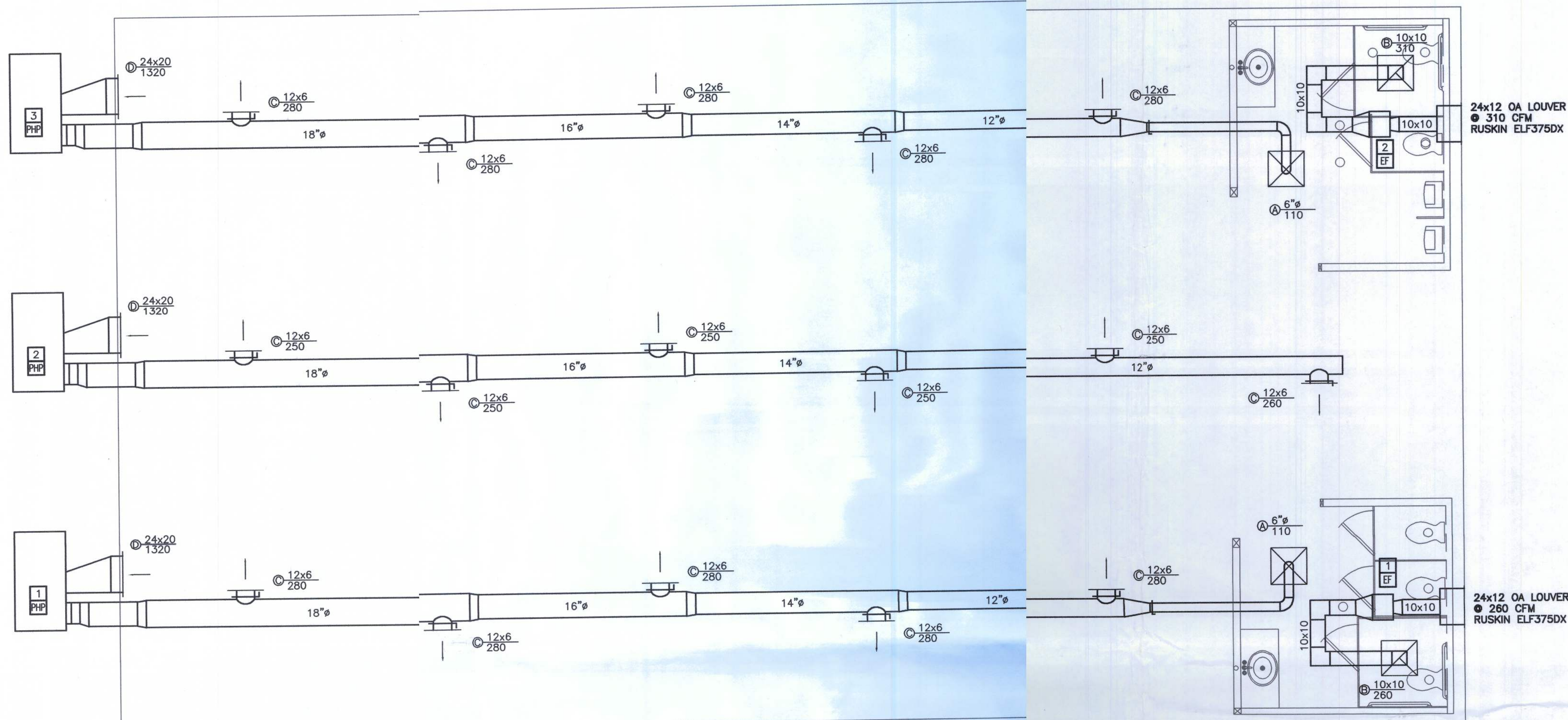




MECHANICAL PLAN
SCALE: 1/4" = 1'-0"

DESIGN CONDITIONS

EXTERIOR DESIGN CONDITIONS
SUMMER DRY/WET BULB 96F/77F
WINTER DRY BULB 29F

INTERIOR DESIGN CONDITIONS
SUMMER 75F +/-3 F/R.H.
WINTER 72F

UNITARY PACKAGED HEAT PUMPS

SUPPLY FAN DATA									COOLING COIL DATA					HEATING				PWR SUPPLY			MODEL
MARK	TYPE	SEER/ HSPF	S.A.	O.A.	E.S.P.	T.S.P.	HP.	VOLTAGE	UNIT E.A.T. DB/WB	UNIT L.A.T. DB/WB	TOTAL MBH	SENS MBH	COMP. KW	CAP. KW	FLA	MCA	MOCP	MFR.			
PHP-1	DRAW THRU	14.0/8.3	1510	190	0.5	—	3/4	230/1	80/67	—	46.0	35.4	—	10.0	46	53	60	GOODMAN	GPH1448H41A		
PHP-2	DRAW THRU	14.0/8.3	1510	190	0.5	—	3/4	230/1	80/67	—	46.0	35.4	—	10.0	46	53	60	GOODMAN	GPH1448H41A		
PHP-3	DRAW THRU	14.0/8.3	1510	190	0.5	—	3/4	230/1	80/67	—	46.0	35.4	—	10.0	46	53	60	GOODMAN	GPH1448H41A		
ALL PACKAGED HEAT PUMPS SHALL BE MOUNTED ON STEEL SERVICE PLATFORM TO MAINTAIN SERVICE CLEARANCE AND PROVIDE ACCESS FOR PROPER UNIT MAINTENANCE.																					

ALL PACKAGED HEAT PUMPS SHALL BE MOUNTED ON STEEL SERVICE PLATFORMS TO MAINTAIN SERVICE CLEARANCE AND PROVIDE ACCESS FOR PROPER UNIT MAINTENANCE.

DIFFUSER SCHEDULE

TYPE	SERVICE	CFM RANGE		SIZE	NECK	MANUFACTURER/MODEL
		MIN	MAX			
A	SUPPLY	0	150	24x24	6"	TITUS
B	EXHAUST	251	450	24x24	10x10	TITUS
C	SIDEWALL SUPPLY	151	300	12x6	12x6	TITUS
D	SIDEWALL RETURN	551	910	24x14	24x14	TITUS

NOTES:
1 SEE DETAIL(S) FOR ADDITIONAL INFORMATION
2 DIFFUSER RUNOUT SIZE SHALL BE DIFFUSER NECK SIZE, UNLESS OTHERWISE NOTED ON PLANS
3 PROVIDE SURFACE MOUNT HARDWARE IN ALL INACCESSIBLE PLUMBING SYSTEMS
4 PROVIDE LAY-IN MOUNT HARDWARE IN ALL SUSPENDED CEILING SYSTEMS
5 COORDINATE FINISH WITH INTERIORS
6 REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR LOCATIONS OF DIFFUSERS
7 PROVIDE SELECTION BASED ON A MAXIMUM RADIATED NOISE LEVEL OF NC-30

FAN SCHEDULE

MARK	TYPE	CFM	STATIC PRESS.	RPM	ELECTRICAL	M. H. P.	REMARKS
EF-1	IN-LINE	260	.33	995	115/1/60	.062	LOREN COOK GN-520
EF-2	IN-LINE	320	.33	1135	115/1/60	.062	LOREN COOK GN-520

PROVIDE THE FOLLOWING OPTIONS:
STANDARD DS
BDD
INTERLOCK WITH SWITCH

MECHANICAL NOTES:

- DUCT SIZES ARE FREE AREA. NO DUCTWORK SHALL RUN PARALLEL OVER WALLS.
- VERIFY ALL NECK SIZES ON ALL AIR TERMINALS AND EQUIPMENT. TRANSITION DUCTWORK AS NECESSARY.
- SEE REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING OUTLETS.
- CONTRACTOR SHALL VERIFY CLEARANCE SPACE AVAILABLE, OFFSETS REQUIRED, STRUCTURAL OPENINGS AND WORK BY OTHER TRADES PRIOR TO FABRICATION OF DUCTWORK. SUBMIT SHOP DRAWINGS ON DUCTWORK LAYOUT. COORDINATE WITH ROOF STRUCTURE.
- FLEX DUCT TO DIFFUSERS SHALL BE NO GREATER THAN 5'-0" IN LENGTH. (SEE DETAIL)
- ALL MAIN DUCTS SHALL BE FABRICATED WITH GALVANIZED SHEETMETAL IN ACCORDANCE WITH SMACNA STANDARDS FOR LOW PRESSURE DUCT.
- INSULATE SUPPLY AND RETURN DUCTS WITH 2" THICK FIBERGLASS DUCT INSULATION. INSULATION IN UNCONDITIONED SPACES SHALL HAVE A MINIMUM OF AN R-6 VALUE. APPLY AT JOINTS AND SEAMS GENERAL PURPOSE FINISH FABRIC USING FOSTER GPM-35-00 OR EQUIVALENT.
- DUCT CONSTRUCTION SHALL BE IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS, 3rd EDITION-GALVANIZED SHEET METAL.
- DUCT SIZES AND ALL OPENINGS THRU BUILDING CONSTRUCTION SHALL SUIT EQUIPMENT FURNISHED.
- COORDINATE DIFFUSER, GRILLE AND REGISTER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND EQUIPMENT OF ALL TRADES.
- LOCATE THERMOSTAT 54" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.
- ALL EQUIPMENT, DUCTWORK, ETC., SHALL BE SUPPORTED AS DETAILED AND/OR SPECIFIED. PROVIDE ADDITIONAL SUPPORTS AS REQUIRED TO PROVIDE A VIBRATION-FREE, RIGID INSTALLATION.
- ALL DUCT SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS.
- ALL WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN DUCTS AND PIPING (INCLUDING DIVIDED DUCTS) AND TRANSITIONS AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST.
- DAMPERS AND INSIDES OF DUCTS VISIBLE THROUGH GRILLES, REGISTERS AND DIFFUSERS SHALL BE PAINTED FLAT BLACK.
- ACCESS PANELS IN DUCTWORK AND CEILING SHALL BE PROVIDED WHERE REQUIRED FOR OPERATION, BALANCING AND MAINTENANCE OF ALL MECHANICAL EQUIPMENT.
- ALL DUCTWORK AND PIPING IS SHOWN SCHEMATICALLY. PROVIDE ALL TRANSITIONS, TURNING VANES, ELBOWS, FITTINGS, ETC., TO ALLOW SMOOTH FLOWS. ALL SPLIT DUCT FITTINGS SHALL TRANSITION TO FULL SIZE OF THE SUM OF BOTH BRANCHES, UPSTREAM OF SPLIT.
- COORDINATE THERMOSTAT LOCATIONS WITH FURNITURE/EQUIPMENT LAYOUTS, WINDOWS AND DOOR SWING AREAS.
- COORDINATE WITH OWNER BEFORE PURCHASING GRILLES, REGISTERS, DIFFUSERS, LOUVERS AND OTHER AIR DISTRIBUTION DEVICES TO VERIFY FINISH ALL SUPPLY GRILLES TO BE LOUVER FACE-THROW AS INDICATED.
- PROVIDE TRANSITIONS AT DIFFUSER NECKS AS REQUIRED TO MATCH SIZES OF FLEX DUCTS TO BE CONNECTED.
- VERIFY EXISTING CONDITIONS IN FIELD AND COORDINATE WITH ALL TRADES INCLUDING, BUT NOT LIMITED TO, ARCHITECTURAL, STRUCTURAL, LIGHTING, POWER, SYSTEM, PLUMBING, FIRE PROTECTION AND OTHER EXISTING AND NEW WORK.
- MAINTAIN CLEARANCE OF A MINIMUM OF 6" BETWEEN DUCTWORK, PIPING, EQUIPMENT, ETC., AND ALL FIRE RATED AND FIRE/SMOKE RATED PARTITIONS, TO ALLOW FOR INSPECTIONS OF RATED WALLS.
- LOCATE ALL EXHAUST FANS AND PLUMBING VENTS A MINIMUM OF 10'-0" FROM ALL OUTSIDE AIR INTAKES.
- FURNISH A COMPLETE TEST AND BALANCE REPORT FOR ALL EQUIPMENT, AIR DISTRIBUTION AND SMOKE DETECTOR DIFFERENTIAL PRESSURE AND SUBMIT FOR APPROVAL TEST AND BALANCE AGENCY SHALL BE NEBB CERTIFIED.

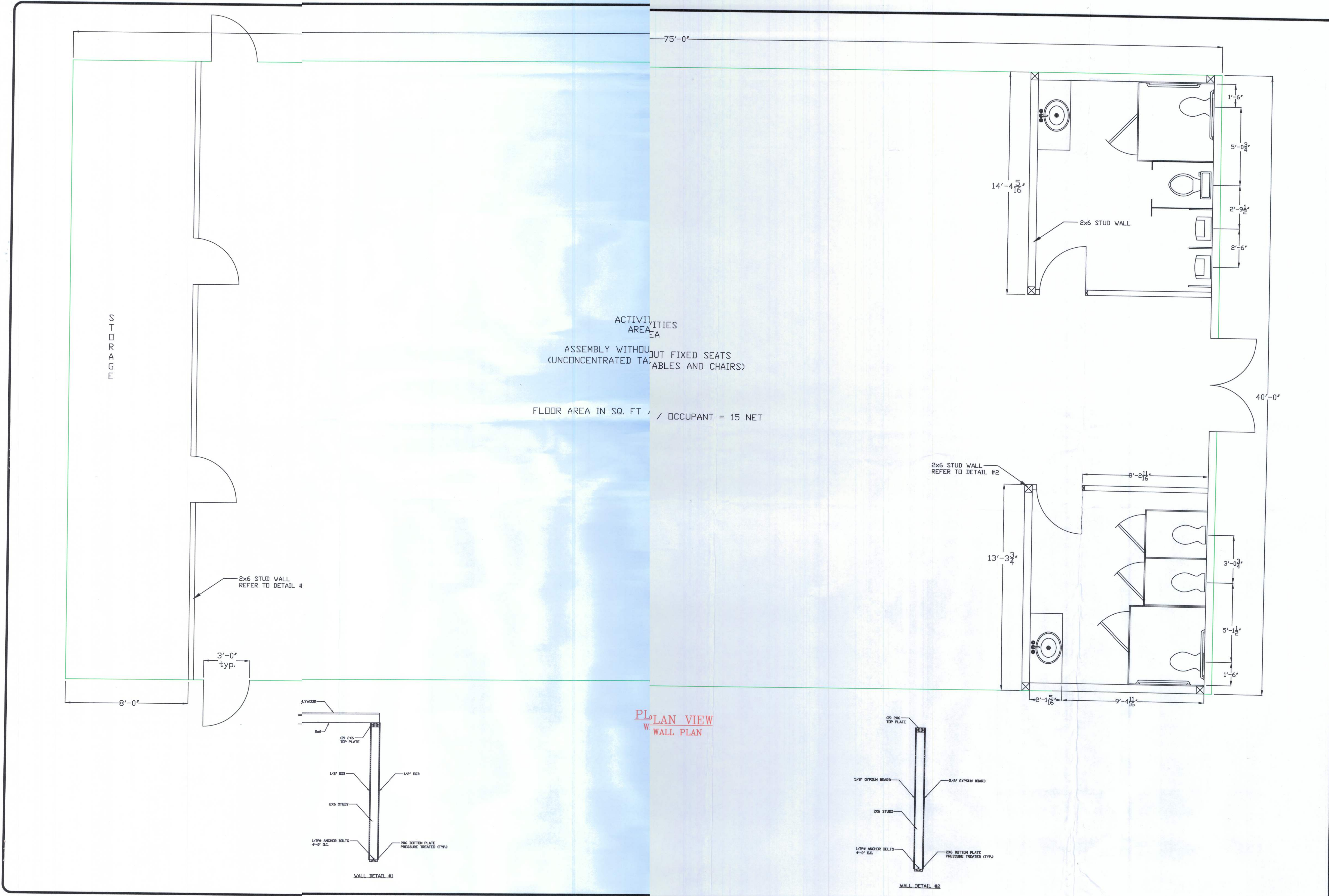
MECHANICAL LEGEND

- SUPPLY AIR DUCT
- RETURN AIR DUCT
- EXHAUST AIR DUCT
- SUPPLY DIFFUSER
- EXHAUST GRILLE
- MANUAL BALANCING DAMPER
- SUPPLY/OUTSIDE AIR DUCT UP
- SUPPLY/OUTSIDE AIR DUCT DOWN
- RETURN DUCT UP
- RETURN DUCT DOWN
- EXHAUST DUCT UP
- THERMOSTAT



