

To: Prospective Bidders

From:
WBRC ARCHITECTS ENGINEERS
44 Central Street
Bangor, ME 04401-5116
(207) 947-4511
www.wbrcae.com

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated August 13, 2021, as noted below. Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of the following:

- Clarifications
- Specification Changes
- Drawing Changes

CLARIFICATIONS:

1. See attached sign-in sheet completed at the non-mandatory pre-bid meeting on September 14, 2021.
2. Question: The scale appears to be off on the roof plan. Can you verify and possibly provide me the most current set of drawings? There are very few dimensions on the roof plan.

Answer: . The entire "Issued for Bid" drawing set is being reissued. See Drawing Changes in this Addendum.

3. Question: You have noted, perimeter flashing on the canopy is to remain. This will get destroyed during the existing roof assembly removal process, as it is part of the existing roof assembly and will not be easily cleaned and/or salvaged.

Answer: The design intent is to protect and retain existing fascia. See revised note on detail A8/AE501, included in reissued drawing set.

4. Question: For clarification, you are requesting asphalt primer be installed over concrete deck, and the first layer of ISO to be installed in hot asphalt. Correct?

Answer: No. The design intent is to use bead-applied, low-rise, one-component or multicomponent urethane adhesive for installation over concrete roof deck and between insulation layers as recommended by the roofing manufacturer. See Specification changes for Section 07 53 32, EPDM Roofing in this Addendum.

5. Question: Can 4x8 sheets of ISO be used after the initial layer of (4x4) Insulation is installed in the Asphalt provided it meets the manufacturers 30 year specifications?

Answer: Yes.

6. Can you elaborate on the specification for the (2) permanent tie-off anchors, if more than described under part 3, Project Execution, 3.2.10?

Answer: There are no tie-off anchors required for this project .

7. Also, I do not see the anchor locations identified on the roof plan. At the Ladder tie-off location is described. If just 3/8" eyebolt lags into the perimeter wood blocking, do you have a detail on securement and flashing expectations?

Answer: There are no ladder tie-off anchors required.

8. With regards to sheet metal, we generally deal with aluminum starting at .032 thickness and steel starting at 24 ga. We also work with copper, 16 and 20 oz., freedom grey, galvalume, lead coated copper and stainless. Your spec. of Aluminum-Zinc Alloy-coated steel has been difficult to acquire for pricing. The thickness also ranges between .022 and .034. Would an alternative be considered in one thickness?

Answer: Alternatives will be considered one month prior to start of construction. Successful bidder may submit substitution request for product equivalent to .034 Aluminum-Zinc Alloy-coated steel in strength, durability, and finish.

SPECIFICATION CHANGES:

9. Section 01 10 00, Summary, Par. 1.5.A, Revise Project Schedule as follows:

1.	First bid advertisement.....	09/04/21
2.	Second bid advertisement	09/11/21
3.	Pre-bid job walk (non-mandatory), 9:00 am, at project site	09/14/21
4.	Final date for bidding questions, 2:00 pm	09/16/21
5.	Open bids (virtual online meeting), 2:00 pm	09/21/21
6.	Begin construction	06/13/22
7.	End construction Phase 1 (interior piping warehouse)	07/22/22
8.	Begin construction Phase 2 (interior piping offices).....	07/25/22
9.	End construction (Phase 1 and Phase 2).....	08/19/22
10.	Punch list generated	08/26/22
11.	Substantial Completion.....	09/09/22
12.	Final Completion	09/30/22

10. Section 07 53 32, EPDM Roofing, DELETE Paragraphs 2.5.B.2, 3.4.C.1.f.1), 3.4.C.1.f.2), and 3.4.C.1.f.4).

DRAWINGS CHANGES:

11. REPLACE "ISSUED FOR BID DRAWINGS" with the attached. The entire "Issued for Bid" drawing set is being reissued due to a printing error in original "Issued for Bid" drawings. Reissued drawings are indicated with "Addendum 04 - 09.16.2021" in the title block. No changes to the content of drawings have been made with the exception of:

Sheets AE102, AE103, AE501, revisions shown clouded.

END OF ADDENDUM

PRE-BID MEETING SIGN-IN SHEET

Project: MeANG Building B493 Re-Roof

WBRC Project Number: 10030.001

Meeting Date: Tuesday, September 14, 2021, 9:00 am

Meeting Location: Project Site

ATTENDEE	Company Name	Telephone	Email
MARK SMITH	Roof Systems of MAINE	207-557-0710	MSMITH@TECTAAMERICA.COM
BRAD HAASE	HAHNEL BROS CO	207-440-2809	BHAASE@HAHNELBROSCO.COM
Glen Tompkins	101 ST CES	207 907-0737	GLEN.TOMPKINS@BUS.AE.MIL
STEVE PEDERSEN	WBRC	207 947 4511	steve.pedersen@wbrc-ae.com

MeANG BUILDING B493 RE-ROOF

MAINE AIR NATIONAL GUARD,
BUILDING B493
101 GLEN AVE., BANGOR ANGB
BANGOR MAINE 04401

INDEX

GENERAL DRAWING	
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CIVIL DRAWINGS	
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GI003	PHOTOS
ARCHITECTURAL DRAWINGS	
AE101	FIRST FLOOR PLAN
AE102	REFLECTED CEILING PLAN
AE103	ROOF PLAN
AE501	DETAILS
PLUMBING DRAWINGS	
PL001	PLUMBING LEGEND
PL101	FIRST FLOOR PLUMBING PLAN
PL102	ROOF PLUMBING PLAN

Signature

Date

Owner:

Architect:

Contractor:

1	ADDENDUM 04	09.16.2021
0	ISSUED FOR BID	08.13.2021
REV.	DESCRIPTION	DATE

SEAL OF ARCHITECT
STEPHEN E. PEDERSEN
NO. 3166
STATE OF MAINE
08.13.2021

SEAL OF ENGINEER
ANDREW RUSWICK
NO. 10300
STATE OF MAINE
08.13.2021

SEAL OF ENGINEER
JOHN S. KENNEY
No. 11676
STATE OF MAINE
PROFESSIONAL ENGINEER

SHEET No.

