

NEW METAL BUILDING SPRINGVILLE HATCHERY

1000 NORTH MAIN STREET
SPRINGVILLE, UTAH 84663

MAY 15, 2006



STATE OF UTAH
DEPARTMENT OF ADMINISTRATIVE SERVICES
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT

4110 State Office Building / Salt Lake City, Utah 84114 / 801.538.3018 / www.dfc.state.ut.us

DFCM PROJECT NO. 06074500

SCOTT P. EVANS - ARCHITECT AND ASSOCIATES P.C.

ARCHITECT (BOB LEONARD) (801) 298-1368
108 WEST CENTER STREET BOUNTIFUL, UTAH

BHB ENGINEERING

STRUCTURAL ENGINEER (CHRIS HOFHEINS) (801) 355-5656
244 WEST 300 NORTH SALT LAKE CITY, UTAH

VBFA CONSULTING ENGINEERS

MECHANICAL ENGINEER (RICH REEDER) (801) 530-3148
330 SOUTH 300 EAST SALT LAKE CITY, UTAH

THOMAS & KOLKMAN ENGINEERING

ELECTRICAL ENGINEER (BILL GRANDY) (801) 484-8161
64 WEST 1700 SOUTH SALT LAKE CITY, UTAH



CONSULTANTS

STRUCTURAL ENGINEER:
BHB ENGINEERING
MECHANICAL ENGINEER:
VBFA ENGINEERS
ELECTRICAL ENGINEER:
THOMAS & KOLKMAN

NEW METAL BUILDING
SPRINGVILLE HATCHERY
1000 NORTH MAIN STREET
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MARK	DATE	DESCRIPTION
	5/15/06	CONSTRUCTION DOCUMENTS

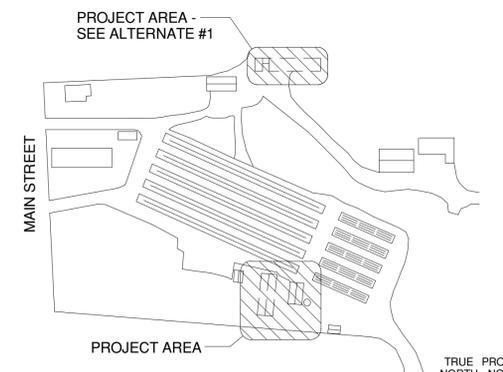
OWNER PROJECT # 06074500
ARCH. PROJECT # 06-19
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SHEET TITLE
GENERAL INFORMATION

GI-002

INDEX OF DRAWINGS

SHT. #	DRAWING TITLE
GI-001	TITLE SHEET
GI-002	GENERAL INFORMATION
SJ101	GENERAL STRUCTURAL NOTES
SB101	FOOTING AND FOUNDATION PLAN
SB501	FOOTING AND FOUNDATION DETAILS
SB601	STRUCTURAL SCHEDULES
AS-101	SITE PLAN & DEMOLITION PLAN
AE-101	FLOOR PLAN
AE-102	REFLECTED CEILING PLAN
AE-103	ROOF PLAN
AE-201	EXTERIOR ELEVATIONS
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AE-301	SECTIONS
AE-501	DETAILS
AE-502	DETAILS
AE-601	DOOR SCHEDULE
M-000	SYMBOLS & LEGEND
M-101	MECHANICAL FLOOR PLAN
ES101	ELECTRICAL SITE PLAN AND NOTES
E-101	ELECTRICAL PLAN AND NOTES
E-601	SYMBOL LIST, SCHEDULES AND RISER DIAGRAMS



A5 KEY PLAN
1" = 160'-0"

CODE ANALYSIS

APPLICABLE CODES

Code	Year	Code	Year
International Building Code	2003	National Electrical Code	2006
International Mechanical Code	2003	Uniform Code for Building Conservation	
International Plumbing Code	2003	ADA Accessibility Guidelines	2003
International Fire Code	2003		
International Energy Conservation Code			

A. Occupancy and Group: S-2

Change in Use: Yes No No X Mixed Occupancy: Yes No No X
Special Use and Occupancy (e.g. High Rise, Covered Mall):

B. Seismic Design Category: D Design Wind Speed: 90 mph

C. Type of Construction (circle one):
I/A I/B II/A II/B III/A III/B IV/HT V/A V/B

D. Fire Resistance Rating Requirements for the Exterior Walls based on the fire separation distance (in hours):
North: N South: N East: N West: N

E. Mixed Occupancies: _____ Nonseparated Uses: _____

F. Sprinklers:
Required: NR Provided: --- Type of Sprinkler System: ---

G. Number of Stories: 1 Building Height: 14

H. Actual Area per Floor (square feet): 4808

I. Tabular Area: 26,000 S.F.

J. Area Modifications: **NOT REQUIRED**

$$A_a = A_1 + \left[\frac{A_2 I_2}{100} \right] + \left[\frac{A_3 I_3}{100} \right] \quad I_1 = 100 \left[\frac{F}{P} - 0.25 \right] \frac{W}{30}$$

b) Sum of the Ratio Calculations for Mixed Occupancies:
Actual Area / Allowable Area ≤ 1

c) Total Allowable Area for:
1) One Story: 26,000
2) Two Story: A₂(2) N.A.
3) Three Story: A₃(3) N.A.

d) Unlimited Area Building: Yes _____ No X Code Section: _____

K. Fire Resistance Rating Requirements for Building Elements (hours).

Element	Hours	Assembly Listing	Element	Hours	Assembly Listing
Exterior Bearing Walls	0	N.A.	Floors - Ceiling Floors	0	N.A.
Interior Bearing Walls	0	N.A.	Roofs - Ceiling Roofs	0	N.A.
Exterior Non-Bearing Walls	0	N.A.	Exterior Doors and Windows	0	N.A.
Structural Frame	0	N.A.	Shaft Enclosures	N.A.	N.A.
Partitions - Permanent	0	N.A.	Fire Walls	N.A.	N.A.
Fire Barriers	0	N.A.	Fire Partitions	N.A.	N.A.
			Smoke Partitions	N.A.	N.A.

L. Design Occupant Load: 6
Exit Width Required: 12" Exit Width Provided: 108"

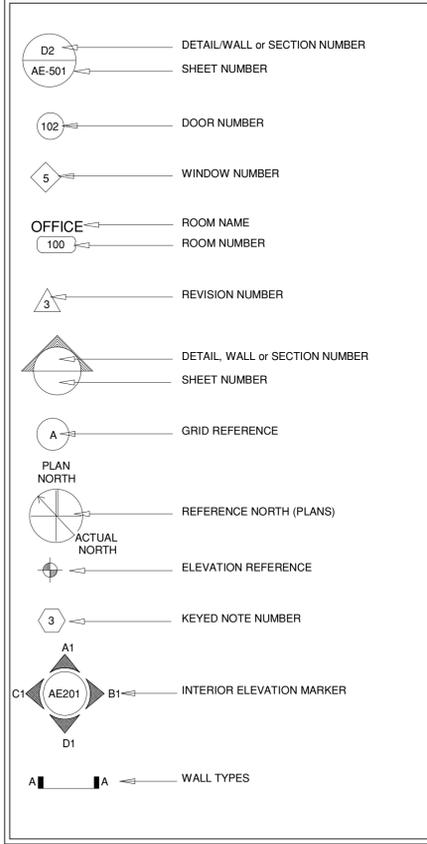
M. Minimum Number of Required Plumbing Facilities: **(THIS BUILDING IS NOT OCCUPIED)**

a) Water Closets - Required (m) 0 (f) 0 Provided (m) 0 (f) 0
b) Lavatories - Required (m) 0 (f) 0 Provided (m) 0 (f) 0
c) Bath Tubs or Showers: 0
d) Drinking Fountains: 0 Service Sinks: 0

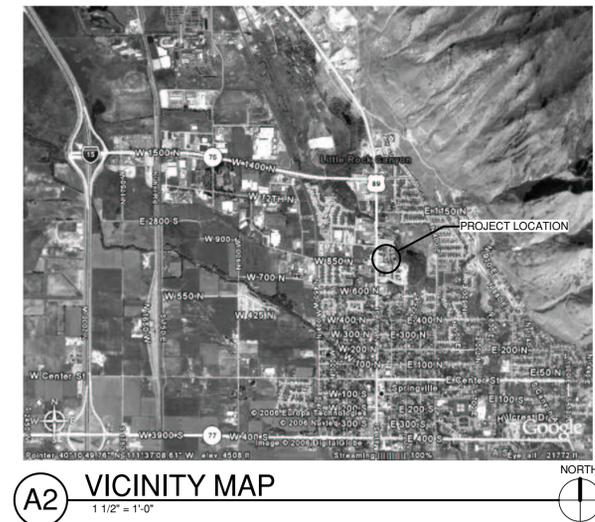
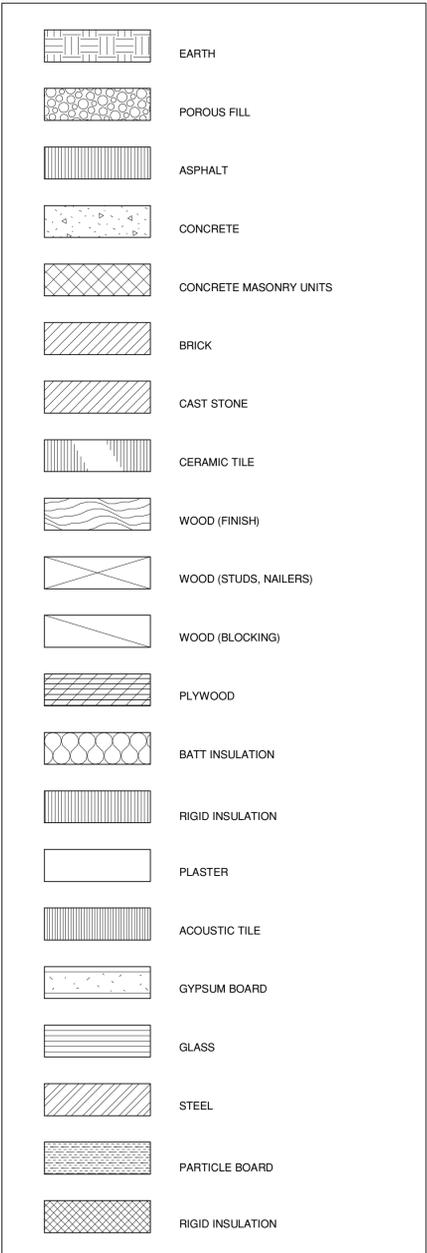
FOOTNOTES:

- In case of conflict with the U.S. Department of Justice Federal Registers Parts I through V - ADA Guidelines and specific reference to the International Building Code Accessibility Chapters, the more restrictive requirement shall govern.
- Additional Code Information shall be provided at the discretion of the Building Official for Complex Buildings. Including, but not limited to:
 - High Rise Requirements.
 - Atriums.
 - Performance Based Criteria.
 - Means of Egress Analysis.
 - Fire Assembly Locator Sheet.
 - Exterior and Interior Accessibility Route.
 - Fire Stopping, Including Tested Design Number.

ARCHITECTURAL LEGENDS



MATERIAL DESIGNATIONS



A2 VICINITY MAP
1 1/2" = 1'-0"

ABBREVIATIONS

ABOVE FINISHED FLOOR	AFF
ALTERNATE	ALT.
ALUMINUM	AL.
AMERICAN CONCRETE INSTITUTE	ACI
AMERICAN NATIONAL STANDARDS INSTITUTE	ANSI
AMERICAN SOCIETY OF TESTING & MATERIALS	ASTM
AMERICAN WELDING SOCIETY	AWS
ANCHOR BOLT	A.B.
AND	&
ANGLE	L
APPROVED	APPD.
APPROXIMATE	APPROX.
ARCHITECT OR ARCHITECTURAL	ARCH.
ASSEMBLY	ASB.
AVERAGE	AVG.
AT	@
BEAM	BM
BLOCKING	BLKG.
BOTTOM	BOT.
BRACKET	BRKT.
BUILDING	BLDG.
CALCIUM SILICATE MASONRY UNIT	CSMU
CATCH BASIN	C.B.
CENTER	CTR.
CENTERLINE	CL
CENTER TO CENTER	C TO C
CHANNEL	
CLEANOUT	C.O.
COLUMN	COL.
COMPOSITION	COMP.
CONCRETE MASONRY UNIT	C.M.U.
CONCRETE REINFORCING STEEL INSTITUTE	CRSI
CONSTRUCTION	CONST.
CONTINUOUS	CONT.
COUNTERSINK	CSK.
CUBIC	CU.
CUBIC FOOT	CU. FT.
CUBIC FEET PER MINUTE	CFM
CUBIC INCH	CU. IN.
CUBIC YARD	CU. YD.
DEPARTMENT	DEPT.
DIAGONAL	DIAG.
DIAMETER	Ø
DIMENSION	DIM.
DOOR	DR
DOUBLE	DBL.
DRAWING	DWG.
ELECTRICAL	ELEC.
ELECTRIC WATER COOLER	EWK
ELEVATION	EL.
EQUIPMENT	EQUIP.
EXPANSION JOINT	EXP. JT.
EXTERIOR INSULATION FINISH SYSTEM	EIFS
FAR SIDE	F.S.
FEET OR FOOT	FT. or'
FIELD VERIFY	F.V.
FINISH FLOOR	F.F.
FIRE EXTINGUISHER CABINET	F.E.C.
FIRE HOSE CABINET	F.H.C.
FIRE HYDRANT	F.H.
FIRE RETARDANT TREATED	FRT
FLOOR DRAIN	FD
FLUORESCENT	FLUOR.
FOOTING	FTG.
FOUNDATION	FND.
GALVANIZED	GALV.
GAGE OR GAUGE	GA.
GLAZED STRUCTURAL UNIT	GSU
GYP. BOARD	GYP. BD.
HARDWARE	HDW.
HEIGHT	HGT.
HIGH STRENGTH BOLT	HSE
HORIZONTAL	HORIZ.
INCH	"
INFORMATION	INFO.
INSIDE DIAMETER	I.D.
INTERMEDIATE	INTER.
KIP (1,000 LB.)	K
LABORATORY	LAB.
MANUFACTURER	MFG.
MAXIMUM	MAX.
MECHANICAL	MECH.
MINIMUM	MIN.
MISCELLANEOUS	MISC.
NATIONAL BOARD OF FIRE UNDERWRITERS	NBFU
NATIONAL ELECTRICAL CODE	NEC
NATIONAL ELECTRICAL MANUFACTURERS ASSOC.	NEMA
NEAR SIDE	N.S.
NOT IN CONTRACT	N.I.C.
NOT TO SCALE	NTS
NUMBER	NO. or #
ON CENTER	O.C.
OPENING	OPNG.
OPPOSITE	OPP.
OUTSIDE DIAMETER	O.D.
PENNY	d
PER	/
PERPENDICULAR	PERP.
PHASE	∅
POUND	LB. or #
PREFABRICATED	PREFAB.
PROPERTY LINE	P/L
RADIUS	R
REINFORCING	REINF.
REQUIRED	REQ'D.
REVISION	REV.
ROD & SHELF	R&S
ROOF DRAIN	RD
ROOM	RM
ROUND	RD. or ∅
SHEET	SHT.
SIMILAR	SIM.
SOUND ATTENUATION BLANKET	SAB
SPECIFICATION	SPEC.
SQUARE	SQ. or
SYMMETRICAL	SYM.
SYNTHETIC STUCCO EXTERIOR INSULATION SYSTEM	SSEIS
TOP OF MASONRY	T.O.M.
TOP BACK OF CURB	T.B.C.
TOP OF LANDSCAPING	T.L.
TOP OF WALK	T.W.
TOP OF STEEL	TOS
TOP OF WALL	TOW
TYPICAL	TYP.
UNLESS NOTED OTHERWISE	U.N.O.
VERTICAL	VERT.
VINYL WALL COVERING	VWC.
WELDED WIRE FABRIC	WWF
WITH	W/
WITHOUT	W/O



PROFESSIONAL SEAL

CONSULTANTS

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MECHANICAL CONTRACTOR:
VBFA ENGINEERS
ELECTRICAL CONTRACTOR:
THOMAS AND KOLKMAN

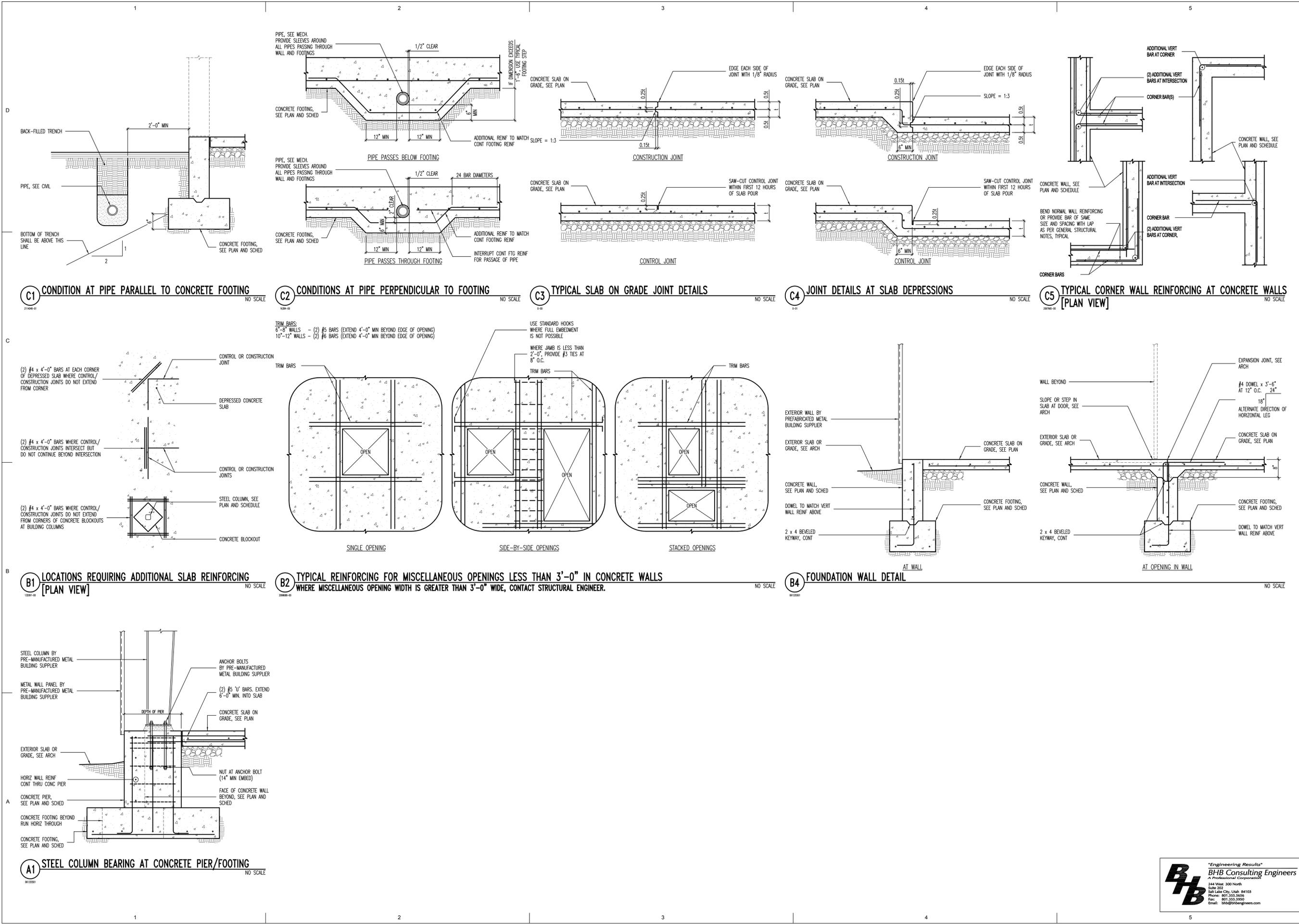
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MARK	DATE	DESCRIPTION

