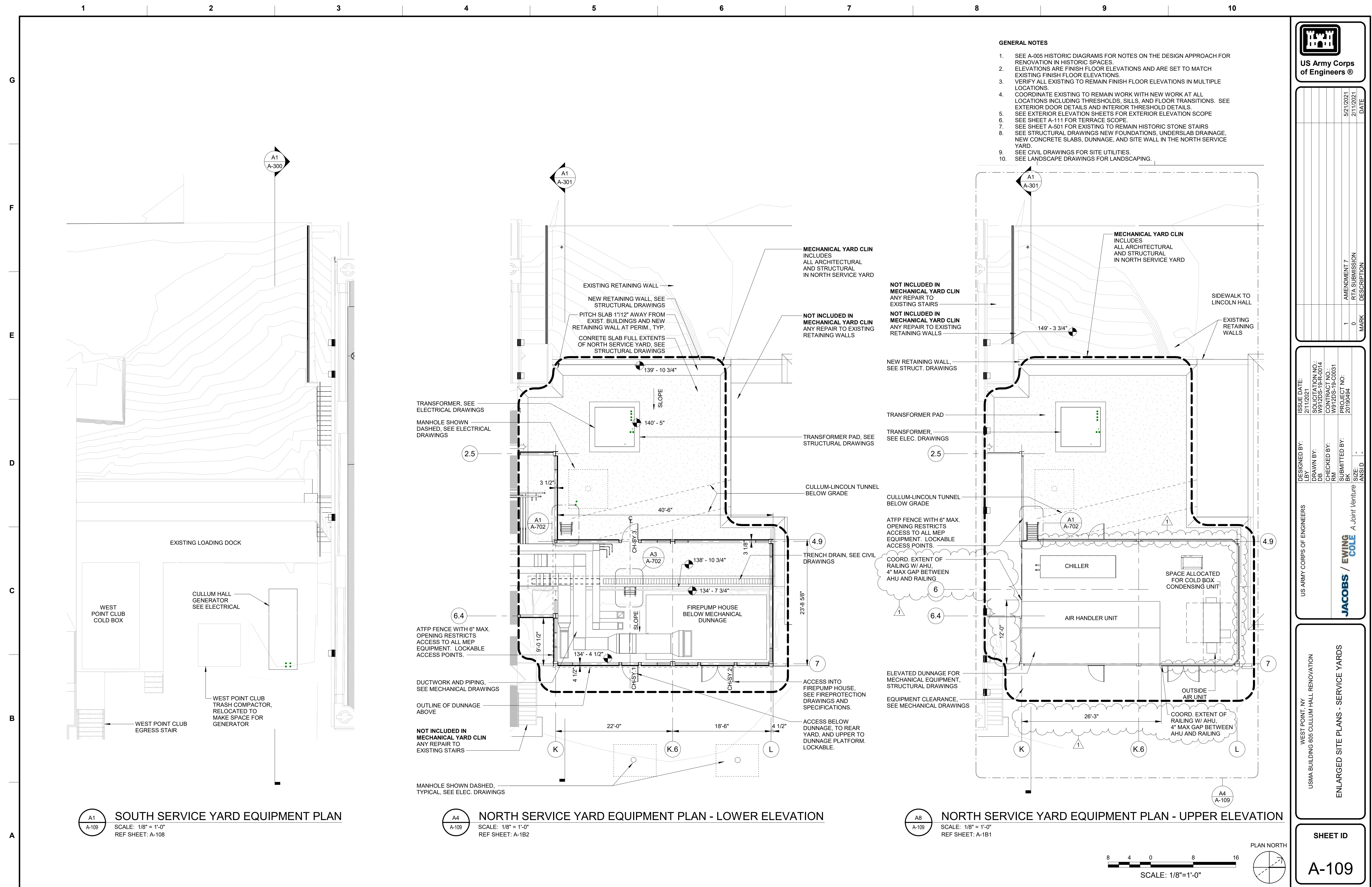
