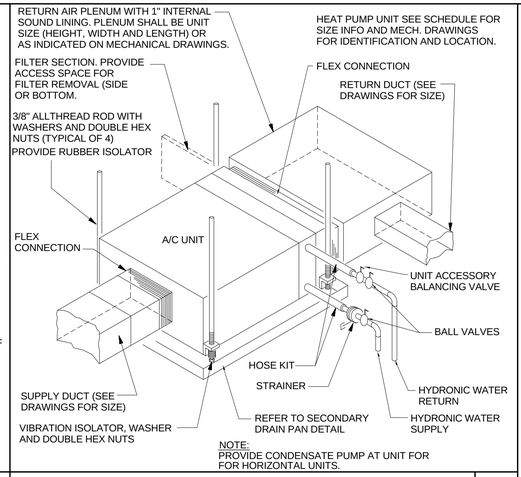
NOTES:

1. REFER TO FAN SCHEDULE FOR FAN ACCESSORIES.
2. BELT DRIVEN FAN SHOWN, DETAIL IS SIMILAR FOR DIRECT DRIVE FAN.

WALL MOUNTED PROPELLER FAN WITH LOUVER — 36
No Scale

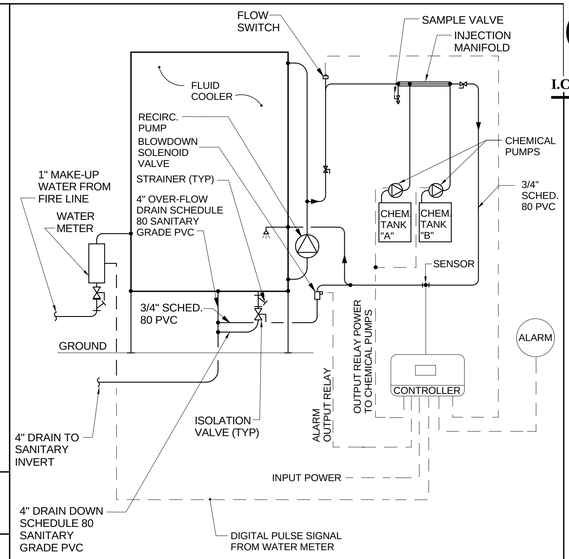


CONDENSING BOILER PIPING CONNECTIONS — 37
No Scale



NOTE:
PROVIDE CONDENSATE PUMP AT UNIT FOR FOR HORIZONTAL UNITS.

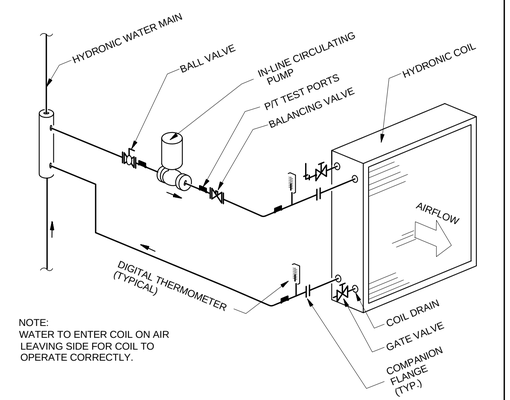
WATER SOURCE HEAT PUMP ABOVE CEILING — 38
No Scale



NOTES:

1. CHEMICAL TANKS AND CONTROLLER TO BE INCASED IN HIGH DENSITY PLASTIC CABINET TO PROTECT FROM SUN LIGHT. CHEMICAL TREATMENT SPECIALIST TO RECOMMEND APPROPRIATE SIZE CABINET FOR INSTALLATION.
2. CONTROLLER TO BE PROVIDED WITH 120 VAC POWERED CONNECTION. 24V TRANSFORMER ALSO TO BE INCLUDED FOR LOW VOLTAGE APPLICATIONS.
3. BLOWDOWN FROM CHEMICAL TREATMENT LOOP TO BE TIED INTO DRAIN PIPE.
4. MAKE-UP WATER PIPING ABOVE GROUND SHALL BE HEAT TRACED AND HAVE A REDUCED PRESSURE BACKFLOW PREVENTOR INSTALLED. REFER TO PLUMBING DRAWINGS.

FLUID COOLER CHEMICAL TREATMENT AND DRAIN DOWN SCHEMATIC — 39
No Scale



NOTE:
WATER TO ENTER COIL ON AIR LEAVING SIDE FOR COIL TO OPERATE CORRECTLY.

HYDRONIC WATER COIL PIPING — 40
No Scale

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

FINAL AS-BUILT DRAWINGS

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: ICT
DRAWN BY: ICT
CHECKED BY: ICT
SUBMITTED BY: ICT
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D-0049 T.O. 0007
CATEGORY CODE:
FILE NAME: M-504 HVAC DETAILS
SIZE: 22" x 34"
PLOT SCALE: 3/32" = 1'-0"
PLOT DATE: 5/1/2015 3:31:07 PM

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
HVAC DETAILS

PLATE REFERENCE NUMBER
M-504
SHEET 226

74278- M-504-

WATER SOURCE HEAT PUMP SCHEDULE

TAG	LOCATION	MANUFACTURER AND MODEL NUMBER	TYPE	SUPPLY (CFM)	USAGE	LOAD (BTU/H)	SENSIBLE LOAD (BTU/H)	ENTERING/LEAVING TEMP. DB/WB (°F)	MBH	MCA	MOCP	VOLT/PH/HZ	REMARKS
WSHP-0-1	STORAGE 003	CLIMATEMASTER TRH024AFD30ELTS	HORIZONTAL	500	HEATING	10,900	10,900	68/42.4 68/53.1	14.3000	17.5000	30.0000	208/1/60	1,2,3,4,5,6
					COOLING	29,800	14,900	74.9/62.5 74.9/65.2					
WSHP-1-1	ROP PLATOON OFFICE 120	CLIMATEMASTER TCH009-G	HORIZONTAL	425	HEATING	8,500	8,500	68/42.4 68/53.1	5.4000	6.5000	15.0000	208/1/60	1,2,3,5
					COOLING	9,600	7,700	74.9/62.5 74.9/65.2					
WSHP-1-2	TA-50 LOCKERS 1218	CLIMATEMASTER TRH024AFD30ELTS	HORIZONTAL	735	HEATING	17,600	17,600	68/42.4 68/53.1	14.3000	17.5000	30.0000	208/1/60	1,2,3,4,5,6
					COOLING	21,300	17,000	74.9/62.5 74.9/65.2					
WSHP-1-3	PLATOON OFFICES 118	CLIMATEMASTER TCH012-G	HORIZONTAL	405	HEATING	11,600	11,600	68/42.4 68/53.1	6.0000	7.3000	15.0000	208/1/60	1,2,3,5
					COOLING	12,900	10,300	74.9/62.5 74.9/65.2					
WSHP-1-4	PLATOON OFFICES 118	CLIMATEMASTER TCV012-G	HORIZONTAL	500	HEATING	10,200	10,200	68/42.4 68/53.1	6.0000	7.3000	15.0000	208/1/60	1,2,3,5
					COOLING	12,100	9,700	74.9/62.5 74.9/48.1					
WSHP-1-5	MODULE 127	CLIMATEMASTER TCV006-G	VERTICAL	200	HEATING	3,400	3,400	68/42.4 68/53.1	3.7000	4.5000	15.0000	208/1/60	1,2,3
					COOLING	3,800	3,000	74.9/62.5 74.9/65.2					
WSHP-1-6	MODULE 129	CLIMATEMASTER TCV006-G	VERTICAL	200	HEATING	3,400	3,400	68/42.4 68/53.1	3.7000	4.5000	15.0000	208/1/60	1,2,3
					COOLING	3,800	3,000	74.9/62.5 74.9/65.2					
WSHP-1-7	MODULE 130	CLIMATEMASTER TCV006-G	VERTICAL	200	HEATING	3,400	3,400	68/42.4 68/53.1	3.7000	4.5000	15.0000	208/1/60	1,2,3
					COOLING	3,800	3,000	74.9/62.5 74.9/65.2					
WSHP-1-8	MODULE 132	CLIMATEMASTER TCV006-G	VERTICAL	200	HEATING	3,400	3,400	68/42.4 68/53.1	3.7000	4.5000	15.0000	208/1/60	1,2,3
					COOLING	3,800	3,000	74.9/62.5 74.9/65.2					
WSHP-1-9	MODULE 133	CLIMATEMASTER TCV006-G	VERTICAL	200	HEATING	3,400	3,400	68/42.4 68/53.1	3.7000	4.5000	15.0000	208/1/60	1,2,3
					COOLING	3,800	3,000	74.9/62.5 74.9/65.2					
WSHP-1-10	MODULE 135	CLIMATEMASTER TCV006-G	VERTICAL	200	HEATING	3,400	3,400	68/42.4 68/53.1	3.7000	4.5000	15.0000	208/1/60	1,2,3
					COOLING	3,800	3,000	74.9/62.5 74.9/65.2					
WSHP-1-11	MODULE 136	CLIMATEMASTER TCV006-G	VERTICAL	200	HEATING	3,400	3,400	68/42.4 68/53.1	3.7000	4.5000	15.0000	208/1/60	1,2,3
					COOLING	3,800	3,000	74.9/62.5 74.9/65.2					
WSHP-1-12	MODULE 138	CLIMATEMASTER TCV006-G	VERTICAL	200	HEATING	3,400	3,400	68/42.4 68/53.1	3.7000	4.5000	15.0000	208/1/60	1,2,3
					COOLING	3,800	3,000	74.9/62.5 74.9/65.2					
WSHP-1-13	TRAINING MECH 142	CLIMATEMASTER TRV018AGD30ELTS	VERTICAL	600	HEATING	11,500	11,500	68/42.4 68/53.1	8.4000	10.2000	15.0000	208/1/60	1,2,3,4,5,6
					COOLING	16,000	12,800	74.9/62.5 74.9/65.2					
WSHP-1-14	TRAINING MECH 142	CLIMATEMASTER TCV009-G	VERTICAL	300	HEATING	7,600	7,600	68/42.4 68/53.1	5.4000	6.5000	15.0000	208/1/60	1,2,3,5
					COOLING	9,300	7,400	74.9/62.5 74.9/65.2					
WSHP-1-15	STUDENT TRAINING 104	CLIMATEMASTER TCH048-G	HORIZONTAL	1,500	HEATING	155,800	155,800	68/42.4 68/53.1	25.2000	30.7000	15.0000	208/1/60	1,2,3,5
					COOLING	160,300	128,200	74.9/62.5 74.9/65.2					
WSHP-1-16	STUDENT TRAINING 104	CLIMATEMASTER TCH048-G	HORIZONTAL	1,500	HEATING	155,800	155,800	68/42.4 68/53.1	25.2000	30.7000	15.0000	208/1/60	1,2,3,5
					COOLING	160,300	128,200	74.9/62.5 74.9/65.2					
WSHP-1-17	STUDENT TRAINING 104	CLIMATEMASTER TCH048-G	HORIZONTAL	1,500	HEATING	155,800	155,800	68/42.4 68/53.1	25.2000	30.7000	15.0000	208/1/60	1,2,3,5
					COOLING	160,300	128,200	74.9/62.5 74.9/65.2					
WSHP-1-18	STUDENT TRAINING ROOM 107	CLIMATEMASTER TCH024-G	HORIZONTAL	550	HEATING	25,600	25,600	68/42.4 68/53.1	14.3000	17.5000	15.0000	208/1/60	1,2,3,5
					COOLING	27,800	22,200	74.9/62.5 74.9/65.2					
WSHP-1-19	CONFERENCE 106	CLIMATEMASTER TCH024-G	HORIZONTAL	550	HEATING	22,100	22,100	68/42.4 68/53.1	14.3000	17.5000	15.0000	208/1/60	1,2,3
					COOLING	24,100	19,300	74.9/62.5 74.9/65.2					
WSHP-1-20	ADMIN MECH 103	CLIMATEMASTER TCH012-G	HORIZONTAL	380	HEATING	10,600	10,600	68/42.4 68/53.1	6.0000	7.3000	15.0000	208/1/60	1,2,3,5
					COOLING	12,600	10,100	74.9/62.5 74.9/65.2					
WSHP-1-21	ADMIN TRAINING 111	CLIMATEMASTER TCH009-G	HORIZONTAL	200	HEATING	6,000	6,000	68/42.4 68/53.1	5.4000	6.5000	15.0000	208/1/60	1,2,3,5
					COOLING	7,000	5,600	74.9/62.5 74.9/65.2					
WSHP-2-1	STORAGE 203	CLIMATEMASTER TCV009-G	VERTICAL	175	HEATING	9,000	9,000	68/42.4 68/53.1	5.4000	6.5000	15.0000	208/1/60	1,2,3
					COOLING	8,900	7,100	74.9/62.5 74.9/65.2					
WSHP-2-2	MODULE 206	CLIMATEMASTER TCV006-G	VERTICAL	200	HEATING	3,400	3,400	68/42.4 68/53.1	3.7000	4.5000	15.0000	208/1/60	1,2,3
					COOLING	3,800	3,000	74.9/62.5 74.9/65.2					
WSHP-2-3	MODULE 208	CLIMATEMASTER TCV006-G	VERTICAL	200	HEATING	3,400	3,400	68/42.4 68/53.1	3.7000	4.5000	15.0000	208/1/60	1,2,3
					COOLING	3,800	3,000	74.9/62.5 74.9/65.2					
WSHP-2-4	MODULE 209	CLIMATEMASTER TCV006-G	VERTICAL	200	HEATING	3,400	3,400	68/42.4 68/53.1	3.7000	4.5000	15.0000	208/1/60	1,2,3
					COOLING	3,800	3,000	74.9/62.5 74.9/65.2					
WSHP-2-5	MODULE 211	CLIMATEMASTER TCV006-G	VERTICAL	200	HEATING	3,400	3,400	68/42.4 68/53.1	3.7000	4.5000	15.0000	208/1/60	1,2,3
					COOLING	3,800	3,000	74.9/62.5 74.9/65.2					
WSHP-2-6	MODULE 212	CLIMATEMASTER TCV006-G	VERTICAL	200	HEATING	3,400	3,400	68/42.4 68/53.1	3.7000	4.5000	15.0000	208/1/60	1,2,3
					COOLING	3,800	3,000	74.9/62.5 74.9/65.2					
WSHP-2-7	MODULE 214	CLIMATEMASTER TCV006-G	VERTICAL	200	HEATING	3,400	3,400	68/42.4 68/53.1	3.7000	4.5000	15.0000	208/1/60	1,2,3
					COOLING	3,800	3,000	74.9/62.5 74.9/65.2					
WSHP-2-8	MODULE 215	CLIMATEMASTER TCV006-G	VERTICAL	200	HEATING	3,400	3,400	68/42.4 68/53.1	3.7000	4.5000	15.0000	208/1/60	1,2,3
					COOLING	3,800	3,000	74.9/62.5 74.9/65.2					
WSHP-2-9	MODULE 217	CLIMATEMASTER TCV006-G	VERTICAL	200	HEATING	3,400	3,400	68/42.4 68/53.1	3.7000	4.5000	15.0000	208/1/60	1,2,3
					COOLING	3,800	3,000	74.9/62.5 74.9/65.2					
WSHP-2-10	MODULE 218	CLIMATEMASTER TCV006-G	VERTICAL	200	HEATING	3,400	3,400	68/42.4 68/53.1	3.7000	4.5000	15.0000	208/1/60	1,2,3
					COOLING	3,800	3,000	74.9/62.5 74.9/65.2					
WSHP-2-11	MODULE 220	CLIMATEMASTER TCV006-G	VERTICAL	200	HEATING	3,400	3,400	68/42.4 68/53.1	3.7000	4.5000	15.0000	208/1/60	1,2,3
					COOLING	3,800	3,000	74.9/62.5 74.9/65.2					
WSHP-2-12	MODULE 221	CLIMATEMASTER TCV006-G	VERTICAL	200	HEATING	3,400	3,400	68/42.4 68/53.1	3.7000	4.5000	15.0000	208/1/60	1,2,3
					COOLING	3,800	3,000	74.9/62.5 74.9/65.2					
WSHP-2-13	MODULE 223	CLIMATEMASTER TCV006-G	VERTICAL	200	HEATING	3,400	3,400	68/42.4 68/53.1	3.7000	4.5000	15.0000	208/1/60	1,2,3
					COOLING	3,800	3,000	74.9/62.5 74.9/65.2					
WSHP-2-14	MODULE 224	CLIMATEMASTER TCV006-G	VERTICAL	200	HEATING	3,400	3,400	68/42.4 68/53.1	3.7000	4.5000	15.0000	208/1/60	1,2,3
					COOLING	3,800	3,000	74.9/62.5 74.9/65.2					
WSHP-2-15	MODULE 226	CLIMATEMASTER TCV006-G	VERTICAL	200	HEATING	3,400	3,400	68/42.4 68/53.1	3.7000	4.5000	15.0000	208/1/60	1,2,3
					COOLING	3,800	3,000	74.9/62.5 74.9/65.2					
WSHP-2-16	MODULE 227	CLIMATEMASTER TCV006-G	VERTICAL	200	HEATING	3,400	3,400	68/42.4 68/53.1	3.7000	4.5000	15.0000	208/1/60	1,2,3
					COOLING	3,800	3,000	74.9/62.5 74.9/65.2					
WSHP-2-17	MODULE 229	CLIMATEMASTER TCV006-G	VERTICAL	200	HEATING	3,400	3,400	68/42.4 68/53.1	3.7000	4.5000	15.0000	208/1/60	1,2,3
					COOLING	3,800	3,000	74.9/62.5 74.9/65.2					
WSHP-2-18	MODULE 230	CLIMATEMASTER TCV006-G	VERTICAL	200	HEATING	3,400	3,400	68/42.4 68/53.1	3.7000	4.5000	15.0000	208/1/60	1,2,3
					COOLING	3,800	3,000	74.9/62.5 74.9/65.2					
WSHP-2-19	MODULE 232	CLIMATEMASTER TCV006-G	VERTICAL	200	HEATING	3,400	3,400	68/42.4 68/53.1	3.7000	4.5000	15.0000	208/1/60	1,2,3
					COOLING	3,800	3,000	74.9/62.5 74.9/65.2					
WSHP-3-1	SHOWER 303	CLIMATEMASTER TRH018AGD30ELTS	HORIZONTAL	450	HEATING	17,000	17,000	68/42.4 68/53.1	8.2000	10.0000	15.0000	208/1/60	1,2,3,4,5,6
					COOLING	17,300	17,300	74.9/62.5 74.9/65.2					
WSHP-3-2	SLEEPING 306	CLIMATEMASTER TCH042-G	HORIZONTAL	1,500	HEATING	124,300	124,300	68/42.4 68/53.1	20.9000	25.4000	40.0000	208/1/60	1,2,3,5
					COOLING	136,300	109,000	74.9/62.5 74.9/65.2					
WSHP-3-3	SLEEPING 306	CLIMATEMASTER TCH042-G	HORIZONTAL	1,500	HEATING	124,300	124,300	68/42.4 68/53.1	20.9000	25.4000	40.0000	208/1/60	1,2,3,5
					COOLING	136,600	109,300	74.9/62.5 74.9/65.2					
WSHP-3-4	SLEEPING 306	CLIMATEMASTER TCH042-G	HORIZONTAL	1,500	HEATING	3,400	3,400	68/42.4 68/53.1	20.9000	25.4000	40.0000	208/1/60	1,2,3,5
					COOLING	3,800	3,000	74.9/62.5 74.9/65.2					

REMARKS

1. PROVIDE VIBRATIONS ISOLATIONS
2. BAS INTERFACE
3. RECIRCULATION PUMP
4. HOT GAS REHEAT
5. CONDENSATE PUMP
6. SPACE HUMIDITY SENSOR

PUMP SCHEDULE

TAG	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	FLUID			ELECTRICAL			REMARKS
				FLOW		HEAD	MOTOR	MOTOR		
				RATE	WORKING	LOSS	SIZE	SPEED		
				(GPM)	FLUID	(FT)	(HP)	(RPM)	VOLT/PH/HZ	
BP-1	TACO 1935	MECH 001	VERTICAL INLINE	48.0000	WATER	28.8	3	0	120/1/60	1,4,6
FCRP-1	TACO KV3006	MECH 001	VERTICAL INLINE	170.0000	WATER	14	1	1760	208/3/60	1,4,6
P-DOAU-1	TACO L1034	DOAU-1	CIRCULATOR	25.9	WATER	10.1	0.163	3250	120/1/60	7.0000
P-DOAU-2	TACO L1034	DOAU-2	CIRCULATOR	25.9	WATER	10.1	0.163	3250	120/1/60	7.0000
P-WSHP-0-1	TACO L0410	WSHP-0-1	CIRCULATOR	2.3	WATER	7.2	0.025	3250	120/1/60	7.0000
P-WSHP-1-1	TACO L0410	WSHP-1-1	CIRCULATOR	1.5	WATER	6.5	0.025	3250	120/1/60	7.0000
P-WSHP-1-2	TACO L0515	WSHP-1-2	CIRCULATOR	4.5	WATER	7.4	0.04	3250	120/1/60	7.0000
P-WSHP-1-3	TACO L0410	WSHP-1-3	CIRCULATOR	2.3	WATER	7.2	0.025	3250	120/1/60	7.0000
P-WSHP-1-4	TACO L0410	WSHP-1-4	CIRCULATOR	2.3	WATER	7.2	0.025	3250	120/1/60	7.0000
P-WSHP-1-5	TACO L0410	WSHP-1-5	CIRCULATOR	1.1	WATER	5.7	0.025	3250	120/1/60	7.0000
P-WSHP-1-6	TACO L0410	WSHP-1-6	CIRCULATOR	1.1	WATER	5.7	0.025	3250	120/1/60	7.0000
P-WSHP-1-7	TACO L0410	WSHP-1-7	CIRCULATOR	1.1	WATER	5.7	0.025	3250	120/1/60	7.0000
P-WSHP-1-8	TACO L0410	WSHP-1-8	CIRCULATOR	1.1	WATER	5.7	0.025	3250	120/1/60	7.0000
P-WSHP-1-9	TACO L0410	WSHP-1-9	CIRCULATOR	1.1	WATER	5.7	0.025	3250	120/1/60	7.0000
P-WSHP-1-10	TACO L0410	WSHP-1-10	CIRCULATOR	1.1	WATER	5.7	0.025	3250	120/1/60	7.0000
P-WSHP-1-11	TACO L0410	WSHP-1-11	CIRCULATOR	1.1	WATER	5.7	0.025	3250	120/1/60	7.0000
P-WSHP-1-12	TACO L0410	WSHP-1-12	CIRCULATOR	1.1	WATER	5.7	0.025	3250	120/1/60	7.0000
P-WSHP-1-13	TACO L0710	WSHP-1-13	CIRCULATOR	2.4	WATER	7.4	0.04	3250	120/1/60	7.0000
P-WSHP-1-14	TACO L0410	WSHP-1-14	CIRCULATOR	1.5	WATER	6.5	0.025	3250	120/1/60	7.0000
P-WSHP-1-15	TACO VR15@23FT	WSHP-1-15	CIRCULATOR	54.1	WATER	20.1	0.68	3450	120/1/60	7.0000
P-WSHP-1-16	TACO VR15@23FT	WSHP-1-16	CIRCULATOR	54.1	WATER	20.1	0.68	3450	120/1/60	7.0000
P-WSHP-1-17	TACO VR15@23FT	WSHP-1-17	CIRCULATOR	54.1	WATER	20.1	0.68	3450	120/1/60	7.0000
P-WSHP-1-18	TACO L0515	WSHP-1-18	CIRCULATOR	4.5	WATER	7.4	0.04	3250	120/1/60	7.0000
P-WSHP-1-19	TACO L0515	WSHP-1-19	CIRCULATOR	4.5	WATER	7.4	0.04	3250	120/1/60	7.0000
P-WSHP-1-20	TACO L0410	WSHP-1-20	CIRCULATOR	2.3	WATER	7.2	0.025	3250	120/1/60	7.0000
P-WSHP-1-21	TACO L0410	WSHP-1-21	CIRCULATOR	1.1	WATER	5.7	0.025	3250	120/1/60	7.0000
P-WSHP-2-1	TACO L0410	WSHP-2-1	CIRCULATOR	1.5	WATER	6.5	0.025	3250	120/1/60	7.0000
P-WSHP-2-2	TACO L0410	WSHP-2-2	CIRCULATOR	1.1	WATER	5.7	0.025	3250	120/1/60	7.0000
P-WSHP-2-3	TACO L0410	WSHP-2-3	CIRCULATOR	1.1	WATER	5.7	0.025	3250	120/1/60	7.0000
P-WSHP-2-4	TACO L0410	WSHP-2-4	CIRCULATOR	1.1	WATER	5.7	0.025	3250	120/1/60	7.0000
P-WSHP-2-5	TACO L0410	WSHP-2-5	CIRCULATOR	1.1	WATER	5.7	0.025	3250	120/1/60	7.0000
P-WSHP-2-6	TACO L0410	WSHP-2-6	CIRCULATOR	1.1	WATER	5.7	0.025	3250	120/1/60	7.0000
P-WSHP-2-7	TACO L0410	WSHP-2-7	CIRCULATOR	1.1	WATER	5.7	0.025	3250	120/1/60	7.0000
P-WSHP-2-8	TACO L0410	WSHP-2-8	CIRCULATOR	1.1	WATER	5.7	0.025	3250	120/1/60	7.0000
P-WSHP-2-9	TACO L0410	WSHP-2-9	CIRCULATOR	1.1	WATER	5.7	0.025	3250	120/1/60	7.0000
P-WSHP-2-10	TACO L0410	WSHP-2-10	CIRCULATOR	1.1	WATER	5.7	0.025	3250	120/1/60	7.0000
P-WSHP-2-11	TACO L0410	WSHP-2-11	CIRCULATOR	1.1	WATER	5.7	0.025	3250	120/1/60	7.0000
P-WSHP-2-12	TACO L0410	WSHP-2-12	CIRCULATOR	1.1	WATER	5.7	0.025	3250	120/1/60	7.0000
P-WSHP-2-13	TACO L0410	WSHP-2-13	CIRCULATOR	1.1	WATER	5.7	0.025	3250	120/1/60	7.0000
P-WSHP-2-14	TACO L0410	WSHP-2-14	CIRCULATOR	1.1	WATER	5.7	0.025	3250	120/1/60	7.0000
P-WSHP-2-15	TACO L0410	WSHP-2-15	CIRCULATOR	1.1	WATER	5.7	0.025	3250	120/1/60	7.0000
P-WSHP-2-16	TACO L0410	WSHP-2-16	CIRCULATOR	1.1	WATER	5.7	0.025	3250	120/1/60	7.0000
P-WSHP-2-17	TACO L0410	WSHP-2-17	CIRCULATOR	1.1	WATER	5.7	0.025	3250	120/1/60	7.0000
P-WSHP-2-18	TACO L0410	WSHP-2-18	CIRCULATOR	1.1	WATER	5.7	0.025	3250	120/1/60	7.0000
P-WSHP-2-19	TACO L0410	WSHP-2-19	CIRCULATOR	1.1	WATER	5.7	0.025	3250	120/1/60	7.0000
P-WSHP-3-1	TACO L0410	WSHP-3-1	CIRCULATOR	1.4	WATER	6.4	0.025	3250	120/1/60	7.0000
P-WSHP-3-3	TACO VR15@23FT	WSHP-3-3	CIRCULATOR	46	WATER	20.1	0.68	3450	120/1/60	7.0000
P-WSHP-3-4	TACO VR15@23FT	WSHP-3-4	CIRCULATOR	46.1	WATER	20.1	0.68	3450	120/1/60	7.0000
P-WSHP-3-5	TACO L0410	WSHP-3-5	CIRCULATOR	1.1	WATER	5.7	0.025	3250	120/1/60	7.0000
HWP-1	TACO KV3007	MECH 001	VERTICAL INLINE	170.0000	WATER	51.7	3	1760	208/3/60	1,2,3,4,5,6
HWP-2	TACO KV 3007	MECH 001	VERTICAL INLINE	170.0000	WATER	51.7	3	1760.0000	208/3/60	1,2,3,4,5,6

REMARKS

1. AEGIS GROUNDING RING
2. EXPANSION TANK
3. AIR SEPARATOR
4. DDC CONTROL INTERFACE
5. CHEMICAL TREATMENT, CONTROL VALVES, PRESSURE GAUGES, & SUCTION DIFFUSERS.
6. PRESSURE SENSOR DOWNSTREAM CONDENSOR LOOP CONTROLING VFD.
7. CIRCULATOR PUMP SHALL GET POWER FROM ASSOCIATED WSHP

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

FINAL AS-BUILT DRAWINGS

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: ICT
DRAWN BY: ICT
SUBMITTED BY: ICT
FILE NAME: HEATING PLAN
SIZE: 22" x 34"

ISSUE DATE: JUNE 2013
CHECKED BY: ICT
SOLICITATION NO.: W912HN-09-X-S107
CONTRACT NO. W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
PLOT DATE: 5/1/2015 3:31:08 PM
PLOT SCALE: 3/32" = 1'-0"

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC.# AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
HVAC SCHEDULES
- -

PLATE REFERENCE NUMBER
M-601
SHEET 227

74278- M-601-

CLOSED CIRCUIT FLUID COOLER SCHEDULE

TAGS	FC-1	
LOCATION	MECHANICAL YARD	
MANUFACTURER	MARLEY	
MODEL NO.	MHF702B082G-1	
CAPACITY (MBH)	108.7	
AMBIENT TEMP. DB/WB (°F)	95/78.5	
GPM	167.9	
EWT	97	
LWT	84	
PRESSURE DROP (PSI)	0.07	
EVAPORATED WATER (GPM)	2.9	
BASIN HEATER (KW)	--	
# FAN MOTORS @ HP	(2) @ 7.50	
# PUMP MOTORS @ HP	(1) @ 3.00	
ELECTRICAL		
VOLTAGE/PHASE	208/3	
UNIT MCA	--	
UNIT MOCP	--	
DIMENSION LxWxH (FT)	9.1x8.45x17	
OPERATING WEIGHT (LBS)	13,660	
REMARKS	1,2,3,4,5	
REMARKS:		
1. NEMA 4 STARTER/CONTROL PANEL.		
2. DDC CONTROL INTERFACE.		
3. 36" TALL PREFABRICATED STEEL SUPPORT FRAMING		
4. CHEMICAL TREATMENT		
5. INVERTER DUTY PREMIUM EFFICIENT MOTORS		

ELECTRIC UNIT HEATER SCHEDULE

TAG:	UH-0-1	UH-0-2	UH-0-3	UH-1-1	UH-1-2	UH-1-3	UH-1-4
SERVICE	STAIRS	ELEC 002	MECH 001	SUPPLY 144	STORAGE 143	STAIRS	STAIRS
MANUFACTURER	TRANE	REZNOR	REZNOR	REZNOR	REZNOR	TRANE	TRANE
TYPE	CEILING HORIZONTAL	CEILING HUNG	CEILING HUNG	CEILING HUNG	CEILING HUNG	CEILING HORIZONTAL	CEILING HORIZONTAL
MODEL	UHCA 70	EGEB	EGEB	EGEB	EGEB	UHCA 70	UHCA 70
SUPPLY CFM	200	310	310	625	625	200	200
HEAT CAPACITY (KW)	5.0	5.0	5.0	7.5	7.5	5.0	5.0
CONTROL	T-STAT/NIGHT RELAY	T-STAT/NIGHT RELAY	T-STAT/NIGHT RELAY	T-STAT/NIGHT RELAY	T-STAT/NIGHT RELAY	T-STAT/NIGHT RELAY	T-STAT/NIGHT RELAY
ELECTRICAL							
VOLTAGE	208/3	208/1	208/1	208/1	208/1	208/3	208/3
UNIT DIMENSIONS (LxWxH)	17"x17"x9"	16"x22"x25"	16"x22"x25"	16"x22"x25"	16"x22"x25"	17"x17"x9"	17"x17"x9"
DISCONNECT/STARTER	NONE	DISCONNECT	DISCONNECT	DISCONNECT	DISCONNECT	NONE	NONE
REMARKS	1,2	1,2	1,2	1,2	1,2	1,2	1,2
REMARKS							
1. INTEGRAL THERMOSTAT W/ DDC CONTROLS							
2. RECESSED MOUNTING FRAME/BRACKET							

BOILER SCHEDULE

TAG	B-1
TYPE	GAS FIRED CONDENSING
OUTPUT (BTU/HR)	724,500
INPUT (BTU/HR)	750,000
WATER PRESSURE DROP (FT.)	1.0
MAX WORKING PRESSURE (PSI)	150.0
FUEL	NATURAL GAS
ELECTRICAL VOLTAGE/PHASE	120/1
ELECTRICAL FUSE SIZE (A)	20.0
ELECTRICAL FLA (A)	15.0
TYPE OF CONTROL	FULLY MODULATING
OPAERATING RANGE	7:1
REMARKS: BASED ON RIVERSIDE HYDRONIC CENTAURI PLUS 750 WB 125 A-IFC	
1. DIRECT EXHAUST TO THE OUTDOORS	
2. DIRECT AIR INTAKE VENTING TO THE OUTDOORS	
3. TOUCH SCREEN CONTROL PANEL	
4. 0-10 VDC BMS EXTERNAL CONTROL PANEL	
5. ONTRAC C4 W/ LONWORKS INTERFACE	
6. 50 PSI RELIEF VALVE	
7. NATURAL GAS PRV	
8. REGULATOR SHALL BE MIN OF 7' FROM EQUIP.	
9. REGULATOR SHALL HAVE OVER PRESSURE PROTECTION & INTERNAL RELIEF.	
10. PROVIDE FULL SIZE VENT LINE FROM REGULATOR RELIEF TO OUTSIDE.	
11. BOILER SHALL HAVE INTERNAL LOW WATER SHUT-OFF.	

FAN SCHEDULE

TAG	VF-0-1	VF-0-2	VF-1-1	VF-1-2
SERVICE	MECH ROOM	ELECT ROOM	STORAGE	STORAGE
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	GREENHECK
TYPE	SIDEWALL	SIDEWALL	SIDEWALL	SIDEWALL
SIZE/MODEL	SE1-12-426-VG	SE1-12-426-VG	SE1-14-432-A4	SE1-14-432-A4
CFM	1,000	1,000	2,000	2,000
SP (IN W.C.)	0.25	0.25	0.25	0.25
MAX. FAN RPM	1725	1725	1725	1725
DRIVE TYPE	DIRECT	DIRECT	DIRECT	DIRECT
APPROX. SIZE (WxLxH)	18"x18"x12"	18"x18"x12"	20"x20"x12"	20"x20"x12"
MAX. MOTOR HP	1/4	1/4	1/4	1/4
ELECTRICAL				
VOLTAGE/PHASE	115/1	115/1	208/3	208/3
FLA	3.9	3.9	2.4	2.4
INLET SCREEN	YES	YES	YES	YES
OUTLET SCREEN	YES	YES	YES	YES
INLET DAMPER	NO	NO	NO	NO
OUTLET DAMPER/BACKDRAFT	YES	YES	YES	YES
DISCONNECT/STARTER	DISCONNECT	DISCONNECT	DISCONNECT	DISCONNECT
REMARKS	1,2,3,4	1,2,3,4	1,2,3,4	1,2,3,4
REMARKS:				
1. VIBRATION ISOLATION				
2. THERMOSTAT				
3. BAS INTERFACE				
4. LOW LEAKAGE MOTORIZED DAMPER INTERLOCK WITH EF.				

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

FINAL AS-BUILT DRAWINGS

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK | DESCRIPTION | DATE | APPR.

DESIGNED BY: ICT
DRAWN BY: ICT
CHECKED BY: ICT
SUBMITTED BY: ICT
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D-0041 T.O. 0007
CATEGORY CODE:
FILE NAME: M-602.DGN
PLOT DATE: 5/1/2015 3:31:09 PM
SIZE: 22" x 34"
PLOT SCALE: 3/32" = 1'-0"

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
HVAC SCHEDULES

PLATE REFERENCE NUMBER
M-602
SHEET 228

74278- M-602-

100% OUTSIDE AIR/ENERGY RECLAIM UNIT SCHEDULE

TAGS	DOAU-1	DOAU-2
SERVICE	OUTSIDE AIR UNIT	OUTSIDE AIR UNIT
LOCATION	ATTIC	ATTIC
MANUFACTURER	AAON	AAON
MODEL NO.	RN-013	RN-015
OUTSIDE AIR FAN		
MAX. OUTDOOR AIR CFM	2090	2975
SUPPLY E.S.P. (IN W.C.)	1.5	1.5
SUPPLY HP	5	5
EXHAUST AIR FAN		
MAX. EXHAUST AIR CFM	1815	2495
EXHAUST E.S.P. (IN W.C.)	1	1
EXHAUST HP	2	3
COOLING/DEHUMIDIFIACTION MODE		
TYPE	ENTHALPY	ENTHALPY
EAT (DB/WB)	95/78	95/78
SYSTEM TOTAL CAPACITY (MBH)	88.2	90.53
SYSTEM SENSIBLE CAPACITY (MBH)	33.78	35.01
WHEEL EAT (DB/WB)	95/78	95/78
WHEEL LAT (DB/WB)	82.79/69.6	84.46 / 70.91
D/X COIL TOTAL CAPACITY (MBH)	142.88	177.25
D/X COIL SENSIBLE CAPACITY (MBH)	85.88	104.45
LEAVING AIR DEWPOINT (°F)	49.81	50.85
COMPRESSOR COUNT	2	2
COOLING (EWT/LWT)	86.8 / 96	89 / 99.1
HEAT PUMP MODE		
WHEEL EAT (DB/WB)	18 / 15	20 / 19
WHEEL LAT (DB/WB)	53.68 / 47.10	49 / 44.33
SYSTEM TOTAL HEATING - WHEEL + D/X (MBH)	273	316.2
D/X HEATING CAPACITY (MBH)	176.6	221.8
HEATING EWT/LWT	60 / 52.68	60 / 52
COP @ DESIGN	5.57	5.12
WATER DATA		
FLOW RATE (GPM)	39	44
PRESSURE DROP (PSI)	9.69	12.04
ELECTRICAL		
VOLTAGE/PHASE	208/3	208/3
UNIT MCA	73	83
UNIT MOCP	90	100
UNIT DIMENSIONS (LxWxH) INCHES	129"x73"x50"	129"x73"x50"
UNIT WEIGHT (LBS)	2424	2440
SMOKE DETECTOR (SUPPLY/EXHAUST)	YES	YES
UNIT SECTIONS	A,B,C,D,E	A,B,C,D,E
REMARKS	1-8	1-8

REMARKS:	
1.	UNIT TO INCLUDE FACTORY MOUNTED NON-FUSED DISCONNECT.
2.	ZONE RESET OF SUPPLY AIR (LAT) WITH UNOCCUPIED TEMPERATURE AND
	HUMIDITY CONTROL, WITH LON Interface.
3.	UNIT TO HAVE DOUBLE WALL CABINET CONSTRUCTION.
4.	UNIT TO HAVE SINGLE SIDE ACCESS ON LEFT SIDE.
5.	UNIT TO HAVE A MINIMUM OF 8" BETWEEN EVAPORATOR AND HOT GAS REHEAT
	COIL TO PREVENT MOISTURE CARRY OVER.
6.	MERV-13 FILTER
7.	AIR MONITORING ARRAY STATION IN O.A. INTAKE TO BE CONNECTED TO B.A.S.
	AND TO CONTROL LOW LEAKAGE MOTORIZED DAMPER.
8.	LONTalk CONTROL INTERFACE

UNIT SECTIONS:	
A.	DAMPER
B.	COIL ACCESS
C.	REFRIGERATION ACCESS
D.	BLOWER ACCESS
E.	ELECTRICAL ACCESS

SPLIT SYSTEM INDOOR UNIT SCHEDULE

TAG:	HP-0-1	HP-0-2	HP-1-1	HP-1-2	HP-1-3	HP-1-4	HP-1-5	HP-1-6
MANUFACTURER	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI
MODEL	PKFY-P12NHMU-E	PKFY-P12NHMU-E	MSZ-GE12	MSZ-GE12	MSZ-GE12	PKFY-P12NHMU-E	PKFY-P12NHMU-E	PKFY-P12NHMU-E
TYPE	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED
SERVICE	COMM 005	ARMS VAULT 004	CORRIDOR 124	CORRIDOR 124	CORRIDOR 124	SIPR 125	COMM/NIPR 113	ELECT 125
COOLING CAPACITY								
COOLING MBH	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
HEATING MBH	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
FAN								
CFM	350	300	300	300	350	350	300	300
ELECTRICAL								
CURENT INPUT AMPS	0.30	0.21	0.21	0.21	0.30	0.30	0.21	0.21
UNIT DIMENSIONS (HxWxD)	12"x36"x10"	10"x32"x16"	10"x32"x16"	10"x32"x16"	12"x36"x10"	12"x36"x10"	10"x32"x16"	10"x32"x16"
UNIT WEIGHT (LB)	29.00	31.00	31.00	31.00	29.00	29.00	31.00	31.00
REFRIGERANT	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
REMARKS:	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2
REMARKS:								
1. CONDENSATE PUMP								
2. VIBRATION ISOLATION								

SPLIT SYSTEM INDOOR UNIT SCHEDULE

TAG:	HP-1-7	HP-2-1	HP-2-2	HP-2-3	HP-2-4	HP-3-1		
MANUFACTURER	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI		
MODEL	PKFY-P12NHMU-E	MSZ-GE12	MSZ-GE12	MSZ-GE12	MSZ-GE12	PKFY-P12NHMU-E		
TYPE	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED		
SERVICE	LOBBY 122	CORRIDOR 205	CORRIDOR 205	CORRIDOR 205	CORRIDOR 205	ELECTRICAL		
COOLING CAPACITY								
COOLING MBH	12.0	12.0	12.0	12.0	12.0	12.0		
HEATING MBH	13.5	13.5	13.5	13.5	13.5	13.5		
FAN								
CFM	300	300	300	300	300	350		
ELECTRICAL								
CURRENT INPUT AMPS	0.21	0.21	0.21	0.21	0.21	0.30		
UNIT DIMENSIONS (HxWxD)	10"x32"x16"	10"x32"x16"	10"x32"x16"	10"x32"x16"	10"x32"x16"	12"x36"x10"		
UNIT WEIGHT (LB)	31.00	31.00	31.00	31.00	31.00	29.00		
REFRIGERANT	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A		
REMARKS:	1,2	1,2	1,2	1,2	1,2	1,2		
REMARKS:								
1. CONDENSATE PUMP								
2. VIBRATION ISOLATION								

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

FINAL AS-BUILT DRAWINGS

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK | DESCRIPTION | DATE | APPR.

DESIGNED BY: ICT
DRAWN BY: ICT
SUBMITTED BY: ICT
CHECKED BY: ICT
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-3107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
FILE NAME: M-603.dgn
PLOT DATE: 5/1/2015 3:31:10 PM
SIZE: 22" x 34"
PLOT SCALE: 3/32" = 1'-0"

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
HVAC SCHEDULES

PLATE REFERENCE NUMBER
M-603
SHEET 229

74278- M-603-

CONDENSING UNIT SCHEDULE

TAG:	CDU-0-1	CDU-0-2	CDU-1-1	CDU-1-2	CDU-1-3	CDU-1-4	CDU-2-1	CDU-3-1
MANUFACTURER	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI
MODEL	PUY-A12NHA4	PUY-A12NHA4	PUY-A12NHA4	PUY-A12NHA4	PUY-A12NHA4	MXZ-8B48NA	MXZ-8B48NA	PUY-A12NHA4
SERVICE	HP-0-1	HP-0-1	HP-1-4	HP-1-5	HP-1-6	HP-1-1,2,3	HP-2-1,2,3,4	HP-3-1
COOLING CAPACITY (BTU/H)	12,000	12,000	12,000	12,000	12,000	48,000	48,000	12,000
HEATING CAPACITY (BTU/H)	NA	NA	NA	NA	NA	48,000	48,000	NA
ELECTRICAL								
MCA	13.00	13.00	13.00	13.00	13.00	32	32	13.00
MOCP	15.00	15.00	15.00	15.00	15.00	50	50	15.00
UNIT DIMENSIONS (WxDxH)	32"x12"x24"	32"x12"x24"	32"x12"x24"	32"x12"x24"	32"x12"x24"	38"x14"x54"	38"x14"x54"	32"x12"x24"
UNIT WEIGHT (LBS)	82	82	82	82	82	278	278	82
PIPING								
GAS SIDE	1/2"	1/2"	1/2"	1/2"	1/2"	5/8"	5/8"	1/2"
LIQUID SIDE	1/4"	1/4"	1/4"	1/4"	1/4"	3/8"	3/8"	1/4"
REMARKS:	1,2,3,4	1,2,3,4	1,2,3,4	1,2,3,4	1,2,3,4	1,2,3,4	1,2,3,4	1,2,3,4
REMARKS:								
1. OVER-HEAT PROTECTION								
2. THERMAL SWITCH								
3. BAS INTERFACE								

DEHUMIDIFIER SCHEDULE

TAG	D-1
SERVES	ARMS VAULT
MANUFACTURER	THERMA-STOR
MODEL	HI-E DRY 100
PINTS/DAY	106
ELECTRICAL	
VOLTAGE	115/1
# OF MOTORS	1
KW	0.61
AMPS	6.60
DIMENSIONS (LxWxH)	17"x20"x36"
WEIGHT (LBS)	110

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

FINAL AS-BUILT DRAWINGS

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

DESIGNED BY: ICT
DRAWN BY: ICT
CHECKED BY: ICT
SUBMITTED BY: ICT
FILE NAME: M-604.DGN
SIZE: 22" x 34"
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D-0049 T.O. 0007
CATEGORY CODE:
PLOT SCALE: 3/32" = 1'-0"
PLOT DATE: 5/1/2015 3:31:10 PM

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS

FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
HVAC SCHEDULES

PLATE REFERENCE NUMBER
M-604
SHEET 230

74278- M-604-

Symbol Legend

AFS AIR FLOW STATION	AFS AIR FLOW STATION, FAN MOUNTED	ALM ALARM, BELL	ALM ALARM, STROBE
ALM ALARM, PIEZIO	BLENDER, AIR	BURNER, FUEL-FIRED DIRECT	COIL, COAXIAL
C / C COIL, CHW, DX, HW, STEAM, ETC.	CONTROL POINT	CS OR CSR CS - CURRENT SENSOR ~ CSR - CURRENT SENSOR W/RELAY	D DAMPER, OPPOSED OR PARALLEL
D TRAQ DAMPER	DA ACTUATOR, DAMPER	DPS SENSOR, DIFFERENTIAL PRESSURE	DPS, DPT AIR DIFFERENTIAL SWITCH OR SENSOR
DPT, DPS H L DIFFERENTIAL PRESSURE SWITCH OR SENSOR	EXCHANGER, FUEL FIRE HEAT	EXCHANGER, FLUID HEAT	FAN OR PUMP
FAN, ROOF TOP	FILTER, AIR	FILTER, AIR BAG	FILTER, AIR HEPA
FILTER, AIR ROLL	FLT SWITCH, FLOAT	FS FIRESTAT	FS SENSOR, FLOW
HEATER, ELECTRIC DUCT	HDW SENSOR, ROOM STATIC PRESSURE	HDW TUBE, STATIC PRESSURE	HE, TEH SENSOR, DUCT HUMIDITY AND TEMPERATURE
HE, TEH SENSOR, HUMIDITY OR TEMPERATURE AND HUMIDITY	IAQ SENSOR, INDOOR AIR QUALITY	IRQ SENSOR, INDOOR AIR QUALITY (CO2)	LLT THERMOSTAT, LOW LIMIT
MS STARTER, MOTOR	OCC SENSOR, OCCUPANCY	PT TRANSMITTER, PRESSURE	R RELAY
R RELAY, SOCKET	RB SENSOR, OUTDOOR PRESSURE	RST SWITCH, RESET STATION	SD DETECTOR, SMOKE
SEQ SEQUENCER	SW ON / OFF SWITCH	SOL SOLENOID, AIR	SW SWITCH, BUTTON
T THERMOSTAT, WALL	TC COMPOUND, THERMAL	TE SENSOR, AVERAGING TEMPERATURE	TE SENSOR, STRAP ON TEMPERATURE
SW AUTO HEAT COOL SWITCH, ROTARY	TE SENSOR, TEMPERATURE	TE SENSOR, ZONE	TMR TIMER, ELECTRONIC WALL
TMR TIMER, WALL	TW WELL, THERMAL	TX TRANSFORMER	UV LIGHT, ULTRAVIOLET
VAL VALVE, 2-WAY COIL	VAL VALVE, 3-WAY COIL	VAL VALVE, DUCT HUMIDIFIER	VFD VARIABLE FREQUENCY DRIVE

BI

EMERGENCY SHUTDOWN

NOTE: THE HVAC SYSTEMS SHALL HAVE AN EMERGENCY SHUTDOWN MUSHROOM BUTTON TO SHUT ALL SYSTEMS DOWN IN THE CASE OF EMERGENCY. SEE PLANS FOR BUTTON LOCATION.

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

FINAL AS-BUILT DRAWINGS

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.ictthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
HVAC CONTROLS

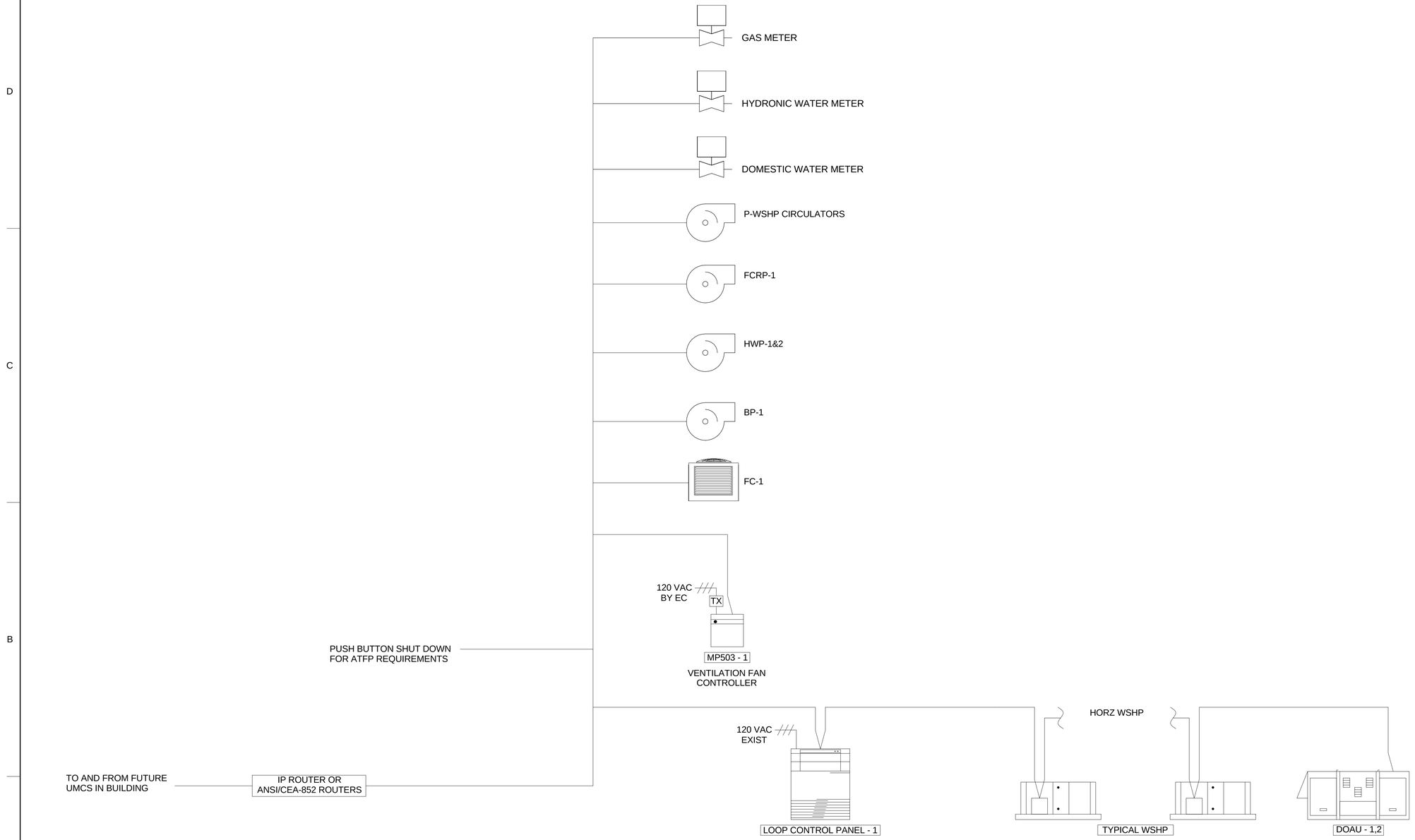
DESIGNED BY: ICT	CHECKED BY: ICT	ISSUE DATE: JUNE 2013	
DRAWN BY: ICT		SOLICITATION NO.: W912HN-09-X-5107	
SUBMITTED BY: ICT		CONTRACT NO.: W912HN-10-D-0048 T.O. 0007	
FILE NAME: M-701.dwg		CATEGORY CODE:	
SIZE: 22" x 34"	PLOT SCALE: 12" = 1'-0"	PLOT DATE: 5/1/2015 3:31:11 PM	

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

PLATE REFERENCE NUMBER
M-701
SHEET 231

74278- M-701-



THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

FINAL AS-BUILT DRAWINGS

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: ICT	CHECKED BY: ICT	ISSUE DATE: JUNE 2013	
DRAWN BY: ICT		SOLICITATION NO.: W912HN-09-X-5107	
SUBMITTED BY: ICT		CONTRACT NO.: W912HN-10-D-0048 T.O. 0007	
FILE NAME: M-702.dwg		CATEGORY CODE:	
SIZE: 22" x 34"	PLOT SCALE: 12" = 1'-0"	PLOT DATE: 5/1/2015 3:31:12 PM	

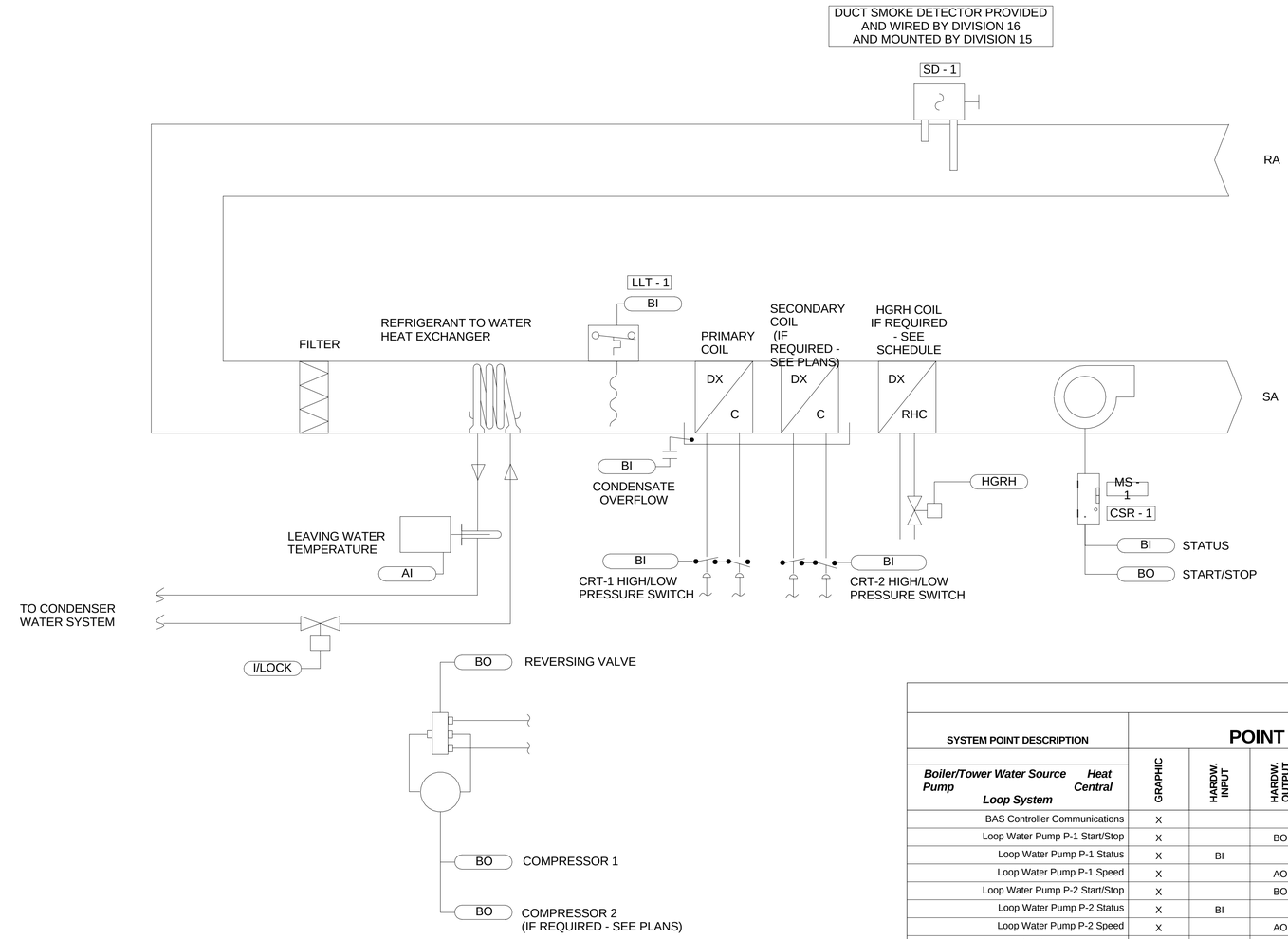
US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

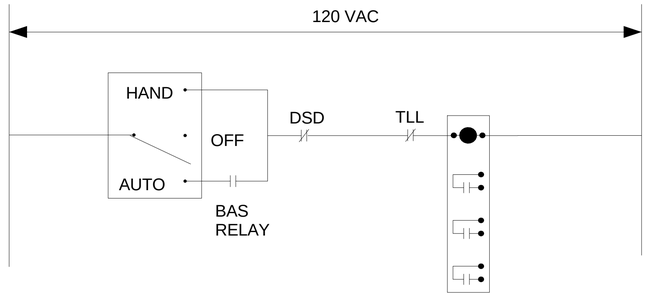
STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
HVAC CONTROLS

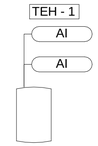
PLATE REFERENCE NUMBER
M-702
SHEET 232

74278- M-702-





SUPPLY FAN CONTROL



SPACE TEMPERATURE (AND HUMIDITY IF HOT GAS REHEAT IS PROVIDED - SEE SCHEDULE)

SYSTEM POINT LIST

SYSTEM POINT DESCRIPTION	POINT TYPE					ALARMS							NOTES:
Boiler/Tower Water Source Heat Pump Loop System Central	GRAPHIC	HARDW. INPUT	HARDW. OUTPUT	SOFTWARE POINT	DEFAULT VALUE	HIGH ANALOG	LOW ANALOG	BINARY	LATCH DIAGNOSTIC	SENSOR FAIL	COMM. FAIL	DIAGNOSTICS	
BAS Controller Communications	X			BV							X		
Loop Water Pump P-1 Start/Stop	X		BO										
Loop Water Pump P-1 Status	X	BI						X					
Loop Water Pump P-1 Speed	X		AO										
Loop Water Pump P-2 Start/Stop	X		BO										
Loop Water Pump P-2 Status	X	BI											
Loop Water Pump P-2 Speed	X		AO										
Loop Water Supply Temperature	X	AI				X	X			X			
Loop Water Return Temperature	X	AI				X	X			X			
Loop System Differential Pressure	X	AI				X	X			X			
Loop System Flow Switch	X	BI						X					
Outside Air Temperature	X	AI								X			
Outside Air Humidity	X	AI								X			
Loop Water Differential Pressure Setpoint	X			AV	15 PSI	X	X			X			
Tower Bypass Valve	X		AO										
Loop System Heat Addition Valve	X		AO										
Boiler Supply Water Temperature	X	AI				X	X			X			
Boiler Return Water Temperature	X	AI				X	X			X			
Boiler Flow Switch	X	BI						X					
Tower Supply Water Temperature	X	AI				X	X			X			
Tower Damper Control	X		BO										
Tower Fan VFD Start/Stop	X		BO										
Tower Fan Status	X	BI						X					
Tower VFD Fan Speed	X		AO										
Tower Recirculating Pump Start/Stop	X		BO										
Tower Recirculating Pump Status	X	BI						X					
Boiler Return System Flow	X	AI				X	X			X			
Closed Circuit Cooler System Flow	X	AI					X			X			
Loop High Supply Water Temp Setpoint	X			AV	85 degF								
Loop Low Supply Water Temp Setpoint	X			AV	65 degF								

GENERAL NOTES:

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

TYPICAL WSHP

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.ictthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: ICT
DRAWN BY: ICT
SUBMITTED BY: ICT
ISSUE DATE: JUNE 2013
CHECKED BY: ICT
SOLICITATION NO.: W912HN-09-X-S107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
FILE NAME: M-703.DWG
CATEGORY CODE:
SIZE: 22" x 34"
PLOT SCALE: 12" = 1'-0"
PLOT DATE: 5/1/2015 3:31:13 PM

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS
FL LIC #AA0003564

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
HVAC CONTROLS

PLATE REFERENCE NUMBER
M-703
SHEET 233

74278- M-703-

WATER SOURCE HEAT PUMP SEQUENCE OF OPERATION

OCCUPANCY - THE OCCUPANCY MODE CAN BE COMMUNICATED OR HARDWIRED TO THE ASC VIA A BINARY INPUT LOCATED ON THE SPACE SENSOR. VALID OCCUPANCY MODES FOR THE ASC SHALL BE:

OCCUPIED: NORMAL OPERATING MODE IS FOR OCCUPIED SPACES OR DAYTIME OPERATION. WHEN THE UNIT IS IN THE OCCUPIED MODE THE ASC SHALL MAINTAIN THE SPACE TEMPERATURE AT THE ACTIVE OCCUPIED HEATING OR COOLING SETPOINT. THE OCCUPIED MODE SHALL BE THE DEFAULT MODE OF THE ASC. THE OUTSIDE AIR DAMPER SHALL BE OPEN.