GI001

COMM No.

10030.001

WBRC

ARCHITECTS

ENGINEERS

BANGOR, MAINE
(207) 947-4511
PORTLAND, MAINE
(207) 828-4511
SARASOTA, FLORIDA
(941) 556-0757
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L1 EXISTING BASE FLASHING



L5 EXISTING SCUPPER



L10 FLASHING TRANSITION



L14 INTERIOR



F1 INTERIOR AT DEMISING WALL



F5 INTERIOR DETAIL



F10 LOW CANOPY (BACKGROUND) ENTRY CANOPY
N.I.C (FOREGROUND)
1" = 30'-0"



F14 LOWER CANOPY ROOF



A1 MAIN ROOF



A5 MAIN ROOF SHOWING PONDING



A10 EAST ELEVATION



A14 ROOF PENETRATION

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SEAL

STEPHEN E. PEDERSEN
NO. 3166
STATE OF MAINE

09.04.2021

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MeANG BUILDING
B493 RE-ROOF

PROJECT

PHOTOS

SHEET TITLE

WBRC CAD FILE: MeANG B493 ROOF.RVT

PROJECT No: 10030.001

SCALE: 1" = 30'-0"

PROJECT MANAGER: SEP

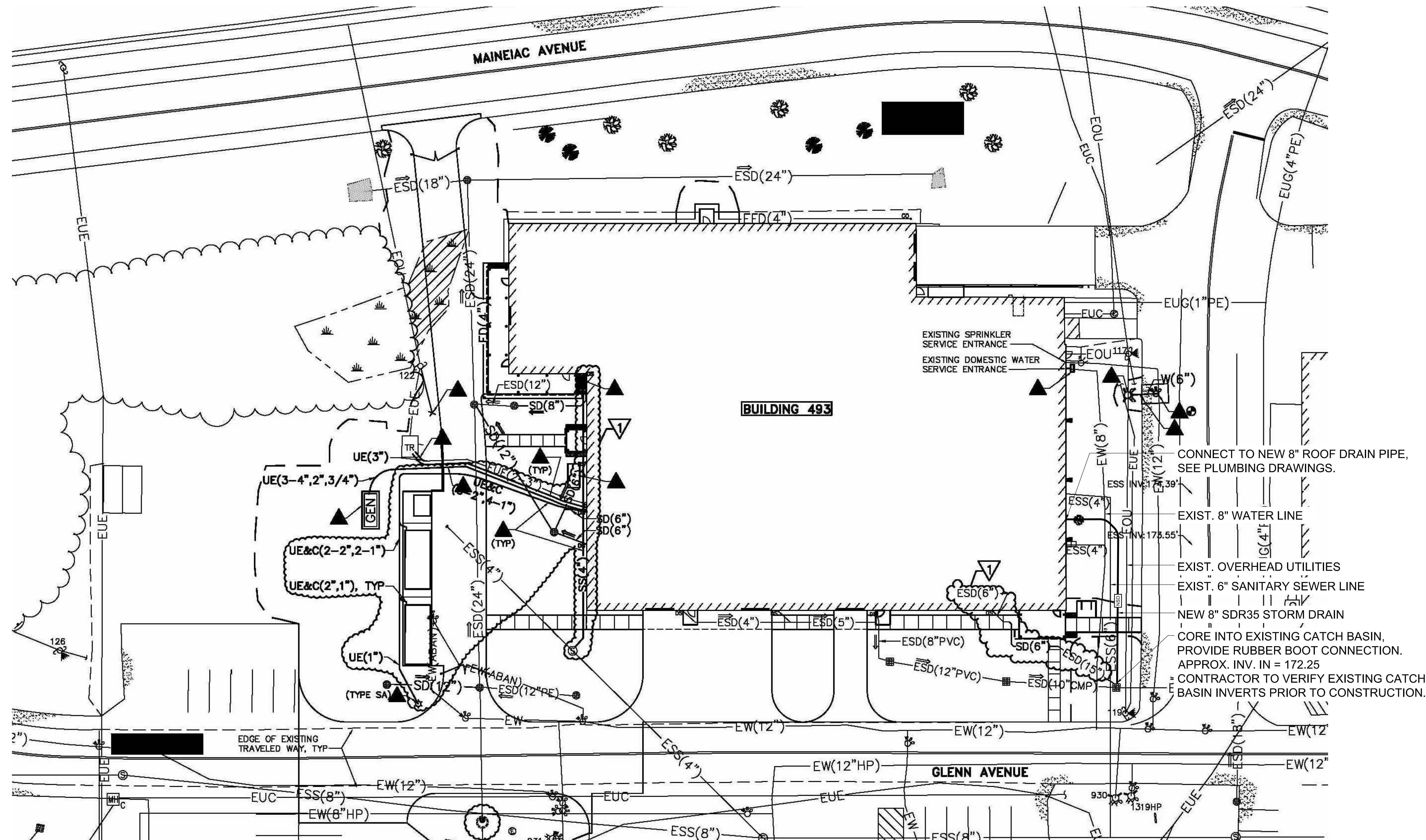
DRAWN BY: RCC

CHECKED BY: SEP

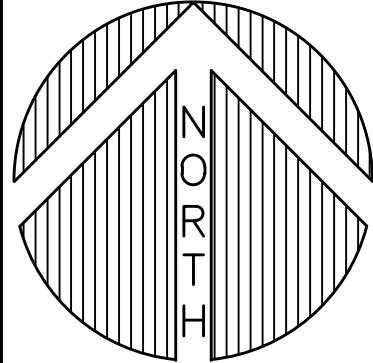



SHEET No

GI003

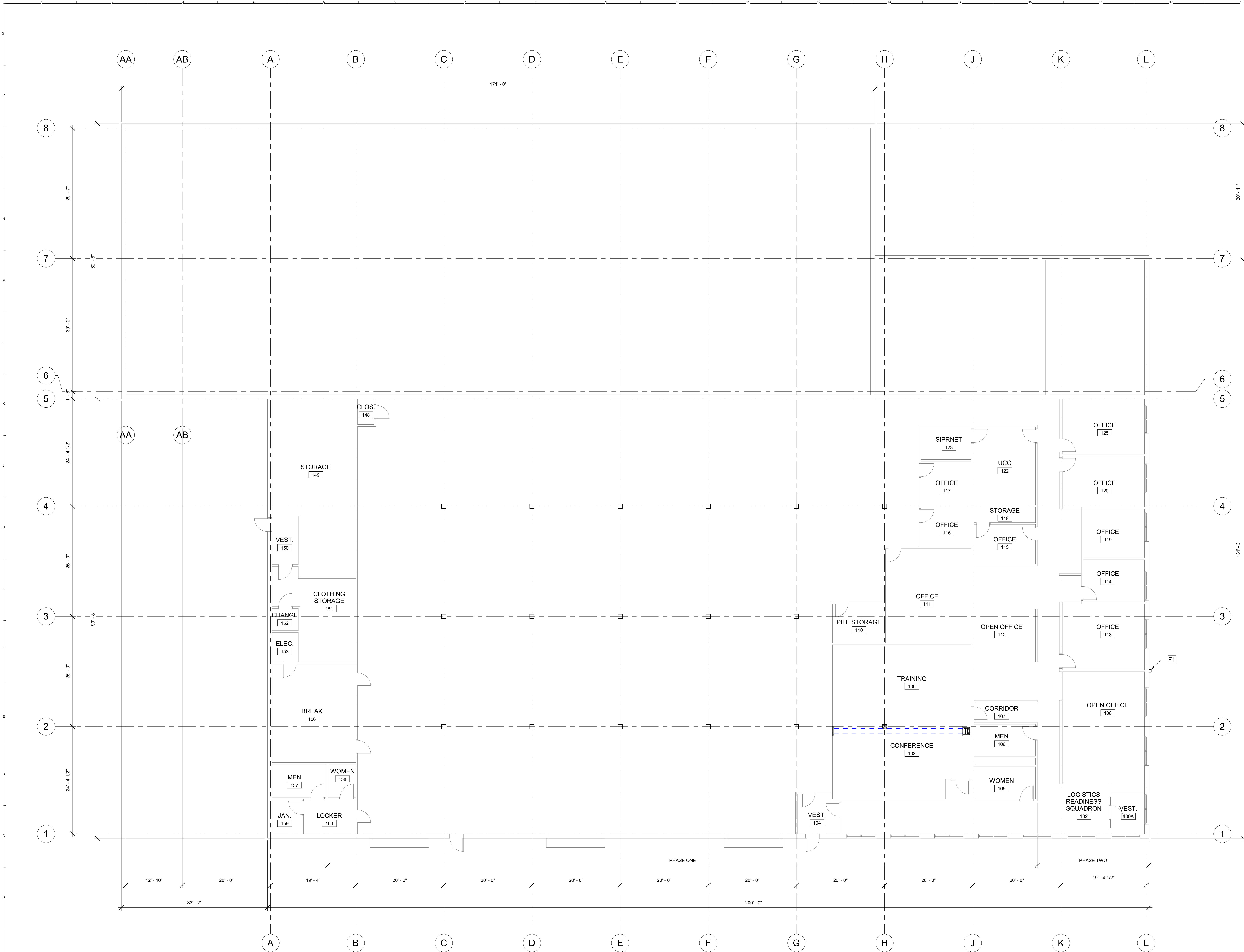
1. SITE CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES PRIOR TO BEGINNING ANY PROPOSED WORK.



EXISTING		PROPOSED