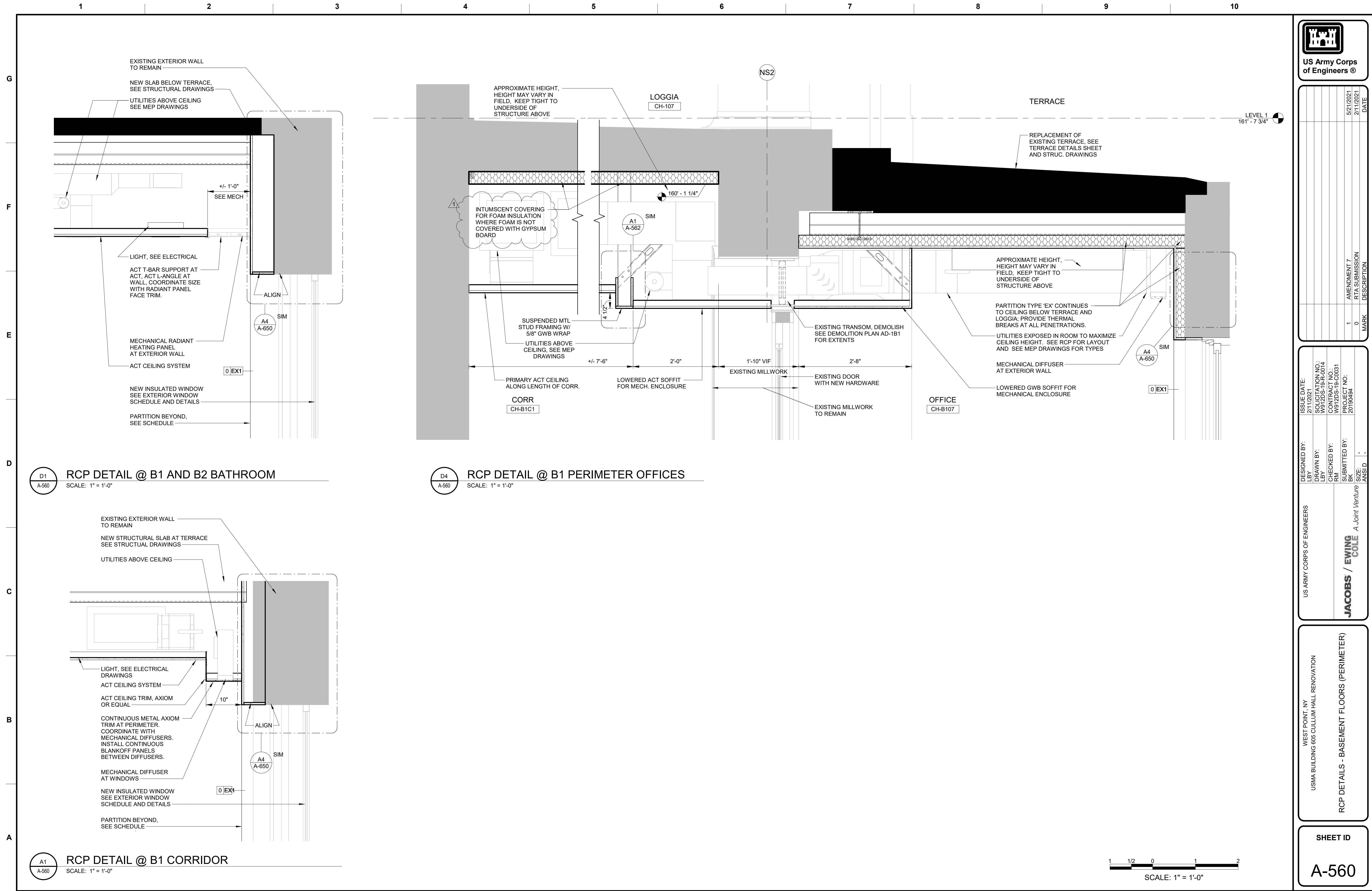