UNOCCUPIED: NORMAL OPERATING MODE FOR UNOCCUPIED SPACES OR NIGHTTIME OPERATION. WHEN THE UNIT IS IN UNOCCUPIED MODE THE ASC SHALL MAINTAIN THE SPACE TEMPERATURE AT THE STORED UNOCCUPIED HEATING OR COOLING SETPOINT. THE HARDWIRED OR COMMUNICATED SETPOINT IS NOT USED IN UNOCCUPIED. WHEN THE SPACE TEMPERATURE EXCEEDS THE ACTIVE UNOCCUPIED SETPOINT THE ASC SHALL BRING ON 100% OF THE PRIMARY HEATING OR COOLING CAPACITY.

OCCUPIED STANDBY : MODE USED TO REDUCE THE HEATING AND COOLING DEMANDS DURING THE OCCUPIED HOURS WHEN THE SPACE IS VACANT OR UNOCCUPIED. THE OUTDOOR AIR DAMPER IS CLOSED DURING OCCUPIED STANDBY. THE ASC SHALL INCREASE THE SEPARATION BETWEEN THE HEATING AND COOLING SETPOINTS DURING BRIEF PERIODS OF NO OCCUPANCY. AN OCCUPANCY SENSOR SHALL BE PROVIDED TO DETERMINE THE PRESENCE OF PEOPLE IN THE SPACE SERVED BY THE UNIT. WHEN THE SPACE IS OCCUPIED, THE ASC SHALL MAINTAIN SPACE TEMPERATURE AND PROVIDE MINIMUM VENTILATION PER THE OCCUPIED MODE. WHEN THE SPACE IS SENSED TO BE UNOCCUPIED, BUT DURING A SCHEDULE OCCUPANCY PERIOD, THE SPACE TEMPERATURE CONTROL SHALL FOLLOW SEPARATE OCCUPIED STANDBY SETPOINTS, OPERATOR CONFIGURABLE, AND CLOSE THE OUTDOOR AIR DAMPER.

OCCUPIED BYPASS : MODE USED TO TEMPORARILY PLACE THE UNIT INTO THE OCCUPIED OPERATION. TENANTS SHALL BE ABLE TO OVERRIDE THE UNOCCUPIED MODE FROM THE SPACE SENSOR. THE OVERRIDE SHALL LAST FOR A MAXIMUM OF 4 HOURS (CONFIGURABLE). THE TENANTS SHALL BE ABLE TO CANCEL THE OVERRIDE FROM THE SPACE SENSOR AT ANY TIME. DURING THE OVERRIDE THE UNIT SHALL RUN IN OCCUPIED MODE.

HEAT COOL MODE - THE HEAT COOL MODE CAN BE SET BY A COMMUNICATED VALUE OR AUTOMATICALLY BY THE ASC. IN STANDALONE OR AUTO MODE THE ASC SHALL AUTOMATICALLY DETERMINE THE HEAT COOL MODE BY INTEGRATING OVER TIME BETWEEN THE ACTIVE SETPOINT AND THE SPACE TEMPERATURE.

HEAT COOL SETPOINT - THE SPACE TEMPERATURE SETPOINT SHALL BE DETERMINED EITHER BY A LOCAL HARDWIRED SETPOINT, THE ASC DEFAULT SETPOINT OR A COMMUNICATED VALUE. THE ASC USES THE LOCALLY STORED DEFAULT SETPOINTS WHEN NEITHER A LOCAL HARDWIRED SETPOINT NOR COMMUNICATED SETPOINT IS PRESENT. IF BOTH A HARDWIRED SETPOINT AND COMMUNICATED SETPOINT EXIST, THE ASC SHALL USE THE COMMUNICATED VALUE. THE OCCUPIED HEATING AND COOLING SETPOINTS SHALL BE LIMITED BY ADJUSTABLE PARAMETERS IN THE ASC TO PREVENT THEM FROM BEING SET TOO LOW OR TOO HIGH. THESE LIMITS DO NOT APPLY IN THE UNOCCUPIED MODE. IN THE UNOCCUPIED MODE THE ASC SHALL ALWAYS USE THE STORED DEFAULT (UNOCCUPIED) SETPOINTS. THESE SETPOINTS SHALL BE WIDENED TO ACCOMMODATE NIGHT SETBACK AND SHALL BE ADJUSTABLE.

SETPOINT	DEFAULT VALUE
HEATING SETPOINT LOW LIMIT	40°F
COOLING SETPOINT LOW LIMIT	40°F
HEATING SETPOINT HIGH LIMIT	105°F
COOLING SETPOINT HIGH LIMIT	110°F

COOLING OPERATION - WHEN THE UNIT IS IN COOLING MODE, THE ASC SHALL MAINTAIN THE SPACE TEMPERATURE AT THE ACTIVE COOLING SETPOINT. BASED ON THE ASC OCCUPANCY MODE, THE ACTIVE COOLING SETPOINT SHALL BE ONE OF THE FOLLOWING:

SETPOINT	DEFAULT VALUE
OCCUPIED COOLING SETPOINT	74°F
UNOCCUPIED COOLING SETPOINT	85°F
OCCUPIED STANDBY COOLING SETPOINT	78°F

THE ASC SHALL USE THE MEASURED SPACE TEMPERATURE AND THE ACTIVE COOLING SETPOINT TO DETERMINE THE REQUESTED COOLING CAPACITY OF THE UNIT. THE OUTPUTS SHALL BE CONTROLLED BASED ON THE UNIT CONFIGURATION AND THE REQUESTED COOLING CAPACITY.

HEATING OPERATION - WHEN THE UNIT IS IN HEATING MODE, THE ASC SHALL MAINTAIN THE SPACE TEMPERATURE AT THE ACTIVE HEATING SETPOINT. BASED ON THE ASC OCCUPANCY MODE, THE ACTIVE HEATING SETPOINT SHALL BE ONE OF THE FOLLOWING:

SETPOINT	DEFAULT VALUE
OCCUPIED HEATING SETPOINT	71°F
UNOCCUPIED HEATING SETPOINT	60°F
OCCUPIED STANDBY HEATING SETPOINT	67°F

THE ASC SHALL USE THE MEASURED SPACE TEMPERATURE AND THE ACTIVE HEATING SETPOINT TO DETERMINE THE HEATING CAPACITY OF THE UNIT. THE OUTPUTS SHALL BE CONTROLLED BASED ON THE UNIT CONFIGURATION AND THE REQUESTED HEATING CAPACITY.

TRANSITION FROM UNOCCUPIED TO OCCUPIED - WHEN THE UNIT TRANSITIONS FROM UNOCCUPIED MODE TO THE OCCUPIED MODE, MORNING WARM-UP/COOL DOWN AND RANDOM START ROUTINES SHALL BE ACTIVATED.

MORNING WARM-UP - WHEN THERE IS A CALL FOR HEATING AND THE SPACE TEMPERATURE IS THREE DEGREES F OR MORE BELOW THE OCCUPIED HEATING SETPOINT A MORNING WARM-UP SEQUENCE SHALL BE ACTIVATED. DURING WARM-UP THE FAN SHALL BE TURNED ON, THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED, AND THE HEATING CAPACITY SHALL BE ENABLED AT FULL CAPACITY. WHEN THE SPACE TEMPERATURE IS WITHIN 2 DEGREES OF THE OCCUPIED HEATING SETPOINT THE ASC SHALL OPERATE IN OCCUPIED MODE.

MORNING COOL-DOWN - WHEN THERE IS A CALL FOR COOLING AND THE SPACE TEMPERATURE IS 3° F OR MORE OVER THE OCCUPIED COOLING SETPOINT A MORNING COOL-DOWN SEQUENCE SHALL BE ACTIVATED. DURING MORNING COOL-DOWN THE FAN SHALL BE TURNED ON, THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED, AND THE COOLING CAPACITY SHALL BE ENABLED AT FULL CAPACITY. WHEN THE SPACE TEMPERATURE IS WITHIN 2 DEGREES OF THE OCCUPIED COOLING SETPOINT THE ASC SHALL OPERATE IN OCCUPIED MODE.
RANDOM START - A RANDOMLY GENERATED 3-32 SECOND DELAY SHALL BE ACTIVATED WHEN ELECTRIC POWER IS APPLIED TO THE ASC OR AFTER RECEIVING A COMMUNICATED OCCUPIED COMMAND.

FAN OPERATION - THE FAN SHALL BE CONFIGURABLE TO OPERATE CONTINUOUSLY OR CYCLE IN ALL OCCUPIED MODES. THE FAN MODE SWITCH CAN BE HARDWIRED FROM THE SPACE SENSOR OR COMMUNICATED. DURING UNOCCUPIED MODE, THE FAN SHALL CYCLE BETWEEN OFF AND ON. WHEN CYCLING; THE FAN SHALL TURN ON AND OFF FOLLOWING THE COMPRESSORS OPERATION. THE FRESH AIR INTAKE TO THE SPACE SHALL BE OPEN WHEN THE FAN IS ON IN OCCUPIED MODE. THE DAMPER SHALL REMAIN CLOSED AT ALL TIMES DURING UNOCCUPIED PERIODS.

DX COOLING - BASED ON THE HEAT/COOL MODE THE ASC SHALL STAGE ON AND OFF THE COMPRESSORS USING A PWM ALGORITHM TO MAINTAIN THE SPACE COMFORT. THE COMPRESSORS SHALL BE DISABLED IF THE SUPPLY FAN IS OFF. THE ASC SHALL PROVIDE MINIMUM ON AND OFF TIMERS TO PREVENT CYCLING THE COMPRESSORS, OPERATOR CONFIGURABLE. FOR TWO COMPRESSOR UNITS, IF ONE OF THE COMPRESSORS IS LOCKED OUT AS A RESULT OF EITHER A LOW TEMPERATURE DETECTION DIAGNOSTIC, A LEAVING WATER TEMPERATURE FAILURE DIAGNOSTIC OR A HIGH/LOW PRESSURE CUTOUT DIAGNOSTIC THE OPERATION OF THE OTHER COMPRESSOR SHALL NOT BE AFFECTED.

REVERSING VALVE OPERATION - THE ASC SHALL BE ABLE TO CONFIGURE THE REVERSING VALVE EITHER NORMALLY CLOSED OR NORMALLY OPEN ACCORDING TO THE HEAT PUMP CONFIGURATION. IF THE REVERSING VALVE IS ENERGIZED IT SHALL REMAIN ENERGIZED UNTIL A MODE CHANGE (EITHER FROM COOLING TO HEATING OR VICE VERSA) IS INITIATED OR IF THE FAN SWITCH IS SET TO OFF. THE ASC SHALL DELAY THE REVERSING VALVE OPERATION AFTER A COMPRESSOR SHUTDOWN TO REDUCE NOISE DUE TO REFRIGERANT MIGRATION.

OUTSIDE AIR DAMPER CONTROL - ONLY DURING THE “OCCUPIED” MODE SHALL THE OUTSIDE AIR DAMPER BE OPEN. DURING UNOCCUPIED MODE, MORNING WARM-UP AND MORNING COOL DOWN THE OUTSIDE AIR DAMPER SHALL BE CLOSED. DURING OCCUPIED AND OCCUPIED STANDBY THE OUTSIDE AIR DAMPER SHALL OPEN AND CLOSE WITH THE FAN OPERATION. THE BUILDING AUTOMATION SYSTEM (BAS) SHALL SEND THE ASC THE OCCUPIED SPACE HEATING AND COOLING TEMPERATURE SETPOINTS. THE BAS SHALL ALSO SEND THE FOLLOWING COMMANDS:
OCCUPIED
UNOCCUPIED
HEAT/COOL MODE
PRIORITY SHUTDOWN COMMANDS
IF COMMUNICATION WITH THE BAS IS LOST, THE ASC SHALL USE PREDETERMINED DEFAULT SETPOINTS AND OPERATE IN THE OCCUPIED MODE.

SAFETIES AND ALARMS

FIRST CIRCUIT LEAVING WATER TEMPERATURE DETECTION - THE LEAVING WATER TEMPERATURE IS USED TO PROTECT THE HEAT EXCHANGER FROM FREEZING. THE ASC SHALL COMPARE THE LEAVING WATER TEMPERATURE TO THE LEAVING WATER TEMPERATURE CUTOUT SETPOINT 35°F OPERATOR ADJUSTABLE. WHEN THE LEAVING WATER TEMPERATURE FALLS BELOW THE CUTOUT SETPOINT, THE ASC SHALL GENERATE A CIRCUIT 1 LOW TEMPERATURE DETECTION LATCHING DIAGNOSTIC AND DISABLE THE COMPRESSOR UNTIL THE TEMPERATURE CONDITION IS RESTORED AND THE DIAGNOSTIC IS MANUALLY RESET. THIS DIAGNOSTIC SHALL NOT AFFECT THE OPERATION OF THE FAN, THE OUTSIDE AIR DAMPER OR THE SECOND COMPRESSOR. IF LOW TEMPERATURE DETECTION DIAGNOSTICS ARE ISSUED FOR BOTH COMPRESSORS THE ASC SHALL COMPLETELY SHUT DOWN THE UNIT.

FAN OFF DELAY - AFTER HEATING HAS BEING CONTROLLED OFF, THE ASC SHALL KEEP THE FAN ENERGIZED FOR AN ADDITIONAL 30 SECONDS. THE PURPOSE OF THIS ACTION IS TO REMOVE RESIDUAL HEAT FROM THE HEATING SOURCE.

CONDENSATE OVERFLOW - WHEN THE CONDENSATE OVERFLOW SWITCH TRIPS, THE ASC SHALL STOP THE FAN, DISABLE THE COMPRESSORS AND CLOSE THE OUTSIDE AIR DAMPER (IF PRESENT). A CONDENSATE OVERFLOW LATCHING DIAGNOSTIC SHALL BE ISSUED.

HIGH/LOW PRESSURE CUTOUT - ON SINGLE COMPRESSOR UNITS, DURING NORMAL OPERATION, IF THE HIGH/LOW PRESSURE SWITCH OPENS, THE ASC SHALL STOP THE FAN AND CLOSE THE OUTSIDE AIR DAMPER AND A HIGH/LOW PRESSURE CUTOUT LATCHING DIAGNOSTIC SHALL BE ISSUED. IN TWO COMPRESSOR UNITS THE FAILED COMPRESSOR SHALL BE DISABLED, THIS DIAGNOSTIC SHALL NOT AFFECT THE OPERATION OF THE SECOND COMPRESSOR. THE BAS SYSTEM SHALL PROVIDE ALARM MESSAGES FOR THE FOLLOWING ASC DIAGNOSTICS. THE ASC SHALL INITIATE A FAILSAFE OPERATIONAL SEQUENCE BASED ON THE DIAGNOSTIC CONDITION.

HOT GAS REHEAT
IF THE WSHP IS FITTED WITH HOT GAS REHEAT (SEE SCHEDULE) THE UNIT SHALL EXTEND THE COOLING OPERATION BY INITIALIZING THE HOT GAS REHEAT CIRCUIT WHEN THE SPACE HUMIDITY SENSOR VALUE EXCEEDS THE SPACE HUMIDITY SETPOINT OF 55%RH (ADJUSTABLE).

WSHP LOOP CONTROL SEQUENCE OF OPERATION

THE WSHP LOOP SYSTEM SHALL BE CONTROLLED BY THE BAS TO SEQUENCE THE COOLING AND HEATING EQUIPMENT AND MAINTAIN THE LOOP TEMPERATURE. THE LOOP CONTROLLER SHALL BE PROGRAMMED AS FOLLOWS TO OPTIMIZE THE WSHP SYSTEM.

OPERATING STATUS
THE LOOP CONTROLLER (LC) SHALL HAVE SEVERAL OPERATING MODES THAT ARE DISPLAYED ON THE LC SCREEN. THESE DETERMINE HOW THE MECHANICAL EQUIPMENT IS CONTROLLED. THE LC SHALL PROVIDE THE FOLLOWING MODES OF OPERATION:

A. DISABLED-- THIS OCCURS WHEN THE SYSTEM ENABLE SWITCH IS IN THE OFF POSITION. ALL MECHANICAL EQUIPMENT INCLUDING THE WATER-SOURCE UNITS IS DISABLED IN AN ORDERLY MANNER BY THE LC. THIS MODE CAN BE USED WHEN SERVICE NEEDS TO BE PERFORMED ON THE SYSTEM.
B. ALARM-- THIS MODE APPEARS WHENEVER A SYSTEM ALARM OR LC HARDWARE FAILURE IS PRESENT. THE LC MAY CONTINUE TO OPERATE DEPENDING IN THE SEVERITY OF THE ALARM.
C. OCCUPIED-- WHEN THE SCHEDULING FUNCTION IS USED ON THE LC THE OCCUPIED MODE INDICATES THE PERIOD OF TIME THAT PEOPLE WILL BE USING THE BUILDING.
D. UNOCCUPIED-- THE SCHEDULE IN THE LC HAS BEEN USED TO PLACE THE SYSTEM IN THE UNOCCUPIED MODE. NO HEAT REJECTION, HEAT ADDITION, PUMP OPERATION, OR WATER-SOURCE UNIT OPERATION IS ALLOWED UNLESS THERE IS A PUMP REQUEST. THE OCCUPANCY OUTPUT IS ALSO DISABLED.
E. BYPASS-- THIS INDICATES THAT THE UNOCCUPIED BYPASS SWITCH HAS BEEN ACTIVATED AND THAT THE SYSTEM HAS BEEN BROUGHT IN THE OCCUPIED MODE REGARDLESS OF THE SCHEDULE. IN COMMUNICATING SYSTEMS, THIS CAN ALSO BE INITIATED BY PRESSING THE ON BUTTON ON THE WATER SOURCE UNIT ZONE SENSOR.
F. PUMP REQUEST--OCCURS WHEN THE SYSTEM IS IN THE UNOCCUPIED MODE AND THERE HAS BEEN EITHER A COMMUNICATED REQUEST OR HARD-WIRED REQUEST FROM A WATER-SOURCE UNIT TO RUN. THIS WILL OCCUR WHEN A WATER SOURCE UNIT NEEDS TO SATISFY ITS UNOCCUPIED SETPOINT.
G. LOAD SHED-- THIS INDICATES THAT THE LC IS RECEIVING AN INPUT FROM AN OUTSIDE SOURCE THAT HAS INITIATED THE LOAD SHED FEATURE.
H. PRE-HEAT -- SIGNIFIES THE LC IS OPERATING IN THE PRE-HEAT MODE PRIOR TO THE OCCUPANCY TRANSITION.
I. PRE-COOL-- SIGNIFIES THE LC IS OPERATING IN THE PRE-COOL MODE PRIOR TO THE OCCUPANCY TRANSITION.
J. OPTIMIZING-- THE LC IS IN THE OPTIMIZATION MODE.

OPERATING MODE
THE OPERATION OF THE LC SHALL BE DIVIDED INTO THE HEAT MODE AND THE COOL MODE. THE MODES REFLECT WHETHER THE LC IS TRYING TO ADD HEAT OR REJECT HEAT TO THE WATER LOOP AND THIS IS BASED UPON THE LOOP SUPPLY LOW SETPOINT AND THE LOOP SUPPLY HIGH SETPOINT.

PUMP OPERATION
DURING START-UP OF THE SYSTEM, THE MAIN LOOP PUMP SHALL START FIRST IN ORDER TO ESTABLISH FLOW. IF FLOW IS NOT SENSED IN THE LOOP FOR FIVE CONTINUOUS SECONDS THE PUMP WILL BE SHUT-DOWN AND THE ALARM OUTPUT WILL BE ENABLED. IF THERE IS A BACK-UP PUMP IT WILL IMMEDIATELY START AND TRY TO ESTABLISH FLOW WITH IN THE SAME TIME WINDOW. IF THE BACK-UP PUMP IS UNABLE TO ESTABLISH FLOW IT ALSO WILL BE TURNED-OFF AND THE LC WILL HAVE TO BE MANUALLY RESET AFTER THE APPROPRIATE SERVICE WORK IS DONE. IF AT ANY TIME THE SYSTEM FLOW IS LOST THE COMPRESSORS ON THE WATER-SOURCE UNITS ARE DISABLED WITHIN 5 TO 10 SECONDS. THIS PREVENTS UNWANTED SAFETY CUTOUTS AT THE INDIVIDUAL UNITS. IF A BACK-UP PUMP IS AVAILABLE, THE LC IMMEDIATELY STARTS IT AND WILL RE-ENABLE THE WATER-SOURCE UNIT COMPRESSORS AFTER THE PROOF-OF-FLOW TIMER IS SATISFIED. ONCE WATER FLOW IS ESTABLISHED IN THE LOOP FOR 15 SECONDS, THE LC WILL CHOOSE THE APPROPRIATE SYSTEM MODE. ONCE FLOW IS ESTABLISHED, THERE IS A ONE-MINUTE DELAY BEFORE COMPRESSORS ARE AVAILABLE, AND THE BOILER OR COOLING TOWER CAN BE ACTIVATED. THIS ALLOWS TIME FOR THE WATER VOLUME OF THE SYSTEM TO CIRCULATE SO THE CORRECT SYSTEM MODE SELECTION CAN BE MADE. AFTER THE PUMPS HAVE SATISFIED THE PROOF OF FLOW TIMER (DEFAULT: 30 SECONDS) THE WATER-SOURCE UNITS ARE SENT A SIGNAL ALLOWING THEM THE BEGIN OPERATION. FOR LEAD/LAG OPERATION OF TWO PUMPS, THE PUMPS ARE ROTATED ONCE A WEEK. THIS OCCURS AT THE FIRST LOOP PUMP START-UP AFTER MONDAY 12:00 AM, ACCORDING TO THE INTERNAL TIME CLOCK.

LOOP FLOW CONTROL - THE BAS SHALL MONITOR THE LOOP SYSTEM DIFFERENTIAL PRESSURE AT DPT-1 AND SHALL MODULATE THE PUMP VFD TO MAINTAIN THE LOOP PRESSURE SETPOINT. THE LOOP PRESSURE SETPOINT SHALL BE ESTABLISHED BY THE TEST AND BALANCE PROCESS, BUT SHALL HAVE AN INITIAL SETPOINT OF 15 PSI (ADJUSTABLE). THE INDIVIDUAL WSHP UNITS SHALL HAVE 2 POSITION VALVES IN THE CONDENSER WATER RETURN TO SHUT THE FLOW OFF TO THE UNIT WHEN THE COMPRESSOR IS OFF.

COOLING TOWER OPERATION
WHEN THE LOOP SUPPLY TEMPERATURE IS 4 DEGF BELOW THE LOOP SUPPLY HIGH SETPOINT (85 DEGF; ADJUSTABLE), THE FIRST STAGE OF COOLING SHALL BE INITIATED BY OPENING THE TOWER ISOLATION VALVES AND THEN STARTING THE CONDENSER LOOP PUMPS. WHEN THE TEMPERATURE OF THE COOLING WATER REACHES THE LOOP SUPPLY HIGH SETPOINT, THE COOLING TOWER FAN SHALL BE STARTED AND THE VFD SHALL MODULATE FROM 0% TO 100% BETWEEN THE LOOP SUPPLY HIGH SETPOINT AND 6 DEGF ABOVE THE LOOP SUPPLY HIGH SETPOINT. (IF STAGED FANS ARE APPLIED IN LIEU OF A VFD, THE STAGING OF THE FANS SHALL OCCUR BETWEEN THE LOOP SUPPLY HIGH SETPOINT AND 6 DEGF ABOVE THE LOOP SUPPLY HIGH SETPOINT). THE COOLING TOWER FAN SHALL MODULATE DOWN FROM 100% TO 0% AS THE LOOP TEMPERATURE DROPS FROM 6 DEGF ABOVE THE LOOP SUPPLY HIGH SETPOINT AND 3 DEGF BELOW THE LOOP SUPPLY HIGH SETPOINT TO MINIMIZE FAN CYCLING.

BOILER OPERATION
WHEN THE LOOP SUPPLY TEMPERATURE FALLS BELOW THE LOW LOOP SUPPLY TEMPERATURE (68 DEGF; ADJUSTABLE), THE LC SHALL INDEX THE CONDENSER WATER SYSTEM OFF AND ENABLE THE BOILER SYSTEM. THE BOILER, ONCE ENABLED, SHALL OPERATE TO MAINTAIN THE DESIRED BOILER LOOP TEMPERATURE WITH THE BOILER'S SELF CONTAINED PACKAGED CONTROLS (180 DEGF; ADJUSTABLE). THE 3-WAY DIVERTING VALVE SHALL ALLOW FLOW TO THE MAIN LOOP TO MAINTAIN THE 68 DEGF LOW LOOP SUPPLY TEMPERATURE SETPOINT. IF THE LEAD BOILER IS UNABLE TO MAINTAIN THE LOOP WATER SETPOINT THE LAG BOILER SHALL BE STARTED TO MAINTAIN THE LOOP WATER SETPOINT. THE BOILER LEAD/ LAG DESIGNATION IN THE BAS SHALL ROTATE THE BOILERS ON THE SAME SCHEDULE AS THE PUMP ROTATION. ON START-UP OF THE BOILER SYSTEM, THE DIVERTING VALVE SHALL NOT ALLOW THE BOILER RETURN WATER TEMPERATURE TO DROP BELOW 140 DEGF. THE BOILER SHALL REMAIN ENABLED UNTIL THE MAIN SYSTEM LOOP WATER TEMPERATURE IS 5 DEGF GREATER THAN THE LOW LOOP SUPPLY SETPOINT FOR GREATER THAN 5 MINUTES. THE LC SHALL ALSO MONITOR THE BOILER LOOP WATER SUPPLY TEMPERATURE AND GENERATE AN ALARM IF THE TEMPERATURE IS BELOW THE BOILER LOOP LOW LIMIT (140 DEGF; ADJUSTABLE) AFTER 30 MINUTES OF RUNTIME. THE LC WILL ALSO GENERATE AN ALARM IF THE BOILER LOOP TEMPERATURE EXCEEDS THE BOILER LOOP HIGH LIMIT (200 DEGF; ADJUSTABLE) AFTER 30 MINUTES OF CONTINUOUS RUNTIME. THE BAS SHALL ALSO MONITOR THE BOILERS INTERNAL ALARM CIRCUIT; IN THE EVENT OF A FAILURE OF THE BOILER SYSTEM, THE BAS SHALL GENERATE AN ALARM.

OCCUPIED/UNOCCUPIED
THE LC SHALL PROVIDE OCCUPANCY SCHEDULING FOR THE BUILDING. EACH WATER-SOURCE UNIT SHALL HAVE A UNIT CONTROLLER AND COMMUNICATIONS WITH THE LC. WHEN IN THE UNOCCUPIED MODE THE LC SHALL INDIVIDUALLY SEE EACH WATER-SOURCE UNIT THAT NEEDS TO OPERATE TO SATISFY ITS UNOCCUPIED SETPOINTS. WHEN THERE ENOUGH DEMAND TO EQUAL THE MINIMUM REQUESTS PARAMETER (ADJUSTABLE), THE LC WILL THEN ENABLE THE MAIN PUMP AND ALLOW THE COMPRESSOR TO RUN. WHEN THE DEMAND FALLS BELOW THE MINIMUM REQUESTS THE SYSTEM IS SHUT DOWN. IF THE “ON” BUTTON ON THE WATER SOURCE UNIT ZONE SENSOR IS ACTIVATED, THE LC WILL START THE PUMP AND ALLOW THE COMPRESSOR IN THAT UNIT TO OPERATE UNTIL THE “ON” TIMER IS SATISFIED.

LOOP OPTIMIZATION
THE LC SHALL PROVIDE A LOOP OPTIMIZATION FUNCTION TO REDUCE THE ENERGY CONSUMPTION OF THE SYSTEM BY TAKING ADVANTAGE OF MILD TEMPERATURE DAYS WHEN THE BUILDING IS STILL PREVALENTLY IN NEED OF COOLING. BY REDUCING THE LOOP WATER TEMPERATURE BELOW THE NORMAL SETPOINT THE WATER-SOURCE UNITS WILL OPERATE MORE EFFICIENTLY. THE EXTRA ENERGY REQUIRED TO OPERATE THE COOLING TOWER TO ACHIEVE THE LOWER LOOP TEMPERATURE IS LESS THAN THE ENERGY SAVED BY THE WATER-SOURCE UNITS. THE LC SHALL CALCULATE THE OUTSIDE AIR WET-BULB TEMPERATURE AND THEN ADDS TO IT THE COOLING TOWER APPROACH TEMPERATURE. IF THE TOTAL IS LESS THAN THE LOOP SUPPLY HIGH SETPOINT, THE LC THEN CHECKS TO SEE IF THERE ARE ENOUGH WATER-SOURCE UNIT TONNAGE TO JUSTIFY OPTIMIZATION. IF THERE IS ENOUGH COOLING TONNAGE, THE LC THEN USES THE TOTAL AS THE NEW ACTIVE SETPOINT, BUT IT WILL NOT GO BELOW THE CONFIGURABLE MINIMUM LOOP SETPOINT.

PRE-COOL
THE LC SHALL HAVE A PRE-COOL SEQUENCE TO TAKE ADVANTAGE OF THE LOW OUTSIDE AIR TEMPERATURES THAT OCCUR IN THE EARLY MORNING HOURS BY RUNNING THE COOLING TOWER TO DRIVE DOWN THE LOOP WATER TEMPERATURE (THIS DECREASES THE DAILY ENERGY USAGE OF THE SYSTEM AND PREVENTS AN OVERWHELMING INCREASE IN LOOP TEMPERATURE WHEN ALL THE WATER-SOURCE UNITS ARE COMMANDED INTO THE OCCUPIED MODE). PRE-COOL SHALL OCCUR 60 MINUTES BEFORE THE FIRST SCHEDULED OCCUPIED PERIOD OF THE DAY WHENEVER THE LC IS IN THE COOL MODE. THE LC SHALL CALCULATES THE OUTSIDE AIR WET BULB TEMPERATURE. THE COOLING TOWER APPROACH TEMPERATURE (CONFIGURABLE TO THE SPECIFIC DESIGN) IS ADDED TO THIS VALUE AND THE TOTAL IS COMPARED TO THE HIGH LOOP SUPPLY SETPOINT. IF FAVORABLE CONDITIONS ARE PRESENT, THE LC WILL START THE LOOP PUMP AND RUN THE COOLING TOWER, BUT WILL NOT DRIVE THE LOOP SUPPLY TEMPERATURE BELOW THE LOW LOOP SUPPLY SETPOINT.

PRE-HEAT
THE LC SHALL HAVE A PRE-HEAT SEQUENCE TO CHARGE THE WATER LOOP WITH EXTRA HEAT ENERGY BEFORE THE FIRST SCHEDULED OCCUPIED MODE OF THE DAY (THIS PREVENTS THE LOOP TEMPERATURE FROM DROPPING TOO FAR BELOW THE LOW LOOP LIMIT SETPOINT). PRE-HEAT SHALL OCCUR 60 MINUTES BEFORE THE FIRST SCHEDULED OCCUPIED PERIOD OF THE DAY WHENEVER THE LC IS IN THE HEAT MODE. THE LC SHALL CHECK THE OUTSIDE AIR TEMPERATURE TO SEE IF IT IS BELOW THE CONFIGURABLE PRE-HEAT OUTSIDE AIR SETPOINT (CONFIGURABLE). IF IT IS, THE BOILER PUMP SHALL BE ENABLED AND THE LOOP TEMPERATURE SHALL BE RAISED TO THE PRE-HEAT SETPOINT.

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: ICT
DRAWN BY: ICT
SUBMITTED BY: ICT
CHECKED BY: ICT
FILE NAME: M-704.dwg
SIZE: 22" x 34"
PLOT SCALE: 12" = 1'-0"
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-S107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
PLOT DATE: 5/1/2015 3:11:13 PM

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS

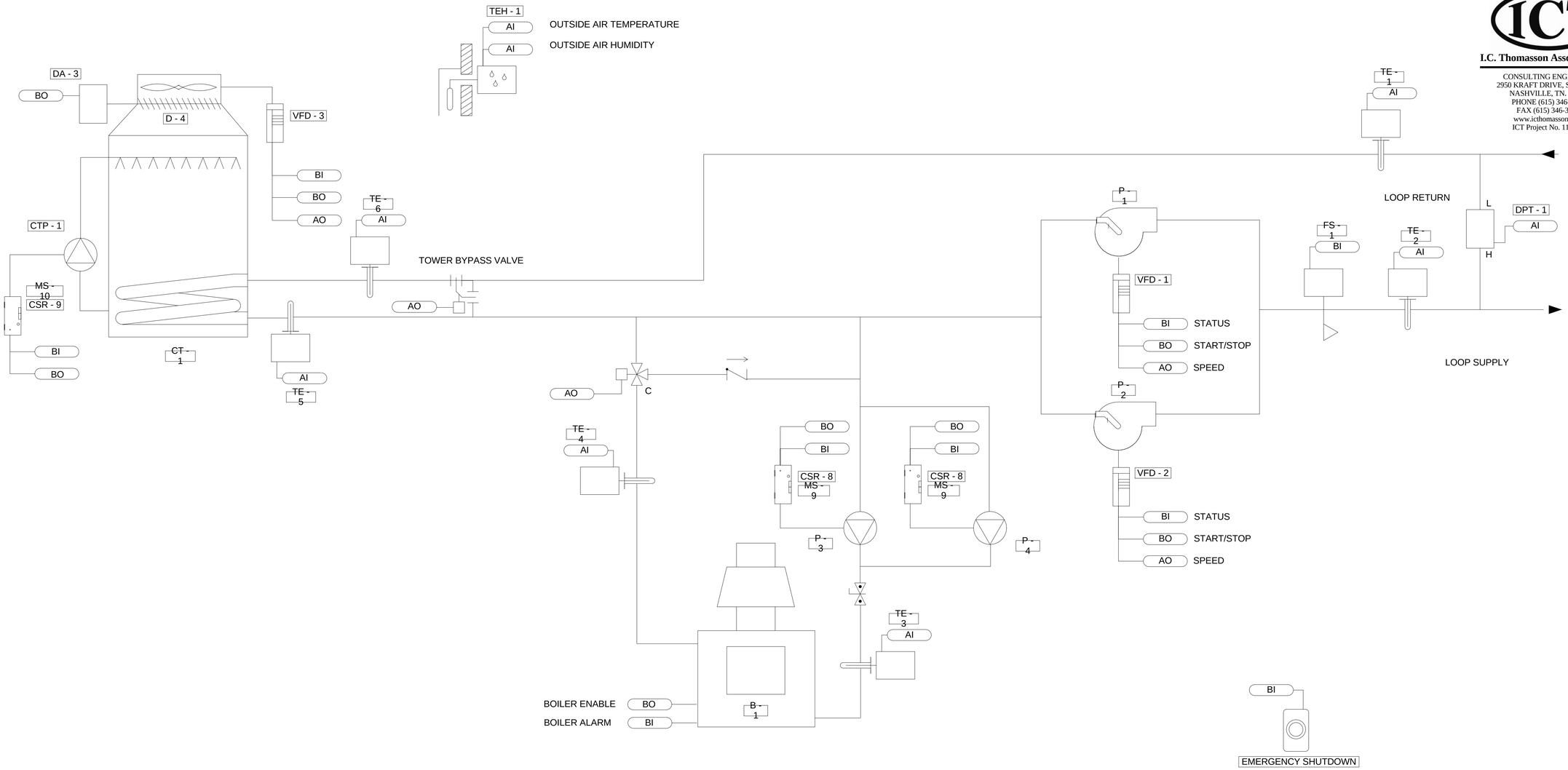
FL LIC #AA0003564

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
HVAC CONTROLS

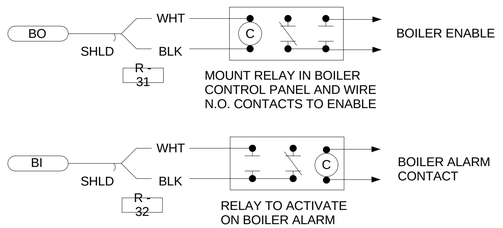
PLATE REFERENCE NUMBER
M-704
SHEET 234

74278- M-704-

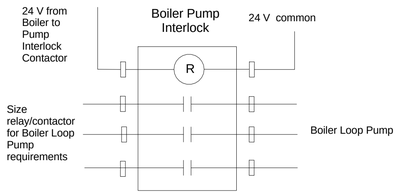


CENTRAL LOOP SYSTEMS

NOTE: THE HVAC SYSTEMS SHALL HAVE AN EMERGENCY SHUTDOWN MUSHROOM BUTTON TO SHUT ALL SYSTEMS DOWN IN THE CASE OF EMERGENCY. SEE PLANS FOR BUTTON LOCATION.



BOILER CONTROL INTERFACE



BOILER PUMP P-3,4 CONTROL INTERLOCK

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

APPR./ DATE / DESCRIPTION / MARK

DESIGNED BY: ICT
DRAWN BY: ICT
CHECKED BY: ICT
SUBMITTED BY: ICT
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D-0049 T.O. 0007
FILE NAME: M-705.dgn
CATEGORY CODE:
SIZE: 22" x 34"
PLOT SCALE: 12" = 1'-0"
PLOT DATE: 5/1/2015 3:31:14 PM

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

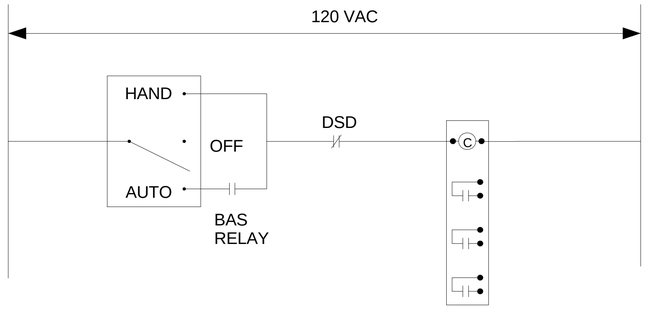
STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

FINAL AS-BUILT DRAWINGS

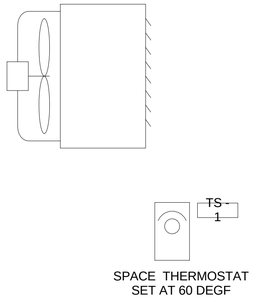
RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
HVAC CONTROLS

PLATE REFERENCE NUMBER
M-705
SHEET 235

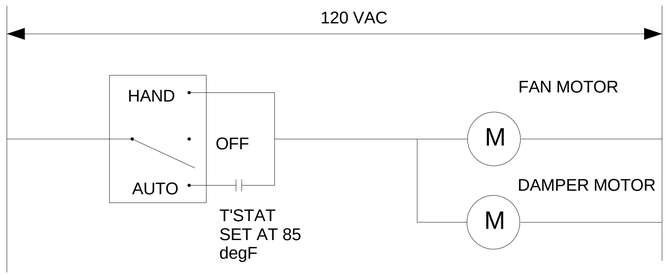
74278- M-705-



EXHAUST FAN CONTROL



UNIT HEATER CONTROL



VENTILATION FAN CONTROL

SYSTEM POINT LIST

SYSTEM POINT DESCRIPTION	POINT TYPE					ALARMS							NOTES:
Boiler/Tower Water Source Heat Pump Central Loop System	GRAPHIC	HARDW. INPUT	HARDW. OUTPUT	SOFTWARE POINT	DEFAULT VALUE	HIGH ANALOG	LOW ANALOG	BINARY	LATCH DIAGNOSTIC	SENSOR FAIL	COMM. FAIL	DIAGNOSTICS	
BAS Controller Communications	X			BV							X		
Loop Water Pump P-1 Start/Stop	X		BO										
Loop Water Pump P-1 Status	X	BI						X					
Loop Water Pump P-1 Speed	X		AO										
Loop Water Pump P-2 Start/Stop	X		BO										
Loop Water Pump P-2 Status	X	BI											
Loop Water Pump P-2 Speed	X		AO										
Loop Water Supply Temperature	X	AI				X	X			X			
Loop Water Return Temperature	X	AI				X	X			X			
Loop System Differential Pressure	X	AI				X	X			X			
Loop System Flow Switch	X	BI						X					
Outside Air Temperature	X	AI								X			
Outside Air Humidity	X	AI								X			
Loop Water Differential Pressure Setpoint	X			AV	15 PSI	X	X			X			
Tower Bypass Valve	X		AO										
Loop System Heat Addition Valve	X		AO										
Boiler Supply Water Temperature	X	AI				X	X			X			
Boiler Return Water Temperature	X	AI				X	X			X			
Boiler Flow Switch	X	BI						X					
Tower Supply Water Temperature	X	AI				X	X			X			
Tower Damper Control	X		BO										
Tower Fan VFD Start/Stop	X		BO										
Tower Fan Status	X	BI						X					
Tower VFD Fan Speed	X		AO										
Tower Recirculating Pump Start/Stop	X		BO										
Tower Recirculating Pump Status	X	BI						X					
Boiler Return System Flow	X	AI				X	X			X			
Closed Circuit Cooler System Flow	X	AI					X			X			
Loop High Supply Water Temp Setpoint	X			AV	85 degF								
Loop Low Supply Water Temp Setpoint	X			AV	65 degF								

GENERAL NOTES:

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: ICT
DRAWN BY: ICT
CHECKED BY: ICT
SUBMITTED BY: ICT
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-S107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
FILE NAME: M-706.DWG
PLOT DATE: 5/1/2015 3:11:15 PM
SIZE: 22" x 34"
PLOT SCALE: 12" = 1'-0"

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS

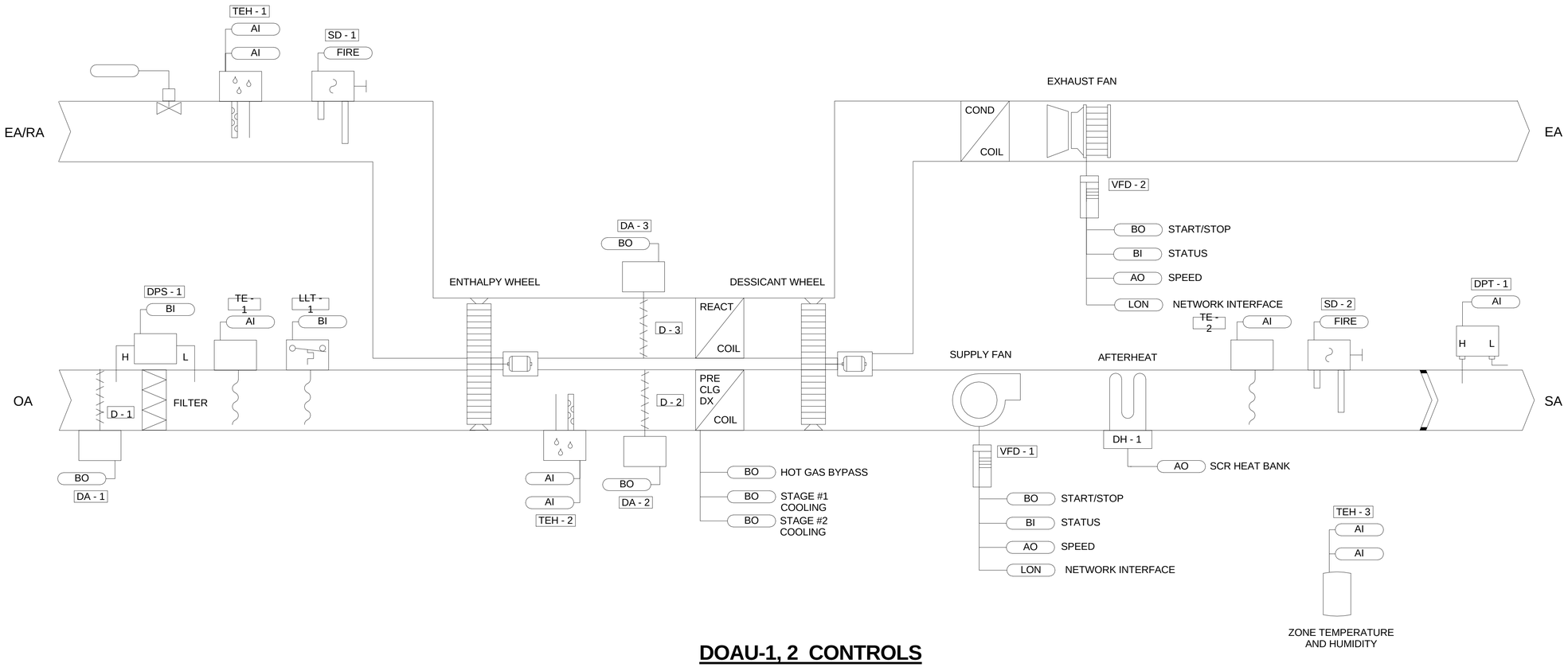
FL LIC #AA0003564

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
HVAC CONTROLS

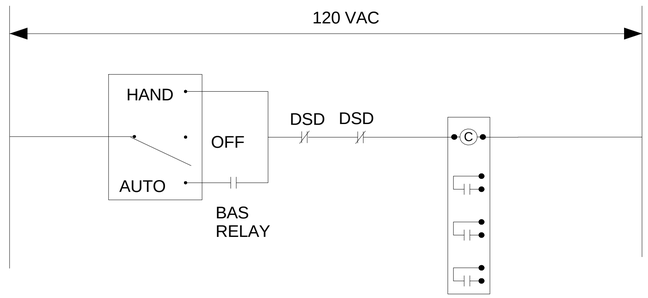
PLATE REFERENCE NUMBER
M-706
SHEET 236

74278- M-706-



DOAU-1, 2 CONTROLS

NOTE: UNIT TO BE SUPPLIED WITH FACTORY MOUNTED CONTROLS AS SHOWN. UNIT MANUFACTURER TO PROVIDE LONTALK OR BACNET INTERFACE TO BUILDING AUTOMATION SYSTEM



DOAU-1, 2 SUPPLY FAN CONTROL

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

FINAL AS-BUILT DRAWINGS

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.ictthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

APPR./ DATE / DESCRIPTION / MARK

DESIGNED BY: ICT | DRAWN BY: ICT | CHECKED BY: ICT | SUBMITTED BY: ICT
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
FILE NAME: M-707 DOAU CONTROLS
PLOT DATE: 5/1/2015 3:31:15 PM
SIZE: 22" x 34"
PLOT SCALE: 12" = 1'-0"

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
HVAC CONTROLS

PLATE REFERENCE NUMBER
M-707
SHEET 237

74278- M-707-

DOAS-1 AND 2 SEQUENCE OF OPERATION

UNIT CONTROL OVERVIEW:

THE ERU SYSTEM IS DESIGNED TO CONTROL THE SPACE DEW-POINT WHILE DELIVERING ROOM NEUTRAL AIR.

OCCUPANCY:

DURING THE OCCUPIED MODE AS DETERMINED BY THE BAS SYSTEM, THE UNIT SUPPLY FAN SHALL OPERATE CONTINUOUSLY TO PROVIDE THE REQUIRED SPACE VENTILATION AND SHALL SEQUENCE IT'S COOLING, HEATING, AND ENERGY RECOVERY WHEELS TO PROVIDE SPACE DEW-POINT CONTROL. DURING OCCUPIED MODE THE UNIT SHALL OPERATE IN ONE OF THE FOLLOWING MODES:

1. DEHUMIDIFICATION MODE: THE DEHUMIDIFICATION MODE CAN BE ACTIVATED BY THREE DIFFERENT METHODS: IF THE DEW-POINT OF THE AIR DOWNSTREAM OF THE ENTHALPY WHEEL IS GREATER THAN 54 DEGF (ADJUSTABLE), IF THE RETURN AIR DEW-POINT IS ABOVE 50 DEGF (ADJUSTABLE), OR IF THE SPACE DEW-POINT RISES ABOVE 50 DEGF (ADJUSTABLE). THERE ARE TWO STAGES OF MECHANICAL DEHUMIDIFICATION. THE SECOND STAGE SHALL ASSIST THE FIRST STAGE WHEN THE SUPPLY AIR TEMPERATURE RISES IS ABOVE 75 DEGF (ADJUSTABLE). THE COMPRESSOR SHALL OPERATE TO PRE-COOL AND PRE-DEHUMIDIFY THE AIRSTREAM, THE DESICCANT WHEEL SHALL ROTATE TO REMOVE MOISTURE FROM THE AIRSTREAM, AND THE REACTIVATION COIL SHALL HEAT THE AIRSTREAM TO PROVIDE REGENERATION TO THE DESICCANT WHEEL AND REMOVE MORE MOISTURE FROM THE AIRSTREAM.
2. COOLING MODE: THE COOLING MODE SHALL BE ACTIVATED WHEN THE DEW POINT DOWNSTREAM OF THE ENTHALPY WHEEL IS LESS THAN 55 DEGF (ADJUSTABLE) AND THE DRY BULB TEMPERATURE IS GREATER THAN 75 DEGF. THERE SHALL BE ONLY ONE STAGE OF COOLING. ANY CALL FOR DEHUMIDIFICATION SHALL OVERRIDE THE COOLING MODE INTO DEHUMIDIFICATION MODE.
3. HEATING MODE: THE ERU HEATING SHALL BE ENABLED WHEN THE DRY BULB TEMPERATURE DOWNSTREAM OF THE ENTHALPY WHEEL IS LESS THAN THE SUPPLY AIR TEMPERATURE HEATING SETPOINT OF 70 DEGF (ADJUSTABLE) OR IF THE AMBIENT AIR IS LESS THAN 60 DEGF (ADJUSTABLE). THE ELECTRIC HEATING SHALL ONLY BE ACTIVATED IF THE HEAT MODE IS ACTIVATED AND THE SUPPLY AIR TEMPERATURE IS 2 DEGF LESS THAN THE SUPPLY AIR TEMPERATURE HEATING SETPOINT OF 70 DEGF (ADJUSTABLE). ONCE ENABLED THE HEATING SHALL MODULATE 0% CAPACITY TO 100% CAPACITY TO MAINTAIN THE HEATING SUPPLY AIR TEMPERATURE OF 75 DEGF (ADJUSTABLE). HEATING AND DEHUMIDIFICATION MODES SHALL BE ABLE TO OPERATE AT THE SAME TIME IF REQUIRED.
4. OCCUPIED MODE: IN THE OCCUPIED MODE THE OUTDOOR AIR DAMPER SHALL OPEN, THE RECIRCULATION DAMPER SHALL CLOSE. IF THE OUTDOOR AIR TEMPERATURE OR DEW POINT IS HIGH ENOUGH OR THE HEATING MODE IS ACTIVE, THE ENTHALPY WHEEL SHALL OPERATE AND THE EXHAUST FAN SHALL START.
5. UNOCCUPIED MODE: WHEN THE BAS PROVIDES A SIGNAL TO INDEX THE UNIT TO THE UNOCCUPIED MODE, THE OUTDOOR AIR DAMPER SHALL CLOSE, THE RECIRCULATION DAMPER SHALL OPEN, AND THE EXHAUST FAN SHALL BE INDEXED OFF, UNLESS THE UNIT IS IN DEHUMIDIFICATION MODE. THE ENTHALPY WHEEL SHALL NOT OPERATE AND THE UNIT SHALL MAINTAIN UNOCCUPIED SPACE CONDITIONS.

THE BAS INTERFACE SHALL COMMUNICATE ALL ALARMS TO THE BUILDING SYSTEM CONTROLLER FOR ANNUNCIATION.

EMERGENCY SYSTEM SHUTDOWN:

EMERGENCY SYSTEM SHUT DOWN WILL OCCUR WHEN A CONTACTOR IS OPENED WITHIN A SMOKE DETECTOR OR OTHER SIMILAR DEVICE BY OTHERS. ONCE THE CONTACTOR IS OPENED THE UNITS 24V CIRCUIT WILL BE BROKEN THUS DEACTIVATING MOTORS, FANS AND COMPRESSORS.

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

SYSTEM POINT LIST

SYSTEM POINT DESCRIPTION	POINT TYPE					ALARMS							
DOAS-1 and 2 List *Points*	GRAPHIC	HARDW. INPUT	HARDW. OUTPUT	SOFTWARE POINT	DEFAULT VALUE	HIGH ANALOG	LOW ANALOG	BINARY	LATCH DIAGNOSTIC	SENSOR FAIL	COMM. FAIL	DIAGNOSTICS	NOTES:
BAS Communications											X		Note 1
Supply Air Temperature	X	AI				X	X			X			
Supply Fan Start/Stop	X		BO					X					
Supply Fan Status	X	BI						X					
Supply Fan Speed	X		AO										
React Coil	X		BO										
Hot Gas Bypass	X		BO										
Cooling Stage(s)	X		BO										See Schedule for required staging
Coil EAT	X	AI				X	X			X			
Coil Entering Dewpoint	X	AI				X	X			X			
Return Air Filter Dirty Status	X	BI						X					Typical Each Filter Rack
Exhaust Fan Status	X	BI											
Emergency Shutdown	X	BI						X					
Exhaust Fan Start/Stop	X		BO					X					
Exhaust Fan Speed	X		AO										
Temperature Low Limit	X	BI						X					
Supply Duct Static Pressure	X	AI			1.5" wg	X	X			X			
Afterheat	X		AO										SCR Control
Zone Temperature	X	AI				X	X			X			
Zone Humidity	X	AI				X	X			X			
Outside Air Damper	X		BO										
Return Air Damper	X		BO										
Return Air Humidity	X	AI				X	X			X			
Return Air Temperature	X	AI				X	X			X			
Outside Air Filter Dirty	X		BI					X					

GENERAL NOTES:

Note 1. Provide LonTalk or BACnet communications to BAS System

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: ICT
DRAWN BY: ICT
CHECKED BY: ICT
SUBMITTED BY: ICT
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
FILE NAME: M-708.DWG
PLOT DATE: 5/1/2015 3:11:16 PM
SIZE: 22" x 34"
PLOT SCALE: 12" = 1'-0"

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

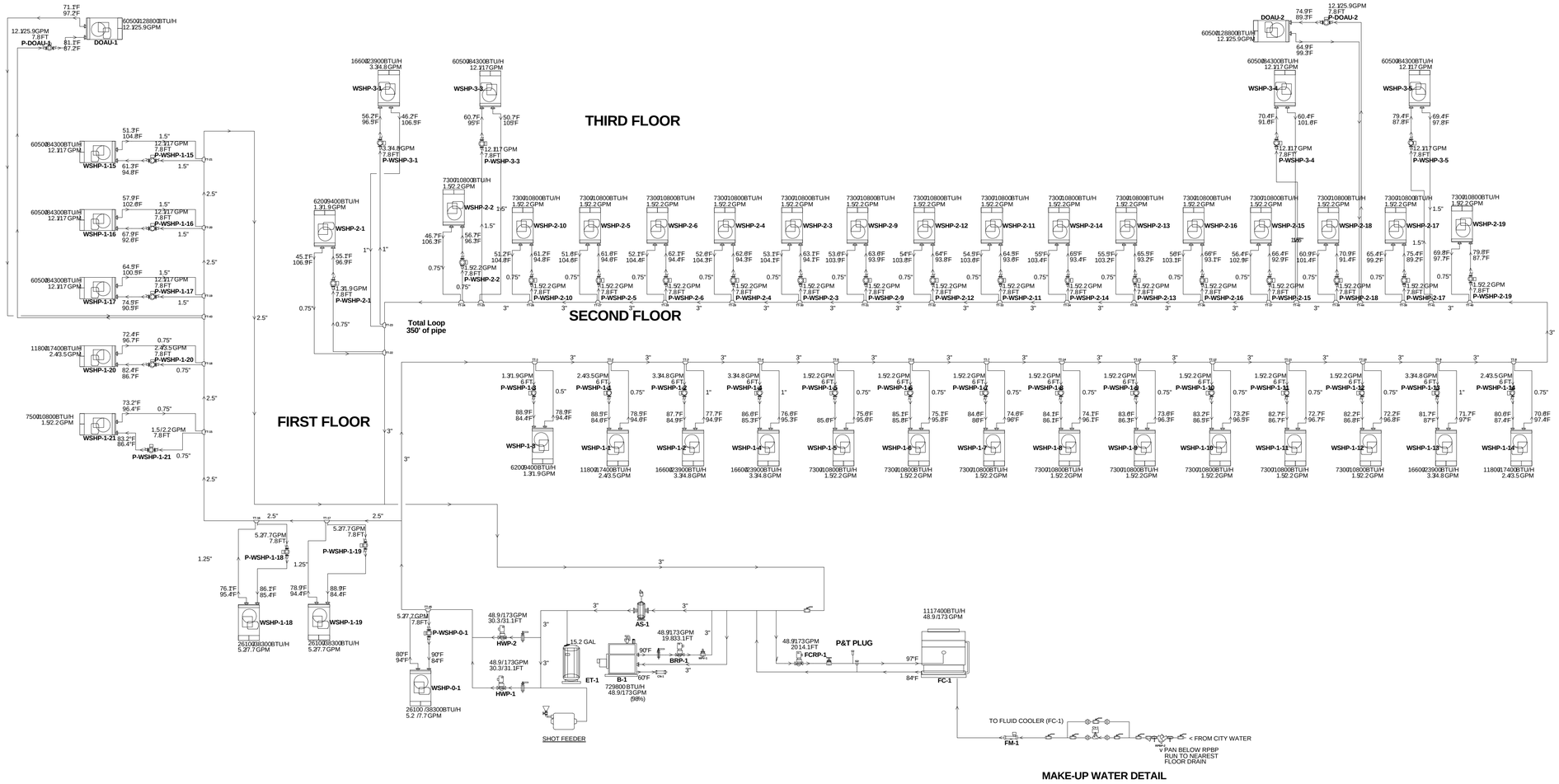
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
HVAC CONTROLS

PLATE REFERENCE NUMBER
M-708
SHEET 238

74278- M-708-



MAKE-UP WATER DETAIL

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

FINAL AS-BUILT DRAWINGS

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY:	ICT
DRAWN BY:	ICT
SUBMITTED BY:	ICT
ISSUE DATE:	JUNE 2013
SOLICITATION NO.:	W912HN-09-X-5107
CONTRACT NO.:	W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:	
FILE NAME:	HVAC CONTROLS
SIZE:	22" x 34"
PLOT SCALE:	3/32" = 1'-0"
PLOT DATE:	5/1/2015 3:31:18 PM

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC.#AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
HVAC CONTROLS

PLATE REFERENCE NUMBER
M-709
SHEET 239

74278- M-709-

CONTROL POINT SCHEDULE DRAWING INSTRUCTIONS

POINT SCHEDULE INSTRUCTIONS FOR UFGS-23 09 23 CONTRACTOR

GENERAL:

1) THE CONTRACT DRAWING POINTS SCHEDULES ASSUME THAT THE ENTIRE SEQUENCE OF OPERATION IS PERFORMED IN A SINGLE PIECE OF DDC HARDWARE. IN CASES WHERE MULTIPLE PIECES OF DDC HARDWARE ARE USED (INCLUDING CEA-709.1 NETWORKED SENSORS AND ACTUATORS), SEPARATE THE POINTS SCHEDULE INTO SEPARATE TABLES EACH WITH ITS OWN HEADER INFORMATION (SEE BELOW) SO THAT EACH PIECE OF DDC HARDWARE HAS A TABLE DEDICATED TO IT. ALL TABLES FOR A SINGLE SEQUENCE OF OPERATION SHALL BE ON SINGLE DRAWING WHICH MAY SPAN MULTIPLE SHEETS. SHOW COMMUNICATION BETWEEN MULTIPLE PIECES OF DDC HARDWARE PERFORMING A COMMON SEQUENCE THROUGH THE USE OF NVI AND NVO ENTRIES IN THE I/O COLUMN (SEE I/O COLUMN INSTRUCTION BELOW), ADDING ROWS TO THE TABLE(S) AS NEEDED.

2) ENTRIES SHOWN BRACKETED AS: <__> ARE REQUIRED ENTRIES UNDER UFGS 23 09 23. SOME ENTRIES WITHOUT BRACKETS MAY BE REQUIRED IN SOME INSTANCES AS DESCRIBED IN THESE INSTRUCTIONS.

SPACES WHERE NO ENTRY IS ORDINARILY REQUIRED CONTAINS A TILDE: "~" (EQUIVALENT TO AN "N/A" OR NULL VALUE)

WHEN AN ENTRY APPEARS INSIDE OF BRACKETS, IT IS A RECOMMENDED ENTRY THAT MUST BE VERIFIED OR CHANGED BY THE APPROPRIATE PARTY (AS INDICATED BY THE BRACKET TYPE). WHEN EDITING THE POINT SCHEDULES, DELETE THE BRACKETS AFTER VERIFYING/PROVIDING THE ENTRY. DO NOT LEAVE CELLS BLANK, INSTEAD SHOW THE TILDE ("~") TO INDICATE A NULL VALUE OR THAT NO FURTHER ENTRY IS REQUIRED.