AEC
ASSOCIATED ENGINEERING CONSULTANTS, Inc.
522 Stockton Street
Jacksonville, Florida 32204
Phone (904) 294-7902
David D. Boren, P.E.
Registration #25546
Engineering Business
#03-7160

JOB NAME: GRACE AND PRAISE MIN. FELLOWSHIP HALL 15880 US HWY SOUTH 441 LAKE CITY, FL 32024 DRWG. TITLE: MECHANICAL PLAN	W.W. GAY MECHANICAL CONTRACTOR, INC. 524 STOCKTON ST. JACKSONVILLE, FLORIDA 32204 (904) 988-2886 MECHANICAL CONTRACTOR, Inc.	MECHANICAL ENGINEER: DATE: 9/27/10 SCALE: N.T.S. ISSUE A	DESCRIPTION REVISIONS
---	--	---	--------------------------



JOB NAME: GRACE AND PRAISE MIN.		DRWG. TITLE: WALL PLAN	
JOB NUMBER: 010401		CONTRACT SHEET NO. 1 OF 1	
DRAWN BY: J.C.M.		DATE: 1/28/08	
APPROVED BY: W.F.C.		SCALE: N.T.S.	
ARCHITECT:		ISSUE A 10/12/10	
		ISSUE B 9/31/11	
		ISSUE C	
MECHANICAL ENGINEER:		DATE:	DESCRIPTION:
		REVISIONS:	

W.W. GAY MECHANICAL CONTRACTOR, INC.
524 STOCKTON ST.
JACKSONVILLE, FLORIDA 32204
(904) 388-2686



Building Erection. – The Builder/Contractor is responsible for all erection of the steel and associated temporary guys, braces, raise work or other elements required for erection to be determined, furnished and installed by the erector (AISC Code of Standard Practice Sept 86 Section 7.9.1) (Mar 01 Section 7.10.3)

Discrepancies. – Where discrepancies exist between the Metal Building Plans and plans for other trades, the Metal Building plans will govern. (AISC Code of Standard Practice Sept 86 Section 3.3) (Mar 05 Section 3.3)

Materials by Others. – All interface and compatibility of any materials furnished by the manufacturer are the responsibility of and to be coordinated by the Builder/Contractor or A/E firm. Unless specific design criteria concerning any interface between materials is furnished as a part of the order documents, the manufacturers assumptions will govern.

Modification of the Metal Building from Plans – The Metal Building supplied by the manufacturer has been designed according to the Building Code and specifications and the loads shown on this drawing. Modification of the building configuration, such as moving walls or bracing, from the building configuration shown on these drawings. The Metal Building Manufacturer or a Licensed Structural Engineer should be consulted prior to making any changes to the building configuration shown on these drawings. The Metal Building Manufacturer will assume no responsibility for any loads applied to the building not indicated on these drawings.

Foundation Design

The Metal Building Manufacturer is not responsible for the design, materials and workmanship of the Metal Building System. The manufacturer or its subcontractors are intended to show only location, dimension and position of the anchor rods required to attach the Metal Building System to the foundation. It is the responsibility of the customer to ensure that adequate provisions are made for specifying rod embedment, bearing values, tie rods and other associated items embedded in the concrete foundation, as well as foundation design for the loads imposed by the conditions of the building site. (MBMA 06 Sections 3.2.2 and A3)

All structural members of the Metal Building System not fabricated of corrosion resistant material or protected by a corrosion resistant coating are painted with one coat of shop primer meeting the performance requirements of SSPC Paint Specification No. 13. All surfaces to receive shop primer are labeled "Primer".

Steel Primer

Similar Materials
Never allow your roof to come in contact with, or water runoff from, any dissimilar metal including copper and arsenic salts used in treated lumber, calcium used in concrete, or asphalt and gravel.
Debris Removal
Remove any foreign debris such as sawdust, dirt, animal droppings, etc. will cause corrosion of the roof, if left on building surfaces for a long enough time. The roof should be periodically inspected for such conditions and if found, they should be removed.

PROJECT NO.

Wind Exposure Category (I) 1.00
Internal Pressure Coef (GCPI) 0.55/-0.55
Loads for components not provided by building manufacturer
Corner Areas (within 4.80' of corner) 34.43 psf pressure
Other Areas 34.43 psf pressure
These values are the maximum values required based on a 10 sq ft area.
Components w/lt larger areas may have lower wind loads.

[illegible]

the building is downward to a spacing not to exceed 23, 34 feet with the first downward spacing from both ends of the gutter run within 2 feet of the end downward spacing that does not exceed the maximum spacing allowed as provided by the manufacturer. The system is designed to accommodate 10 in/hr rain intensity as it responds to a 5 year recurrence interval.

community Affairs per Product Rule 98-72) Department of Florida, Department of

Panel Walls

FL11917, 4 MBI PBR 22, 24, 26 and 29 gauge walls

Not yet assigned Building 24 gauge walls

FL11918, 2 MBI PBR 22, 24, 26 and 29 gauge walls

Roofing Products

FL11918, 2 MBI PBR 22, 24, 26 and 29 gauge roofs

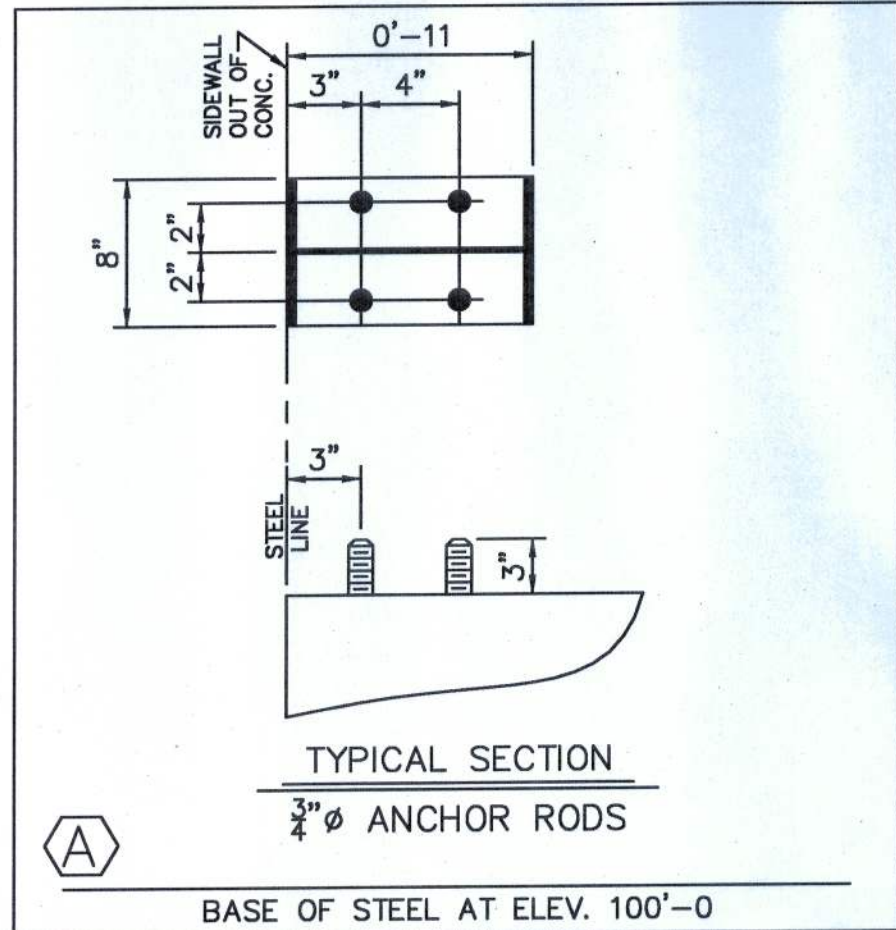
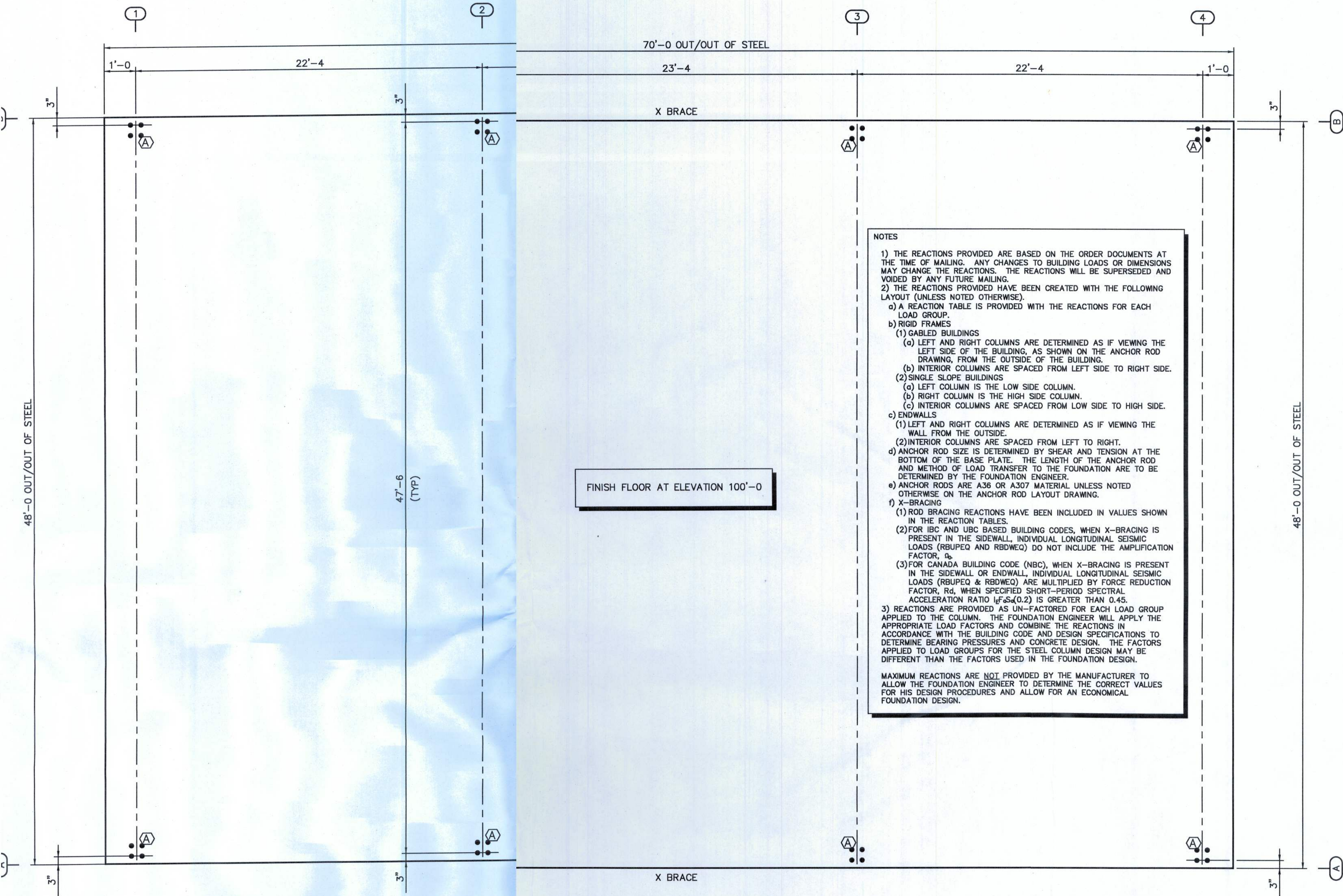
		A&S BUILDING SYSTEMS 1800 HWY. 116, CROYVILLE, TENNESSEE 37174 PHONE: 665-426-2161 FAX: 665-426-2111	
Customer: METAL BUILDING SPECIALISTS 2666 LECHADE ST. JACKSONVILLE FL. 32025		Project Name & Location: RING POWER CORPORATION 360 SW RING COURT LAKE CITY FL. 32025	
Drawing Status:		☒ For Construction Permit ☐ Preliminary ☐ For Approval	
☐ For Erection		☐ For Erector Installation	



LOAD GROUP REACTION TABLE										
COLUMN		LEFT COLUMN				RIGHT COLUMN				
BASE PLATE		8.0x11.0x0.375				8.0x11.0x0.375				
LOAD RODS		4/4" 3/4"				4/4" 3/4"				
LOAD	HL	VL	HL	VL	HR	VR	HL	VL	HR	VR
DL	0.7	2.7	0.0	0.0	-0.7	2.7	0.0	0.0	0.0	0.0
COLL	0.4	1.1	0.0	-0.4	1.1	0.0	0.0	0.0	0.0	0.0
PULL1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PULL2	2.3	0.8	0.0	0.0	-2.3	0.8	0.0	0.0	0.0	0.0
PLR1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL	2.2	7.5	0.0	0.0	-2.2	7.5	0.0	0.0	0.0	0.0
RWBQW	0.0	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
LR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SEBUPEO	0.0	0.0	-0.2	-0.2	0.0	0.0	-0.2	-0.2	0.0	0.0
W1	-5.9	-18.2	0.0	-1.8	-12.2	0.0	-1.8	-12.2	0.0	-1.8
W2	-6.0	-18.2	0.0	-1.8	-12.2	0.0	-1.8	-12.2	0.0	-1.8
W3	1.8	-12.2	0.0	5.9	-18.2	0.0	5.9	-18.2	0.0	5.9
W4	0.8	-2.0	0.0	6.9	-4.0	0.0	6.9	-4.0	0.0	6.9
W5	0.0	-18.8	0.0	0.4	-17.1	0.0	0.4	-17.1	0.0	0.4
RWB,HL	0.0	-0.4	-5.1	0.0	0.0	-0.4	-5.1	0.0	0.0	0.0
LW1	-0.4	-17.1	0.0	0.0	-18.8	0.0	0.0	-18.8	0.0	0.0
LW2	1.3	-13.2	0.0	-1.2	-12.5	0.0	-1.2	-12.5	0.0	-1.2
LW3	1.2	-13.2	0.0	-1.2	-12.5	0.0	-1.2	-12.5	0.0	-1.2
LW4	0.0	4.4	0.0	0.0	4.4	0.0	0.0	4.4	0.0	0.0
LW5	0.0	4.4	0.0	0.0	4.4	0.0	0.0	4.4	0.0	0.0

ANCHOR BOLTS TO BE DESIGNED
BY FOUNDATION ENGINEER USING
DIAMETERS SHOWN IN THIS TABLE.