	LIMITS OF WETLAND	
	UTILITY POLE	
	STREET LIGHTING	
	BUILDING LIGHTING	
	WATER SHUTOFF / GATE VALVE	
	TRANSFORMER PAD	
	DUMPSTER	
	MANHOLE	
	SEWER MANHOLE	
	CATCH BASIN	
	FIRE HYDRANT	
	SIGN	
	FENCING	
	P.T. GUARD RAIL	
	PAVEMENT	
	SIDEWALK	
	GAS SERVICE / MAIN	
	WATER SERVICE / MAIN	
	STORM DRAIN	
	UNDERDRAIN	
	FOOTING DRAIN	
	CLEANOUT	
	SANITARY SEWER	
	UNDERGROUND ELECTRIC	
	UNDERGROUND PRIMARY	
	AERIAL ELEC. / PRIMARY	
	COMMUNICATIONS	
	PROPERTY SETBACK	
	PROPERTY LINE	
	ABUTTING PROPERTY LINE	
	TREE LINE	

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<p>WBRC ARCHITECTS • ENGINEERS WWW.WBRCCAL.COM BANGOR, MAINE 207-947-4381 PORTLAND, MAINE 207-628-4551 SAKASHITA, FLORIDA 941-379-1380</p>			
<p>MeANG B493 ROOF</p>			
<p>PROJECT: 101 Glen Ave, Bangor ANGB, Bangor, Maine</p>			
<p>UTILITY PLAN</p>			
<p>SHEET TITLE:</p>		<p>10030001-SP101.DWG</p>	
<p>WBRC CAD FILE:</p>		<p>GRAPHIC SCALE:</p>	
<p>PROJECT NO. 10030.001</p>		<p>0" 1"</p>	
<p>SCALE: 1"=20'</p>		<p>SHEET NO.:</p>	
<p>PROJECT MANAGER: SEP</p>		<p>CU101</p>	
<p>DRAWN BY: KRB</p>		<p>©Copyright 2021 WBRC</p>	
<p>CHECKED BY: JSK</p>			

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GENERAL NOTES:

- REFER TO G1002 SHEET FOR ALL ABBREVIATIONS AND SYMBOLS.
- ALL DRAWINGS ARE OF EQUAL IMPORTANCE IN DEFINING THE WORK OF THE CONTRACT DOCUMENTS. CONTRACTORS SHALL REVIEW ALL DRAWINGS BEFORE THE INSTALLATION OF THEIR WORK. SHOULD THERE BE A DISCREPANCY WITHIN AND BETWEEN THE DRAWINGS THAT WOULD CAUSE AN AWKWARD OR IMPROPER INSTALLATION NOTIFY ARCHITECT FOR CLARIFICATION PRIOR TO INSTALLATION OF SAID WORK. ANY WORK INSTALLED IN CONFLICT WITH THE ARCHITECTURAL DRAWINGS SHALL BE CORRECTED BY CONTRACTOR AT ITS EXPENSE AND AT NO ADDITIONAL COST TO OWNER OR ARCHITECT.
- DO NOT SCALE DRAWINGS. THE DRAWINGS ARE NOT NECESSARILY TO SCALE. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE PRIOR TO THE START OF CONSTRUCTION. IF DISCREPANCIES ARE FOUND, NOTIFY ARCHITECT FOR CLARIFICATION BEFORE COMMENCING THE WORK.
- REFER TO SHEET G1002 FOR ABBREVIATIONS AND SYMBOLS.
- REFER TO ALL DRAWINGS INCLUDING ARCHITECTURAL AND PLUMBING FOR ADDITIONAL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS.
- PATCH AND REPAIR ALL AREAS AFFECTED BY RESTORATION WORK TO MATCH EXISTING.
- SEAL ALL PENETRATIONS IN EXISTING CONSTRUCTION WITH APPROVED SEALANT.

KEYNOTES:

F1 8" RAINWATER PIPE ATTACHED TO BUILDING EXTERIOR

1	ADDENDUM 04	09.16.2021
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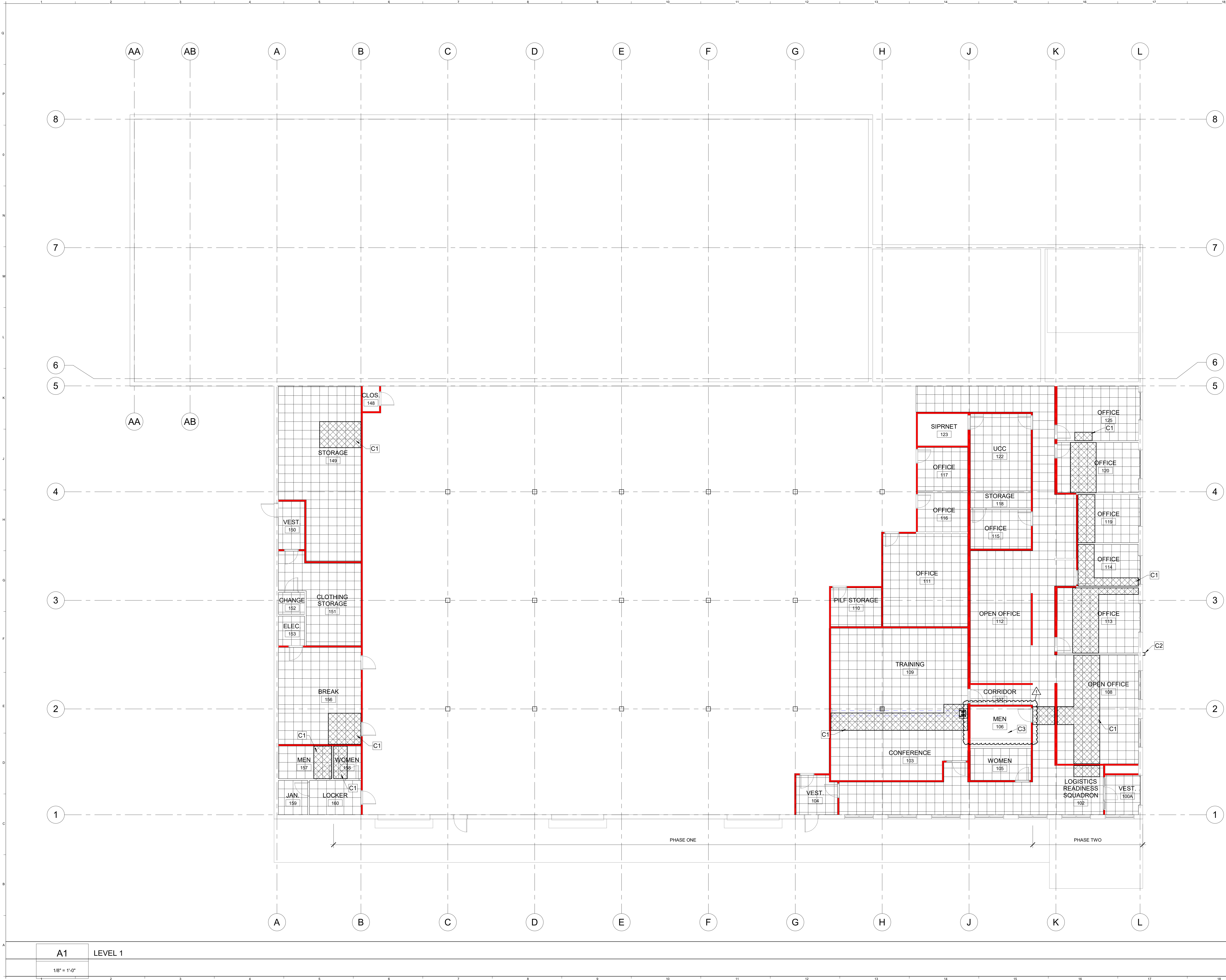
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**MeANG BUILDING
B493 RE-ROOF**

PROJECT:
FIRST FLOOR PLAN

SHEET TITLE: WBRC CAD FILE: MeANG B493 ROOF.RVT	
PROJECT No: 10030.001	GRAPHIC SCALE: 0' 1'
SCALE: As indicated	
PROJECT MANAGER: SEP	SHEET No: AE101
DRAWN BY: RCC	
CHECKED BY: CHK	

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GENERAL CEILING PLAN NOTES:

- REFER TO SHEET G1002 FOR ALL ABBREVIATIONS
- SEE SHEET AE101 FOR GENERAL CONSTRUCTION NOTES.
- ALL EXISTING SUSPENDED CEILING AREAS REQUIRING TEMPORARY REMOVAL FOR PIPE INSTALLATION, WHETHER OR NOT SPECIFICALLY SHOWN ON PLAN.