HEADER INFORMATION INSTRUCTIONS:

1) DDC HARDWARE IDENTIFIER: SHOW THE IDENTIFIER FOR EACH PIECE OF DDC HARDWARE. MAINTAIN CONSISTENCY AND UNIQUENESS OF DDC HARDWARE IDENTIFIERS BETWEEN ALL DRAWINGS.
2) DDC HARDWARE LOCATION: SHOW THE PHYSICAL LOCATION OF THE DEVICE. LOCATION SHALL INCLUDE THE BUILDING AND ROOM NUMBER AND MAY ALSO INCLUDE FURTHER INFORMATION SUCH AS ENCLOSURE/PANEL IDENTIFICATION.
3) NODE ADDRESS: SHOW THE DOMAIN, SUBNET AND NODE ADDRESSES OF ALL DEVICES ON THE NETWORK.
4) NODE ID: SHOW THE MANUFACTURER SUPPLIED NODE ID (ALSO CALLED THE NEURONID) FOR EACH DEVICE.

"GENERAL" COLUMNS:

1) NAME COLUMN: SHOW POINT NAMES AS NEEDED AND AS INDICATED BY THE BRACKETS(<__>). THE NAME SHALL BE CONSISTENT WITH POINT NAMES SHOWN ON ALL OTHER DRAWINGS AND SHALL USE THE ESTABLISHED POINT ABBREVIATIONS.
2) SETTING COLUMN: CONFIGURE DEVICES TO USE THE SETPOINTS AND SETTINGS SHOWN. WHEN A SETPOINT OR SETTING IS NOT SHOWN, USE VALUES IN ACCORDANCE WITH THE SPECIFICATION AND SHOW THE SETPOINT OR SETTING USED. INCLUDE THE APPROPRIATE ENGINEERING UNITS FOR ENTRIES IN THIS COLUMN.
3) RANGE COLUMN: CONFIGURE DEVICES TO USE THE RANGES SHOWN. WHEN A RANGE IS NOT SHOWN, USE VALUES IN ACCORDANCE WITH THE SPECIFICATION AND SHOW THE RANGE USED. FOR SENSORS SHOW THE ACTUAL SENSOR RANGE (THIS RANGE MUST AT LEAST ENCOMPASS THE RANGE SPECIFIED IN SECTION 23 09 23). FOR DAMPER ACTUATORS SHOW THE ACTUAL RANGE OVER WHICH THE VALVE OR DAMPER IS ACTUATED. INCLUDE THE APPROPRIATE ENGINEERING UNITS FOR ENTRIES IN THIS COLUMN.
4) NCI/CP NAME COLUMN: ENTRIES IN THIS COLUMN ARE ONLY REQUIRED FOR GENERAL PURPOSE PROGRAMMABLE CONTROLLERS (GPPC) OR APPROVED APPLICATION SPECIFIC CONTROLLERS (ASC) LACKING LONWORKS NETWORK SERVICES (LNS) PLUG-INS. SHOW ALL NETWORK CONFIGURATION INPUTS (NCI) OR CONFIGURATION PROPERTIES (CP) THAT RELATE TO THE POINT. FOR CPS OF A USER-DEFINED NETWORK CONFIGURATION PARAMETER TYPE (UCPT), PROVIDE EITHER THE STANDARD NETWORK VARIABLE TYPE (SNVT) THAT RELATES TO THE CP, OR (FOR UCPTS NOT BASED ON A SNVT) PROVIDE DETAILED DESCRIPTIONS OF THE FIELDS AND UNITS OF EACH CP. EXPAND ROWS AND USE ADDITIONAL SHEETS AS REQUIRED TO PROVIDE CONFIGURATION PROPERTY DESCRIPTIONS.

5) I/O TYPE COLUMN: SHOW THE I/O TYPE FOR EACH POINT AS ONE (OR MORE) OF THE FOLLOWING:
   - *AI FOR ANALOG INPUTS
   - *AO FOR ANALOG OUTPUTS
   - *BI FOR BINARY INPUTS
   - *BO FOR BINARY OUTPUTS
   - *NVO FOR NETWORK VARIABLE OUTPUTS (BOUND TO ANOTHER PIECE OF DDC HARDWARE)
   - *NVI FOR NETWORK VARIABLE INPUTS (BOUND TO ANOTHER PIECE OF DDC HARDWARE)

   IF MORE THAN ONE PIECE OF DDC HARDWARE IS USED TO IMPLEMENT A SEQUENCE AND THE VALUE OF A PHYSICAL INPUT TO ONE IS NEEDED BY THE OTHER, SHOW THE POINT AS BOTH A HARDWARE INPUT (AI OR BI) AND A NETWORK VARIABLE OUTPUT (NVO) ON THE FIRST AND AS A NETWORK VARIABLE INPUT (NVI) TO THE OTHER DDC HARDWARE. SIMILARLY FOR OUTPUTS SHOW A NETWORK VARIABLE OUTPUT (NVO) ON ONE CONTROLLER, AND A NETWORK VARIABLE INPUT (NVI) AND HARDWARE OUPUT (AO OR BO) ON THE OTHER.

   AN ENTRY OF NVO IS ONLY REQUIRED FOR OUPUTS THAT ARE USED B ANOTHER PIECE OF DDC HARDWARE; POINTS THAT HAVE SNVT OUTPUTS ONLY FOR DISPLAY OR TRENDING AT AN LDP OR BY THE M & C SOFTWARE A RE ASSUMED TO BE NVOS AND DO NOT NEED AN NVO ENTRY IN THE I/O COLUMN.

   FOR EVERY ENTRY OF NVO OR NVI SHOW THE SNVT NAME AND TYPE IN THE SNVT NAME AND SNVT TYPE COLUMNS UNDER LDP AND M & C DISPLAY. SEE "SNVT TYPE COLUMN" INSTRUCTIONS BELOW.

6) HOA REQ'D COLUMN: FOR EACH OUTPUT WITH AN "X" IN THIS COLUMN PROVIDE A HARDWARE MANUAL OVERRIDE FOR THAT OUTPUT:
   a. THE MANUAL OVERRIDE SWITCH FOR BINARY OUTPUTS SHALL PROVIDE A HARDWARE MANUAL OVERRIDE FOR THAT OUTPUT:
   b. THE MANUAL OVERRIDE SWITCH FOR ANALOG OUTPUTS SHALL EITHER:
      i. PROVIDE FOR OVERRIDING THE OUTPUT TO 0% OR 100%
      ii. PROVIDE FOR OVERRIDING THROUGH THE RANGE OF 0% TO 100%.
   c. THE MANUAL OVERRIDE SHALL BE INTEGRATED WITH THE CONTROLLER HARDWARE OR AN EXTERNAL OVERRIDE CO-LOCATED WITH (IN THE SAME ENCLOSURE AS) THE CONTROLLER.

LDP AND M & C DISPLAY COLUMNS

1) LDP VIEW REQ'D COLUMN: PROVIDE AN LDP AND CONFIGURE THE BUILDING CONTROL NETWORK AND THE LDP TO DISPLAY POINTS MARKED WITH AND "X". SHOW THE SNVT NAME AND SNVT TYPE FOR EACH POINT SHOWN. (SEE INSTRUCTIONS FOR THE "SNVT TYPE" COLUMN)
2) M & C DISP REQ'D: AN "X" IN THIS COLUMN INDICATES THAT A SNVT FOR THIS POINT MUST BE AVAILABLE FROM THE DDC HARDWARE PERFORMNING THE SEQUENCE FOR THIS SYSTEM. PROVIDE A SNVT OUTPUT FOR THESE POINTS AND SHOW THE SNVT NAME AND SNVT TYPE. (SEE INSTRUCTIONS FOR THE "SNVT TYPE" COLUMN)
3) M & C TREND REQ'D COMLUMN: FOR ALL POINTS WITH AND "X" IN THIS COLUMN AN SNVT FOR THIS POINT SHALL BE AVAILABLE. PROVIDE A SNVT OUTPUT FOR THESE POINTS AND SHOW THE SNVT NAME AND SNVT TYPE. (SEE INSTRUCTIONS FOR THE "SNVT TYPE" COLUMN)
4) SNVT TYPE COLUMNS: WHEN A SNVT TYPE IS SHOWN ON THE POINT SCHEDULE CONTRACT DRAWING, USE THE SHOWN SNVT TYPE FOR THE PROVIDED SNVT. IF NECESSARY, A SNVT TYPE TRANSLATOR MAY BE USED TO CONVERT TO THIS SNVT TYPE. IF THE USE OF A TYPE TRANSLATOR RESULTS IN THE SHARING OF AN SNVT BETWEEN DDC HARDWARE, DOCUMENT IT ON THE POINTS SCHEDULE AS DESCRIBED IN THE "GENERAL" PORTION OF THESE INSTRUCTIONS. WHERE NO SNVT TYPE IS SHOWN, SHOW THE SNVT TYPE USED.

POINT SCHEDULE INSTRUCTIONS FOR UFGS-23 09 23 CONTRACTOR

OVERRIDE COLUMNS:

1) LDP OVRD REQ'D COLUMN: FOR EACH POINT WITH AN "X" IN THIS COLUMN, PROVIDE A SNVT INPUT FOR THE POINT BY WHICH THE VALUE OF THE POINT CAN BE OVERRIDDEN AND PROVIDE AND LDP (IF NOT ALREADY PROVIDED) AND CONFIGURE THE BUILDING CONTROL NETWORK AND THE LDP TO ALLOW AN OPERATOR TO OVERRIDE (WRITE TO) THE POINT FROM THE LDP. SHOW THE OVERRIDE INPUT SNVT NAME AND TYPE FOR EACH POINT REQUIRING AN OVERRIDE. IF THE OVERRIDE IS RELEASED BY A MEANS OTHER THAN WRITING THE "NULL VALUE" FOR THE SNVT TYPE (AS DEFINED IN THE LONMARK MASTER SNVT LIST), PROVIDE A DESCRIPTION OF HOW THE OVERRIRDE IS USED AND RELEASED.
2) M & C OVRD REQ'D COLUMN: FOR EACH POINT WITH AN "X" IN THIS COLUMN, PROVIDE AN SNVT INPUT FOR THE POINT BY WHICH VALUE OF THE POINT CAN BE OVERRIDEN AND SHOW THE SNVT NAME AND TYPE FOR EACH.

ALARMS COLUMNS:

1) ALARM CONDITION COLUMN: FOR EACH POINT WITH AN ENTRY IN THIS COLUMN PROVIDE A SNVT OUTPUT FOR THE POINT AND SHOW THE SNVT NAME AND SNVT TYPE IN THE SNVT NAME AND SNVT TYPE COLUMNS UNDER LDP AND M & C DISPLAY. SEE "SNVT TYPE" COLUMN FOR INSTRUCTIONS ABOVE.

OTHER:

1) SYSTEM RESET BUTTON (RST-BUT): IF THE "I/O TYPE" COLUMN CONTAINS "BI", THE SYSTEM SHALL BE CAPABLE OF BEING RESET VIA A LOCAL HARDWARE PUSH-BUTTON.
   IF THEERE IS AN "X" IN THE LDP OVRD REQ'D OR M & C OVRD REQ'D COLUMN, THE SYSTEM SHALL ALSO BE CAPABLE OF BEING RESET VIA SNVT INPUT (SEE INSTRUCTIONS FOR M & C OVRD REQ'D AND LDP OVRD REQ'D COLUMNS)
2) SYSTEMN OCCUPANCY (SYS-OCC): SHOW OCC, UNOCC, WUCD (WARM-UP/COOL-DOWN) IN THE RANGE COLUMN BASED ON THE SSYSTEM-SPECIFIC SEQUENCE OF OPERATIONS AND OCCUPANCY SCHEDULE.
3) MINIMUM OUTSIDE AIR (MINOA) FLOW: FOR SYSTEMS CONTROLLING TO A MINOA SETPOINT, USE THE MINOA-F-SP SHOWN WHEN AIR FLOW TO THE MINIMUM OUTSIDE AIR FLOW SETTING SHOWN AS SPECIFIED.
4) PID LOOP SETTING: SHOW ALL PID LOOP SETTING IN THE SETTINGS COLUMN, INCLUDING ENGINEERING UNITS FOR EACH SETTING. ADJUST ROW HEIGHT AS NEEDED TO SHOW ALL PID SETTINGS.
5) FILTERS: WHEN FILTER PRESSURES ARE SHOWN, INSTALL FILTER PRESSURE SWITCHES. SHOW LOADED FILTER (HIGH-LIMIT) SETPOINT FOR EACH FILTER.
6) OTHER POINTS: INSTALL SNESORS FOR MONITORING PURPOSES ONLY.

POINT SCHEDULE INSTRUCTIONS FOR UFGS-25 10 10 CONTRACTOR

1) SPACES WHERE NO ENTRY IS ORDINARILY REQUIRED CONTAINS A TILDE: "~" (EQUIVALENT TO AN "N/A" OR NULL VALUE)

2) NAME COLUMN: USE THE POINT NAMES SHOWN ON THE POINTS SCHEDULE FOR ALL GRAPHIC DISPLAYS.

3) M & C TREND REQ'D: FOR EACH "X" IN THIS COLUMN CONFIGURE THE GRAPHICAL DISPLAY FOR THIS SYSTEM TO DISPLAY THE VALUE OF THE POINT. UNLESS OTHERWISE SPECIFIED OR APPROVED, USE THE POINT NAME, AS SHOWN IN THE "NAME" COLUMN, TO LABEL THE GRAPHICAL DISPLAY.

4) M & C TREND REQ'D COLUMN: FOR ALL POINTS WITH AN "X" IN THIS COLUMN, SET UP A TREND AT THE M & C SOFTWARE AS SPECIFIED.

5) M & C OVRD REQ'D COLUMN: FOR ALL POINTS WITH AND "X" IN THIS COLUMN USE THE SNVT NAME AND TYPE SHOWN TO PROVIDE OVERRIDE CAPABILITY. CONFIGURE THE M & C SYSTEM DISPLAYS TO ALLOW AN OPERATOR TO OVERRIDE * AND RELEASE THE OVERRIDE) THESE POINTS AS SPECIFIED.

6) ALARM CONDITION COLUMN: FOR EACH POINT WITH AN ENTRY IN THIS COLUMN USE THE ALARM LIMITS SHOWN TO CONFIGURE ALARM GENERATION FOR THE POINT AT THE M & C SOFTWARE.

7) ALARM PRIORITY COLUMN: WHEN CONFIGURING THE ALARM HANDLING AT THE M & C SOFTWARE, USE THE ALARM PRIORITY SHOWN TO DETERMINE IF THE ALARM IS CRITICAL (CRIT) OR INFORMATIONAL (INFO).

8) M & C ROUTING NAME COLUMN: CONFIGURE ALARM HANDLING AT THE M & C SERVER ACCORDING TO THE ALARM ROUTING SHOWN ON THE POINTS SCHEDULE, THE ALARM ROUTING SCHEDULES AND AS SPECIFIED.

9) SYSTEM RESET BUTTON (RST-BUT): IF THERE IS AN "X" IN M & C OVRD REQ'D COLUMN, CONFIGURE M & C SOFTWARE GRAPHIC DISPLAYS TO PROVIDE SYSTEM RESET CAPABILITY.

GENERAL

1. THESE INSTRUCTIONS ON THIS SHEET AND THE CONTROL POINT SCHEDULES SHOWN AS EXAMPLES ON THIS SHEET AND THE FOLLOWING MECHANICAL CONTROL POINT SCHEDULE SHEETS SHALL BE USED TO ASSIST THE MECHANICAL CONTRACTORS CONTROL CONTRACTOR TO PREPARE THE REQUIRED CONTROL POINT SCHEDULE. IT IS THE MECHANICAL CONTRACTOR'S CONTROL CONTRACTOR RESPONSIBILITY TO COMPLETE AND PROVIDE THE REQUIRED CONTROL POINT SCHEDULES AND ANY NECESSARY CONTROL SCHEMATICS FOR THE PROJECT. SEE PROJECT CONTROL SPECIFICATIONS SECTIONS 23 09 23 AND RFP FOR ADDITIONAL DIRECTION CONCERNING THESE AND OTHER REQUIRED CONTROL DRAWINGS/DIAGRAMS.

   NOT ALL HVAC EQUIPMENT AND NOT ALL REQUIRED CONTROL POINTS MAY BE SHOWN ON THIS SHEET AND THE FOLLOWING MECHANICAL CONTROL POINTS SCHEDULE SHEETS. ENGINEER LISTED PROJECTED CONTROL POINTS NECESSARY TO MEET SEQUENCE OF OPERATIONS. SOME OF THE LISTED CONTROL POINTS ARE LISTED BUT STILL REQUIRE SCHEDULE COMPLETION PER THESE INSTRUCTIONS. CONTROLS CONTRACTOR SHALL PROVIDE ALL CONTROL POINTS REQUIRED BY SPECIFICATIONS 23 09 23 AND THE RFP NECESSARY TO MEET THE SEQUENCE OF OPERATIONS.

3. CONTACT ENGINEER FOR ELECTRONIC FILE OF THE DETAILED CONTROL POINT SCHEDULES.

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.ictthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: ICT	ISSUE DATE: JUNE 2013
DRAWN BY: ICT	SOLICITATION NO.: W912HN-09-X-S107
CHECKED BY: ICT	CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
SUBMITTED BY: ICT	CATEGORY CODE:
FILE NAME: M-710.DWG	PLOT DATE: 5/1/2015 3:31:19 PM
SIZE: 22" x 34"	PLOT SCALE:

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2013 STOA ARCHITECTS
FL LIC #AA0003564

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
HVAC CONTROLS

PLATE REFERENCE NUMBER
M-710
SHEET 240

74278- M-710-

SYMBOL	DESCRIPTION	MOUNTING HEIGHT TO CENTERLINE
	LIGHTING CONTROLS	46"
S	SINGLE POLE SWITCH-(WHITE)	46"
S_2	TWO POLE SWITCH-(WHITE)	46"
S_3	THREE-WAY SWITCH-(WHITE)	46"
S_4	FOUR WAY SWITCH-(WHITE)	46"
S_D	SINGLE POLE DIMMER SWITCH WHITE	46"
S_{D3}	THREE-WAY DIMMER SWITCH 600 WATT WHITE	46"
S_M	SINGLE POLE - COMBINATION MOTION SENSOR/LIGHT SWITCH WHITE	46"
S_{TM}	SINGLE POLE SWITCH WITH TIMER (WATT STOPPER TS-400 OR EQUAL) WHITE	46"
S_K	KEY OPERATED SWITCH WHITE	46"
S_P	SINGLE POLE SWITCH WITH PILOT LIGHT WHITE	46"
S_{LV}	LOW VOLTAGE LIGHT CONTROL STATION WHITE LCD CH6 PWHBWH	46"
M	MOTION SENSOR - LINE VOLTAGE - DUAL TECHNOLOGY TYPE	CEILING
M INFR	MOTION SENSOR - LINE VOLTAGE - INFRARED TYPE	CEILING
LVS	DAYLIGHT SENSOR - LOW VOLTAGE - NLIGHT MODEL NPP16 POWER PACK; SENSOR NRM-PC	CEILING
GTD	GENERATOR TRANSFER DEVICE (BODINE #GTD)	
HM	WALL MOUNTED MOTION SENSOR - SEE PLANS FOR TYPE	WALL

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
CATV	CABLE TELEVISION
CLG	CEILING
EWC	ELECTRIC WATER COOLER
FAR	FUSE AS RECOMMENDED
FBE	FURNISHED & INSTALLED BY ELECTRICAL CONTRACTOR
FBO	FURNISHED BY OTHERS, INSTALLED BY ELECTRICAL CONTRACTOR
GND	GROUND
UON	UNLESS OTHERWISE NOTED
WH	WATER HEATER
WP	WEATHER PROOF, NEMA 3R
NL	NIGHT LITE

SYMBOLS GENERAL NOTES:

A. ALL MOUNTING HEIGHTS GIVEN IN THE LEGEND, SCHEDULES, PLANS, AND DRAWING NOTES ARE TO THE CENTERLINE OF THE DEVICE, UNLESS OTHERWISE NOTED.

B. INSTALL ALL SWITCHES AT A CENTERLINE HEIGHT OF 46" A.F.F. UNLESS OTHERWISE NOTED. WHERE SWITCHES OR RECEPTACLES ARE MOUNTED ABOVE CASEWORK OR MILLWORK, LOCATE AT A HEIGHT OF 3'-8" MAX. ABOVE FINISH FLOOR OR 3" ABOVE BACKSPLASH TO CENTERLINE.

C. WHERE COVERPLATES CONFLICT WITH CASEWORK OR MILLWORK, SLIGHTLY ADJUST THE MOUNTING HEIGHTS OF THE WIRING DEVICES TO MAKE THE COVERPLATES CLEAR THE COUNTERTOP OR BACKSPLASH BY 1/2".

D. ADDITIONAL SYMBOLS MAY BE SHOWN OR DENOTED ON OTHER SHEETS.

E. ALL SYMBOLS, NOTES, AND ABBREVIATIONS SHOWN ON THE LEGEND ARE NOT NECESSARILY USED IN THIS SET OF CONTRACT DOCUMENTS.

F. NUMERICAL SUBSCRIPT ADJACENT TO DEVICE FIXTURE, EQUIPMENT OR JUNCTION BOX SYMBOL ON THE DRAWINGS DENOTES THE PANELBOARD CIRCUIT NUMBER TO WHICH DEVICE, FIXTURE, EQUIPMENT OR WIRING IN JUNCTION BOX IS CONNECTED.

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION	MOUNTING HEIGHT TO CENTERLINE UON
	CONDUIT CONCEALED IN FLOOR, WALL OR CEILING	
	CONDUIT CONCEALED BELOW GRADE ON SITE PLAN	
	CONDUIT EXPOSED ON WALL OR CEILING	
	HOMERUN CONDUIT, 2 CIRCUIT	
	CONDUIT TURNING UP	
	CONDUIT TURNING DOWN	
	HOMERUN, INDICATES CIRCUIT TO CONNECT DEVICE	
	UNDERGROUND DUCTBANK, SEE DUCT BANK SYMBOL DETAIL, SHEET E-501	
	SURFACE MOUNTED WALL LIGHT FIXTURE	
	SURFACE MOUNTED EMERGENCY WALL LIGHT FIXTURE WITH INTEGRAL 90-MINUTE BATTERY BACK-UP	
	RECESSED CAN LIGHT FIXTURE	
	RECESSED EMERGENCY CAN LIGHT FIXTURE WITH INTEGRAL 90-MINUTE BATTERY BACK-UP	
	SURFACE/SUSPENDED MOUNTED LIGHT FIXTURE	
	SURFACE/SUSPENDED MOUNTED EMERGENCY LIGHT FIXTURE WITH INTEGRAL 90-MINUTE BATTERY BACK-UP	
	RECESSED LIGHT FIXTURE ON NORMAL BRANCH CIRCUIT	
	RECESSED EMERGENCY LIGHT FIXTURE WITH INTEGRAL 90-MINUTE BATTERY BACK-UP	
	GROUND BAR	AS NOTED
	WALL BRACKET EMERGENCY FIXTURE WITH INTEGRAL 90-MINUTE BATTERY BACK-UP	
	EXIT LIGHT (PROVIDE INTEGRAL 90-MINUTE BATTERY BACK-UP)	
"S"	LIGHTING FIXTURE TYPE DESIGNATION-SEE LIGHTING FIXTURE SCHEDULE	
S	SINGLE POLE SWITCH-(IVORY)	46"
S_2	TWO POLE SWITCH-(IVORY)	46"
S_3	THREE-WAY SWITCH-(IVORY)	46"
S_4	FOUR WAY SWITCH-(IVORY)	46"
S_D	SINGLE POLE DIMMER SWITCH	46"
S_{D3}	THREE-WAY DIMMER SWITCH	46"
S_L	LOW VOLTAGE SWTICH	46"
S_T	THERMAL MOTOR SWITCH-(FBE)	
S_{TWP}	THERMAL MOTOR SWITCH-(FBE), WEATHERPROOF, NEMA 3R	
S_K	KEY OPERATED SWITCH	46"
S_P	SINGLE POLE SWITCH WITH PILOT LIGHT	46"
S_{WP}	SINGLE POLE SWITCH, WEATHERPROOF	46"
S_M	SINGLE POLE COMBINATION WITH/ OCCUPANCY SENSOR, HUBBEL MODEL NO. LH-MT-S1 OR APPROVED EQUAL	46"
M	MOTION DETECTOR, HUBBEL MODEL NO. OMNI-DT2000 OR APPROVED EQUAL.	CEILING
PP	POWER PACK FOR MOTION DETECTOR, HUBBEL MODEL NO. UVPP OR APPROVED EQUAL.	
	DUAL LEVEL SWITCHING	
STS	LIGHTING AUTOMATIC TRANSFER SWITCH RELAY - LIGHTGUARD COMPANY TYPE 'LIGHTSTAR' OR APPROVED EQUAL.	
S_{OC}	DUAL LEVEL SWITCHING COMBINATION WITH/OCCUPANCY SENSOR	46"
VR	VISITOR PRESENCE WARNING LIGHT - RED STROBE, FEDERAL SIGNAL LP3M-120V OR APPROVED EQUAL	
	COMBINATION MOTOR STARTER DISCONNECT	
	DISCONNECT SWITCH, NON-FUSIBLE	
	DISCONNECT SWITCH, FUSIBLE	
	MOTOR CONNECTION WITH APPROXIMATE HORSE-POWER SHOWN	
HH	HANDHOLE, QUAZITE TYPE. SIZE AS REQUIRED FOR CONDUIT ENTRANCES.	
MH	MANHOLE	
SV	SOLENOID VALVE	
PE	PHOTO-ELECTRIC SWITCH	
TM	ON-OFF TIME CLOCK	
T	TRANSFORMER	
WH	WATER HEATER	
J	JUNCTION BOX	
	PANELBOARD	
	ENCLOSED CIRCUIT BREAKER	
	ABOVE COUNTER, 120V DUPLEX RECEPTACLE (IVORY)	48" U.O.N.
GFI	ABOVE COUNTER, 120V DUPLEX RECEPTACLE, GROUND FAULT INTERRUPTING	48" U.O.N.
	SINGLE RECEPTACLE, AMPERAGE, VOLTAGE, NEMA CONFIGURATION AS REQUIRED BY EQUIP. SUPPLIER OR AS NOTED	18"
C	120V SINGLE RECEPTACLE FOR CLOCK	84"
DC	DC RECEPTACLE	48"
	120V DUPLEX RECEPTACLE (IVORY)	18"
TV	120V DUPLEX RECEPTACLE FOR TV POWER (IVORY)	84"
IG	120V DUPLEX RECEPTACLE, ISOLATED GROUNDING	18"
WP	120V WEATHERPROOF DUPLEX RECEPTACLE	18"
GFI	120V DUPLEX RECEPTACLE, GROUND FAULT INTERRUPTING	18"
IG	120V QUADRAPLEX RECEPTACLE (IVORY)	18"
IG	120V QUADRAPLEX RECEPTACLE, ISOLATED GROUNDING	18"
	120V FLOOR BOX - REFERENCE DETAIL ON SHEET E501	FLOOR BOX
WP GFI	120V DUPLEX RECEPTACLE, GROUND FAULT INTERRUPTING IN WEATHERPROOF ENCLOSURE W/HINGED COVER.	18"
M	120V CONNECTION TO MOTORIZED DAMPER	
FSD	120V CONNECTION TO FIRE SMOKE DAMPER	

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ABV	ABOVE COUNTER
ABC	ABOVE CEILING
CLG	CEILING
E.O.	ELECTRICALLY OPERATED
FBE	FURNISHED & INSTALLED BY ELECTRICAL CONTRACTOR
FBO	FURNISHED BY OTHERS, INSTALLED BY ELECTRICAL CONTRACTOR
GFI	GROUND FAULT INTERRUPTING
GND	GROUND
IDS	INTRUSION DETECTION SYSTEM
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
WP	WEATHER PROOF, NEMA 3R
XFMR	TRANSFORMER
E	EMERGENCY POWER

LIGHTING FIXTURE SCHEDULE

Type Mark	Manufacturer	Model	Lamp	Mount	Description
A	LITHONIA	2AV-G-2-28T5-MDR-MVOLT-GEB10PS	2-28 T5	RECESSED	DIRECT/INDIRECT 2' X 4'
AE	LITHONIA	2AV-G-2-28T5-MDR-MVOLT-GEB10PS-EL14	2-28 T5	RECESSED	DIRECT/INDIRECT 2' X 4' W/ EMERGENCY BALLAST
AD	LITHONIA	2AV-G-2-28T5-MDR-MVOLT-ECO10	2-28 T5	RECESSED	DIRECT/INDIRECT 2' X 4' DIMMABLE
ADE	LITHONIA	2AV-G-2-28T5-MDR-MVOLT-ECO10-EL14	2-28 T5	RECESSED	DIRECT/INDIRECT 2' X 4' DIMMABLE W/ EMERGENCY BALLAST
B	LITHONIA	2SP5G-228T5-A12-MVOLT-GEB10PS-LP841	2-28W T5	RECESSED	2' X 4' LAY-IN
BE	LITHONIA	2SP5G-228T5-A12-MVOLT-GEB10PS-LP841-EL14	2-28 T5	RECESSED	2' X 4' LAY-IN W/ EMERGENCY BALLAST
C	LITHONIA	LF6N-2/18-F602AZ-MVOLT	2-18W DTT	RECESSED	6" HORIZONTAL CFL DOWNLIGHT
CE	LITHONIA	LF6N-2/18-F602AZ-MVOLT-ELR	2-18W DTT	RECESSED	6" HORIZONTAL CFL DOWNLIGHT W/ EMERGENCY BALLAST
CD	LITHONIA	LF6N-2/18-F602AZ-MVOLT-ADEZ	2-18W DTT	RECESSED	6" HORIZONTAL CFL DOWNLIGHT DIMMABLE
D	LITHONIA	UNS-2-28T5-MVOLT-GEB10PS-WG2UN	2-28 T5	SURFACE	1' X 4' INDUSTRIAL STRIP WITH W/ WIREGUARD
DE	LITHONIA	UNS-2-28T5-MVOLT-GEB10PS-EL-WG2UN	2-28 T5	SURFACE	1' X 4' INDUSTRIAL STRIP W/ EMERGENCY BALLAST W/ WIREGUARD
DEA	KENALL	R8-48-2-28-IS-1-DV-EL	2-28 T5	SURFACE	VANDAL RESISTENT
F	LITHONIA	2SP5F-228T5-A12-MVOLT-GEB10PS-LP841	2-28 T5	RECESSED	2' X 4' LAY-IN FLANGED
FE	LITHONIA	2SP5F-228T5-A12-MVOLT-GEB10PS-LP841-EL14	2-28 T5	RECESSED	2' X 4' LAY-IN FLANGED W/ EMERGENCY BALLAST
G	LITHONIA	DOM6-600L-120-DL64	LED	RECESSED	LED SHOWER LIGHT
H	LITHONIA	M328T5-A-12-MVOLT-GEB10PS	3-28 T5	SURFACE	1' X 4' STRIP
J	KENALL	MLRS12-48-T-CIA-2-28-IS-1-DV-EL	2-28 T5	WALL	4' WALL BRACKET W/ EMERGENCY BALLAST
K	LITHONIA	TWF1-100M-120-HEB	100W MH	WALL	EXTERIOR WALL PACK
P	PEERLESS	CRW7-2-28T5-WHR-4-120-GEB10	2-28 T5	WALL	4' WALL DIRECT/INDIRECT
R	KENALL	RHL7-24-PIA-2-14-IS-1-DV	2-14 T5	WALL	2' UTILITY LIGHT
V	LITHONIA	WS-2-28T5-A12-MVOLT-GEB10PS	2-28 T5	WALL	4' WALL BRACKET VANITY
WE	LITHONIA	TWF1-100M-120-HEB-2ELED	100W MH	WALL	EXTERIOR WALL PACK W/ EMERGENCY BALLAST

COMBINATION DISCONNECT/STARTER SCHEDULE

(FURNISHED BY ELECTRICAL CONTRACTOR)

ITEM SERVED	H.P.	VOLT/ PHASE	NEMA SIZE	NEMA ENCL	CONTROL ITEMS ON STARTER
VF-1-1	1/4	208/3	0	1	H-O-A, 208/120V CPT, RED "ON" PILOT LIGHT, 2 NO & 2 NC AUX CONTACTS
VF-1-2	1/4	208/3	0	1	H-O-A, 208/120V CPT, RED "ON" PILOT LIGHT, 2 NO & 2 NC AUX CONTACTS

LIGHTING CONTACTOR SCHEDULE

I.D.	CONTACT AMPERE RATING	NO. OF POLES	ENCLOSURE	COIL VOLTAGE	REMARKS
LC1	30	6	NEMA 1	120	PHOTOCELL ON/ TIME CLOCK OFF

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

1 E-001 ELECTRICAL LEGEND
NOT TO SCALE

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.
1	REVISION #1	8/5/13	

DESIGNED BY: TSK
DRAWN BY: PS
CHECKED BY: KJ
SUBMITTED BY: TSK
FILE NAME: E001.DGN
SIZE: 22" x 34"
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-S107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
PLOT SCALE: 1" = 10'-0"
PLOT DATE: 5/1/2015 10:25:26 AM

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS
FL LIC #AA0003564

FINAL AS-BUILT DRAWINGS

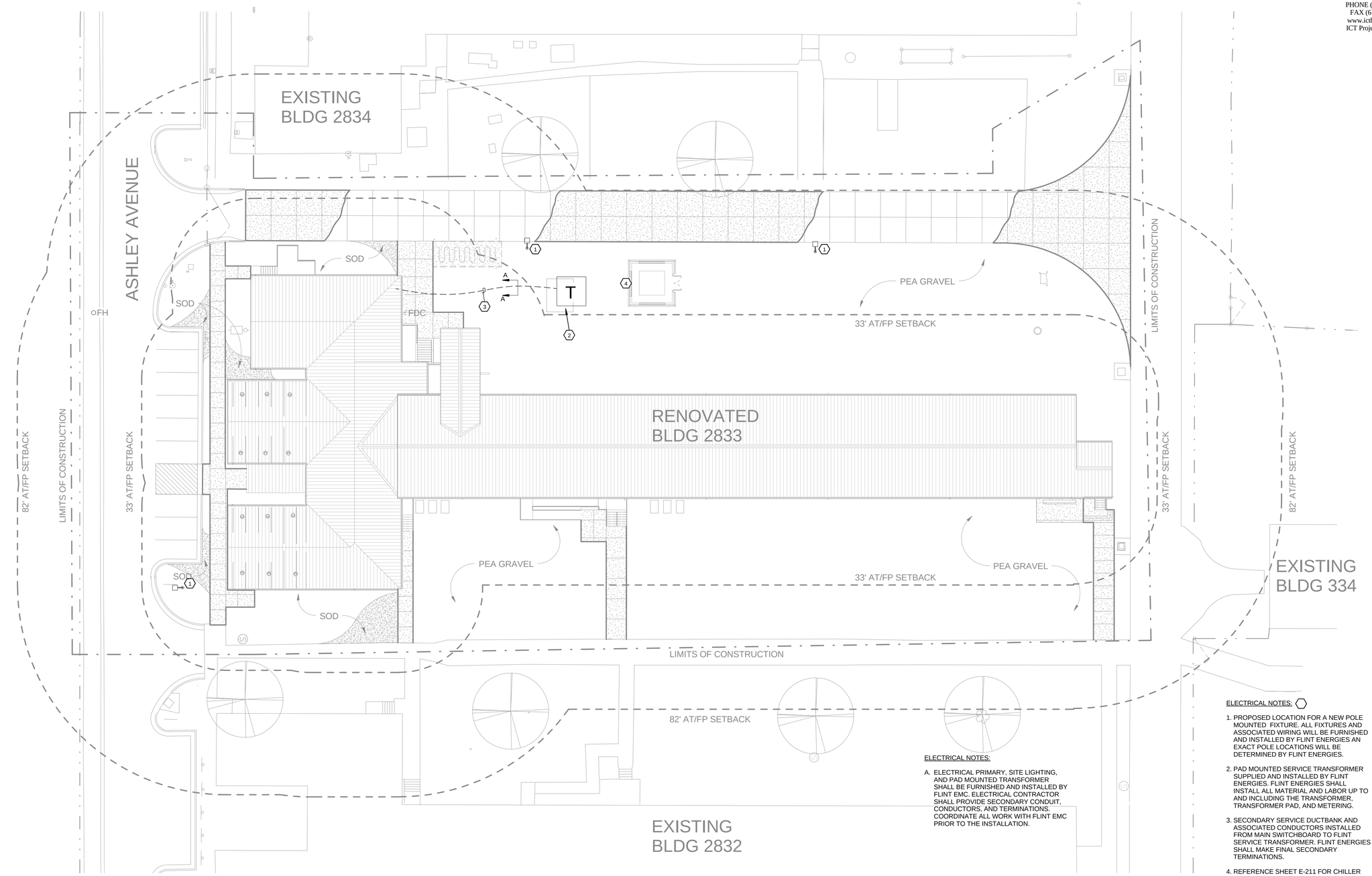
RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
LEGEND AND ABBREVIATIONS

PLATE REFERENCE NUMBER
E-001
SHEET 241

74278- E-001-

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318



ELECTRICAL NOTES:

A. ELECTRICAL PRIMARY, SITE LIGHTING, AND PAD MOUNTED TRANSFORMER SHALL BE FURNISHED AND INSTALLED BY FLINT EMC. ELECTRICAL CONTRACTOR SHALL PROVIDE SECONDARY CONDUIT, CONDUCTORS, AND TERMINATIONS. COORDINATE ALL WORK WITH FLINT EMC PRIOR TO THE INSTALLATION.

ELECTRICAL NOTES:

1. PROPOSED LOCATION FOR A NEW POLE MOUNTED FIXTURE. ALL FIXTURES AND ASSOCIATED WIRING WILL BE FURNISHED AND INSTALLED BY FLINT ENERGIES AN EXACT POLE LOCATIONS WILL BE DETERMINED BY FLINT ENERGIES.
2. PAD MOUNTED SERVICE TRANSFORMER SUPPLIED AND INSTALLED BY FLINT ENERGIES. FLINT ENERGIES SHALL INSTALL ALL MATERIAL AND LABOR UP TO AND INCLUDING THE TRANSFORMER, TRANSFORMER PAD, AND METERING.
3. SECONDARY SERVICE DUCTBANK AND ASSOCIATED CONDUCTORS INSTALLED FROM MAIN SWITCHBOARD TO FLINT SERVICE TRANSFORMER. FLINT ENERGIES SHALL MAKE FINAL SECONDARY TERMINATIONS.
4. REFERENCE SHEET E-211 FOR CHILLER CONNECTIONS.

NORTH

1 / E-002 Electrical Site

4' 2' 0' 4' 8'

SCALE: 1" = 20'-0"

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: TSK	DRAWN BY: PS	CHECKED BY: KJ	ISSUE DATE: JUNE 2013
SUBMITTED BY: TSK			SOLICITATION NO.: W912HN-09-X-S107
FILE NAME: E002.DGN			CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
SIZE: 22" x 34"		PLOT SCALE: 1" = 20'-0"	CATEGORY CODE:
			PLOT DATE: 5/1/2015 10:25:30 AM

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

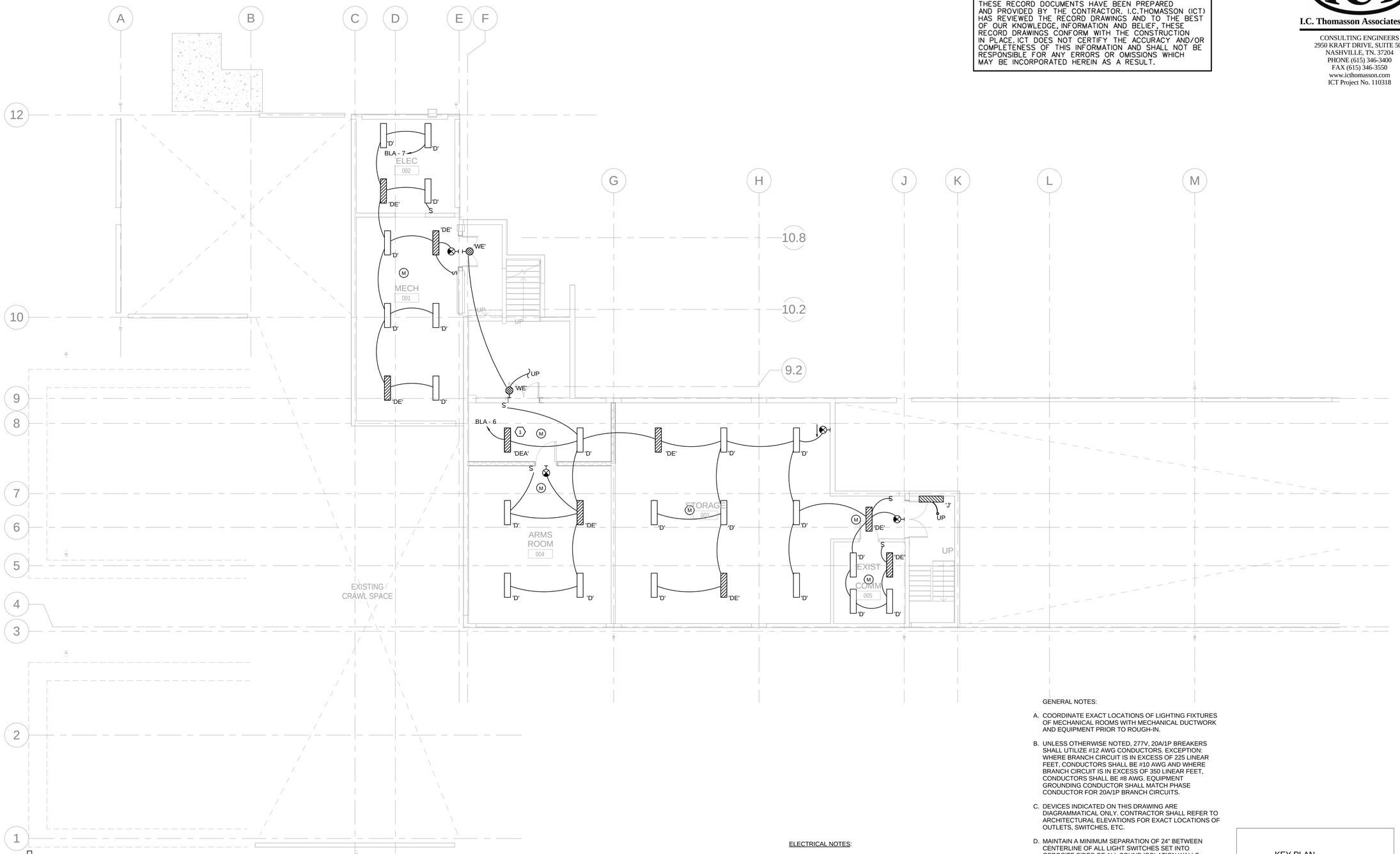
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
ELECTRICAL SITE PLAN

PLATE REFERENCE NUMBER
E-002
SHEET 242

74278- E-002-



THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

I.C. Thomasson Associates, Inc.

CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.ictthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.
1	REVISION #5 MODIFICATION TO BASEMENT ARMS ROOM AND NEW DOOR ADDED BETWEEN RM. 112 AND 113	5/16/14	

DESIGNED BY: TSK	ISSUE DATE: JUNE 2013		
DRAWN BY: PS	CHECKED BY: TSK	SOLICITATION NO.: W912HN-09-X-S107	
SUBMITTED BY: KJ		CONTRACT NO.: W912HN-10-D-0049 T.O. 0007	
FILE NAME: E-101.DWG		CATEGORY CODE:	
SIZE: 22" x 34"	PLOT SCALE: As indicated	PLOT DATE: 5/1/2015 10:25:32 AM	

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS
FL LIC #AA0003564

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
LIGHTING - BASEMENT FLOOR PLAN

PLATE REFERENCE NUMBER
E-101
SHEET 243

NORTH

1
E-101

LIGHTING - BASEMENT FLOOR PLAN

4' 2' 0' 4' 8'
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

A. COORDINATE EXACT LOCATIONS OF LIGHTING FIXTURES OF MECHANICAL ROOMS WITH MECHANICAL DUCTWORK AND EQUIPMENT PRIOR TO ROUGH-IN.

B. UNLESS OTHERWISE NOTED, 277V, 20A/1P BREAKERS SHALL UTILIZE #12 AWG CONDUCTORS. EXCEPTION: WHERE BRANCH CIRCUIT IS IN EXCESS OF 225 LINEAR FEET, CONDUCTORS SHALL BE #10 AWG AND WHERE BRANCH CIRCUIT IS IN EXCESS OF 350 LINEAR FEET, CONDUCTORS SHALL BE #8 AWG. EQUIPMENT GROUNDING CONDUCTOR SHALL MATCH PHASE CONDUCTOR FOR 20A/1P BRANCH CIRCUITS.

C. DEVICES INDICATED ON THIS DRAWING ARE DIAGRAMMATICAL ONLY. CONTRACTOR SHALL REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATIONS OF OUTLETS, SWITCHES, ETC.

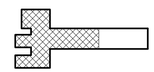
D. MAINTAIN A MINIMUM SEPARATION OF 24" BETWEEN CENTERLINE OF ALL LIGHT SWITCHES SET INTO OPPOSITE SIDES OF ALL SOUND ISOLATION WALLS. WHERE ABOVE NOTED CONDITION OCCURS AND REQUIRES A CONDUIT CONNECTION BETWEEN BOXES, UTILIZE FLEXIBLE TYPE CONDUIT.

E. MULTIWIRE BRANCH CIRCUITS SHALL BE INSTALLED PER ARTICLE 210.4 OF THE NEC. EACH MULTIWIRE CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES.

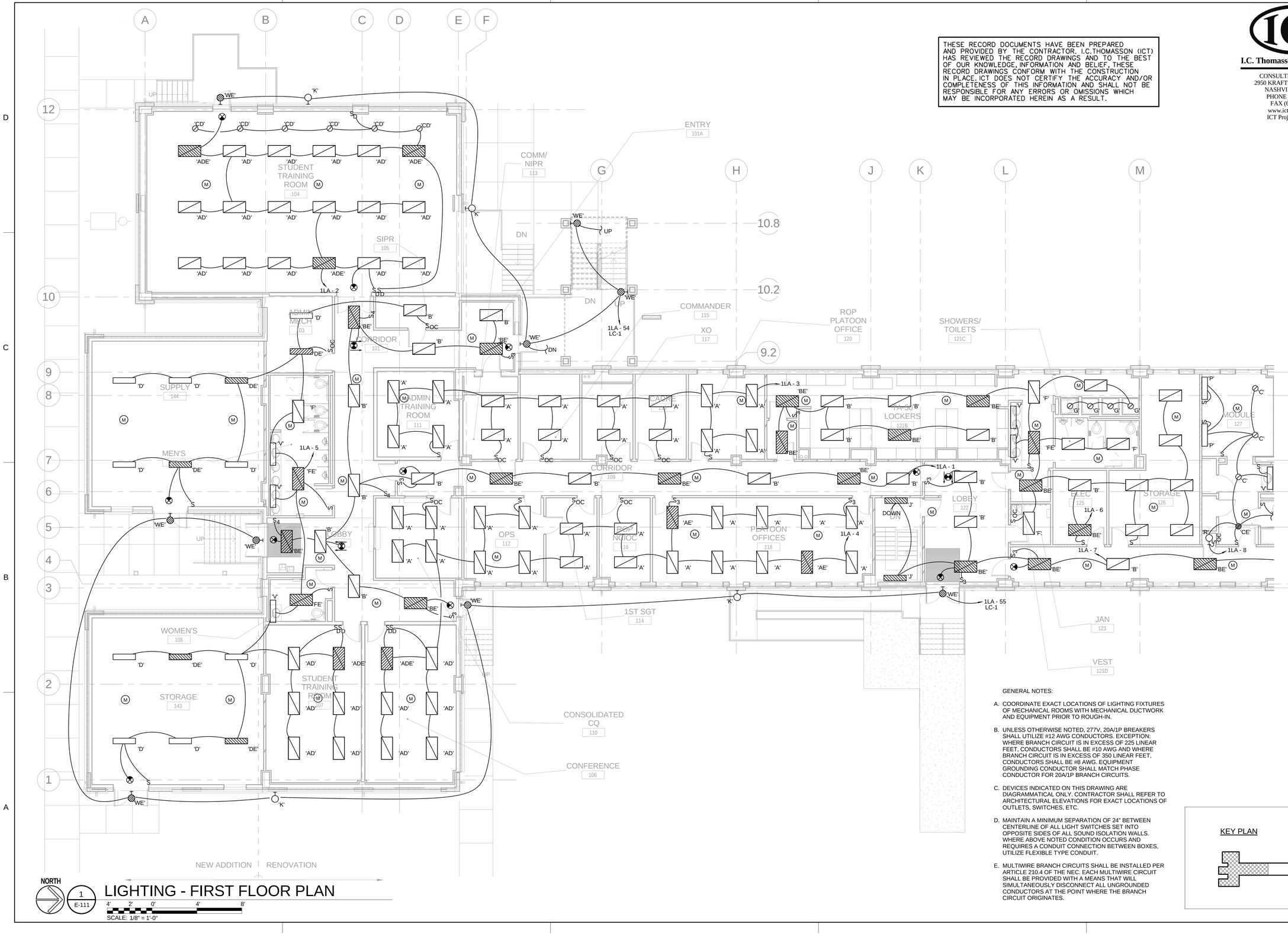
ELECTRICAL NOTES:

1. FIXTURE SHALL BE UNSWITCHED.

KEY PLAN



74278- E-101-



THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

GENERAL NOTES:

A. COORDINATE EXACT LOCATIONS OF LIGHTING FIXTURES OF MECHANICAL ROOMS WITH MECHANICAL DUCTWORK AND EQUIPMENT PRIOR TO ROUGH-IN.

B. UNLESS OTHERWISE NOTED, 277V, 20A/1P BREAKERS SHALL UTILIZE #12 AWG CONDUCTORS. EXCEPTION: WHERE BRANCH CIRCUIT IS IN EXCESS OF 225 LINEAR FEET, CONDUCTORS SHALL BE #10 AWG AND WHERE BRANCH CIRCUIT IS IN EXCESS OF 350 LINEAR FEET, CONDUCTORS SHALL BE #8 AWG. EQUIPMENT GROUNDING CONDUCTOR SHALL MATCH PHASE CONDUCTOR FOR 20A/1P BRANCH CIRCUITS.

C. DEVICES INDICATED ON THIS DRAWING ARE DIAGRAMMATICAL ONLY. CONTRACTOR SHALL REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATIONS OF OUTLETS, SWITCHES, ETC.

D. MAINTAIN A MINIMUM SEPARATION OF 24" BETWEEN CENTERLINE OF ALL LIGHT SWITCHES SET INTO OPPOSITE SIDES OF ALL SOUND ISOLATION WALLS. WHERE ABOVE NOTED CONDITION OCCURS AND REQUIRES A CONDUIT CONNECTION BETWEEN BOXES, UTILIZE FLEXIBLE TYPE CONDUIT.

E. MULTIWIRE BRANCH CIRCUITS SHALL BE INSTALLED PER ARTICLE 210.4 OF THE NEC. EACH MULTIWIRE CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES.

KEY PLAN

NORTH

1 / E-111

LIGHTING - FIRST FLOOR PLAN

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

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.
1	REVISION #1	8/5/13	

ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-S107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
PLOT DATE: 5/1/2015 10:25:35 AM

DESIGNED BY: TSK
DRAWN BY: PS
CHECKED BY: KJ
SUBMITTED BY: TSK
FILE NAME: E-111.dwg
PLOT SCALE: As indicated
SIZE: 22" x 34"

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

FINAL AS-BUILT DRAWINGS

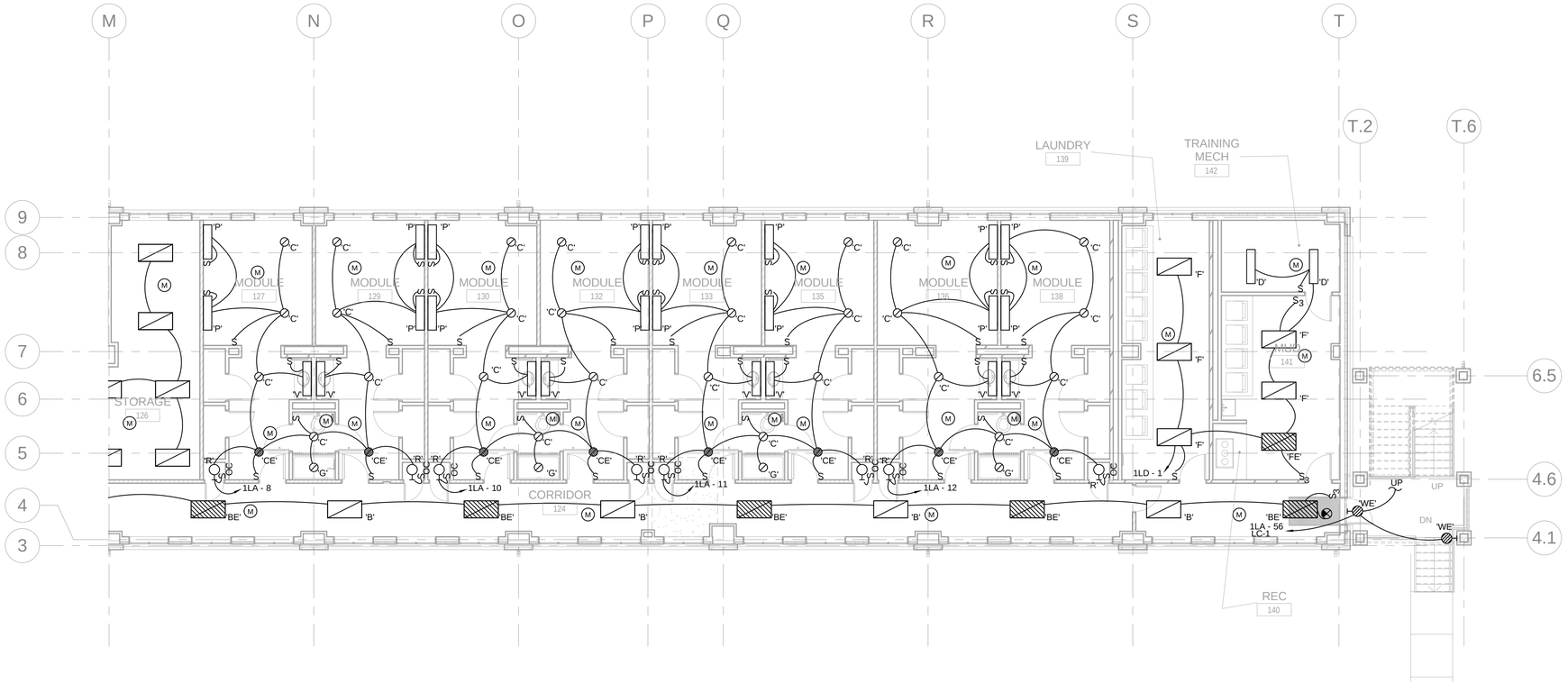
RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
LIGHTING - FIRST FLOOR PLAN

PLATE REFERENCE NUMBER
E-111
SHEET 244

74278- E-111-

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318



GENERAL NOTES:

A. COORDINATE EXACT LOCATIONS OF LIGHTING FIXTURES OF MECHANICAL ROOMS WITH MECHANICAL DUCTWORK AND EQUIPMENT PRIOR TO ROUGH-IN.

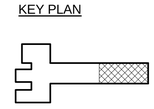
B. UNLESS OTHERWISE NOTED, 277V, 20A/1P BREAKERS SHALL UTILIZE #12 AWG CONDUCTORS. EXCEPTION: WHERE BRANCH CIRCUIT IS IN EXCESS OF 225 LINEAR FEET, CONDUCTORS SHALL BE #10 AWG AND WHERE BRANCH CIRCUIT IS IN EXCESS OF 350 LINEAR FEET, CONDUCTORS SHALL BE #8 AWG. EQUIPMENT GROUNDING CONDUCTOR SHALL MATCH PHASE CONDUCTOR FOR 20A/1P BRANCH CIRCUITS.

C. DEVICES INDICATED ON THIS DRAWING ARE DIAGRAMMATICAL ONLY. CONTRACTOR SHALL REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATIONS OF OUTLETS, SWITCHES, ETC.

D. MAINTAIN A MINIMUM SEPARATION OF 24" BETWEEN CENTERLINE OF ALL LIGHT SWITCHES SET INTO OPPOSITE SIDES OF ALL SOUND ISOLATION WALLS. WHERE ABOVE NOTED CONDITION OCCURS AND REQUIRES A CONDUIT CONNECTION BETWEEN BOXES, UTILIZE FLEXIBLE TYPE CONDUIT.

E. MULTIWIRE BRANCH CIRCUITS SHALL BE INSTALLED PER ARTICLE 210.4 OF THE NEC. EACH MULTIWIRE CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES.

KEY PLAN



NORTH

1 / E-112

LIGHTING - FIRST FLOOR PLAN

4' 2' 0' 4' 8'

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

FINAL AS-BUILT DRAWINGS

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: TSK
DRAWN BY: PS
CHECKED BY: KJ
SUBMITTED BY: TSK
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
FILE NAME: E-112.DGN
PLOT DATE: 5/1/2015 10:25:39 AM
SIZE: 22" x 34"
PLOT SCALE: As indicated

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
LIGHTING - FIRST FLOOR PLAN

PLATE REFERENCE NUMBER
E-112
SHEET 245

74278- E-112-

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.ictthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

JANITOR 201
RECYCLING 204B
CORRIDOR 204
STORAGE 202
STORAGE 203
CORRIDOR 205
MODULE 206
MODULE 208
MODULE 209
MODULE 211
MODULE 212
MODULE 214
MODULE 215
MODULE 217
MODULE 218
10.8
10.2
9.2
2LA - 67,68
2LA - 54
2LA - 55
2LA - 56
2LA - 57
2LA - 58

GENERAL NOTES:

A. COORDINATE EXACT LOCATIONS OF LIGHTING FIXTURES OF MECHANICAL ROOMS WITH MECHANICAL DUCTWORK AND EQUIPMENT PRIOR TO ROUGH-IN.

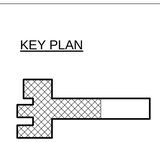
B. UNLESS OTHERWISE NOTED, 277V, 20A/1P BREAKERS SHALL UTILIZE #12 AWG CONDUCTORS. EXCEPTION: WHERE BRANCH CIRCUIT IS IN EXCESS OF 225 LINEAR FEET, CONDUCTORS SHALL BE #10 AWG AND WHERE BRANCH CIRCUIT IS IN EXCESS OF 350 LINEAR FEET, CONDUCTORS SHALL BE #8 AWG. EQUIPMENT GROUNDING CONDUCTOR SHALL MATCH PHASE CONDUCTOR FOR 20A/1P BRANCH CIRCUITS.

C. DEVICES INDICATED ON THIS DRAWING ARE DIAGRAMMATICAL ONLY. CONTRACTOR SHALL REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATIONS OF OUTLETS, SWITCHES, ETC.

D. MAINTAIN A MINIMUM SEPARATION OF 24" BETWEEN CENTERLINE OF ALL LIGHT SWITCHES SET INTO OPPOSITE SIDES OF ALL SOUND ISOLATION WALLS. WHERE ABOVE NOTED CONDITION OCCURS AND REQUIRES A CONDUIT CONNECTION BETWEEN BOXES, UTILIZE FLEXIBLE TYPE CONDUIT.

E. MULTIWIRE BRANCH CIRCUITS SHALL BE INSTALLED PER ARTICLE 210.4 OF THE NEC. EACH MULTIWIRE CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES.

KEY PLAN



NORTH
1 / E-121

LIGHTING - SECOND FLOOR PLAN

4' 2' 0' 4' 8'
SCALE: 1/8" = 1'-0"

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
LIGHTING - SECOND FLOOR PLAN

PLATE REFERENCE NUMBER
E-121
SHEET 246

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

DESIGNED BY: TSK
DRAWN BY: PS
CHECKED BY: KJ
SUBMITTED BY: TSK
FILE NAME: E121_2833_2nd_FLOOR_LIGHTING.dwg
SIZE: 22" x 34"
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D-0049 T.O. 0007
CATEGORY CODE:
PLOT SCALE: As indicated
PLOT DATE: 5/1/2015 10:25:43 AM

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS

FL LIC #AA0003564

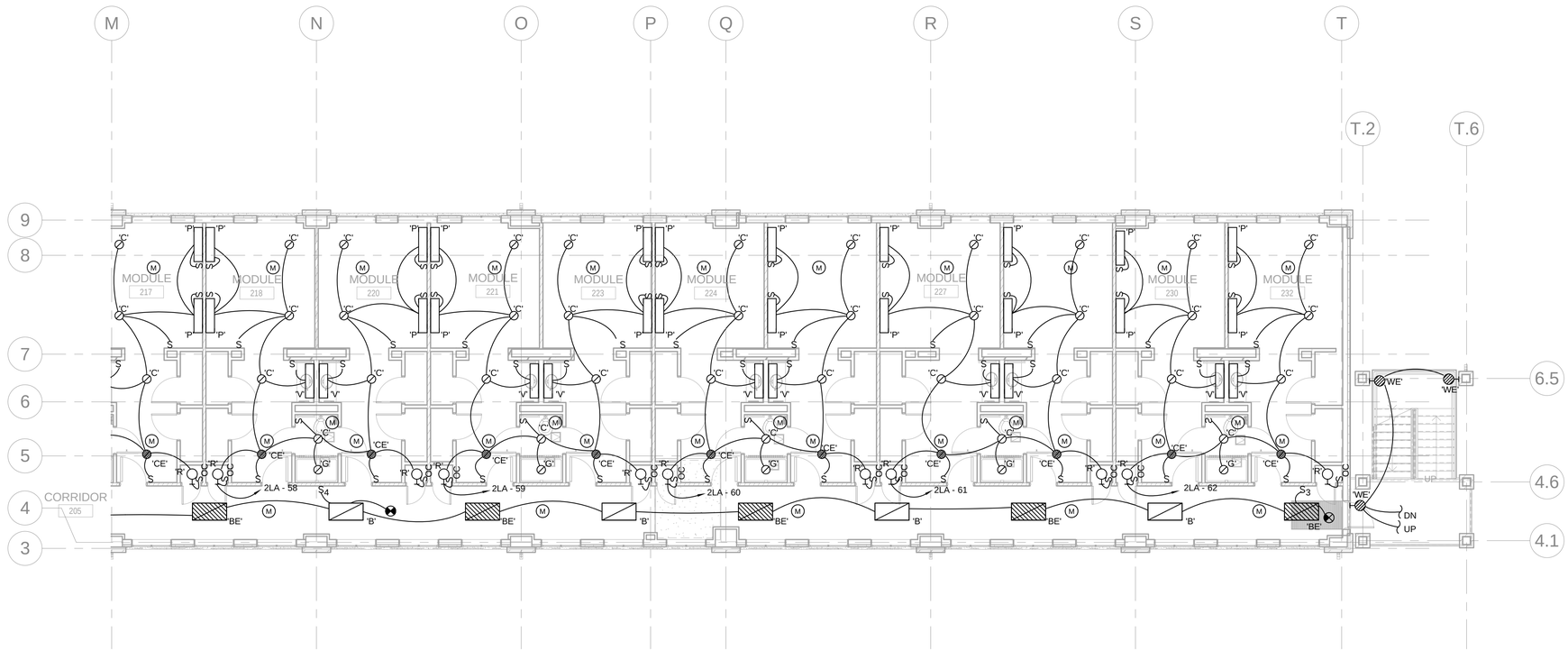
74278- E-121-

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.