OWNER PROJECT #	06074500
ARCH. PROJECT #	06-19
CAD DRAWING FILE:	06133_SB501.DWG
DRAWN BY:	NM
CHECKED BY:	CH
DESIGNED BY:	CH
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SHEET TITLE
FOOTING AND
FOUNDATION
DETAILS

SB501



C1 CONDITION AT PIPE PARALLEL TO CONCRETE FOOTING NO SCALE
C2 CONDITIONS AT PIPE PERPENDICULAR TO FOOTING NO SCALE
C3 TYPICAL SLAB ON GRADE JOINT DETAILS NO SCALE
C4 JOINT DETAILS AT SLAB DEPRESSIONS NO SCALE
C5 TYPICAL CORNER WALL REINFORCING AT CONCRETE WALLS [PLAN VIEW] NO SCALE

B1 LOCATIONS REQUIRING ADDITIONAL SLAB REINFORCING [PLAN VIEW] NO SCALE
B2 TYPICAL REINFORCING FOR MISCELLANEOUS OPENINGS LESS THAN 3'-0" IN CONCRETE WALLS WHERE MISCELLANEOUS OPENING WIDTH IS GREATER THAN 3'-0" WIDE, CONTACT STRUCTURAL ENGINEER. NO SCALE
B4 FOUNDATION WALL DETAIL NO SCALE

A1 STEEL COLUMN BEARING AT CONCRETE PIER/FOOTING NO SCALE

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PROFESSIONAL SEAL

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MARK	WIDTH	LENGTH	DEPTH	REINFORCING CROSSWISE				REINFORCING LENGTHWISE				COMMENTS
				No.	SIZE	LENGTH	SPACING	No.	SIZE	LENGTH	SPACING	
FC1.5	1'-6"	CONT	12"	-	-	-	-	2	#4	CONT	EQ	
FS2.5	2'-6"	2'-6"	12"	3	#5	2'-0"	EQ	3	#5	2'-0"	EQ	
FS3.0	3'-0"	3'-0"	12"	3	#5	2'-6"	EQ	3	#5	2'-6"	EQ	
FS4.5	4'-6"	4'-6"	12"	4	#5	4'-0"	EQ	4	#5	4'-0"	EQ	

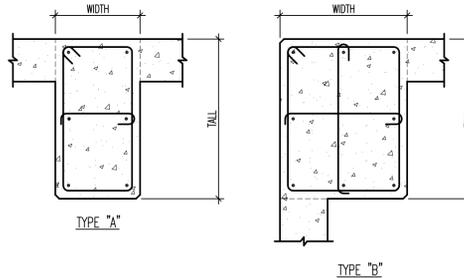
- CONCRETE FOOTING NOTES:
- PLACE ALL FOOTING REINFORCING IN THE BOTTOM OF THE FOOTING WITH 3" CLEAR CONCRETE COVER (UNO).
 - TOP REINFORCING, WHERE OCCURS, SHALL BE PLACED IN THE TOP OF THE FOOTING WITH 2" MINIMUM CONCRETE COVER.
 - IF FOOTINGS ARE EARTH-FORMED, FOOTINGS SHALL BE 6" LONGER AND WIDER THAN SCHEDULED.
 - SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.
 - SOME SCHEDULED FOOTINGS MAY NOT BE USED, SEE FOOTING AND FOUNDATION PLAN FOR FOOTING MARKS.

C2 CONCRETE FOOTING SCHEDULE

NO SCALE

MARK	PIER SIZE	REINFORCING		TYPE	COMMENTS
		VERTICAL	TIES		
CP-1	12" x 23"	(6) #5	(2) #3 AT 8" O.C.	A	
CP-2	18" x 23"	(6) #5	(3) #3 AT 8" O.C.	B	

- CONCRETE PIER NOTES:
- INSTALL (3) SETS OF TIES AT 3" O.C. AT TOP OF ALL PIERS (UNO).
 - RUN HORIZONTAL CONCRETE WALL REINFORCING CONTINUOUS THROUGH PIER WHEN PIER IS POURED MONOLITHICALLY WITH CONCRETE WALL.
 - SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.
 - CONTRACTOR TO VERIFY SCHEDULED SIZE OF CONCRETE PIER IS LARGE ENOUGH FOR STEEL BASE PLATE.



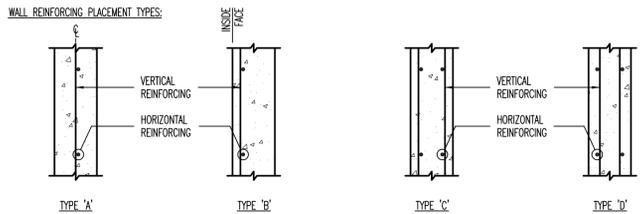
C3 CONCRETE PIER SCHEDULE

NO SCALE

MARK	THICKNESS	REINFORCING			WALL TYPE	COMMENTS
		VERTICAL	HORIZONTAL	TOP AND BOTTOM		
OW-1	8"	#4 AT 18" O.C.	#4 AT 12" O.C.	(1) #4	A	

- CONCRETE FOUNDATION WALL NOTES:
- SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.
 - CONCRETE FOUNDATION WALLS NOT DESIGNATED ON PLANS SHALL BE REINFORCED AS FOLLOWS:
- | THICKNESS | VERTICAL REINFORCING | HORIZONTAL REINFORCING |
|-----------|--------------------------|--------------------------|
| 6" | #4 BARS AT 18" O.C. | #4 BARS AT 16" O.C. |
| 8" | #4 BARS AT 18" O.C. | #4 BARS AT 12" O.C. |
| 10" | #4 BARS AT 18" O.C. | #5 BARS AT 15" O.C. |
| 12" | #4 BARS AT 18" O.C. E.F. | #4 BARS AT 16" O.C. E.F. |

ABBREVIATIONS:
E.F. EACH FACE
I.F. INSIDE FACE
O.F. OUTSIDE FACE



A2 CONCRETE WALL SCHEDULE

NO SCALE

BAR SIZE	f'c = 3000psi								f'c = 4000psi								f'c = 5000psi								f'c = 6000psi							
	REGULAR				TOP				REGULAR				TOP				REGULAR				TOP				REGULAR				TOP			
	CLASS	A	B	CLASS	A	B	CLASS	A	B	CLASS	A	B	CLASS	A	B	CLASS	A	B	CLASS	A	B	CLASS	A	B								
#3	13"	17"	17"	21"	12"	16"	16"	21"	12"	16"	16"	21"	12"	16"	16"	21"	12"	16"	16"	21"	12"	16"	16"	21"								
#4	17"	22"	22"	28"	15"	19"	19"	25"	13"	17"	17"	22"	12"	16"	16"	21"	12"	16"	16"	21"	12"	16"	16"	21"								
#5	21"	27"	27"	35"	18"	24"	24"	31"	16"	21"	21"	27"	15"	19"	19"	25"	13"	17"	17"	22"	12"	16"	16"	21"								
#6	27"	36"	36"	46"	24"	31"	31"	40"	21"	28"	28"	36"	20"	25"	25"	33"	18"	24"	24"	31"	16"	21"	21"	27"								
#7	37"	48"	48"	63"	32"	42"	42"	54"	29"	38"	38"	49"	27"	34"	34"	44"	24"	31"	31"	40"	21"	28"	28"	36"								
#8	49"	64"	64"	82"	42"	55"	55"	71"	38"	49"	49"	64"	35"	45"	45"	58"	32"	42"	42"	54"	29"	38"	38"	49"								
#9	62"	80"	80"	104"	54"	70"	70"	90"	48"	62"	62"	81"	44"	57"	57"	74"	42"	55"	55"	71"	38"	49"	49"	64"								
#10	78"	102"	102"	132"	68"	88"	88"	115"	61"	79"	79"	102"	56"	72"	72"	94"	54"	70"	70"	90"	48"	62"	62"	81"								
#11	96"	125"	125"	162"	83"	108"	108"	141"	76"	97"	97"	126"	68"	88"	88"	115"	68"	88"	88"	115"	61"	79"	79"	102"								

- CONCRETE REINFORCING BAR LAP SPICE NOTES:
- THIS SCHEDULE SHALL BE USED FOR ALL BAR SPLICES IN CONCRETE WALLS, UNLESS NOTED OTHERWISE.
 - CLASS 'A' SPLICES MAY BE USED ONLY IN CASES WHERE 50% OR LESS OF THE BARS ARE SPLICED WITHIN THE LAP SPICE LENGTH.
 - CLASS 'B' SPLICES SHALL BE USED FOR ALL SPLICES UNLESS THE REQUIREMENTS OF NOTE NO. 2 ABOVE ARE MET.
 - TIES AND STIRRUPS SHALL NOT BE SPLICED.
 - SPLICES FOR BUNDLED BARS:
 - FOR BUNDLED BARS OF THREE OR LESS, LAP SPICE LENGTHS SHALL BE MULTIPLIED BY 1.2.
 - FOR BUNDLED BARS OF FOUR OR MORE, LAP SPICE LENGTHS SHALL BE MULTIPLIED BY 1.33.
 - INDIVIDUAL BAR SPLICES WITHIN A BUNDLE SHALL NOT OVERLAP.
 - ENTIRE BUNDLES SHALL NOT BE LAP SPLICED.
 - FOR ALL LIGHTWEIGHT CONCRETE, LAP LENGTHS SHALL BE MULTIPLIED BY 1.3.
 - FOR ALL EPOXY COATED BARS, LAP LENGTHS SHALL BE MULTIPLIED BY 1.3 FOR TOP BARS AND 1.5 FOR REGULAR BARS.
 - TOP BARS ARE CLASSIFIED AS HORIZONTAL BARS WHERE 12", OR MORE, OF FRESH CONCRETE IS CAST BELOW THE REINFORCING BAR.
 - SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

A3 CONCRETE REINFORCING BAR LAP SPICE SCHEDULE

NO SCALE

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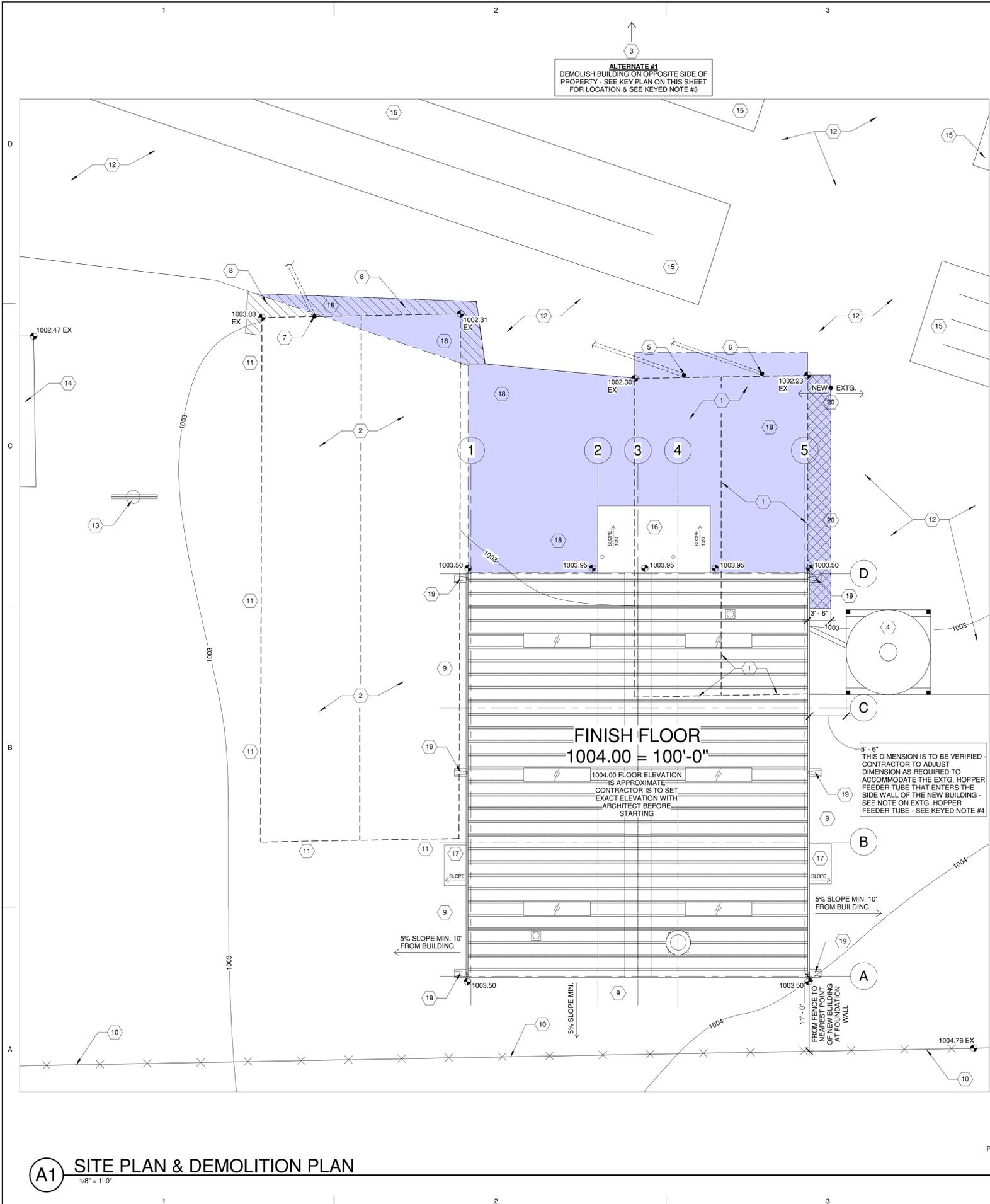
SHEET TITLE

STRUCTURAL
SCHEDULES

SB601



"Engineering Results"
BHB Consulting Engineers
A Professional Corporation
344 West 300 North
Suite 202
Salt Lake City, Utah 84103
Phone: 801 355 5656
Fax: 801 355 2500
Email: bhb@bhbengineers.com



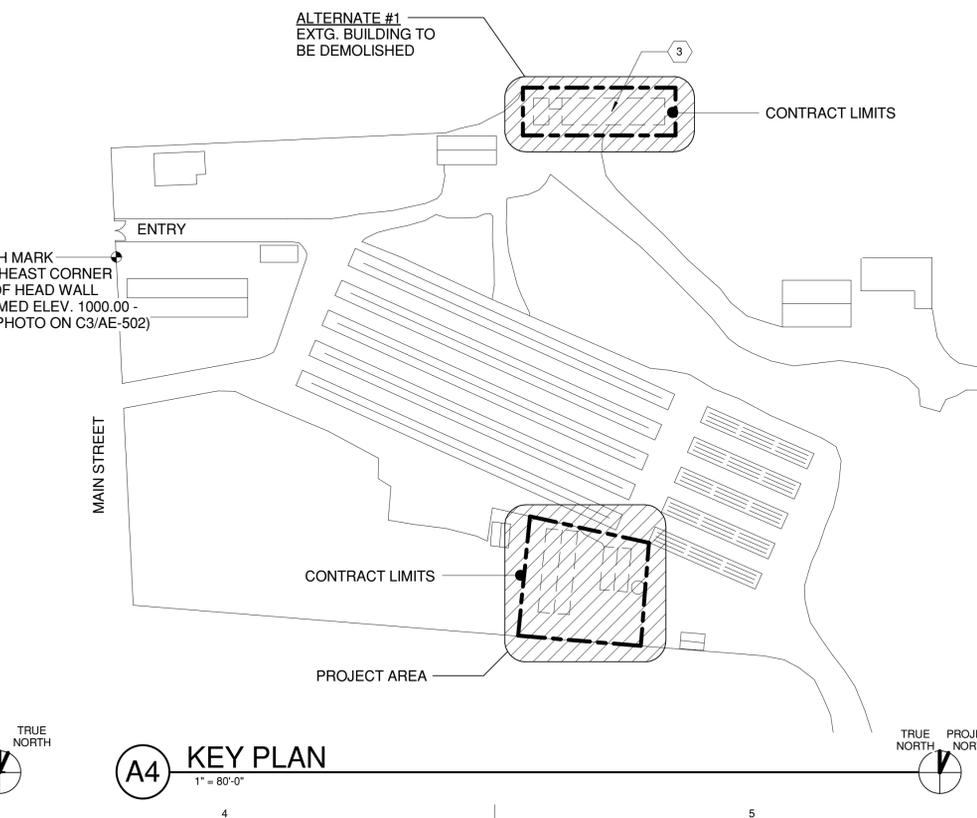
ALTERNATE #1
DEMOLISH BUILDING ON OPPOSITE SIDE OF PROPERTY - SEE KEY PLAN ON THIS SHEET FOR LOCATION & SEE KEYED NOTE #3