KEYNOTES:

C1	APPROXIMATE AREAS OF EXISTING SUSPENDED CEILING BELOW NEW PIPING SHOWN CROSS-HATCHED.
C2	PIPING PENETRATION ABOVE CEILING THROUGH EXISTING WALL SEE DETAIL J15/AE501
C3	FEED ROOF DRAIN PIPING ABOVE SOLID GWB CEILING BY PENETRATING FULL-HEIGHT WALLS ON EITHER SIDE OF MEN'S ROOM TO AVOID DISTURBING CEILING

LEGEND:

EXISTING SUSPENDED CEILING TO REMAIN

SUSPENDED CEILING TO BE REPLACED

EXISTING INTERIOR PARTITION WALL EXTENDING TO ROOF DECK

EXISTING INTERIOR PARTITION WALL EXTENDING TO CEILING

REV.	DESCRIPTION	DATE
1	ADDENDUM 04	09.16.2021
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**MeANG BUILDING
B493 RE-ROOF**

PROJECT:
REFLECTED CEILING PLAN

SHEET TITLE:
WBRC CAD FILE: **MeANG B493 ROOF.RVT**

PROJECT No: **10030.001** GRAPHIC SCALE:

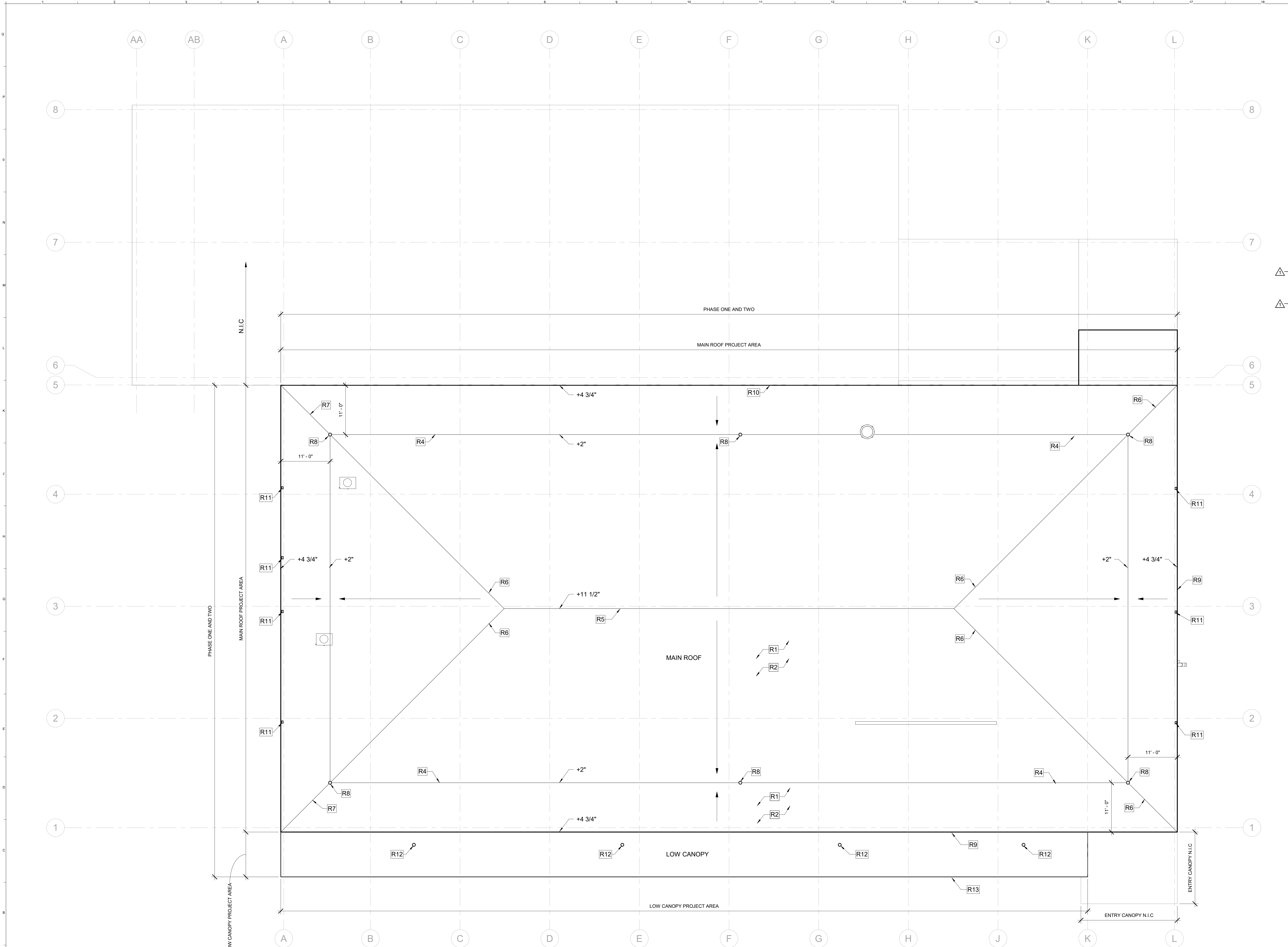
SCALE: **As indicated**

PROJECT MANAGER: **SEP** SHEET No: **AE102**

DRAWN BY: **RCC**

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- GENERAL ROOF PLAN NOTES :**
- A. SEE SHEET AE101 FOR GENERAL CONSTRUCTION NOTES.
 - B. EXISTING CONCRETE ROOF DECK IS NOT DEAD LEVEL BUT SHOWING SIGNIFICANT AREAS OF PONDING DUE TO INHERENT IRREGULARITY IN THE CONCRETE ROOF SUBSTRATE. NEW BUILT-UP ROOF ASSEMBLY WILL REQUIRE SHIMMING TO ACHIEVE UNIFORM FINISH SLOPES SHOWN ON PLAN.
 - C. TEMPORARILY REMOVE, REINSTALL, AND FULLY FLASH ALL ROOF PENETRATIONS. SEE PLUMBING PLANS FOR MORE INFORMATION.