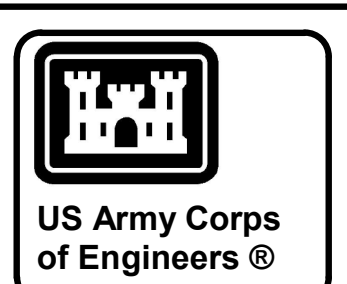
NOTE:
PRIOR TO WELDING TO EXISTING FRAMING, PERFORM MATERIAL TESTING TO DETERMINE WELDABILITY OF MEMBERS. CONFIRM BEAMS ARE MEDIUM STEEL WITH Fy=35 KSI AND Fu=55 KSI AS NOTED IN THE EXISTING BUILDING SPECIFICATIONS (ATTACHED TO DESIGN ANALYSIS HANDBOOK IN VOLUME 8.)

TEXT IN EXISTING SPECIFICATIONS IS WRITTEN THUS, "ALL ROLLED OR RIVETED GIRDERS, BEAMS, ROOF TRUSSES, RATERS, PURLINS, FLOORING FOR CEILINGS, OR OTHER STRUCTURAL WORK, UNLESS OTHERWISE DIRECTED OR SHOWN ON PLANS, SHALL BE MADE TO DIMENSIONS GIVEN OF MEDIUM STEEL OF SUCH QUALITY AS WILL FILL THE REQUIREMENTS GIVEN BELOW: ULTIMATE TENSILE STRENGTH 55,000 TO 65,000 LBS. PER SQUARE INCH, ELASTIC LIMIT NOT LESS THAN 35,000 LBS. PER SQUARE INCH."

RTA SUBMISSION 2/11/2021







US Army Corps
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ISSUE DATE:	2/11/2021	DATE	5/21/2021
DESIGNED BY:	LEB	MARK	0
DRAWN BY:	LEB	DESCRIPTION	RTA SUBMISSION
CHECKED BY:	LEB		
PROJECT NO.:	20190494		
AMENDMENT 7			

US ARMY CORPS OF ENGINEERS

WEST POINT, NY

USMA BUILDING 805 CULLUM HALL RENOVATION

RCP DETAILS - BASEMENT FLOORS (PERIMETER)

SHEET ID

A-560

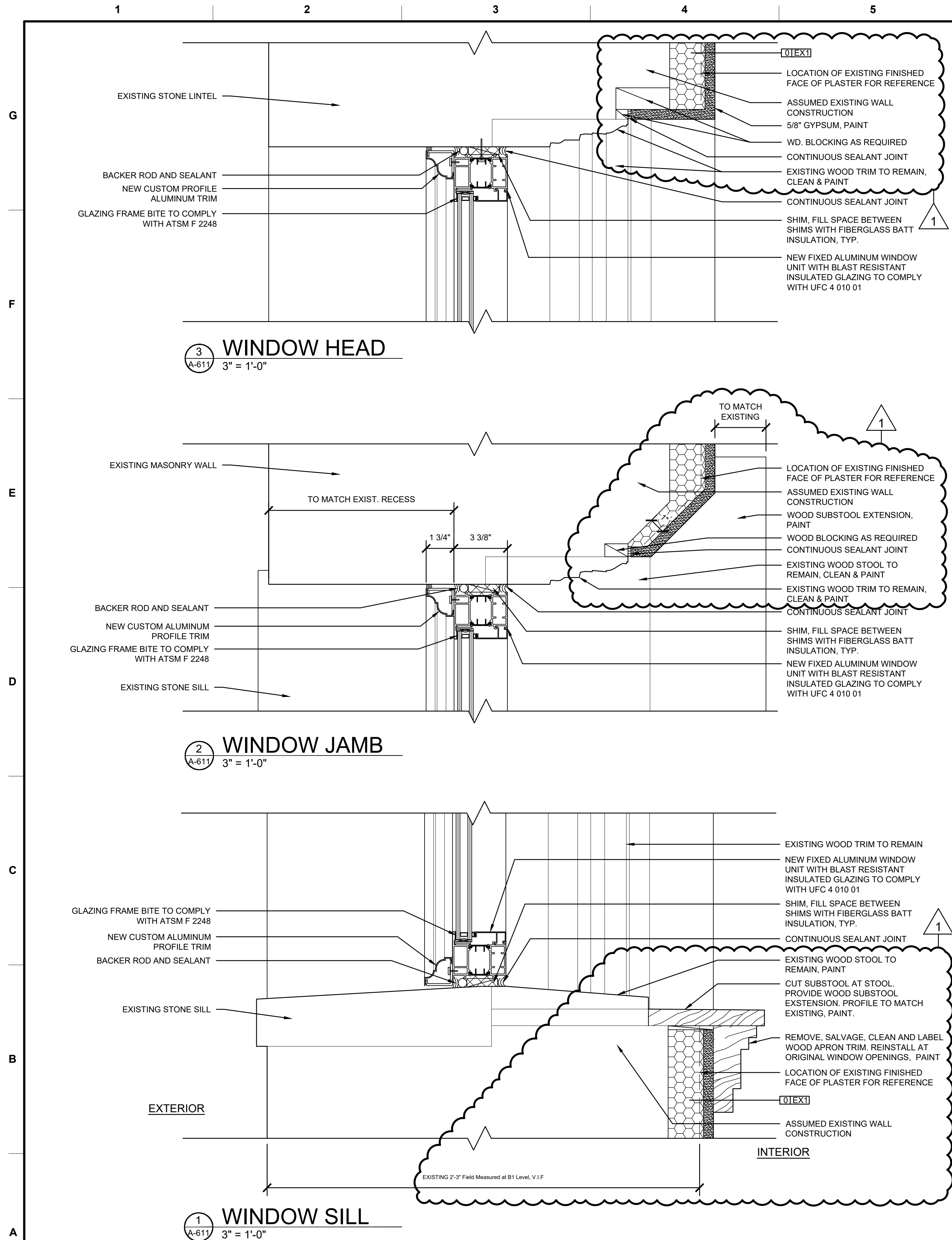
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USMA BUILDING 805 CULLUM HALL RENOVATION