GENERAL NOTES:

A. COORDINATE EXACT LOCATIONS OF LIGHTING FIXTURES OF MECHANICAL ROOMS WITH MECHANICAL DUCTWORK AND EQUIPMENT PRIOR TO ROUGH-IN.

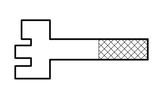
B. UNLESS OTHERWISE NOTED, 277V, 20A/1P BREAKERS SHALL UTILIZE #12 AWG CONDUCTORS. EXCEPTION: WHERE BRANCH CIRCUIT IS IN EXCESS OF 225 LINEAR FEET, CONDUCTORS SHALL BE #10 AWG AND WHERE BRANCH CIRCUIT IS IN EXCESS OF 350 LINEAR FEET, CONDUCTORS SHALL BE #8 AWG. EQUIPMENT GROUNDING CONDUCTOR SHALL MATCH PHASE CONDUCTOR FOR 20A/1P BRANCH CIRCUITS.

C. DEVICES INDICATED ON THIS DRAWING ARE DIAGRAMMATICAL ONLY. CONTRACTOR SHALL REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATIONS OF OUTLETS, SWITCHES, ETC.

D. MAINTAIN A MINIMUM SEPARATION OF 24" BETWEEN CENTERLINE OF ALL LIGHT SWITCHES SET INTO OPPOSITE SIDES OF ALL SOUND ISOLATION WALLS. WHERE ABOVE NOTED CONDITION OCCURS AND REQUIRES A CONDUIT CONNECTION BETWEEN BOXES, UTILIZE FLEXIBLE TYPE CONDUIT.

E. MULTIWIRE BRANCH CIRCUITS SHALL BE INSTALLED PER ARTICLE 210.4 OF THE NEC. EACH MULTIWIRE CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES.

KEY PLAN



NORTH

1 / E-122

LIGHTING - SECOND FLOOR PLAN

4' 2' 0' 4' 8'
SCALE: 1/8" = 1'-0"

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
LIGHTING - SECOND FLOOR PLAN

DESIGNED BY: TSK	CHECKED BY: KJ	ISSUE DATE: JUNE 2013	SOLICITATION NO.: W912HN-09-X-5107
DRAWN BY: PS	SUBMITTED BY: TSK	FILE NAME: E122-LIGHTING	CONTRACT NO.: W912HN-10-D-5048 T.O. 0007
SIZE: 22" x 34"	PLOT SCALE: As indicated	PLOT DATE: 5/1/2015 10:25:46 AM	CATEGORY CODE:

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

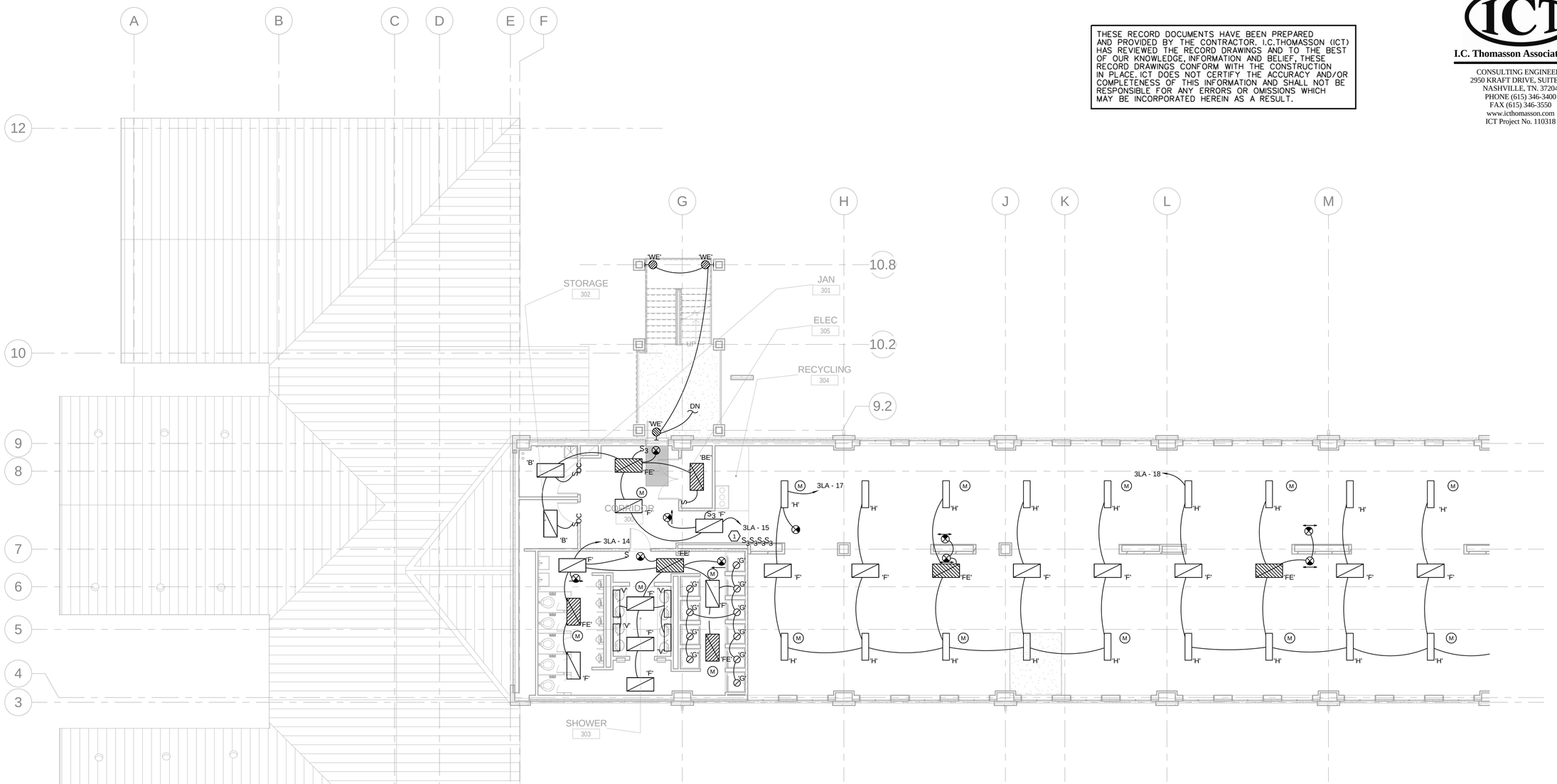
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

PLATE REFERENCE NUMBER
E-122
SHEET 247

74278- E-122-

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

ICT
I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.ictthomasson.com
ICT Project No. 110318



ELECTRICAL NOTES:

1. EACH SWITCH SHALL CONTROL ONE CIRCUIT OF FIXTURES IN SLEEPING BAY.

GENERAL NOTES:

A. COORDINATE EXACT LOCATIONS OF LIGHTING FIXTURES OF MECHANICAL ROOMS WITH MECHANICAL DUCTWORK AND EQUIPMENT PRIOR TO ROUGH-IN.

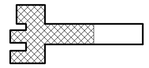
B. UNLESS OTHERWISE NOTED, 277V, 20A/1P BREAKERS SHALL UTILIZE #12 AWG CONDUCTORS. EXCEPTION: WHERE BRANCH CIRCUIT IS IN EXCESS OF 225 LINEAR FEET, CONDUCTORS SHALL BE #10 AWG AND WHERE BRANCH CIRCUIT IS IN EXCESS OF 350 LINEAR FEET, CONDUCTORS SHALL BE #8 AWG. EQUIPMENT GROUNDING CONDUCTOR SHALL MATCH PHASE CONDUCTOR FOR 20A/1P BRANCH CIRCUITS.

C. DEVICES INDICATED ON THIS DRAWING ARE DIAGRAMMATICAL ONLY. CONTRACTOR SHALL REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATIONS OF OUTLETS, SWITCHES, ETC.

D. MAINTAIN A MINIMUM SEPARATION OF 24" BETWEEN CENTERLINE OF ALL LIGHT SWITCHES SET INTO OPPOSITE SIDES OF ALL SOUND ISOLATION WALLS. WHERE ABOVE NOTED CONDITION OCCURS AND REQUIRES A CONDUIT CONNECTION BETWEEN BOXES, UTILIZE FLEXIBLE TYPE CONDUIT.

E. MULTIWIRE BRANCH CIRCUITS SHALL BE INSTALLED PER ARTICLE 210.4 OF THE NEC. EACH MULTIWIRE CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES.

KEY PLAN



NORTH

1 / E-131

LIGHTING - THIRD FLOOR PLAN

4' 2' 0' 4' 8'

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

FINAL AS-BUILT DRAWINGS

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-S107
CONTRACT NO.: W912HN-10-D-0049 T.O. 0007
CATEGORY CODE:
PLOT DATE: 5/1/2015 10:25:49 AM

DESIGNED BY: TSK
DRAWN BY: PS
CHECKED BY: KJ
SUBMITTED BY: TSK
FILE NAME: E131-3RD.dwg
PLOT SCALE: As indicated
SIZE: 22" x 34"

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS

FL LIC.# AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
LIGHTING - THIRD FLOOR PLAN

PLATE REFERENCE NUMBER
E-131
SHEET 248

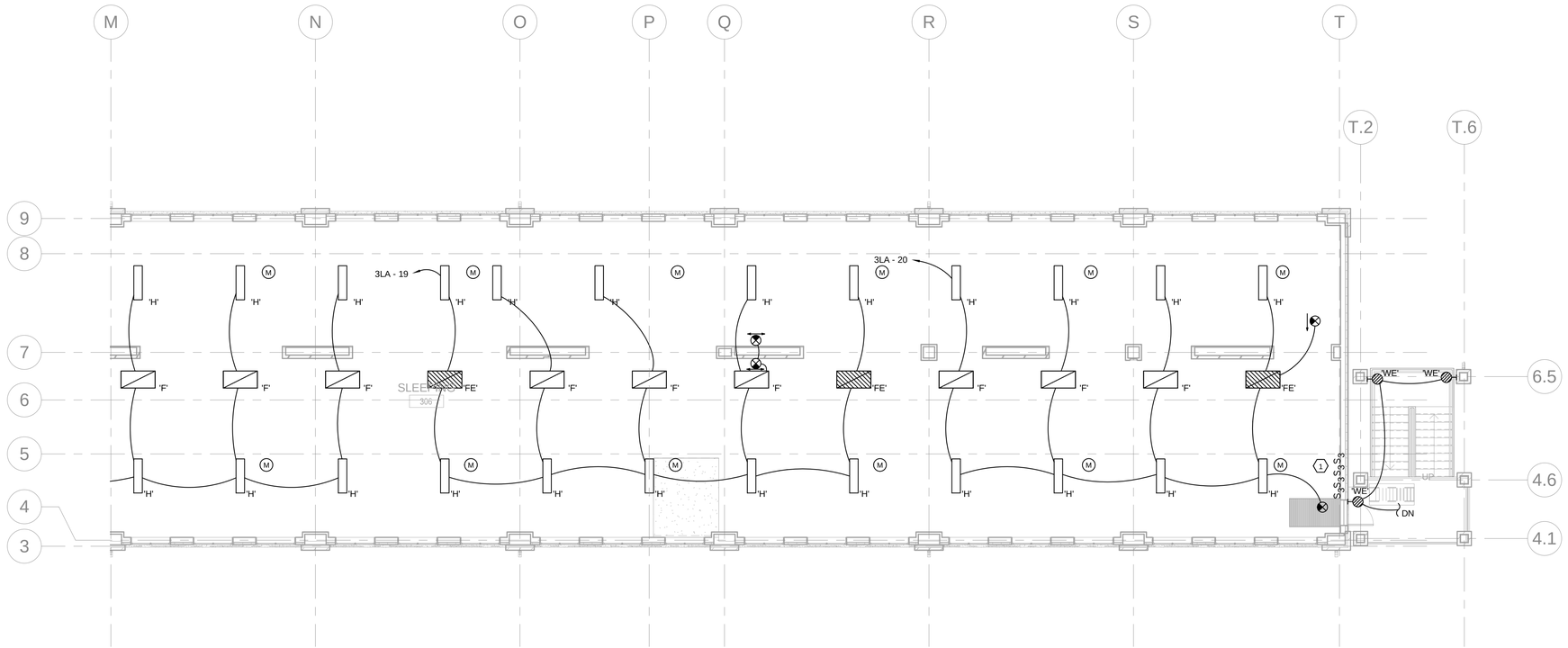
74278- E-131-

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.



ELECTRICAL NOTES:

1. EACH SWITCH SHALL CONTROL ONE CIRCUIT OF FIXTURES IN SLEEPING BAY.

GENERAL NOTES:

A. COORDINATE EXACT LOCATIONS OF LIGHTING FIXTURES OF MECHANICAL ROOMS WITH MECHANICAL DUCTWORK AND EQUIPMENT PRIOR TO ROUGH-IN.

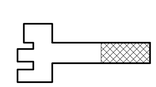
B. UNLESS OTHERWISE NOTED, 277V, 20A/1P BREAKERS SHALL UTILIZE #12 AWG CONDUCTORS. EXCEPTION: WHERE BRANCH CIRCUIT IS IN EXCESS OF 225 LINEAR FEET, CONDUCTORS SHALL BE #10 AWG AND WHERE BRANCH CIRCUIT IS IN EXCESS OF 350 LINEAR FEET, CONDUCTORS SHALL BE #8 AWG. EQUIPMENT GROUNDING CONDUCTOR SHALL MATCH PHASE CONDUCTOR FOR 20A/1P BRANCH CIRCUITS.

C. DEVICES INDICATED ON THIS DRAWING ARE DIAGRAMMATICAL ONLY. CONTRACTOR SHALL REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATIONS OF OUTLETS, SWITCHES, ETC.

D. MAINTAIN A MINIMUM SEPARATION OF 24" BETWEEN CENTERLINE OF ALL LIGHT SWITCHES SET INTO OPPOSITE SIDES OF ALL SOUND ISOLATION WALLS. WHERE ABOVE NOTED CONDITION OCCURS AND REQUIRES A CONDUIT CONNECTION BETWEEN BOXES, UTILIZE FLEXIBLE TYPE CONDUIT.

E. MULTIWIRE BRANCH CIRCUITS SHALL BE INSTALLED PER ARTICLE 210.4 OF THE NEC. EACH MULTIWIRE CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES.

KEY PLAN



NORTH
1
E-132

LIGHTING - THIRD FLOOR PLAN

4' 2' 0' 4' 8'
SCALE: 1/8" = 1'-0"

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
LIGHTING - THIRD FLOOR PLAN

DESIGNED BY: TSK	CHECKED BY: KJ	ISSUE DATE: JUNE 2013	SOLICITATION NO.: W912HN-09-X-5107
DRAWN BY: PS	SUBMITTED BY: TSK	FILE NAME: E132-3LA.dwg	CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
			CATEGORY CODE:
		SIZE: 22" x 34"	PLOT SCALE: As indicated
			PLOT DATE: 5/1/2015 10:25:59 AM

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

PLATE REFERENCE NUMBER
E-132
SHEET 249

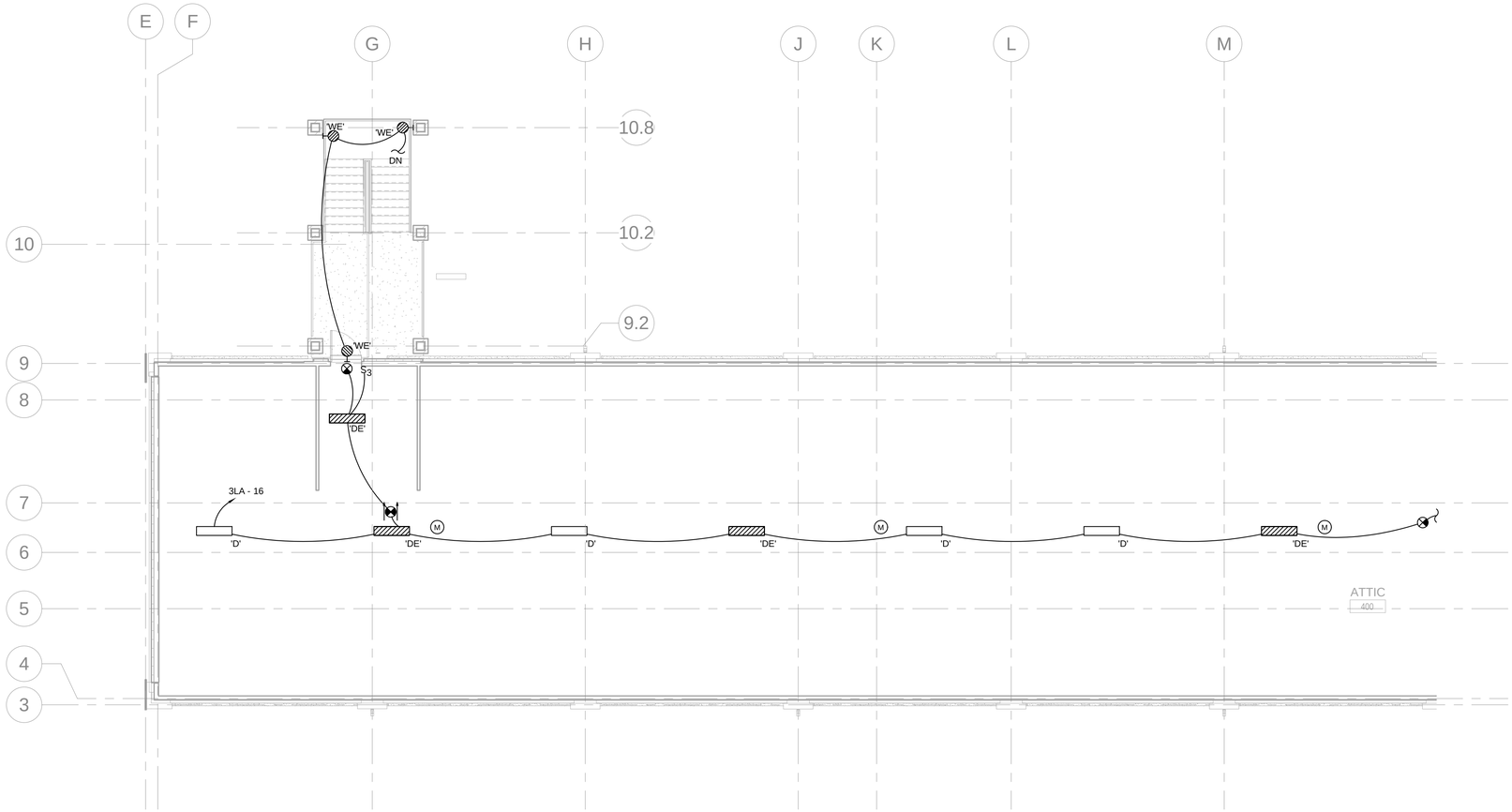
74278- E-132-

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.



GENERAL NOTES:

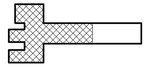
A. MULTIWIRE BRANCH CIRCUITS SHALL BE INSTALLED PER NEC 210.4. EACH MULTIWIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES, I.E. BREAKER HANDLE-TIE.

B. UNLESS OTHERWISE NOTED, 120V, 20A/1P BREAKERS SHALL UTILIZE #12 AWG CONDUCTORS. EXCEPTION: WHERE BRANCH CIRCUIT IS IN EXCESS OF 100 LINEAR FEET, CONDUCTORS SHALL BE #10 AWG AND WHERE BRANCH CIRCUIT IS IN EXCESS OF 225 LINEAR FEET, CONDUCTORS SHALL BE #8 AWG. EQUIPMENT GROUNDING CONDUCTOR SHALL MATCH PHASE CONDUCTOR FOR 20A/1P BRANCH CIRCUITS.

C. BRANCH CIRCUIT CONDUCTORS SIZED TO PREVENT VOLTAGE DROP MAY BE REDUCED IN SIZE AS LOAD SUPPLIED BY REMAINING CIRCUIT DECREASES. VOLTAGE DROP SHALL NOT EXCEED THREE PERCENT AT THE FARTHEST BRANCH CIRCUITS.

D. MAINTAIN A MINIMUM SEPARATION OF 12" BETWEEN CENTERLINE OF ALL RECEPTACLES SET INTO OPPOSITE SIDES OF ALL SOUND ISOLATION WALLS. WHERE ABOVE NOTED CONDITION OCCURS AND REQUIRES A CONDUIT CONNECTION BETWEEN BOXES, UTILIZE FLEXIBLE TYPE CONDUIT.

KEY PLAN



NORTH

1
E-141

LIGHTING - ATTIC PLAN

4' 2' 0' 4' 8'
SCALE: 1/8" = 1'-0"

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
LIGHTING - ATTIC PLAN

PLATE REFERENCE NUMBER
E-141
SHEET 250

DESIGNED BY: TSK	CHECKED BY: KJ	ISSUE DATE: JUNE 2013	
DRAWN BY: PS	SUBMITTED BY: TSK	SOLICITATION NO.: W912HN-09-X-S107	
FILE NAME: E141.DGN		CONTRACT NO.: W912HN-10-D-0048 T.O. 0007	
SIZE: 22" x 34"	PLOT SCALE: As Indicated	CATEGORY CODE:	
		PLOT DATE: 5/1/2015 10:25:52 AM	

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS
FL LIC #AA0003564

74278- E-141-

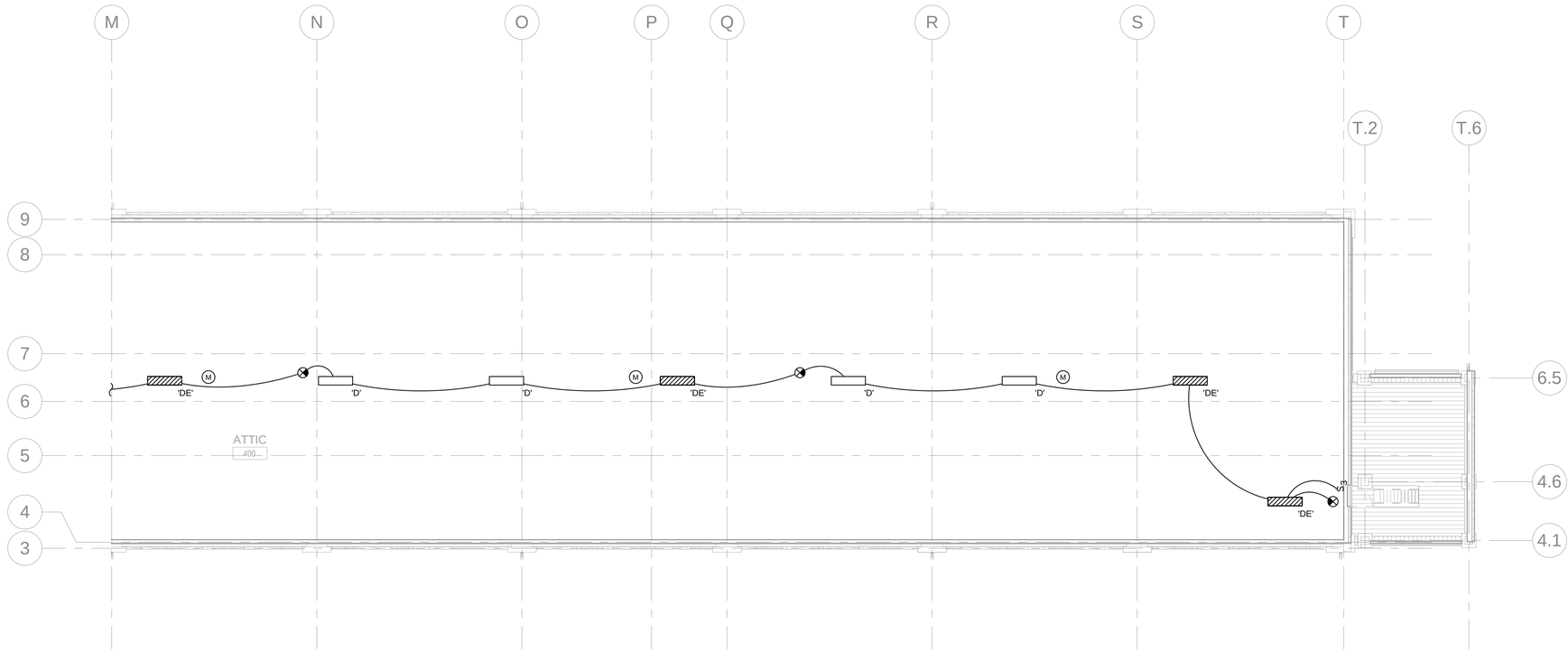
THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

I.C. Thomasson Associates, Inc.

CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.ictthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.



GENERAL NOTES:

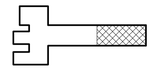
A. MULTIWIRE BRANCH CIRCUITS SHALL BE INSTALLED PER NEC 210.4. EACH MULTIWIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES, I.E. BREAKER HANDLE-TIE.

B. UNLESS OTHERWISE NOTED, 120V, 20A/1P BREAKERS SHALL UTILIZE #12 AWG CONDUCTORS, EXCEPTION: WHERE BRANCH CIRCUIT IS IN EXCESS OF 100 LINEAR FEET, CONDUCTORS SHALL BE #10 AWG AND WHERE BRANCH CIRCUIT IS IN EXCESS OF 225 LINEAR FEET, CONDUCTORS SHALL BE #8 AWG. EQUIPMENT GROUNDING CONDUCTOR SHALL MATCH PHASE CONDUCTOR FOR 20A/1P BRANCH CIRCUITS.

C. BRANCH CIRCUIT CONDUCTORS SIZED TO PREVENT VOLTAGE DROP MAY BE REDUCED IN SIZE AS LOAD SUPPLIED BY REMAINING CIRCUIT DECREASES. VOLTAGE DROP SHALL NOT EXCEED THREE PERCENT AT THE FARTHEST BRANCH CIRCUITS.

D. MAINTAIN A MINIMUM SEPARATION OF 12" BETWEEN CENTERLINE OF ALL RECEPTACLES SET INTO OPPOSITE SIDES OF ALL SOUND ISOLATION WALLS. WHERE ABOVE NOTED CONDITION OCCURS AND REQUIRES A CONDUIT CONNECTION BETWEEN BOXES, UTILIZE FLEXIBLE TYPE CONDUIT.

KEY PLAN



NORTH

1
E-142

LIGHTING - ATTIC PLAN

4' 2' 0' 4' 8'
SCALE: 1/8" = 1'-0"

FINAL AS-BUILT DRAWINGS

ISSUE DATE:	JUNE 2013
DESIGNED BY:	TSK
DRAWN BY:	PS
CHECKED BY:	KJ
SUBMITTED BY:	TSK
FILE NAME:	E142-ATTIC.dwg
SIZE:	22" x 34"
SOLICITATION NO.:	W912HN-09-X-S107
CONTRACT NO.:	W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:	
PLOT SCALE:	As indicated
PLOT DATE:	5/1/2015 10:25:53 AM

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

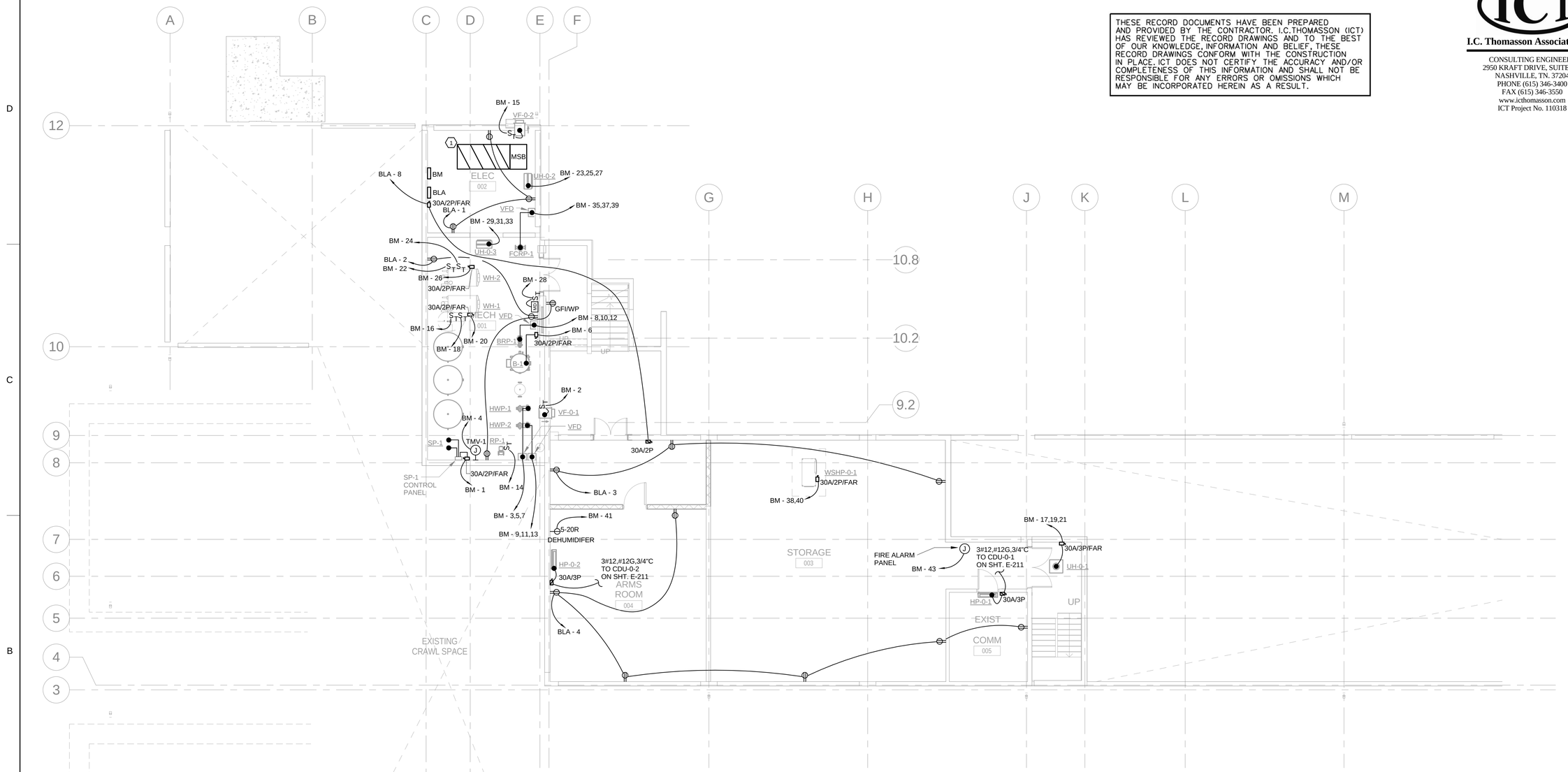
© 2012 STOA ARCHITECTS

FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
LIGHTING - ATTIC PLAN

PLATE REFERENCE NUMBER
E-142
SHEET 251

74278- E-142-



THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

I.C. Thomasson Associates, Inc.

CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.ictthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.
1	REVISION #6 MODIFICATION TO BASEMENT ARMS ROOM AND NEWDOOR ADDED BETWEEN RM. 112 AND 113	5/16/14	

ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D-5048 T.O. 0007
CATEGORY CODE:
PLOT DATE: 5/1/2015 10:25:55 AM
DESIGNED BY: TSK
DRAWN BY: PS
CHECKED BY: KJ
SUBMITTED BY: TSK
FILE NAME: E-201.dwg
PLOT SCALE: As indicated
SIZE: 22" x 34"

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS
FL LIC #AA0003564

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
POWER - BASEMENT FLOOR PLAN

PLATE REFERENCE NUMBER
E-201
SHEET 252

ELECTRICAL NOTES:

1. PROVIDE MINIMUM OF EIGHT FOOT WORKING SPACE FOR SWITCHBOARD 'MSB'.

GENERAL NOTES:

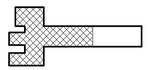
A. MULTIWIRE BRANCH CIRCUITS SHALL BE INSTALLED PER NEC 210.4. EACH MULTIWIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES, I.E. BREAKER HANDLE-TIE.

B. UNLESS OTHERWISE NOTED, 120V, 20A/1P BREAKERS SHALL UTILIZE #12 AWG CONDUCTORS, EXCEPTION: WHERE BRANCH CIRCUIT IS IN EXCESS OF 100 LINEAR FEET, CONDUCTORS SHALL BE #10 AWG AND WHERE BRANCH CIRCUIT IS IN EXCESS OF 225 LINEAR FEET, CONDUCTORS SHALL BE #8 AWG. EQUIPMENT GROUNDING CONDUCTOR SHALL MATCH PHASE CONDUCTOR FOR 20A/1P BRANCH CIRCUITS.

C. BRANCH CIRCUIT CONDUCTORS SIZED TO PREVENT VOLTAGE DROP MAY BE REDUCED IN SIZE AS LOAD SUPPLIED BY REMAINING CIRCUIT DECREASES. VOLTAGE DROP SHALL NOT EXCEED THREE PERCENT AT THE FARTHEST BRANCH CIRCUITS.

D. MAINTAIN A MINIMUM SEPARATION OF 12" BETWEEN CENTERLINE OF ALL RECEPTACLES SET INTO OPPOSITE SIDES OF ALL SOUND ISOLATION WALLS. WHERE ABOVE NOTED CONDITION OCCURS AND REQUIRES A CONDUIT CONNECTION BETWEEN BOXES, UTILIZE FLEXIBLE TYPE CONDUIT.

KEY PLAN



NORTH

1 / E-201

POWER - BASEMENT FLOOR PLAN

4' 2' 0' 4' 8'
SCALE: 1/8" = 1'-0"

74278- E-201-

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.
1	AMENDMENT 002 BASEMENT CHANGES PER RFP MOD BO007 - RFP 0006	11/14/14	

NEW SECONDARY CONCRETE ENCASED DUCT BANK. SEE SECTION A-A FOR REQUIREMENTS

UTILITY COMPANY PAD MOUNTED TRANSFORMER

1M - 1,3,5
200A/3P/FAR/3R
GFI/WP
BLA - 5
FC-1

ENTRY 101A
COMM/ NIPR 113
STUDENT TRAINING ROOM 104
SIPR 105
ADMIN MECH 103
CORRIDOR 101
ADMIN TRAINING ROOM 111
COMMANDER 115
XO 117
ROP PLATOON OFFICE 120
SHOWERS/ TOILETS 121C
SUPPLY 144
MEN'S 102
LOBBY 100
STUDENT TRAINING ROOM 107
STORAGE 143
WOMEN'S 108
CADRE 119
TA-50 LOCKERS 121B
MODULE 127
ELEC 125
STORAGE 126
OPS 112
ROP NCIOC 116
PLATOON OFFICES 118
LST SGT 114
LOBBY 122
JAN 123
VEST 121D
CONSOLIDATED CQ 110
CONFERENCE 106

STARTER. SEE E-001
VF-1-1
1M - 26,28,30
BP-1
1M - 66,68,70
60A/3P/FAR
WSHP-1-20
30A/2P/FAR
1M - 83,85
3#12,#12G,3/4"C TO CDU-1-1
HP-1-4
30A/3P
1CS - 1
1CS - 2
1CS - 3,5
1CS - 4,6
1CS - 7
1CS - 8
6-20R
ICE
1LA - 27
1M - 60,62,64
GFI/WP
UH-1-4
1LA - 59
BM - 34,36
1M - 22,24
CD-3-1
CDU-0-2
30A/2P/FAR/3R
1LA - 41
1LA - 42
1LA - 53
1LB - 1
1LB - 2
1LB - 3
1LA - 43
1LA - 44
1LA - 46
1LA - 57
4#12, 3/4"C TO CDU-1-3
1M - 23,25
1M - 18,20
1M - 14,16
1M - 10,12
CDU-1-3
CDU-1-4
CDU2-1
FIRE ALARM POWER
1M - 54,56,58
30A/3P/FAR
UH-1-3
HP-1-6
HP-1-1
HP-1-7
1M - 11,13
30A/2P
WSHP-1-2
1M - 7,9
1LA - 36
1LA - 34
1LA - 35
1LA - 31
1LA - 37
1LA - 38
1LA - 39
1LA - 40
1M - 19,21
1M - 15,17
WSHP-1-4
WSHP-1-3
1LA - 60
1LA - 62
1LA - 61
1LA - 63
1LA - 64
1LA - 65
1LA - 66
1LA - 67
1LA - 68
1LA - 69
1LA - 71,73
1LA - 75,77
1LA - 79,81
1M - 87,89
1M - 48,50,52
1M - 46
1M - 40,42,44
1M - 32
1M - 34,36,38
1M - 2,4
1M - 6,8
1M - 75,77
1M - 79,81
1LA - 1
1LA - 2
1LA - 3
1LA - 5
1LA - 7
1LA - 8
1LA - 10
1LA - 11
1LA - 13
1LA - 14
1LA - 15
1LA - 16
1LA - 17
1LA - 18
1LA - 19
1LA - 20
1LA - 21
1LA - 22
1LA - 23
1LA - 24
1LA - 25
1LA - 26
1LA - 27
1LA - 29
1LA - 30
1LA - 32
1LA - 33
1LA - 34
1LA - 36
1LA - 41
1LA - 42
1LA - 44
1LA - 46
1LA - 47
1LA - 48
1LA - 49
1LA - 50
1LA - 51
1LA - 52
1LA - 53
1LA - 54
1LA - 55
1LA - 56
1LA - 57
1LA - 58
1LA - 59
1LA - 60
1LA - 61
1LA - 62
1LA - 63
1LA - 64
1LA - 65
1LA - 66
1LA - 67
1LA - 68
1LA - 69
1LA - 71,73
1LA - 75,77
1LA - 79,81
1M - 63,65
1M - 67,69
1M - 71,73
1M - 75,77
1M - 79,81
1M - 83,85
1M - 87,89
1M - 2,4
1M - 6,8
1M - 7,9
1M - 10,12
1M - 11,13
1M - 14,16
1M - 15,17
1M - 18,20
1M - 19,21
1M - 22,24
1M - 23,25
1M - 26,28,30
1M - 32
1M - 34,36,38
1M - 40,42,44
1M - 46
1M - 48,50,52
1M - 54,56,58
1M - 60,62,64
1M - 63,65
1M - 67,69
1M - 71,73
1M - 75,77
1M - 79,81
1M - 83,85
1M - 87,89
1CN - 1
1CN - 2
1CN - 3,5
1CN - 4,6
1CN - 7
1CN - 8
1CN - 10
1CN - 11
6-20R
30A/2P
30A/3P
GFI
GFI/WP
TV
S
J
MD
UH-1-1
UH-1-2
FIRE ALARM POWER
EWC/GFI
AV RACK
3#12,#12G,3/4"C TO CDU-1-2
WSHP-1-15
WSHP-1-16
WSHP-1-17
WSHP-1-18
WSHP-1-19
WSHP-1-21
HP-1-5
CDU-1-1
CDU-1-2
CDU-1-1
PROJECTOR
AV Rack
SCREEN
UP
DN
10.8
10.2
9.2

ELECTRICAL NOTES:

1. COORDINATE DEVICE HEIGHT WITH ARCHITECTURAL ELEVATION.

GENERAL NOTES:

A. MULTIWIRE BRANCH CIRCUITS SHALL BE INSTALLED PER NEC 210.4. EACH MULTIWIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES, I.E. BREAKER HANDLE-TIE.

B. UNLESS OTHERWISE NOTED, 120V, 20A/1P BREAKERS SHALL UTILIZE #12 AWG CONDUCTORS, EXCEPTION: WHERE BRANCH CIRCUIT IS IN EXCESS OF 100 LINEAR FEET, CONDUCTORS SHALL BE #10 AWG AND WHERE BRANCH CIRCUIT IS IN EXCESS OF 225 LINEAR FEET, CONDUCTORS SHALL BE #8 AWG. EQUIPMENT GROUNDING CONDUCTOR SHALL MATCH PHASE CONDUCTOR FOR 20A/1P BRANCH CIRCUITS.

C. BRANCH CIRCUIT CONDUCTORS SIZED TO PREVENT VOLTAGE DROP MAY BE REDUCED IN SIZE AS LOAD SUPPLIED BY REMAINING CIRCUIT DECREASES. VOLTAGE DROP SHALL NOT EXCEED THREE PERCENT AT THE FARTHEST BRANCH CIRCUITS.

D. MAINTAIN A MINIMUM SEPARATION OF 12" BETWEEN CENTERLINE OF ALL RECEPTACLES SET INTO OPPOSITE SIDES OF ALL SOUND ISOLATION WALLS. WHERE ABOVE NOTED CONDITION OCCURS AND REQUIRES A CONDUIT CONNECTION BETWEEN BOXES, UTILIZE FLEXIBLE TYPE CONDUIT.

KEY PLAN

NORTH

1 / E-211

POWER - FIRST FLOOR PLAN

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

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
POWER - FIRST FLOOR PLAN

PLATE REFERENCE NUMBER
E-211
SHEET 253

ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-S107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
PLOT DATE: 5/1/2015 10:26:01 AM

DESIGNED BY: TSK
DRAWN BY: PS
CHECKED BY: KJ
SUBMITTED BY: TSK
FILE NAME: E211_POWER_1.dwg
SIZE: 22" x 34"
PLOT SCALE: As indicated

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

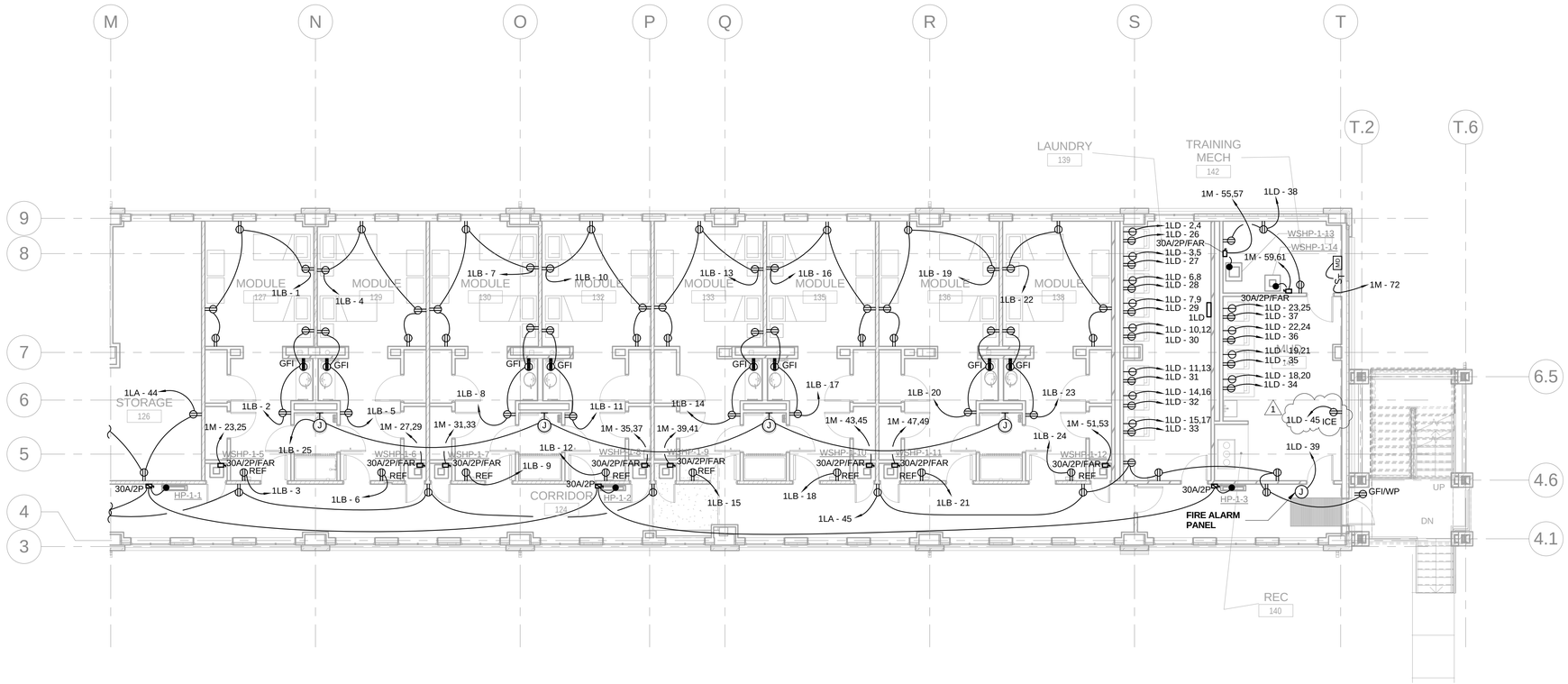
74278- E-211-

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.
1	AMENDMENT 002 BASEMENT CHANGES PER RFP MOD B0007 - RFP 0006	11/14/14	



GENERAL NOTES:

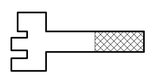
A. MULTIWIRE BRANCH CIRCUITS SHALL BE INSTALLED PER NEC 210.4. EACH MULTIWIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES, I.E. BREAKER HANDLE-TIE.

B. UNLESS OTHERWISE NOTED, 120V, 20A/1P BREAKERS SHALL UTILIZE #12 AWG CONDUCTORS, EXCEPTION: WHERE BRANCH CIRCUIT IS IN EXCESS OF 100 LINEAR FEET, CONDUCTORS SHALL BE #10 AWG AND WHERE BRANCH CIRCUIT IS IN EXCESS OF 225 LINEAR FEET, CONDUCTORS SHALL BE #8 AWG. EQUIPMENT GROUNDING CONDUCTOR SHALL MATCH PHASE CONDUCTOR FOR 20A/1P BRANCH CIRCUITS.

C. BRANCH CIRCUIT CONDUCTORS SIZED TO PREVENT VOLTAGE DROP MAY BE REDUCED IN SIZE AS LOAD SUPPLIED BY REMAINING CIRCUIT DECREASES. VOLTAGE DROP SHALL NOT EXCEED THREE PERCENT AT THE FARTHEST BRANCH CIRCUITS.

D. MAINTAIN A MINIMUM SEPARATION OF 12" BETWEEN CENTERLINE OF ALL RECEPTACLES SET INTO OPPOSITE SIDES OF ALL SOUND ISOLATION WALLS. WHERE ABOVE NOTED CONDITION OCCURS AND REQUIRES A CONDUIT CONNECTION BETWEEN BOXES, UTILIZE FLEXIBLE TYPE CONDUIT.

KEY PLAN



NORTH
1
E-212

POWER - FIRST FLOOR PLAN

4' 2' 0' 4' 8'
SCALE: 1/8" = 1'-0"

FINAL AS-BUILT DRAWINGS

ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
PLOT DATE: 5/1/2015 10:26:05 AM
DESIGNED BY: TSK
DRAWN BY: PS
CHECKED BY: KJ
SUBMITTED BY: TSK
FILE NAME: E212-POWER
PLOT SCALE: As indicated
SIZE: 22" x 34"

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS

FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
POWER - FIRST FLOOR PLAN

PLATE REFERENCE NUMBER
E-212
SHEET 254

74278- E-212-

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

JANITOR 201
RECYCLING 204B
CORRIDOR 204
STORAGE 202
STORAGE 203
CORRIDOR 205
MODULE 206
MODULE 208
MODULE 209
MODULE 211
MODULE 212
MODULE 215
MODULE 217
MODULE 218

2M - 1,3,5
DOAU-1
GFI
2LA - 72
FIRE ALARM POWER
GFI/WP
2LA - 71
2LA - 64
2M
2LA
2LA - 65
2M - 7,9
2LA - 63
30A/2P
WSHP-2-1
2M - 11,13
2LA - 2
2LA - 3
2LA - 69
30A/2P/FAR
REF
30A/3P
WSHP-2-2
2LA - 1
2LA - 4
2LA - 5
2M - 15,17
2LA - 6
2M - 19,21
WSHP-2-3
WSHP-2-4
2LA - 7
2LA - 8
2LA - 9
2LA - 10
2M - 23,25
2LA - 11
2LA - 12
WSHP-2-5
WSHP-2-6
2LA - 13
2LA - 14
2M - 27,29
2LA - 15
2LA - 16
2LA - 17
2M - 31,33
2LA - 18
WSHP-2-7
WSHP-2-8
2LA - 19
2LA - 20
2M - 35,37
2LA - 21
FIRE ALARM POWER
2LA - 22
2LA - 23
2M - 39,41
1LA - 9
30A/2P/FAR
2M - 2,4
WSHP-2-9
WSHP-2-10
2LA - 24
2LA - 25
2LA - 26
2LA - 66
2LA - 70
3#12,#12G,3/4"C TO CDU-2-1 ON SHT. E-211

10.8
10.2
9.2

GENERAL NOTES:

A. MULTIWIRE BRANCH CIRCUITS SHALL BE INSTALLED PER NEC 210.4. EACH MULTIWIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES, I.E. BREAKER HANDLE-TIE.

B. UNLESS OTHERWISE NOTED, 120V, 20A/1P BREAKERS SHALL UTILIZE #12 AWG CONDUCTORS, EXCEPTION: WHERE BRANCH CIRCUIT IS IN EXCESS OF 100 LINEAR FEET, CONDUCTORS SHALL BE #10 AWG AND WHERE BRANCH CIRCUIT IS IN EXCESS OF 225 LINEAR FEET, CONDUCTORS SHALL BE #8 AWG. EQUIPMENT GROUNDING CONDUCTOR SHALL MATCH PHASE CONDUCTOR FOR 20A/1P BRANCH CIRCUITS.

C. BRANCH CIRCUIT CONDUCTORS SIZED TO PREVENT VOLTAGE DROP MAY BE REDUCED IN SIZE AS LOAD SUPPLIED BY REMAINING CIRCUIT DECREASES. VOLTAGE DROP SHALL NOT EXCEED THREE PERCENT AT THE FARTHEST BRANCH CIRCUITS.

D. MAINTAIN A MINIMUM SEPARATION OF 12" BETWEEN CENTERLINE OF ALL RECEPTACLES SET INTO OPPOSITE SIDES OF ALL SOUND ISOLATION WALLS. WHERE ABOVE NOTED CONDITION OCCURS AND REQUIRES A CONDUIT CONNECTION BETWEEN BOXES, UTILIZE FLEXIBLE TYPE CONDUIT.

KEY PLAN

NORTH

1 / E-221

POWER - SECOND FLOOR PLAN

4' 2' 0' 4' 8'
SCALE: 1/8" = 1'-0"

FINAL AS-BUILT DRAWINGS

ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D-0049 T.O. 0007
CATEGORY CODE:
PLOT DATE: 5/1/2015 10:26:09 AM
DESIGNED BY: TSK
DRAWN BY: PS
CHECKED BY: KJ
SUBMITTED BY: TSK
FILE NAME: E-221.dwg
PLOT SCALE: As indicated
SIZE: 22" x 34"

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS
FL LIC #AA0003564

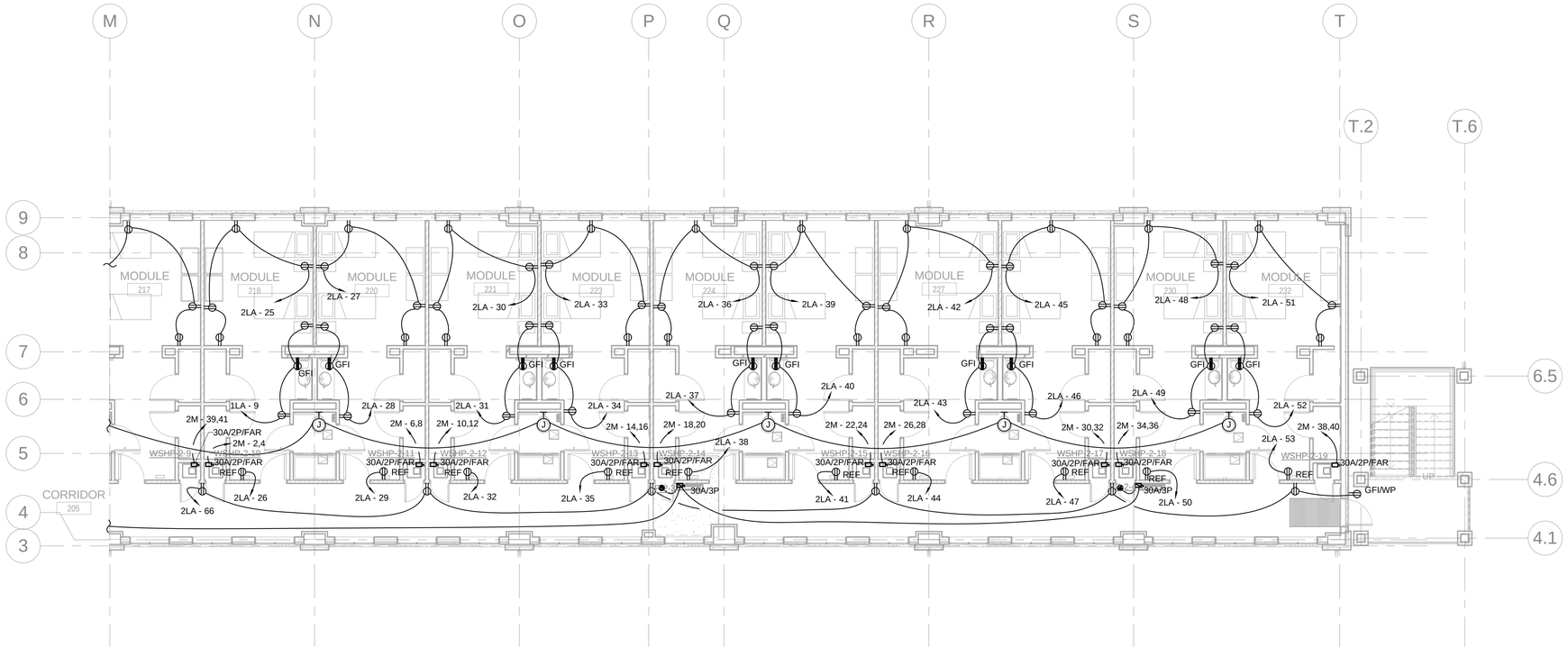
RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
POWER - SECOND FLOOR PLAN

PLATE REFERENCE NUMBER
E-221
SHEET 255

74278- E-221-

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318



GENERAL NOTES:

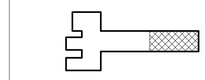
A. MULTIWIRE BRANCH CIRCUITS SHALL BE INSTALLED PER NEC 210.4. EACH MULTIWIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES, I.E. BREAKER HANDLE-TIE.

B. UNLESS OTHERWISE NOTED, 120V, 20A/1P BREAKERS SHALL UTILIZE #12 AWG CONDUCTORS, EXCEPTION: WHERE BRANCH CIRCUIT IS IN EXCESS OF 100 LINEAR FEET, CONDUCTORS SHALL BE #10 AWG AND WHERE BRANCH CIRCUIT IS IN EXCESS OF 225 LINEAR FEET, CONDUCTORS SHALL BE #8 AWG. EQUIPMENT GROUNDING CONDUCTOR SHALL MATCH PHASE CONDUCTOR FOR 20A/1P BRANCH CIRCUITS.

C. BRANCH CIRCUIT CONDUCTORS SIZED TO PREVENT VOLTAGE DROP MAY BE REDUCED IN SIZE AS LOAD SUPPLIED BY REMAINING CIRCUIT DECREASES. VOLTAGE DROP SHALL NOT EXCEED THREE PERCENT AT THE FARTHEST BRANCH CIRCUITS.

D. MAINTAIN A MINIMUM SEPARATION OF 12" BETWEEN CENTERLINE OF ALL RECEPTACLES SET INTO OPPOSITE SIDES OF ALL SOUND ISOLATION WALLS. WHERE ABOVE NOTED CONDITION OCCURS AND REQUIRES A CONDUIT CONNECTION BETWEEN BOXES, UTILIZE FLEXIBLE TYPE CONDUIT.

KEY PLAN



NORTH

1
E-222

POWER - SECOND FLOOR PLAN

4' 2' 0' 4' 8'
SCALE: 1/8" = 1'-0"

FINAL AS-BUILT DRAWINGS

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: TSK
DRAWN BY: PS
CHECKED BY: KJ
SUBMITTED BY: TSK
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-S107
CONTRACT NO.: W912HN-10-D-0049 T.O. 0007
CATEGORY CODE:
FILE NAME: E222-POWER
PLOT SCALE: As indicated
PLOT DATE: 5/1/2015 10:26:12 AM
SIZE: 22" x 34"

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
POWER - SECOND FLOOR PLAN

PLATE REFERENCE NUMBER
E-222
SHEET 256

74278- E-222-

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

STORAGE 302
JAN 301
ELEC 305
UP
RECYCLING 304
CORRIDOR 300
SHOWER 303
WSHP-3-1
WSHP-3-2
FIRE ALARM PANEL
3LA - 23
GFI/WP
30A/3P
3#12,#12G,3/4"C TO CDU-3-1 ON SHT. E-211
3LA
3M
3LA - 6
3LA - 22
3LA - 24
3LA - 5
3LA - 3
30A/2P
3M - 2,4
3LA - 1
3LA - 2
3LA - 21
3LA - 4
3M - 18
TWP
3LA - 10
3LA - 12
3M - 6,8
3LA - 9

ELECTRICAL NOTES:

A. COORDINATE DEVICE HEIGHT WITH ARCHITECTURAL ELEVATIONS.

GENERAL NOTES:

A. MULTIWIRE BRANCH CIRCUITS SHALL BE INSTALLED PER NEC 210.4. EACH MULTIWIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES, I.E. BREAKER HANDLE-TIE.

B. UNLESS OTHERWISE NOTED, 120V, 20A/1P BREAKERS SHALL UTILIZE #12 AWG CONDUCTORS, EXCEPTION: WHERE BRANCH CIRCUIT IS IN EXCESS OF 100 LINEAR FEET, CONDUCTORS SHALL BE #10 AWG AND WHERE BRANCH CIRCUIT IS IN EXCESS OF 225 LINEAR FEET, CONDUCTORS SHALL BE #8 AWG. EQUIPMENT GROUNDING CONDUCTOR SHALL MATCH PHASE CONDUCTOR FOR 20A/1P BRANCH CIRCUITS.

C. BRANCH CIRCUIT CONDUCTORS SIZED TO PREVENT VOLTAGE DROP MAY BE REDUCED IN SIZE AS LOAD SUPPLIED BY REMAINING CIRCUIT DECREASES. VOLTAGE DROP SHALL NOT EXCEED THREE PERCENT AT THE FARTHEST BRANCH CIRCUITS.

D. MAINTAIN A MINIMUM SEPARATION OF 12" BETWEEN CENTERLINE OF ALL RECEPTACLES SET INTO OPPOSITE SIDES OF ALL SOUND ISOLATION WALLS. WHERE ABOVE NOTED CONDITION OCCURS AND REQUIRES A CONDUIT CONNECTION BETWEEN BOXES, UTILIZE FLEXIBLE TYPE CONDUIT.