- ROOF PLAN KEYNOTES :**
- R1 REMOVE EXISTING GRAVEL BALLASTED MEMBRANE AND RIGID INSULATION DOWN TO EXISTING CONCRETE DECK
 - R2 NEW EPDM ROOF MEMBRANE OVER TAPERED RIGID INSULATION
 - R4 DEAD FLAT VALLEY WITH 2" RIGID INSULATION
 - R5 LEVEL RIDGE
 - R6 SLOPING HIP
 - R7 DRAINAGE SLOPE 1/4" PER FOOT, TYPICAL
 - R8 NEW ROOF DRAIN. SEE DETAIL E15/AE501
 - R9 NEW PERIMETER FLASHING. SEE DETAIL A8/AE501
 - R10 NEW BASE FLASHING. SEE DETAIL A15/AE501
 - R11 EXISTING DRAINAGE SCUPPER TO REMAIN FOR OVERFLOW. PATCH INTO NEW ROOFING AS REQUIRED.
 - R12 EXISTING ROOF DRAIN AT LOW CANOPY TO REMAIN
 - R13 EXISTING PERIMETER FLASHING AT LOW CANOPY TO REMAIN

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REV.	DESCRIPTION	DATE



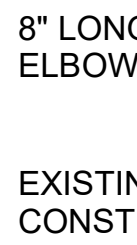
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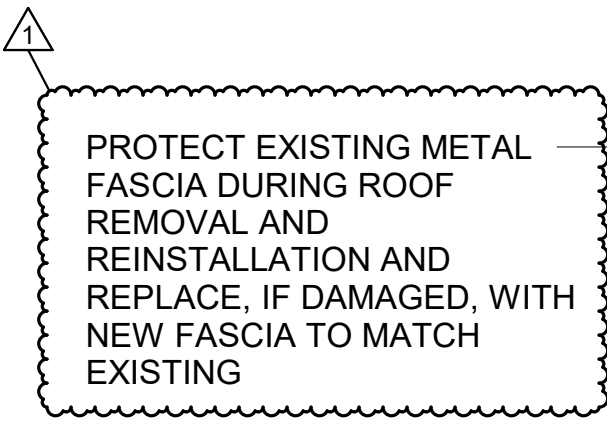
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**MeANG BUILDING
B493 RE-ROOF**

PROJECT: **ROOF PLAN**

SHEET TITLE:
WBRC CAD FILE: **MeANG B493 ROOF.RVT**
PROJECT No: **10030.001** GRAPHIC SCALE: **1"**
SCALE: **1/8" = 1'-0"**
PROJECT MANAGER: **SEP** SHEET No: **AE103**
DRAWN BY: **RCC**
CHECKED BY: **SEP**


$$3/4" = 1'-0"$$

$$1\frac{1}{2}'' = 1'-0''$$

$$1\frac{1}{2}'' = 1'-0''$$

$$1\frac{1}{2}'' = 1'-0''$$

1	ADDENDUM 04	09.16.2021
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REV.	DESCRIPTION	DATE


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MeANG BUILDING
B493 RE-ROOF

DETAILS

WBRG CAD FILE: MeANG B493 ROOF.RVT

SCALE:	As indicated	0	1	A
PROJECT MANAGER:	SEP	SHEET No.		

DRAWN BY:	RCC	
CHECKED BY:	SEP	

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PLUMBING ABBREVIATIONS			
ABV.	DESCRIPTION	ABV.	DESCRIPTION
ADA	AMERICANS WITH DISABILITIES ACT	INV.EL.	PIPE INVERT ELEVATION
A.F.F	ABOVE FINISH FLOOR	IW	INDIRECT WASTE
CA-1	COMPRESSED AIR CONNECTION	KW	KILOWATT
CFM	CUBIC FEET PER MINUTE	LAV	LAVATORY
CH-1	REMOBILE CHILLER (ELLC. WATER COOLER)	LBS	POUNDS
CPA	COMPRESSED AIR EQUIPMENT	MR	MOP RECEPTOR
DIA.	DIAMETER	MV	MIXING VALVE
DN	DOWN	N/A	NOT APPLICABLE
DU	DISTRIBUTION UNIT	NG	NATURAL GAS
DW	DISHWASHER	PPM	PARTS PER MILLION
DWV	DRAINAGE, WASTE, & VENT	PRV	PRESSURE REDUCING VALVE
EE	EMERGENCY EQUIPMENT	PSI	POUNDS PER SQUARE INCH
EW	ELECTRIC WATER COOLER	PTX	PLUMBING THERMAL EXPANSION TANK
EW	ELECTRIC WATER HEATER	SG	SPECIALTY GAS
FD	FLOOR DRAIN	SH	SHOWER
FT	FEET	SK	SINK
GAL.	GALLONS	SP	SUMP PUMP
GPH	GALLONS PER HOUR	TP	TRAP PRIMER
GPM	GALLONS PER MINUTE	T&P	TEMPERATURE & PRESSURE RELIEF VALVE
GWH	GAS WATER HEATER	TYP.	TYPICAL
HP	HORSE POWER	UR	URINAL
HWR	HOT WATER RECIRCULATION	WB	WALL BOX
HWT	HOT WATER TANK	WC	WATER CLOSET
IN	INCHES	WH	WALL HYDRANT
R	EXISTING TO BE REMOVED	RR	EXISTING TO BE RELOCATED
ER	EXISTING RELOCATED		