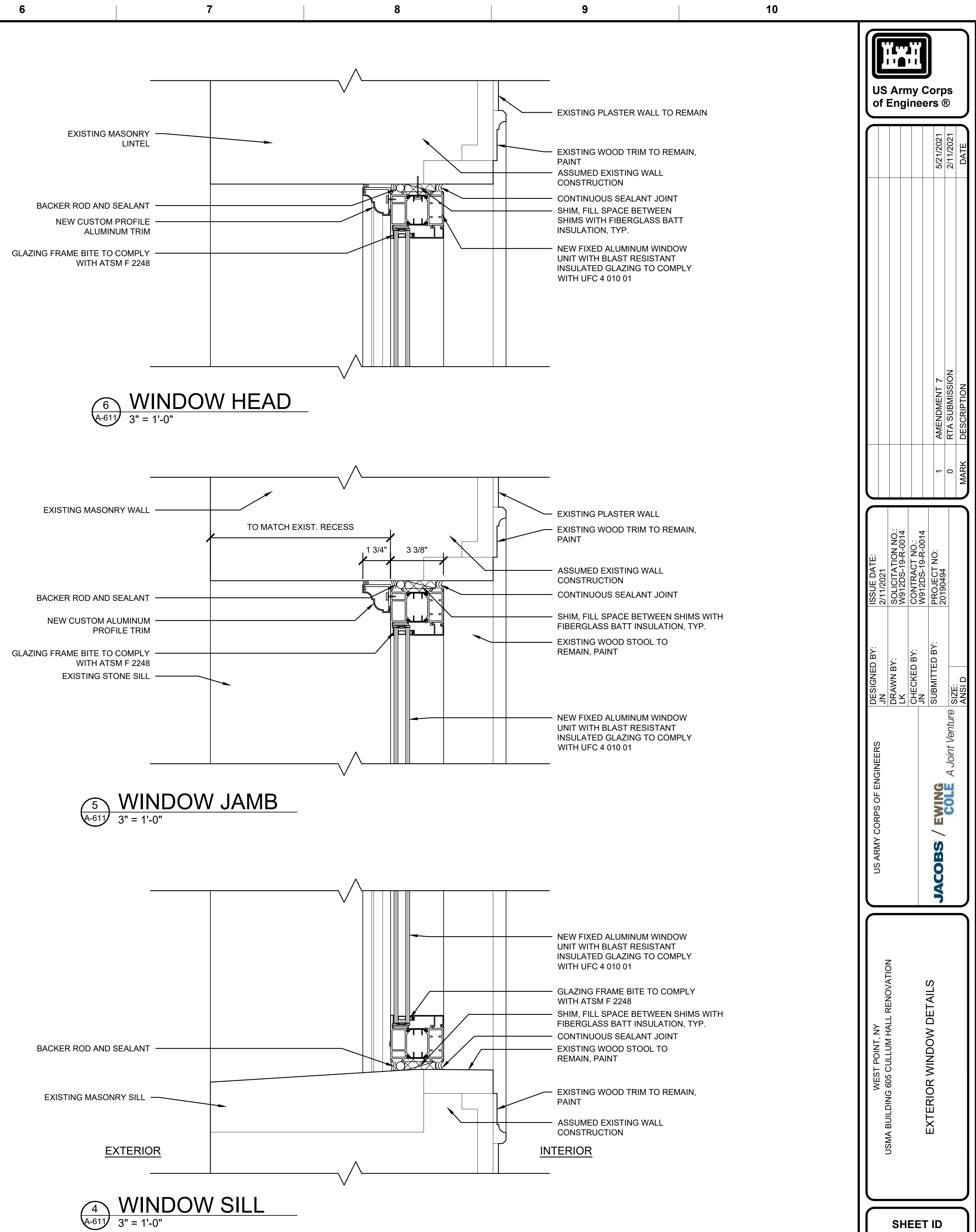
RCP DETAILS - BASEMENT FLOORS (PERIMETER)