KEYED NOTES

- 1 **EXISTING BUILDING #1 (SOUTHEAST)** - SEE PHOTOS ON C1/AE-502 DEMOLISH ALL OF EXISTING WOOD STRUCTURE WITH SECOND LEVEL ATTIC STORAGE. STRUCTURE HAS CONCRETE FLOOR SLAB ON GRADE, ON TWO LEVELS WITH SMALL RAMP. STRUCTURE HAS CONCRETE FOOTING & FOUNDATION. REMOVE ALL PARTS OF STRUCTURE TO BOTTOM OF FOOTINGS AS A MINIMUM DEPTH. SALVAGE THE EXISTING FEEDER SCALE AND CONTROLS IN THE BUILDING AND RE-INSTALL IN NEW STRUCTURE AS SHOWN ON FLOOR PLAN. CAP ALL EXISTING WATER AND NATURAL GAS LINES BEFORE DEMOLITION AND EXTEND LINES TO NEW BUILDING AS REQUIRED BY DRAWINGS. SEE DRAWINGS FOR LOCATION OF BUILDING AND UTILITIES AND SITE DEMOLITION. COORDINATE LOCATION OF ALL UTILITIES EXISTING ON SITE WITH THE OWNER AND BLUE STAKES, CALL BEFORE ANY DIGGING OR DEMOLITION IS STARTED.
- 2 **EXISTING BUILDING #2 (SOUTHWEST)** - SEE PHOTOS ON B1/AE-502 DEMOLISH ALL OF EXISTING WOOD STRUCTURE. STRUCTURE HAS CONCRETE FLOOR SLAB ON GRADE WITH CONCRETE FOOTING & FOUNDATION. REMOVE ALL PARTS OF STRUCTURE TO BOTTOM OF FOOTINGS AS A MINIMUM DEPTH. CONTRACTOR TO PARTIALLY REMOVE & CAP ALL EXISTING WATER LINES AND NATURAL GAS LINES BEFORE DEMOLITION. SEE DRAWINGS FOR LOCATION. COORDINATE LOCATION OF ALL UTILITIES EXISTING ON SITE WITH THE OWNER AND BLUE STAKES, CALL BEFORE ANY DIGGING OR DEMOLITION IS STARTED.
- 3 **EXISTING BUILDING #3 (NORTH)** - **ALTERNATE #1** SEE PHOTOS ON B3/AE-502 DEMOLISH ALL OF EXISTING WOOD STRUCTURES. STRUCTURE HAS CONCRETE FLOOR SLAB ON GRADE. STRUCTURE HAS CONCRETE FOOTING & FOUNDATION. REMOVE ALL PARTS OF STRUCTURE TO BOTTOM OF FOOTINGS AS A MINIMUM DEPTH. CAP ALL EXISTING WATER AND NATURAL GAS LINES BEFORE DEMOLITION AS REQUIRED AND DISCONNECT ALL ELECTRICAL SERVICE AND OTHER UTILITIES. REMOVE ALL TREES AND SHRUBS WITHIN 15 FT PERIMETER OF BUILDING. SEE DRAWINGS FOR LOCATION OF BUILDING. COORDINATE LOCATION OF ALL UTILITIES EXISTING ON SITE WITH THE OWNER AND BLUE STAKES, CALL BEFORE ANY DIGGING OR DEMOLITION IS STARTED. EXTG. CHAIN LINK FENCE AROUND BUILDING TO REMAIN PROTECT FROM DAMAGE DURING CONSTRUCTION - REGRADE FOR LANDSCAPING BY OWNER COORD. WITH OWNER.
- 4 EXTG. FEED HOPPER TO REMAIN - REMOVE SECTION OF EXTG. FEEDER TUBE FROM HOPPER TO ALLOW FOR NEW CONSTRUCTION TO TAKE PLACE - REINSTALL ALL EXTG. FEEDER TUBE THROUGH NEW METAL BUILDING PANEL WHEN BUILDING WALL PANEL IS BEING CONSTRUCTED - REINSTALL SIMILAR TO EXTG. BUILDING INSTALLATION SEE DETAIL A1/AE-502 - INSTALL THE SAME DISTANCE INTO THE INSIDE OF THE NEW BUILDING AS THE OLD BUILDING - MEASURE LAYOUT OF STRUCTURE AND NOTIFY THE ARCHITECT OF THE DIMENSION WORKED OUT BY CONTRACTOR TO ACCOMMODATE EXTG. FEEDER TUBE - NOTIFY ARCHITECT BEFORE CONSTRUCTION BEGINS FOR DIMENSION APPROVAL.
- 5 EXTG. GAS LINE TO BE CAPED BACK FROM EXTG. BUILDING MIN. OF 8'-0" SO DEMOLITION OF EXTG. BUILDING CAN TAKE PLACE - STAKE & RED FLAG UNDERGROUND CAPED LINES - EXTEND GAS LINE TO BUILDING - SEE MECHANICAL DRAWINGS.
- 6 EXTG. WATER LINE TO BE CAPED BACK FROM EXTG. BUILDING MIN. OF 8'-0" SO DEMOLITION OF EXTG. BUILDING CAN TAKE PLACE - STAKE & RED FLAG UNDERGROUND CAPED LINES - EXTEND GAS LINE TO BUILDING - SEE MECHANICAL DRAWINGS.
- 7 EXTG. GAS LINE TO BE CAPED BACK FROM EXTG. BUILDING TO EDGE OF CONCRETE SO DEMOLISH OF EXTG. BUILDING CAN TAKE PLACE - STAKE & RED FLAG UNDERGROUND CAPED LINES.
- 8 REMOVE EXTG. CONCRETE APRON AROUND BUILDING WHERE SHOWN.
- 9 REMOVE TOPSOIL AROUND & UNDER NEW BUILDINGS (12" DEEP) WITH 10' ON EAST, SOUTH AND WEST - TOPSOIL TO BE USED TO FILL IN AROUND NEW BUILDING AND COVER FOOTPRINT OF BUILDING ON THE WEST SIDE THAT WILL NOT BE REPLACED - MATCH WITH EXTG. GRADES AND SLOPES - EXCESS EXCAVATED SOILS SHALL BE DISPOSED OF ON THE PROPERTY - COORDINATE WITH THE OWNER.

KEYED NOTES

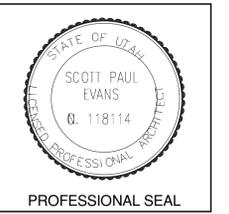
- 10 EXTG. FENCE & PROPERTY LINE PROTECT FENCE FROM DAMAGE DURING CONSTRUCTION.
- 11 EXTG. LANDSCAPING (BARE SOIL & WEEDS) - GRADE EXTG. SALVAGED TOPSOIL AROUND BUILDING TO BLEND IN AND MATCH EXTG. GRADES - EXCESS EXCAVATED SOILS SHALL BE DISPOSED OF ON THE PROPERTY - COORDINATE WITH THE OWNER.
- 12 EXTG. ASPHALT ROAD TO REMAIN PATCH AS REQUIRED.
- 13 EXTG. POWER/TELEPHONE POLE TO REMAIN PROTECT FROM DAMAGE DURING CONSTRUCTION.
- 14 EXTG. BUILDING TO REMAIN PROTECT FROM DAMAGE DURING CONSTRUCTION.
- 15 EXTG. RACEWAYS TO REMAIN PROTECT FROM DAMAGE DURING CONSTRUCTION.
- 16 5" CONCRETE APRON SLOPE AWAY FROM THE BUILDING REINFORCED WITH #4 @ 18 O.C. EACH WAY - PROVIDE CONTROL JOINTS AS SHOWN - PROVIDE 4" OF GRAVEL BASE UNDER SLAB.
- 17 4"x6" CONCRETE PAD - SEE DETAIL A3/AE-501 - PROVIDE 4" OF GRAVEL BASE UNDER SLAB.
- 18 NEW ASPHALT ROADWAY SHOWN WITH [Symbol]
- 19 PROVIDE CONCRETE SPLASH BLOCKS UNDER DOWN SPOUT TYP.
- 20 PROVIDE A CLEAN SAW CUT WHEN REMOVING EXTG. ASPHALT.



SCOTT P. EVANS
ARCHITECT
& ASSOCIATES P.C.

108 WEST CENTER STREET
BOUNTIFUL, UTAH 84010

PHONE (801) 298-1368
FAX (801) 298-2192
E-MAIL info@spe-architect.com
WEB: www.spe-architect.com



CONSULTANTS

STRUCTURAL ENGINEER:
BHB ENGINEERING

MECHANICAL ENGINEER:
VBFA ENGINEERS

ELECTRICAL ENGINEER:
THOMAS & KOLKMAN

NEW METAL BUILDING
SPRINGVILLE HATCHERY

1000 NORTH MAIN STREET
SPRINGVILLE, UTAH 84663

MARK	DATE	DESCRIPTION
	5/15/06	CONSTRUCTION DOCUMENTS

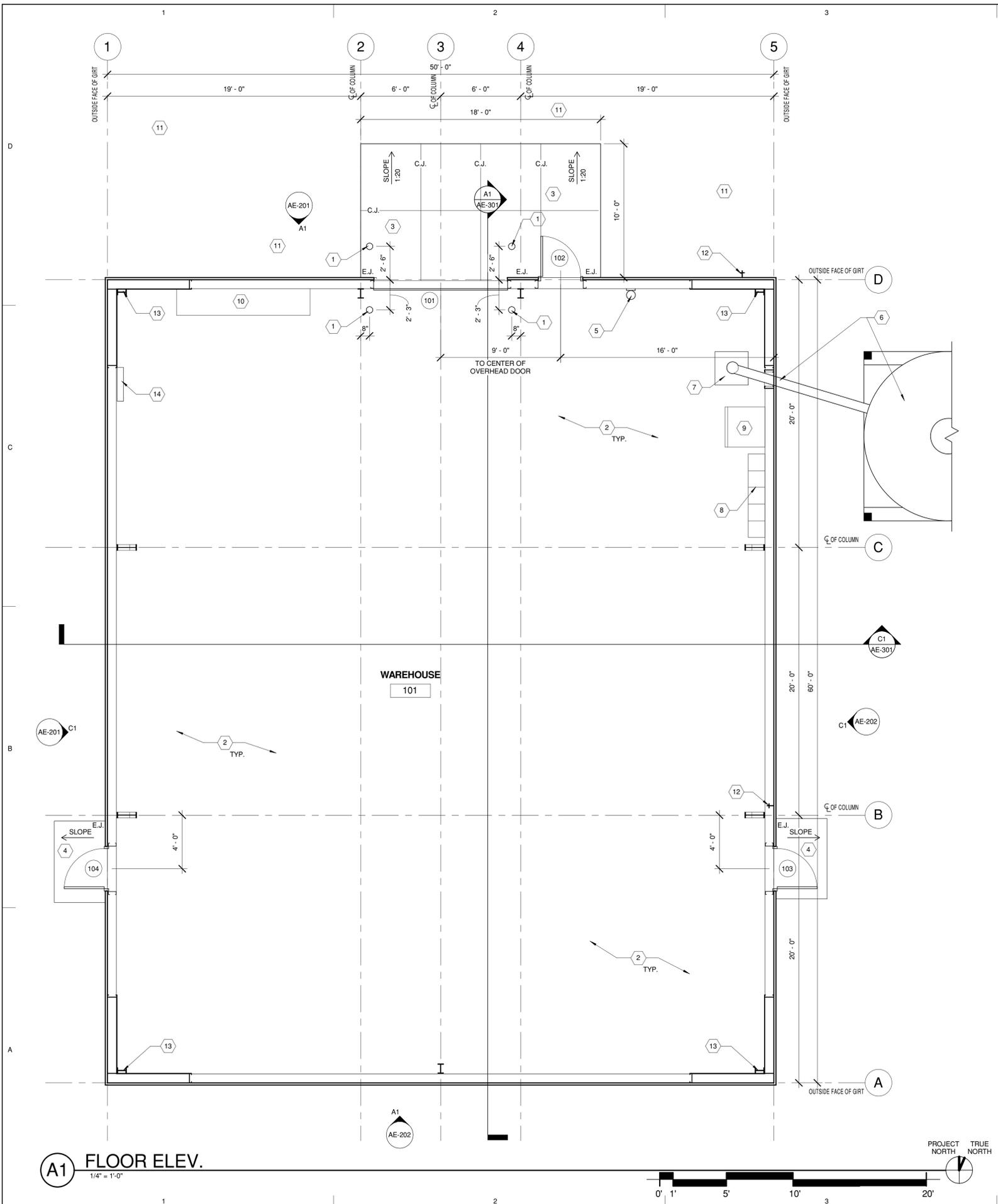
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SHEET TITLE
SITE PLAN & DEMOLITION PLAN

AS-101

A1 SITE PLAN & DEMOLITION PLAN
1/8" = 1'-0"

A4 KEY PLAN
1" = 80'-0"



A1 FLOOR ELEV.
1/4" = 1'-0"

KEYED NOTES

- 1 6" DIA. BOLLARD - SEE DETAIL A2/AE-502 - SEE SPEC. WITH HARD PLASTIC COVER.
- 2 SEALED CONCRETE FLOOR - SEE STRUCTURAL DRAWINGS - SEE STRUCTURAL DRAWINGS FOR THE CONTROL JOINT LAYOUT PATTERN - SEE SPEC.
- 3 5" CONCRETE APRON SLOPE AWAY FROM THE BUILDING REINFORCED WITH #4 @ 18 O.C. EACH WAY - PROVIDE CONTROL JOINTS AS SHOWN - PROVIDE 4" OF GRAVEL BASE UNDER SLAB.
- 4 4x6" CONCRETE PAD - SEE DETAIL A3/AE-501 - PROVIDE 4" OF GRAVEL BASE UNDER SLAB.
- 5 FIRE EXTINGUISHER MOUNTED TO STEEL GIRT.
- 6 EXTG. FEED HOPPER TO REMAIN - REMOVE SECTION OF EXTG. FEEDER TUBE FROM HOPPER TO ALLOW FOR NEW CONSTRUCTION TO TAKE PLACE - REINSTALL ALL EXTG. FEEDER TUBE THROUGH NEW METAL BUILDING PANEL WHEN BUILDING WALL PANEL IS BEING CONSTRUCTED - REINSTALL SIMILAR TO EXTG. BUILDING INSTALLATION SEE DETAIL A1/AE-502 - INSTALL THE SAME DISTANCE INTO THE INSIDE OF THE NEW BUILDING AS THE OLD BUILDING - MEASURE LAYOUT OF STRUCTURE AND NOTIFY THE ARCHITECT OF THE DIMENSION WORKED OUT BY CONTRACTOR TO ACCOMMODATE EXTG. FEEDER TUBE - NOTIFY ARCHITECT BEFORE CONSTRUCTION BEGINS FOR DIMENSION APPROVAL.
- 7 LOCATION OF EXTG. FEEDER SCALE. BY OWNER - PROVIDE THE NECESSARY POWER - SEE ELECTRICAL DRAWINGS.
- 8 EXTG. LOCKERS BY OWNER (NIC).
- 9 EXTG. REFRIGERATOR BY OWNER - PROVIDE THE NECESSARY POWER - SEE ELECTRICAL DRAWINGS.
- 10 SHELVEING BY OWNER (NIC).
- 11 NEW ASPHALT ROADWAY - SEE SITE PLAN AE-101 FOR EXTENT OF WORK.
- 12 HOSE BIBB - SEE PLUMBING DRAWINGS.
- 13 NON EXPANDABLE END WALL.
- 14 ELECTRICAL PANEL - SEE ELECTRICAL DRAWINGS.

GENERAL NOTES

- 1. THE CONTRACTOR IS RESPONSIBLE TO THOROUGHLY UNDERSTAND THE DRAWINGS, BUILDING, SYSTEMS, STRUCTURE, ETC. PRIOR TO BEGINNING THE CONSTRUCTION PROCESS. CAREFUL COORDINATION BETWEEN THE ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AS WELL AS COORDINATION OF TRADESMEN ON THE JOB IS THE RESPONSIBILITY OF THE CONTRACTOR. ANY QUESTIONS OR VARIATION IN DRAWINGS AND EXISTING CONDITIONS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION AT THE EARLIEST POSSIBLE OPPORTUNITY.
- 2. DO NOT SCALE DRAWINGS FOR DIMENSIONS.
- 3. DETAILING INDICATED TO SHOW GENERAL DESIGN INTENT FINAL SPECIFIC DETAILING & DESIGN TO BE SUBMITTED BY THE METAL BUILDING MANUFACTURE.
- 4. ALL EXPOSED STRUCTURE IS TO BE FACTORY PRIMED.

SCOTT P. EVANS
ARCHITECT
& ASSOCIATES P.C.



108 WEST CENTER STREET
BOUNTIFUL, UTAH 84010
PHONE (801) 298-1368
FAX (801) 298-2192
E-MAIL info@spe-architect.com
WEB: www.spe-architect.com



PROFESSIONAL SEAL

CONSULTANTS

STRUCTURAL ENGINEER:
BHB ENGINEERING
MECHANICAL ENGINEER:
VBFA ENGINEERS
ELECTRICAL ENGINEER:
THOMAS & KOLKMAN

**NEW METAL BUILDING
SPRINGVILLE HATCHERY**

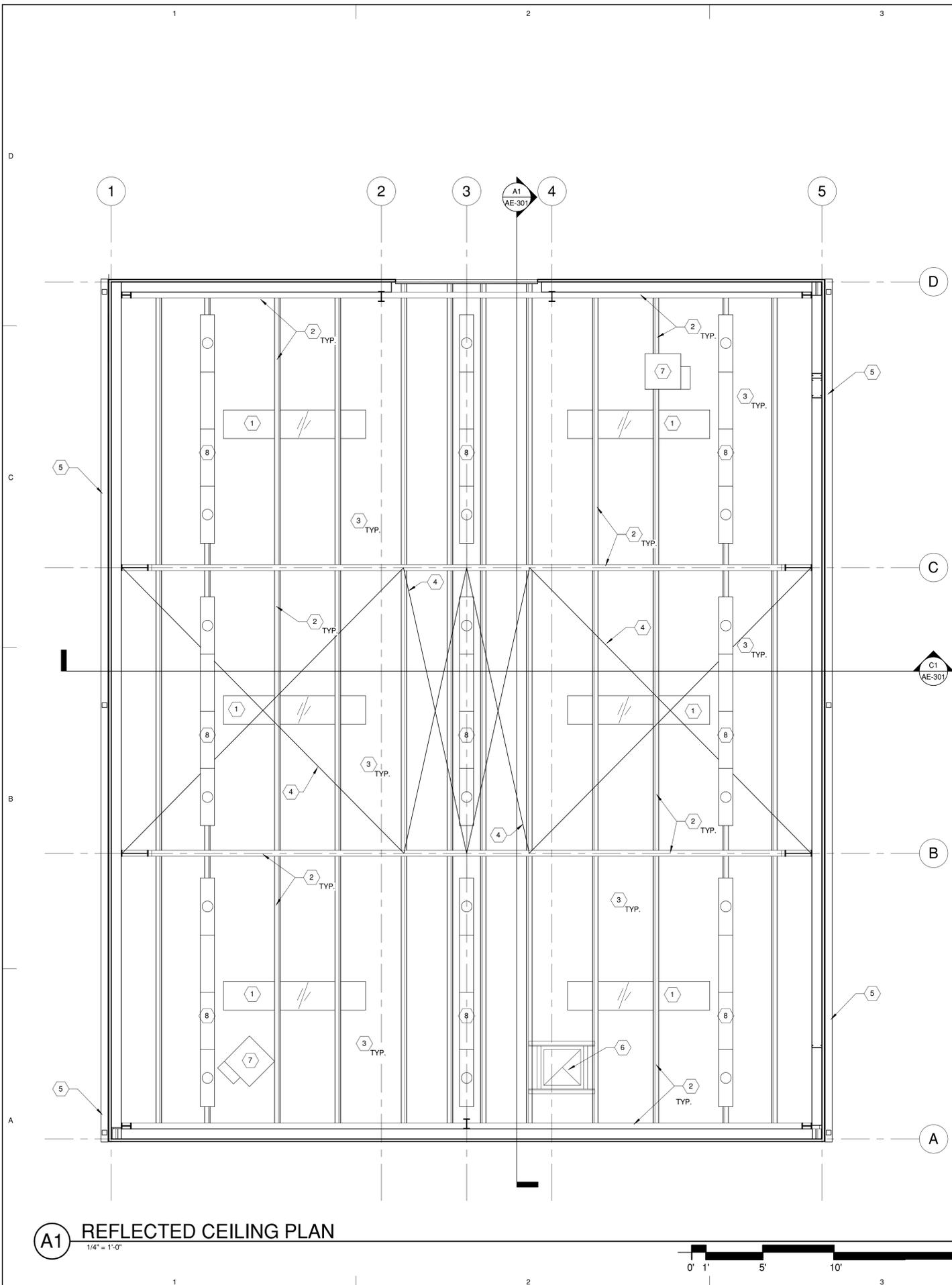
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SHEET TITLE
FLOOR PLAN

AE-101



KEYED NOTES

- 1 TRANSLUCENT ROOF PANEL BY THE METAL BUILDING MANUFACTURE - REFER TO DETAIL D4/AE-501 & D1/AE-501 CENTER IN BAY AS SHOWN - (10'-4" x PANEL WIDTH)
- 2 METAL BUILDING PURLINS & STRUCTURE TO BE FACTORY PRIMED.
- 3 VINYL COVERED INSULATION (BANDED).
- 4 CROSS BRACING.
- 5 PREFINISHED METAL RAIN GUTTER BY METAL BUILDING MANUFACTURE WITH (3) PREFINISHED METAL DOWNSPOUT BY METAL BUILDING MANUFACTURE - REFER TO DETAILS B2/AE-501 & C1/AE-501 - RAIN GUTTER NOT TO EXCEED 50'-0" WITH OUT A EXPANSION JOINT.
- 6 ROOF TOP EXHAUST FAN - SEE MECHANICAL DRAWINGS - REFER TO DETAILS A4 & B4/AE-502.
- 7 GAS FIRED UNIT HEATER - SEE MECHANICAL DRAWINGS.
- 8 LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS.