ANCHOR ROD DESCRIPTION	QUANTITY
$\frac{3}{4}$ " ϕ DIAMETER X	32



NOTES

- (1) THE REACTIONS PROVIDED ARE BASED ON THE ORDER DOCUMENTS AT THE TIME OF MAILING. ANY CHANGES TO BUILDING LOADS OR DIMENSIONS MAY CHANGE THE REACTIONS. THE REACTIONS WILL BE SUPERSEDED AND VOIDED BY ANY FUTURE MAILING.
- (2) THE REACTIONS PROVIDED HAVE BEEN CREATED WITH THE FOLLOWING LAYOUT (UNLESS NOTED OTHERWISE)
 - a) A REACTION TABLE IS PROVIDED WITH THE REACTIONS FOR EACH LOAD GROUP.
 - b) RIGID FRAMES
 - c) GABLED BUILDINGS
 - (a) LEFT AND RIGHT COLUMNS ARE DETERMINED AS IF VIEWING THE LEFT SIDE OF THE BUILDING, AS SHOWN ON THE ANCHOR ROD DRAWING, FROM THE OUTSIDE OF THE BUILDING.
 - (b) INTERIOR COLUMNS ARE SPACED FROM LEFT SIDE TO RIGHT SIDE.
 - d) SINGLE SLOPE BUILDINGS
 - (a) LEFT COLUMN IS THE LOW SIDE COLUMN.
 - (b) RIGHT COLUMN IS THE HIGH SIDE COLUMN.
 - (c) INTERIOR COLUMNS ARE SPACED FROM LOW SIDE TO HIGH SIDE.
 - e) ENDWALLS
 - (1) LEFT AND RIGHT COLUMNS ARE DETERMINED AS IF VIEWING THE WALL FROM THE OUTSIDE.
 - (2) INTERIOR COLUMNS ARE SPACED FROM LEFT TO RIGHT.
 - d) ANCHOR RODS ARE DETERMINED BY SHEAR AND TENSION AT THE BOTTOM OF THE BASE PLATE. THE LENGTH OF THE ANCHOR ROD AND METHOD OF LOAD TRANSFER TO THE FOUNDATION ARE TO BE DETERMINED BY THE FOUNDATION ENGINEER.
 - e) ANCHOR RODS ARE A36 OR A507 MATERIAL, UNLESS NOTED OTHERWISE, ON THE ANCHOR ROD LAYOUT DRAWING.
 - f) X-BRACING
 - (1) ROD BRACING REACTIONS HAVE BEEN INCLUDED IN VALUES SHOWN IN THE REACTION TABLES.
 - (2) FOR IBC AND UBC BASED BUILDING CODES, WHEN X-BRACING IS PRESENT IN THE SIDEWALL, INDIVIDUAL LONGITUDINAL SEISMIC LOADS (RBUPEQ AND RBDWEQ) DO NOT INCLUDE THE AMPLIFICATION FACTOR, a_h .
 - (3) FOR CANADA BUILDING CODE (NBC), WHEN X-BRACING IS PRESENT IN THE SIDEWALL OR ENDWALL, INDIVIDUAL LONGITUDINAL SEISMIC LOADS (RBUPEQ & RBDWEQ) ARE MULTIPLIED BY FORCE REDUCTION FACTOR, R_d , WHEN SPECIFIED SHORT-PERIOD SPECTRAL ACCELERATION RATIO $I_p/S_a(0.2)$ IS GREATER THAN 0.45.
 - 3) REACTIONS ARE PROVIDED AS UN-FACTORED FOR EACH LOAD GROUP APPLIED TO THE BUILDING. THE FOUNDATION ENGINEER WILL APPLY THE APPROPRIATE LOAD FACTORS AND COMBINE THE REACTIONS IN ACCORDANCE WITH THE BUILDING CODE AND DESIGN SPECIFICATIONS TO DETERMINE BEARING PRESSURES AND CONCRETE DESIGN. THE FACTORS APPLIED TO LOAD GROUPS FOR THE STEEL COLUMN DESIGN MAY BE DIFFERENT THAN THE FACTORS USED IN THE FOUNDATION DESIGN.

MAXIMUM REACTIONS ARE NOT PROVIDED BY THE MANUFACTURER TO ALLOW THE FOUNDATION ENGINEER TO DETERMINE THE CORRECT VALUES FOR HIS DESIGN PROCEDURES AND ALLOW FOR AN ECONOMICAL FOUNDATION DESIGN.

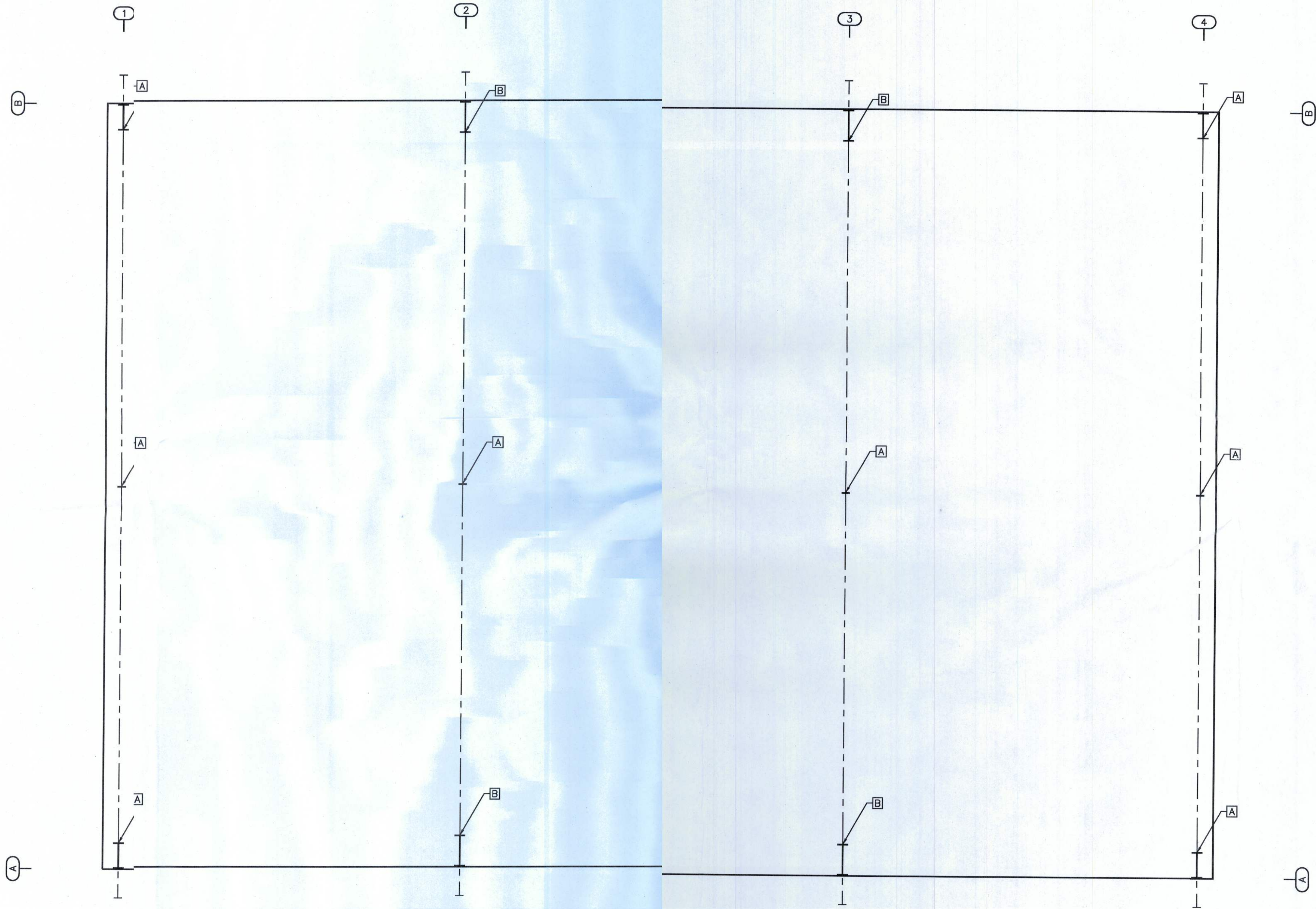
Anchor Rod Drawings

- 1) This drawing is for anchor rod placement only and is not foundation design.
- 2) Foundation must be square and level with all anchor rods true in size, location, and projection.
- 3) Projection shown must be held to keep threads clear of finished concrete.
- 4) This structural design data includes magnitude and location of design loads and suppose conditions, material properties, and type and size of major structural members necessary to show compliance with the Order Documents at the time of this issue. Any change to building loads or dimensions may change structural member sizes and configurations shown. This structural design data will be superseded or modified by any future mailing.
- 5) Anchor rod size is determined by shear and tension at the bottom of the base plate. The length of the anchor rod and method of load transfer to the foundation are to be determined by the foundation engineer, and are not provided by the manufacturer.
- 6) Anchor rods are A36 or A307 material unless noted otherwise.

 A&S BUILDING SYSTEMS 1880 HWY. 116, CARYVILLE, TENNESSEE 37714 PHONE: 865-426-2141 FAX: 865-426-2011	Revision	Date	Description	By	Ck'd
	0	04/12/11	FOR ERECTOR INSTALLATION	EDB	MARK
Customer: METAL BUILDING SPECIALIS 1286 LECHLADE ST. JACKSONVILLE FL 32205		Project Name & Location: RING POWER CORPORATION 390 SW RING COURT LAKE CITY FL 32025			
Drawing Status: ☐ Preliminary ☐ For Construction ☒ Permit		☐ For Approval ☒ For Erector Installation			
Scale: NOT TO SCALE					
Drawn by: EDB 4/8/11					
Checked by: MARK 4/8/11					
Project Engineer: JRF					
Job Number: 22-T-53538-1					
Sheet Number: F1 of 1					
The engineer whose seal appears herein is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.					
Aaron K. Batchellor, P.E. Florida P.E. 67187					



SPlice Bolt Table					
Conn.	Qty.	Size	Type	Hardened Washers	Beveled Washers
A	(8)	3/4" X 2"	A325 B&N	0	0
B	(10)	3/4" X 2"	A325 B&N	0	0

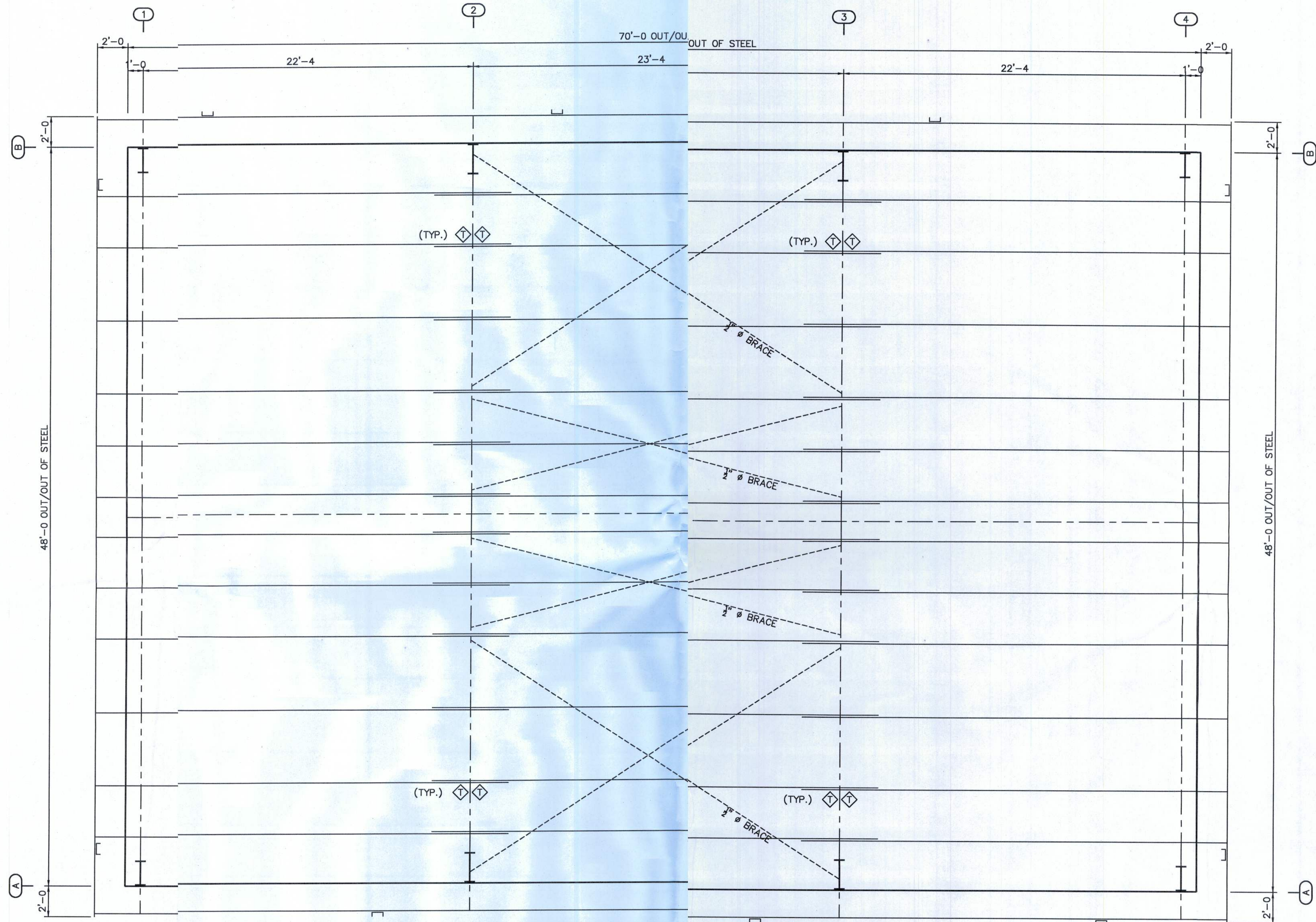


PRIMARY STEEL ELEVATION LOCATION PLAN

 A&S BUILDING SYSTEMS 1880 HWY. 116, CARYVILLE, TENNESSEE 37714 PHONE: 865-426-2141 FAX: 865-426-2011	Revision		Date	Description	By	Ch'd
	A		04/12/11	FOR CONSTRUCTION PERMIT	EDB	MARK
Project Name & Location: RING POWER CORPORATION 390 SW RING COURT LAKE CITY, FL 32025		Drawing Status: ☒ Preliminary ☐ For Approval ☐ For Erector Installation				
Customer: METAL BUILDING SPECIALS 1266 LECHLADE ST. JACKSONVILLE, FL 32205						
Scale: NOT TO SCALE						
Drawn by: EDB 4/8/11						
Checked by: MARK 4/12/11						
Project Engineer: JRF						
Job Number: 22-T-53531-1						
Sheet Number: E2 of 1						
The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.						
Aaron K. Batchelor, P.E. Florida P.E. 67187						