SHEET ID

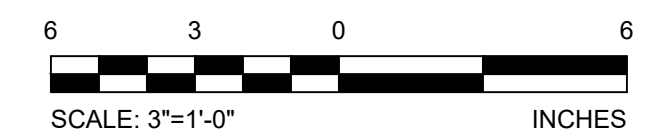
A-560



B1 & B2 LEVEL WINDOWS



NORTH AND SOUTH FIXED WINDOWS



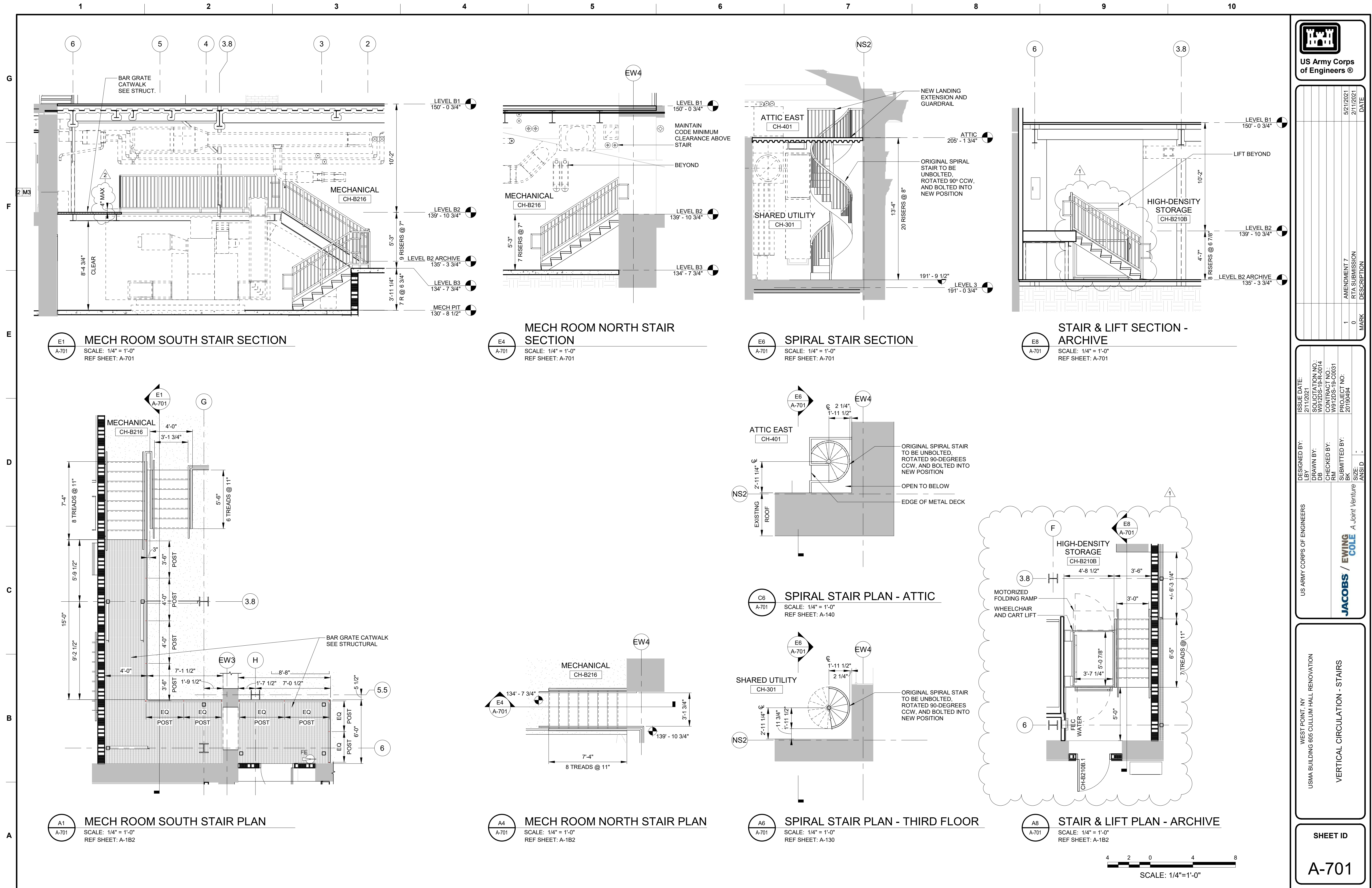
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DATE	DESCRIPTION	MARK
5/21/2021	AMENDMENT 7	1
2/11/2021	RTA SUBMISSION	0