KEY PLAN

NORTH
1 / E-231

POWER - THIRD FLOOR PLAN

4' 2' 0' 4' 8'
SCALE: 1/8" = 1'-0"

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
POWER - THIRD FLOOR PLAN

PLATE REFERENCE NUMBER
E-231
SHEET 257

DESIGNED BY: TSK	ISSUE DATE: JUNE 2013
DRAWN BY: PS	CHECKED BY: KJ
SUBMITTED BY: TSK	SOLICITATION NO.: W912HN-09-X-S107
FILE NAME: E-231.DWG	CONTRACT NO.: W912HN-10-D-0049 T.O. 0007
SIZE: 22" x 34"	CATEGORY CODE:
	PLOT SCALE: As indicated
	PLOT DATE: 5/1/2015 10:26:15 AM

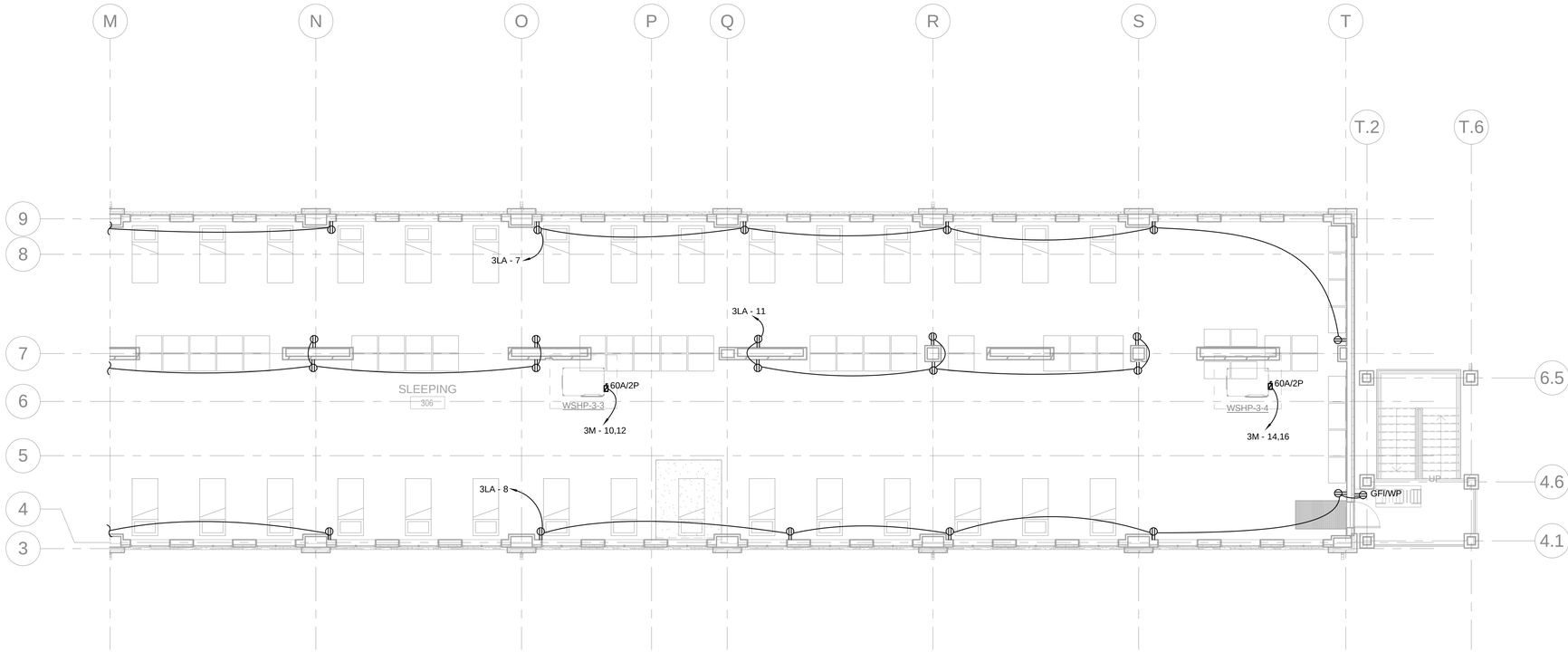
US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC.# AA0003564

74278- E-231-

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318



GENERAL NOTES:

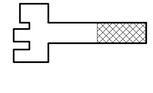
A. MULTIWIRE BRANCH CIRCUITS SHALL BE INSTALLED PER NEC 210.4. EACH MULTIWIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES, I.E. BREAKER HANDLE-TIE.

B. UNLESS OTHERWISE NOTED, 120V, 20A/1P BREAKERS SHALL UTILIZE #12 AWG CONDUCTORS, EXCEPTION: WHERE BRANCH CIRCUIT IS IN EXCESS OF 100 LINEAR FEET, CONDUCTORS SHALL BE #10 AWG AND WHERE BRANCH CIRCUIT IS IN EXCESS OF 225 LINEAR FEET, CONDUCTORS SHALL BE #8 AWG. EQUIPMENT GROUNDING CONDUCTOR SHALL MATCH PHASE CONDUCTOR FOR 20A/1P BRANCH CIRCUITS.

C. BRANCH CIRCUIT CONDUCTORS SIZED TO PREVENT VOLTAGE DROP MAY BE REDUCED IN SIZE AS LOAD SUPPLIED BY REMAINING CIRCUIT DECREASES. VOLTAGE DROP SHALL NOT EXCEED THREE PERCENT AT THE FARTHEST BRANCH CIRCUITS.

D. MAINTAIN A MINIMUM SEPARATION OF 12" BETWEEN CENTERLINE OF ALL RECEPTACLES SET INTO OPPOSITE SIDES OF ALL SOUND ISOLATION WALLS. WHERE ABOVE NOTED CONDITION OCCURS AND REQUIRES A CONDUIT CONNECTION BETWEEN BOXES, UTILIZE FLEXIBLE TYPE CONDUIT.

KEY PLAN



NORTH

1
E-232

POWER - THIRD FLOOR PLAN

4' 2' 0' 4' 8'
SCALE: 1/8" = 1'-0"

FINAL AS-BUILT DRAWINGS

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: TSK
DRAWN BY: PS
CHECKED BY: KJ
SUBMITTED BY: TSK
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D-0049 T.O. 0007
FILE NAME: E232-PWR-3RD
CATEGORY CODE:
SIZE: 22" x 34"
PLOT SCALE: AS indicated
PLOT DATE: 5/1/2015 10:26:17 AM

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
POWER - THIRD FLOOR PLAN

PLATE REFERENCE NUMBER
E-232
SHEET 258

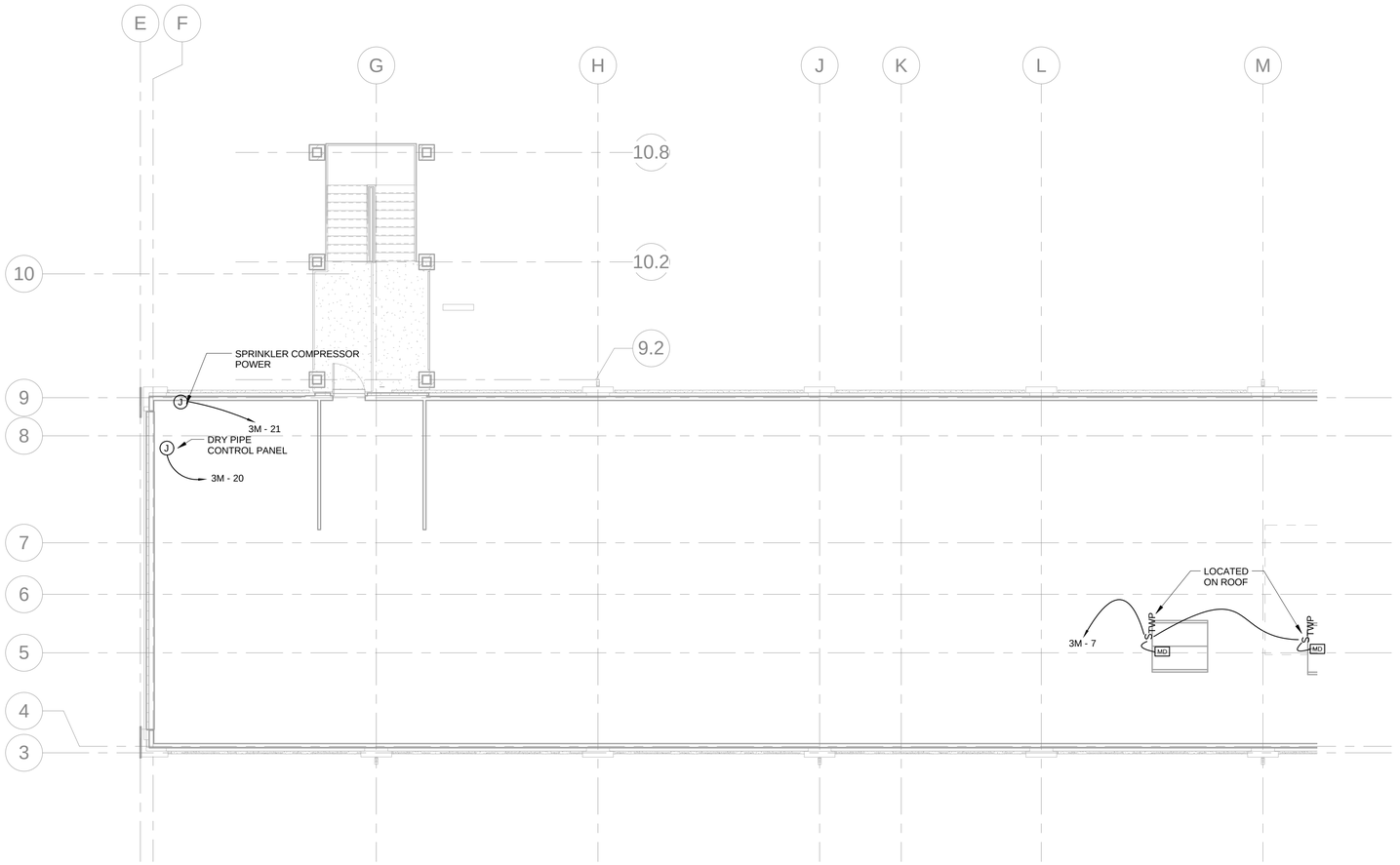
74278- E-232-

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

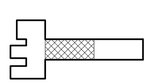
MARK	DESCRIPTION	DATE	APPR.



ELECTRICAL NOTES:

A. COORDINATE EXACT LOCATION FOR DRY PIPE SYSTEM COMPRESSOR WITH SPRINKLER DRAWINGS. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

KEY PLAN



NORTH

1 / E-241

POWER - ATTIC PLAN

4' 2' 0' 4' 8'
SCALE: 1/8" = 1'-0"

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
POWER - ATTIC PLAN

PLATE REFERENCE NUMBER
E-241
SHEET 259

ISSUE DATE: JUNE 2013	
DESIGNED BY: TSK	SOLICITATION NO.: W912HN-09-X-5107
DRAWN BY: PS	CHECKED BY: KJ
SUBMITTED BY: TSK	CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
FILE NAME: E241_POWER	CATEGORY CODE:
SIZE: 22" x 34"	PLOT SCALE: As indicated
	PLOT DATE: 5/1/2015 10:26:19 AM

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

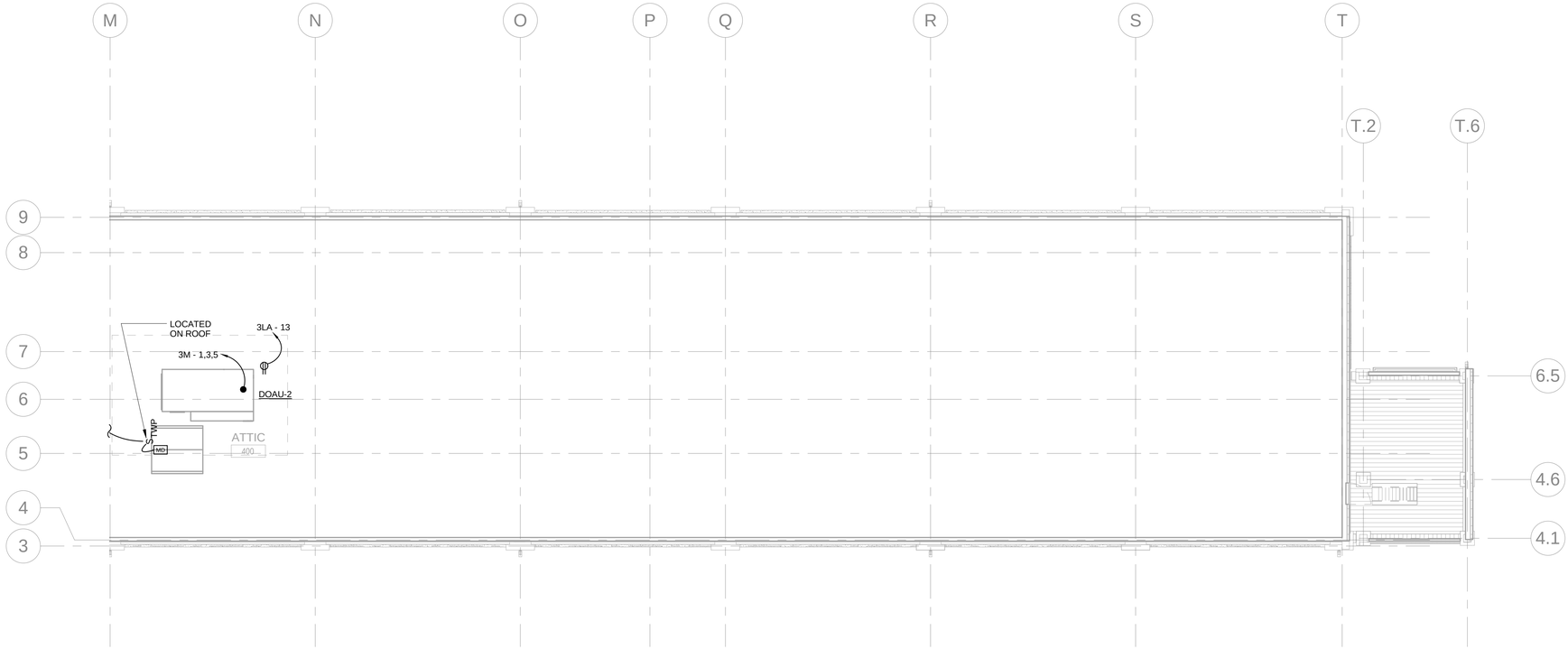
© 2012 STOA ARCHITECTS

FL LIC #AA0003564

74278- E-241-

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.ictthomasson.com
ICT Project No. 110318



NORTH

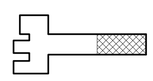
1
E-242

POWER - ATTIC PLAN

4' 2' 0' 4' 8'

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

KEY PLAN



FINAL AS-BUILT DRAWINGS

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

DESIGNED BY: TSK
DRAWN BY: PS
CHECKED BY: KJ
SUBMITTED BY: TSK
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
FILE NAME: E242-POWER
SIZE: 22" x 34"
PLOT SCALE: As indicated
PLOT DATE: 5/1/2015 10:26:21 AM

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS

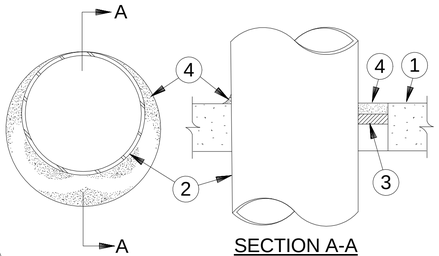
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
POWER - ATTIC PLAN

PLATE REFERENCE NUMBER
E-242
SHEET 260

74278- E-242-

System No. C-AJ-1001
March 05, 2007
F Rating - 3 Hr
T Rating - 0 Hr
W Rating - Class 1 (See Item 4)



SECTION A-A

1

1. Floor or Wall Assembly - Min 4-1/2 in. (114 mm) thick lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of circular through opening is 32-1/2 in. (826 mm).

See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

1A. Steel Sleeve - (Optional, not shown) - Nom 12 in. (305 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe sleeve cast into concrete floor or wall. Sleeve to be flush with or project max 2 in. (51 mm) from top surface of floor or from both surfaces of wall.

2. Through - Penetrant - One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in. (0 mm, point contact) to max 1-3/8 in. (35 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. Steel Pipe - Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

A1. Iron Pipe - Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.

B. Conduit - Nom 6 in. (152 mm) diam (or smaller) rigid steel conduit.

C. Conduit - Nom 4 in. (152 mm) diam (or smaller) steel electrical metallic tubing.

3. Packing Material - Polyethylene backer rod or nom 1 in. (25 mm) thickness of tightly-packed ceramic (alumina silica) fiber blanket, mineral wool batt or glass fiber insulation material used as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of solid concrete or concrete block wall as required to accommodate the required thickness of caulk fill material (Item 4). As an alternate when max pipe size is 10 in. (254 mm) diam and when max annular space is 1 in. (25 mm), a min 1 in. (25 mm) thickness of tightly-packed ceramic fiber blanket or mineral wool batt packing material may be recessed minin. (13 mm) from bottom surface of floor or from either side of solid concrete wall.

4. Fill, Void or Cavity Materials* - Caulk - Applied to fill the annular space to the min thickness shown in the following table:

Maximum Pipe Diameter Inches	Maximum Annular Space Inches	Packing Material Type (a)	Minimum Caulk Thickness Inches
10 (254)	1 (25)	BR, CF, GF or MW	(13) (b)
10 (254)	1 (25)	CF or MW	(13) (c)
30 (762)	2 (64)	BR, CF, GF or MW	1 (25) (b)

(a) BR=Polyethylene backer rod.
CF=Ceramic fiber blanket.
GF=Glass fiber insulation.
MW=Mineral-wool batt.
(b) Caulk installed flush with top surface of floor or both surfaces of wall
(c) Caulk installed flush with bottom surface of floor or one surface of solid (non-concrete block) wall

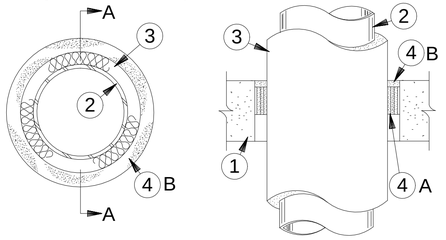
3M COMPANY - Type CP 25WB+ or FB-3000 WT

(Note - W Rating applies only when FB-3000 WT is used.)

*Bearing the UL Classification Mark Last Updated on 2007-03-05

UL Listed and Classified Products UL Recognized Components Products Certified for Canada

System No. C-AJ-5002
September 03, 2004
(Formerly System No. 91-B)
F Ratings - 2 and 3 Hr (See Items 1A and 4)
T Ratings - 0, 1/2 and 1 Hr (See Items 1A and 4)
L Rating At Ambient - 2 CFM/sq ft
L Rating At 400 F - less than 1 CFM/sq ft



SECTION A-A

2

1. Floor or Wall Assembly - Min 2-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 36 in.
See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

1A. Steel Sleeve - (Optional, not shown) - Nom 36 in. diam (or smaller) Schedule 10 (or heavier) steel pipe sleeve cast into min 4-1/2 in. thick concrete floor or wall. Sleeve to be flush with or project max 2 in. from top surface of floor or from both surfaces of wall. When steel sleeve is used, F Rating is 2 hr and T Rating is 0 hr.

2. Pipe - Nom 4 in. diam (or smaller) Type L (or heavier) copper pipe, nom 15 in. diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 30 in. diam (or smaller) Class 50 (or heavier) ductile iron pressure pipe or nom 30 in. diam (or smaller) Schedule 10 (or heavier) steel pipe centered in the opening and rigidly supported on both sides of the floor or wall assembly.

3. Pipe Covering* - Nom 1, 2 or 3 in. thick hollow cylindrical heavy density (min. 3.5 pcf) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt strip tape supplied with the product.

See Pipe and Equipment Covering - Materials* (BRGU) category in Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

4. Firestop System - The details of the firestop system shall be as follows:

A. Fill, Void or Cavity Materials* - Wrap Strip - Nom 1/4 in. thick intumescent elastomeric material faced on one side with aluminum foil, supplied in 2 in. wide by 24 in. long strips. Nom 2 in. wide strips tightly-wrapped around pipe covering (foil side exposed) to fill annular space. Each layer of wrap strip is to be installed with a butted seam, with the butted seams in successive layers staggered. Wrap strip layers securely bound with steel wire or aluminum foil tape and slide into annular space such that the top edges are recessed minin. form top surface of floor. In wall assemblies, the wrap strip layers shall be installed in the same manner used for floor assemblies but shall be installed symmetrically on both sides of the wall. The min number of wrap strip layers required is dependent upon the max pipe size and the pipe covering thickness, as shown in the following table:

Minimum Floor or Wall Thickness In.	Maximum Pipe Diameter Inches	Nominal Pipe Covering Thkns In.	Annular Space Inches	Min No. of Wrap Strip Layers	F Rating Hour	T Rating Hour
2-1/2	6	1	1/4 to 3/8	1	2	1
2-1/2	6	2	1/2 to 5/8	2	2	1
2-1/2	12	1	1/4 to 3/8	1	2	
4-1/2	12	1	1/4 to 5/8	1	2	1
4-1/2	12	2	1/2 to 5/8	2	2	1
4-1/2	20	1	1/2 to 1	2	3	1
4-1/2	30	2	3/4 to 1-1/4	3	2	1
4-1/2	20	3	1 to 1-1/2	4	2	1

3M COMPANY - FS-195+

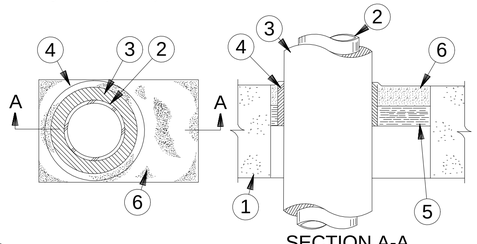
B. Fill, Void or Cavity Materials* - Caulk or Sealant - Applied to fill the annular space (over edges of wrap strip layers) to a min depth of in., flush with top surface of floor or both surfaces of wall.

3M COMPANY - CP 25WB+ or FB-3000 WT

*Bearing the UL Classification Mark Last Updated on 2004-09-03

UL Listed and Classified Products UL Recognized Components Products Certified for Canada

System No. C-AJ-5017
August 23, 2004
(Formerly System No. 395)
F Rating - 3 Hr
T Ratings - 1/2 and 1 Hr (See Item 3)
L Rating At Ambient - less than 1 CFM/sq ft
L Rating At 400 F - less than 1 CFM/sq ft
W Rating - Class 1 (See Item 6)



SECTION A-A

3

1. Floor or Wall Assembly - Min 4-1/2 in. thick lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks* Max area of square, rectangular or circular opening is 45 sq in. with max dimension of 9 in.
See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. Pipe - Nom 3 in. diam (or smaller) Type L (or heavier) copper pipe or nom 2-1/2 in. diam (or smaller) Schedule 10 (or heavier) steel pipe. One or more insulated pipes may be installed with a min clearance ofin. maintained between insulated pipes and with a min clearance of,in. maintained between insulated pipe and sides of through opening. Pipes to be rigidly supported on both sides of floor or wall assembly.

3. Pipe Insulation - Plastics# - Nom 3/4 in. thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing with skin. When nom 2-1/2 or 3 in. diam insulated steel or copper pipe is used, T Rating ishr. When max 2 in. diam insulated steel or copper pipe is used, T rating is 1 hr.
See Plastics# (QMFZ2) category in the Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation material meeting the above specifications and having a UL94 Flammability Classification of 94-5VA may be used.

4. Fill, Void or Cavity Materials* - Wrap Strip - Nom 1/4 in. thick intumescent elastomeric material faced on one side with aluminum foil, supplied in 2 in. wide strips. One nom 2 in. wide strip tightly-wrapped around pipe insulation (Item 3) with the foil side exposed and slid into through opening such that the top edge is flush with top surface of floor. When a single insulated pipe is installed in a circular through opening and when the max annular space between the insulated pipe and the sides of the through opening is...in., the wrap strip layer may be secured in place with pressure-sensitive tape. In all other situations, the wrap strip layer shall be secured in place with min No. 18 gauge galv steel tie wire. In wall assemblies, the wrap strip layer is to be installed on the insulated pipe in the same manner used for floor assemblies but shall be installed symmetrically on both sides of the wall.
3M COMPANY - Type FS-195+

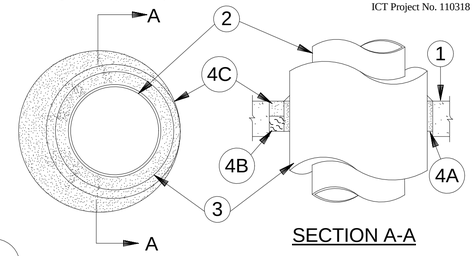
5. Packing Material - Min 1 in. thick mineral wool batt insulation firmly packed into opening with its top surface recessed min 1 in. from top surface of the floor. In wall assemblies, packing material to be firmly packed into opening on both sides of wall and recessed min 1 in. from wall surface. When a single insulated pipe (with wrap strip layer) is installed in a circular through opening and when the max annular space between the wrap strip layer and the sides of the through opening is,in., no forming material is required.

6. Fill, Void or Cavity Materials* - Caulk or Sealant - Applied to fill through opening to a min depth of 1 in. In floor assemblies, fill material to be installed flush with top surface of floor. In wall assemblies, fill material to be installed flush with wall surface on both sides of wall.
3M COMPANY - CP 25WB+ or FB-3000 WT.

(Note - W Rating applies only when FB-3000 WT is used.)
*Bearing the UL Classification Mark
Last Updated on 2004-08-23

UL Listed and Classified Products UL Recognized ComponentsProducts Certified for Canada

System No. C-AJ-5080
August 23, 2004
F Rating - 2 Hr
T Rating - 0 Hr
W Rating - Class 1 (See Item 4)



SECTION A-A

4

1. Floor or Wall Assembly - Min 2-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 7-1/2 in.
See Concrete Block (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. Through-Penetrants - One metallic pipe or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes or tubing may be used:

A. Steel Pipe - Nom 4 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. Copper Tubing - Nom 3 in. diam (or smaller) Type L (or heavier) copper tubing.

C. Copper Pipe - Nom 3 in. diam (or smaller) Regular (or heavier) copper pipe.

3. Pipe Insulation - Plastics# - Nom 1/2 to 3/4 in. thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing. An annular space of min,in. to max 1-1/4 in. is required within the firestop system.
See Plastics (QMFZ2) category in the Plastics Recognized Component Directory for names of manufacturers. Any Recognized Component pipe insulation material meeting the above specifications and having a UL 94 Flammability Classification of 94-5VA may be used.

4. Firestop System - The firestop system shall consist of the following:

A. Fill, Void or Cavity Materials* - Wrap Strip - Nom 1/4 in. thick intumescent elastomeric material faced on one side with aluminum foil, supplied in 2 in. wide strips. One nom 2 in. wide strip tightly-wrapped around pipe insulation with the foil side exposed and slid into through opening such that the top edge is flush with top surface of floor or extending a max of 1 in. above the top surface of floor. When insulated pipe is installed in through openings with a max annular space between the insulated pipe and the periphery of the opening of,to...in., the wrap strip layer may be secured in place with pressure-sensitive foil tape. In all other situations, the wrap strip layer shall be secured in place with min No. 18 gauge galv steel tie wire. In wall assemblies, the wrap strip layer is to be installed on the insulated pipe in the same manner used for floor assemblies but shall be installed symmetrically on both sides of the wall.

3M COMPANY - Type FS-195+

B. Packing Material - Min 1 in. thickness of min 4 pcf mineral wool batt insulation tightly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material.

C. Fill, Void or Cavity Material* - Caulk or Sealant - Min 1 in. thickness of fill material applied within annulus, flush with top surface of floor or both surfaces of wall assembly. A min,in. diam bead of caulk shall be applied to edge of wrap strip on the top surface of floor and on both surfaces of wall assembly.
3M COMPANY - CP 25WB+ or FB-3000 WT

(Note - W Rating applies only when FB-3000 WT is used.)
*Bearing the UL Classification Marking
#Bearing the UL Recognition Marking Last Updated on 2004-08-23

UL Listed and Classified Products UL Recognized Components Products Certified for Canada

The details on this page are Copyright © 2008 by Underwriters Laboratories Inc. ® The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered to be Listed and covered under UL's Follow-Up Service. Always look for the Mark on the product.

"Reprinted from the Online Certifications Directory with permission from Underwriters Laboratories Inc."
"Copyright © 2008 Underwriters Laboratories Inc. ® "

1 / E-501 Fire Penetration Details

NOT TO SCALE

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
DESIGNED BY: TSK
CHECKED BY: KJ
DRAWN BY: PS
SUBMITTED BY: TSK
FILE NAME: E501-FIRE PROTECTION DETAILS
PLOT DATE: 5/1/2015 10:26:23 AM
SIZE: 22" x 34"
PLOT SCALE: 3/8" = 1'-0"

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

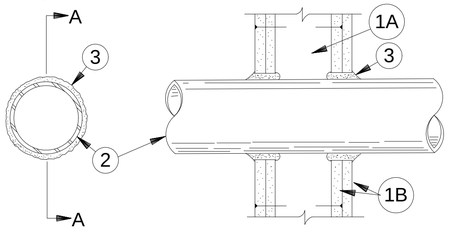
FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
FIRE PENETRATION DETAILS

PLATE REFERENCE NUMBER
E-501
SHEET 261

74278- E-501-

System No. W-L-1001
June 15, 2005
F Ratings - 1, 2, 3 and 4 Hr (See Items 2 and 3)
T Ratings - 0, 1, 2, 3, and 4 Hr (See Item 3)
L Rating At Ambient - less than 1 CFM/sq ft
L Rating At 400 F - less than 1 CFM/sq ft



SECTION A-A

5

1. Wall Assembly - The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs - Wall framing may consist of either wood studs (max 2 h fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross braces. Steel studs to be min 3-5/8 in. (92 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC.

B. Gypsum Board* - Nom1/2 or 5/8 in. (13 or 16 mm) thick, 4 ft. (122 cm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26 in. (660 mm).

2. Through-Penetrant - One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in / (0 mm). (point contact) to max 2 in. (51 mm) Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. Steel Pipe - Nom 24 in. (610 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. Iron Pipe - Nom 24 in. (610 mm) diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in (305 mm) diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.

C. Conduit - Nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 4 in (102 mm) diam (or smaller) steel electrical metallic tubing

D. Copper Tubing - Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing

E. Copper Pipe - Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

F. Through Penetrating Product* - Flexible Metal Piping The following types of steel flexible metal gas piping may be used:

1. Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
OMEGA FLEX INC

2. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
GASTITE, DIV OF TITEFLEX

3. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
WARD MFG INC

3. Fill, Void or Cavity Material* - Caulk or Sealant - Min 5/8, , 1-1/4,1-7/8 and 2-1/2 in. (16, 32, 48 and 64 mm) thickness of caulk for 1, 2, 3 and 4 hr rated assemblies, respectively, applied within annulus, flush with both surfaces of wall. Min 1/4 in. (6 mm) diam bead of caulk applied to gypsum board/penetrant interface at point contact location on both sides of wall. The hourly F Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly T Rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

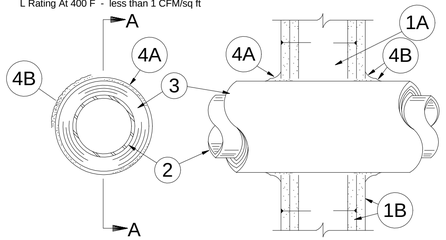
Maximum Pipe or Conduit Diameter Inches	F Rating Hour	F Rating Hour
1 (25)	1 or 2	0+, 1 or 2
1 (25)	3 or 4	3 or 4
4 (102)	1 or 2	0
6 (152)	3 or 4	0
12 (305)	1 or 2	0

+When copper pipe is used, T Rating is 0 h.
3M COMPANY - CP 25WB+ or FB-3000 WT.

*Bearing the UL Classification Mark Last Updated on 2005-06-15

UL Listed and Classified Products UL Recognized Components Products Certified for Canada

System No. W-L-5001
May 19, 2005
F Ratings - 1 and 2 Hr (See Item 1)
T Ratings - 3/4, 1 and 1-1/2 Hr (See Item 3)
L Rating At Ambient - 2 CFM/sq ft
L Rating At 400 F - less than 1 CFM/sq ft



SECTION A-A

6

1. Wall Assembly - The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300, U400 or V400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross braces. Steel studs to be min 3-5/8 in. (92 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC.

B. Gypsum Board* - Nom 5/8 in. (16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Design in the UL Fire Resistance Directory. Max diam of opening is 14-1/2 (368mm) in for wood stud walls and 18 in. (457 mm) for steel stud walls.
The hourly F Rating of the firestop system is 1 hr when installed in a 1 hr fire rated wall and 2 hr when installed in a 2 hr fire rated wall.

2. Through Penetrants - One metallic pipe or tubing to be centered within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used:

A. Steel Pipe - Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. Copper Tubing - Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.

C. Copper Pipe - Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

3. Pipe Covering* - Nom 1 or 2 in. (25 or 51 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m3) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints sealed with metal fasteners or with butt strip tape supplied with the product. When nom 1 in. (25 mm) thick pipe covering is used, the annular space between the pipe covering and the circular cutout in the gypsum wallboard layers on each side of the wall shall be min 1/4 in. (6 mm) to max 3/8 in. (10 mm) When nom 2 in. (51 mm) thick pipe covering is used, the annular space between the pipe covering and the circular cutout in the gypsum board layers on each side of the wall shall be min 1/4 in. (13 mm) to max 3/4 in. (19 mm)
See Pipe and Equipment Covering Materials (BRGU) category in Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
The hourly T Rating of the firestop system 3/4 hr when nom 1 in. (25 mm) thick pipe covering is used. The hourly T Rating of the firestop system is 1 hr and 1-1/2 hr when nom 2 in. (52 mm) thick pipe covering is used with 1 hr and 2 hr fire rated walls, respectively.

4. Firestop System - Installed symmetrically on both sides of wall assembly. The details of the firestop system shall be as follows:

A. Fill, Void or Cavity Materials* - Wrap Strip - Nom 1/4 in. (6 mm) thick intumescent elastomeric material laced on one side with aluminum foil, supplied in 2 in. (51 mm) wide strips. Nom 2 in. (51 mm) wide strip tightly wrapped around pipe covering (foil side out) with seam butted. Wrap strip layer securely bound with steel wire or aluminum foil tape and slid into annular space approx 1-1/4 in. (32 mm) such that approx 3/4 in. (19 mm) of the wrap strip width protrudes from the wall surface. One layer of wrap strip is required when nom 1 in. (25 mm) thick pipe covering is used. Two layers of wrap strip are required when nom 2 in. (51 mm) thick pipe covering is used.

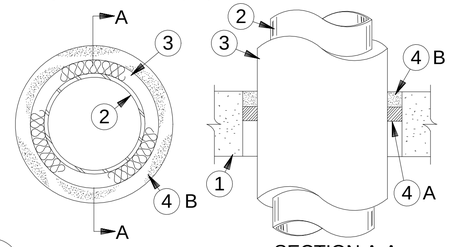
3M COMPANY - FS-195+

B. Fill, Void or Cavity Materials* - Caulk or Sealant — Min,in. (6 mm) diam continuous bead applied to the wrap strip/wall interface and to the exposed edge of the wrap strip layer approx 3/4 in. (19 mm) from the wall surface
3M COMPANY - CP 25WB+, IC 15WB+, FireDam 150+ caulk or FB-3000 WT sealant

*Bearing the UL Classification Mark Last Updated on 2005-05-19

UL Listed and Classified Products UL Recognized Components Products Certified for Canada

System No. C-AJ-5001
March 05, 2007
F Ratings - 1-1/2, 2 and 3 Hr (See Item 4)
T Ratings - 0, 1/2, 3/4 and 1 Hr (See Items 1A and 4)
L Rating At Ambient - 2 CFM per sq ft
L Rating At 400 F - less than 1 CFM per sq ft



SECTION A-A

7

1. Floor or Wall Assembly - Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/.m3) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 18 in. (457 mm)
See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

1A. Steel Sleeve - (Optional, not shown) - Nom 10 in. (254 mm) (or smaller) Schedule 10 (or heavier) steel sleeve cast or grouted into floor or wall assembly. Sleeve may extend a max of 2 in. (51 mm) above top of floor or beyond either surface of wall. T Rating is 0 Hr when sleeve is used.

2. Through Penetrant - Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper pipe, nom 12 in. (305 mm) diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in. (305 mm) diam (or smaller) Class 50 (or heavier) ductile iron pressure pipe or nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe centered in the opening and rigidly supported on both sides of the floor or wall assembly.

3. Pipe Covering* - Nom 1/2 to 2 in. (13 to 51 mm) thick hollow cylindrical heavy density (min. 3.5 pcf or 56 kg/m3) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt strip tape supplied with the product.
See Pipe and Equipment Covering - Materials* (BRGU) category in Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

4. Firestop System - The details of the firestop system shall be as follows:

A. Packing Material - Min 1 in. (25 mm) thickness of firmly packed mineral wool batt insulation used as a permanent form. Packing material to be recessed from top surface of floor or sleeve or from both surfaces of wall as required to accommodate the required thickness of caulk fill material (Item B).

B. Fill, Void or Cavity Material* - Caulk or Sealant - Applied to fill the annular space flush with the top surface of the floor or sleeve or flush with both surfaces of wall. When nom pipe covering thickness is 2 in. (51 mm), min thickness of caulk fill material is 2 in. (51 mm). When nom pipe covering thickness is 1-1/2 in. (38 mm) or less, min thickness of caulk fill material is 1 in. (25 mm). The hourly F and T Ratings of the firestop system are dependent upon the thickness of the floor or wall, the size of pipe, the thickness of pipe covering material and the size of the annular space (between the pipe covering material and the edge of the circular through opening), as shown in the following table:

Minimum Floor or Wall Thickness In.	Maximum Pipe Diameter Inches	Nominal Pipe Covering Thkns In.	Annular Space Inches	F Rating Hour	T Rating Hour
2-1/2 (64)	4 (102)	1 or 1-1/2 (25 or 38)	1/2 to 2-3/8(13 to 60)	2	1
4-1/2 (114)	4 (102)	2 (51)	1/4 to 3-5/8(6 to 92)	2	1-1/2
2-1/2 (64)	12 (305)	1 (25)	1/2 to 1-1/2(13 to 38)	2	1/2
4-1/2 (114)	12 (305)	1 (25)	1/2 to 2-3/8(13 to 60)	3	1
2-1/2 (64)	12 (305)	1/2 (13)	1/2 to 2-3/8(13 to 60)	2	0

3M COMPANY - CP 25WB+ or FB-3000 WT

*Bearing the UL Classification Mark Last Updated on 2007-03-05

UL Listed and Classified Products UL Recognized Components Products Certified for Canada

The details on this page are Copyright © 2008 by Underwriters Laboratories Inc. ® The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered to be Listed and covered under UL's Follow-Up Service. Always look for the Mark on the product.

"Reprinted from the Online Certifications Directory with permission from Underwriters Laboratories Inc."
"Copyright © 2008 Underwriters Laboratories Inc. ® "

1 / E-502 Fire Penetration Details
NOT TO SCALE

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC.# AA0003564

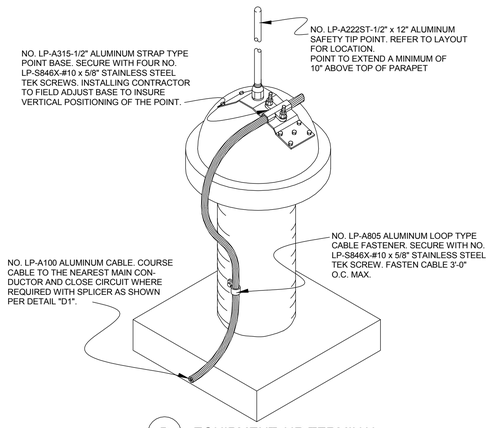
DESIGNED BY: TSK	ISSUE DATE: JUNE 2013
DRAWN BY: PS	CHECKED BY: KJ
SUBMITTED BY: TSK	SOLICITATION NO.: W912HN-09-X-5107
FILE NAME: E-502.dgn	CONTRACT NO.: W912HN-10-D-0049 T.O. 0007
SIZE: 22" x 34"	CATEGORY CODE:
PLOT SCALE: 3/8" = 1'-0"	PLOT DATE: 5/1/2015 10:26:25 AM

FINAL AS-BUILT DRAWINGS

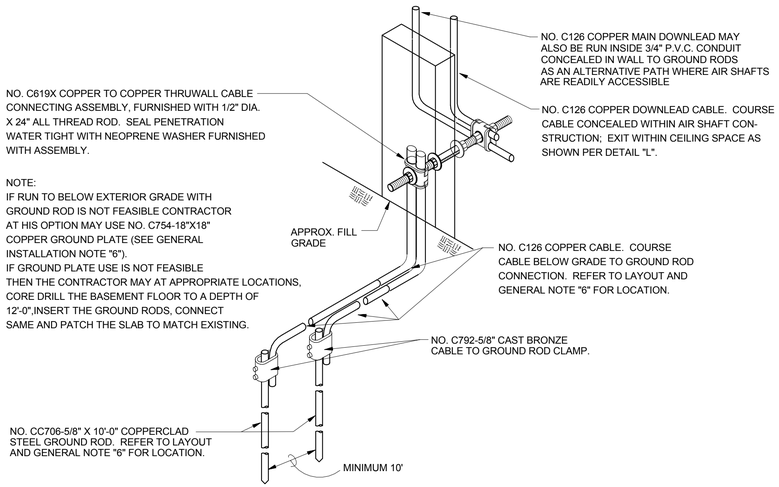
RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
FIRE PENETRATION DETAILS

PLATE REFERENCE NUMBER
E-502
SHEET 262

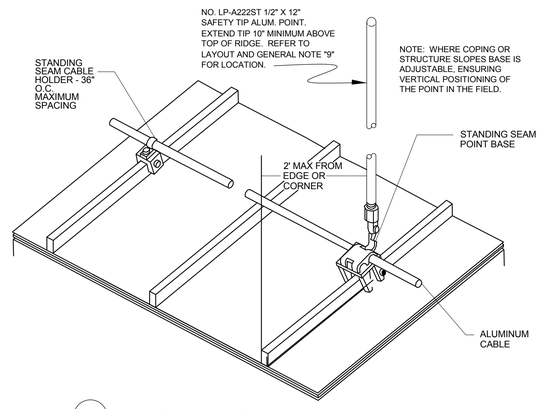
74278- E-502-



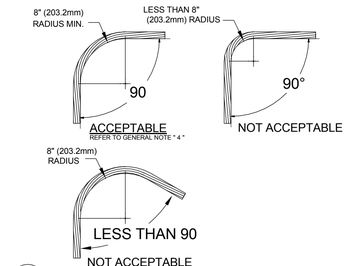
B EQUIPMENT AIR TERMINAL
NOT TO SCALE



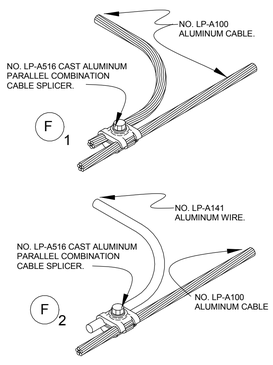
J CONCEALED DOWNLEAD GROUNDING CONN.
NOT TO SCALE



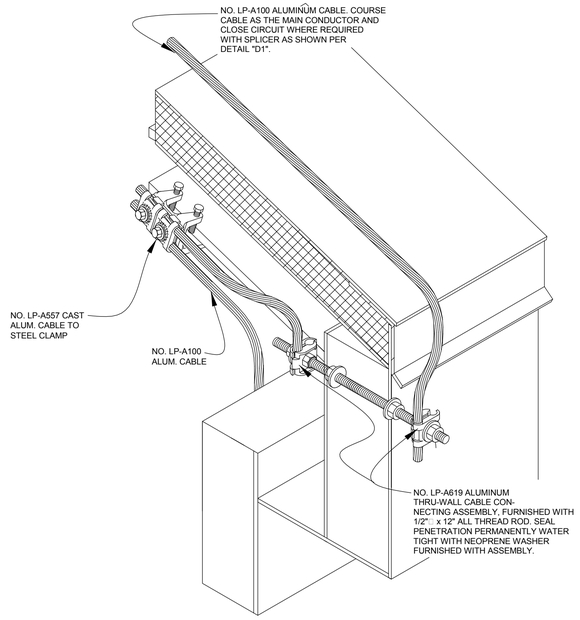
R STANDING SEAM ROOF AIR TERMINAL
NOT TO SCALE



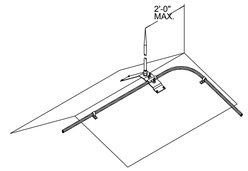
D TYP. CABLE BEND REQUIREMENTS
NOT TO SCALE



F TYP. CABLE SPLICERS
NOT TO SCALE



L THRU-WALL CONN. AT EAVE
NOT TO SCALE



NOTE: THIS DETAIL DEPICTS NO SPECIFIC AREA OR INSTALLATION PROCEDURES SHOWN ON THE LAYOUT. THIS DETAIL ILLUSTRATES TYPICAL AIR TERMINAL PLACEMENT AT RIDGE ENDS.

TYP. AIR TERMINAL PLACEMENT AT RIDGE ENDS
NOT TO SCALE

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.ictthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

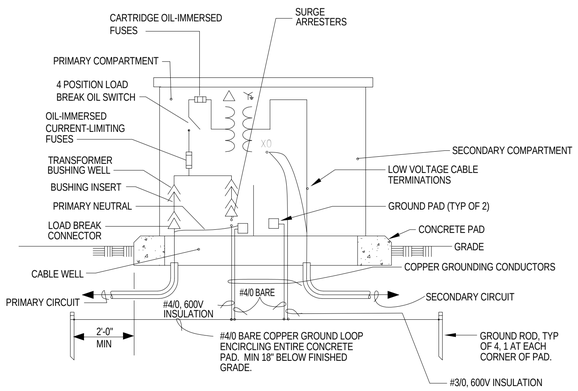
DESIGNED BY: TSK
DRAWN BY: PS
CHECKED BY: KJ
SUBMITTED BY: TSK
FILE NAME: E-503.DGN
SIZE: 22" x 34"
PLOT SCALE: 12" = 1'-0"
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D-5048 T.O. 0007
CATEGORY CODE:
PLOT DATE: 5/1/2015 10:26:30 AM

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
LIGHTNING PROTECTION DETAILS

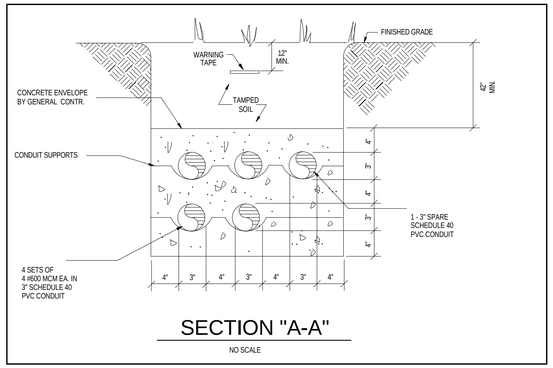
PLATE REFERENCE NUMBER
E-503
SHEET 263

74278- E-503-



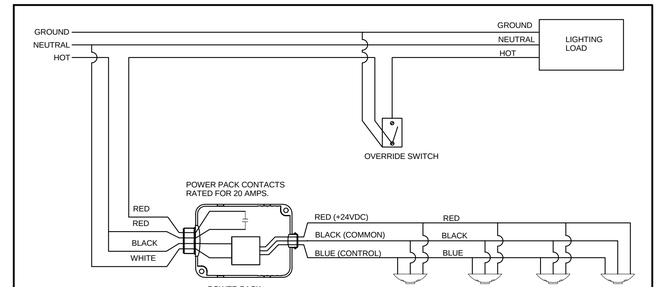
PAD-MOUNTED TRANSFORMER GROUNDING DETAIL

NOT TO SCALE E012



SECTION "A-A"

NO SCALE



NOTE:

1. DO NOT ATTEMPT TO POWER MORE THAN 4 DEVICES (MOTION SENSORS, SLAVE PACKS, ETC.) FROM A SINGLE POWER PACK.

TYPICAL MOTION SENSOR WIRING

NOT TO SCALE

1 / E-504

ELECTRICAL DETAILS

NOT TO SCALE

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

FINAL AS-BUILT DRAWINGS

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.ictthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

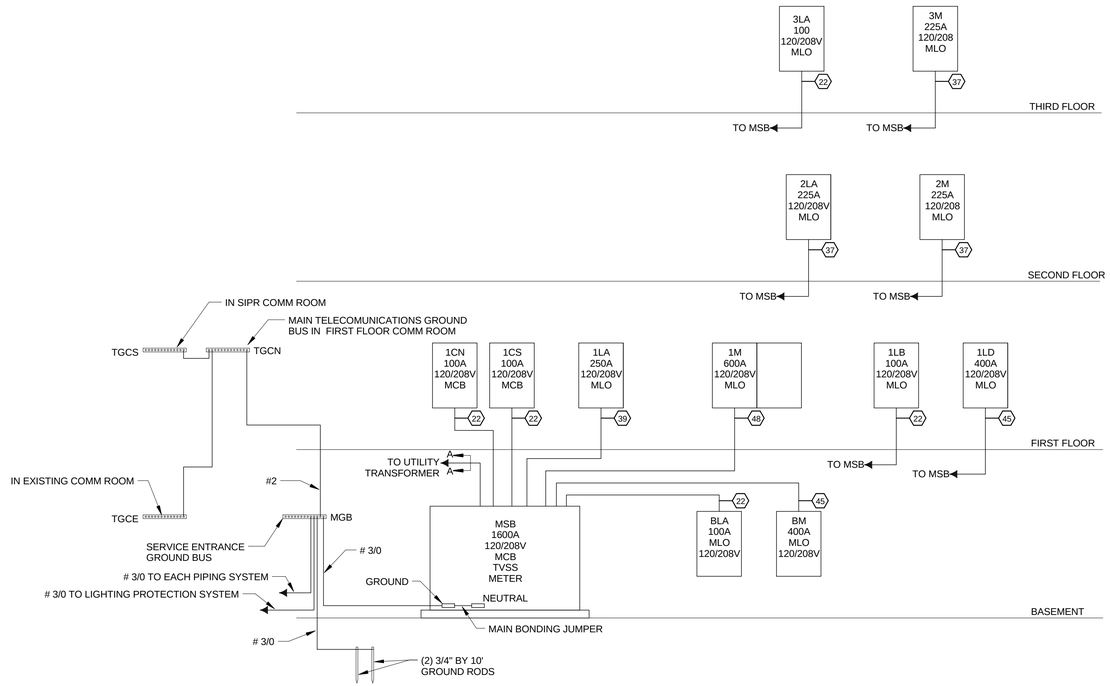
STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

DESIGNED BY: TSK
DRAWN BY: PS
CHECKED BY: KJ
SUBMITTED BY: TSK
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
FILE NAME: E504.DWG
CATEGORY CODE:
SIZE: 22" x 34"
PLOT SCALE: 1" = 10'-0"
PLOT DATE: 5/1/2015 10:26:34 AM

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
ELECTRICAL DETAILS

PLATE REFERENCE NUMBER
E-504
SHEET 264

74278- E-504-



1
E-601

Riser Diagram

NOT TO SCALE

CONDUIT AND WIRE DESIGNATION SCHEDULE

WIRE/BKR MAX AMPS	DESIG #	DESCRIPTION	WIRE/BKR MAX AMPS	DESIG #	DESCRIPTION
20	1	2#12, 1/2"C	200	32	2#3/0, 1#6G,1-1/ 2"C
20	2	2#12, 1#12G, 1/2"C	200	33	3#3/0, 1#6G, 2"C
20	3	3#12,1#12G, 1/2"C	200	34	4#3/0, 1#6G, 2"C
20	4	4#12, 1#12G, 1/2"C	230	35	2#4/0, 1#4G,1-1/ 2"C
30	5	2#10, 1#10G, 3/4"C	230	36	3#4/0, 1#4G, 2"C
30	6	3#10, 1#10G, 3/4"C	230	37	4#4/0, 1#4G,2-1/2"C
30	7	4#10, 1#10G, 3/4"C	255	38	3#250MCM,1#4G, 2"C
40	8	2#8, 1#10G, 3/4"C	255	39	4#250MCM, 1#4G,2-1/2"C
40	9	3#8, 1#10G, 3/4"C	285	40	3#300MCM, 1#4G,2-1/2"C
40	10	4#8, 1#10G, 3/4"C	285	41	4#300MCM,1#4G,3"C
55	11	2#6, 1#10G, 3/4"C	310	42	3#350MCM,1#3G, 2-1/2"C
55	12	3#6, 1#10G, 3/4"C	310	43	4#350MCM, 1#3G, 3"C
55	13	4#6, 1#10G, 1"C	380	44	3#500MCM, 1#3G, 3"C
70	14	2#4, 1#8G, 1"C	380	45	4#500MCM,1#3G,3-1/2"C
70	15	3#4, 1#8G, 1"C	460	46	2 SETS,EA:4#4/0,1#2G.,2-1/2"C
70	16	4#4, 1#8G, 1-1/4"C	510	47	2 SETS,EA:4#250MCM,1#1G,2-1/2"C
85	17	2#3, 1#8G, 1"C	620	48	2 SETS,EA: 4#350MCM,1#1/0G,3"C
85	18	3#3, 1#8G, 1"C	760	49	2 SETS,EA: 4#500MCM, 1#1/0G,3-1/2"C
85	19	4#3, 1#8G, 1-1/4"C	855	50	3 SETS, EA: 4#300MCM,1#2/0G,3"C
95	20	2#2, 1#8G, 1"C	930	51	3 SETS, EA: 4#350MCM,1#2/0G,3"C
95	21	3#2, 1#8G, 1-1/4"C	1005	52	3 SETS, EA: 4#400MCM,1#3/0G,3"C
95	22	4#2, 1#8G, 1-1/4"C	1140	53	3 SETS,EA:4#500MCM,1#3/0G,3-1/2"C
130	23	2#1, 1#6G, 1-1/4"C	1240	54	4 SETS,EA: 4#350MCM,1#4/0G,3"C
130	24	3#1, 1#6G, 1-1/4"C	1675	55	5 SETS,EA:4#400MCM,1#250MCMG,3"C
130	25	4#1, 1#6G, 1-1/2"C	1900	56	5 SETS,EA:4#500MCM,1#250MCMG,3-1/2"C
150	26	2#1/0, 1#6G, 1-1/4"C	2010	57	6 SETS,EA:4#400MCM,1#350MCMG,3-1/2"C
150	27	3#1/0, 1#6G,1-1/2"C	2280	58	6 SETS,EA:4#500MCM,1#350MCMG,3-1/2"C
150	28	4#1/0, 1#6G, 2"C	2660	59	7 SETS,EA:4#500MCM,1#400MCMG,3-1/2"C
175	29	2#2/0, 1#6G, 1-1/2"C	3040	60	8 SETS, EA:4#500MCM,1#500MCMG,3-1/2"C
175	30	3#2/0, 1#6G,1-1/ 2"C	4180	61	11 SETS,EA:4#500MCM,1#600MCMG,3-1/2"C
175	31	4#2/0, 1#6G, 2"C			

CONDUIT SIZE BASED ON THHN/THWN 40% FILL CALCULATION
WIRE SIZE BASED ON NEC 110-14C WITH 60°C AMPACITY TABLES FOR 20A THRU 100 AMPS AND 75°C AMPACITY TABLES FOR VALUES > 100 AMPS.

NOTE!

IN GENERAL, THE ACTUAL BREAKER AMPERAGE SHALL BE EQUAL TO OR NEXT STANDARD SIZE SMALLER THAN THE MAXIMUM WIRE AMPS. EXCEPTIONS SHALL BE MOTOR AND SPECIAL EQUIPMENT BREAKERS WHICH SHALL BE SIZED PER N.E.C. AND VENDOR REQUIREMENTS. OMIT GROUND CONDUCTORS ON SERVICE ENTRANCE FEEDERS (TYPICAL). USE #12 WIRE U.O.N. PRIOR TO ROUGH-IN, CONTRACTOR SHALL COORDINATE BREAKER AND WIRING WITH ACTUAL REQUIREMENTS OF EQUIPMENT BEING FURNISHED FOR THIS SPECIFIC PROJECT.

UNLESS OTHERWISE NOTED, 120V, 20A/1P BREAKERS SHALL UTILIZE #12 AWG CONDUCTORS. EXCEPTION:WHERE BRANCH CIRCUIT IS IN EXCESS OF 100 LINEAR FEET, CONDUCTORS SHALL BE #10 AWG AND WHERE BRANCH CIRCUIT IS IN EXCESS OF 225 LINEAR FEET, CONDUCTORS SHALL BE #8 AWG. EQUIPMENT GROUNDING CONDUCTOR SHALL MATCH PHASE CONDUCTOR FOR 20A/1P BRANCH CIRCUITS.