Z_SECTION LAP TABLE			
SYMBOL	LAP (LENGTH)	SYMBOL	LAP (LENGTH)
	0'-2" (3 $\frac{1}{2}$ ")		2'-4" (2'-5 $\frac{1}{2}$ ")
	1'-4" (1'-5 $\frac{1}{2}$ ")		3'-0" (3'-1 $\frac{1}{2}$ ")



ROOF FRAMING PLAN

A&S BUILDING SYSTEMS 1880 HWY. 116, CARYVILLE, TENNESSEE 37714 PHONE: 865-428-2141 FAX: 865-428-2011		Revision	Date	Description	By	Ck'd
		A	04/12/11	FOR CONSTRUCTION PERMIT	EDB	MARK
Customer: METAL BUILDING SPECIALIS 1266 LECHLADE ST. JACKSONVILLE FL 32205		Project Name & Location: RING POWER CORPORATION 390 SW RING COURT LAKE CITY FL 32025				
		Drawing Status: ☐ Preliminary ☒ For Construction Permit ☐ For Erector Installation				
Scale: NOT TO SCALE Drawn by: EDB 4/8/11 Checked by: MARK 4/12/11 Project Engineer: JRF Job Number: 22-T-53538-1 Sheet Number: E3 of 11						
The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.						
Aaron K. Batchellor, P.E. Florida P.E. 67187						



PANEL TYPE = PBR (GALVALUME)
PANEL OVERHANG = 3"
FROM OUTER STEEL

PANEL TYPE = PBR (GALVALUME)
PANEL OVERHANG = 3"
FROM OUTER STEEL

1'-0" BACKLAP

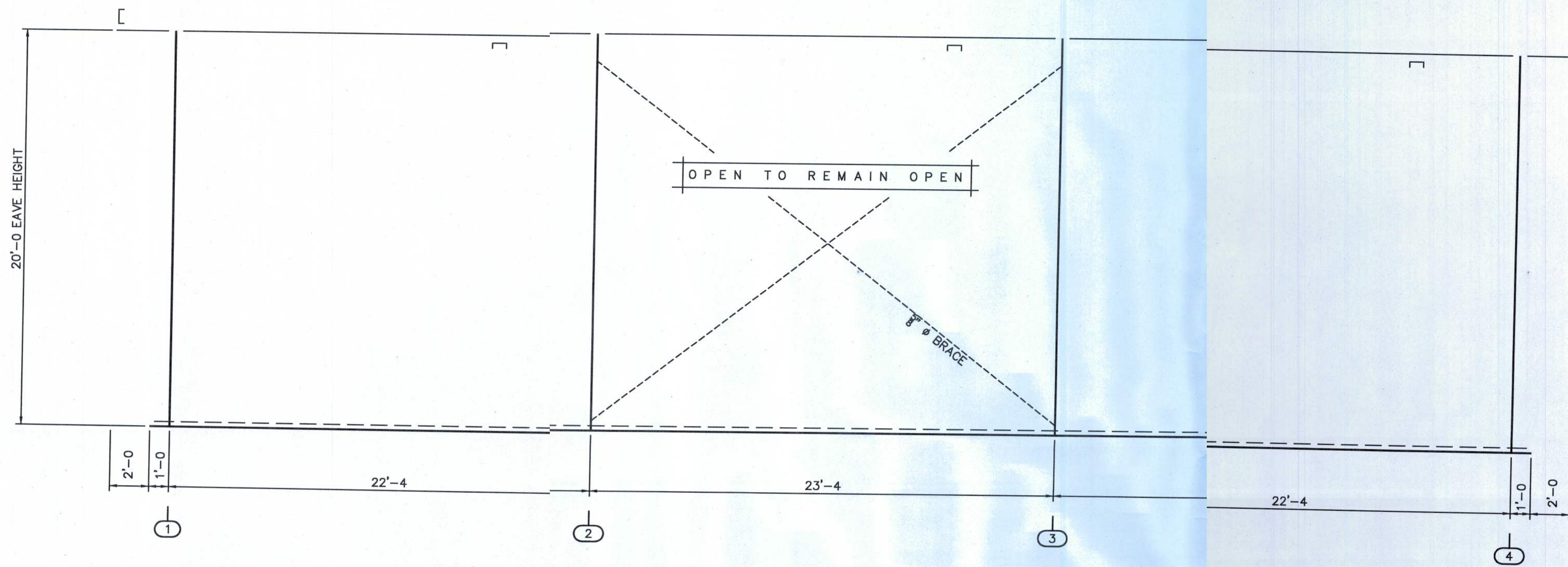
1'-0" BACKLAP

ROOF SHEETING PLAN

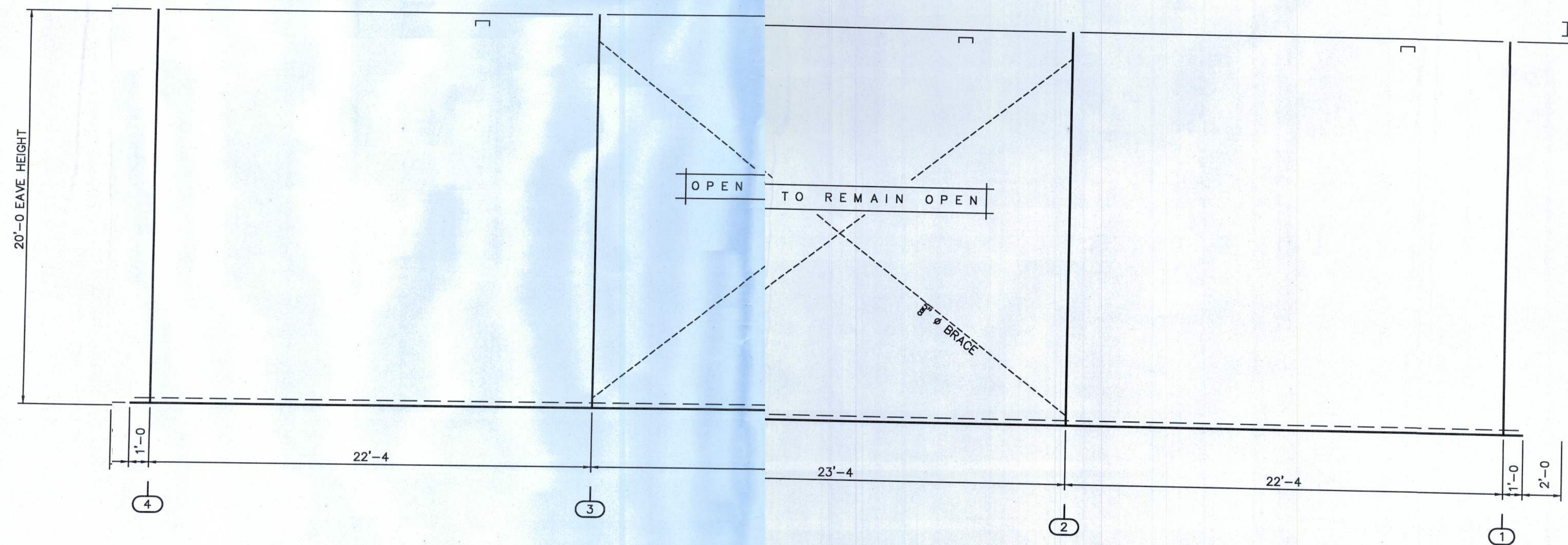
USE STANDARD WALL PROCEDURES TO ERECT THE SIDEWALL AND ENDWALL PANELS.

		A&S BUILDING SYSTEMS 1880 HWY. 116, CARYVILLE, TENNESSEE 37714 PHONE 865-428-2141 FAX 865-428-2011		Revision A		Date 04/12/11		Description FOR CONSTRUCTION PERMIT		By EDB		Ck'd MARK	
Customer: METAL BUILDING SPECIALS 1266 LECHLAD ST. JACKSONVILLE FL 32205				Project Name & Location: RING POWER CORPORATION 390 SW RING COURT LAKE CITY FL 32025				☒ For Construction Permit ☐ For Erector Installation					
Drawing Status: ☐ Preliminary ☐ For Approval													
Scale: NOT TO SCALE													
Drawn by: EDB 4/8/11													
Checked by: MARK 4/12/11													
Project Engineer: JRF													
Job Number: 22-T-53538-													
Sheet Number: E4 of 11													
The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.													
Aaron K. Batchellor, P.E. Florida P.E. 67187													



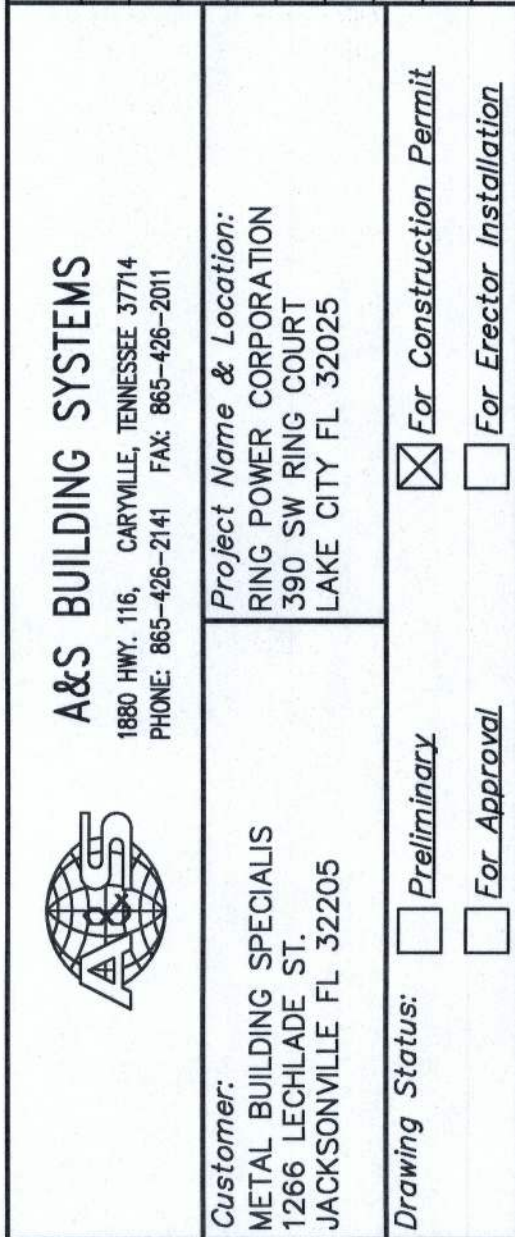


SIDEWALL ELEVATION AT GRID LINE "A"



SIDEWALL ELEVATION AT GRID LINE "B"

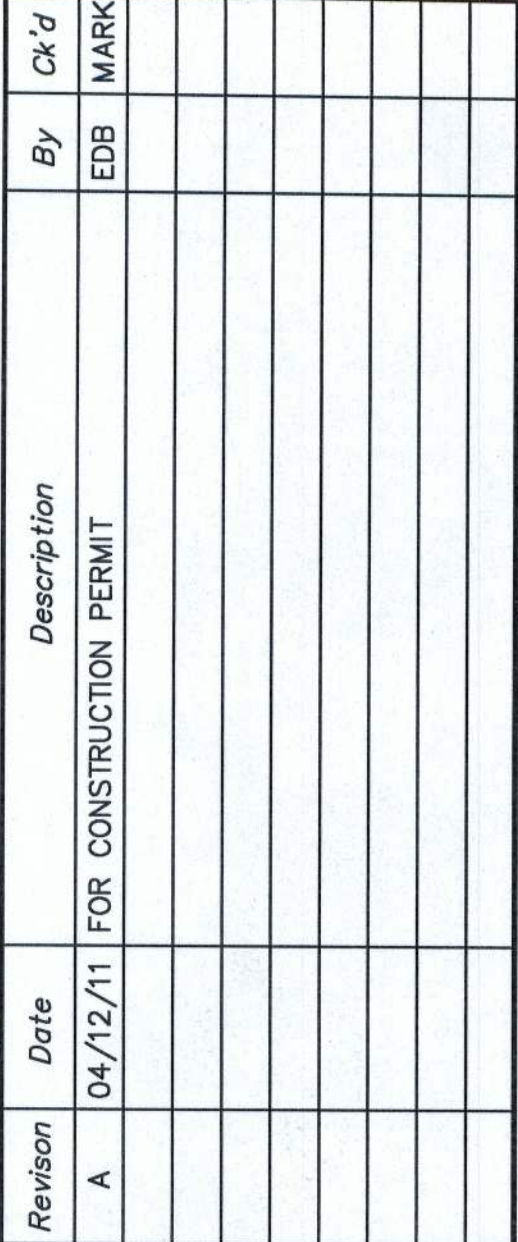
GENERAL NOTES
FRAME CLEARANCES SHOWN ARE APPROXIMATE AND
MAY VARY DUE TO CONDITIONS (DEFLECTION).
VERTICAL CLEARANCE DIMENSIONS ARE FROM
FINISHED FLOOR REFERENCE ELEVATION.



The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

A circular professional engineer seal for Aaron K. Batchelor, State of Florida, License No. 27187. The seal includes the text "AARON K. BATCHELOR", "LICENSE", "No. 27187", "STATE OF FLORIDA", and "PROFESSIONAL ENGINEER". A signature is written across the seal, and the date "Apr 13, 2011" is stamped at the bottom.