DESIGNED BY: JIN	ISSUE DATE: 2/11/2021	SOLICITATION NO.: W12DS-18R-0014
DRAWN BY: JIN	CHECKED BY: JIN	PROJECT NO.: 20190494
SUBMITTED BY: JIN	SIZE: ANSI D	

WEST POINT, NY
USMA BUILDING 605 CULLUM HALL RENOVATION
EXTERIOR WINDOW DETAILS

SHEET ID
A-611



	1	2	3	4	5	6	7	8	9	10														
	MECHANICAL / PLUMBING EQUIPMENT COORDINATION SCHEDULE																							
	EQUIPMENT IDENTIFICATION				LOCAL DISCONNECT DEVICE				STARTER										REMARKS (E.G. SKID MOUNTED, PACKAGED, ETC.)					
EQUIPMENT TAG	DESCRIPTION	PHYSICAL LOCATION	AREA / SPACE SERVED	ELECTRICAL PANEL/SOURCE	HP	FLA	KW	VOLTS-Ø	UNFUSED SWITCH	FUSED SWITCH	FHP MAN. MOTOR SWITCH	PROVIDED BY	TYPE			COMBINATION		ACCESSORIES					PROVIDED BY	
													MAN.	MAG.	VFD	MCP	SW UNF	SW FU	ON/OFF SW	PB	HOA SW	PILOT		
AHU-1	SUPPLY FANS	BASEMENT MER	LEVELS B1 & B2 - ARCHIVES	DP-OS	(4) 5	30		460/3									X						DIV 23	EMERGENCY POWER
AHU-2	SUPPLY FANS	NORTH SERVICE YARD	LEVELS B1 & B2 - BUFFER ZONES	DP-M-1	(4) 5	30		460/3								X							DIV 23	
	RETURN FANS	NORTH SERVICE YARD	LEVELS B1 & B2 - BUFFER ZONES	DP-M-1	(4) 3	19		460/3								X							DIV 23	
AHU-3	SUPPLY FANS	ABOVE STAGE	LEVELS 1 & 2 - BALL ROOM & MEMORIAL ROOM	DP-M-2	(4) 7.5	44		460/3								X							DIV 23	
B-1	BOILER	BASEMENT MER	EMERGENCY HEATING	AP-OS-B1			1.7	120/1																EMERGENCY POWER / CP BY DIV 23
CH-1	AIR-COOLED CHILLER	NORTH SERVICE YARD	EMERGENCY COOLING	DP-OS			31.86	460/3							X								DIV 23	EMERGENCY POWER
CP-1	CONDENSATE PUMP	SEE DRAWINGS	FCU 2M-1 & FCU B3-1 & FCU B3-2		1/5		0.6	120/1																
CUH-1-1	CABINET UNIT HEATER	CH-103A	CH-103A	AP-M-B2	0.25		0.48	120/1	X			DIV 23												
CUH-1-2	CABINET UNIT HEATER	CH-105	CH-105	AP-M-B2	0.25		0.48	120/1	X			DIV 23												
CUH-B2-1	CABINET UNIT HEATER	B205	B205	AP-M-B2	0.13		0.3	120/1	X			DIV 23												
CUH-B2-2	CABINET UNIT HEATER	B217	B217	AP-M-B2	0.13		0.3	120/1	X			DIV 23												
CUH-B1-1	CABINET UNIT HEATER	B100	B100	AP-M-B2	0.13		0.3	120/1	X			DIV 23												
CUH-B1-2	CABINET UNIT HEATER	B122	B122	AP-M-B2	0.13		0.3	120/1	X			DIV 23												
CUH-B1-3	CABINET UNIT HEATER	NW STAIR	NW STAIR	AP-M-B2	0.13		0.3	120/1	X			DIV 23												
CR-1	CONDENSATE RECEIVER	BASEMENT MER	CULLUM CONDENSATE RETURN	DP-M-1	(2) 0.5	2		460/3	X			DIV 23	X							X		DIV 23	CP BY DIV 23	
CR-2	CONDENSATE RECEIVER	TUNNEL	CULLUM/LINCOLN CONDENSATE RETURN	DP-M-1	(2) 0.5	2		460/3	X			DIV 23	X							X		DIV 23	CP BY DIV 23	
CRU-B1-1	COMPUTER ROOM UNIT	MAIN TELECOM	MAIN TELECOM	AP-OS-B1		30		208/1	X			DIV 26												EMERGENCY POWER
CRU-B1-2	COMPUTER ROOM UNIT	MAIN TELECOM	MAIN TELECOM	AP-OS-B1		30		208/1	X			DIV 26												EMERGENCY POWER