SCOTT P. EVANS
ARCHITECT
& ASSOCIATES P.C.



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BOUNTIFUL, UTAH 84010
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E-MAIL info@spe-architect.com
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SPRINGVILLE HATCHERY**
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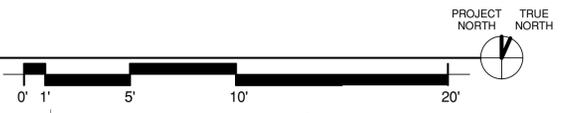
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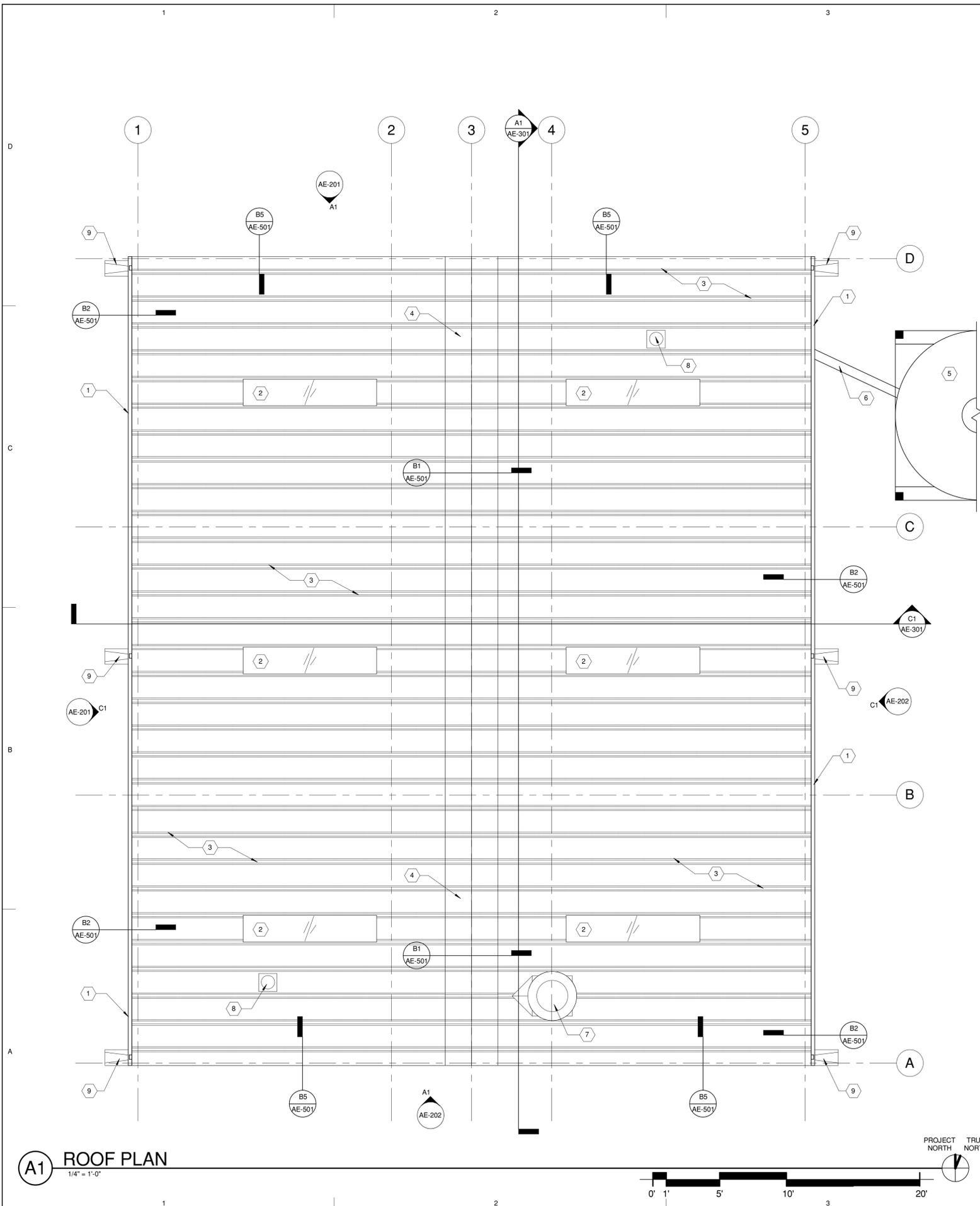
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SHEET TITLE
**REFLECTED
CEILING PLAN**

AE-102

A1 REFLECTED CEILING PLAN
1/4" = 1'-0"





A1 ROOF PLAN
1/4" = 1'-0"

KEYED NOTES

- 1 PREFINISHED METAL RAIN GUTTER BY METAL BUILDING MANUFACTURER WITH (3) PREFINISHED METAL DOWNSPOUT BY METAL BUILDING MANUFACTURER - REFER TO DETAILS B2/AE-501 & C1/AE-501 - RAIN GUTTER NOT TO EXCEED 50'-0" WITH OUT A EXPANSION JOINT.
- 2 TRANSLUCENT ROOF PANEL BY THE METAL BUILDING MANUFACTURE - REFER TO DETAIL D4/AE-501 & D1/AE-501 CENTER IN BAY AS SHOWN - (10'-4" x PANEL WIDTH).
- 3 PREFINISHED METAL RIB PANEL ROOF SYSTEM BY METAL BUILDING MANUFACTURER.
- 4 RIDGE CAP BY METAL BUILDING MANUFACTURER - SEE DETAIL B1/AE-501.
- 5 EXTG. FEED HOPPER TO REMAIN - REMOVE SECTION OF EXTG. FEEDER TUBE FROM HOPPER TO ALLOW FOR NEW CONSTRUCTION TO TAKE PLACE - REINSTALL ALL EXTG. FEEDER TUBE THROUGH NEW METAL BUILDING PANEL WHEN BUILDING WALL PANEL IS BEING CONSTRUCTED - REINSTALL SIMILAR TO EXTG. BUILDING INSTALLATION SEE DETAIL A1/AE-502 - INSTALL THE SAME DISTANCE INTO THE INSIDE OF THE NEW BUILDING AS THE OLD BUILDING - MEASURE LAYOUT OF STRUCTURE AND NOTIFY THE ARCHITECT OF THE DIMENSION WORKED OUT BY CONTRACTOR TO ACCOMMODATE EXTG. FEEDER TUBE - NOTIFY ARCHITECT BEFORE.
- 6 EXTG. FEEDER TUBE - REMOVE & REINSTALL IN NEW BUILDING - REFER TO DETAIL A1/AE-502.
- 7 ROOF TOP EXHAUST FAN WITH CRICKET AS SHOWN - SEE MECHANICAL DRAWINGS - REFER TO DETAILS A4 & B4/AE-502.
- 8 FLUE FROM GAS FIRED HEATER - SEE DETAIL B2/AE-502 & MECHANICAL DRAWINGS.
- 9 PROVIDE CONCRETE SPLASH BLOCKS UNDER DOWN SPOUT TYP.

SCOTT P. EVANS
ARCHITECT
& ASSOCIATES P.C.



108 WEST CENTER STREET
BOUNTIFUL, UTAH 84010
PHONE (801) 298-1368
FAX (801) 298-2192
E-MAIL info@spe-architect.com
WEB: www.spe-architect.com



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CONSULTANTS

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BHB ENGINEERING
MECHANICAL ENGINEER:
VBFA ENGINEERS
ELECTRICAL ENGINEER:
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SPRINGVILLE HATCHERY**
1000 NORTH MAIN STREET
SPRINGVILLE, UTAH 84663

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SHEET TITLE
ROOF PLAN

AE-103



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MECHANICAL ENGINEER:
VBFA ENGINEERS

ELECTRICAL ENGINEER:
THOMAS & KOLKMAN

NEW METAL BUILDING
SPRINGVILLE HATCHERY

1000 NORTH MAIN STREET
SPRINGVILLE, UTAH 84663

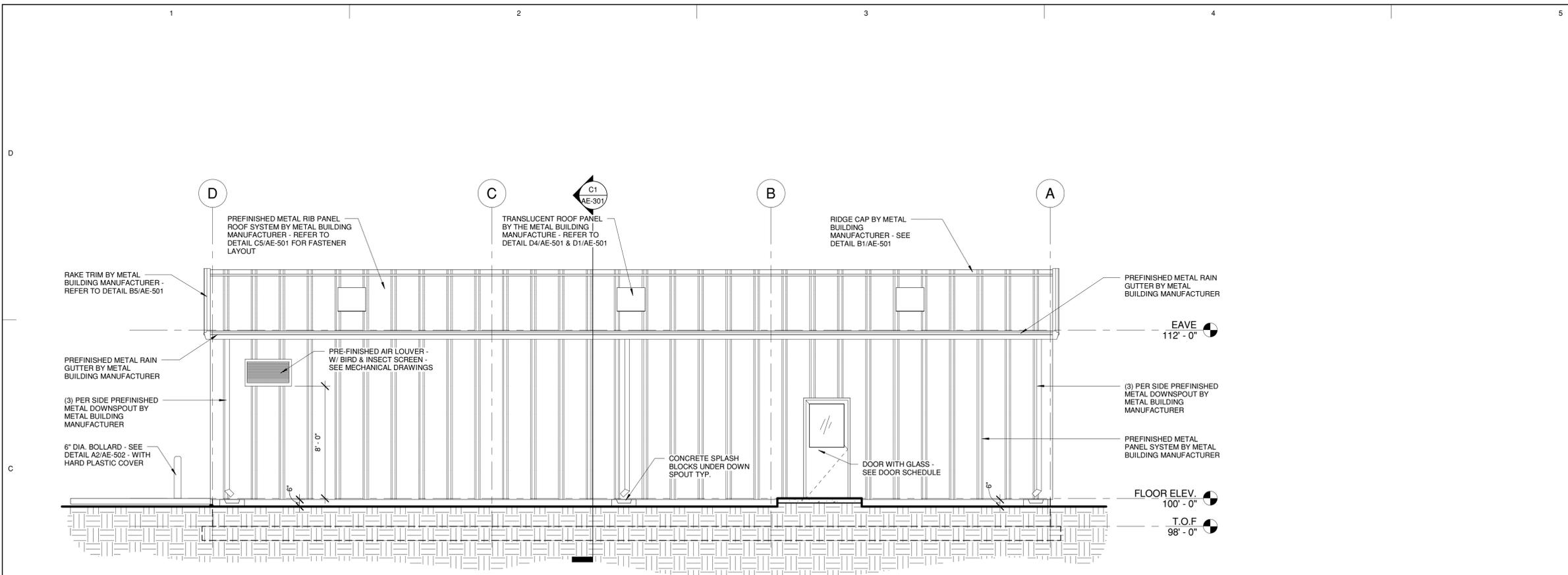
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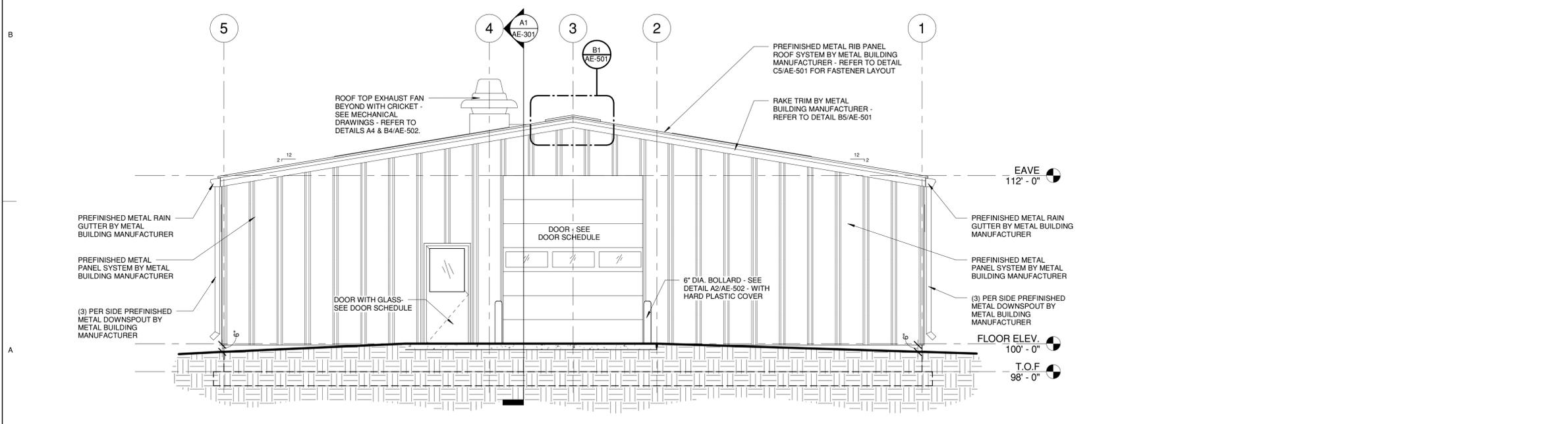
SHEET TITLE

EXTERIOR
ELEVATIONS

AE-201



C1 WEST ELEVATION
1/4" = 1'-0"



A1 NORTH ELEVATION
1/4" = 1'-0"





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CONSULTANTS

STRUCTURAL ENGINEER:
BHB ENGINEERING

MECHANICAL ENGINEER:
VBFA ENGINEERS

ELECTRICAL ENGINEER:
THOMAS & KOLKMAN

NEW METAL BUILDING
SPRINGVILLE HATCHERY

1000 NORTH MAIN STREET
SPRINGVILLE, UTAH 84663

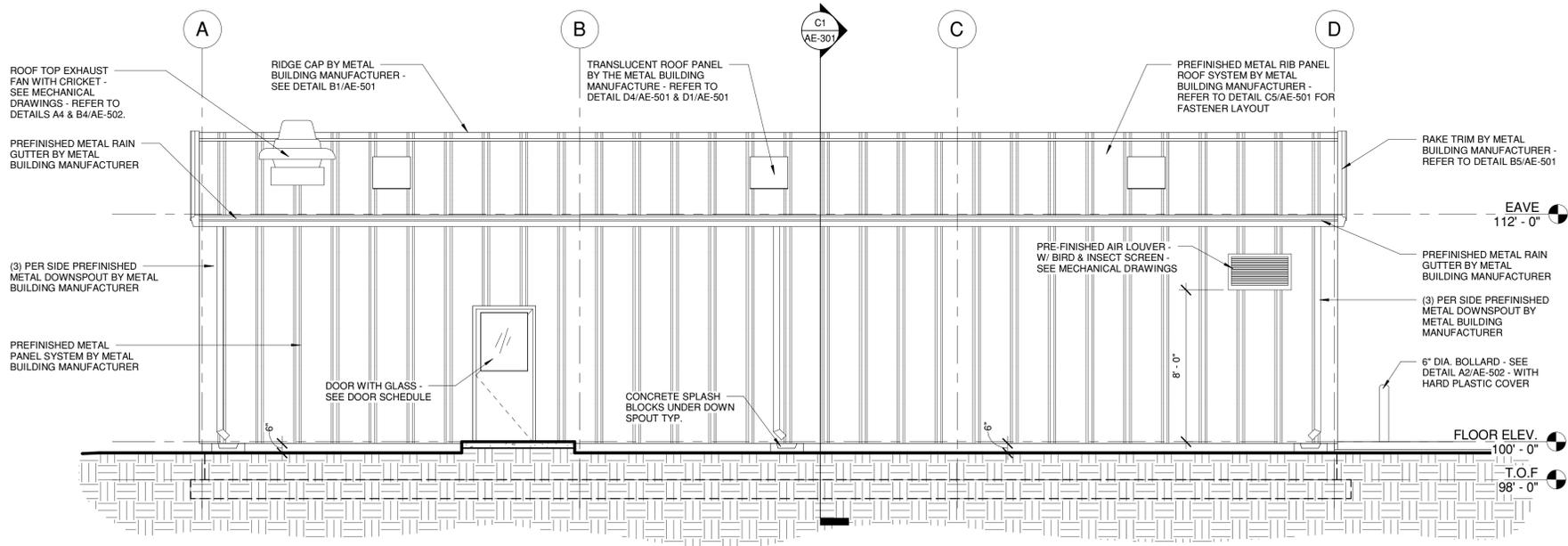
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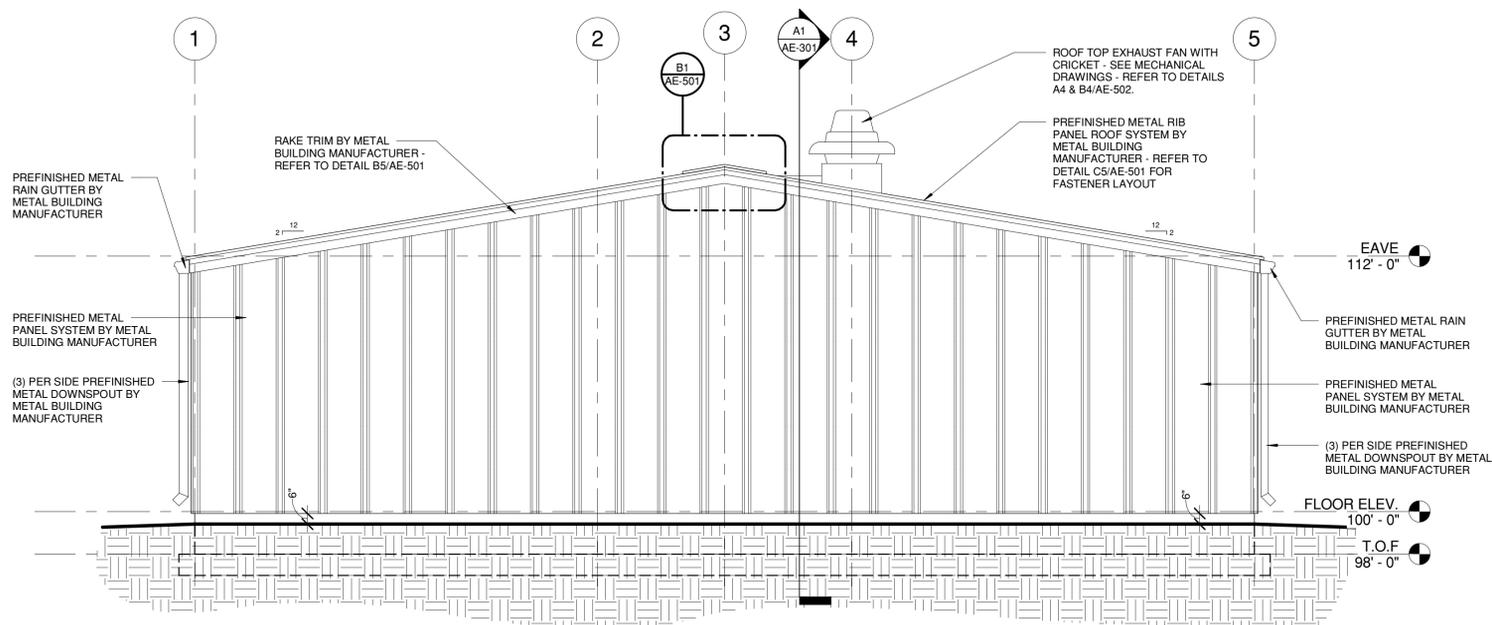
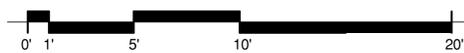
EXTERIOR
ELEVATIONS