SPlice Bolt Table					
Conn.	Qty.	Size	Type	Hardened Washers	Beveled Washers
A	(8)	$\frac{3}{4}$ x 2"	A325 B&N	0	0



	A&S BUILDING SYSTEMS 1880 HWY. 116, KARYVILLE, TENNESSEE 37174 PHONE: (615)-426-2141 FAX: (615)-426-2011	
	Customer: METAL BUILDING SPECIALS 12666 LECHADE ST. JACKSONVILLE FL 32205	Project Name & Location: RING POWER CORPORATION 390 SW RING COURT LAKE CITY FL 32025
Drawing Status: ☐ Preliminary		☒ For Construction Permit
☐ For Approval		☐ For Erector Installation

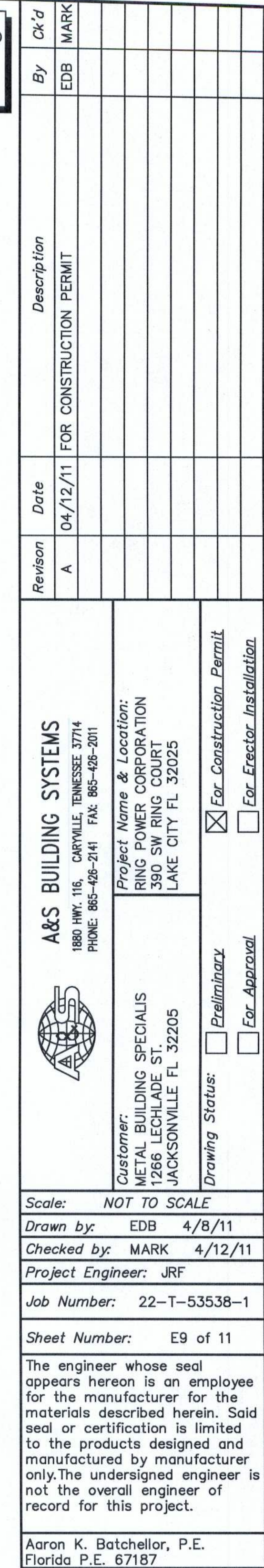
Scale:	NOT TO SCALE	
Drawn by:	EDB	4/8/11
Checked by:	MARK	4/12/11
Project Engineer:	JRF	
Job Number:	22-T-53538-1	
Sheet Number:	E8 of 11	

The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

Aaron K. Batchellor, P.E.
Florida P.E. 67187

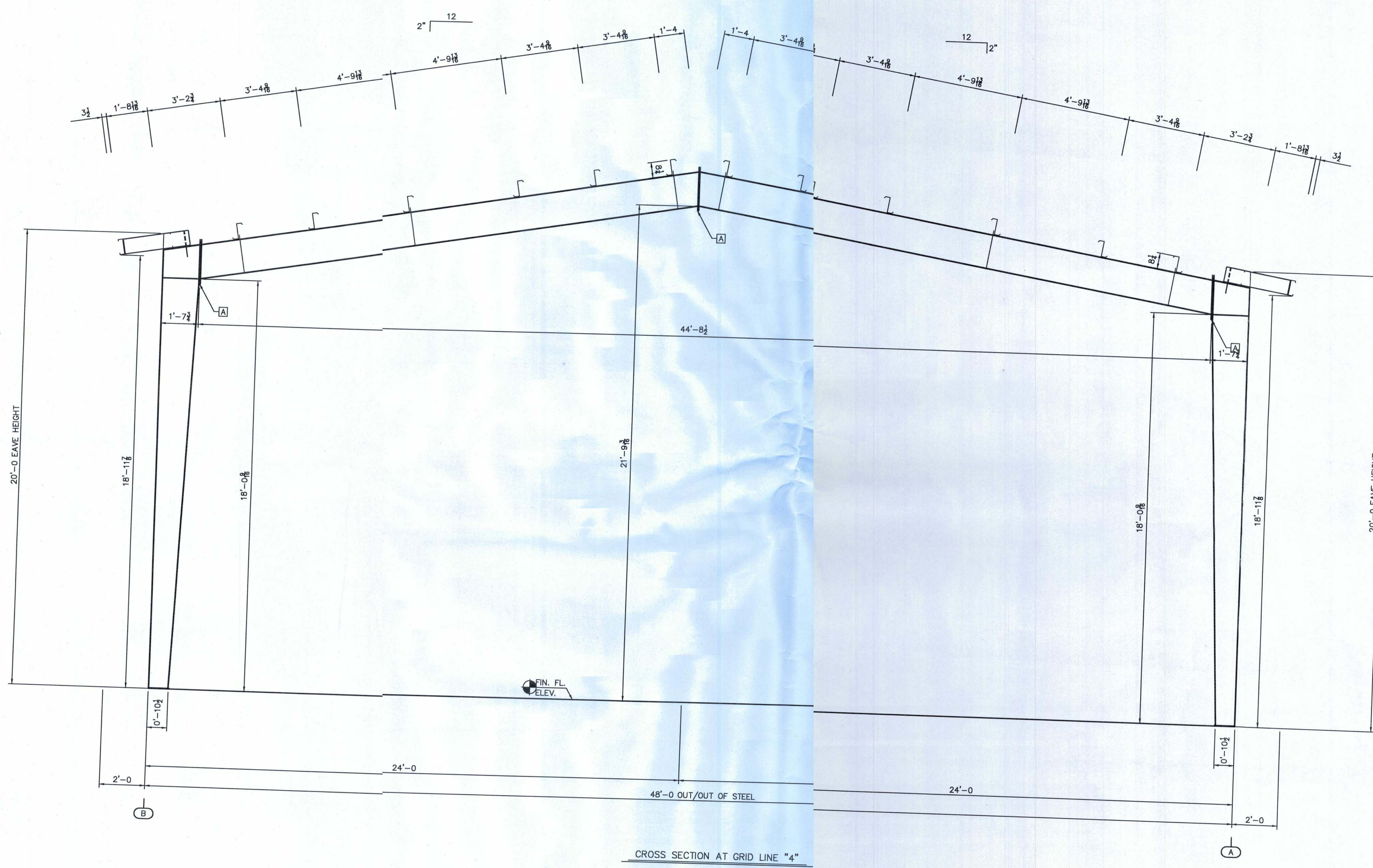
SPlice Bolt Table					
CONN.	QTY.	SIZE	TYPE	HARDENED WASHERS	BEVELED WASHERS
A	(10)	$\frac{3}{4}$ X 2"	A325 B&N	0	0
B	(8)	$\frac{3}{4}$ X 2"	A325 B&N	0	0



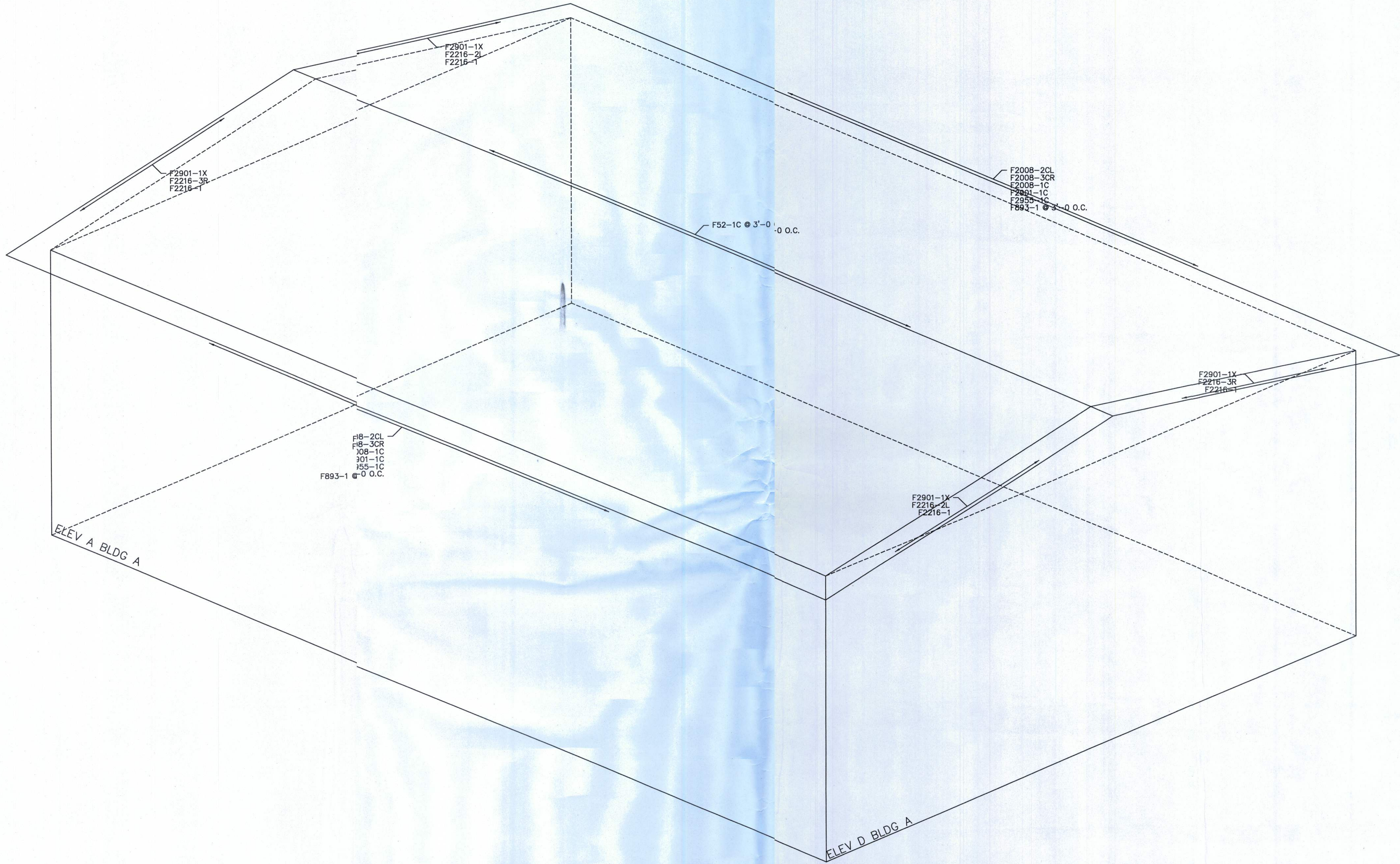


A circular professional engineer seal for Aaron K. Batchellor, State of Florida. The seal contains the text: AARON K. BATCHELLOR, LICENSE No. 27187, STATE OF FLORIDA, PROFESSIONAL ENGINEER. A signature is written across the seal. Below the seal, the date APR 13, 2011 is stamped.

GENERAL NOTES
FRAME CLEARANCE
MAY VARY DUE
VERTICAL CLEARANCE
FINISHED FLOOR



SPlice Bolt Table				
QTY.	SIZE	TYPE	HARDENED WASHERS	BEVELED WASHERS
(8)	3/4 X 2"	A325 B&N	0	0



FLASHING LAYOUT

Revision	Date	Description	By	Ch'd
A	04/12/11	FOR CONSTRUCTION PERMIT	EDB	MARK

A&S BUILDING SYSTEMS 1880 HWY. 116, CARYVILLE, TENNESSEE 37714 PHONE: 865-428-2141 FAX: 865-428-2011	
Customer: METAL BUILDING SPECIALS 1266 LECHLIDE ST. JACKSONVILLE FL 32205	Project Name & Location: RING POWER CORPORATION 390 SW RING COURT LAKE CITY FL 32025
Drawing Status: ☐ Preliminary ☐ For Approval	☒ For Construction Permit ☐ For Erector Installation

Scale: NOT TO SCALE

Drawn by: EDB 4/8/11

Checked by: MARK 4/12/11

Project Engineer: JRF

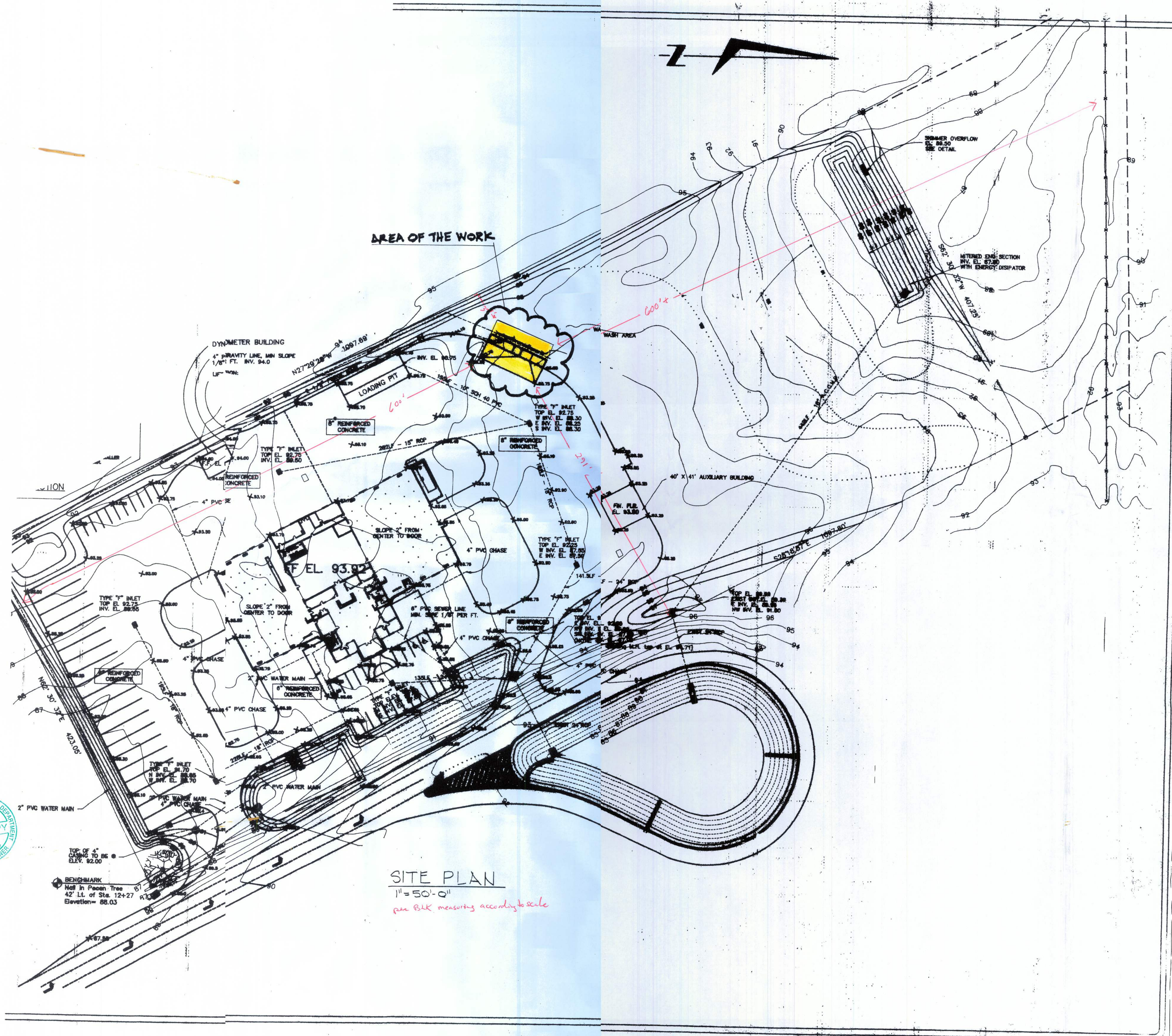
Job Number: 22-T-53538-1

Sheet Number: E11 of 11

The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

Aaron K. Batchellor, P.E.
Florida P.E. 67187





NEW METAL BUILDING STRUCTURE FOR
RINGPOWER CORPORATION
CANNON CREEK - I-75 AND CR 47
COLUMBIA COUNTY, FLORIDA

Contract Stage:
CONSTRUCTION DRAWINGS

Revisions:

NO.	DESCRIPTION

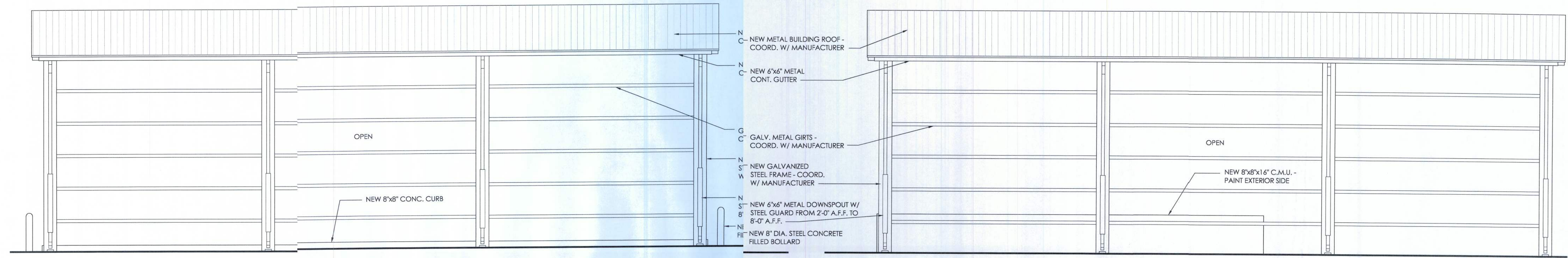
Drawn By:
Checked By:
Sheet Title:

SITE PLAN

Sheet No:

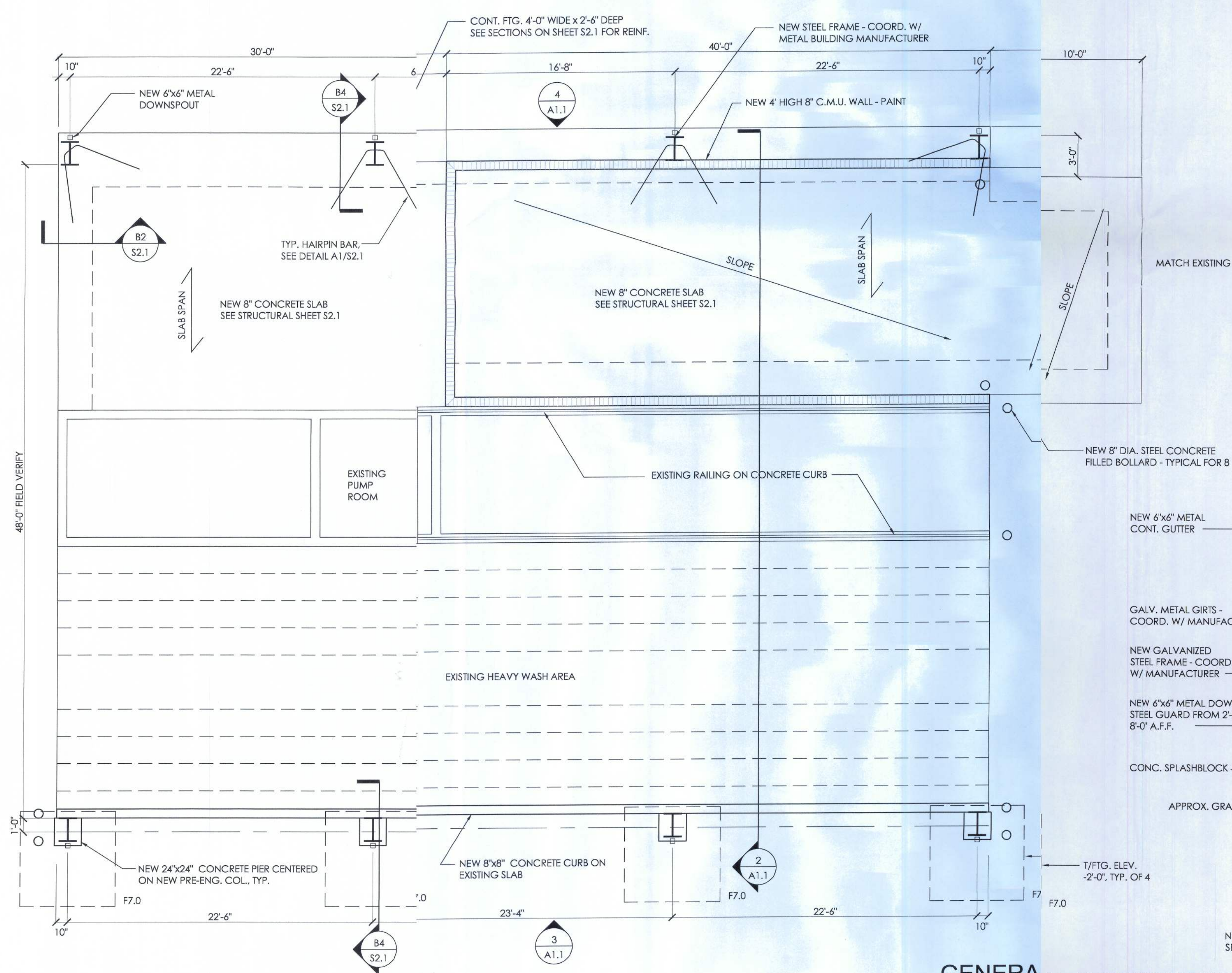
A1.0

Last Plot Date: 04/04/2011



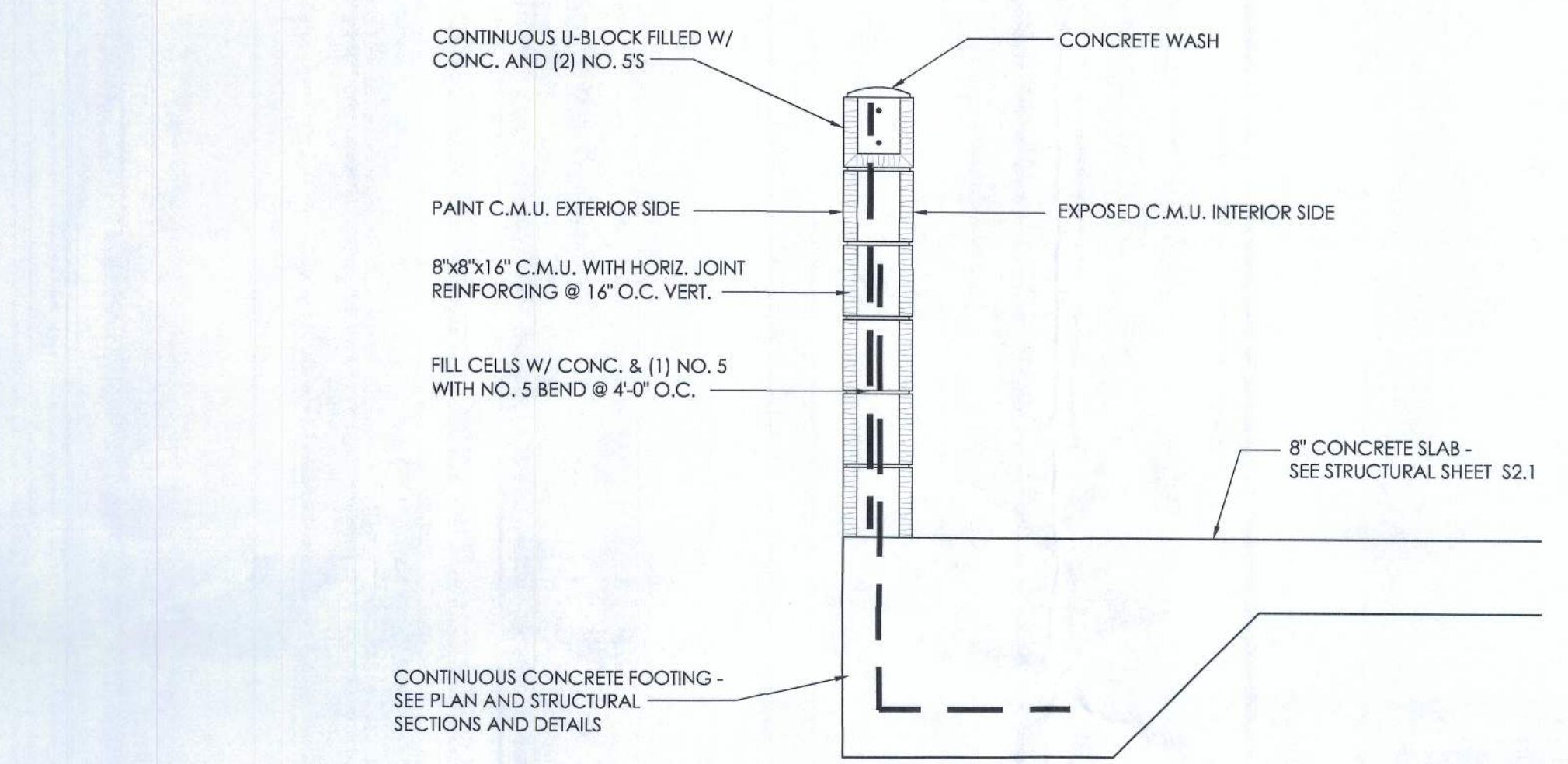
3 EAST ELEVATION
A1.1 SCALE: 3/16" = 1'-0"

4 WEST ELEVATION
A1.1 SCALE: 3/16" = 1'-0"

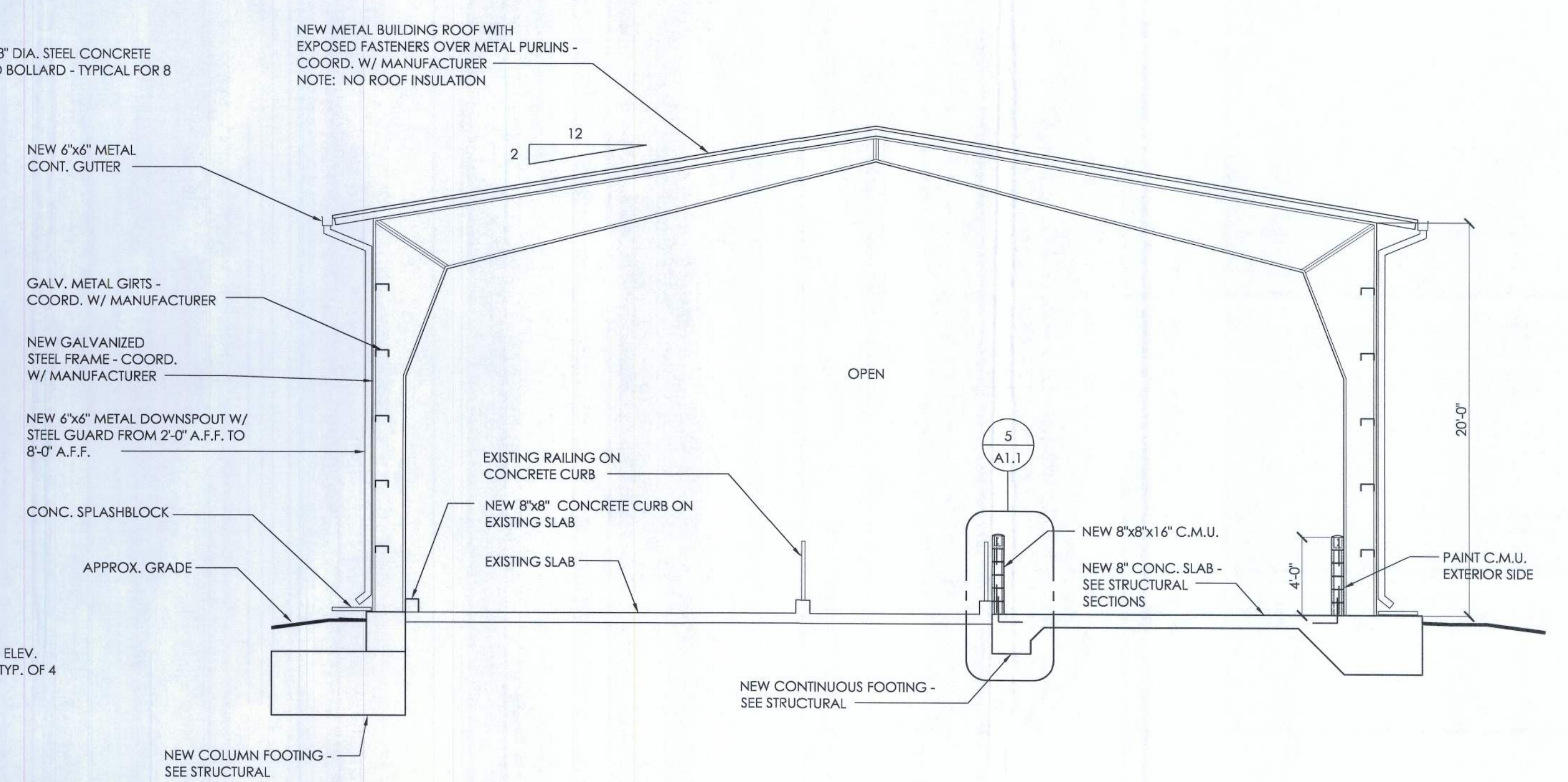


1 FLOOR AND FOUNDATION PLAN
A1.1 SCALE: 3/16" = 1'-0"

GENERAL INFORMATION
BUILDING OCCUPANCY - U - UTILITY
BUILDING CONSTRUCTION TYPE - II-B
AREA UNDER ROOF - 3,360 S.F.



5 SECTION THRU NEW LOW WALL
A1.1 SCALE: 3/4" = 1'-0"



2 BUILDING SECTION (NORTH ELEVATION SIMILAR)
A1.1 SCALE: 3/16" = 1'-0"

CHARLES R. WALKER, AIA
741 PALMERA DRIVE EAST
PONTE VEDRA BEACH, FL 32082
904.868.1584

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION & REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION UNDER THE LAWS OF THE STATE OF FLORIDA.

CHARLES R. WALKER AR0006658

Charles R. Walker
4-12-11

NEW METAL BUILDING STRUCTURE FOR
RINGPOWER CORPORATION
CANNON CREEK - I-75 AND CR 47
COLUMBIA COUNTY, FLORIDA

Contract Stage
CONSTRUCTION DRAWINGS

Revisions:

NO.	DESCRIPTION	DATE

Drawn By:
Checked By:
Sheet Title:

Sheet No:
A1.1
Last Plot Date: 04/04/2011

GENERAL STRUCTURAL NOTES

FLORIDA BUILDING CODE 2007 w/LATEST SUPPLEMENTS

DESIGN CRITERIA:

LOADS:

DESIGN LOADS:
ROOF LIVE LOADS:
20 PSF TYP. U.O.N.