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

APPR./ DATE / DESCRIPTION / MARK:

DESIGNED BY: TSK
DRAWN BY: PS
CHECKED BY: KJ
SUBMITTED BY: TSK
FILE NAME: E-601.dwg
SIZE: 22" x 34"
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
PLOT SCALE: 1" = 10'-0"
PLOT DATE: 5/1/2015 10:26:35 AM

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS

FL LIC #AA0003564

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
RISER DIAGRAM

PLATE REFERENCE NUMBER
E-601
SHEET 265

74278- E-601-

Switchboard: MSB

Location: ELEC 002
Supply From: UTILITY
Mounting: PAD
Enclosure: TYPE 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 42000
Mains Type: MCB
Mains Rating: 1600 A
MCB Rating: 1600 A

Notes:

CKT	Circuit Description	# of Poles	Trip Rating	Load	Remarks
1	PANEL BLA	3	100 A	5180 VA	
2	PANEL BM	3	400 A	71466 VA	
3	PANEL 1LA	3	250 A	53681 VA	
4	PANEL 1LB	3	100 A	19880 VA	
5	PANEL 1LD	3	400 A	79583 VA	
6	PANEL 1CN	3	100 A	7740 VA	
7	PANEL 1M	3	600 A	143704 VA	
8	PANEL 2LA	3	225 A	59476 VA	
9	PANEL 2M	3	225 A	39481 VA	
10	PANEL 3LA	3	100 A	18066 VA	
11	PANEL 3M	3	225 A	44252 VA	
12	PANEL 1CS	3	100 A	5460 VA	
13					
14					
15					
16					
17	Space	--	--	0 VA	--
18	Space	--	--	0 VA	--
19	Space	--	--	0 VA	--
20	Space	--	--	0 VA	--
				549281 VA	
				1525 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	34241 VA	100.00%	34241 VA		
Motor	217191 VA	90.00%	195472 VA	**Total Conn. Load:**	549281 VA
Other	1805 VA	100.00%	1805 VA	**Total Est. Demand:**	484134 VA
Heating	75000 VA	100.00%	75000 VA	**Total Conn. Current:**	1525 A
Equipment	83984 VA	90.00%	75586 VA	**Total Est. Demand Current:**	1344 A
Receptacle	80060 VA	56.25%	45030 VA		
Electric Clothes Dryer	57000 VA	100.00%	57000 VA		

Notes:
PROVIDE 100% RATED MAIN BREAKER WITH LSI

Branch Panel: 1CN

Location: COMM/ NIPR 113
Supply From: MSB
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

Notes:

CKT	Circuit Description	Demand Code	TRIP	P	A		B		C		P	TRIP	Demand Code	Circuit Description	CKT
1	Data Rm. Conv. Recept.	Recept...	20 A	1	540	360					1	20 A	Recept...	Data Rm. Conv. Recept.	2
3	AV Rack	Equip...	20 A	2			960	960			2	20 A	Equip...	AV Rack	4
5	--	--	--	--					960	960	--	--	--	--	6
7	AV Rack	Equip...	20 A	2	960	360					1	20 A	Recept...	AV Rack	8
9	--	--	--	--			960	360			1	20 A	Recept...	AV Rack	10
11	AV Rack	Recept...	20 A	1					360						12
13															14
15															16
17															18
19															20
21															22
23	Spare	--	20 A	1					0	0	--	--	--	Space	24
25	Spare	--	20 A	1	0	0					--	--	--	Space	26
27	Spare	--	20 A	1			0	0			--	--	--	Space	28
29	Spare	--	20 A	1					0	0	--	--	--	Space	30
			Total Load:		2220 VA		3240 VA		2280 VA						
			Total Amps:		19 A		27 A		19 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	5760 VA	90.00%	5184 VA		
Receptacle	1980 VA	100.00%	1980 VA	**Total Conn. Load:**	7740 VA
				Total Est. Demand:	7164 VA
				Total Conn. Current:	21 A
				Total Est. Demand Current:	20 A

Notes:

Branch Panel: BLA

Location: ELEC 002
Supply From: MSB
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22000
Mains Type: MLO
Mains Rating: 100 A

Notes:

CKT	Circuit Description	Demand Code	TRIP	P	A		B		C		P	TRIP	Demand Code	Circuit Description	CKT
1	Recept. Rm 002	Recept...	20 A	1	540	720					1	20 A	Recept...	Recept. Rm 001	2
3	Recept. Rm 004	Recept...	20 A	1			540	900			1	20 A	Recept...	Recept. Rm 004	4
5	Receptacle FC-1	Recept...	20 A	1					180	1240	1	20 A	Lighting	Lighting Rm 004	6
7	Lighting Rm 002	Lighting	20 A	1	620	500					1	20 A	Equip...	IDS CONTROL	8
9								0			--	--	--	Space	10
11										0	--	--	--	Space	12
13						0					--	--	--	Space	14
15	Spare (20A/1P)	--	0 A	1			0	0			--	--	--	Space	16
17	Spare (20A/1P)	--	0 A	1					0	0	--	--	--	Space	18
			Total Load:		2380 VA		1440 VA		1420 VA						
			Total Amps:		20 A		12 A		12 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	1860 VA	100.00%	1860 VA		
Equipment	500 VA	90.00%	450 VA	**Total Conn. Load:**	5240 VA
Receptacle	2880 VA	100.00%	2880 VA	**Total Est. Demand:**	5190 VA
				Total Conn. Current:	15 A
				Total Est. Demand Current:	14 A

Notes:

Branch Panel: 1CS

Location: SIPR 105
Supply From: MSB
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 18000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

Notes:

CKT	Circuit Description	Demand Code	TRIP	P	A		B		C		P	TRIP	Demand Code	Circuit Description	CKT
1	Data Rm. Conv. Recept.	Recept...	20 A	1	540	360					1	20 A	Recept...	AV Rack	2
3	AV Rack	Equip...	20 A	2			960	960			2	20 A	Equip...	AV Rack	4
5	--	--	--	--					960	960	--	--	--	--	6
7	AV Rack	Recept...	20 A	1	360	360					1	20 A	Recept...	AV Rack	8
9															10
11															12
13															14
15															16
17															18
19															20
21															22
23	Spare	--	20 A	1					0	0	--	--	--	Space	24
25	Spare	--	20 A	1	0	0					--	--	--	Space	26
27	Spare	--	20 A	1			0	0			--	--	--	Space	28
29	Spare	--	20 A	1					0	0	--	--	--	Space	30
			Total Load:		1620 VA		1920 VA		1920 VA						
			Total Amps:		14 A		16 A		16 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	3840 VA	90.00%	3456 VA		
Receptacle	1620 VA	100.00%	1620 VA	**Total Conn. Load:**	5460 VA
				Total Est. Demand:	5076 VA
				Total Conn. Current:	15 A
				Total Est. Demand Current:	14 A

Notes:

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

KEY	
MSB	BLA
1CN	1CS

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

ISSUE DATE: JUNE 2013
DESIGNED BY: TSK
DRAWN BY: PS
CHECKED BY: KJ
SUBMITTED BY: TSK
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
FILE NAME: E-602.DWG
CATEGORY CODE:
SIZE: 22" x 34"
PLOT SCALE:
PLOT DATE: 5/1/2015 10:26:36 AM

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS
FL LIC #AA0003564

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
PANEL SCHEDULES

PLATE REFERENCE NUMBER
E-602
SHEET 266

74278- E-602-

Branch Panel: 1LA

Location: ELEC 125
Supply From: MSB
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10000
Mains Type: MLO
Mains Rating: 250 A

Notes:

CKT	Circuit Description	Demand Code	TRIP	P	A		B		C		P	TRIP	Demand Code	Circuit Description	CKT
1	Corr. 109	Lighting	20 A	1	1020	1490					1	20 A	Lighting	Lighting	2
3	Rm 120	Lighting	20 A	1			1056	1848			1	20 A	Lighting	Rm 118	4
5	Rm 109	Lighting	20 A	1					1696	1430	1	20 A	Lighting	Rm 125	6
7	Corr. 124	Lighting	20 A	1	1026	1037					1	20 A	Lighting	Rm 127	8
9	Recept. Rm 218	Recept...	20 A	1			540	1037			1	20 A	Lighting	Rm 130	10
11	Rm 133	Lighting	20 A	1					1037	1037	1	20 A	Lighting	Rm 136	12
13	Recept. Rm. 102	Recept...	20 A	1	900	900					1	20 A	Recept...	Recept. Rm. 143	14
15	TV Rm 107	Equip...	20 A	1			1500	540			1	20 A	Recept...	Recept. Rm 107	16
17	Recept. Rm 107	Recept...	20 A	1					540	720	1	20 A	Recept...	Recept. Rm. 106	18
19	Recept. Rm 106	Recept...	20 A	1	540	720					1	20 A	Recept...	Recept. Rm. 104	20
21	Recept. Rm 104	Recept...	20 A	1			900	900			1	20 A	Recept...	Recept. Rm. 104	22
23	TV Rm 104	Equip...	20 A	1					1000	540	1	20 A	Recept...	Recept. Rm 111	24
25	Recept. Rm. 111	Recept...	20 A	1	540	720					1	20 A	Recept...	Recept. Rm. 115	26
27	Recept. Rm 103	Recept...	20 A	1			360	1080			1	20 A	Recept...	Recept. Rm 110	28
29	Receptacle	Recept...	20 A	1					720	900	1	20 A	Recept...	Recept. Rm 112	30
31	Recept. Corr. 109	Recept...	20 A	1	1080	720					1	20 A	Recept...	Recept. Rm 114	32
33	Recept. Rm 116	Recept...	20 A	1			720	540			1	20 A	Recept...	Recept. Rm 117	34
35	Recept. Rm. 119	Recept...	20 A	1					720	900	1	20 A	Recept...	Recept. Rm 120	36
37	Recept. Rm 118	Recept...	20 A	1	540	720					1	20 A	Recept...	Recept. Rm 118	38
39	Recept. Rm 118	Recept...	20 A	1			540	860			1	20 A	Recept...	Recept. Rm 118	40
41	Recept. Rm 121B	Recept...	20 A	1					540	540	1	20 A	Recept...	Recept. Rm 121C	42
43	Recept. Rm 125	Recept...	20 A	1	720	720					1	20 A	Recept...	Recept. Rm 126	44
45	Recept. Corr. 124	Recept...	20 A	1			1260	720			1	20 A	Recept...	Recept. Corr. 109	46
47	Screen Rm 104	Equip...	20 A	1					500	500	1	20 A	Equip...	Water Fountain Lobby 100	48
49	Projector Rm. 104	Equip...	20 A	1	1000	180					1	20 A	Recept...	Exterior Recept.	50
51	Recept. Rm 108	Recept...	20 A	1			540	350			1	20 A	Equip...	Restroom 102	52
53	Restroom 121C	Equip...	20 A	1					200	830	1	20 A	Lightin...	Stairwell	54
55	Exterior Lights	Lightin...	20 A	1	735	760					1	20 A	Other	Exterior Lighting	56
57	FA NAL Panel (Lockable. Paint Breaker Red)	Equip...	20 A	1			500	0			--	--	--	Space	58
59	Exterior Recept.	Recept...	20 A	1					180	1500	1	20 A	Equip...	TV Rm 119	60
61	TV Rm 115	Equip...	20 A	1	500	1500					1	20 A	Equip...	TV Rm 116	62
63	AV Rack	Recept...	20 A	1			360	360			1	20 A	Recept...	AV Rack	64
65	Floor Boxes Rm 107	Recept...	20 A	1					720	720	1	20 A	Recept...	Floor Boxes Rm 106	66
67	TV Rm.111	Equip...	20 A	1	500	500					1	20 A	Equip...	FA LOC Panel	68
69	Equipment	Equip...	20 A	1			1200	0			--	--	--	Space	70
71	Spare	--	20 A	1					0	0	--	--	--	Space	72
73	Spare	--	20 A	1	0	0					--	--	--	Space	74
75	Spare	--	20 A	1			0	0			--	--	--	Space	76
77	Spare	--	20 A	1					0	0	--	--	--	Space	78
79	Spare	--	20 A	1	0	0					--	--	--	Space	80
81	Spare	--	20 A	1			0	0			--	--	--	Space	82
83	Spare	--	20 A	1					0	0	--	--	--	Space	84
			Total Load:		19068 VA		17711 VA		17470 VA						
			Total Amps:		159 A		148 A		146 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	11250 VA	90.00%	10125 VA		
Lighting	14234 VA	100.00%	14234 VA	**Total Conn. Load:**	54249 VA
Other	1805 VA	100.00%	1805 VA	**Total Est. Demand:**	44644 VA
Receptacle	26960 VA	68.55%	18480 VA	**Total Conn. Current:**	151 A
				Total Est. Demand Current:	124 A

Notes:

Branch Panel: 1M

Location: ELEC 125
Supply From: MSB
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 18000
Mains Type: MLO
Mains Rating: 600 A

Notes:

CKT	Circuit Description	Demand Code	TRIP	P	A		B		C		P	TRIP	Demand Code	Circuit Description	CKT
1	FC-1 (3#1,#6G,1-1/4"C)	Motor	110 A	3	9731	1144					2	15 A	Motor	CDU-1-1	2
3	--	--	--	--			9731	1144			--	--	--	--	4
5	--	--	--	--					9731	1144	2	15 A	Motor	CDU-1-2	6
7	WSHP-1-1 (3#12,#12G,3/4"C)	Motor	15 A	2	562	1144					--	--	--	--	8
9	--	--	--	--			562	1144			2	15 A	Motor	CDU-1-3	10
11	WSHP-1-2 (3#10,#10G,3/4"C)	Motor	30 A	2					1487	1144	--	--	--	--	12
13	--	--	--	--	1487	2808					2	50 A	Motor	CDU-1-4 (3#6,#10G,3/4"C)	14
15	WSHP-1-3 (3#12,#12G,3/4"C)	Motor	15 A	2			624	2808			--	--	--	--	16
17	--	--	--	--					624	2808	2	50 A	Motor	CDU-2-1 (3#6,#10G,3/4"C)	18
19	WSHP-1-4 (3#12,#12G,3/4"C)	Motor	15 A	2	624	2808					--	--	--	--	20
21	--	--	--	--			624	1144			2	15 A	Motor	CDU-3-1	22
23	WSHP-1-5 (3#12,#12G,3/4"C)	Motor	15 A	2					385	1144	--	--	--	--	24
25	--	--	--	--	385	300					3	15 A	Motor	VF-1-1 - Rm. 144	26
27	WSHP-1-6 (3#12,#12G,3/4"C)	Motor	15 A	2			385	300			--	--	--	--	28
29	--	--	--	--					385	300	--	--	--	--	30
31	WSHP-1-7 (3#12,#12G,3/4"C)	Motor	15 A	2	385	100					1	20 A	Motor	Motorized Damper - Rm. 144	32
33	--	--	--	--			385	5000			3	60 A	Heating	UH-1-1 - Rm. 144 (3#6,#10G,3/4"C)	34
35	WSHP-1-8 (3#12,#12G,3/4"C)	Motor	15 A	2					385	5000	--	--	--	--	36
37	--	--	--	--	385	5000					--	--	--	--	38
39	WSHP-1-9 (3#12,#12G,3/4"C)	Motor	15 A	2			385	300			3	15 A	Motor	VF-1-2 - Rm. 143	40
41	--	--	--	--					385	300	--	--	--	--	42
43	WSHP-1-10 (3#12,#12G,3/4"C)	Motor	15 A	2	385	300					--	--	--	--	44
45	--	--	--	--			385	100			1	20 A	Motor	Motorized Damper - Rm. 143	46
47	WSHP-1-11 (3#12,#12G,3/4"C)	Motor	15 A	2					385	5000	3	60 A	Heating	UH-1-2 - Rm. 144 (3#6,#10G,3/4"C)	48
49	--	--	--	--	385	5000					--	--	--	--	50
51	WSHP-1-12 (3#12,#12G,3/4"C)	Motor	15 A	2			385	5000			--	--	--	--	52
53	--	--	--	--					385	1667	3	20 A	Heating	UH-1-3	54
55	WSHP-1-13 (3#12,#12G,3/4"C)	Motor	15 A	2	749	1667					--	--	--	--	56
57	--	--	--	--			749	1667			--	--	--	--	58
59	WSHP-1-14 (3#12,#12G,3/4"C)	Motor	15 A	2					562	1667	3	20 A	Heating	UH-1-4	60
61	--	--	--	--	562	1667					--	--	--	--	62
63	WSHP-1-15 (3#6,#10G,3/4"C)	Motor	50 A	2			2621	1667			--	--	--	--	64
65	--	--	--	--					2621	4203	3	50 A	Motor	BP-1 - Rm. 103 (3#6,#10G,3/4"C)	66
67	WSHP-1-16 (3#6,#10G,3/4"C)	Motor	50 A	2	2621	4203					--	--	--	--	68
69	--	--	--	--			2621	4203			--	--	--	--	70
71	WSHP-1-17 (3#6,#10G,3/4"C)	Motor	50 A	2					2621	100	1	20 A	Motor	Motorized Damper - Rm. 142	72
73	--	--	--	--	2621	0					1	20 A	--	Spare	74
75	WSHP-1-18 (3#10,#10G,3/4"C)	Motor	30 A	2			1487								76
77	--	--	--	--					1487						78
79	WSHP-1-19 (3#10,#10G,3/4"C)	Motor	30 A	2	1487										80
81	--	--	--	--			1487								82
83	WSHP-1-20 (3#12,#12G,3/4"C)	Motor	15 A	2					624						84
85	--	--	--	--	624										86
87	WSHP-1-21 (3#12,#12G,3/4"C)	Motor	15 A	2			562								88
89	--	--	--	--					562						90
91	Spare	--	20 A	1	0										92
93	Spare	--	20 A	1			0	0			--	--	--	Space	94
95	Spare	--	20 A	1					0	0	--	--	--	Space	96
97	Spare	--	20 A	1	0	0					--	--	--	Space	98
99	Spare	--	20 A	1			0	0			--	--	--	Space	100
101	Spare	--	20 A	1					0	0	--	--	--	Space	102
103	Spare	--	20 A	1	0	0					--	--	--	Space	104
105	Spare	--	20 A	1			0	0			--	--	--	Space	106
107	Spare	--	20 A	1					0	0	--	--	--	Space	108
			Total Load:		49132 VA		47468 VA		47104 VA						
			Total Amps:		410 A		396 A		393 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	103704 VA	90.00%	93334 VA		
Heating	40000 VA	100.00%	40000 VA	**Total Conn. Load:**	143704 VA
				Total Est. Demand:	133334 VA
				Total Conn. Current:	399 A
				Total Est. Demand Current:	370 A

Notes:

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

KEY	
1LA	1M

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.ictthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK | DESCRIPTION | DATE | APPR.

ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-3107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
PLOT DATE: 5/1/2015 10:26:38 AM
DESIGNED BY: TSK
DRAWN BY: PS
CHECKED BY: KJ
SUBMITTED BY: TSK
FILE NAME: E-603.dwg
PLOT SCALE:
SIZE: 22" x 34"

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS

FL LIC #AA0003564

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
PANEL SCHEDULES

PLATE REFERENCE NUMBER
E-603
SHEET 267

74278- E-603-

Branch Panel: 1LB

Location: ELEC 125
Supply From: MSB
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10000
Mains Type: MLO
Mains Rating: 100 A

Notes:

CKT	Circuit Description	Demand Code	TRIP	P	A		B		C		P	TRIP	Demand Code	Circuit Description	CKT
1	Recept. Rm 127	Recept...	20 A	1	720	540					1	20 A	Recept...	Recept. Rm 127	2
3	MICROFRIDGE 127	Equip...	20 A	1			1200	720			1	20 A	Recept...	Recept. Rm 129	4
5	Recept. 129	Recept...	20 A	1					540	1200	1	20 A	Equip...	MICROFRIDGE 129	6
7	Recept. 130	Recept...	20 A	1	720	540					1	20 A	Recept...	Recept. Rm 130	8
9	MICROFRIDGE 130	Equip...	20 A	1			1200	720			1	20 A	Recept...	Recept. Rm 132	10
11	Recept. Rm 132	Recept...	20 A	1					540	1200	1	20 A	Equip...	MICROFRIDGE132	12
13	Recept. Rm 133	Recept...	20 A	1	720	540					1	20 A	Recept...	Recept. Rm 133	14
15	MICROFRIDGE 133	Equip...	20 A	1			1200	720			1	20 A	Recept...	Recept. Rm 135	16
17	Recept. Rm 135	Recept...	20 A	1					540	1200	1	20 A	Equip...	MICROFRIDGE 135	18
19	Recept. Rm 136	Recept...	20 A	1	720	540					1	20 A	Recept...	Recept. Rm 136	20
21	MIRCROFRIDGE 136	Equip...	20 A	1			1200	720			1	20 A	Recept...	Recept. Rm 138	22
23	Recept. Rm 138	Recept...	20 A	1					540	1200	1	20 A	Equip...	MICROFRIDGE 138	24
25	Module Restrooms	Equip...	20 A	1	200										26
27															28
29															30
31															32
33															34
35	Spare	--	20 A	1					0	0	--	--	--	Space	36
37	Spare	--	20 A	1	0	0					--	--	--	Space	38
39	Spare	--	20 A	1			0	0			--	--	--	Space	40
41	Spare	--	20 A	1					0	0	--	--	--	Space	42
			Total Load:		5240 VA		7680 VA		6960 VA						
			Total Amps:		44 A		66 A		60 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	9800 VA	90.00%	8820 VA		
Receptacle	10080 VA	99.60%	10040 VA	**Total Conn. Load:**	19880 VA
				Total Est. Demand:	18860 VA
				Total Conn. Current:	55 A
				Total Est. Demand Current:	52 A

Notes:

Branch Panel: 1LD

Location: LAUNDRY 139
Supply From: MSB
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10000
Mains Type: MLO
Mains Rating: 400 A

Notes:

CKT	Circuit Description	Demand Code	TRIP	P	A		B		C		P	TRIP	Demand Code	Circuit Description	CKT
1	Lighting Rm 141	Lighting	20 A	1	496	2375					2	30 A	Electric...	Electric Clothes Dryer(2#10,#10G.,3/4"C.)	2
3	Electric Clothes Dryer(2#10,#10G.,3/4"C.)	Electric...	30 A	2			2375	2375			--	--	--	--	4
5	--	--	--	--					2375	2375	2	30 A	Electric...	Electric Clothes Dryer(2#10,#10G.,3/4"C.)	6
7	Electric Clothes Dryer(2#10,#10G.,3/4"C.)	Electric...	30 A	2	2375	2375					--	--	--	--	8
9	--	--	--	--			2375	2375			2	30 A	Electric...	Electric Clothes Dryer(2#10,#10G.,3/4"C.)	10
11	Electric Clothes Dryer(2#10,#10G.,3/4"C.)	Electric...	30 A	2					2375	2375	--	--	--	--	12
13	--	--	--	--	2375	2375					2	30 A	Electric...	Electric Clothes Dryer(2#10,#10G.,3/4"C.)	14
15	Electric Clothes Dryer(2#10,#10G.,3/4"C.)	Electric...	30 A	2			2375	2375			--	--	--	--	16
17	--	--	--	--					2375	2375	2	30 A	Electric...	Electric Clothes Dryer(2#10,#10G.,3/4"C.)	18
19	Electric Clothes Dryer(2#10,#10G.,3/4"C.)	Electric...	30 A	2	2375	2375					--	--	--	--	20
21	--	--	--	--			2375	2375			2	30 A	Electric...	Electric Clothes Dryer(2#10,#10G.,3/4"C.)	22
23	Electric Clothes Dryer(2#10,#10G.,3/4"C.)	Electric...	30 A	2					2375	2375	--	--	--	--	24
25	--	--	--	--	2375	1656					1	20 A	Equip...	Washer	26
27	Washer	Equip...	20 A	1			1656	1656			1	20 A	Equip...	Washer	28
29	Washer	Equip...	20 A	1					1656	1656	1	20 A	Equip...	Washer	30
31	Washer	Equip...	20 A	1	1656	1656					1	20 A	Equip...	Washer	32
33	Washer	Equip...	20 A	1			1656	1656			1	20 A	Equip...	Washer	34
35	Washer	Equip...	20 A	1					1656	1656	1	20 A	Equip...	Washer	36
37	Washer	Equip...	20 A	1	1656	540					1	20 A	Recept...	Recept. Rm 142	38
39	FA Panel (Lockabel. Paint Breaker Red.)	Equip...	20 A	1			500	0			--	--	--	Space	40
41										0	--	--	--	Space	42
43						0					--	--	--	Space	44
45	Equipment	Equip...	20 A	1			1200	0			--	--	--	Space	46
47	Spare	--	20 A	1					0	0	--	--	--	Space	48
49	Spare	--	20 A	1	0	0					--	--	--	Space	50
51	Spare	--	20 A	1			0	0			--	--	--	Space	52
53	Spare	--	20 A	1					0	0	--	--	--	Space	54
			Total Load:		26660 VA		27324 VA		25624 VA						
			Total Amps:		223 A		229 A		214 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Electric Clothes Dryer	57000 VA	100.00%	57000 VA		
Equipment	21572 VA	90.00%	19415 VA	**Total Conn. Load:**	79608 VA
Lighting	496 VA	100.00%	496 VA	**Total Est. Demand:**	77451 VA
Receptacle	540 VA	100.00%	540 VA	**Total Conn. Current:**	221 A
				Total Est. Demand Current:	215 A

Notes:

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

KEY	
1LB	1LD

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

APPR./ DATE / DESCRIPTION / MARK

ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-S107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
PLOT DATE: 5/1/2015 10:26:39 AM
DESIGNED BY: TSK
DRAWN BY: PS
CHECKED BY: KJ
SUBMITTED BY: TSK
FILE NAME: E604.DGN
PLOT SCALE:
SIZE: 22" x 34"

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS

FL LIC #AA0003564

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
PANEL SCHEDULES

PLATE REFERENCE NUMBER
E-604
SHEET 268

74278- E-604-

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

Branch Panel: 2LA

Location: STORAGE 202
Supply From: MSB
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 18000
Mains Type: MLO
Mains Rating: 225 A

Notes:

CKT	Circuit Description	Demand Code	TRIP	P	A		B		C		P	TRIP	Demand Code	Circuit Description	CKT
1	Recept. Rm 206	Recept...	20 A	1	720	540					1	20 A	Recept...	Recept. Rm 206	2
3	MICROFRIDGE 206	Equip...	20 A	1			1200	720			1	20 A	Recept...	Recept. Rm 204	4
5	Recept. Rm 208	Recept...	20 A	1					540	1200	1	20 A	Equip...	MICROFRIDGE 208	6
7	Recept. Rm 209	Recept...	20 A	1	720	540					1	20 A	Recept...	Recept. Rm 209	8
9	MICROFRIDGE 209	Equip...	20 A	1			1200	720			1	20 A	Recept...	Recept. Rm 211	10
11	Recept. Rm 211	Recept...	20 A	1					540	1200	1	20 A	Equip...	MICROFRIDGE 211	12
13	Recept. Rm 212	Recept...	20 A	1	720	540					1	20 A	Recept...	Recept. Rm 212	14
15	MICROFRIDGE 212	Equip...	20 A	1			1200	720			1	20 A	Recept...	Recept. Rm 214	16
17	Recept. Rm 214	Recept...	20 A	1					540	1200	1	20 A	Equip...	MICROFRIDGE 214	18
19	Recept. Rm 215	Recept...	20 A	1	720	540					1	20 A	Recept...	Recept. Rm 215	20
21	MICROFRIDGE 215	Equip...	20 A	1			1200	720			1	20 A	Recept...	Recept. Rm 217	22
23	Recept. Rm 217	Recept...	20 A	1					540	1200	1	20 A	Equip...	MICROFRIDGE 217	24
25	Recept. Rm 218	Recept...	20 A	1	720	1200					1	20 A	Equip...	MICROFRIDGE 218	26
27	Recept. Rm 220	Recept...	20 A	1			720	540			1	20 A	Recept...	Recept. Rm 220	28
29	MICROFIDGE 220	Equip...	20 A	1					1200	720	1	20 A	Recept...	Recept. Rm 221	30
31	Recept. Rm 221	Recept...	20 A	1	540	1200					1	20 A	Equip...	MICROFIDGE 221	32
33	Recept. Rm 223	Recept...	20 A	1			720	540			1	20 A	Recept...	Recept. Rm 223	34
35	MICROFRIDGE 223	Equip...	20 A	1					1200	720	1	20 A	Recept...	Recept. Rm 224	36
37	Recept. Rm 224	Recept...	20 A	1	540	1200					1	20 A	Equip...	MICROFRIDGE 224	38
39	Recept. Rm 225	Recept...	20 A	1			720	540			1	20 A	Recept...	Recept. Rm 225	40
41	MICROFRIDGE 225	Equip...	20 A	1					1200	720	1	20 A	Recept...	Recept. Rm 227	42
43	Recept. Rm 227	Recept...	20 A	1	540	1200					1	20 A	Equip...	MICROFRIDGE 227	44
45	Recept. Rm 228	Recept...	20 A	1			720	540			1	20 A	Recept...	Recept. Rm 228	46
47	MICROFRIDGE 228	Equip...	20 A	1					1200	720	1	20 A	Recept...	Recept. Rm 230	48
49	Recept. Rm 230	Recept...	20 A	1	540	1200					1	20 A	Equip...	MICROFRIDGE 230	50
51	Recept. Rm 232	Recept...	20 A	1			720	540			1	20 A	Recept...	Recept. Rm 232	52
53	MICROFRIDGE 232	Equip...	20 A	1					1200	1037	1	20 A	Lighting	Lighting Rm 206	54
55	Lighting Rm 209	Lighting	20 A	1	913	1037					1	20 A	Lighting	Lighting Rm 212	56
57	Lighting Rm 215	Lighting	20 A	1			1037	1037			1	20 A	Lighting	Lighting Rm 218	58
59	Lighting Rm 221	Lighting	20 A	1					1037	1037	1	20 A	Lighting	Lighting Rm 224	60
61	Lighting Rm 227	Lighting	20 A	1	1037	1037					1	20 A	Lighting	Lighting Rm 230	62
63	Recept. Rm 203	Recept...	20 A	1			720	720			1	20 A	Recept...	Recept. Rm 202	64
65	Recept. Coor. 205	Recept...	20 A	1					900	1260	1	20 A	Recept...	Recept. Corr. 205	66
67	Lighting Corr. 205	Lighting	20 A	1	1080	480					1	20 A	Lighting	Lighting Corr. 205	68
69	Module Restrooms	Equip...	20 A	1			450	500			1	20 A	Equip...	FA LOC Panel	70
71	Exterior Recpt.	Recept...	20 A	1					360	500	1	20 A	Equip...	FA NAL Panel (Lockable. Paint Breaker Red)	72
73	Spare	--	20 A	1	0	0					--	--	--	Space	74
75	Spare	--	20 A	1			0	0			--	--	--	Space	76
77	Spare	--	20 A	1					0	0	--	--	--	Space	78
79	Spare	--	20 A	1	0	0					--	--	--	Space	80
81	Spare	--	20 A	1			0	0			--	--	--	Space	82
83	Spare	--	20 A	1					0	0	--	--	--	Space	84
			Total Load:		19504 VA		18444 VA		21971 VA						
			Total Amps:		164 A		154 A		184 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	23050 VA	90.00%	20745 VA		
Lighting	10769 VA	100.00%	10769 VA	**Total Conn. Load:**	59919 VA
Receptacle	26100 VA	69.16%	18050 VA	**Total Est. Demand:**	49564 VA
				Total Conn. Current:	166 A
				Total Est. Demand Current:	138 A

Notes:

Branch Panel: 2M

Location: STORAGE 202
Supply From: MSB
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 18000
Mains Type: MLO
Mains Rating: 225 A

Notes:

CKT	Circuit Description	Demand Code	TRIP	P	A		B		C		P	TRIP	Demand Code	Circuit Description	CKT
1	DOAU-1 (3#3,#8G,1"C)	Motor	90 A	3	8166	385					2	15 A	Motor	WSHP-2-10 (3#12,#12G,3/4"C)	2
3	--	--	--	--			8166	385			--	--	--	--	4
5	--	--	--	--					8166	385	2	15 A	Motor	WSHP-2-11 (3#12,#12G,3/4"C)	6
7	WShP-2-1 (3#12,#12G,3/4"C)	Motor	15 A	2	562	385					--	--	--	--	8
9	--	--	--	--			562	385			2	15 A	Motor	WSHP-2-12 (3#12,#12G,3/4"C)	10
11	WSHP-2-2 (3#12,#12G,3/4"C)	Motor	15 A	2					385	385	--	--	--	--	12
13	--	--	--	--	385	385					2	15 A	Motor	WSHP-2-13 (3#12,#12G,3/4"C)	14
15	WSHP-2-3 (3#12,#12G,3/4"C)	Motor	15 A	2			385	385			--	--	--	--	16
17	--	--	--	--					385	385	2	15 A	Motor	WSHP-2-14 (3#12,#12G,3/4"C)	18
19	WSHP-2-4 (3#12,#12G,3/4"C)	Motor	15 A	2	385	385					--	--	--	--	20
21	--	--	--	--			385	385			2	15 A	Motor	WSHP-2-15 (3#12,#12G,3/4"C)	22
23	WSHP-2-5 (3#12,#12G,3/4"C)	Motor	15 A	2					385	385	--	--	--	--	24
25	--	--	--	--	385	385					2	15 A	Motor	WSHP-2-16 (3#12,#12G,3/4"C)	26
27	WSHP-2-6 (3#12,#12G,3/4"C)	Motor	15 A	2			385	385			--	--	--	--	28
29	--	--	--	--					385	385	2	15 A	Motor	WSHP-2-17 (3#12,#12G,3/4"C)	30
31	WSHP-2-7 (3#12,#12G,3/4"C)	Motor	15 A	2	385	385					--	--	--	--	32
33	--	--	--	--			385	385			2	15 A	Motor	WSHP-2-18 (3#12,#12G,3/4"C)	34
35	WSHP-2-8 (3#12,#12G,3/4"C)	Motor	15 A	2					385	385	--	--	--	--	36
37	--	--	--	--	385	385					2	15 A	Motor	WSHP-2-19 (3#12,#12G,3/4"C)	38
39	WSHP-2-9 (3#12,#12G,3/4"C)	Motor	15 A	2			385	385			--	--	--	--	40
41	--	--	--	--					385						42
43															44
45	Spare	--	20 A	1			0								46
47	Spare	--	20 A	1					0	0	--	--	--	Space	48
49	Spare	--	20 A	1	0	0					--	--	--	Space	50
51	Spare	--	20 A	1			0	0			--	--	--	Space	52
53	Spare	--	20 A	1					0	0	--	--	--	Space	54
			Total Load:		13348 VA		13348 VA		12786 VA						
			Total Amps:		112 A		112 A		107 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	39481 VA	90.00%	35533 VA		
				Total Conn. Load:	39481 VA
				Total Est. Demand:	35533 VA
				Total Conn. Current:	110 A
				Total Est. Demand Current:	99 A

Notes:

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR, I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

KEY	
2LA	2M

APPR./ DATE / DESCRIPTION / MARK

ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-S107
CONTRACT NO.: W912HN-10-D-0049 T.O. 0007
CATEGORY CODE:
PLOT DATE: 5/1/2015 10:26:40 AM
DESIGNED BY: TSK
DRAWN BY: PS
CHECKED BY: KJ
SUBMITTED BY: TSK
FILE NAME: E605.dgn
SIZE: 22" x 34"
PLOT SCALE:

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
PANEL SCHEDULES

PLATE REFERENCE NUMBER
E-605
SHEET 269

74278- E-605-

Branch Panel: BM

Location: ELEC 002
Supply From: MSB
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 25000
Mains Type: MLO
Mains Rating: 400 A

Notes:

CKT	Circuit Description	Demand Code	TRIP	P	A		B		C		P	TRIP	Demand Code	Circuit Description	CKT
1	SP-1 Control Panel (2#10,#10G,3/4"C)	Motor	25 A	1	2352	696					1	20 A	Motor	VF-0-1	2
3	HWP-1	Motor	20 A	3			1320	200			1	20 A	Equip...	TMV-1	4
5	--	--	--	--					1320	1500	1	20 A	Equip...	B-1	6
7	--	--	--	--	1320	1320					3	20 A	Motor	BRP-1	8
9	HWP-2	Motor	20 A	3			1320	1320			--	--	--	--	10
11	--	--	--	--					1320	1320	--	--	--	--	12
13	--	--	--	--	1320	528					1	15 A	Motor	RP-1	14
15	VF-0-2	Motor	15 A	1			696	1656			1	25 A	Motor	WH-1 Pump No. 1 (2#10,#10G,3/4"C)	16
17	UH-0-1	Heating	20 A	3					1667	1656	1	25 A	Motor	WH-1 Pump No. 2 (2#10,#10G,3/4"C)	18
19	--	--	--	--	1667	660					1	20 A	Equip...	WH-1 Controls	20
21	--	--	--	--			1667	1656			1	25 A	Motor	WH-2 Pump No. 1 (2#10,#10G,3/4"C)	22
23	UH-0-2 (3#6,#10G,3/4"C)	Heating	60 A	3					5000	1656	1	25 A	Motor	WH-2 Pump No. 2 (2#10,#10G,3/4"C)	24
25	--	--	--	--	5000	660					1	20 A	Equip...	WH-2 Controls	26
27	--	--	--	--			5000	100			1	15 A	Motor	Motorized Damper	28
29	UH-0-3 (3#6,#10G,3/4"C)	Heating	60 A	3					5000	1144	2	15 A	Motor	CDU-0-1	30
31	--	--	--	--	5000	1144					--	--	--	--	32
33	--	--	--	--			5000	1144			2	15 A	Motor	CDU-0-2	34
35	FRCP-1	Motor	15 A	3					576	1144	--	--	--	--	36
37	--	--	--	--	576	1487					2	30 A	Motor	WSHP-0-1 (3#10,#10G,3/4"C)	38
39	--	--	--	--			576	1487			--	--	--	--	40
41	Dehumidifier - Rm. 004	Equip...	20 A	1					792						42
43	FA Panel (LOCKABLE. PAINT BREAKER RED.)	Equip...	20 A	1	500										44
45								0			1	20 A	--	Spare	46
47	Space	--	--	--					0	0	1	20 A	--	Spare	48
49	Space	--	--	--	0	0					1	20 A	--	Spare	50
51	Space	--	--	--			0	0			1	20 A	--	Spare	52
53	Space	--	--	--					0	0	1	20 A	--	Spare	54
			Total Load:		24230 VA		23142 VA		24095 VA						
			Total Amps:		203 A		193 A		202 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	4312 VA	90.00%	3881 VA		
Heating	35000 VA	100.00%	35000 VA	**Total Conn. Load:**	71466 VA
Motor	32154 VA	90.00%	28939 VA	**Total Est. Demand:**	67819 VA
				Total Conn. Current:	198 A
				Total Est. Demand Current:	188 A

Notes:

Branch Panel: 3LA

Location: ELEC 305
Supply From: MSB
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10000
Mains Type: MLO
Mains Rating: 100 A

Notes:

CKT	Circuit Description	Demand Code	TRIP	P	A		B		C		P	TRIP	Demand Code	Circuit Description	CKT
1	Recept. Rm 303	Recept...	20 A	1	540	540					1	20 A	Recept...	Recept. Rm 303	2
3	Recept. Rm 303	Recept...	20 A	1			360	540			1	20 A	Recept...	Recept. Rm 305	4
5	Receptacle	Recept...	20 A	1					360	900	1	20 A	Recept...	Recept. Rm 304	6
7	Recept. Attic	Recept...	20 A	1	900	1080					1	20 A	Recept...	Recept. Attic	8
9	Recept. Attic	Recept...	20 A	1			900	1080			1	20 A	Recept...	Recept. Attic	10
11	Recept. Attic	Recept...	20 A	1					1080	1080	1	20 A	Recept...	Recept. Attic	12
13	Recept. Attic	Recept...	20 A	1	180	1056					1	20 A	Lighting	Lighting Rm 303	14
15	Lighting Corr. 300	Lighting	20 A	1			366	938			1	20 A	Lighting	Lighting Attic	16
17	Lighting Attic	Lighting	20 A	1					1190	1190	1	20 A	Lighting	Lighting Attic	18
19	Lighting Attic	Lighting	20 A	1	1190	952					1	20 A	Lighting	Lighting Attic	20
21	Restroom 303	Equip...	20 A	1			500	360			1	20 A	Recept...	Recept. Rm 300	22
23	FA LOC Panel	Equip...	20 A	1					500	500	1	20 A	Equip...	FA NAL Panel (Lockable. Paint Breaker Red)	24
25															26
27															28
29															30
31															32
33															34
35	Spare	--	20 A	1					0	0	--	--	--	Space	36
37	Spare	--	20 A	1	0	0					--	--	--	Space	38
39	Spare	--	20 A	1			0	0			--	--	--	Space	40
41	Spare	--	20 A	1					0	0	--	--	--	Space	42
			Total Load:		6438 VA		5044 VA		6800 VA						
			Total Amps:		55 A		42 A		58 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	6882 VA	100.00%	6882 VA		
Equipment	1500 VA	90.00%	1350 VA	**Total Conn. Load:**	18282 VA
Receptacle	9900 VA	100.00%	9900 VA	**Total Est. Demand:**	18132 VA
				Total Conn. Current:	51 A
				Total Est. Demand Current:	50 A

Notes:

Branch Panel: 3M

Location: ELEC 305
Supply From: MSB
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10000
Mains Type: MLO
Mains Rating: 225 A

Notes:

CKT	Circuit Description	Demand Code	TRIP	P	A		B		C		P	TRIP	Demand Code	Circuit Description	CKT
1	DOAU-2 (3#2,#8G,1-1/4"C)	Motor	100 A	3	9247	385					2	15 A	Motor	WSHP-3-1 (3#12,#12G,3/4"C)	2
3	--	--	--	--			9247	385			--	--	--	--	4
5	--	--	--	--					9247	2174	2	50 A	Motor	WSHP-3-2 (3#6,#10G,3/4"C)	6
7	Motorized Dampers - Roof	Motor	20 A	1	100	2174					--	--	--	--	8
9	Spare	--	20 A	1			0	2174			2	50 A	Motor	WSHP-3-3 (3#6,#10G,3/4"C)	10
11	Spare	--	20 A	1					0	2174	--	--	--	--	12
13	Spare	--	20 A	1	0	2174					2	50 A	Motor	WSHP-3-4 (3#6,#10G,3/4"C)	14
15								2174			--	--	--	--	16
17										200	1	20 A	Motor	Motorized Dampers	18
19	Space	--	--	--	0	500					1	20 A	Equip...	Dry Pipe Control Panel	20
21	Compressor (2#10, #10G, 3/4" C.)	Equip...	30 A	1			1900	0			--	--	--	Space	22
23	Space	--	--	--					0	0	--	--	--	Space	24
			Total Load:		14579 VA		15879 VA		13794 VA						
			Total Amps:		122 A		133 A		115 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	41852 VA	90.00%	37667 VA		
Equipment	2400 VA	90.00%	2160 VA	**Total Conn. Load:**	44252 VA
				Total Est. Demand:	39827 VA
				Total Conn. Current:	123 A
				Total Est. Demand Current:	111 A

Notes:

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

KEY	
BM	3M
	3LA

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.ictthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

APPR.
DATE
DESCRIPTION
MARK

ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D-5048 T.O. 0007
CATEGORY CODE:
DESIGNED BY: TSK
CHECKED BY: KJ
DRAWN BY: PS
SUBMITTED BY: TSK
FILE NAME: E-606.dgn
PLOT SCALE:
PLOT DATE: 5/1/2015 10:26:41 AM
SIZE: 22" X 34"

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS
FL LIC #AA0003564

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
PANEL SCHEDULES

PLATE REFERENCE NUMBER
E-606
SHEET 270

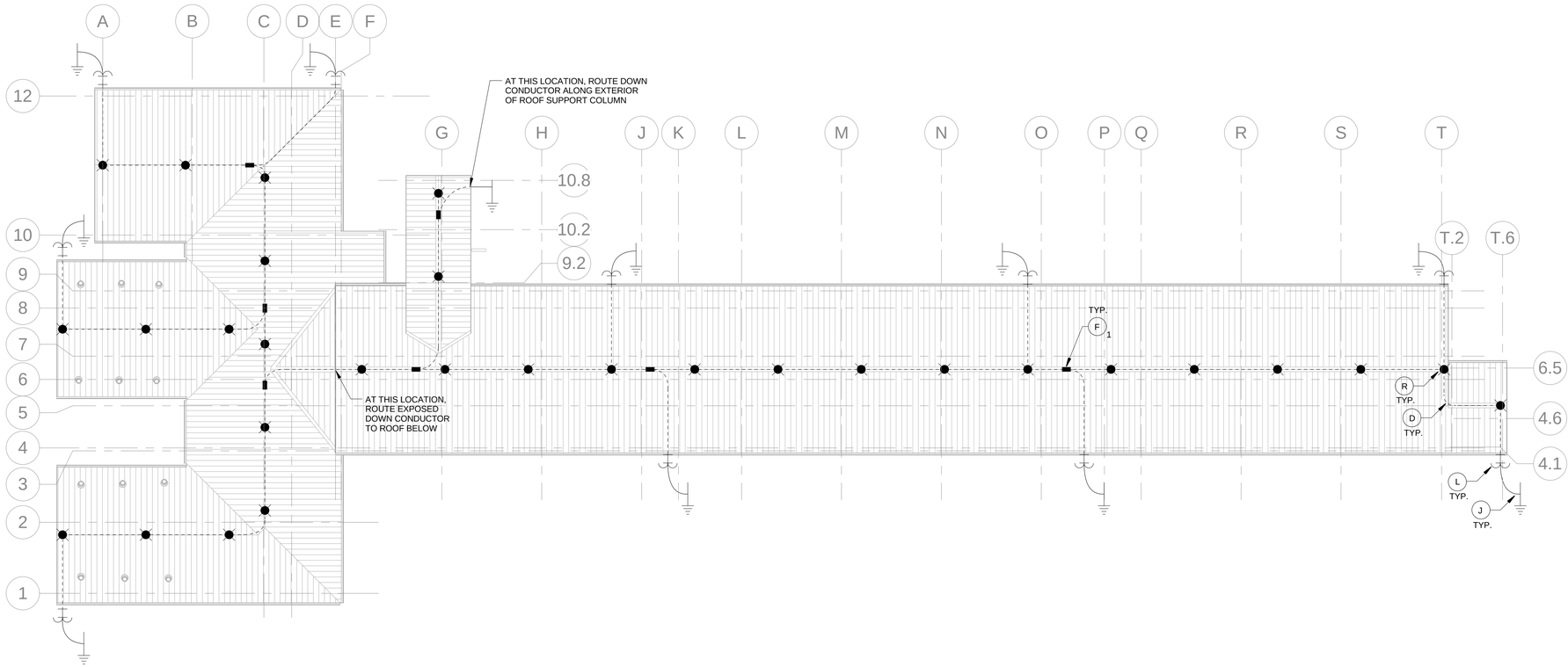
74278- E-606-

LIGHTNING PROTECTION SYSTEM GENERAL NOTES:

1. THE DESIGN LAYOUT AND INSTALLATION DETAILS SHOWN HEREON SHALL MEET THE REQUIREMENTS OF NFPA 780 AND UNDERWRITERS' LABORATORIES STANDARD 96A FOR MASTER LABELED LIGHTNING PROTECTION SYSTEMS. THE ACTUAL MASTER LABEL WILL BE DELIVERED UPON COMPLETION OF INSTALLATION.
2. METAL BODIES OF INDUCTANCE LOCATED ABOUT THE ROOF SUCH AS; METAL FLASHINGS, GRAVEL STOPS, ROOF DRAINS, SOIL PIPE VENTS, INSULATION VENTS, LOUVERS AND DOOR FRAMES SITUATED WITHIN 6'-0" OF A LIGHTNING CONDUCTOR OR BONDED METAL BODY SHALL BE INTERCONNECTED TO THE LIGHTNING CONDUCTOR SYSTEM.
3. NO BEND OF A CONDUCTOR SHALL FORM A FINAL INCLUDED ANGLE OF LESS THAN 90 DEGREES NOR SHALL HAVE A RADIUS OF BEND OF LESS THAN 8".
4. CONDUCTORS SHALL INTERCONNECT ALL AIR TERMINALS AND SHALL FORM A TWO WAY PATH FROM EACH AIR TERMINAL HORIZONTALLY OR DOWNWARD TO CONNECTIONS WITH GROUND TERMINALS.
5. ALL LIGHTNING PROTECTION CONDUCTORS SHALL BE FASTENED NOT MORE THAN 3'-0" MAXIMUM SPACING.
6. CONNECTIONS TO GROUND ROD OR GROUND LOOP CONDUCTOR SHALL BE MADE AT A POINT NOT LESS THAN 1'-0" BELOW GRADE AND 2'-0" AWAY FROM FOUNDATION WALL.
7. ACTUAL JOBSITE CONDITIONS MAY NECESSITATE SLIGHT ALTERATIONS IN AIR TERMINAL AND GROUND ROD LOCATIONS.
8. AIR TERMINALS SHALL BE PLACED AT ALL UNPROTECTED OUTSIDE CORNERS AND LOCATED INTERMEDIATELY ON 20'-0" MAXIMUM SPACING AROUND THE ROOF PERIMETER OR RIDGE AND WITHIN 2'-0" OF OUTSIDE EDGE.
9. TELEPHONE AND/OR ELECTRICAL SERVICE ENTRANCE GROUNDS SHALL BE INTERCONNECTED TO ONE LIGHTNING PROTECTION GROUND OR WATER PIPE.
10. BOND ALL METALLIC PIPES INCLUDING WATER, FIRE, GAS, SEWER, STORM, ETC, WHICH ENTER THE STRUCTURE TO THE NEAREST DOWNLEAD, GROUND ROD OR GROUND LOOP. BOND AT BOTTOM AND TOP.
11. BARE COPPER LIGHTNING PROTECTION MATERIALS SHALL NOT BE INSTALLED ON ALUMINUM ROOF OR SIDING OR OTHER ALUMINUM SURFACES AND VICE VERSA, ALUMINUM LIGHTNING PROTECTION MATERIALS SHALL NOT BE INSTALLED ON COPPER ROOFING OR COPPER SIDING OR OTHER COPPER SURFACES.
12. THE LIGHTNING PROTECTION SYSTEM SHALL BE INSTALLED IN A NEAT AND INCONSPICUOUS MANNER SO THAT ALL COMPONENTS WILL BLEND IN WITH THE APPEARANCE OF THE BUILDING.
13. EACH INDIVIDUAL ITEM OF THE LIGHTNING PROTECTION SYSTEM LAYOUT HAS NOT BEEN DESIGNATED BY A DETAIL TYPE. THE ITEMS LABELED TYPICAL ARE TYPICAL FOR SIMILAR AREAS & CONDITIONS WHICH OCCUR THROUGHOUT THE SYSTEM ALL MATERIALS ARE TO BE CLASS I.
14. BOND DOWN CONDUCTORS TO TOP AND BOTTOM OF STRUCTURAL STEEL COLUMNS OR TO REBARS OF CONCRETE COLUMNS WHERE DOWN CONDUCTORS ARE INSTALLED TO COLUMNS.
15. BOND ALL METALLIC SERVICE ENTRANCE CONDUIT AND PIPE TO THE LIGHTNING PROTECTION SYSTEM.
16. BOND NEW SYSTEM TO EXISTING SYSTEM IF APPLICABLE.
17. ALL CATALOG NUMBERS INDICATED ARE THOSE OF ERITECH LIGHTNING PROTECTION PRODUCTS BY ERICO.
18. ADHESIVE ATTACHMENT OF LIGHTNING PROTECTION DEVICES SHALL BE BY AN ADHESIVE WHICH FUSES WITH THE ROOF STRUCTURE ATTACHMENT MUST BE STRUCTURALLY SOUND TO THE POINT WHERE REMOVAL WOULD CAUSE DESTRUCTION OF THE ROOF ASSEMBLY.

LIGHTNING PROTECTION LEGEND		
DETAIL	SYMBOL	DESCRIPTION
	-----	MAIN CONDUCTOR
	⌒	DOWN LEAD CONDUCTOR TO GROUND
B		EQUIPMENT AIR TERMINAL
D		SEE BEND RADIUS DETAIL
F 1		MAIN CONDUCTOR CABLE SPLICER
J		CONCEALED DOWN LEAD TO GROUND ROD
L		EXPOSED DOWN LEAD TO THRU WALL CONNECTION TO GROUND ROD
R		STANDING SEAM ROOF AIR TERMINAL

NOTE: SEE SHEET E-504 FOR LIGHTNING PROTECTION DETAILS.



NORTH

1 / E-701

LIGHTNING PROTECTION - ROOF PLAN - OVERALL

4' 2' 0' 4' 8'

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

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

FINAL AS-BUILT DRAWINGS

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: TSK	CHECKED BY: KJ	ISSUE DATE: JUNE 2013	
DRAWN BY: PS		SOLICITATION NO.: W912HN-09-X-S107	
SUBMITTED BY: TSK		CONTRACT NO.: W912HN-10-D-0048 T.O. 0007	
FILE NAME: E701.DGN		CATEGORY CODE:	
SIZE: 22" x 34"	PLOT SCALE: As indicated	PLOT DATE: 5/1/2015 10:26:44 AM	

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS

FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
LIGHTNING PROTECTION - ROOF PLAN - OVERALL

PLATE REFERENCE NUMBER
E-701
SHEET 271

74278- E-701-

STRUCTURED CABLE LEGEND

SYMBOL	DESCRIPTION	BACK BOX	MOUNTING HEIGHT
W	TELECOMMUNICATIONS VOICE ONLY OUTLET - "W" INDICATES WALL PHONE	4-11/16" SQ. 2-1/8" DEEP 1-GANG RING	48"
A	TELECOMMUNICATIONS VOICE / DATA OUTLET - NIPR / SIPR	4-11/16" SQ. 2-1/8" DEEP 1-GANG RING	18"
B	TELECOMMUNICATIONS VOICE / DATA OUTLET - NIPR / SIPR / VOICE	4-11/16" SQ. 2-1/8" DEEP 1-GANG RING	18"
	FLOORBOX TELECOMMUNICATIONS OUTLET - SAME CONFIGURATION AS ABOVE	PROVIDED BY ELECTRICAL CONT.	FLOOR
	CEILING MOUNT TELECOMMUNICATIONS OUTLET (1) CATEGORY SIX CABLE UNLESS OTHERWISE NOTED	SINGLE PORT SURFACE MOUNT BOX	CEILING
TV	TELEVISION OUTLET	4-11/16" SQ. 2-1/8" DEEP 1-GANG RING	AS SPECIFIED

REFERENCE SHEET T002 FOR OUTLET TYPES, CONFIGURATION, AND COLOR CODES

ACCESS CONTROL LEGEND

SYMBOL	DESCRIPTION	BACK BOX	MOUNTING HEIGHT
DC	DOOR CONTACT / DOOR POSITION SWITCH	N/A	TOP OF DOOR
PIR	PASSIVE INFRARED DEVICE MOTION REQUEST TO EXIT	N/A	CEILING
DB	DURESS BUTTON *	4 X 4 SQ. 2-1/8" DEEP 1-GANG RING	48"
CR	CARD READER ***	4 X 4 SQ. 2-1/8" DEEP 1-GANG RING	48"
MS	MOTION SENSOR *	N/A	CEILING
KP	KEYPAD *	4 X 4 SQ. 2-1/8" DEEP 1-GANG RING	48"
DSP	DISPLAY PANEL *	4 X 4 SQ. 2-1/8" DEEP 1-GANG RING	60"
	ACCESS CONTROL SYSTEM PANEL **		

* DENOTES ROUGH-IN ONLY
** ACCESS CONTROL SYSTEM OPERATING SOFTWARE SHALL BE SOFTWARE HOUSE C-CURE 900 V2.01 OR EQUIVALENT
*** CARD READERS SHALL BE SOFTWARE HOUSE MODEL SWH-4000, SWH-4100, AND SWH-4200 OR EQUIVALENT

CCTV LEGEND

SYMBOL	DESCRIPTION	BACK BOX	MOUNTING HEIGHT
C	CCTV CAMERA *	SINGLE PORT SURFACE MOUNT BOX	CEILING
MON	CCTV MONITOR	SINGLE PORT SURFACE MOUNT BOX	CEILING
CCTV	CCTV PANEL		COUNTER / DESK
			60"

* CCTV CAMERAS SHALL BE AMERICAN DYNAMICS ILLUSRA 600 IP SERIES HIGH DEF. MININ DOME OR EQUIVALENT. PART NUMBERS ADCI 610LT-INDOOR , ADCI 600 / 610 - INDOOR AND ADCI 600 / 610 - INDOOR / OUTDOOR

TELECOMMUNICATIONS PATHWAY LEGEND

SYMBOL	DESCRIPTION	MOUNTING HEIGHT
	LADDER RACK - SEE DETAILS DENOTED ON T9 SHEETS	ABOVE RACKS
	TELECOMMUNCATIONS CABLE TRAY -SEE T9 SHEETS FOR TYPES AND SPECIFICATIONS	SEE T9 SHEETS
	HILTI SPEED SLEEVE	CEILING
	CONDUIT PATHWAY	CEILING

AUDIO VISUAL LEGEND

SYMBOL	DESCRIPTION	BACK BOX	MOUNTING HEIGHT
S	AUDIO VISUAL SPEAKER		CEILING
SCREEN	PROJECTION SCREEN		
TV	65" LCD TELEVISION	4 X 4 SQ. 2-1/8" DEEP 1-GANG RING	60"
P	CEILING MOUNT PROJECTOR		AS NOTED
M	18" GOOSENECK MICROPHONE		

TELECOMMUNICATIONS - LEGEND

GENERAL NOTES:

A. ALL ESS SHALL BE ROUTED IN 3/4" CONDUIT.

B. ALL ROUGH-IN FOR LOW VOLTAGE DEVICES SHALL HAVE A MINIMUM OF 4-11/16" X 4-11/16" X 2-1/4" BACK BOX WITH 1" EMT UNLESS OTHERWISE NOTED.

C. ALL VOICE AND DATA NETWORK INFRASTRUCTURE AND PATHWAYS SHALL BE INSTALLED TO MEET THE REQUIREMENTS OF INSTALLATION INFORMATION INFRASTRUCTURE ARCHITECTURE (I3A) FEBRUARY 2010.

D. GROUNDING AND BONDING FOR TELECOMMUNICATIONS AND LOW VOLTAGE SYSTEMS SHALL MEET THE REQUIREMENTS OF ANSI/TIA/EIA 607-2011, NFPA 70, I3A, AND NEC.

E. INSTALLATION OF ALL SYSTEMS SHALL MEET THE REQUIREMENTS OF NATIONAL SECURITY TELECOMMUNICATIONS AND INFORMATION SYSTEMS SECURITY (NSTISS) NSTISSAM TEMPEST /295 (1995; AM A 2000) RED/BLACK INSTALLATIONS GUIDANCE AND ICD/ICS 705 PHYSICAL SECURITY STANDARDS FOR SENSITIVE COMPARTMENTED INFORMATION FACILITIES (SCIF).

F. ALL COMMUNICATIONS FLOOR BOXES SHALL HAVE A MINIMUM OF ONE SPARE CONDUIT PATHWAY TO EACH PULL BOX.

G. ALL CLASSIFIED (SIPR) CABLING SHALL BE SHIELDED . SHIELDED CABLES SHALL BE PROPERLY GROUNDED AT THE RACK.

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS

FL LIC #AA0003564

DESIGNED BY: DAR
DRAWN BY: JKS
CHECKED BY: JKS
SUBMITTED BY: Approver
FILE NAME: T-001.DWG
SIZE: 22" X 34"
PLOT SCALE: 1" = 10'-0"
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-S107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
PLOT DATE: 5/1/2015 10:26:54 AM

FINAL AS-BUILT DRAWINGS

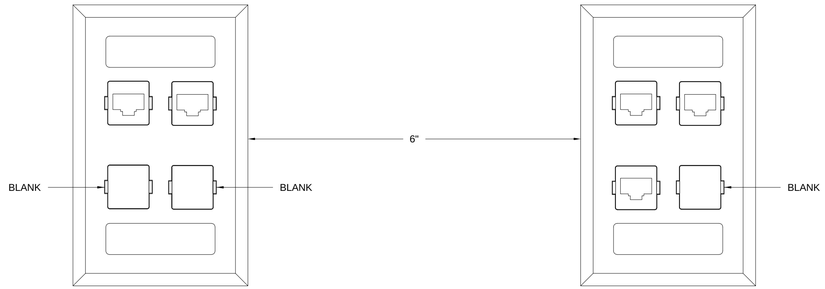
RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
TELECOMMUNICATIONS LEGEND

PLATE REFERENCE NUMBER
T-001
SHEET 272

74278- T-001-

NIPR COMMUNICATIONS OUTLETS:
TWO (2) CAT 6
TWO (2) ALLOCATED NIPR DATA
TWO (2) BLANKS
OUTLET SHALL HAVE ONE (1) 1" EMT
CONDUIT ROUTE TO CORRESPONDING
CABLE TRAY

SIPR COMMUNICATIONS OUTLETS:
THREE (3) CAT 6
ONE (1) BLANK
OUTLET SHALL HAVE ONE (1) 1" EMT
CONDUIT ROUTE TO CORRESPONDING
CABLE TRAY



MOUNT OUTLET AT 18" AFF UNLESS
OTHERWISE NOTED

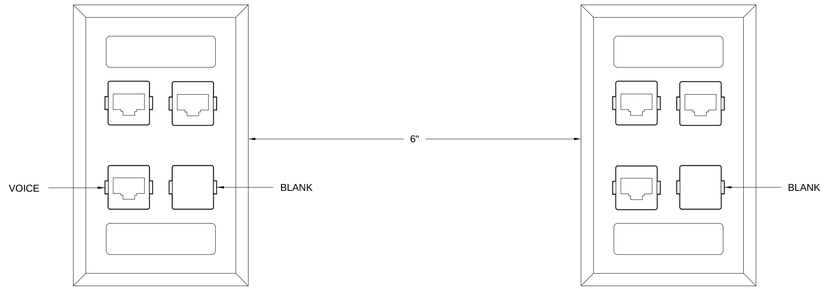
MOUNT OUTLET AT 18" AFF UNLESS
OTHERWISE NOTED

TYPICAL"A" COMM OUTLET ASSEMBLY
DETAIL
No Scale

1

NIPR COMMUNICATIONS OUTLETS:
THREE (3) CAT 6
TWO (2) ALLOCATED NIPR DATA
ONE (1) ALLOCATED NIPR VOICE
ONE (1) BLANK
OUTLET SHALL HAVE ONE (1) 1" EMT
CONDUIT ROUTE TO CORRESPONDING
CABLE TRAY

SIPR COMMUNICATIONS OUTLETS:
THREE (3) CAT 6
ONE (1) BLANK
OUTLET SHALL HAVE ONE (1) 1" EMT
CONDUIT ROUTE TO CORRESPONDING
CABLE TRAY



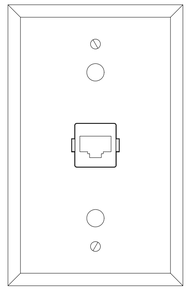
MOUNT OUTLET AT 18" AFF UNLESS
OTHERWISE NOTED

MOUNT OUTLET AT 18" AFF UNLESS
OTHERWISE NOTED

TYPICAL"B" COMM OUTLET ASSEMBLY
DETAIL
No Scale

2

ANALOG WALL PHONE OUTLET:
ONE (1) CAT 6 (NIPR VOICE)
ONE (1) SINGLE GANG PLATE WITH
MOUNTING STUDS
OUTLET SHALL HAVE ONE (1) 1" EMT
CONDUIT ROUTE TO CORRESPONDING
CABLE TRAY

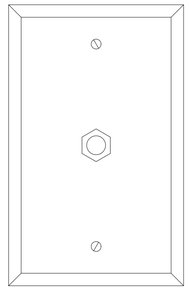


MOUNT OUTLET AT 48" AFF UNLESS
OTHERWISE NOTED

TYPICAL"W" TELEPHONE OUTLET
DETAIL
No Scale

3

TV COMMUNICATIONS OUTLET
ONE (1) COAXIAL COUPLING
-F CONNECTOR TYPE-
OUTLET SHALL HAVE ONE (1) 1" EMT CONDUIT
ROUTE TO CORRESPONDING CABLE TRAY



MOUNT OUTLET AT 72" AFF UNLESS
OTHERWISE NOTED

CATV OUTLET
DETAIL
No Scale

4

GENERAL NOTES:

A. **NIPR VOICE = WHITE CABLE, WHITE JACKS**

B. **NIPR DATA = BLUE CABLE, ORANGE JACKS**

C. **SIPR DATA = RED CABLE, RED JACKS (SIPR CABLING SHALL BE SHEILDED CABLE AND SHEILDED JACKS. USE RED ICONS ONLY IF NO RED SHEILDED JACK AVAILABLE)**

D. **ALL OUTLETS SHALL BE LABELED IN ACCORDANCE WITH THE FT. BENNING LABELING SCHEME**

E. **ALL VOICE AND DATA NETWORK INFRASTRUCTURE AND PATHWAYS SHALL BE INSTALLED TO MEET THE REQUIREMENTS OF INSTALLATION INFORMATION INFRASTRUCTURE ARCHITECTURE (I3A) FEBRUARY 2010.**

F. **GROUNDING AND BONDING FOR TELECOMMUNICATIONS AND LOW VOLTAGE SYSTEMS SHALL MEET THE REQUIREMENTS OF ANSI/TIA/EIA 607-2011, NFPA 70, I3A, AND NEC.**

G. **INSTALLATION OF ALL SYSTEMS SHALL MEET THE REQUIREMENTS OF NATIONAL SECURITY TELECOMMUNICATIONS AND INFORMATION SYSTEMS SECURITY (NSTISS) NSTISSAM TEMPEST /295 (1995; AM A 2000) RED/BLACK INSTALLATIONS GUIDANCE AND ICD/ICS 705 PHYSICAL SECURITY STANDARDS FOR SENSITIVE COMPARTMENTED INFORMATION FACILITIES (SCIF).**

H. **MINIMUM BACK BOX SIZE IS 4-11/16" X 4-11/16" X 2-1/8".**

I. **FACEPLATES FOR TELECOMMUNICATION OUTLETS SHALL BE THE SAME COLOR AS ELECTRICAL OUTLETS.**

J. **ALL VOICE AND DATA CABLES SHALL HAVE A MINIMUM OF 24" SLACK AT THE USER END. DO NOT STORE SLACK CABLE IN OUTLET BOX BUT AT NEAREST PRACTICAL LOCATION.**

K. **ALL CONDUITS FROM TELECOMMUNICATIONS OUTLET BACKBOXES SHALL TERMINATE AT CABLE TRAY. J-HOOKS ARE NOT ALLOWED.**

L. **ALL TELECOMMUNICATIONS FLOOR BOXES SHALL HAVE A MINIMUM OF ONE SPARE CONDUIT PATHWAY TO EACH PULL BOX.**

M. **NIPR AND SIPR OUTLETS SHALL HAVE A MINIMUM OF 6" SEPARATION.**

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

TELECOMMUNICATIONS - FACEPLATES

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.ictthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
PLOT DATE: 5/1/2015 10:26:55 AM

DESIGNED BY: DAR
DRAWN BY: JKS
CHECKED BY: JKS
SUBMITTED BY: Approval
FILE NAME: T-002.DGN
SIZE: 22" x 34"
PLOT SCALE: 3/32" = 1'-0"

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS

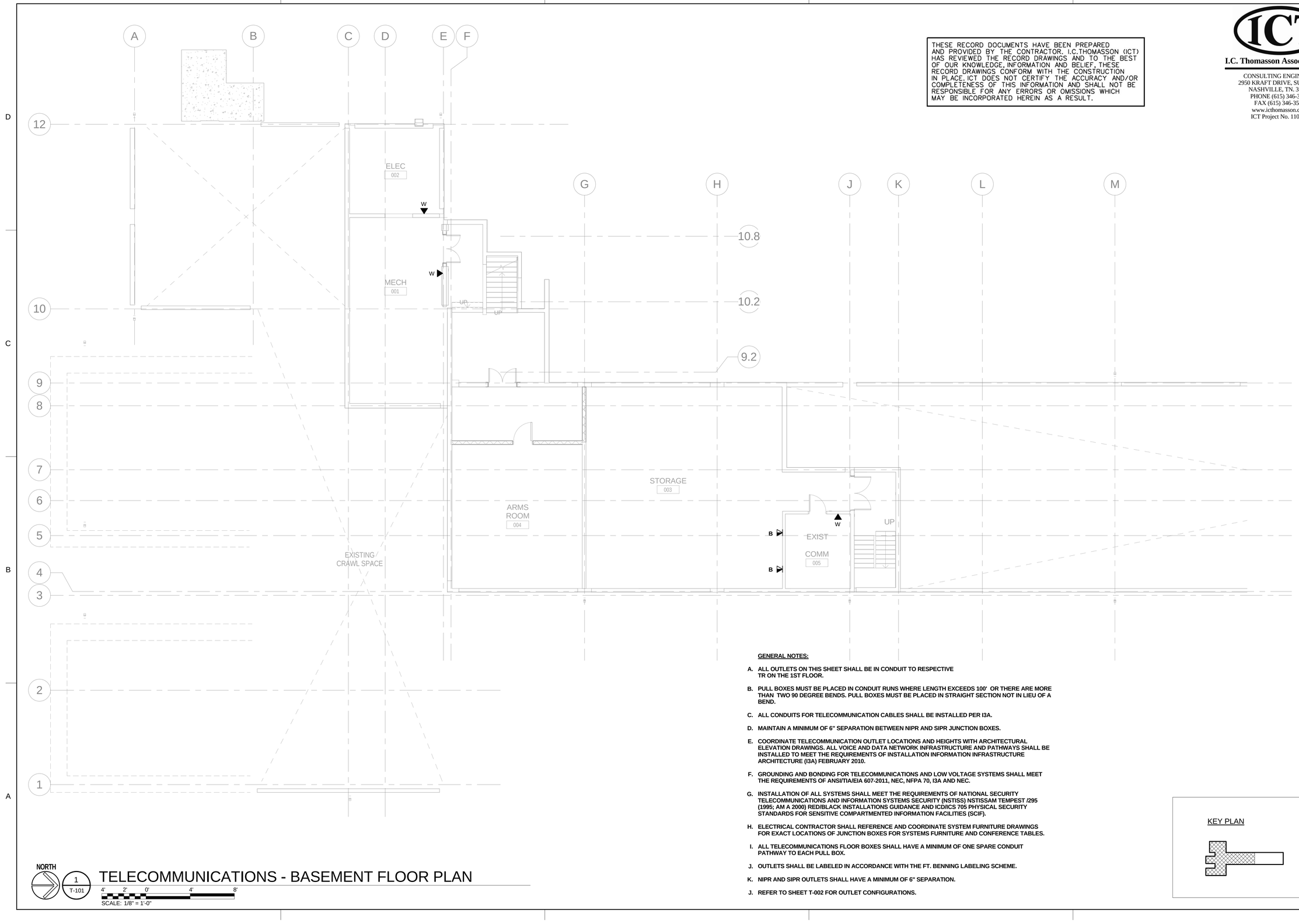
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
TELECOMMUNICATIONS - FACEPLATES

PLATE REFERENCE NUMBER
T-002
SHEET 273

FINAL AS-BUILT DRAWINGS

74278- T-002-



THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

GENERAL NOTES:

A. ALL OUTLETS ON THIS SHEET SHALL BE IN CONDUIT TO RESPECTIVE TR ON THE 1ST FLOOR.

B. PULL BOXES MUST BE PLACED IN CONDUIT RUNS WHERE LENGTH EXCEEDS 100' OR THERE ARE MORE THAN TWO 90 DEGREE BENDS. PULL BOXES MUST BE PLACED IN STRAIGHT SECTION NOT IN LIEU OF A BEND.