DHU-1	DEHUMIDIFIER	BASEMENT MER	ARCHIVES	DP-OS		5		460/3	X			DIV 26												EMERGENCY POWER
DHU-2	DEHUMIDIFIER	BASEMENT MER	COLD STORAGE	AP-OS-B1		2.35		208/1	X			DIV 26												EMERGENCY POWER
EF-1	EXHAUST FAN	TUNNEL (EAST)	GENERAL EXHAUST	DP-M-1	1.5	3		460/3	X			DIV 23												
EW-1	ELECTRIC WATER HEATER	SEE DRAWINGS	RESTROOM SINKS	AP-M-B2			3.5	120/1				DIV 26												
EW-2	ELECTRIC WATER HEATER	SEE DRAWINGS	GENERAL HOT WATER	AP-M-B2			1.5	120/1			X	DIV 26												
FCU-B3-1	FAN COIL UNIT	TUNNEL NE	TUNNEL NE	AP-M-B2	0.03		0.5	208/1	X			DIV 23												
FCU-B3-2	FAN COIL UNIT	TUNNEL SE	TUNNEL SE	AP-M-B2	0.03		0.5	208/1	X			DIV 23												
FCU-B2-1	FAN COIL UNIT	B219	B219	AP-M-B2	0.23		0.6	208/1	X			DIV 23												
FCU-B1-1	FAN COIL UNIT	B120	B120	AP-M-B2	0.16		0.6	208/1	X			DIV 23												
FCU-B1-2	FAN COIL UNIT	B118	B118	AP-M-B2	0.23		0.6	208/1	X			DIV 23												
FCU-B1-3	FAN COIL UNIT	B118	B118	AP-M-B2	0.23		0.6	208/1	X			DIV 23												
FCU-1-1	FAN COIL UNIT	CH-100	CH-100	AP-M-B2	0.16		0.6	208/1	X			DIV 23												
FCU-1-2	FAN COIL UNIT	CH-1S1	CH-1S1	AP-M-B2	0.04		0.3	208/1	X			DIV 23												
FCU-1-3	FAN COIL UNIT	CH-1S1	CH-1S1	AP-M-B2	0.04		0.3	208/1	X			DIV 23												
FCU-1-4	FAN COIL UNIT	CH-102A	CH-102A	AP-M-B2	0.22		0.6	208/1	X			DIV 23												
FCU-1-5	FAN COIL UNIT	CH-102B	CH-102B	AP-M-B2	0.22		0.6	208/1	X			DIV 23												
FCU-1-6	FAN COIL UNIT	CH-104B	CH-104B, CH-106B	AP-M-B2	0.24		0.6	208/1	X			DIV 23												
FCU-1-7	FAN COIL UNIT	CH-103A	CH-101	AP-M-B2	0.09		0.6	208/1	X			DIV 23												
FCU-2-1	FAN COIL UNIT	ATTIC SOUTH	CH-2S1, CH-3S1	AP-M-B2	0.32		0.6	208/1	X			DIV 23												
FCU-2M-1	FAN COIL UNIT	ATTIC SOUTH	CH-300	AP-M-B2	0.24		0.6	208/1	X			DIV 23												
FCU-3-1	FAN COIL UNIT	CH-301	CH-301	AP-M-B2	0.08		0.6	208/1	X			DIV 23												
FCU-3-2	FAN COIL UNIT	CH-302	CH-302	AP-M-B2	0.16		0.6	208/1	X			DIV 23												
FZP-2A	CHW FREEZE PROTECTION PUMP	AHU-2 SERVICE VESTIBULE	AHU-2 SYSTEM	DP-M-1	1.5	3		460/3																
FZP-2B	HW FREEZE PROTECTION PUMP	AHU-2 SERVICE VESTIBULE	AHU-2 SYSTEM	AP-M-B2	0.5	4		120/1																
FZP-3	HW FREEZE PROTECTION PUMP	ATTIC NORTH	AHU-3 SYSTEM	AP-M-B2	0.5	4		120/1																
GFT-1	GLYCOL FILL STATION	BASEMENT MER	EMERGENCY CHILLED WATER SYSTEM	DP-OS	3/4	2		460/3	X															EMERGENCY POWER
HUM-1-1	HUMIDIFIER	BASEMENT MER	AHU-1 SYSTEM	DP-OS			56.1	460/3		X		DIV 23												EMERGENCY POWER
HUM-2-1	HUMIDIFIER	BASEMENT MER	VAV 2-2	DP-M-1			3.7	460/1		X		DIV 23												
HUM-2-2	HUMIDIFIER	TUNNEL	VAV 2-5	DP-M-1			7.5	460/3		X		DIV 23												
HUM-2-3	HUMIDIFIER	TUNNEL	VAV 2-17	DP-M-1			7.5	460/3		X		DIV 23												