DEAD LOADS:
COLLATERAL 7 PSF
WIND LOADS PER ASCE 7-05
120 MPH WIND SPEED, EXPOSURE CATEGORY C
BUILDING IMPORTANCE FACTOR I=1.0

CONCRETE:
ALL CONCRETE NOT OTHERWISE DESIGNATED SHALL 3000 PSI AT END OF 28 DAYS AS DETERMINED BY USE OF ASTM C31 AND C39. CODES GOVERNING WORK ARE AS FOLLOWS:
ACI-318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, LATEST EDITION.
ACI-347 RECOMMENDED PRACTICE FOR CONCRETE REINFORCEMENT, LATEST EDITION.
ACI-301 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS, LATEST EDITION.

ALL REINFORCING SHALL BE HELD SECURELY IN POSITION WITH STANDARD ACCESSORIES IN CONFORMANCE WITH CRSI MANUAL OF STANDARD PRACTICE AND ACI 315 DURING PLACEMENT OF THE CONCRETE.

UNLESS OTHERWISE NOTED, SPLICES IN REINFORCEMENT WHERE PERMITTED, SHALL BE AS FOLLOWS:
WELDED WIRE FABRIC WIRE SPACING PLUS 6"
REINFORCING BARS 40 BAR DIAMETERS

ALL REINFORCING STEEL SHALL CONFORM TO ASTM 15, GRADE 60. LAPS SHALL CONFORM TO THE REQUIREMENTS OF ACI 318 OR AS INDICATED ON THE DRAWINGS. USE CLASS B STEELS UNLESS OTHERWISE NOTED. MINIMUM COVER SHALL BE AS FOLLOWS:
FOOTINGS: 3"
COLUMNS AND PEDESTALS: 2"
SLABS AND WALLS (EXPOSED TO EARTH, LIQUID OR WEATHER): 2"
SLABS AND WALLS (NOT EXPOSED TO EARTH, LIQUID OR WEATHER): 3/4"
SLABS ON GRADE: 2" FROM TOP

ALL HOOKS IN REINFORCING BARS SHALL BE AN ANCHORED HOOK, U.O.N.

DOWELS FROM FOUNDATIONS OR SLABS TO WALLS SHALL MATCH WALL REINFORCING, U.O.N. DOWELS SHALL BE PLACED BEFORE CONCRETE IS PLACED. THEY SHALL NOT BE PUSHED INTO CONCRETE.

PROVIDE 3/4" CHAMFER AT ALL EXPOSED CORNERS OF BEAMS, WALL, ETC.

AT CHANGE IN DIRECTION OF CONCRETE WALLS, BEAMS AND STRIP FOOTINGS PROVIDE CORNER BARS OF SAME SIZE AND SPACING AS HORIZONTAL STEEL.

STRUCTURAL STEEL: (PER CURRENT EDITION AISC)
ALL WELDED WIRE FABRIC ASTM A185
WIDE FLANGE: ASTM A572 GRADE 50
STEEL PIPE ASTM A53, GRADE B, OR ASTM A501
STEEL TUBE ASTM A500, GRADE B.
CHANNELS, ANGLES, PLATES AND OTHER MIS. STEEL ASTM A36.
ALL BOLTS SHALL BE 3/4" DIAMETER (A325N) U.O.N.
ANCHOR BOLTS SHALL BE ASTM A307
WELDED STUDS ASTM A108
DEFORMED BAR ANCHORS ASTM, A706

STRUCTURAL STEEL GROUT: FOR STEEL COLUMNS SHALL BE A NON-SHRINKAGE, NON-EXPANSIVE, NON-METALLIC, GROUT WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 5,000 PSI WHEN TESTED IN ACCORDANCE WITH ASTM C109. FORMS SHALL BE PLACED AROUND BASE PLATE AND THE STRUCTURAL GROUT SHALL BE POURED. NO DRY/DAMP PACKING.

MINIMUM SIZE OF FILLET WELDS SHALL CONFORM TO AISC SPECIFICATIONS EVEN THOUGH SHOWN OTHERWISE ON ARCHITECTURAL, MECHANICAL OR STRUCTURAL DRAWINGS. ALL WELDS ALONG THE LENGTH OF MEMBERS INDICATED ON ARCHITECTURAL OR STRUCTURAL DRAWINGS, BUT NOT SIZED, SHALL BE MINIMUM 3/16" ALTERNATING 2-12

ALL WELDS SHALL BE MADE WITH E70XX ELECTRODE. ALL WELDING IS TO BE DONE BY WELDERS HOLDING CURRENT CERTIFICATES FROM A RECOGNIZED TESTING LAB. ALL WELDS ARE TO BE PER A.W.S. D1.1 CODE

PRIME ALL STEEL SURFACES BOTH EXPOSED AND COATED, ARE TO RECEIVE ONE SHOP COAT AND FIELD SPOT PRIME (WELDS, SCARS, CORNERS, ETC.)

ALL ANGLES, BARS, ANCHORS, ANCHOR BOLTS, ETC. EMBEDDED IN CONCRETE SHALL BE HOT DIPPED GALV. AFTER FABRICATION.

ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALV. AFTER FABRICATION.

SHOP DRAWINGS:
ALL FABRICATED ITEMS ARE TO HAVE APPROVED SHOP DRAWINGS BEFORE FABRICATION. CONTRACTOR SHALL CAREFULLY CHECK AND STAMP "APPROVED" BEFORE SUBMITTAL TO THE ENGINEER. NO SPLICES OR OTHER DETAILS ARE TO BE ADDED WITHOUT SUBMITTAL.

EXPANSION ANCHORS: U.O.N. INSTALL ANCHORS PER MANUFACTURER'S WRITTEN INSTRUCTIONS, INCLUDING MINIMUM EMBEDMENTS AND EDGE DISTANCE. ALL ANCHORS WITH EXTERIOR EXPOSURE SHALL BE HOT DIPPED GALV.

CONTRACTOR SHALL VERIFY ALL STRUCTURAL OPENINGS AFFECTED BY MECH. EQUIPMENT PURCHASED BEFORE PROCEEDING WITH STRUCTURAL WORK.

NO STRUCTURAL MEMBER SHALL BE CUT, NOTCHED OR OTHERWISE REDUCED IN STRENGTH.

MASONRY:
CONCRETE MASONRY UNITS SHALL BE HOLLOW UNIT MASONRY IN ACCORDANCE WITH ASTM C90 AND SHALL HAVE A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 1900 PSI WHEN USING TYPE M OR S MORTAR (ASTM C270). IN ACCORDANCE WITH ACI 530, THE 1900 PSI BLOCK IN COMBINATION WITH TYPE M OR S MORTAR PROVIDES A DESIGN COMPRESSIVE STRENGTH (f'm) OF 1500 PSI.
GROUT:
THE GROUT SHALL BE IN ACCORDANCE WITH ASTM C476 AND SHALL HAVE A MAXIMUM COURSE AGGREGATE OF 3/8" PLACED AT AN 8" TO 11" SLUMP AND HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 2000 PSI AT 28 DAYS WHEN TESTED IN ACCORDANCE WITH ASTM C1019.

GROUT POUR HEIGHTS-THE TOTAL HEIGHT OF MASONRY TO BE GROUTED PRIOR TO ERECTION OF ADDITIONAL MASONRY.
GROUT POUR-CONSISTS OF ONE OR MORE GROUT LIFTS.
GROUT LIFT-THE LAYER OF GROUT PLACED IN A SINGLE CONTINUOUS OPERATION AND IS LIMITED TO 5 FEET.

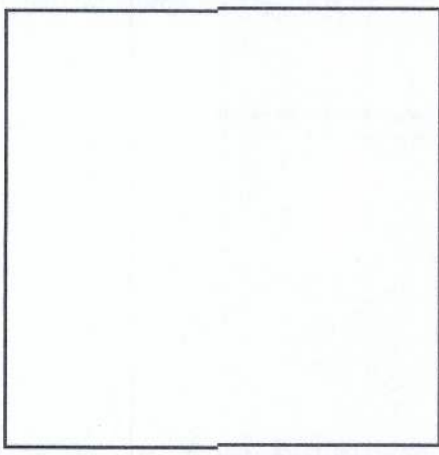
THE CONTRACTOR SHALL DESIGN, ENGINEER AND ERECT ALL TEMPORARY BRACING INCLUDING MEASURES NECESSARY TO PROTECT THE STRUCTURE AND ANY PERSONNEL DURING CONSTRUCTION.

VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.

CHARLES R. WALKER, AIA
741 PALMERA DRIVE EAST
PONTE VEDRA BEACH, FL 32082
904.868.1584

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION UNDER THE LAWS OF THE STATE OF FLORIDA.

CHARLES R. WALKER AR00006658



NEW METAL BUILDING STRUCTURE FOR
RINGPOWER CORPORATION
CANNON CREEK - I-75 AND CR 47
COLUMBIA COUNTY, FLORIDA

Contract Stage
CONSTRUCTION DRAWINGS

Revisions:	

Drawn By:
Checked By:

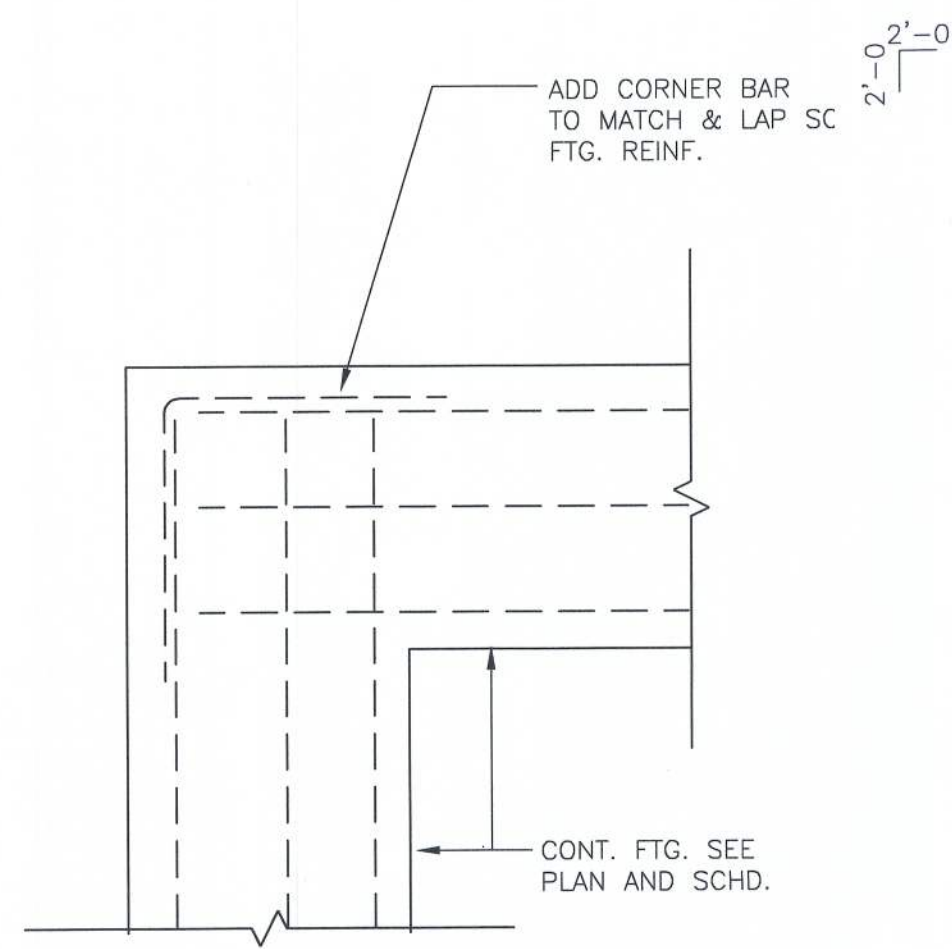
Sheet Title:
DESIGN CRITERIA
AND
GENERAL NOTES

Sheet No:

S1.1

Last Plot Date: 04/04/2011

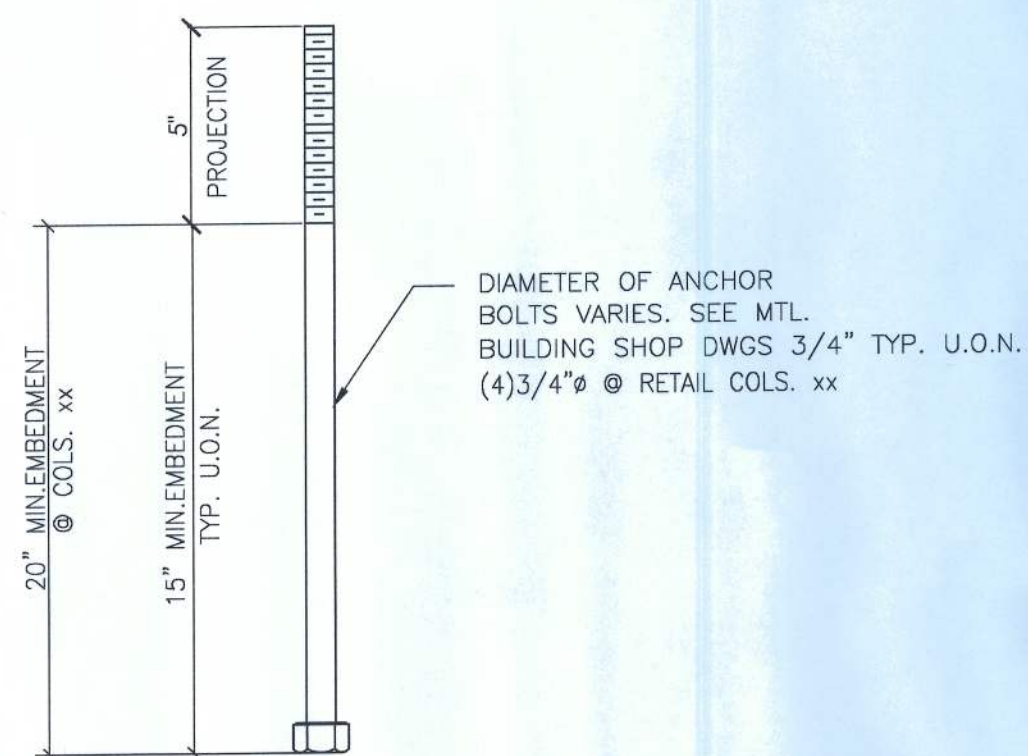

GINA M. HILL P.E.
52225



TYP. FTG. CORNER REINF.