AE-202



C1 EAST ELEVATION

1/4" = 1'-0"



A1 SOUTH ELEVATION

1/4" = 1'-0"





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BHB ENGINEERING
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ELECTRICAL ENGINEER:
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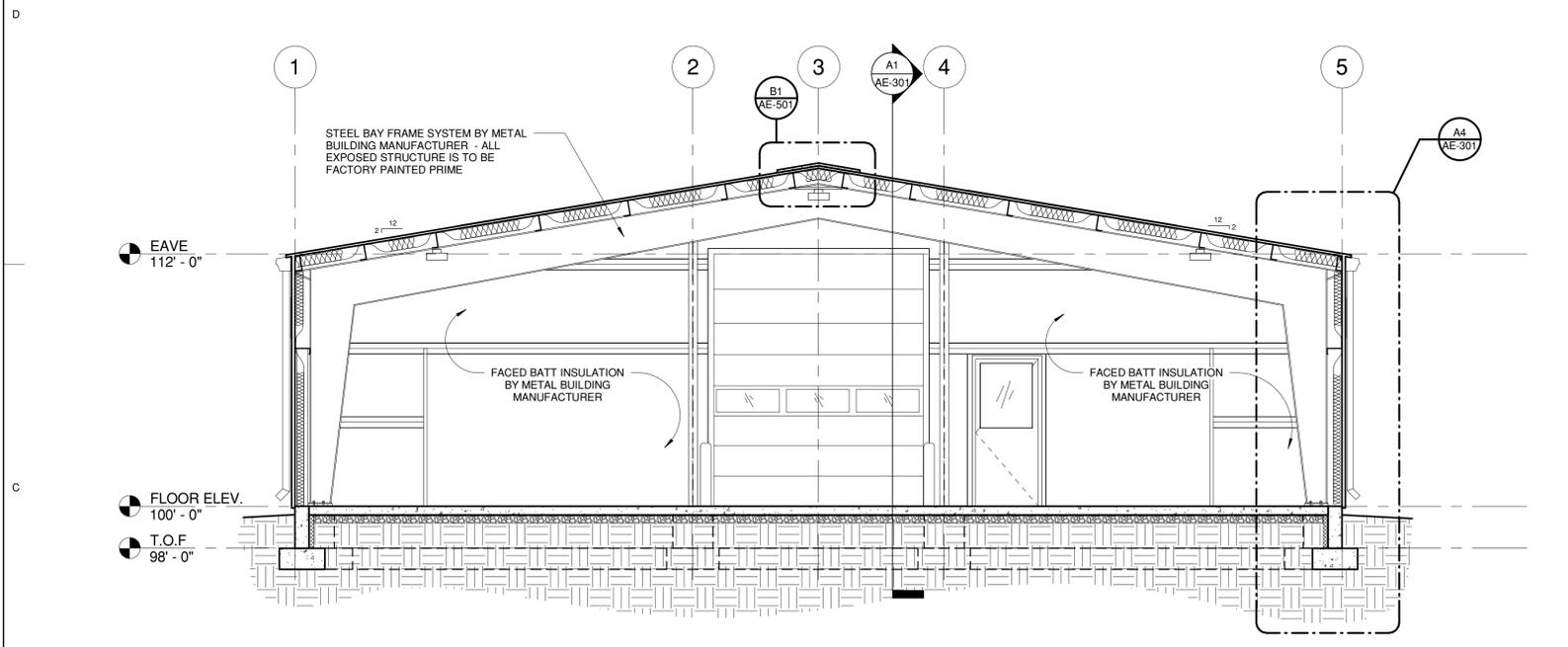
**NEW METAL BUILDING
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MARK	DATE	DESCRIPTION

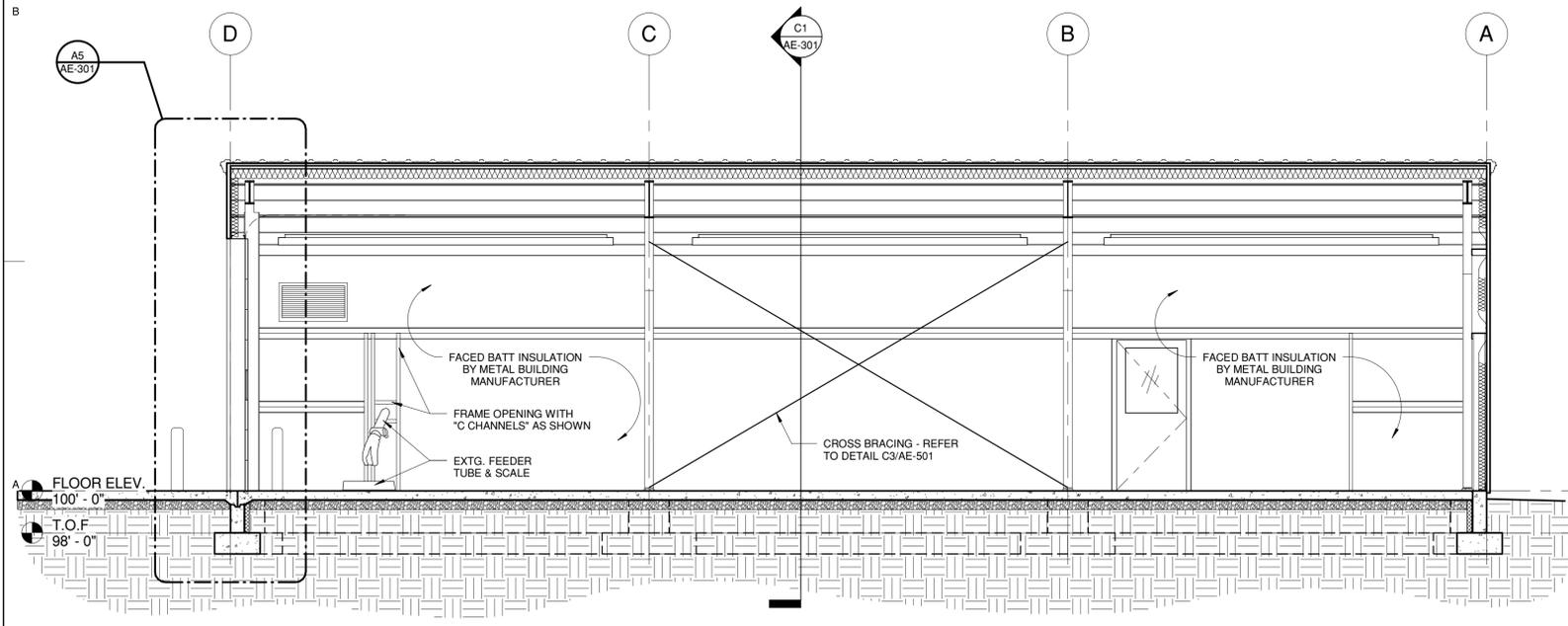
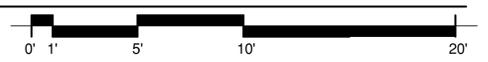
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SHEET TITLE
SECTIONS

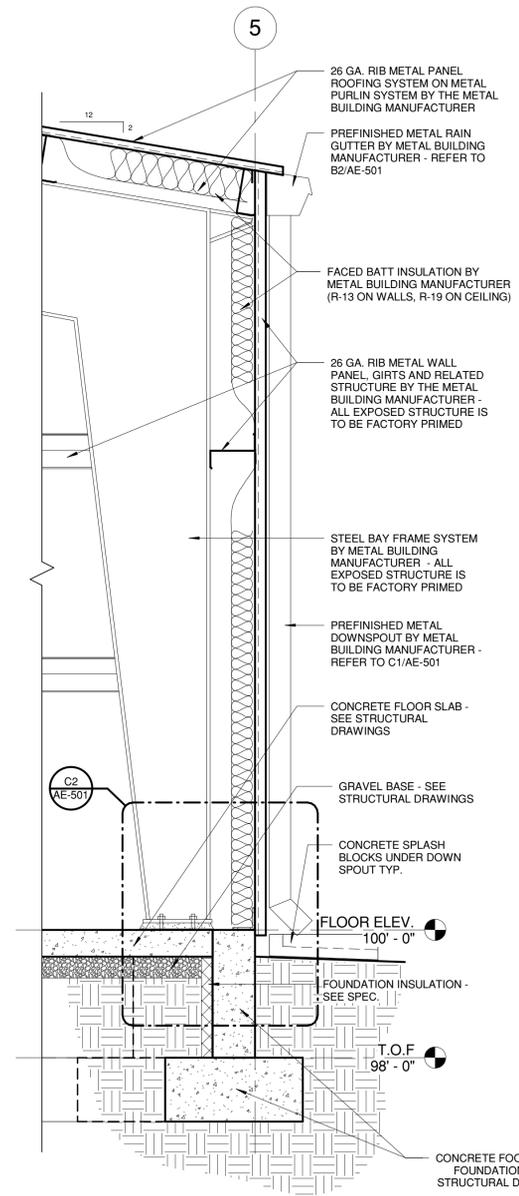
AE-301



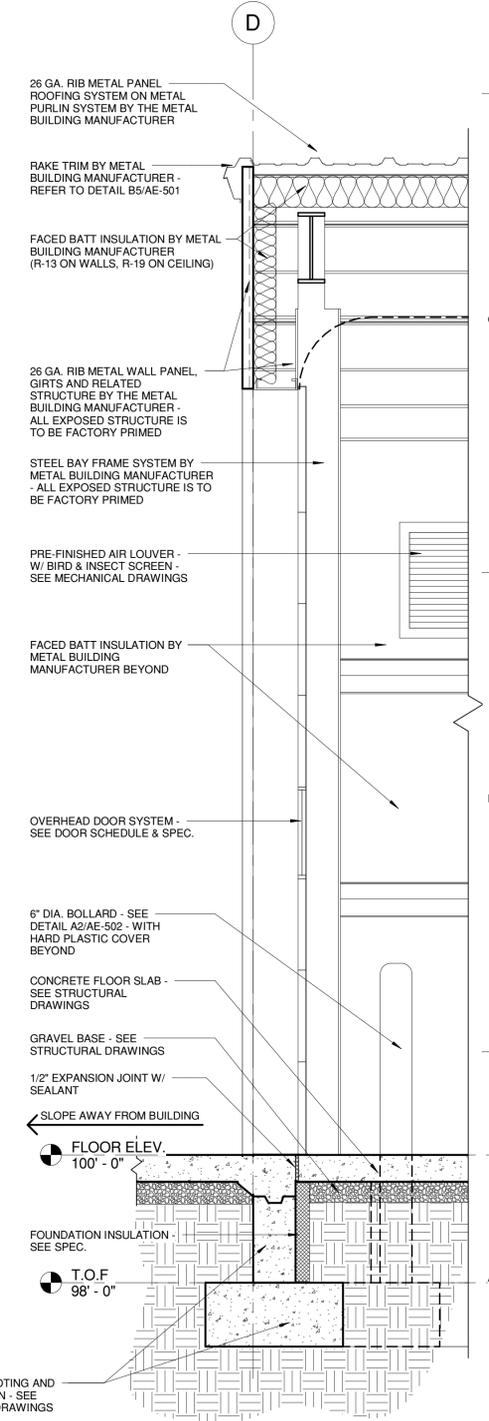
C1 BUILDING SECTION
1/4" = 1'-0"



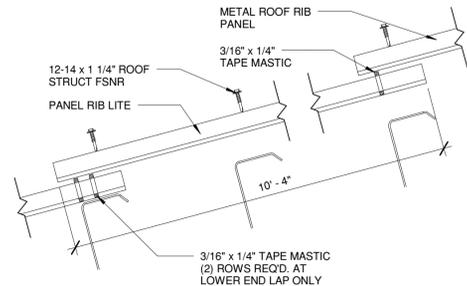
A1 BUILDING SECTION
1/4" = 1'-0"



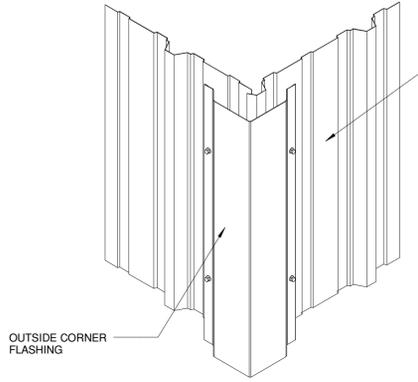
A4 WALL SECTION
3/4" = 1'-0"



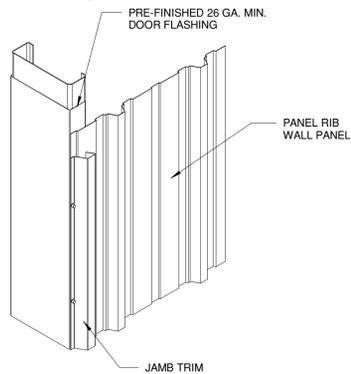
A5 WALL SECTION
3/4" = 1'-0"



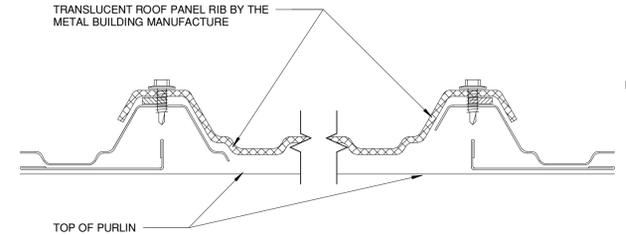
D1 ROOF PANEL RIB LITE SECTION
NONE



D2 OUTSIDE CORNER TRIM
NONE



D3 JAMB TRIM AT OVERHEAD DOOR
NONE

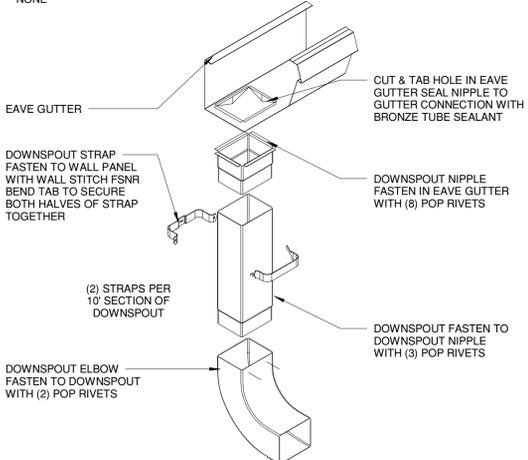


D4 ROOF PANEL RIB LITE DETAIL
6\"/>

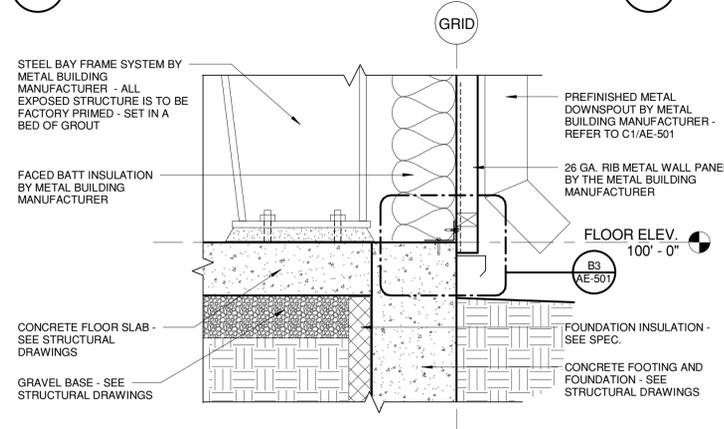
DETAILING INDICATED TO SHOW GENERAL DESIGN INTENT FINAL SPECIFIC DETAILING & DESIGN TO BE SUBMITTED BY THE METAL BUILDING MANUFACTURE.

SCOTT P. EVANS
ARCHITECT
& ASSOCIATES P.C.

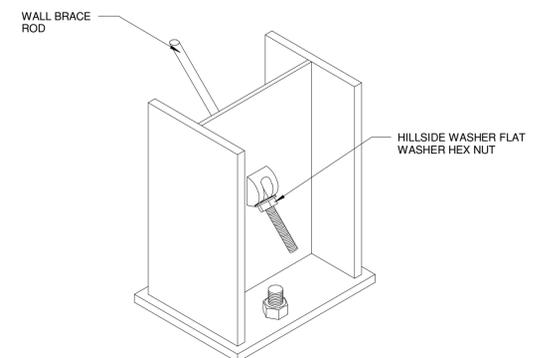
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BOUNTIFUL, UTAH 84010
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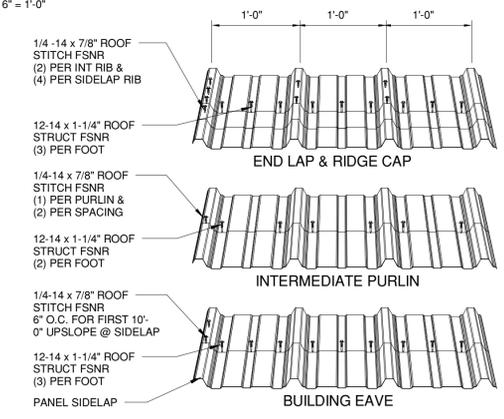
C1 DOWNSPOUT DETAIL
NONE



C2 BASE OF WALL DETAIL
1 1/2\"/>



C3 ROD BRACING @ COLUMN BASE
NONE



C5 U.L.90 RATED: ICE DAMMING FASTENER PATTERNS
NONE

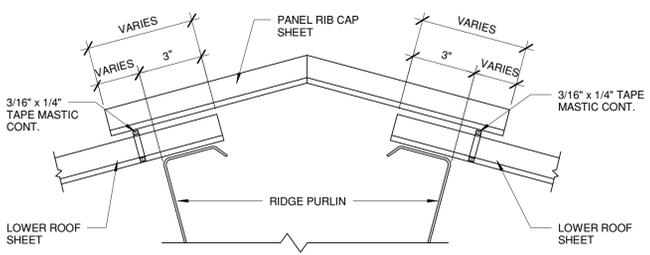
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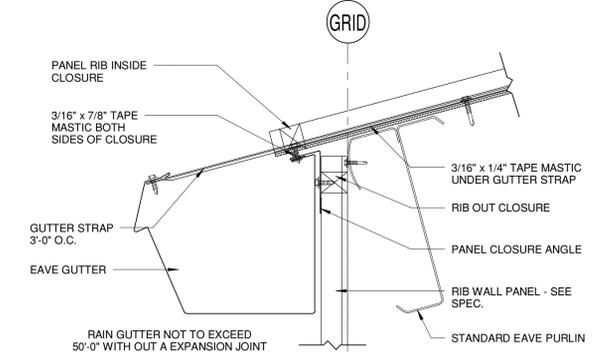
STRUCTURAL ENGINEER:
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MECHANICAL ENGINEER:
VBFA ENGINEERS