OAU-1	OUTSIDE AIR UNIT	NORTH SERVICE YARD	AHU-1 SYSTEM	DP-OS		9.5		460/3	X			DIV 23												EMERGENCY POWER
P-1	CHILLED WATER PUMP	BASEMENT MER	CHILLED WATER SYSTEM	DP-OS	7.5	11		460/3						X									DIV 23	EMERGENCY POWER
P-2	CHILLED WATER PUMP	BASEMENT MER	CHILLED WATER SYSTEM	DP-OS	7.5	11		460/3						X									DIV 23	EMERGENCY POWER
P-3	HOT WATER PUMP	BASEMENT MER	HOT WATER SYSTEM	DP-OS	5	8		460/3						X									DIV 23	EMERGENCY POWER
P-4	HOT WATER PUMP	BASEMENT MER	HOT WATER SYSTEM	DP-OS	5	8		460/3						X									DIV 23	EMERGENCY POWER
SP-1	SUMP PUMP	ELEVATOR PIT	ELEVATOR	AP-OS-B1	3/10		1.2	120/1																EMERGENCY POWER
SP-2	DUPLEX SUMP PUMP	MECH SERVICE																						
RF-1	RETURN FAN (AHU-1)	BASEMENT MER	AHU-1 SYSTEM	DP-OS	7.5	11		460/3						X									DIV 23	EMERGENCY POWER
RF-3A	RETURN FAN (AHU-3)	CH-302	AHU-3 SYSTEM	DP-M-2	7.5	11		460/3						X									DIV 23	
RF-3B	RETURN FAN (AHU-3)	CH-301	AHU-3 SYSTEM	DP-M-2	7.5	11		460/3						X									DIV 23	
UH-B2-1	UNIT HEATER	BASEMENT MER	BASEMENT MER	AP-M-B2			16W	120/1	X			DIV 23												
UH-B1-1	UNIT HEATER	AHU-2 SERVICE VESTIBULE	AHU-2 SERVICE VESTIBULE	AP-M-B2			16W	120/1	X			DIV 23												
VAV-X-X	VARIABLE AIR VOLUME CONTROL BOX	REFER TO DRAWINGS	REFER TO DRAWINGS				0.1	120/1																
VF-B3-1	VENTILATION FAN	TUNNEL (NORTH)	TUNNEL (NORTH)	AP-M-B2	0.5	4		120/1	X			DIV 23												
VF-B3-2	VENTILATION FAN	TUNNEL (SOUTH)	TUNNEL (SOUTH)	AP-M-B2	0.5	4		120/1	X			DIV 23												

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ISSUE DATE:
2/11/2021

SOLICITATION NO.:
W912DS-19-R-0014

CONTRACT NO.:
W912DS-19-C0031

PROJECT NO.:
2019494

DESIGNED BY:
CR

DRAWN BY:
MJP

CHECKED BY:

SUBMITTED BY:
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US ARMY CORPS OF ENGINEERS

JACOBS / EWING
COLE

WEST POINT, NY

USMA BUILDING 605 CULLUM HALL RENOVATION

HVAC, PLUMBING, AND ELECTRICAL
COORDINATION SCHEDULE

SHEET ID

HPE-801

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AMENDMENT 7

MARK

DESCRIPTION

5/21/2021

DATE



US Army Corps
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5/21/2021
DATE

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AMENDMENT 7
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2/11/2021

DESIGNED BY:
CR

DRAWN BY:
JACOBSON

CHECKED BY:
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SUBMITTED BY:
JACOBSON

PROJECT NO:
20190494

CONTRACT NO:
W017DS-19-C031

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W017DS-19-C031

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W017DS-19-C031

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