C. ALL CONDUITS FOR TELECOMMUNICATION CABLES SHALL BE INSTALLED PER I3A.

D. MAINTAIN A MINIMUM OF 6" SEPARATION BETWEEN NIPR AND SIPR JUNCTION BOXES.

E. COORDINATE TELECOMMUNICATION OUTLET LOCATIONS AND HEIGHTS WITH ARCHITECTURAL ELEVATION DRAWINGS. ALL VOICE AND DATA NETWORK INFRASTRUCTURE AND PATHWAYS SHALL BE INSTALLED TO MEET THE REQUIREMENTS OF INSTALLATION INFORMATION INFRASTRUCTURE ARCHITECTURE (I3A) FEBRUARY 2010.

F. GROUNDING AND BONDING FOR TELECOMMUNICATIONS AND LOW VOLTAGE SYSTEMS SHALL MEET THE REQUIREMENTS OF ANSI/TIA/EIA 607-2011, NEC, NFPA 70, I3A AND NEC.

G. INSTALLATION OF ALL SYSTEMS SHALL MEET THE REQUIREMENTS OF NATIONAL SECURITY TELECOMMUNICATIONS AND INFORMATION SYSTEMS SECURITY (NSTISS) NSTISSAM TEMPEST /295 (1995; AM A 2000) RED/BLACK INSTALLATIONS GUIDANCE AND ICD/ICS 705 PHYSICAL SECURITY STANDARDS FOR SENSITIVE COMPARTMENTED INFORMATION FACILITIES (SCIF).

H. ELECTRICAL CONTRACTOR SHALL REFERENCE AND COORDINATE SYSTEM FURNITURE DRAWINGS FOR EXACT LOCATIONS OF JUNCTION BOXES FOR SYSTEMS FURNITURE AND CONFERENCE TABLES.

I. ALL TELECOMMUNICATIONS FLOOR BOXES SHALL HAVE A MINIMUM OF ONE SPARE CONDUIT PATHWAY TO EACH PULL BOX.

J. OUTLETS SHALL BE LABELED IN ACCORDANCE WITH THE FT. BENNING LABELING SCHEME.

K. NIPR AND SIPR OUTLETS SHALL HAVE A MINIMUM OF 6" SEPARATION.

J. REFER TO SHEET T-002 FOR OUTLET CONFIGURATIONS.

KEY PLAN

NORTH

1 / T-101

TELECOMMUNICATIONS - BASEMENT FLOOR PLAN

4' 2' 0' 4' 8'
SCALE: 1/8" = 1'-0"

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
TELECOMMUNICATIONS - BASEMENT FLOOR PLAN

PLATE REFERENCE NUMBER
T-101
SHEET 274

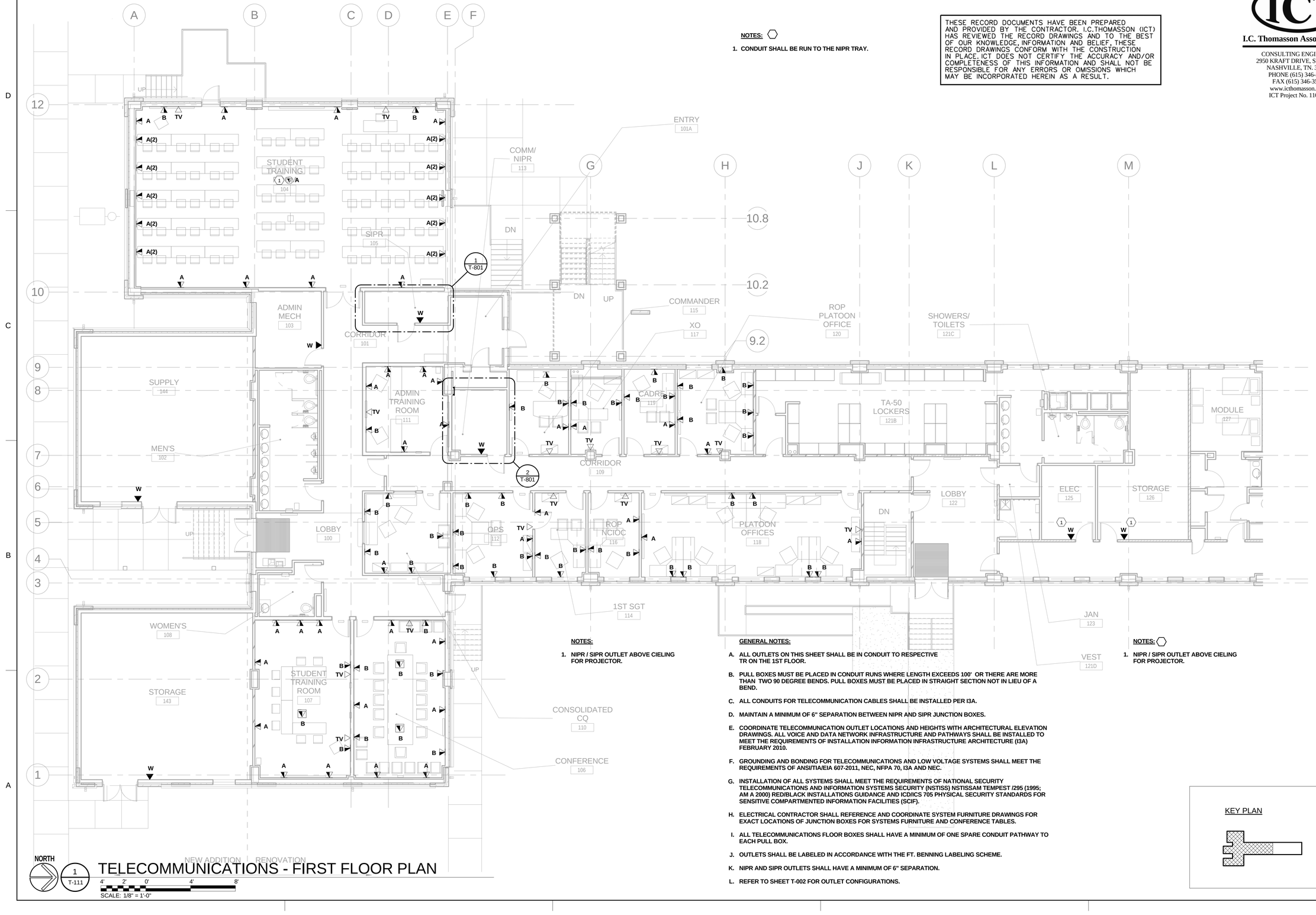
DESIGNED BY: DAR	DRAWN BY: JKS	SUBMITTED BY: Approver	FILE NAME: T-101.DWG
CHECKED BY: JKS			
ISSUE DATE: JUNE 2013	SOLICITATION NO.: W912HN-09-X-5107	CONTRACT NO.: W912HN-10-D-0048 T.O. 0007	CATEGORY CODE:
SIZE: 22" x 34"	PLOT SCALE: As Indicated	PLOT DATE: 5/1/2015 10:26:57 AM	

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS
FL LIC #AA0003564

74278- T-101-



NOTES:

1. CONDUIT SHALL BE RUN TO THE NIPR TRAY.

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

NOTES:

1. NIPR / SIPR OUTLET ABOVE CIELING FOR PROJECTOR.

GENERAL NOTES:

A. ALL OUTLETS ON THIS SHEET SHALL BE IN CONDUIT TO RESPECTIVE TR ON THE 1ST FLOOR.

B. PULL BOXES MUST BE PLACED IN CONDUIT RUNS WHERE LENGTH EXCEEDS 100' OR THERE ARE MORE THAN TWO 90 DEGREE BENDS. PULL BOXES MUST BE PLACED IN STRAIGHT SECTION NOT IN LIEU OF A BEND.

C. ALL CONDUITS FOR TELECOMMUNICATION CABLES SHALL BE INSTALLED PER I3A.

D. MAINTAIN A MINIMUM OF 6" SEPARATION BETWEEN NIPR AND SIPR JUNCTION BOXES.

E. COORDINATE TELECOMMUNICATION OUTLET LOCATIONS AND HEIGHTS WITH ARCHITECTURAL ELEVATION DRAWINGS. ALL VOICE AND DATA NETWORK INFRASTRUCTURE AND PATHWAYS SHALL BE INSTALLED TO MEET THE REQUIREMENTS OF INSTALLATION INFORMATION INFRASTRUCTURE ARCHITECTURE (I3A) FEBRUARY 2010.

F. GROUNDING AND BONDING FOR TELECOMMUNICATIONS AND LOW VOLTAGE SYSTEMS SHALL MEET THE REQUIREMENTS OF ANSI/TIA/EIA 607-2011, NEC, NFPA 70, I3A AND NEC.

G. INSTALLATION OF ALL SYSTEMS SHALL MEET THE REQUIREMENTS OF NATIONAL SECURITY TELECOMMUNICATIONS AND INFORMATION SYSTEMS SECURITY (NSTISS) NSTISSAM TEMPEST /295 (1995; AM A 2000) RED/BLACK INSTALLATIONS GUIDANCE AND ICD/ICS 705 PHYSICAL SECURITY STANDARDS FOR SENSITIVE COMPARTMENTED INFORMATION FACILITIES (SCIF).

H. ELECTRICAL CONTRACTOR SHALL REFERENCE AND COORDINATE SYSTEM FURNITURE DRAWINGS FOR EXACT LOCATIONS OF JUNCTION BOXES FOR SYSTEMS FURNITURE AND CONFERENCE TABLES.

I. ALL TELECOMMUNICATIONS FLOOR BOXES SHALL HAVE A MINIMUM OF ONE SPARE CONDUIT PATHWAY TO EACH PULL BOX.

J. OUTLETS SHALL BE LABELED IN ACCORDANCE WITH THE FT. BENNING LABELING SCHEME.

K. NIPR AND SIPR OUTLETS SHALL HAVE A MINIMUM OF 6" SEPARATION.

L. REFER TO SHEET T-002 FOR OUTLET CONFIGURATIONS.

NOTES:

1. NIPR / SIPR OUTLET ABOVE CIELING FOR PROJECTOR.

KEY PLAN

NORTH

1 T-111

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

TELECOMMUNICATIONS - FIRST FLOOR PLAN

NEW ADDITION | RENOVATION

74278- T-111-

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-S107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
PLOT DATE: 5/1/2015 10:27:00 AM

DESIGNED BY: DAR
DRAWN BY: JKS
CHECKED BY: JKS
SUBMITTED BY: Approval
FILE NAME: T-111.dwg
PLOT SCALE: As indicated
SIZE: 22" x 34"

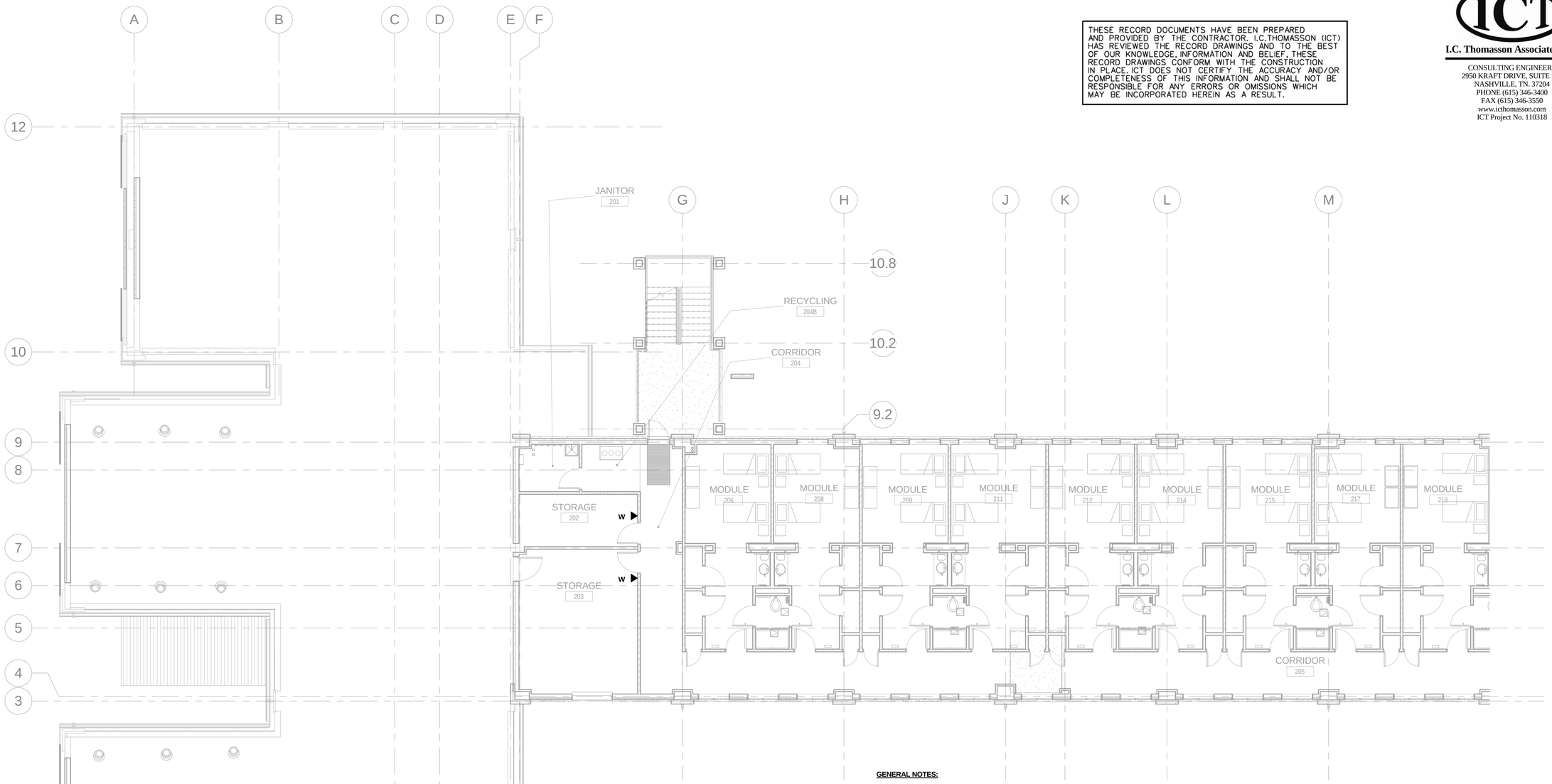
US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
TELECOMMUNICATIONS - FIRST FLOOR PLAN

PLATE REFERENCE NUMBER
T-111
SHEET 275



THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

GENERAL NOTES:

A. ALL OUTLETS ON THIS SHEET SHALL BE IN CONDUIT TO RESPECTIVE TR ON THE 1ST FLOOR.

B. PULL BOXES MUST BE PLACED IN CONDUIT RUNS WHERE LENGTH EXCEEDS 100' OR THERE ARE MORE THAN TWO 90 DEGREE BENDS. PULL BOXES MUST BE PLACED IN STRAIGHT SECTION NOT IN LIEU OF A BEND.

C. ALL CONDUITS FOR TELECOMMUNICATION CABLES SHALL BE INSTALLED PER I3A.

D. MAINTAIN A MINIMUM OF 6" SEPARATION BETWEEN NIPR AND SIPR JUNCTION BOXES.

E. COORDINATE TELECOMMUNICATION OUTLET LOCATIONS AND HEIGHTS WITH ARCHITECTURAL ELEVATION DRAWINGS. ALL VOICE AND DATA NETWORK INFRASTRUCTURE AND PATHWAYS SHALL BE INSTALLED TO MEET THE REQUIREMENTS OF INSTALLATION INFORMATION INFRASTRUCTURE ARCHITECTURE (I3A) FEBRUARY 2010.

F. GROUNDING AND BONDING FOR TELECOMMUNICATIONS AND LOW VOLTAGE SYSTEMS SHALL MEET THE REQUIREMENTS OF ANSI/TIA/EIA 607-2011, NEC, NFPA 70, I3A AND NEC.

G. INSTALLATION OF ALL SYSTEMS SHALL MEET THE REQUIREMENTS OF NATIONAL SECURITY TELECOMMUNICATIONS AND INFORMATION SYSTEMS SECURITY (NSTISS) NSTISSAM TEMPEST /295 (1995; AM A 2000) RED/BLACK INSTALLATIONS GUIDANCE AND ICD/ICS 705 PHYSICAL SECURITY STANDARDS FOR SENSITIVE COMPARTMENTED INFORMATION FACILITIES (SCIF).

H. ELECTRICAL CONTRACTOR SHALL REFERENCE AND COORDINATE SYSTEM FURNITURE DRAWINGS FOR EXACT LOCATIONS OF JUNCTION BOXES FOR SYSTEMS FURNITURE AND CONFERENCE TABLES.

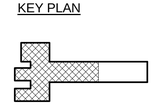
I. ALL TELECOMMUNICATIONS FLOOR BOXES SHALL HAVE A MINIMUM OF ONE SPARE CONDUIT PATHWAY TO EACH PULL BOX.

J. OUTLETS SHALL BE LABELED IN ACCORDANCE WITH THE FT. BENNING LABELING SCHEME.

K. NIPR AND SIPR OUTLETS SHALL HAVE A MINIMUM OF 6" SEPARATION.

L. REFER TO SHEET T-002 FOR OUTLET CONFIGURATIONS.

KEY PLAN



NORTH

1
T-121

TELECOMMUNICATIONS - SECOND FLOOR PLAN

4' 2' 0' 4' 8'
SCALE: 1/8" = 1'-0"

DESIGNED BY: DAR	ISSUE DATE: JUNE 2013
DRAWN BY: JKS	CHECKED BY: JKS
SUBMITTED BY: Approver	SOLICITATION NO.: W912HN-09-X-S107
FILE NAME: FT_BENNING_T121.dgn	CONTRACT NO.: W912HN-10-D-0049 T.O. 0007
SIZE: 22" x 34"	CATEGORY CODE:
PLOT SCALE: As indicated	PLOT DATE: 5/1/2015 10:27:02 AM

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

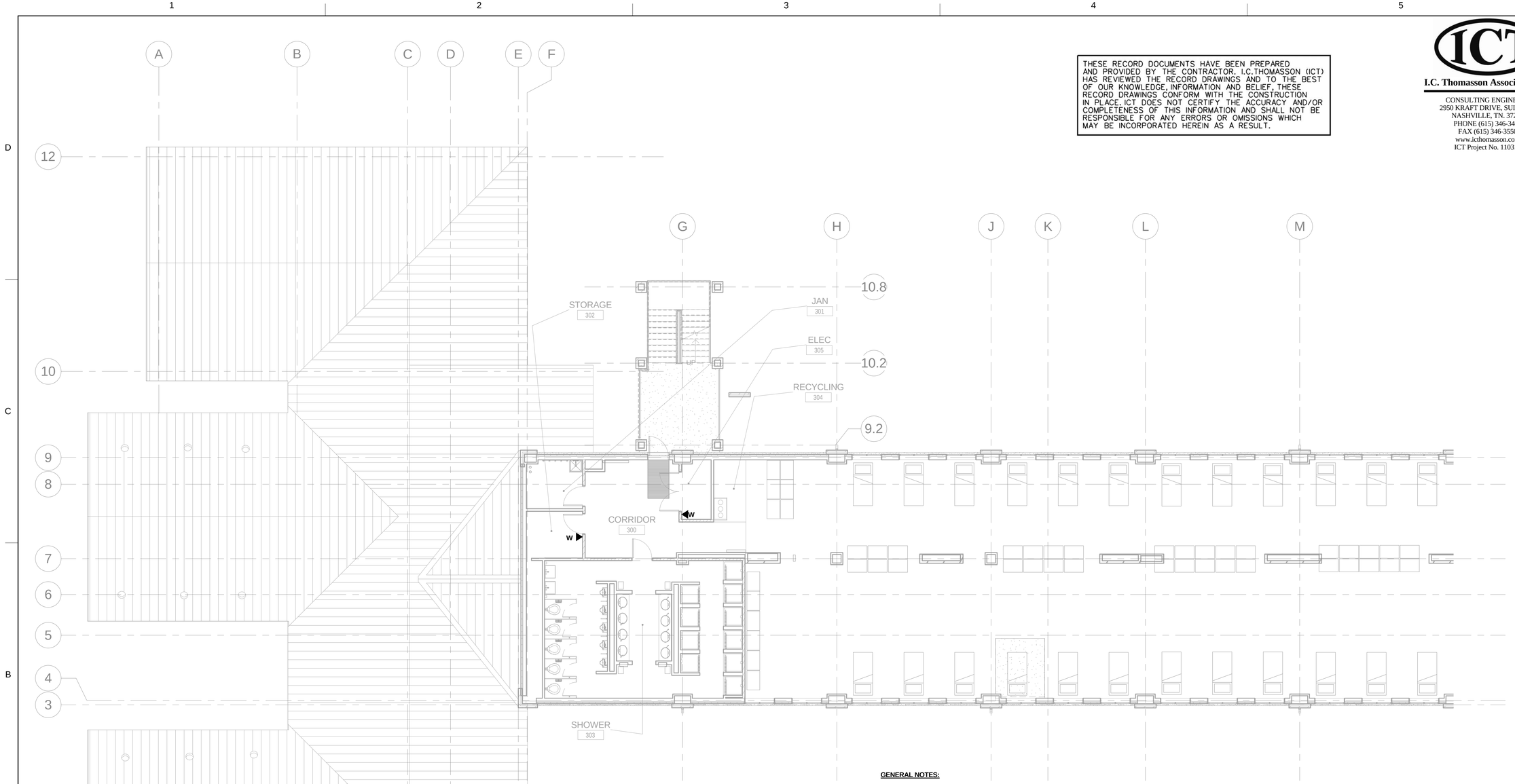
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
TELECOMMUNICATIONS - SECOND FLOOR PLAN

PLATE REFERENCE NUMBER
T-121
SHEET 276

74278- T-121-



THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

GENERAL NOTES:

A. ALL OUTLETS ON THIS SHEET SHALL BE IN CONDUIT TO RESPECTIVE TR ON THE 1ST FLOOR.

B. PULL BOXES MUST BE PLACED IN CONDUIT RUNS WHERE LENGTH EXCEEDS 100' OR THERE ARE MORE THAN TWO 90 DEGREE BENDS. PULL BOXES MUST BE PLACED IN STRAIGHT SECTION NOT IN LIEU OF A BEND.

C. ALL CONDUITS FOR TELECOMMUNICATION CABLES SHALL BE INSTALLED PER I3A.

D. MAINTAIN A MINIMUM OF 6" SEPARATION BETWEEN NIPR AND SIPR JUNCTION BOXES.

E. COORDINATE TELECOMMUNICATION OUTLET LOCATIONS AND HEIGHTS WITH ARCHITECTURAL ELEVATION DRAWINGS. ALL VOICE AND DATA NETWORK INFRASTRUCTURE AND PATHWAYS SHALL BE INSTALLED TO MEET THE REQUIREMENTS OF INSTALLATION INFORMATION INFRASTRUCTURE ARCHITECTURE (I3A) FEBRUARY 2010.

F. GROUNDING AND BONDING FOR TELECOMMUNICATIONS AND LOW VOLTAGE SYSTEMS SHALL MEET THE REQUIREMENTS OF ANSI/TIA/EIA 607-2011, NEC, NFPA 70, I3A AND NEC.

G. INSTALLATION OF ALL SYSTEMS SHALL MEET THE REQUIREMENTS OF NATIONAL SECURITY TELECOMMUNICATIONS AND INFORMATION SYSTEMS SECURITY (NSTISSI) NSTISSAM TEMPEST /295 (1995; AM A 2000) RED/BLACK INSTALLATIONS GUIDANCE AND ICD/ICS 705 PHYSICAL SECURITY STANDARDS FOR SENSITIVE COMPARTMENTED INFORMATION FACILITIES (SCIF).

H. ELECTRICAL CONTRACTOR SHALL REFERENCE AND COORDINATE SYSTEM FURNITURE DRAWINGS FOR EXACT LOCATIONS OF JUNCTION BOXES FOR SYSTEMS FURNITURE AND CONFERENCE TABLES.

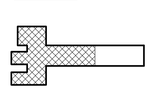
I. ALL TELECOMMUNICATIONS FLOOR BOXES SHALL HAVE A MINIMUM OF ONE SPARE CONDUIT PATHWAY TO EACH PULL BOX.

J. OUTLETS SHALL BE LABELED IN ACCORDANCE WITH THE FT. BENNING LABELING SCHEME.

K. NIPR AND SIPR OUTLETS SHALL HAVE A MINIMUM OF 6" SEPARATION.

L. REFER TO SHEET T-002 FOR OUTLET CONFIGURATIONS.

KEY PLAN



NORTH

1 / T-131

TELECOMMUNICATIONS - THIRD FLOOR PLAN

4' 2' 0' 4' 8'

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

FINAL AS-BUILT DRAWINGS

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: DAR
DRAWN BY: JKS
CHECKED BY: JKS
SUBMITTED BY: Approver
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-S107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
FILE NAME: T-131.DGN
PLOT SCALE: As indicated
SIZE: 22" x 34"
PLOT DATE: 5/1/2015 10:27:05 AM

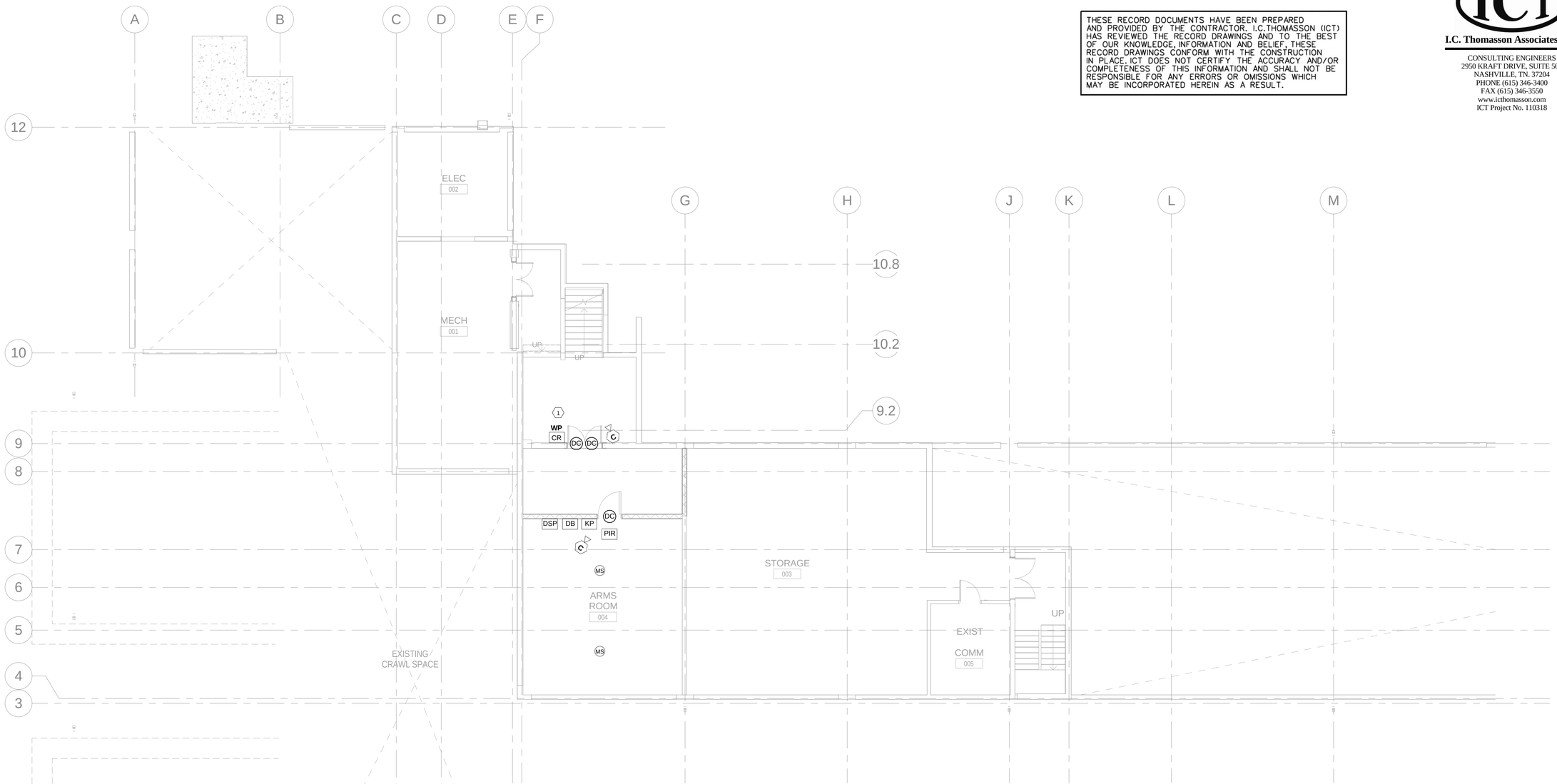
US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
TELECOMMUNICATIONS - THIRD FLOOR PLAN

PLATE REFERENCE NUMBER
T-131
SHEET 277

74278- T-131-



THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.
1	REVISION #6 MODIFICATION TO BASEMENT ARMS ROOM AND NEW DOOR ADDED BETWEEN RM. 112 AND 113	5/16/14	

DESIGNED BY: DAR
DRAWN BY: JKS
SUBMITTED BY: Approval
FILE NAME: T-201.dgn
SIZE: 22" x 34"
ISSUE DATE: JUNE 2013
CHECKED BY: JKS
SOLICITATION NO.: W912HN-09-X-S107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
PLOT SCALE: As indicated
PLOT DATE: 5/1/2015 10:27:06 AM

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS

FL LIC #AA0003564

NOTES:

1. ADDED CARD READER AND DOOR CONTACTS PER REVISION 6.

GENERAL NOTES:

A. PULL BOXES MUST BE PLACED IN CONDUIT RUNS WHERE LENGTH EXCEEDS 100' OR THERE ARE MORE THAN TWO 90 DEGREE BENDS. PULL BOXES MUST BE PLACED IN STRAIGHT SECTION NOT IN LIEU OF A BEND.

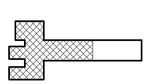
B. ALL ELECTRONIC SECURITY SYSTEM (ESS) CONDUITS TO ESS DEVICES SHALL BE A MINIMUM OF 3/4" EMT.

C. ESS SYSTEM DEVICES SHALL BE FED FROM NIPR 113.

D. ALL SECURITY DEVICES, ELECTRONICS ARE CFCI.

E. INSTALLATION OF ALL SYSTEMS SHALL MEET THE REQUIREMENTS OF NATIONAL SECURITY TELECOMMUNICATIONS AND INFORMATION SYSTEMS SECURITY (NSTISS) NSTISSAM TEMPEST /295 (1995; AM A 2000) RED/BLACK INSTALLATIONS GUIDANCE AND ICD/ICS 705 PHYSICAL SECURITY STANDARDS FOR SENSITIVE COMPARTMENTED INFORMATION FACILITIES (SCIF).

KEY PLAN



FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
SYSTEMS - BASEMENT FLOOR PLAN

PLATE REFERENCE NUMBER
T-201
SHEET 278

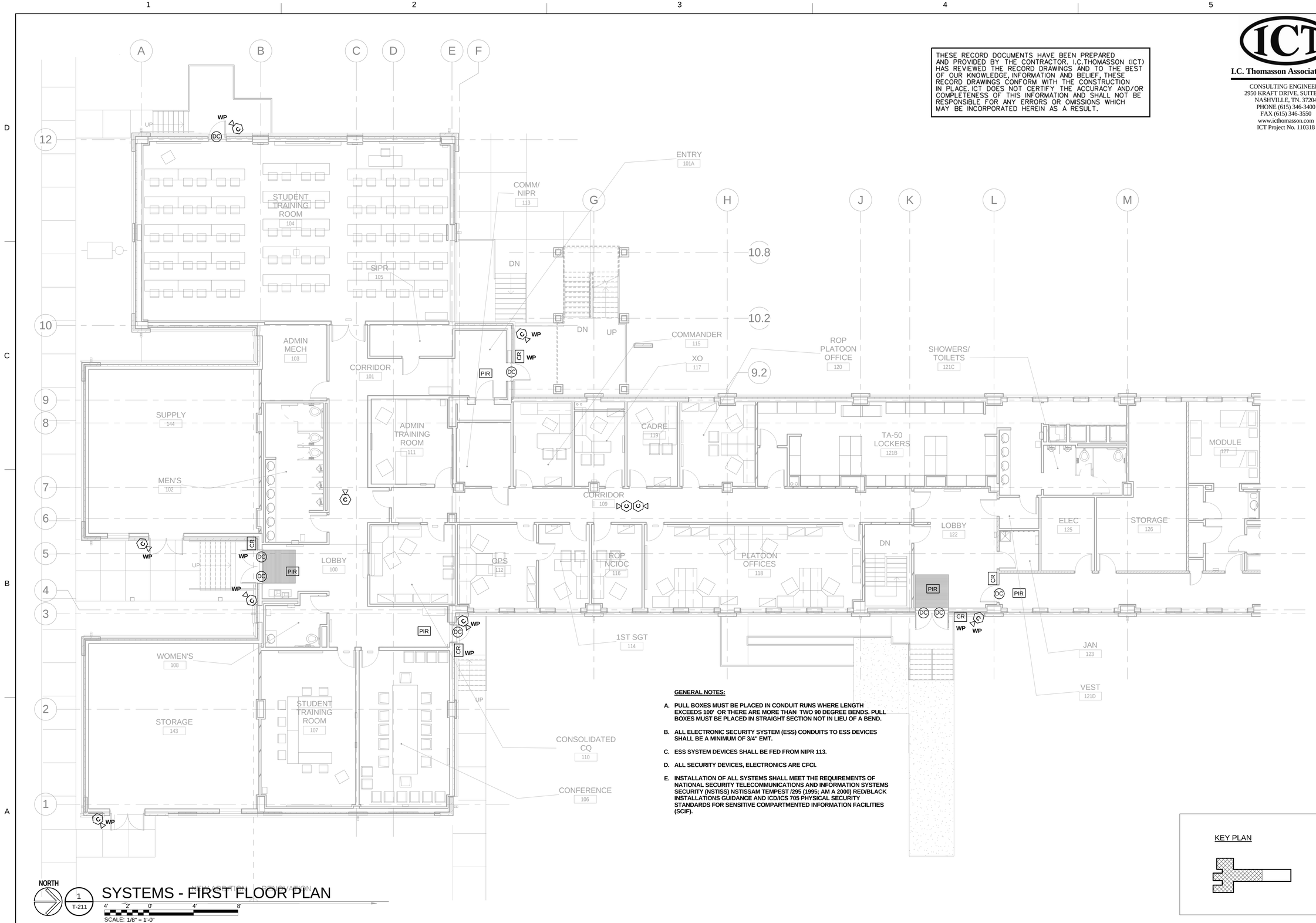
NORTH

1 / T-201

SYSTEMS - BASEMENT FLOOR PLAN

4' 2' 0' 4' 8'
SCALE: 1/8" = 1'-0"

74278- T-201-



GENERAL NOTES:

A. PULL BOXES MUST BE PLACED IN CONDUIT RUNS WHERE LENGTH EXCEEDS 100' OR THERE ARE MORE THAN TWO 90 DEGREE BENDS. PULL BOXES MUST BE PLACED IN STRAIGHT SECTION NOT IN LIEU OF A BEND.

B. ALL ELECTRONIC SECURITY SYSTEM (ESS) CONDUITS TO ESS DEVICES SHALL BE A MINIMUM OF 3/4" EMT.

C. ESS SYSTEM DEVICES SHALL BE FED FROM NIPR 113.

D. ALL SECURITY DEVICES, ELECTRONICS ARE CFCI.

E. INSTALLATION OF ALL SYSTEMS SHALL MEET THE REQUIREMENTS OF NATIONAL SECURITY TELECOMMUNICATIONS AND INFORMATION SYSTEMS SECURITY (NSTISS) NSTISSAM TEMPEST /295 (1995; AM A 2000) RED/BLACK INSTALLATIONS GUIDANCE AND ICD/ICS 705 PHYSICAL SECURITY STANDARDS FOR SENSITIVE COMPARTMENTED INFORMATION FACILITIES (SCIF).

KEY PLAN

NORTH

1 / T-211

SYSTEMS - FIRST FLOOR PLAN

4' 2' 0' 4' 8'

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

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: DAR
DRAWN BY: JKS
CHECKED BY: JKS
SUBMITTED BY: Approver
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-S107
CONTRACT NO.: W912JNH-10-D-0049 T.O. 0007
CATEGORY CODE:
FILE NAME: T-211.dwg
PLOT SCALE: As indicated
PLOT DATE: 5/1/2015 10:27:09 AM
SIZE: 22" x 34"

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

FINAL AS-BUILT DRAWINGS

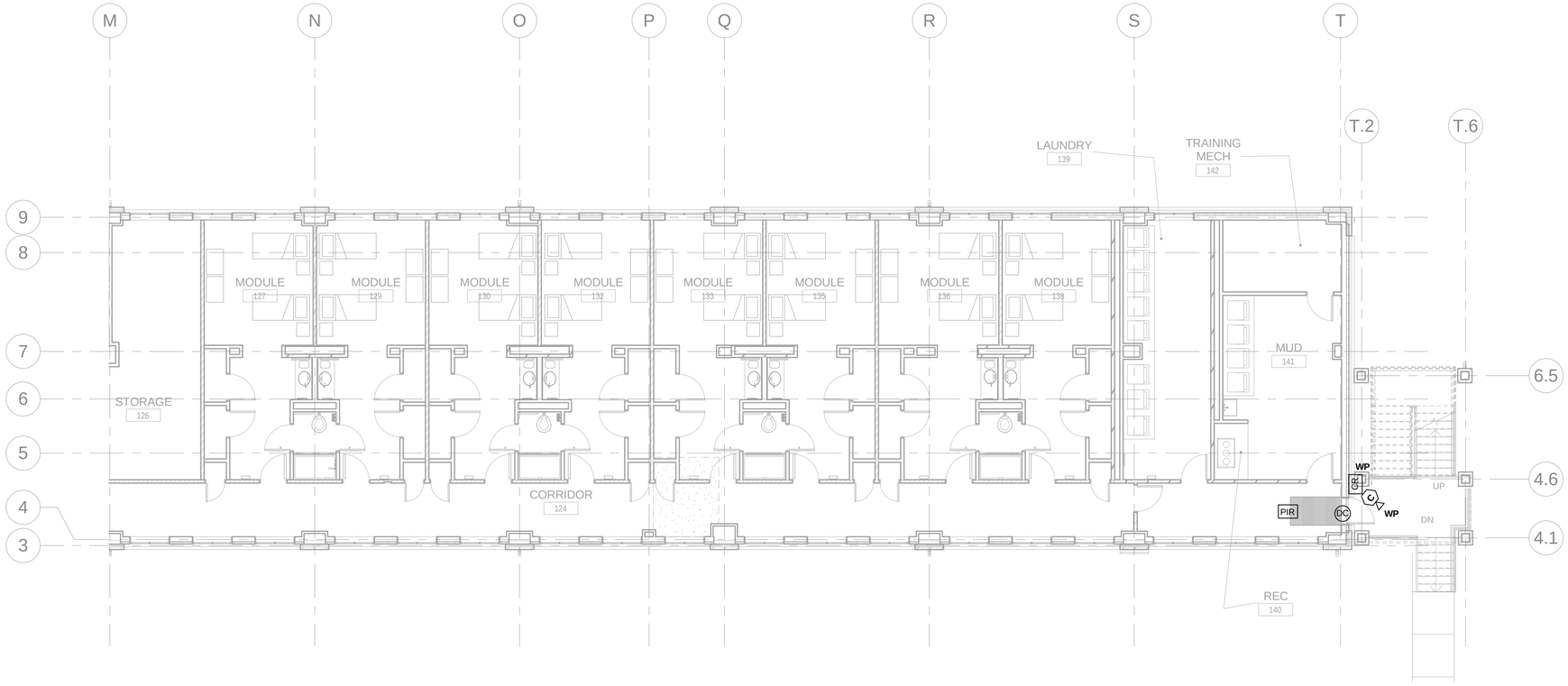
RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
SYSTEMS - FIRST FLOOR PLAN

PLATE REFERENCE NUMBER
T-211
SHEET 279

74278- T-211-

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318



GENERAL NOTES:

A. **PULL BOXES MUST BE PLACED IN CONDUIT RUNS WHERE LENGTH EXCEEDS 100' OR THERE ARE MORE THAN TWO 90 DEGREE BENDS. PULL BOXES MUST BE PLACED IN STRAIGHT SECTION NOT IN LIEU OF A BEND.**

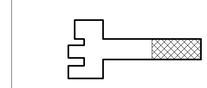
B. **ALL ELECTRONIC SECURITY SYSTEM (ESS) CONDUITS TO ESS DEVICES SHALL BE A MINIMUM OF 3/4" EMT.**

C. **ESS SYSTEM DEVICES SHALL BE FED FROM NIPR 113.**

D. **ALL SECURITY DEVICES, ELECTRONICS ARE CFCI.**

E. **INSTALLATION OF ALL SYSTEMS SHALL MEET THE REQUIREMENTS OF NATIONAL SECURITY TELECOMMUNICATIONS AND INFORMATION SYSTEMS SECURITY (NSTISS) NSTISSAM TEMPEST /295 (1995; AM A 2000) RED/BLACK INSTALLATIONS GUIDANCE AND ICD/ICS 705 PHYSICAL SECURITY STANDARDS FOR SENSITIVE COMPARTMENTED INFORMATION FACILITIES (SCIF).**

KEY PLAN



NORTH

1
T-212

SYSTEMS - FIRST FLOOR PLAN

4' 2' 0' 4' 8'

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

FINAL AS-BUILT DRAWINGS

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

DESIGNED BY: DAR
DRAWN BY: JKS
CHECKED BY: JKS
SUBMITTED BY: Approver
FILE NAME: T212_A1.dwg
SIZE: 22" x 34"
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-S107
CONTRACT NO.: W912HN-10-D-0049 T.O. 0007
CATEGORY CODE:
PLOT SCALE: As indicated
PLOT DATE: 5/1/2015 10:27:12 AM

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
SYSTEMS - FIRST FLOOR PLAN

PLATE REFERENCE NUMBER
T-212
SHEET 280

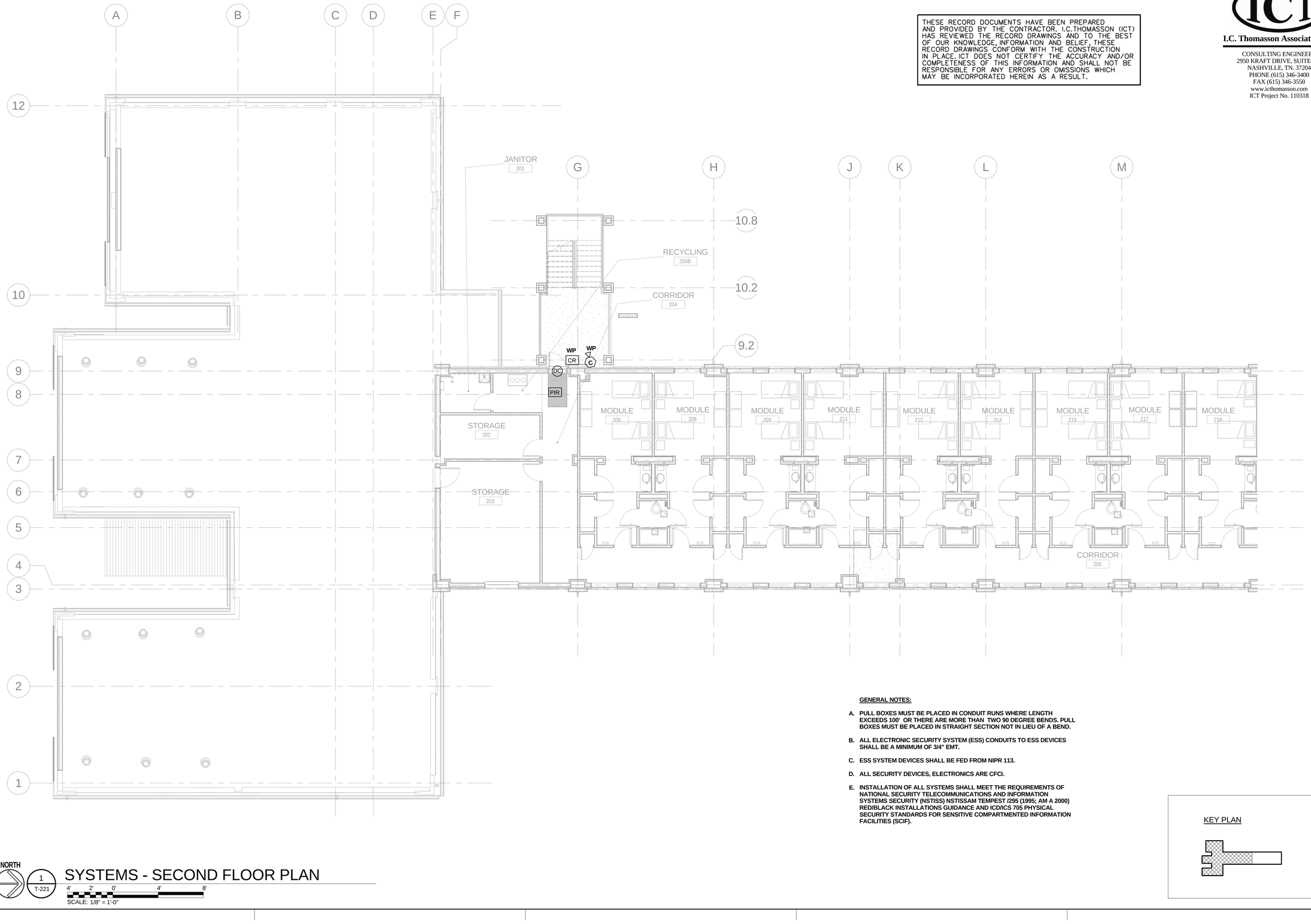
74278- T-212-

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.ictthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.



GENERAL NOTES:

A. PULL BOXES MUST BE PLACED IN CONDUIT RUNS WHERE LENGTH EXCEEDS 100' OR THERE ARE MORE THAN TWO 90 DEGREE BENDS. PULL BOXES MUST BE PLACED IN STRAIGHT SECTION NOT IN LIEU OF A BEND.

B. ALL ELECTRONIC SECURITY SYSTEM (ESS) CONDUITS TO ESS DEVICES SHALL BE A MINIMUM OF 3/4" EMT.

C. ESS SYSTEM DEVICES SHALL BE FED FROM NIPR 113.

D. ALL SECURITY DEVICES, ELECTRONICS ARE CFCI.

E. INSTALLATION OF ALL SYSTEMS SHALL MEET THE REQUIREMENTS OF NATIONAL SECURITY TELECOMMUNICATIONS AND INFORMATION SYSTEMS SECURITY (NSTISS) NSTISSAM TEMPEST /295 (1995; AM A 2000) RED/BLACK INSTALLATIONS GUIDANCE AND ICD/ICS 705 PHYSICAL SECURITY STANDARDS FOR SENSITIVE COMPARTMENTED INFORMATION FACILITIES (SCIF).

KEY PLAN

NORTH

1 / T-221

SYSTEMS - SECOND FLOOR PLAN

4' 2' 0' 4' 8'
SCALE: 1/8" = 1'-0"

DESIGNED BY: DAR	ISSUE DATE: JUNE 2013
DRAWN BY: JKS	CHECKED BY: JKS
SUBMITTED BY: Approver	SOLICITATION NO.: W912HN-09-X-S107
FILE NAME: T221.dwg	CONTRACT NO.: W912HN-10-D-0049 T.O. 0007
SIZE: 22" x 34"	CATEGORY CODE:
PLOT SCALE: As indicated	PLOT DATE: 5/1/2015 10:27:15 AM

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC.#AA0003564

FINAL AS-BUILT DRAWINGS

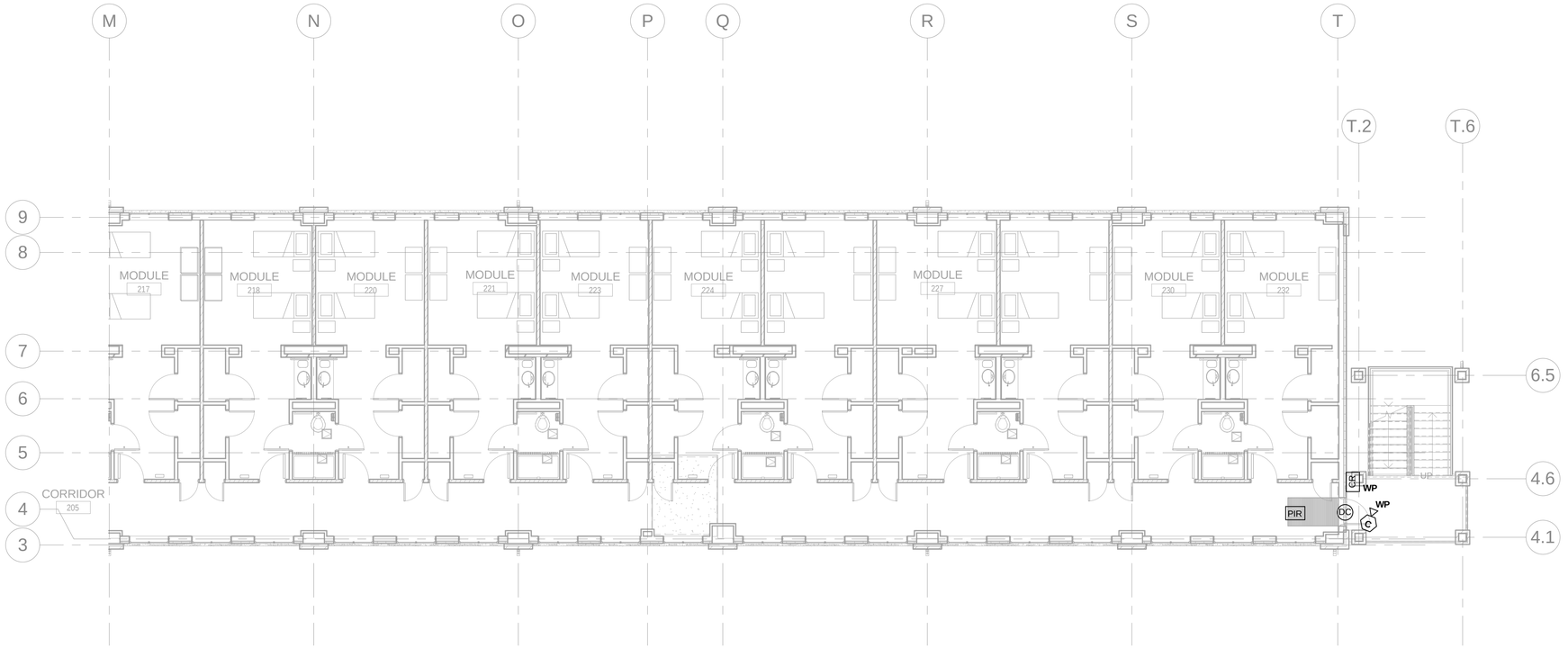
RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
SYSTEMS - SECOND FLOOR PLAN

PLATE REFERENCE NUMBER
T-221
SHEET 281

74278- T-221-

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318



GENERAL NOTES:

A. PULL BOXES MUST BE PLACED IN CONDUIT RUNS WHERE LENGTH EXCEEDS 100' OR THERE ARE MORE THAN TWO 90 DEGREE BENDS. PULL BOXES MUST BE PLACED IN STRAIGHT SECTION NOT IN LIEU OF A BEND.

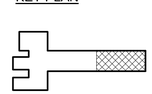
B. ALL ELECTRONIC SECURITY SYSTEM (ESS) CONDUITS TO ESS DEVICES SHALL BE A MINIMUM OF 3/4" EMT.

C. ESS SYSTEM DEVICES SHALL BE FED FROM NIPR 113.

D. ALL SECURITY DEVICES, ELECTRONICS ARE CFCI.

E. INSTALLATION OF ALL SYSTEMS SHALL MEET THE REQUIREMENTS OF NATIONAL SECURITY TELECOMMUNICATIONS AND INFORMATION SYSTEMS SECURITY (NSTISS) NSTISSAM TEMPEST /295 (1995; AM A 2000) RED/BLACK INSTALLATIONS GUIDANCE AND ICD/ICS 705 PHYSICAL SECURITY STANDARDS FOR SENSITIVE COMPARTMENTED INFORMATION FACILITIES (SCIF).

KEY PLAN



NORTH

1 / T-222

SYSTEMS - SECOND FLOOR PLAN

4' 2' 0' 4' 8'
SCALE: 1/8" = 1'-0"

FINAL AS-BUILT DRAWINGS

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: DAR
DRAWN BY: JKS
SUBMITTED BY: Approval
FILE NAME: T-222.DGN
SIZE: 22" x 34"
ISSUE DATE: JUNE 2013
CHECKED BY: JKS
SOLICITATION NO.: W912HN-09-X-S107
CONTRACT NO.: W912HN-10-D0048 T.O. 0007
CATEGORY CODE:
PLOT SCALE: As indicated
PLOT DATE: 5/1/2015 10:27:17 AM

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

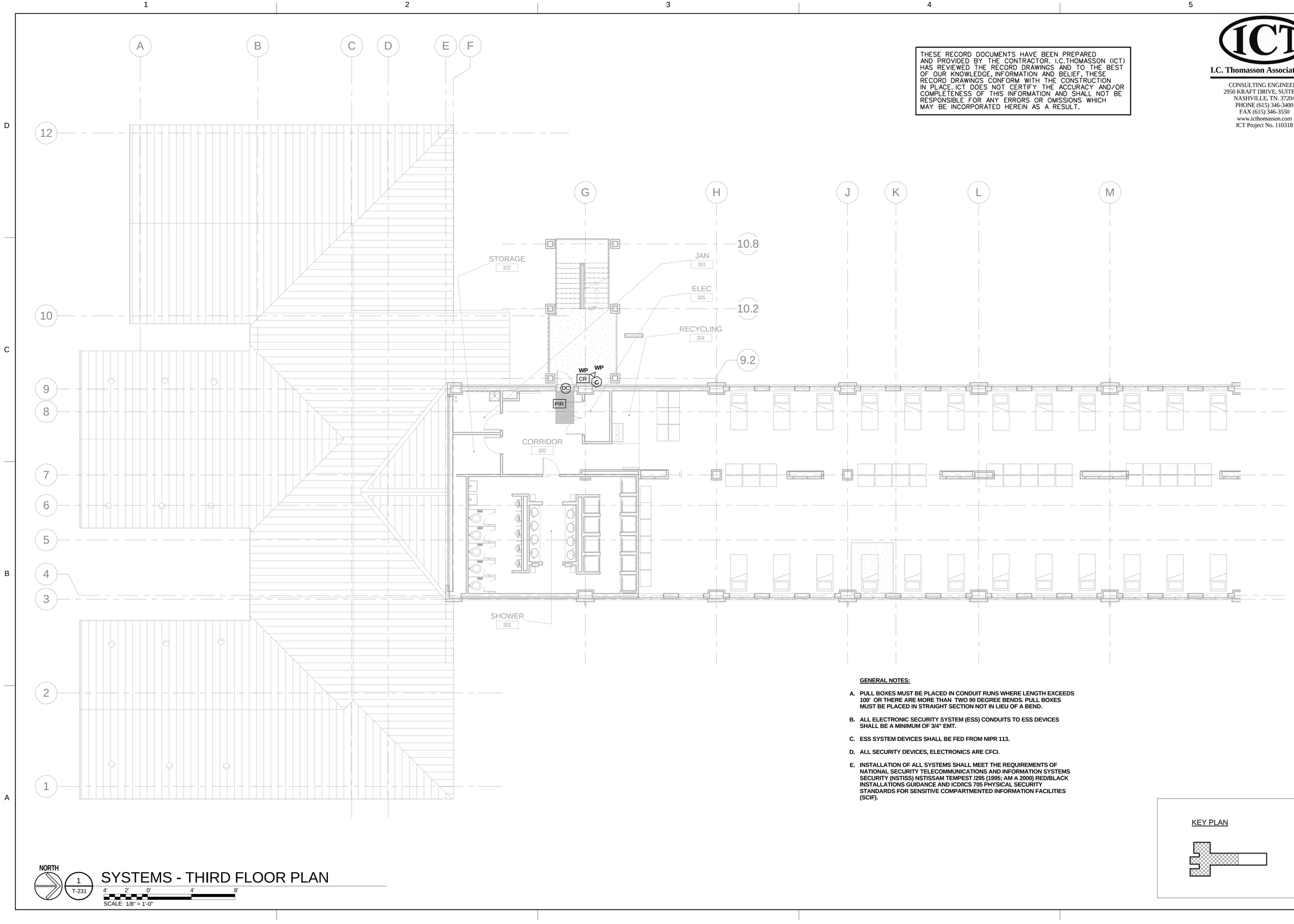
© 2012 STOA ARCHITECTS

FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
SYSTEMS - SECOND FLOOR PLAN

PLATE REFERENCE NUMBER
T-222
SHEET 282

74278- T-222-



THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.ictthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

GENERAL NOTES:

A. PULL BOXES MUST BE PLACED IN CONDUIT RUNS WHERE LENGTH EXCEEDS 100' OR THERE ARE MORE THAN TWO 90 DEGREE BENDS. PULL BOXES MUST BE PLACED IN STRAIGHT SECTION NOT IN LIEU OF A BEND.