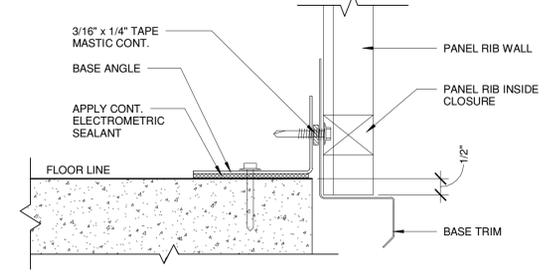
ELECTRICAL ENGINEER:
THOMAS & KOLKMAN



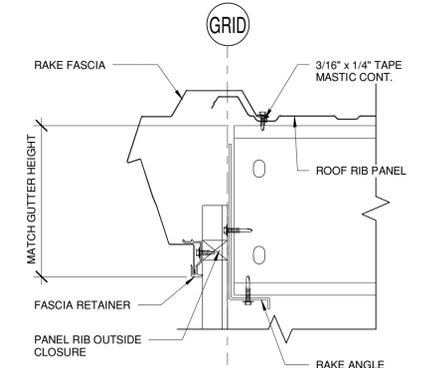
B1 RIDGE CAP DETAIL
3\"/>



B2 EAVE GUTTER DETAIL
3\"/>



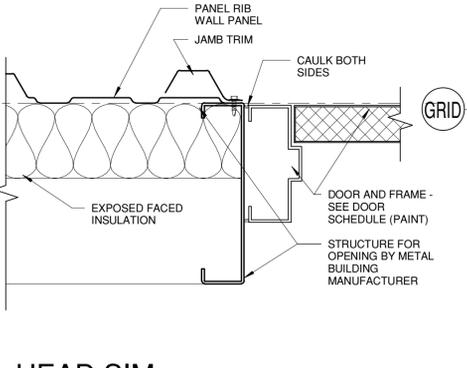
B3 BASE OF WALL ATTACHMENT
6\"/>



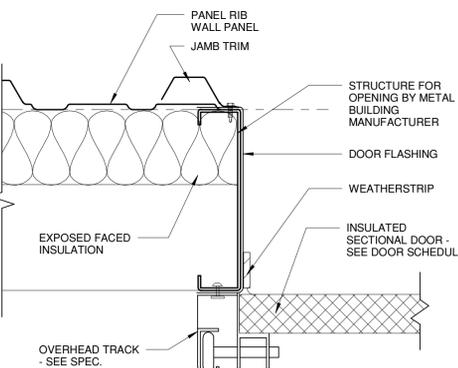
B5 PANEL RIB RAKE TRIM
3\"/>

NEW METAL BUILDING
SPRINGVILLE HATCHERY

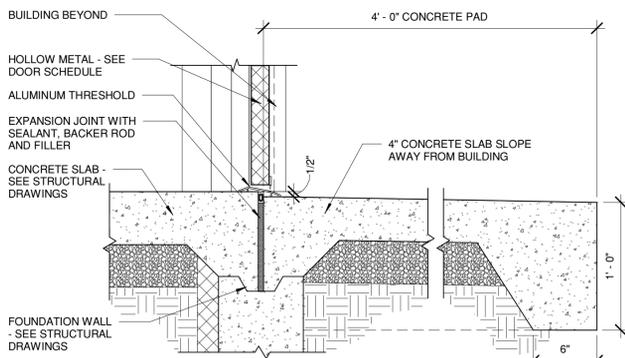
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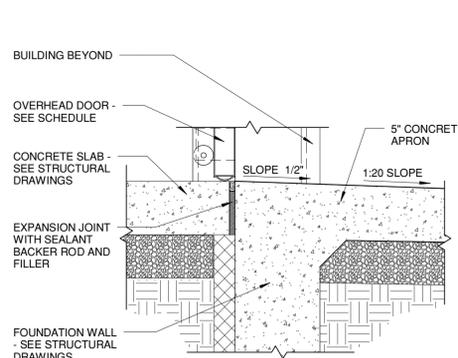
A1 HEAD SIM. DOOR JAMB DETAIL
3\"/>



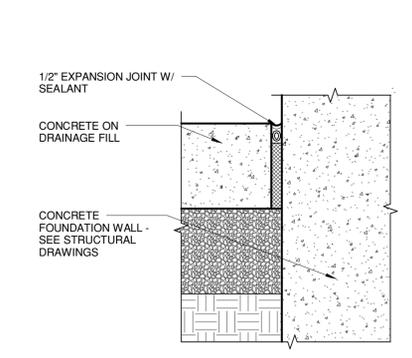
A2 DOOR JAMB DETAIL
3\"/>



A3 THRESHOLD DETAIL
1 1/2\"/>



A4 THRESHOLD DETAIL
1 1/2\"/>



A5 EXPANSION JOINT DETAIL
3\"/>

MARK	DATE	DESCRIPTION
5/15/06		CONSTRUCTION DOCUMENTS

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SHEET TITLE
DETAILS

AE-501



C1 EXISTING BUILDING #1 (SOUTHEAST)
SCALE: NONE



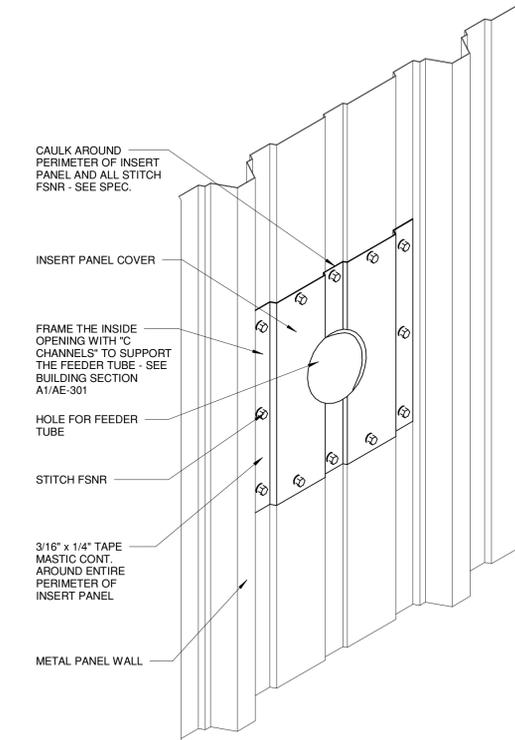
C3 PHOTO OF BENCH MARK ELEVATION
1/2" = 1'-0"



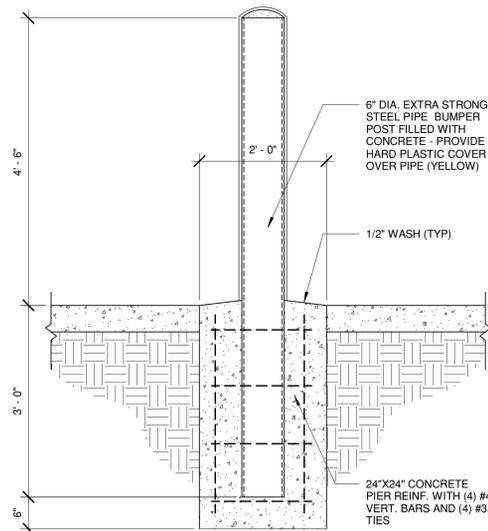
B1 EXISTING BUILDING #2 (SOUTHWEST)
SCALE: NONE



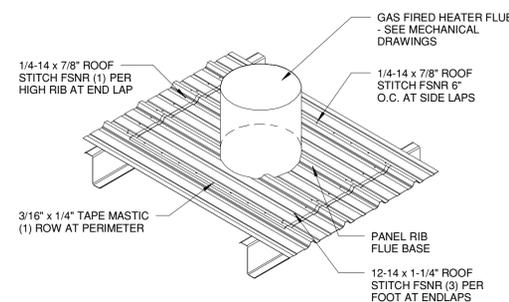
B3 EXISTING BUILDING #3 (NORTH)
SCALE: NONE



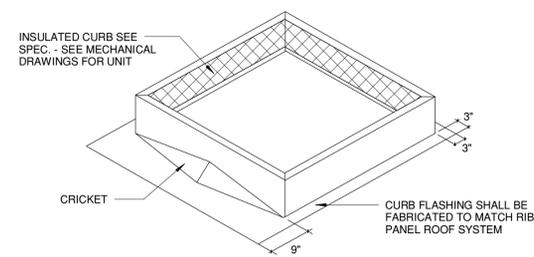
A1 PENETRATION THRU METAL PANEL
NONE



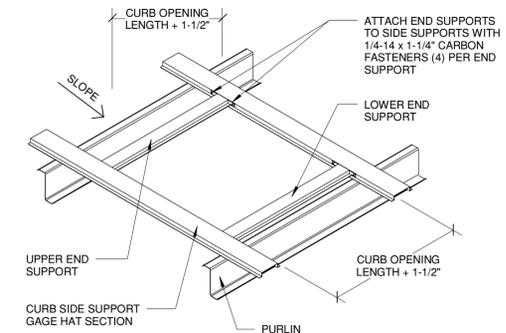
A2 PIPE BOLLARD DETAIL
3/4" = 1'-0"



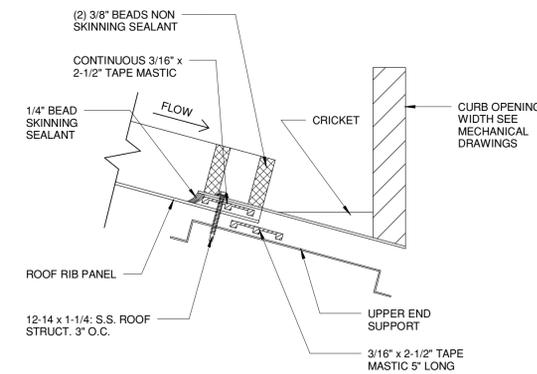
B2 FLUE DETAIL
NONE



A3 ROOF TOP CURB
1/2" = 1'-0"



B4 CURB SUPPORT FRAMING
NONE



A4 CURB FLASHING
NONE

SCOTT P. EVANS
ARCHITECT
& ASSOCIATES P.C.



108 WEST CENTER STREET
BOUNTIFUL, UTAH 84010
PHONE (801) 298-1368
FAX (801) 298-2192
E-MAIL info@spe-architect.com
WEB: www.spe-architect.com



PROFESSIONAL SEAL

CONSULTANTS

STRUCTURAL ENGINEER:
BHB ENGINEERING
MECHANICAL ENGINEER:
VBFA ENGINEERS
ELECTRICAL ENGINEER:
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NEW METAL BUILDING
SPRINGVILLE HATCHERY

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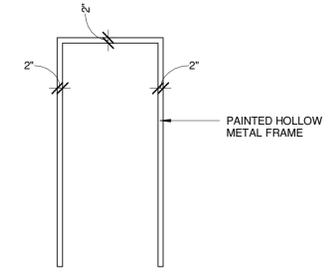
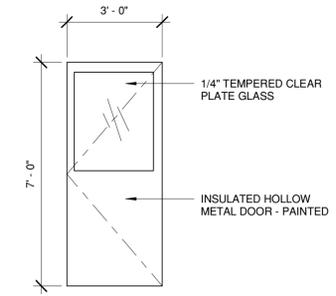
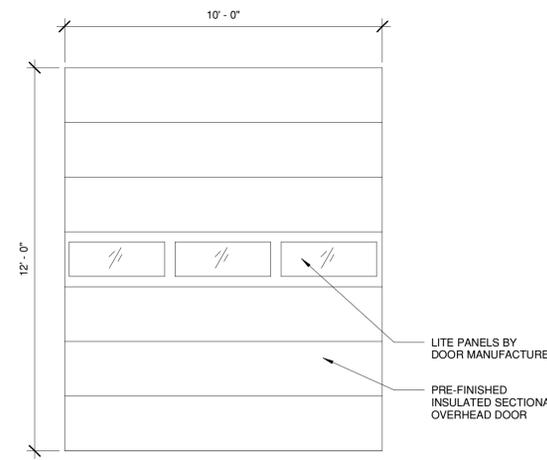
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SHEET TITLE
DETAILS

AE-502

Door Schedule																	
Mark	Width	Height	Thickness	Door Type	Door Material	Fire Rating	Door Finish	Frame Type	Frame Material	Head Detail	Jamb (R) Detail	Jamb (L) Detail	Threshold Detail	Signage Type	Signage Text	Hardware	Comments
101	10' - 0"	12' - 0"	1 1/2"	A		NONE				A2/AE-501 SIM.	A2/AE-501	A2/AE-501	A4/AE-501				REFER TO DETAIL D3/AE-501
102	3' - 0"	7' - 0"	1 3/4"	B	HOLLOW METAL	NONE	PAINTED	A	HOLLOW METAL	A1/AE-501 SIM.	A1/AE-501	A1/AE-501	A2/AE-501			H-1	
103	3' - 0"	7' - 0"	1 3/4"	B	HOLLOW METAL	NONE	PAINTED	A	HOLLOW METAL	A1/AE-501 SIM.	A1/AE-501	A1/AE-501	A2/AE-501			H-1	
104	3' - 0"	7' - 0"	1 3/4"	B	HOLLOW METAL	NONE	PAINTED	A	HOLLOW METAL	A1/AE-501 SIM.	A1/AE-501	A1/AE-501	A2/AE-501			H-1	



"A"
C1 DOOR TYPE
 3/8" - 1'-0"

"B"

"A"
C2 FRAME TYPE
 3/8" - 1'-0"

SCOTT P. EVANS
 ARCHITECT
 & ASSOCIATES P.C.



108 WEST CENTER STREET
 BOUNTIFUL, UTAH 84010
 PHONE (801) 298-1368
 FAX (801) 298-2192
 E-MAIL info@spe-architect.com
 WEB: www.spe-architect.com



CONSULTANTS
 STRUCTURAL ENGINEER:
 BHB ENGINEERING
 MECHANICAL ENGINEER:
 VBFA ENGINEERS
 ELECTRICAL ENGINEER:
 THOMAS & KOLKMAN

**NEW METAL BUILDING
 SPRINGVILLE HATCHERY**
 1000 NORTH MAIN STREET
 SPRINGVILLE, UTAH 84663

MARK	DATE	DESCRIPTION
	5/15/06	CONSTRUCTION DOCUMENTS

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SHEET TITLE
DOOR SCHEDULE

AE-601

LEGEND OF MECHANICAL SYMBOLS AND ABBREVIATIONS

MECHANICAL

	POSITIVE PRESSURE DUCT - RISE
	POSITIVE PRESSURE DUCT - DROP
	NEGATIVE PRESSURE DUCT - RISE
	NEGATIVE PRESSURE DUCT - DROP
	ROUND DUCT - RISE
	ROUND DUCT - DROP
	UNDER FLOOR DUCT
	TURNING VANES
	FRESH AIR LOUVER
	RELIEF AIR OR EXHAUST AIR LOUVER
	CEILING SUPPLY DIFFUSER
	CEILING RETURN REGISTER
	CEILING EXHAUST REGISTER, (BALANCE TO MATCH SUPPLY IF RETURN CFM IS NOT SHOWN)
	SIDEWALL SUPPLY REGISTER
	SIDEWALL EXHAUST OR RETURN REGISTER
	CEILING SUPPLY DIFFUSER WITH FLEXIBLE DUCT
	CEILING AIR GRILLE WITH FLEXIBLE DUCT
	CEILING RETURN AIR GRILLE W/ SOUND BOOT
	LINEAR DIFFUSER WITH PLENUM AND FLEXIBLE DUCT CONNECTION. NO. OF SLOTS & SIZE OF SLOT ON TOP, ACTIVE LENGTH AND CFM ON BOTTOM
	FLEXIBLE DUCT CONNECTION
	FLEXIBLE DUCT
	FAN
	FLAT OVAL DUCT WITH NET INSIDE DIMENSIONS SHOWN IN INCHES.
	RECTANGULAR DUCT WITH NET INSIDE DIMENSIONS SHOWN IN INCHES.
	ROUND DUCT WITH NET INSIDE DIMENSIONS SHOWN IN INCHES.
	INCLINED RISE
	INCLINED DROP
	R/W=1. ROUND DUCT SIMILAR TO RECTANGULAR
	RECTANGULAR TO ROUND DUCT TRANSFORMATION MAXIMUM 15° INCLUDED ANGLE EXCEPT WHERE SHOWN OTHERWISE.
	RECTANGULAR TO ROUND DUCT TRANSFORMATION BRANCH DUCT SPLIT WITH 6" WIDTH AND MIN. R=WIDTH OF BRANCH DUCT DOWNSTREAM. ELBOW TURNING VANE OPTIONAL.
	TAP ENTRY AREA EQUALS 150% OF BRANCH AREA
	HIGH EFFICIENCY FITTING
	MANUAL VOLUME DAMPER
	FIRE DAMPER IN DUCT, W/ ACCESS PANEL RECD.
	COMBINATION FIRE/SMOKE DAMPER W/ ACCESS PANEL
	SMOKE DAMPER W/ ACCESS PANEL
	BACK DRAFT DAMPER
	ATC DAMPER
	ACCESS PANEL IN DUCT OR PLENUM
	HEATING OR COOLING COIL IN DUCT
	SINGLE DUCT AIR TERMINAL BOX VARIABLE OR CONSTANT VOLUME. MIN. 1-1/2" TERMINAL INLET SIZE STRAIGHT DUCT AT TERMINAL INLET.
	4-WAY BLOW PATTERN
	3-WAY BLOW PATTERN
	2-WAY BLOW PATTERN
	2-WAY BLOW PATTERN
	1-WAY BLOW PATTERN
	DUCT SMOKE DETECTOR
	UNIT HEATER

TOP FIGURES INDICATE NECK SIZE. BOTTOM FIGURE INDICATES CFM.

PLUMBING

	FLOOR SINK
	FLOOR DRAIN
	FLOOR CLEAN-OUT OR CLEAN-OUT TO GRADE
	ROOF DRAIN
	DOWNSPOUT NOZZLE
	ARROW INDICATES DIRECTION OF FLOW IN PIPE
	CHECK VALVE
	PRESSURE REDUCING, EXTERNAL PRESSURE VALVE
	PRESSURE REDUCING, SELF CONTAINED VALVE
	ATO VALVE - 2 WAY
	ATO VALVE - 3 WAY
	SOLENOID VALVE
	GATE VALVE
	GATE VALVE - NON RISING STEM
	GLOBE VALVE
	TEMPERATURE AND PRESSURE TEST PORT
	PRESSURE SWITCH
	LUBRICATED PLUG VALVE
	CALIBRATED BALANCING VALVE WITH GPM INDICATED
	FLOW CONTROL VALVE
	BRANCH - BOTTOM CONNECTION
	BRANCH - TOP CONNECTION
	BRANCH - SIDE CONNECTION
	RISE OR DROP
	RISE - DOWN (ELBOW)
	RISE - DOWN (ELBOW)
	VENT THRU ROOF
	WATER HAMMER ARRESTOR
	INLINE PUMP
	INLINE PUMP
	CLEAN-OUT
	RELIEF VALVE
	ANGLE VALVE
	FLOW METER
	UNION
	GAS COCK
	SHUT-OFF COCK FOR USE WITH PRESSURE GAUGE
	FLEXIBLE EXPANSION JOINT
	THERMOMETER - TEMP RANGE AS INDICATED
	PRESSURE GAUGE WITH SHUT-OFF COCK
	PRESSURE GAUGE WITH PIGTAIL
	LATERAL STRAINER WITH BLOW-OFF VALVE. PROVIDE HOSE END WITH CAP WHERE DISCHARGE IS NOT PIPED TO DRAIN
	BALL VALVE (PIPE SIZES 2" AND SMALLER)
	BUTTERFLY VALVE (PIPE SIZES 2-1/2" AND LARGER)
	MOTOR OPERATED BUTTERFLY VALVE
	VALVE IN RISE
	AIR VENT-MANUAL
	AIR VENT-AUTO
	FLOW SWITCH
	REDUCER
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER

PLUMBING CONT.