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

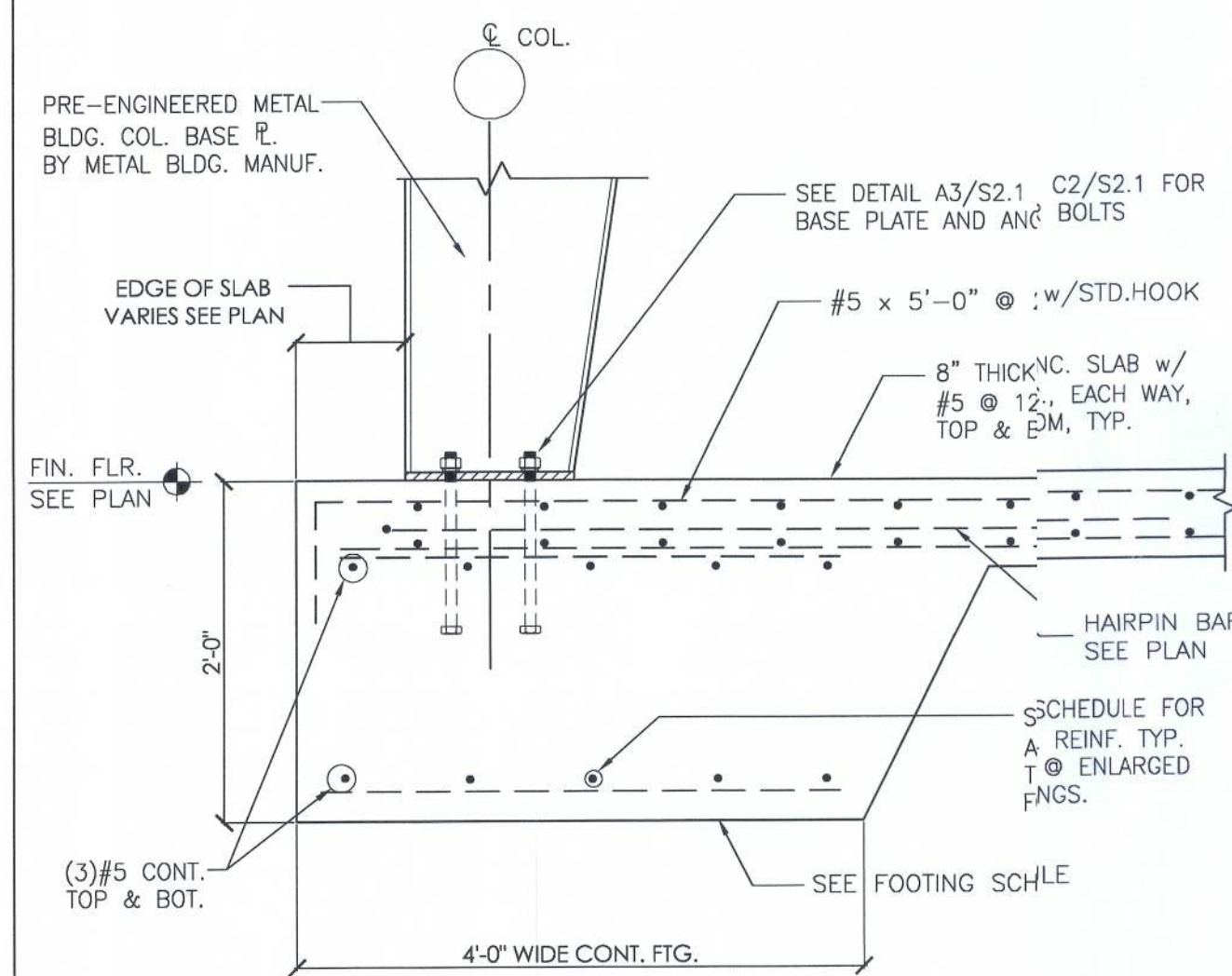
(C1)



ANCHOR BOLT EMBED. DETAIL

SCALE: N.T.S.

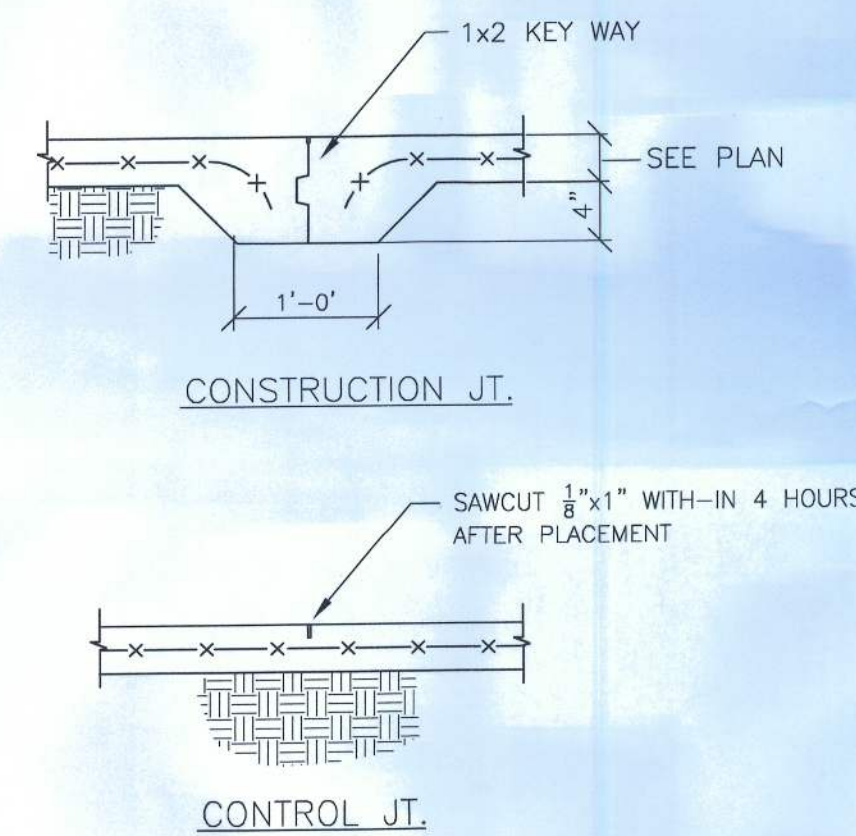
(C2)



SLAB EDGE AT EXT. WALL

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

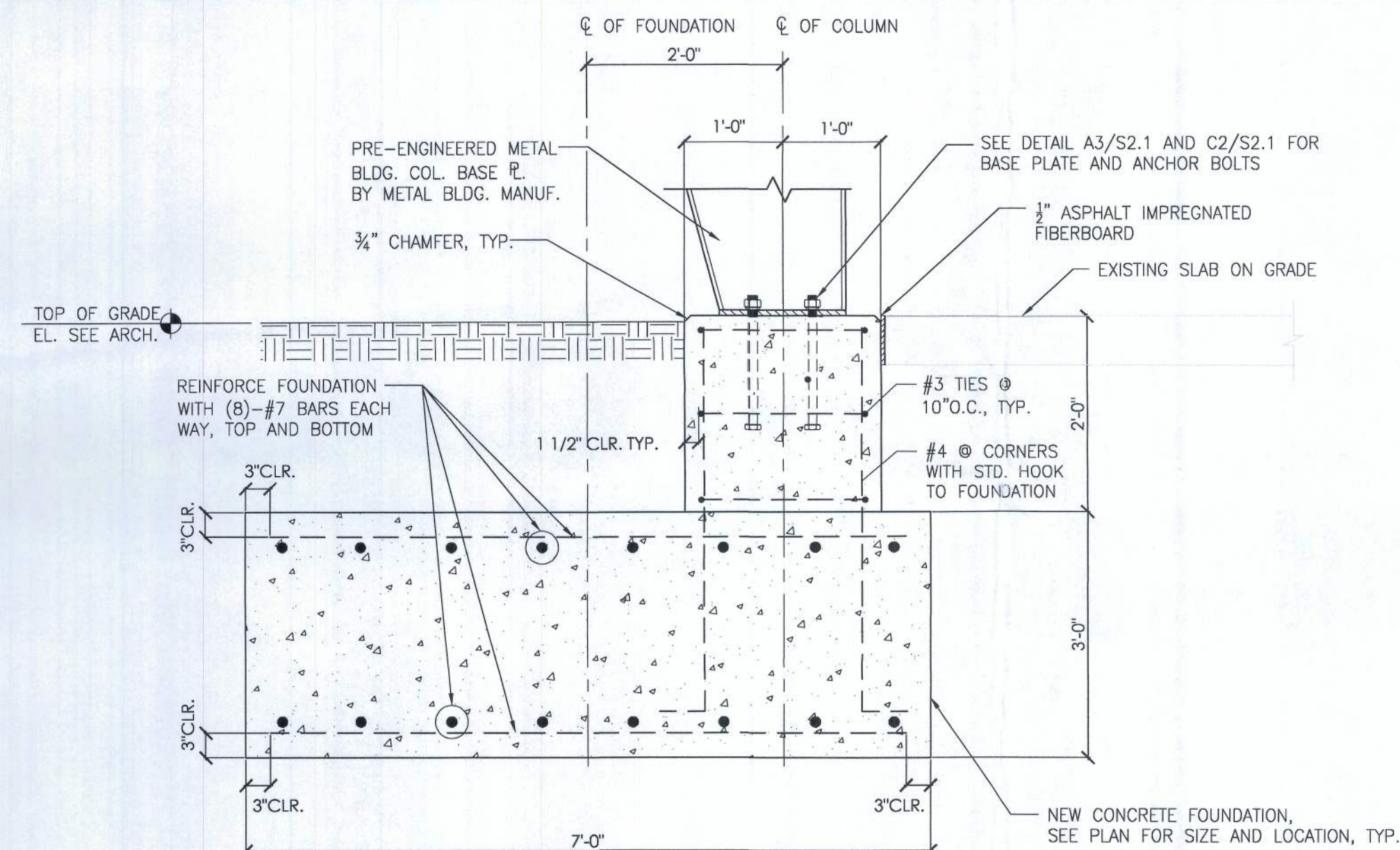
(B1)



SLAB JOINT DETAILS

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

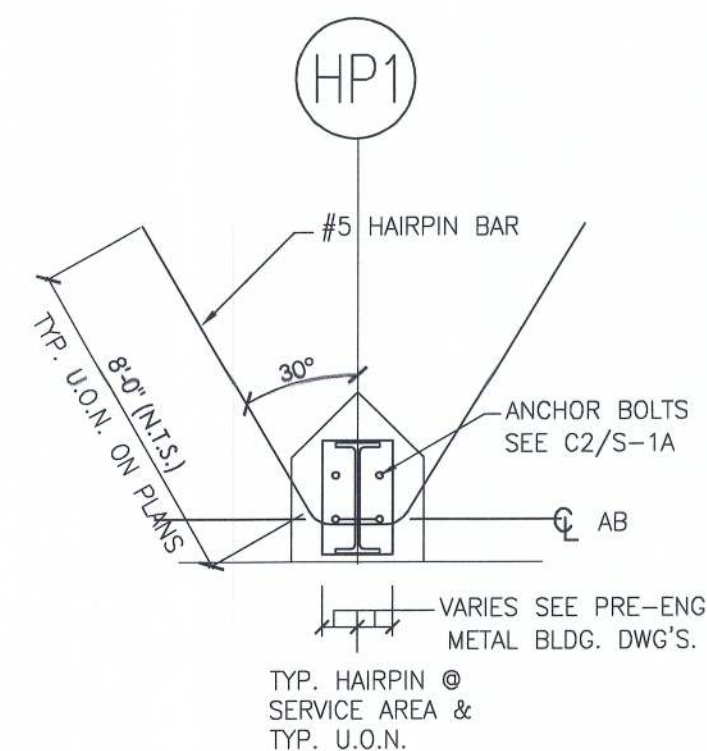
(B2)



SECTION AT EXIST. SLAB

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

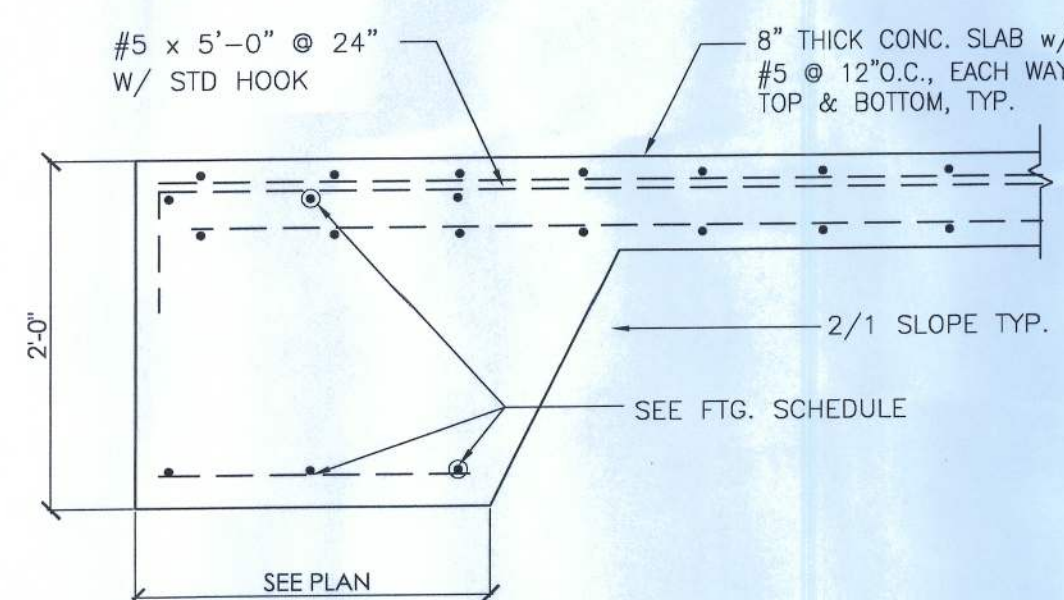
(B4)



HAIRPIN BAR DETAIL

SCALE: N.T.S.

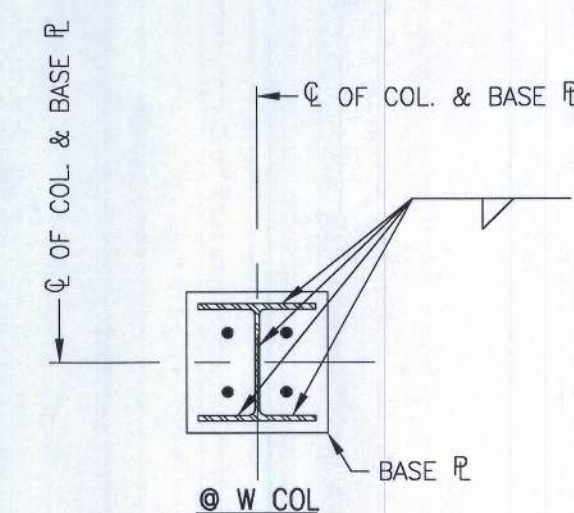
(A1)



SLAB EDGE AT EXT. WALL

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

(A2)



BASE PLATE & ANCHOR BOLT

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

(A3)

GINA M HILL P.E.
52225

CHARLES R. WALKER, AIA
741 PALMERA DRIVE EAST
PONTE VEDRA BEACH, FL 32082
904.888.1584

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OF REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION UNDER THE LAWS OF THE STATE OF FLORIDA.

CHARLES R. WALKER AR0006658

NEW METAL BUILDING STRUCTURE FOR
RINGPOWER CORPORATION
CANNON CREEK - I-75 AND CR 47
COLUMBIA COUNTY, FLORIDA

Contract Stage
CONSTRUCTION DRAWINGS

Revisions:

Drawn By:
Checked By:

Sheet Title:
FOUNDATION
SECTIONS AND
DETAILS

Sheet No:

S2.1

Last Plot Date: 04/04/2011