PLUMBING SYMBOLS & ABBREVIATIONS				
SYMBOL	ABV.	DESCRIPTION	EXISTING TO REMAIN	EXISTING TO BE REMOVED
	HW	HOT WATER PIPING		
	TW	TEPID HOT WATER PIPING (TEMP IN °F)		
	HWR	HOT WATER RETURN PIPING		
	CW	COLD WATER PIPING		
	CO2	CARBON DIOXIDE PIPING		
	VAC	VACUUM PIPING		
	CA	COMPRESSED AIR PIPING		
	W	SANITARY WASTE PIPING		
	W	SANITARY WASTE PIPING BELOW SLAB		
	V	VENT PIPING		
	CD	CONDENSATE PIPING		
	G	NATURAL GAS PIPING		
	RW	RAINWATER PIPING		
	RW	RAINWATER PIPING BELOW SLAB		
		PIPE TURNING UP		
		PIPE TURNING DOWN		
	FCO	FLOOR CLEANOUT		
	CO	WALL OR END OF LINE CLEANOUT		
	E-1	EQUIPMENT FIXTURE NUMBER - REFER TO PLUMBING FIXTURE SCHEDULE		
	P-5	PLUMBING FIXTURE NUMBER - REFER TO EQUIPMENT FIXTURE SCHEDULE		
	FD	FLOOR DRAIN		
	RD	ROOF DRAIN		
		SHUT-OFF VALVE		
		BALANCING VALVE		
		CHECK VALVE		
	B.I.P.	BLACK IRON PIPE		
		PLUMBING FIXTURE CONNECTION		
	VTR	VENT THRU ROOF		
	V.I.F.	VERIFY IN FIELD		
		BACKFLOW PREVENTER		
	DWH	DOMESTIC WATER HEATER		
	1	TECHNICAL NOTE. PERTAINS ONLY TO THE SHEET ON WHICH IT APPEARS.		
	TP	TRAP PRIMER		
	DU	TRAP PRIMER DISTRIBUTION UNIT		
	WHA	WATER HAMMER ARRESTOR		
		NEW TO EXISTING CONNECTION		
	NP	NON-POTABLE		
	RODI	REVERSE OSMOSIS DEIONIZED WATER		
	NPCW	NON-POTABLE COLD WATER		
	NPHW	NON-POTABLE HOT WATER		

1

ADDENDUM 04

09.16.2021

0

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REV.	DESCRIPTION	DATE

PROJECT NORTH

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PROJECT:

**MeANG BUILDING
B493 RE-ROOF**

SHEET TITLE:

PLUMBING LEGEND

WBRC CAD FILE: MeANG B493 ROOF.RVT

PROJECT No: 10030.001

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

PROJECT MANAGER: SEP

DRAWN BY: SRJ

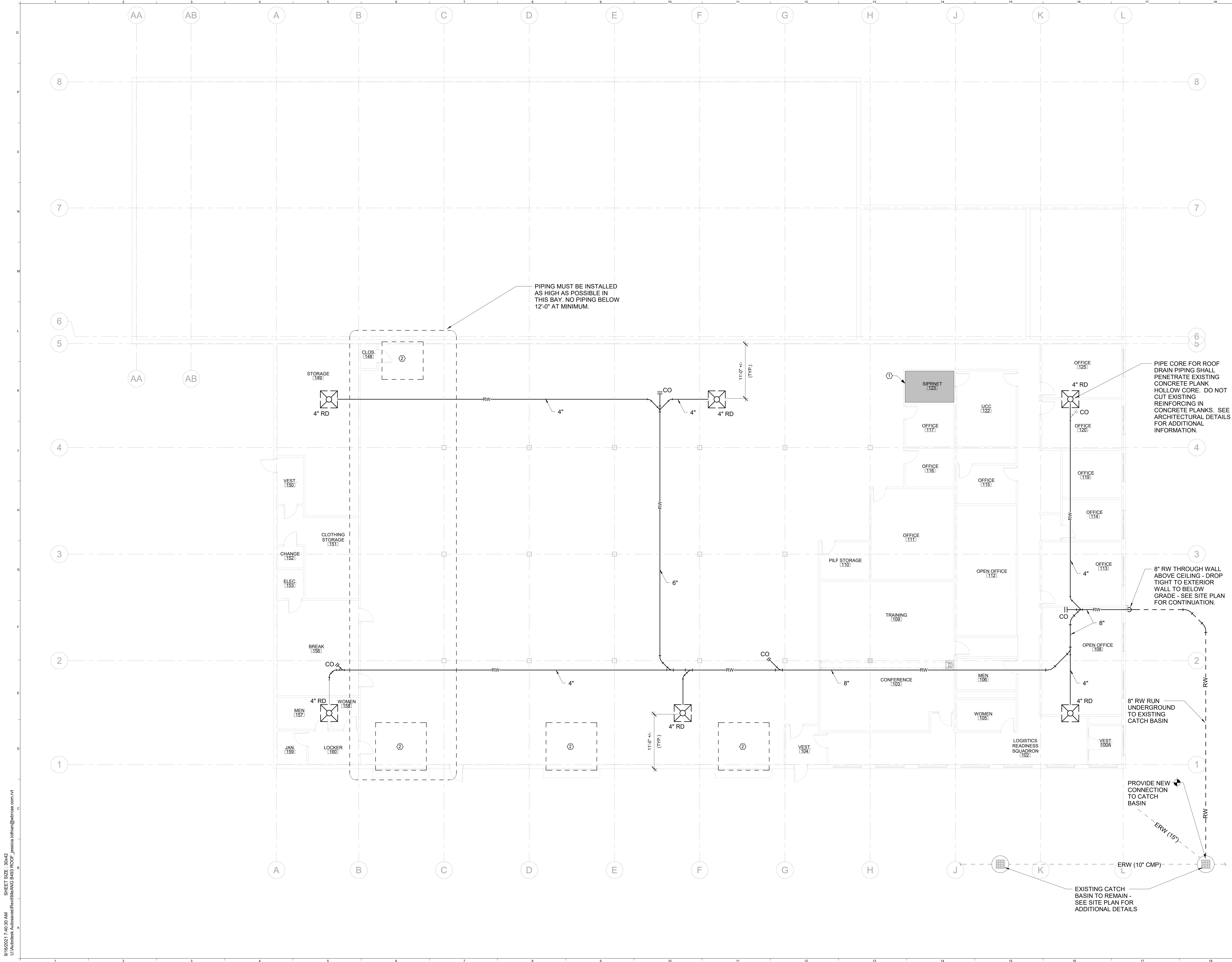
CHECKED BY: AJR

GRAPHIC SCALE:
0' 1'