	HOSE BIBB
	PIPE CAP
	SWITCH
	SENSOR
	THERMOSTAT
	NIGHT THERMOSTAT
	FILL PORT
	DRAIN PAN AND P-TRAP
	FIXTURE FROM LEVEL ABOVE
	FLOW METER ORIFICE
	FLANGE
	90° ELBOW
	45° ELBOW
	STEAM TRAP. F&T=FLOAT & THERMOSTATIC BUBBLE, T=THERMOSTATIC
	LEADER INDICATES DOWNWARD SLOPE
	DEMOLITION
	ALIGNMENT GUIDE
	ANCHOR

SYMBOLS

	PLUMBING FIXTURES
	POINT OF CONNECTION
	SECTION TAG - TOP FIGURE IS SECTION NO. BOTTOM FIGURE IS SHEET NO.
	DETAIL TAG - TOP FIGURE IS DETAIL NO. BOTTOM FIGURE IS SHEET NO.
	EQUIPMENT IDENTIFICATION
	KEYED NOTE IDENTIFICATION

FIRE

	HOSE VALVE
	NRS GATE VALVE WITH SUPERVISION
	FLOW SWITCH
	FIRE RISER
	SPRINKLER HEAD
	FIRE SPRINKLER WATER

LINETYPES

	ACID VENT
	ACID WASTE
	BOILER BLOW DOWN
	BOILER FEED WATER
	BRINE
	CARBON DIOXIDE
	COMPRESSED AIR
	CHEMICAL FEED
	CHILLED WATER SUPPLY
	CHILLED WATER RETURN
	CONDENSER WATER SUPPLY
	CONDENSER WATER RETURN
	DOMESTIC COLD WATER (DCW)
	DOMESTIC HOT WATER (DHW)
	DOMESTIC HOT WATER RETURN (DHW R)
	DEIONIZED WATER SUPPLY
	DEIONIZED WATER RETURN
	EXISTING PIPING
	EXISTING PIPING TO BE REMOVED
	GLYCOL HEAT RECOVERY PIPING
	GLYCOL PIPING SOLUTION
	FUEL OIL RETURN
	FUEL OIL SUPPLY
	NATURAL GAS
	HOT GAS
	HELICOPTER FUEL RETURN
	HELICOPTER FUEL SUPPLY
	HIGH PRESSURE DOMESTIC WATER
	HIGH PRESSURE CONDENSATE
	HIGH PRESSURE STEAM
	HEATING HOT WATER RETURN
	HEATING HOT WATER SUPPLY
	INSTRUMENT AIR
	INSTRUMENT AIR AT PRESSURE INDICATED
	LAB AIR
	LAB VACUUM
	LOW PRESSURE CONDENSATE
	LIQUIFIED PETROLEUM GAS
	LOW PRESSURE STEAM
	MEDICAL AIR
	MEDICAL AIR AT PRESSURE INDICATED
	MEDIUM PRESSURE CONDENSATE
	MEDIUM PRESSURE STEAM
	MAKE UP WATER
	MEDICAL VACUUM
	NITROGEN
	NITROUS OXIDE
	MEDICAL OXYGEN
	MEDICAL OXYGEN AT PRESSURE INDICATED
	PUMPED CONDENSATE
	REVERSE OSMOSIS WATER SUPPLY

LINETYPES CONT.

	REVERSE OSMOSIS WATER RETURN
	ROOF DRAIN
	ROOF DRAIN OVERFLOW
	REFRIGERANT LIQUID
	REFRIGERANT SUCTION
	SEWER (BELOW GRADE)
	SEWER (ABOVE GRADE)
	SOFT DOMESTIC WATER (SW)
	VACUUM
	VENT (SEWER)

SCOTT P. EVANS
ARCHITECT
& ASSOCIATES P.C.



108 WEST CENTER STREET
BOUNTIFUL, UTAH 84010
PHONE (801) 298-1368
FAX (801) 298-2192
E-MAIL info@spe-architect.com
WEB: www.spe-architect.com

PROFESSIONAL SEAL

CONSULTANTS

STRUCTURAL ENGINEER:
BFB ENGINEERING
MECHANICAL ENGINEER:
VBFA ENGINEERS
ELECTRICAL ENGINEER:
THOMAS & KOLKMAN

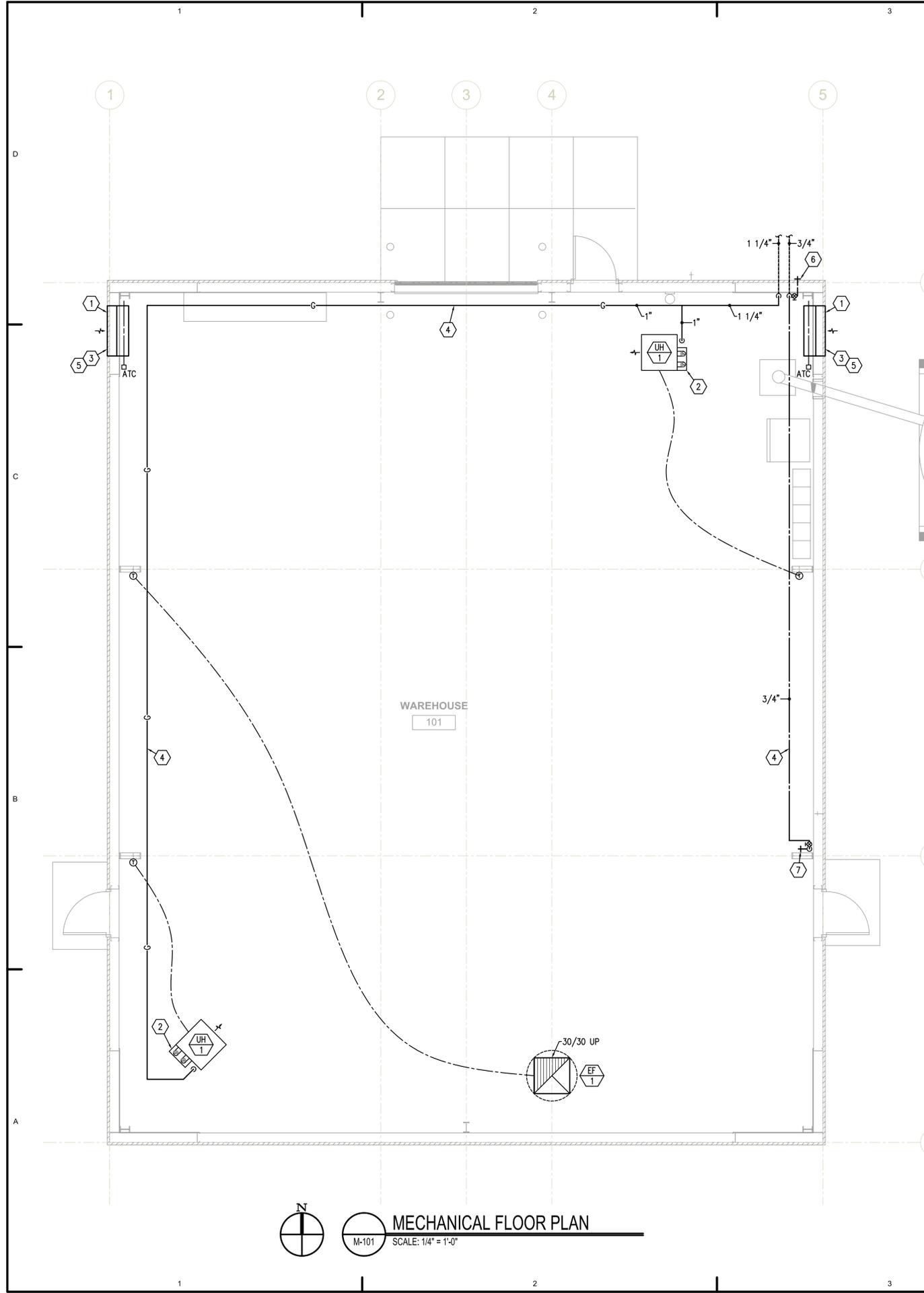
NEW METAL BUILDING
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1000 NORTH MAIN STREET
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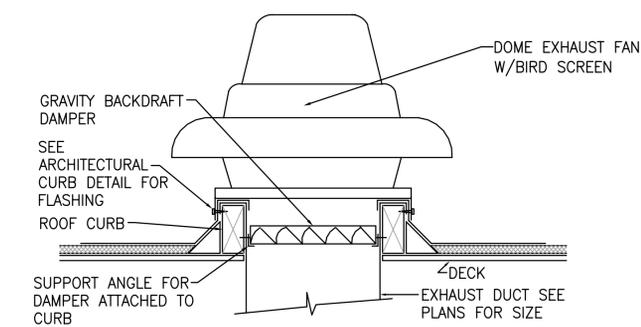
SHEET TITLE
SYMBOLS & LEGEND

M-000

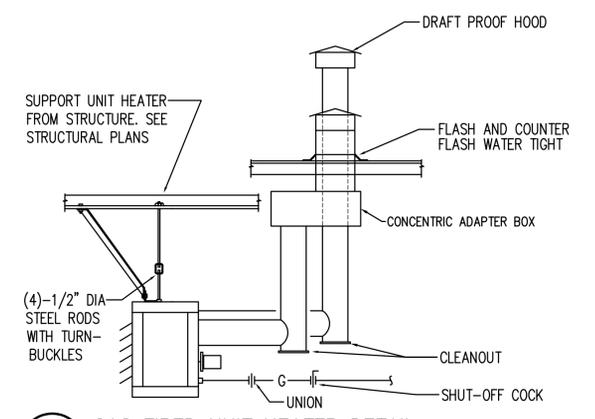


KEYED NOTES

- ① 42"x30" LOUVER WITH CONTROL DAMPER. INTERLOCK DAMPER CONTROLS WITH EXHAUST FAN CONTROL. SEE SPECIFICATION.
- ② TAKE FLUE AND COMBUSTION AIR VENTS THRU ROOF. PROVIDE AIR / COMBUSTION VENT CONCENTRIC ADAPTER.
- ③ MOUNT TOP OF LOUVER 11.5' A.F.F.
- ④ RUN PIPING AS HIGH AND TIGHT TO STRUCTURE AS POSSIBLE.
- ⑤ LOUVER TO BE PAINTED PER ARCHITECT'S RECOMMENDATIONS.
- ⑥ NON-FREEZE HYDRANT: SMITH 5609QT-WH WALL HYDRANT WITH WHEEL HANDLE AND INTEGRAL VACUUM BREAKER OR EQUIVALENT BY ZURN, WADE, JOSAM OR WATTS.
- ⑦ HOSE BIBB: SMITH 5609QT-WH WALL HYDRANT MINUS BREAKER PLATE WITH WHEEL HANDLE AND INTEGRAL VACUUM BREAKER OR EQUIVALENT BY ZURN, WADE, JOSAM OR WATTS.



1 EXHAUST FAN DETAIL
M-101 NO SCALE



2 GAS FIRED UNIT HEATER DETAIL
M-101 NO SCALE

GAS FIRED UNIT HEATER SCHEDULE													
ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	AIRFLOW RATE (CFM)	INPUT CAPACITY (BTU/H)	OUTPUT CAPACITY (BTU/H)	LEAVING THERMAL EFFICIENCY (%)	ELECTRICAL			PHYSICAL		NOTES
								MOTOR SIZE (HP)	MOTOR SPEED (RPM)	FLA	VOLTPH/PHZ	DIMENSIONS (LxWxH)	
UH-1	REZNOR UDAS 75	INTERIOR	HORIZONTAL	961	75,000	51,045	83	0.06	1550	3.3	120/1/60	27/27/15	1,2

1. UNIT SELECTION BASED ON AN ALTITUDE OF 4500 FT.
2. OUTPUT CAPACITY DERATED FOR ALTITUDE.

EXHAUST FAN SCHEDULE											
SYMBOL	MANUF. AND MODEL NO.	LOCATION	SERVICE	FAN		MOTOR					REMARKS
				TOTAL AIR FLOW RATE (CFM)	TOT. STATIC PRESSURE DROP (IN H2O)	BRAKE HORSE POWER	MOTOR HORSE POWER	MOTOR SPEED (RPM)	VOLTPH		
EF-1	COOK 245 ACEB	ROOF	BUILDING SPACE	7000	0.5	1.59	2	888	240/1	1	

1. UNIT SELECTION BASED ON AN ALTITUDE OF 4500 FT.
2. PROVIDE UNIT WITH TWO SPEEDS.

SCOTT P. EVANS
ARCHITECT
& ASSOCIATES P.C.

108 WEST CENTER STREET
BOUNTIFUL, UTAH 84010
PHONE (801) 298-1368
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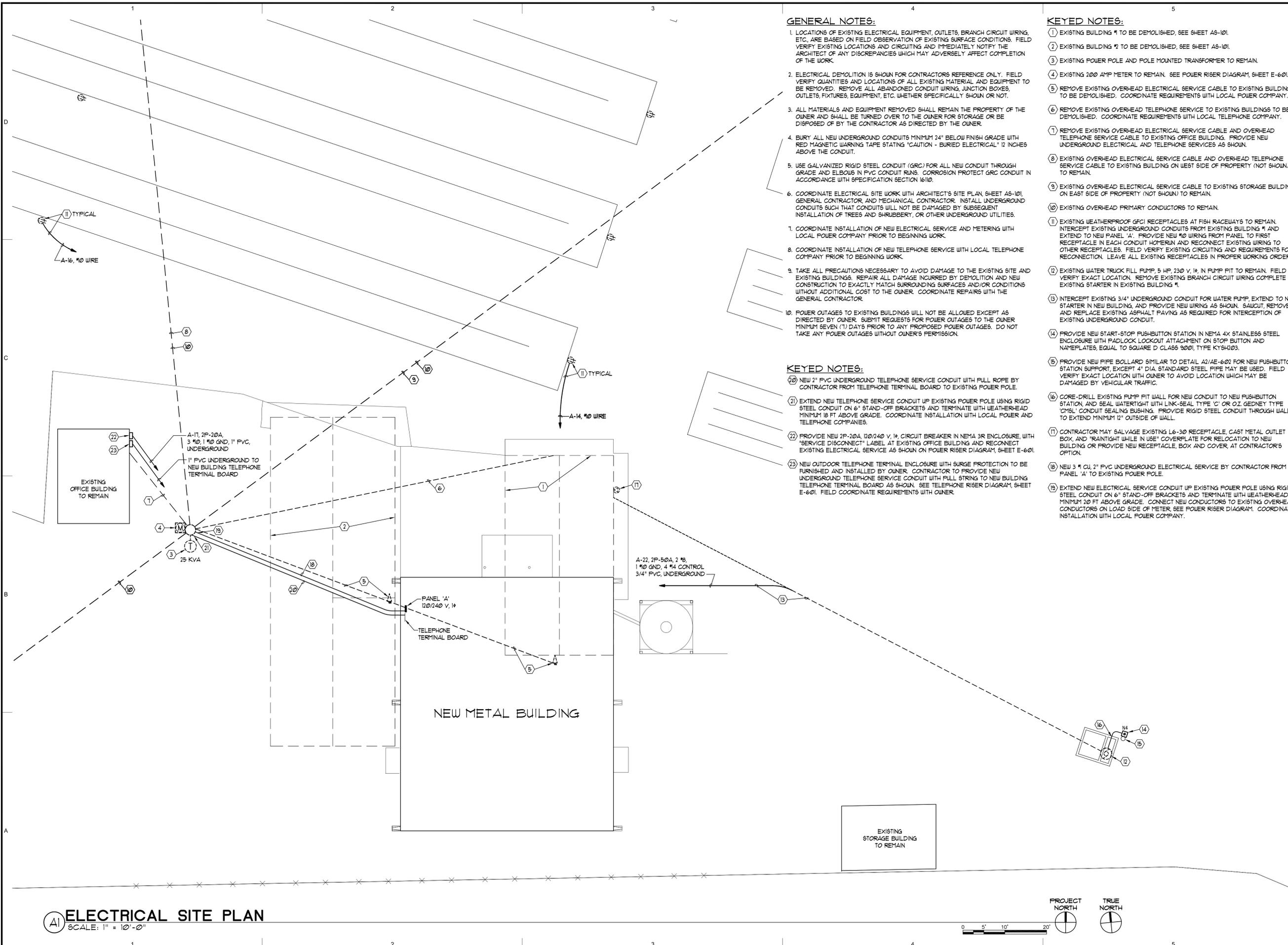
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SHEET TITLE
MECHANICAL FLOOR PLAN

M-101



GENERAL NOTES:

1. LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT, OUTLETS, BRANCH CIRCUIT WIRING, ETC., ARE BASED ON FIELD OBSERVATION OF EXISTING SURFACE CONDITIONS. FIELD VERIFY QUANTITIES AND LOCATIONS OF ALL EXISTING MATERIAL AND EQUIPMENT TO BE REMOVED. REMOVE ALL ABANDONED CONDUIT WIRING, JUNCTION BOXES, OUTLETS, FIXTURES, EQUIPMENT, ETC. WHETHER SPECIFICALLY SHOWN OR NOT.
2. ELECTRICAL DEMOLITION IS SHOWN FOR CONTRACTORS REFERENCE ONLY. FIELD VERIFY QUANTITIES AND LOCATIONS OF ALL EXISTING MATERIAL AND EQUIPMENT TO BE REMOVED. REMOVE ALL ABANDONED CONDUIT WIRING, JUNCTION BOXES, OUTLETS, FIXTURES, EQUIPMENT, ETC. WHETHER SPECIFICALLY SHOWN OR NOT.
3. ALL MATERIALS AND EQUIPMENT REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE TURNED OVER TO THE OWNER FOR STORAGE OR BE DISPOSED OF BY THE CONTRACTOR AS DIRECTED BY THE OWNER.
4. BURY ALL NEW UNDERGROUND CONDUITS MINIMUM 24" BELOW FINISH GRADE WITH RED MAGNETIC WARNING TAPE STATING "CAUTION - BURIED ELECTRICAL" 12" INCHES ABOVE THE CONDUIT.
5. USE GALVANIZED RIGID STEEL CONDUIT (GRC) FOR ALL NEW CONDUIT THROUGH GRADE AND ELBOWS IN PVC CONDUIT RUNS. CORROSION PROTECT GRC CONDUIT IN ACCORDANCE WITH SPECIFICATION SECTION 1610.
6. COORDINATE ELECTRICAL SITE WORK WITH ARCHITECT'S SITE PLAN, SHEET AS-101, GENERAL CONTRACTOR AND MECHANICAL CONTRACTOR. INSTALL UNDERGROUND CONDUITS SUCH THAT CONDUITS WILL NOT BE DAMAGED BY SUBSEQUENT INSTALLATION OF TREES AND SHRUBBERY, OR OTHER UNDERGROUND UTILITIES.
7. COORDINATE INSTALLATION OF NEW ELECTRICAL SERVICE AND METERING WITH LOCAL POWER COMPANY PRIOR TO BEGINNING WORK.
8. COORDINATE INSTALLATION OF NEW TELEPHONE SERVICE WITH LOCAL TELEPHONE COMPANY PRIOR TO BEGINNING WORK.
9. TAKE ALL PRECAUTIONS NECESSARY TO AVOID DAMAGE TO THE EXISTING SITE AND EXISTING BUILDINGS. REPAIR ALL DAMAGE INCURRED BY DEMOLITION AND NEW CONSTRUCTION TO EXACTLY MATCH SURROUNDING SURFACES AND/OR CONDITIONS WITHOUT ADDITIONAL COST TO THE OWNER. COORDINATE REPAIRS WITH THE GENERAL CONTRACTOR.
10. POWER OUTAGES TO EXISTING BUILDINGS WILL NOT BE ALLOWED EXCEPT AS DIRECTED BY OWNER. SUBMIT REQUESTS FOR POWER OUTAGES TO THE OWNER MINIMUM SEVEN (7) DAYS PRIOR TO ANY PROPOSED POWER OUTAGES. DO NOT TAKE ANY POWER OUTAGES WITHOUT OWNER'S PERMISSION.