B. ALL ELECTRONIC SECURITY SYSTEM (ESS) CONDUITS TO ESS DEVICES SHALL BE A MINIMUM OF 3/4" EMT.

C. ESS SYSTEM DEVICES SHALL BE FED FROM NIPR 113.

D. ALL SECURITY DEVICES, ELECTRONICS ARE CFCI.

E. INSTALLATION OF ALL SYSTEMS SHALL MEET THE REQUIREMENTS OF NATIONAL SECURITY TELECOMMUNICATIONS AND INFORMATION SYSTEMS SECURITY (NSTISS) NSTISSAM TEMPEST /295 (1995; AM A 2000) RED/BLACK INSTALLATIONS GUIDANCE AND ICD/ICS 705 PHYSICAL SECURITY STANDARDS FOR SENSITIVE COMPARTMENTED INFORMATION FACILITIES (SCIF).

KEY PLAN

NORTH

1 / T-231

SYSTEMS - THIRD FLOOR PLAN

4' 2' 0' 4' 8'
SCALE: 1/8" = 1'-0"

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
SYSTEMS - THIRD FLOOR PLAN

DESIGNED BY: DAR	CHECKED BY: JKS	ISSUE DATE: JUNE 2013	
DRAWN BY: JKS	SUBMITTED BY: Approver	SOLICITATION NO.: W912HN-09-X-S107	CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
FILE NAME: T231.dwg		CATEGORY CODE:	
SIZE: 22" x 34"	PLOT SCALE: As indicated	PLOT DATE: 5/1/2015 10:27:19 AM	

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

PLATE REFERENCE NUMBER
T-231
SHEET 283

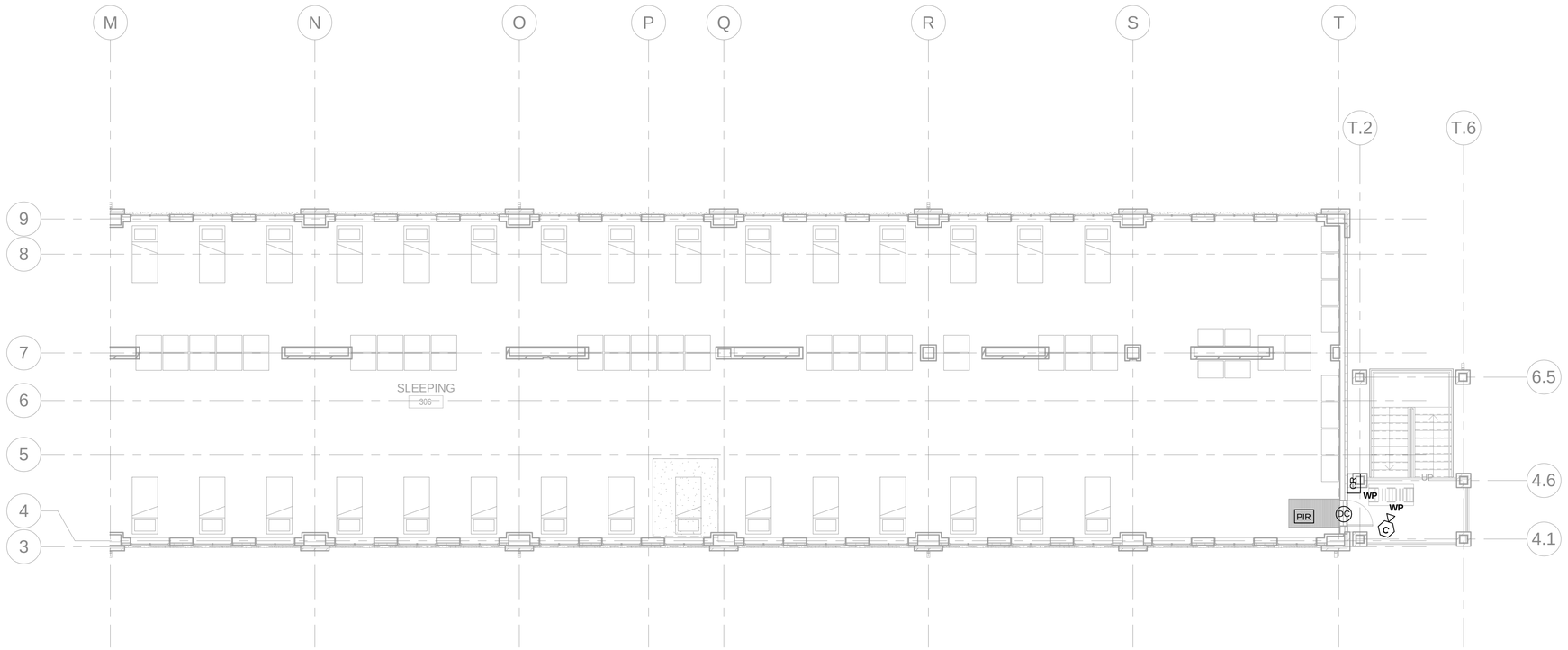
74278- T-231-

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.ictthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.



GENERAL NOTES:

A. PULL BOXES MUST BE PLACED IN CONDUIT RUNS WHERE LENGTH EXCEEDS 100' OR THERE ARE MORE THAN TWO 90 DEGREE BENDS. PULL BOXES MUST BE PLACED IN STRAIGHT SECTION NOT IN LIEU OF A BEND.

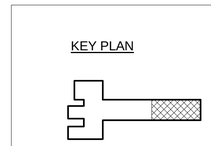
B. ALL ELECTRONIC SECURITY SYSTEM (ESS) CONDUITS TO ESS DEVICES SHALL BE A MINIMUM OF 3/4" EMT.

C. ESS SYSTEM DEVICES SHALL BE FED FROM NIPR 113.

D. ALL SECURITY DEVICES, ELECTRONICS ARE CFCI.

E. INSTALLATION OF ALL SYSTEMS SHALL MEET THE REQUIREMENTS OF NATIONAL SECURITY TELECOMMUNICATIONS AND INFORMATION SYSTEMS SECURITY (NSTISS) NSTISSAM TEMPEST /295 (1995; AM A 2000) RED/BLACK INSTALLATIONS GUIDANCE AND ICD/CS 705 PHYSICAL SECURITY STANDARDS FOR SENSITIVE COMPARTMENTED INFORMATION FACILITIES (SCIF).

KEY PLAN



NORTH

1 / T-232

SYSTEMS - THIRD FLOOR PLAN

4' 2' 0' 4' 8'
SCALE: 1/8" = 1'-0"

FINAL AS-BUILT DRAWINGS

DESIGNED BY: DAR	ISSUE DATE: JUNE 2013
DRAWN BY: JKS	CHECKED BY: JKS
SUBMITTED BY: Approval	SOLICITATION NO.: W912HN-09-X-S107
FILE NAME: T232-SYS.dgn	CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
SIZE: 22" x 34"	CATEGORY CODE:
	PLOT DATE: 5/1/2015 10:27:21 AM
	PLOT SCALE: As Indicated

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS

FL LIC #AA0003564

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
SYSTEMS - THIRD FLOOR PLAN

PLATE REFERENCE NUMBER
T-232
SHEET 284

74278- T-232-

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.ictthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-S107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
PLOT DATE: 5/1/2015 10:27:24 AM

DESIGNED BY: Designer
DRAWN BY: Author
CHECKED BY: Checker
SUBMITTED BY: Approval
FILE NAME: FLOOR PLAN
SIZE: 22" x 34"
PLOT SCALE: As indicated

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

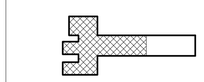
STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
AUDIO VISUAL - FIRST FLOOR PLAN

PLATE REFERENCE NUMBER
T-411
SHEET 285

KEY PLAN



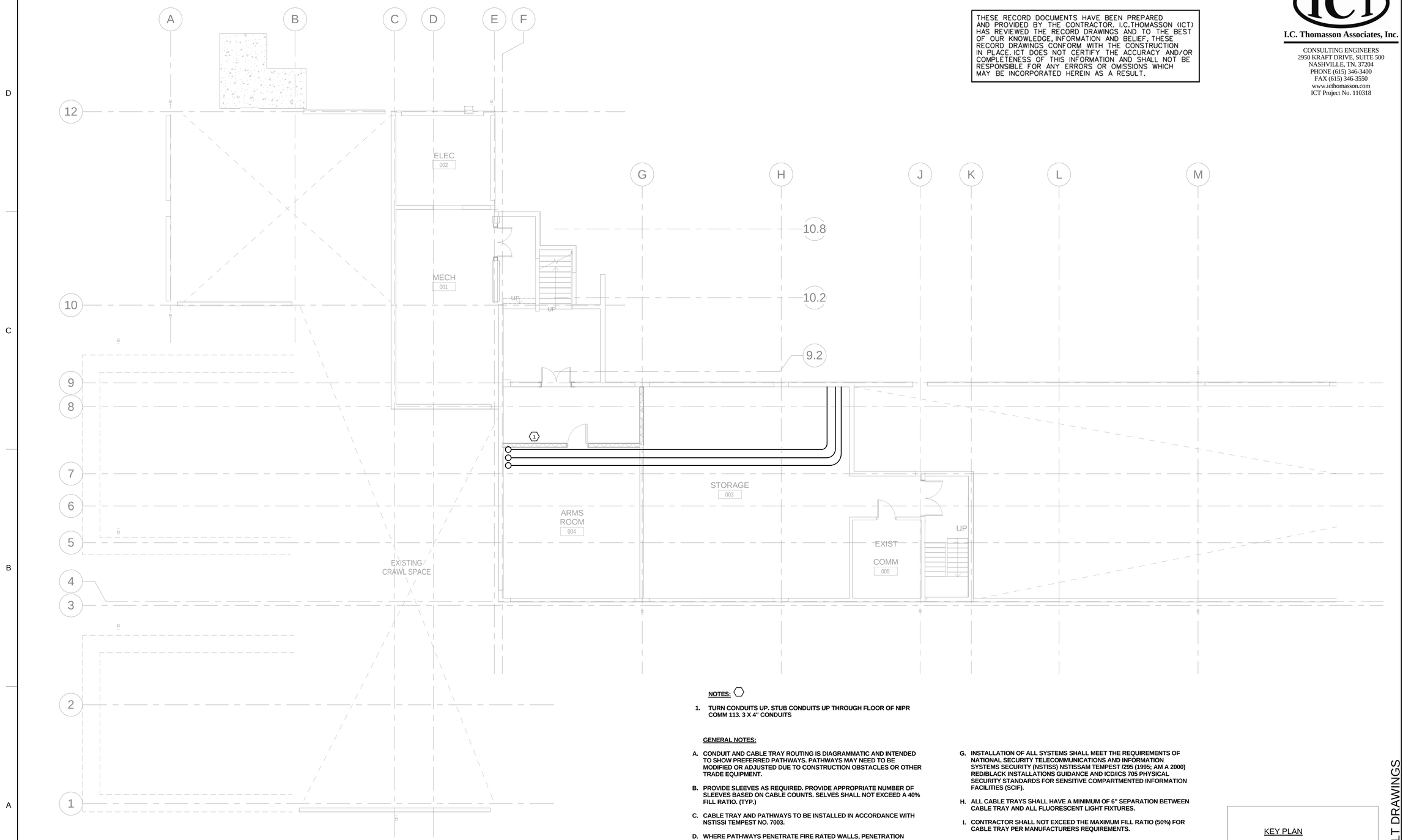
NORTH

1 / T-411

AUDIO VISUAL - FIRST FLOOR PLAN

4' 2' 0' 4' 8'
SCALE: 1/8" = 1'-0"

74278- T-411-



THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

NOTES:

1. TURN CONDUITS UP. STUB CONDUITS UP THROUGH FLOOR OF NIPR COMM 113. 3 X 4" CONDUITS

GENERAL NOTES:

A. CONDUIT AND CABLE TRAY ROUTING IS DIAGRAMMATIC AND INTENDED TO SHOW PREFERRED PATHWAYS. PATHWAYS MAY NEED TO BE MODIFIED OR ADJUSTED DUE TO CONSTRUCTION OBSTACLES OR OTHER TRADE EQUIPMENT.

B. PROVIDE SLEEVES AS REQUIRED. PROVIDE APPROPRIATE NUMBER OF SLEEVES BASED ON CABLE COUNTS. SELVES SHALL NOT EXCEED A 40% FILL RATIO. (TYP.)

C. CABLE TRAY AND PATHWAYS TO BE INSTALLED IN ACCORDANCE WITH NSTISSI TEMPEST NO. 7003.

D. WHERE PATHWAYS PENETRATE FIRE RATED WALLS, PENETRATION SYSTEM SHALL MAINTAIN RATING OF FIRE WALL.

E. ALL VOICE AND DATA NETWORK INFRASTRUCTURE AND PATHWAYS SHALL BE INSTALLED TO MEET THE REQUIREMENTS OF INSTALLATION INFORMATION INFRASTRUCTURE ARCHITECTURE (I3A) FEBRUARY 2010.

F. GROUNDING AND BONDING FOR TELECOMMUNICATIONS AND LOW VOLTAGE SYSTEMS SHALL MEET THE REQUIREMENTS OF ANSI/TIA/EIA 607-2011, NFPA 70, I3A AND NEC.

G. INSTALLATION OF ALL SYSTEMS SHALL MEET THE REQUIREMENTS OF NATIONAL SECURITY TELECOMMUNICATIONS AND INFORMATION SYSTEMS SECURITY (NSTISS) NSTISSAM TEMPEST /295 (1995; AM A 2000) RED/BLACK INSTALLATIONS GUIDANCE AND ICD/ICS 705 PHYSICAL SECURITY STANDARDS FOR SENSITIVE COMPARTMENTED INFORMATION FACILITIES (SCIF).

H. ALL CABLE TRAYS SHALL HAVE A MINIMUM OF 6" SEPARATION BETWEEN CABLE TRAY AND ALL FLUORESCENT LIGHT FIXTURES.

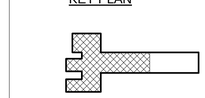
I. CONTRACTOR SHALL NOT EXCEED THE MAXIMUM FILL RATIO (50%) FOR CABLE TRAY PER MANUFACTURERS REQUIREMENTS.

J. CABLE TRAYS SHALL BE INSTALLED IN A MANNER AS TO LEAVE 12" CLEARANCE ABOVE TRAY FOR FUTURE ACCESS FOR PULLING CABLES.

K. CABLE TRAY OF DIFFERENT CLASSIFICATION SHALL HAVE A MINIMUM OF 6" SEPARATION FROM EACH OTHER.

L. CABLE TRAYS THAT SHARE MOUNTING HARDWARE SHALL BE ELECTRICALLY ISOLATED FROM ONE ANOTHER.

KEY PLAN



NORTH

1
T-601

PATHWAYS - BASEMENT FLOOR PLAN

4' 2' 0' 4' 8'
SCALE: 1/8" = 1'-0"

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
PATHWAYS - BASEMENT FLOOR PLAN

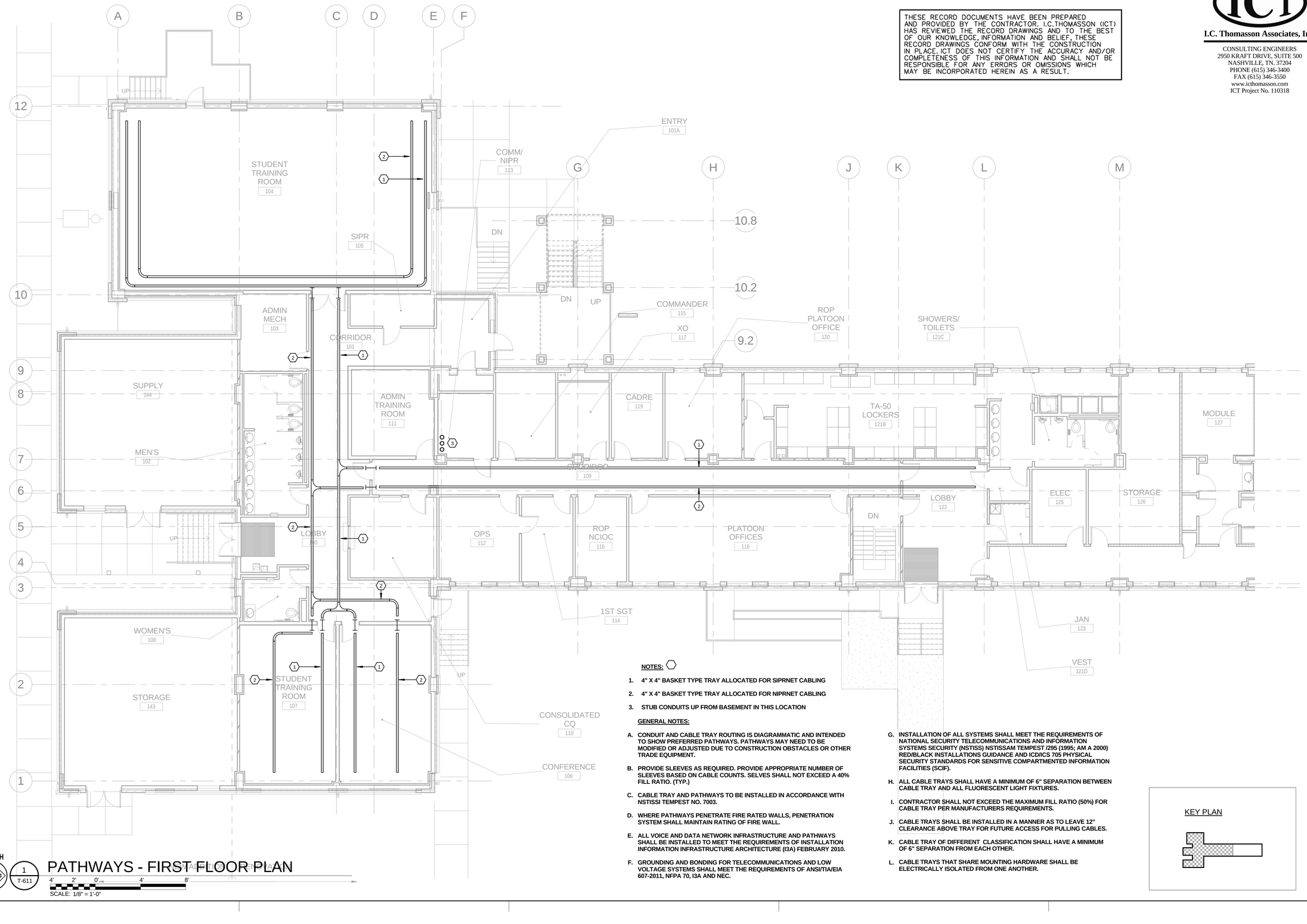
PLATE REFERENCE NUMBER
T-601
SHEET 286

DESIGNED BY: DAR		ISSUE DATE: JUNE 2013	
DRAWN BY: JKS	CHECKED BY: JKS	SOLICITATION NO.: W912HN-09-X-S107	
SUBMITTED BY: Approver		CONTRACT NO.: W912HN-10-D-0048 T.O. 0007	
FILE NAME: T-601.dwg		CATEGORY CODE:	
SIZE: 22" x 34"	PLOT SCALE: As indicated	PLOT DATE: 5/1/2015 10:35:02 AM	

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

74278- T-601-



THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

NOTES:

1. 4" X 4" BASKET TYPE TRAY ALLOCATED FOR SIPRNET CABLING
2. 4" X 4" BASKET TYPE TRAY ALLOCATED FOR NIPRNET CABLING
3. STUB CONDUITS UP FROM BASEMENT IN THIS LOCATION

GENERAL NOTES:

A. CONDUIT AND CABLE TRAY ROUTING IS DIAGRAMMATIC AND INTENDED TO SHOW PREFERRED PATHWAYS. PATHWAYS MAY NEED TO BE MODIFIED OR ADJUSTED DUE TO CONSTRUCTION OBSTACLES OR OTHER TRADE EQUIPMENT.

B. PROVIDE SLEEVES AS REQUIRED. PROVIDE APPROPRIATE NUMBER OF SLEEVES BASED ON CABLE COUNTS. SELVES SHALL NOT EXCEED A 40% FILL RATIO. (TYP.)

C. CABLE TRAY AND PATHWAYS TO BE INSTALLED IN ACCORDANCE WITH NSTISSI TEMPEST NO. 7003.

D. WHERE PATHWAYS PENETRATE FIRE RATED WALLS, PENETRATION SYSTEM SHALL MAINTAIN RATING OF FIRE WALL.

E. ALL VOICE AND DATA NETWORK INFRASTRUCTURE AND PATHWAYS SHALL BE INSTALLED TO MEET THE REQUIREMENTS OF INSTALLATION INFORMATION INFRASTRUCTURE ARCHITECTURE (I3A) FEBRUARY 2010.

F. GROUNDING AND BONDING FOR TELECOMMUNICATIONS AND LOW VOLTAGE SYSTEMS SHALL MEET THE REQUIREMENTS OF ANSI/TIA/EIA 607-2011, NFPA 70, I3A AND NEC.

G. INSTALLATION OF ALL SYSTEMS SHALL MEET THE REQUIREMENTS OF NATIONAL SECURITY TELECOMMUNICATIONS AND INFORMATION SYSTEMS SECURITY (NSTISS) NSTISSAM TEMPEST /295 (1995; AM A 2000) RED/BLACK INSTALLATIONS GUIDANCE AND ICD/ICS 705 PHYSICAL SECURITY STANDARDS FOR SENSITIVE COMPARTMENTED INFORMATION FACILITIES (SCIF).

H. ALL CABLE TRAYS SHALL HAVE A MINIMUM OF 6" SEPARATION BETWEEN CABLE TRAY AND ALL FLUORESCENT LIGHT FIXTURES.

I. CONTRACTOR SHALL NOT EXCEED THE MAXIMUM FILL RATIO (50%) FOR CABLE TRAY PER MANUFACTURERS REQUIREMENTS.

J. CABLE TRAYS SHALL BE INSTALLED IN A MANNER AS TO LEAVE 12" CLEARANCE ABOVE TRAY FOR FUTURE ACCESS FOR PULLING CABLES.

K. CABLE TRAY OF DIFFERENT CLASSIFICATION SHALL HAVE A MINIMUM OF 6" SEPARATION FROM EACH OTHER.

L. CABLE TRAYS THAT SHARE MOUNTING HARDWARE SHALL BE ELECTRICALLY ISOLATED FROM ONE ANOTHER.

KEY PLAN

NORTH

1 / T-611

PATHWAYS - FIRST FLOOR PLAN

4' 2' 0' 4' 8'

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

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
PATHWAYS - FIRST FLOOR PLAN

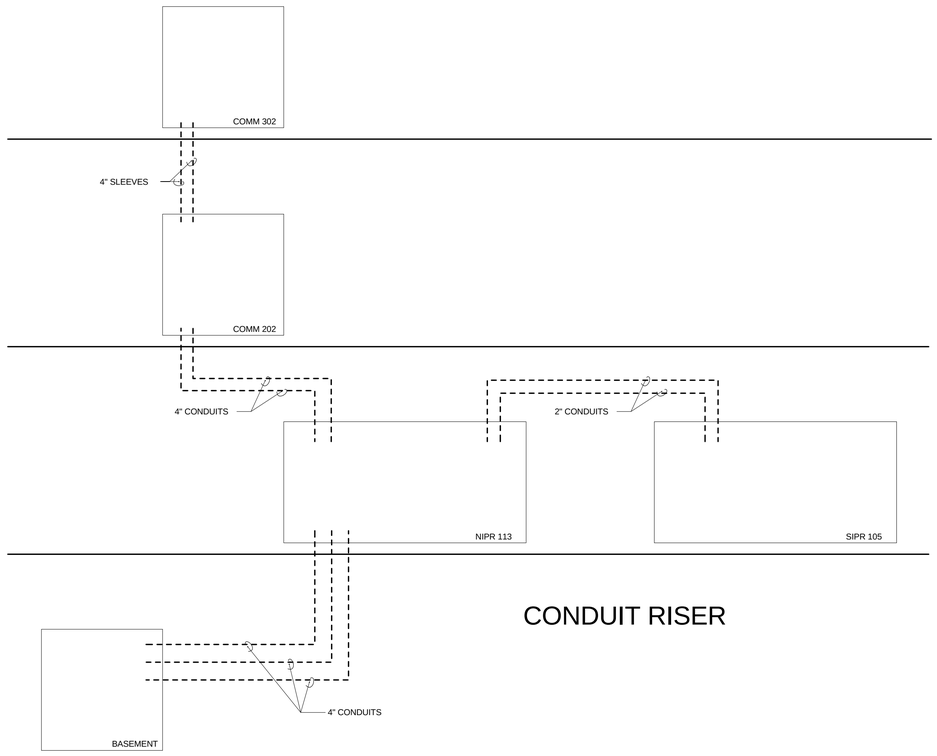
PLATE REFERENCE NUMBER
T-611
SHEET 287

DESIGNED BY: DAR	ISSUE DATE: JUNE 2013
DRAWN BY: JKS	CHECKED BY: JKS
SUBMITTED BY: Approved	SOLICITATION NO.: W912HN-09-X-5107
FILE NAME: FP1-PATHWAYS	CONTRACT NO.: W912HN-10-D-0049 T.O. 0007
SIZE: 22" x 34"	CATEGORY CODE:
	PLOT DATE: 5/1/2015 10:27:29 AM
	PLOT SCALE: As indicated

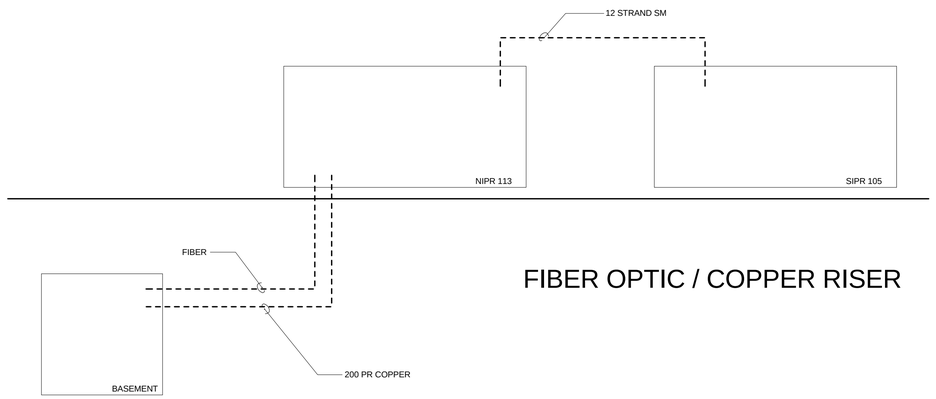
US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

74278- T-611-



CONDUIT RISER



FIBER OPTIC / COPPER RISER

GENERAL NOTES:

A. ALL VOICE AND DATA NETWORK INFRASTRUCTURE AND PATHWAYS SHALL BE INSTALLED TO MEET THE REQUIREMENTS OF INSTALLATIONINFORMATION INFRASTRUCTURE ARCHITECTURE (I3A) FEBRUARY 2010.

B. GROUNDING AND BONDING FOR TELECOMMUNICATIONS AND LOW VOLTAGE SYSTEMS SHALL MEET THE REQUIREMENTS OF ANSI/TIA/EIA 607-2011, NFPA 70, I3A AND NEC.

C. INSTALLATION OF ALL SYSTEMS SHALL MEET THE REQUIREMENTS OF NATIONAL SECURITY TELECOMMUNICATIONS AND INFORMATION SYSTEMS SECURITY (NSTISS) NSTISSAM TEMPEST /295 (1995; AM A 2000) RED/BLACK INSTALLATIONS GUIDANCE AND ICD/ICS 705 PHYSICAL SECURITY STANDARDS FOR SENSITIVE COMPARTMENTED INFORMATION FACILITIES (SCIF).

D. ALL FIBER OPTIC CABLE SHALL BE RATED IN THE APPROPRIATE PATHWAY DESIGNATED FOR THE SECURITY REQUIREMENT OF THE NETWORK CLASSIFICATION IT SHALL FEED.

E. DRAWINGS ARE INTENDED AS REFERENCE ONLY TO SHOW CONDUIT REQUIRMENTS. NOT TO BE USED TO DETERMINE FINAL LAYOUT.

TELECOMMUNICATIONS - RISER DIAGRAMS

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS
FL LIC #AA0003564

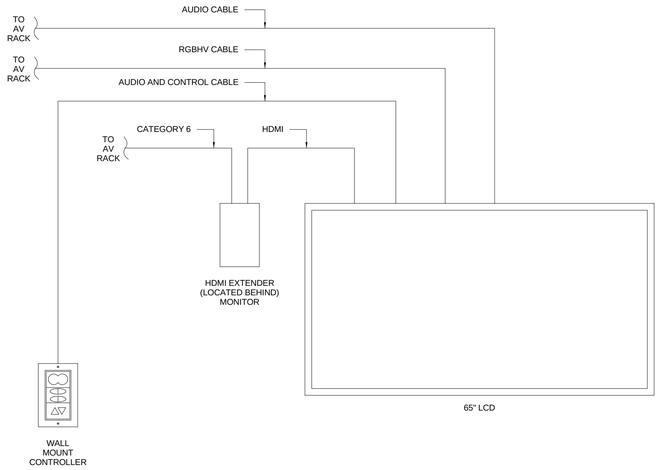
DESIGNED BY: DAR	ISSUE DATE: JUNE 2013
DRAWN BY: JKS	CHECKED BY: JKS
SUBMITTED BY: Approver	SOLICITATION NO.: W912HN-09-X-S107
FILE NAME: T701.DWG	CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
SIZE: 22" x 34"	CATEGORY CODE:
PLOT SCALE: 1" = 400'-0"	PLOT DATE: 5/1/2015 10:27:30 AM

FINAL AS-BUILT DRAWINGS

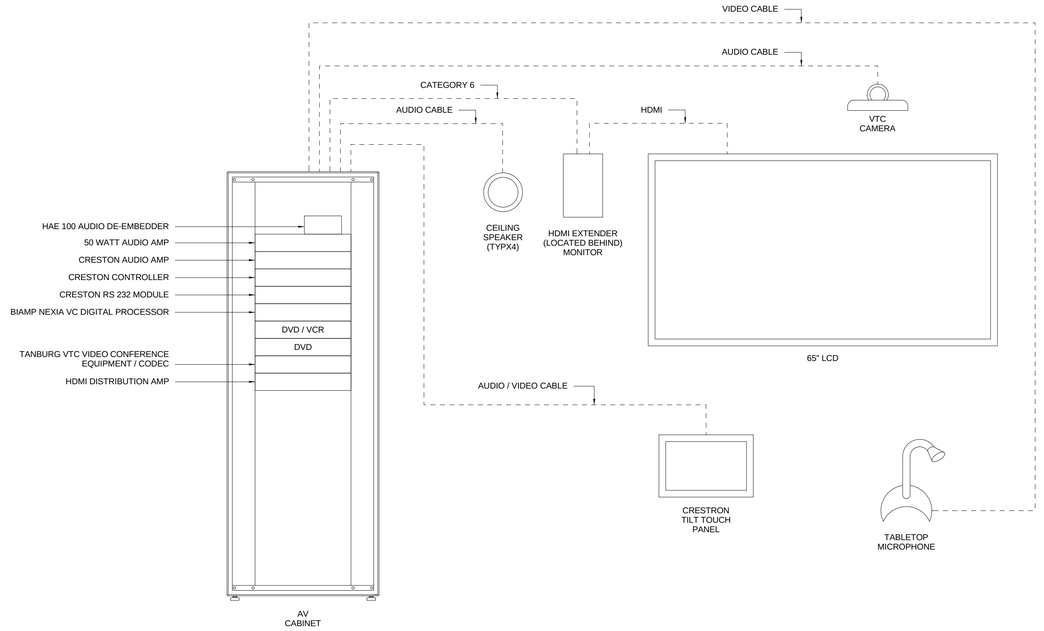
RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
TELECOMMUNICATIONS - RISER DIAGRAMS

PLATE REFERENCE NUMBER
T-701
SHEET 288

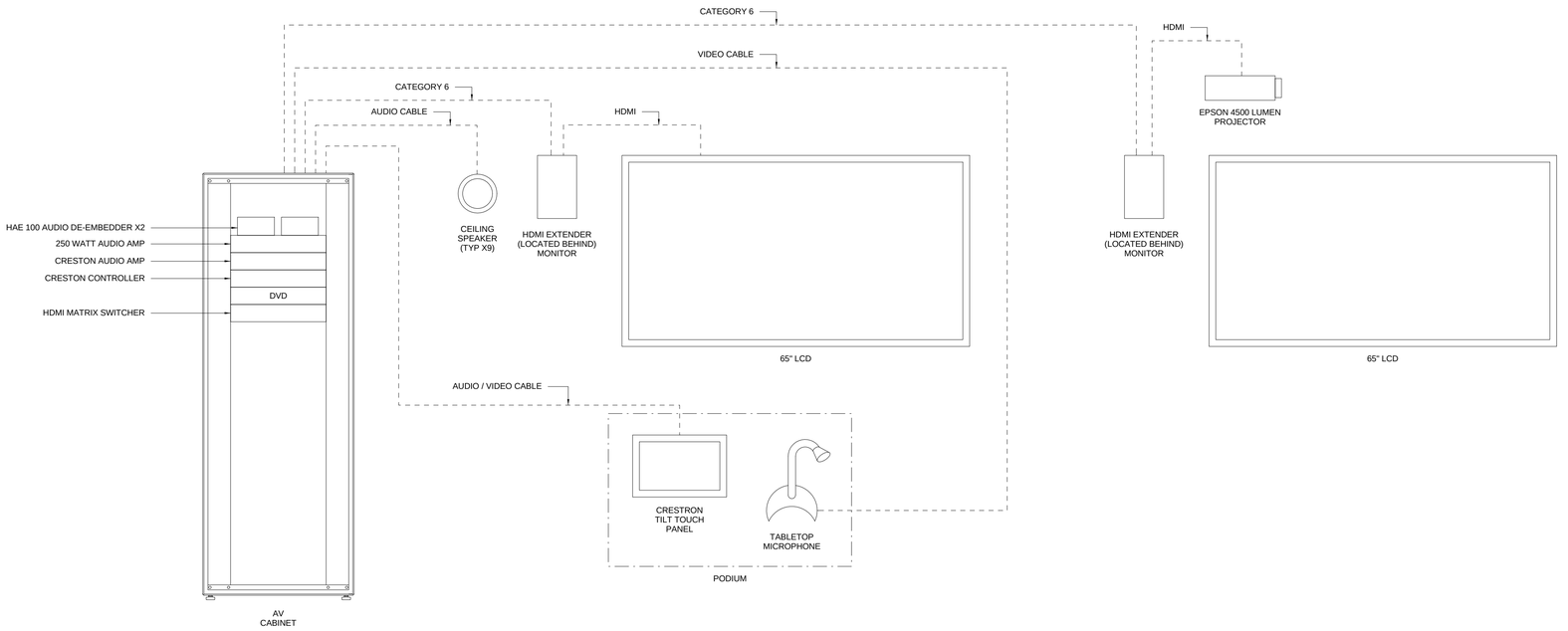
74278- T-701-



TRAINING ROOM 107



CONFERENCE ROOM 106



TRAINING ROOM 104

AUDIO VISUAL - RISER DIAGRAMS

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-S107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
DESIGNED BY: Designer
CHECKED BY: Checker
DRAWN BY: Author
SUBMITTED BY: Approver
CATEGORY CODE:
FILE NAME: T702-AVA
SIZE: 22" x 34"
PLOT SCALE: 1 : 150
PLOT DATE: 5/1/2015 10:27:30 AM

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS

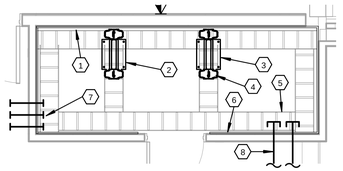
FL LIC #AA0003564

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
AUDIO VISUAL - RISER DIAGRAMS

PLATE REFERENCE NUMBER
T-702
SHEET 289

74278- T-702-



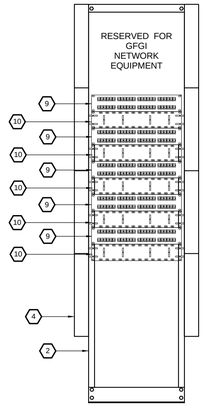
NORTH

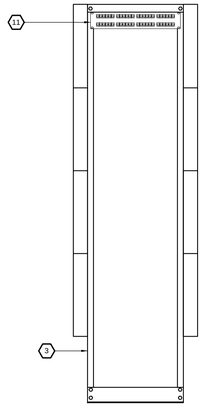
1 T-801

FIRST FLOOR SIPR

4' 2' 0' 4' 8'

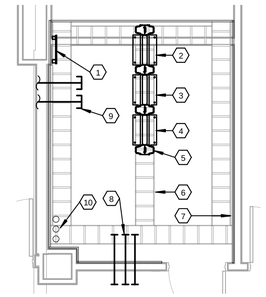
SCALE: 1/4" = 1'-0"





NOTES:

1. TELECOMMUNICATIONS MAIN GROUNDING BUS BAR. (18"AFF)
2. 7' X 19" RELAY RACK (RACK 1)
3. 7' X 19" RELAY RACK (RACK 2)
4. VERTICAL WIRE MANAGEMENT (TYP)
5. 12" LADDER RACKING (TYP)
6. WRAP ENTIRE ROOM IN FIRE RETARDANT PLYWOOD.
7. 3 X 4" SLEEVES
8. 2 X 2" CONDUITS TO NIPR
9. 48 PORT CATEGORY 6 PATCH PANEL
10. HORIZONTAL WIRE MANAGER
11. FIBER PANEL



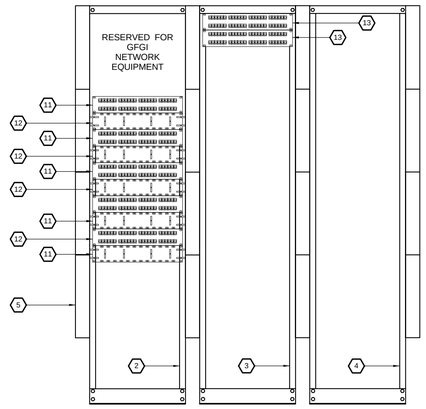
NORTH

2 T-801

FIRST FLOOR NIPR

4' 2' 0' 4' 8'

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



NOTES:

1. TELECOMMUNICATIONS MAIN GROUNDING BUS BAR. (18"AFF)
2. 7' X 19" RELAY RACK (RACK 1)
3. 7' X 19" RELAY RACK (RACK 2)
4. 7' X 19" RELAY RACK (RACK 3)
5. VERTICAL WIRE MANAGEMENT (TYP)
6. 12" LADDER RACKING (TYP)
7. WRAP ENTIRE ROOM IN FIRE RETARDANT PLYWOOD.
8. 3 X 4" SLEEVES
9. 2 X 2" CONDUITS TO SIPR
10. CONDUIT STUBS UP FROM BASEMENT
11. 48 PORT CATEGORY 6 PATCH PANEL
12. HORIZONTAL WIRE MANAGER
13. FIBER PANEL

GENERAL NOTES:

A. CONTRACTOR SHALL COORDINATE WITH OWNER / USER PRIOR TO ROUTING CABLES AND MOUNTING PATCH PANELS TO CONFIRM FINAL PLACEMENT.

B. INSTALL FIRE RETARDANT A/C GRADE PLYWOOD. PROVIDE TWO COATS OF FIRE RETARDANT GREY PAINT. DO NOT PAINT OVER LABEL.

C. EACH CFCI COMMUNICATIONS RELAY RACK AND OR CABINET SHALL BE GROUNDED TO THE TELECOMMUNICATIONS GROUNDING BUSBAR WITH A # 6 AWG GROUNDING CONDUCTOR.

D. A MINIMUM CLEARANCE OF 36" IS TO BE MAINTAINED AT FRONT, BACK AND SIDE OF ALL RACKS AND CABINETS. EXCEPTION: WHERE RACKS / CABINETS ARE JOINED TOGETHER OR ABOUT WALL FOR SMALLER TRS.

E. ALL VOICE AND DATA NETWORK INFRASTRUCTURE AND PATHWAYS SHALL BE INSTALLED TO MEET THE REQUIREMENTS OF INSTALLATION INFORMATION INFRASTRUCTURE ARCHITECTURE I3A, NEC. FEBRUARY 2010.

F. GROUNDING AND BONDING FOR TELECOMMUNICATIONS AND LOW VOLTAGE SYSTEMS SHALL MEET THE REQUIREMENTS OF ANSI/TIA/EIA 607-2011, NFPA 70, I3A, AND NEC.

G. INSTALLATION OF ALL SYSTEMS SHALL MEET THE REQUIREMENTS OF NATIONAL SECURITY TELECOMMUNICATIONS AND INFORMATION SYSTEMS SECURITY (NSTISS) NSTISSAM TEMPEST /295 (1995; AM A 2000) RED/BLACK INSTALLATIONS GUIDANCE AND ICD/ICS 705 PHYSICAL SECURITY STANDARDS FOR SENSITIVE COMPARTMENTED INFORMATION FACILITIES (SCIF).

H. RACK ELEVATIONS ARE DIAGRAMMATIC. ACTUAL PATCH PANEL COUNTS MAY VARY DEPENDANT ON CABLE COUNT. CONTRACTOR SHALL PROVIDE APPROPRIATE NUMBER OF PATCH PANELS REQUIRED.

TELECOMMUNICATIONS - ELEVATIONS

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.ictthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D-5048 T.O. 0007
CATEGORY CODE:
PLOT DATE: 5/1/2015 10:27:43 AM

DESIGNED BY: DAR
DRAWN BY: JKS
CHECKED BY: JKS
SUBMITTED BY: Approver
FILE NAME: T-801.dwg
SIZE: 22" x 34"
PLOT SCALE: As indicated

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS

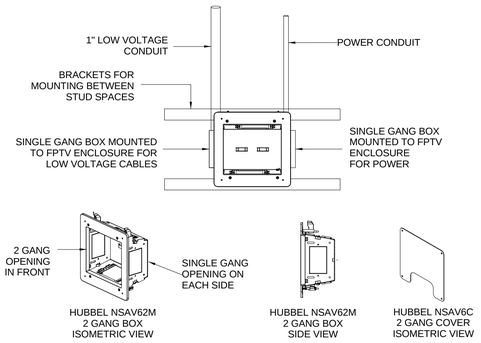
FL LIC #AA0003564

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
TELECOMMUNICATIONS - ELEVATIONS

PLATE REFERENCE NUMBER
T-801
SHEET 190

74278- T-801-

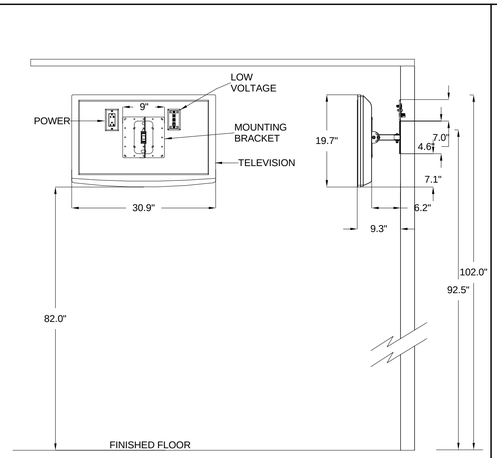


NOTES:

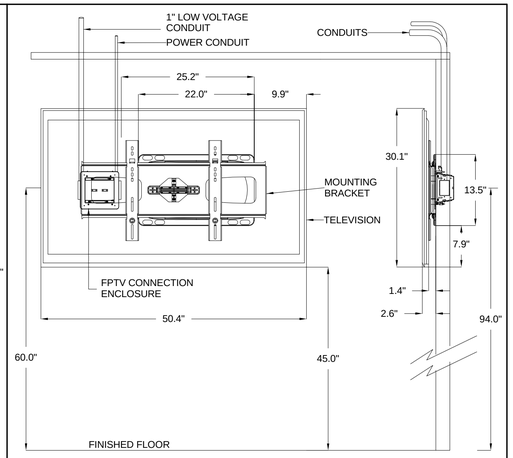
A. TV OUTLET REQUIRED IS A STANDARD TWO GANG HOLE UTILIZING A HUBBELL RECESSED ENCLOSURE, PART # NSAV62M. A 110V DUPLEX POWER(REFERENCE PART# NSOKP) OUTLET SHOULD BE PROVIDED BY ELECTRICAL CONTRACTOR, TO BE MOUNTED ON HUBBELL ENCLOSURE.

B. INSTALLATION HEIGHT OF FPTV FLAT PANEL CONNECTION ENCLOSURE TO BE DETERMINED BY ARCHITECT.

FPTV FLAT PANEL CONNECTION ENCLOSURE DETAIL — 1
No Scale



32" FLAT PANEL LED DETAIL — 2
No Scale



65" FLAT PANEL LED WALL MOUNT DETAIL — 3
No Scale

SYSTEMS - DETAILS

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

FINAL AS-BUILT DRAWINGS

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
SYSTEM DETAILS

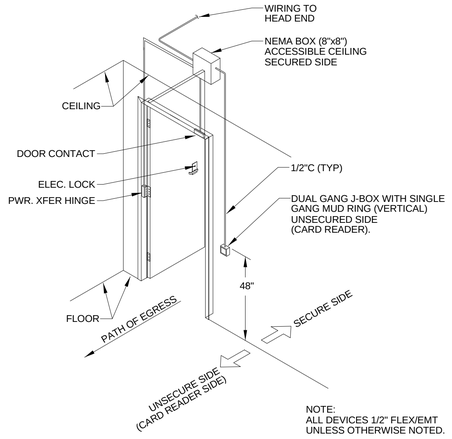
US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502
© 2012 STOA ARCHITECTS
FL LIC #AA0003984

DESIGNED BY: DAR
DRAWN BY: JKS
CHECKED BY: JKS
SUBMITTED BY: Approver
FILE NAME: T930.dwg
SIZE: 22" x 34"
PLOT SCALE: 1 : 1.30
ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
PLOT DATE: 5/1/2015 10:27:45 AM

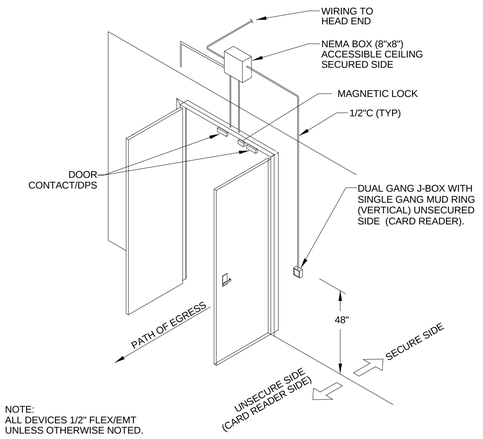
PLATE REFERENCE NUMBER
T-930
SHEET 291

74278- T-930-



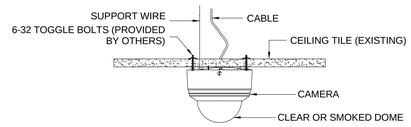
NOTE:
ALL DEVICES 1/2" FLEX/EMT
UNLESS OTHERWISE NOTED.

SINGLE DOOR, ELECTRIFIED CYLNDRICAL LOCK, FAIL SECURE, INTEGRATED REX LOCAL P/S — 1
No Scale

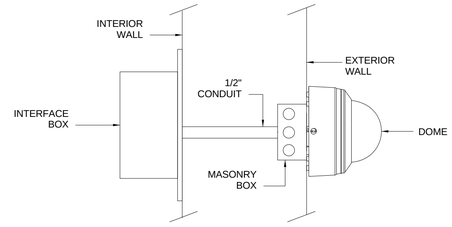


NOTE:
ALL DEVICES 1/2" FLEX/EMT
UNLESS OTHERWISE NOTED.

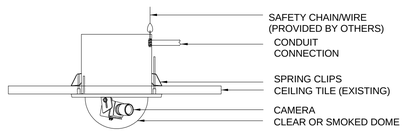
DOUBLE DOOR WITH CARD READER AND MAGNETIC LOCK DETAIL — 2
No Scale



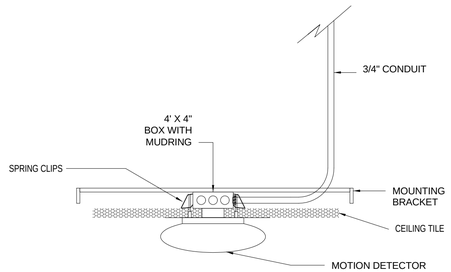
TYPICAL CEILING MOUNTED CCTV CAMERA DETAIL — 3
No Scale



TYPICAL EXTERIOR FIXED MOUNT CCTV CAMERA DETAIL — 4
No Scale



TYPICAL CEILING MOUNTED CCTV CAMERA DETAIL — 5
No Scale



TYPICAL CEILING MOUNTED MOTION DETECTOR DETAIL — 6
No Scale

GENERAL NOTES:

A. **ALL ESS SYSTEM BACK BOXES THAT ARE NOT OCCUPIED BY A DEVICE SHALL HAVE A BLANK FACEPLATE INSTALLED.**

B. **ACTUAL PRODUCT DETAILS MAY VARY BY MANUFACTURER, MANUFACTURES INSTALLATION INSTRUCTIONS, AND APPROVED SHOP DRAWING DETAILS.**

C. **ALL ACCESS CONTROL WIRING SHALL BE CONCEALED.**

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

SECURITY - DETAILS

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: DAR	CHECKED BY: JKS	ISSUE DATE: JUNE 2013	SOLICITATION NO.: W912HN-09-X-S107
DRAWN BY: JKS			CONTRACT NO.: W912HN-10-D-0049 T.O. 0007
SUBMITTED BY: Approver			CATEGORY CODE:
FILE NAME: T940.DWG			PLOT DATE: 5/1/2015 10:27:59 AM
SIZE: 22" x 34"	PLOT SCALE: 1 : 130		

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS

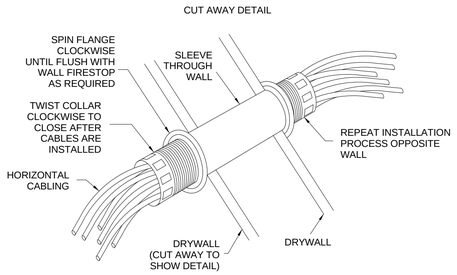
FL LIC #AA0003564

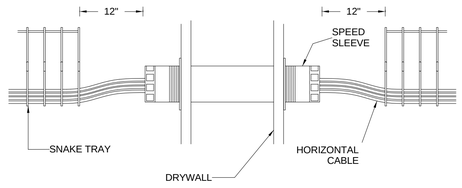
FINAL AS-BUILT DRAWINGS

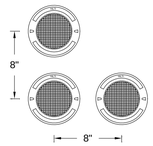
RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
SECURITY DETAILS

PLATE REFERENCE NUMBER
T-940
SHEET 292

74278- T-940-







MULTIPLE PENETRATION DETAIL

CP 653 2" SPEED SLEEVE

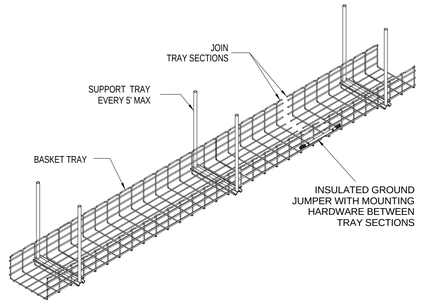
CP 653 4" SPEED SLEEVE

SYSTEM NO. W-J-3167 F RATING — 2 HR T RATINGS — 0, 1, 1-3/4 AND 2 HR L RATINGS AT AMBIENT — LESS THAN 1 CFM/SQ FT, 5 CFM/SQ FT AND 9 CFM/SQ FT, OR LESS THAN 1 CFM/UNIT AND 1 CFM/UNIT (SEE ITEM 2) L RATING AT 400F — LESS THAN 1 CFM/SQ FT, 1 CFM/SQ FT AND 10 CFM/SQ FT , OR LESS THAN 1 CFM/UNIT AND 1 CFM/UNIT

HITLI SPEED FIRE STOP SLEEVE PATHWAY WITH SNAKE TRAY DETAIL

No Scale

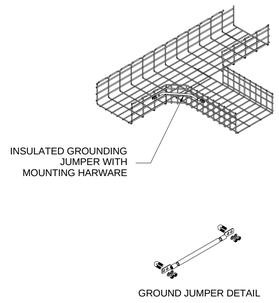
1



SINGLE TIER BASKET TRAY MOUNTING DETAILS WITH BONDING JUMPER DETAILS

No Scale

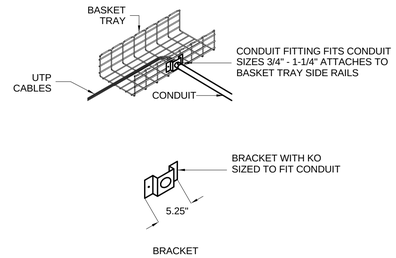
2



BASKET TRAY GROUNDING DETAILS DETAIL

No Scale

3



CONDUIT TO BASKET TRAY DETAIL

No Scale

4

GENERAL NOTES:

A. **ALL VOICE AND DATA NETWORK INFRASTRUCTURE AND PATHWAYS SHALL BE INSTALLED TO MEET THE REQUIREMENTS OF INSTALLATION INFORMATION INFRASTRUCTURE ARCHITECTURE I3A, NEC FEBRUARY 2010.**

B. **GROUNDING AND BONDING FOR TELECOMMUNICATIONS AND LOW VOLTAGE SYSTEMS SHALL MEET THE REQUIREMENTS OF ANSI/TIA/EIA 607-2011, NEC AND NFPA 70.**

C. **ACTUAL PRODUCT DETAILS MAY VARY BY MANUFACTURER, MANUFACTURES INSTALLATION INSTRUCTIONS, AND APPROVED SHOP DRAWING DETAILS.**

D. **CABLE TRAY SIZES VARY. REFER TO SHEETS T-601 AND T-611 FOR EXACT SIZINGS, TYPE AND PLACEMENT.**

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

PATHWAY - DETAILS

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.icthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: DAF	CHECKED BY: JKS	ISSUE DATE: JUNE 2013	
DRAWN BY: JKS	SUBMITTED BY: Approval	SOLICITATION NO.: W912HN-09-X-5107	
FILE NAME: T960.DGN		CONTRACT NO.: W912HN-10-D-0049 T.O. 0007	
SIZE: 22" x 34"	PLOT SCALE: 1 : 130	CATEGORY CODE:	
		PLOT DATE: 5/1/2015 10:27:56 AM	

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

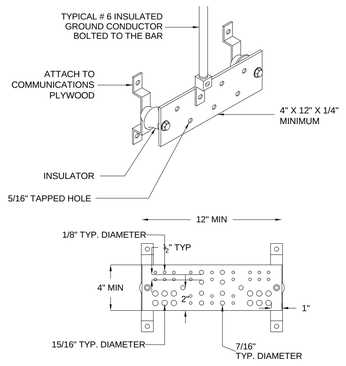
© 2012 STOA ARCHITECTS
FL LIC #AA0003564

FINAL AS-BUILT DRAWINGS

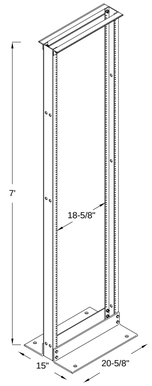
RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
PATHWAY DETAILS

PLATE REFERENCE NUMBER
T-960
SHEET 293

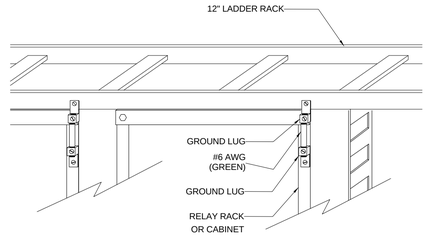
74278- T-960-



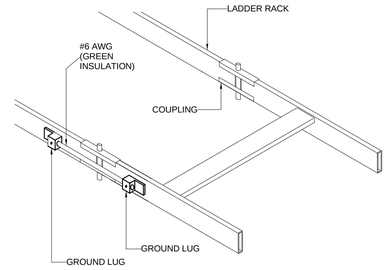
TELECOMMUNICATIONS MAIN GROUNDING BUSBAR DETAIL — 1
No Scale



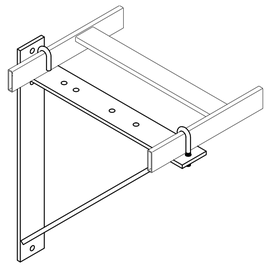
STANDARD 19" RELAY RACK DETAIL — 2
No Scale



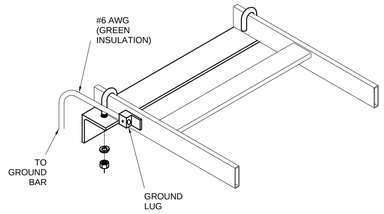
LADDER RACK TO RACK / CABINET BONDING DETAIL — 3
No Scale



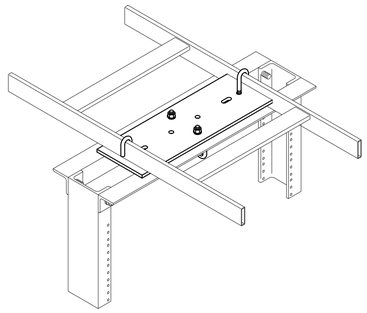
LADDER RACK TO LADDER RACK BONDING DETAIL — 4
No Scale



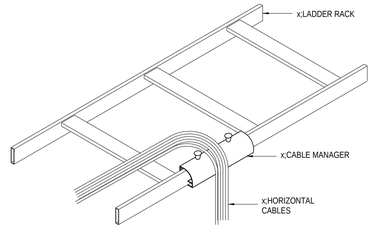
TRIANGULAR SUPPORT BRACKET DETAIL — 5
No Scale



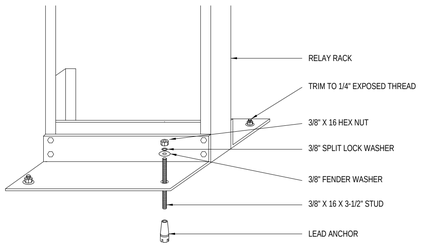
LADDER RACK TO WALL BRACKET DETAIL — 6
No Scale



LADDER RACK TO RELAY RACK DETAIL — 7
No Scale



WATERFALL CABLE MANAGER FOR LADDER RACK DETAIL — 8
No Scale



RELAY RACK STANDARD ANCHORING DETAIL — 9
No Scale

GENERAL NOTES:

A. **ALL VOICE AND DATA NETWORK INFRASTRUCTURE AND PATHWAYS SHALL BE INSTALLED TO MEET THE REQUIREMENTS OF INSTALLATION INFORMATION INFRASTRUCTURE ARCHITECTURE I3A, NEC FEBRUARY 2010.**

B. **GROUNDING AND BONDING FOR TELECOMMUNICATIONS AND LOW VOLTAGE SYSTEMS SHALL MEET THE REQUIREMENTS OF ANSI/TIA/EIA 607-2011, NEC AND NFPA 70.**

C. **ACTUAL PRODUCT DETAILS MAY VARY BY MANUFACTURER, MANUFACTURES INSTALLATION INSTRUCTIONS, AND APPROVED SHOP DRAWING DETAILS.**

THESE RECORD DOCUMENTS HAVE BEEN PREPARED AND PROVIDED BY THE CONTRACTOR. I.C.THOMASSON (ICT) HAS REVIEWED THE RECORD DRAWINGS AND TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS CONFORM WITH THE CONSTRUCTION IN PLACE. ICT DOES NOT CERTIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

PATHWAY - DETAILS

I.C. Thomasson Associates, Inc.
CONSULTING ENGINEERS
2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN. 37204
PHONE (615) 346-3400
FAX (615) 346-3550
www.ictthomasson.com
ICT Project No. 110318

US Army Corps of Engineers ®
SAVANNAH DISTRICT

MARK	DESCRIPTION	DATE	APPR.

ISSUE DATE: JUNE 2013
SOLICITATION NO.: W912HN-09-X-5107
CONTRACT NO.: W912HN-10-D-0048 T.O. 0007
CATEGORY CODE:
PLOT DATE: 5/1/2015 10:28:00 AM

DESIGNED BY: Designer
DRAWN BY: Author
CHECKED BY: Checker
SUBMITTED BY: Approver
FILE NAME: T-961-DETAILS
SIZE: 22" x 34"
PLOT SCALE: 1 : 145

US ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

STOA ARCHITECTS
121 E GOVERNMENT STREET
PENSACOLA, FL 32502

© 2012 STOA ARCHITECTS
FL LIC #AA0003564

FINAL AS-BUILT DRAWINGS

RENOVATION OF RIP ROPE
BUILDING 2833
FORT BENNING, GA
FY2011 LI 74278
PATHWAY - DETAILS

PLATE REFERENCE NUMBER
T-961
SHEET 294

74278- T-961-