SHEET No: **PL001**

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TECHNICAL NOTES:
① NO NEW PIPING PERMITTED THROUGH THIS SPACE.
② OVERHEAD DOOR - NO PIPING PERMITTED.

1	ADDENDUM 04	09.16.2021
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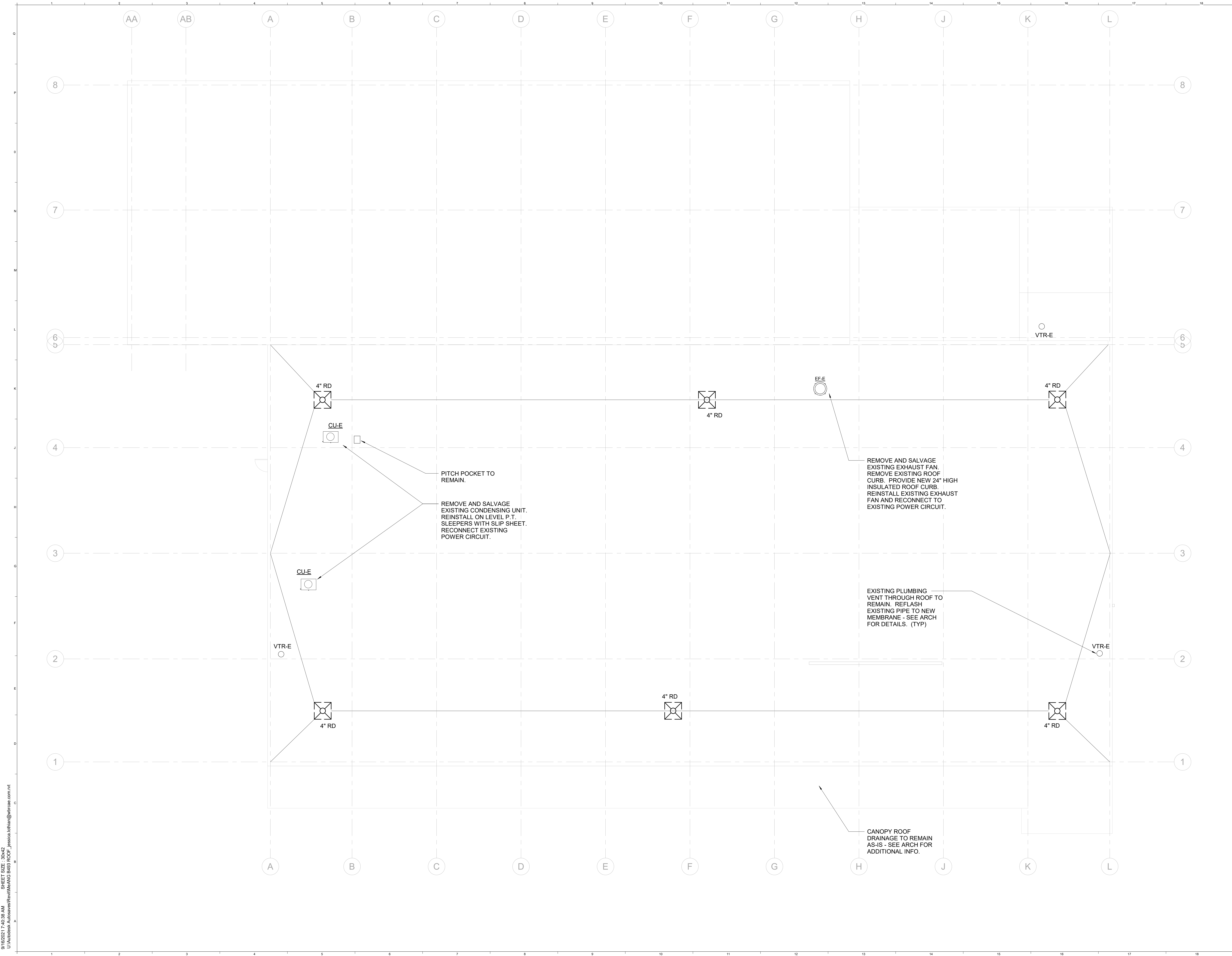
PROJECT NORTH

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**MeANG BUILDING
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PROJECT:
**FIRST FLOOR PLUMBING
PLAN**

SHEET TITLE	
WBRC CAD FILE: MeANG B493 ROOF.RVT	
PROJECT No: 10030.001	GRAPHIC SCALE: 0'
SCALE: 1/8" = 1'-0"	1"
PROJECT MANAGER: SEP	SHEET No: PL101
DRAWN BY: SRJ	
CHECKED BY: AJR	

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PROJECT NORTH

08/13/21

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**MeANG BUILDING
B493 RE-ROOF**

PROJECT:
ROOF PLUMBING PLAN

SHEET TITLE:
WBRC CAD FILE: **MeANG B493 ROOF.RVT**

PROJECT No: **10030.001** GRAPHIC SCALE: **0'** **1"**

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

PROJECT MANAGER: **SEP** SHEET No: **PL102**

DRAWN BY: **SRJ**

CHECKED BY: **AJR**