KEYED NOTES:

- (20) NEW 2" PVC UNDERGROUND TELEPHONE SERVICE CONDUIT WITH FULL ROPE BY CONTRACTOR FROM TELEPHONE TERMINAL BOARD TO EXISTING POWER POLE.
- (21) EXTEND NEW TELEPHONE SERVICE CONDUIT UP EXISTING POWER POLE USING RIGID STEEL CONDUIT ON 6" STAND-OFF BRACKETS AND TERMINATE WITH WEATHERHEAD MINIMUM 18 FT ABOVE GRADE. COORDINATE INSTALLATION WITH LOCAL POWER AND TELEPHONE COMPANIES.
- (22) PROVIDE NEW 2P-20A, 120/240 V, 1φ CIRCUIT BREAKER IN NEMA 3R ENCLOSURE WITH "SERVICE DISCONNECT" LABEL AT EXISTING OFFICE BUILDING AND RECONNECT EXISTING ELECTRICAL SERVICE AS SHOWN ON POWER RISER DIAGRAM, SHEET E-601.
- (23) NEW OUTDOOR TELEPHONE TERMINAL ENCLOSURE WITH SURGE PROTECTION TO BE FURNISHED AND INSTALLED BY OWNER. CONTRACTOR TO PROVIDE NEW UNDERGROUND TELEPHONE SERVICE CONDUIT WITH FULL STRING TO NEW BUILDING TELEPHONE TERMINAL BOARD AS SHOWN. SEE TELEPHONE RISER DIAGRAM, SHEET E-601. FIELD COORDINATE REQUIREMENTS WITH OWNER.

KEYED NOTES:

- (1) EXISTING BUILDING #1 TO BE DEMOLISHED, SEE SHEET AS-101.
- (2) EXISTING BUILDING #2 TO BE DEMOLISHED, SEE SHEET AS-101.
- (3) EXISTING POWER POLE AND POLE MOUNTED TRANSFORMER TO REMAIN.
- (4) EXISTING 200 AMP METER TO REMAIN. SEE POWER RISER DIAGRAM, SHEET E-601.
- (5) REMOVE EXISTING OVERHEAD ELECTRICAL SERVICE CABLE TO EXISTING BUILDINGS TO BE DEMOLISHED. COORDINATE REQUIREMENTS WITH LOCAL POWER COMPANY.
- (6) REMOVE EXISTING OVERHEAD TELEPHONE SERVICE TO EXISTING BUILDINGS TO BE DEMOLISHED. COORDINATE REQUIREMENTS WITH LOCAL TELEPHONE COMPANY.
- (7) REMOVE EXISTING OVERHEAD ELECTRICAL SERVICE CABLE AND OVERHEAD TELEPHONE SERVICE CABLE TO EXISTING OFFICE BUILDING. PROVIDE NEW UNDERGROUND ELECTRICAL AND TELEPHONE SERVICES AS SHOWN.
- (8) EXISTING OVERHEAD ELECTRICAL SERVICE CABLE AND OVERHEAD TELEPHONE SERVICE CABLE TO EXISTING BUILDING ON WEST SIDE OF PROPERTY (NOT SHOWN) TO REMAIN.
- (9) EXISTING OVERHEAD ELECTRICAL SERVICE CABLE TO EXISTING STORAGE BUILDING ON EAST SIDE OF PROPERTY (NOT SHOWN) TO REMAIN.
- (10) EXISTING OVERHEAD PRIMARY CONDUCTORS TO REMAIN.
- (11) EXISTING WEATHERPROOF GFCI RECEPTACLES AT FISH RACEWAYS TO REMAIN. INTERCEPT EXISTING UNDERGROUND CONDUITS FROM EXISTING BUILDING #1 AND EXTEND TO NEW PANEL 'A'. PROVIDE NEW #10 WIRING FROM PANEL TO FIRST RECEPTACLE IN EACH CONDUIT HOMERUN AND RECONNECT EXISTING WIRING TO OTHER RECEPTACLES. FIELD VERIFY EXISTING CIRCUITING AND REQUIREMENTS FOR RECONNECTION. LEAVE ALL EXISTING RECEPTACLES IN PROPER WORKING ORDER.
- (12) EXISTING WATER TRUCK FILL PUMP, 5 HP, 230 V, 1φ, IN PUMP PIT TO REMAIN. FIELD VERIFY EXACT LOCATION. REMOVE EXISTING BRANCH CIRCUIT WIRING COMPLETE TO EXISTING STARTER IN EXISTING BUILDING #1.
- (13) INTERCEPT EXISTING 3/4" UNDERGROUND CONDUIT FOR WATER PUMP, EXTEND TO NEW STARTER IN NEW BUILDING, AND PROVIDE NEW WIRING AS SHOWN. SAWCUT, REMOVE, AND REPLACE EXISTING ASPHALT PAVING AS REQUIRED FOR INTERCEPTION OF EXISTING UNDERGROUND CONDUIT.
- (14) PROVIDE NEW START-STOP PUSHBUTTON STATION IN NEMA 4X STAINLESS STEEL ENCLOSURE WITH PADLOCK LOCKOUT ATTACHMENT ON STOP BUTTON AND NAMEPLATES, EQUAL TO SQUARE D CLASS 3001, TYPE KY94203.
- (15) PROVIDE NEW PIPE BOLLARD SIMILAR TO DETAIL A2/AE-602 FOR NEW PUSHBUTTON STATION SUPPORT, EXCEPT 4" DIA. STANDARD STEEL PIPE MAY BE USED. FIELD VERIFY EXACT LOCATION WITH OWNER TO AVOID LOCATION WHICH MAY BE DAMAGED BY VEHICULAR TRAFFIC.
- (16) CORE-DRILL EXISTING PUMP PIT WALL FOR NEW CONDUIT TO NEW PUSHBUTTON STATION, AND SEAL WATER TIGHT WITH LINK-SEAL TYPE 'C' OR OZ. GEDNEY TYPE 'CMBL' CONDUIT SEALING BUSHING. LINK RIGID STEEL CONDUIT THROUGH WALL TO EXTEND MINIMUM 12" OUTSIDE OF WALL.
- (17) CONTRACTOR MAY SALVAGE EXISTING L6-30 RECEPTACLE, CAST METAL OUTLET BOX, AND "RAINTIGHT WHILE IN USE" COVERPLATE FOR RELOCATION TO NEW BUILDING OR PROVIDE NEW RECEPTACLE, BOX AND COVER, AT CONTRACTOR'S OPTION.
- (18) NEW 3 #1 CU, 2" PVC UNDERGROUND ELECTRICAL SERVICE BY CONTRACTOR FROM PANEL 'A' TO EXISTING POWER POLE.
- (19) EXTEND NEW ELECTRICAL SERVICE CONDUIT UP EXISTING POWER POLE USING RIGID STEEL CONDUIT ON 6" STAND-OFF BRACKETS AND TERMINATE WITH WEATHERHEAD MINIMUM 20 FT ABOVE GRADE. CONNECT NEW CONDUCTORS TO EXISTING OVERHEAD CONDUCTORS ON LOAD SIDE OF METER. SEE POWER RISER DIAGRAM. COORDINATE INSTALLATION WITH LOCAL POWER COMPANY.

SCOTT P. EVANS
ARCHITECT
& ASSOCIATES P.C.

108 WEST CENTER STREET
BOUNTIFUL, UTAH 84010

PHONE (801) 298-1368
FAX (801) 298-2192

E-MAIL info@spe-architect.com
WEB: www.spe-architect.com

PROFESSIONAL SEAL

CONSULTANTS

STRUCTURAL ENGINEER:
BHB ENGINEERING

MECHANICAL ENGINEER
VBFA ENGINEERS

ELECTRICAL ENGINEER:
THOMAS & KOLKMAN

**NEW METAL BUILDING
SPRINGVILLE HATCHERY**

1000 NORTH MAIN STREET
SPRINGVILLE, UTAH 84663

MARK	DATE	DESCRIPTION
5/15/06	CONSTRUCTION DOC	

OWNER PROJECT #	06074500
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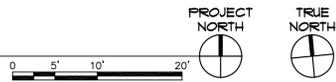
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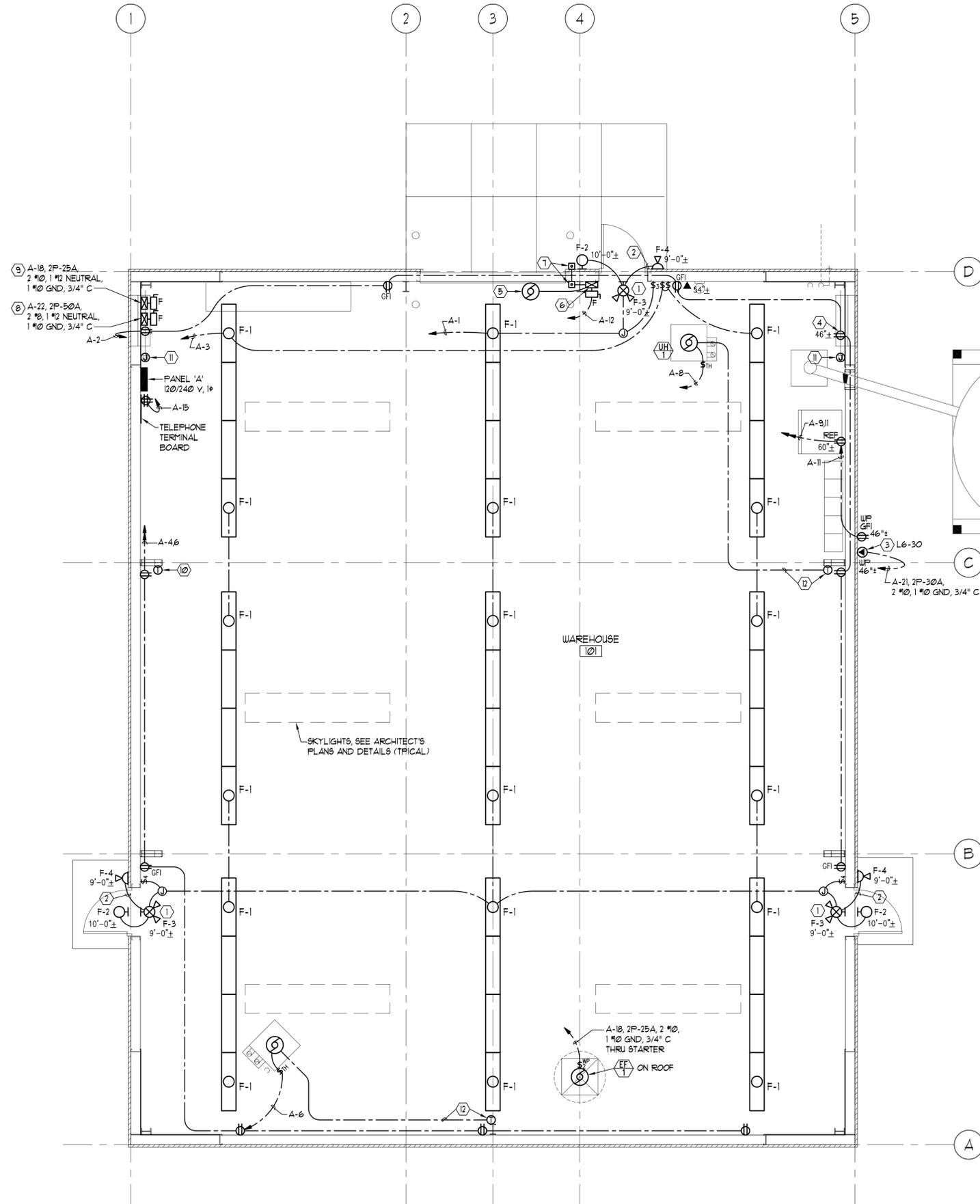
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**ELECTRICAL
SITE PLAN
AND NOTES**

ES101

A1 ELECTRICAL SITE PLAN
SCALE: 1" = 10'-0"

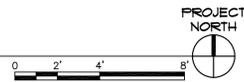




- GENERAL NOTES:**
- COORDINATE FIXTURE LOCATIONS WITH ARCHITECT'S REFLECTED CEILING PLAN, CEILING CONTRACTOR, BUILDING STRUCTURE, MECHANICAL EQUIPMENT & DUCTWORK LOCATIONS, ETC.
 - SECURE F-1 FIXTURES TO THE BOTTOM OF EXPOSED ROOF FURLINS OR TO UNISTRUT SPANS BETWEEN THE ROOF FURLINS AS REQUIRED.
 - CONNECT F-3 EXIT/EMERGENCY LIGHT FIXTURES TO THE SAME BRANCH CIRCUIT AS THE GENERAL ROOM LIGHTING, AHEAD OF ANY LOCAL SWITCHES.
 - COORDINATE MECHANICAL EQUIPMENT LOCATIONS WITH MECHANICAL PLANS AND MECHANICAL CONTRACTOR.
 - FIELD COORDINATE LOCATION OF ALL NEW RECEPTACLES AND OUTLETS WITH OWNER'S EQUIPMENT LOCATIONS PRIOR TO ROUGHING IN.
 - WHERE BRANCH CIRCUIT HOMERUNS INDICATE WIRE SIZES, USE THAT SIZE WIRE THROUGHOUT THE BRANCH CIRCUIT, INCLUDING SWITCH LEGS, ETC.

- KEYED NOTES:**
- EXIT LIGHT WITH BATTERY CAPACITY FOR REMOTE EXTERIOR EMERGENCY LIGHTING. SEE FIXTURE SCHEDULE.
 - 2 #2, 3/4" C, 6 VDC, FROM EXTERIOR EMERGENCY LIGHT LAMP TO EXIT LIGHT BATTERY. DO NOT INSTALL ANY OTHER WIRING IN THE RACEWAY SYSTEM WITH THE EMERGENCY LIGHTING BRANCH CIRCUIT.
 - PROVIDE RECEPTACLE FOR FEED HOPPER FILL ELEVATOR. FIELD COORDINATE EXACT LOCATION WITH OWNER. RECEPTACLE MAY BE SALVAGED FROM EXISTING BUILDING INCLUDING CAST METAL OUTLET BOX AND "RAINTIGHT WHILE IN USE" COVERPLATE, OR PROVIDE NEW RECEPTACLE, BOX, AND COVERPLATE.
 - PROVIDE DUPLEX RECEPTACLE FOR OWNER'S FEED SCALE. FIELD COORDINATE EXACT LOCATION WITH OWNER.
 - OVERHEAD DOOR MOTOR, 1/2 HP, 120 V, 1φ. VERIFY ELECTRICAL SERVICE WITH GENERAL CONTRACTOR AND OVERHEAD DOOR SUPPLIER PRIOR BEGINNING WORK.
 - OVERHEAD DOOR MOTOR STARTER FURNISHED WITH OVERHEAD DOOR, TO BE INSTALLED AND WIRED COMPLETE BY ELECTRICAL CONTRACTOR INCLUDING CONNECTIONS TO SAFETY STOPS, LIMIT SWITCHES, ETC. COORDINATE REQUIREMENTS WITH OVERHEAD DOOR SUPPLIER.
 - OVERHEAD DOOR "OPEN-CLOSE-STOP" PUSHBUTTONS FURNISHED WITH OVERHEAD DOOR, TO BE INSTALLED AND WIRED COMPLETE BY ELECTRICAL CONTRACTOR. COORDINATE REQUIREMENTS WITH OVERHEAD DOOR SUPPLIER.
 - SIZE 2 FVAR, SINGLE PHASE MAGNETIC STARTER AND FUSED SAFETY SWITCH FOR EXISTING WATER TRUCK FILL PUMP. SEE ELECTRICAL SITE PLAN SHEET E9101 FOR APPROXIMATE PUMP LOCATION AND RECONNECTION. PROVIDE STARTER WITH CONTROL CIRCUIT FUSE HOLDER AND 10 AMP FUSE, "OFF-AUTO" SELECTOR SWITCH, AND RED "ON" PILOT LIGHT. PROVIDE REMOTE START-STOP PUSHBUTTON STATION AT PUMP AS SHOWN ON ELECTRICAL SITE PLAN, SHEET E9101. CONNECT PUSHBUTTON STATION THROUGH "AUTO" POSITION OF SELECTOR SWITCH.
 - SIZE 1 FVAR, SINGLE PHASE MAGNETIC STARTER AND FUSED SAFETY SWITCH FOR EXHAUST FAN EFF1. PROVIDE STARTER WITH CONTROL CIRCUIT FUSE HOLDER AND 10 AMP FUSE, "HAND-OFF-AUTO" SELECTOR SWITCH, AND RED "ON" PILOT LIGHT.
 - LINE VOLTAGE (120 VOLT) THERMOSTAT TO CONTROL EXHAUST FAN EFF1, FURNISHED BY MECHANICAL CONTRACTOR, TO BE INSTALLED AND WIRED COMPLETE BY ELECTRICAL CONTRACTOR. CONNECT THROUGH "AUTO" POSITION OF "H-O-A" SWITCH IN STARTER.
 - 120 VOLT DAMPER ON INTAKE AIR LOUVER FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR TO BE WIRED COMPLETE BY ELECTRICAL CONTRACTOR. CONNECT THROUGH NORMALLY OPEN AUXILIARY CONTACT ON EXHAUST FAN STARTER.
 - ELECTRICAL CONTRACTOR TO PROVIDE 1/2" CONDUIT FOR LOW VOLTAGE THERMOSTAT AND CLASS 2 CONTROL WIRING TO BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR FOR CONTROL OF UNIT HEATER. FIELD COORDINATE REQUIREMENTS WITH MECHANICAL CONTRACTOR.

A2 ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"



SCOTT P. EVANS
ARCHITECT
& ASSOCIATES P.C.

108 WEST CENTER STREET
BOUNTIFUL, UTAH 84010

PHONE (801) 298-1368
FAX (801) 298-2192
E-MAIL info@spe-architect.com
WEB: www.spe-architect.com

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CONSULTANTS

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**NEW METAL BUILDING
SPRINGVILLE HATCHERY**

1000 NORTH MAIN STREET
SPRINGVILLE, UTAH 84663

MARK	DATE	DESCRIPTION
5/15/06	CONSTRUCTION DOC	

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SHEET TITLE
**ELECTRICAL PLAN
AND NOTES**

E-101

FIXTURE SCHEDULE

SYMBOL	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	LAMP
F-1	COLUMBIA DAY-BRITE LIGHTOLIER LITHONIA METALUX WILLIAMS	CSR8-232-U-4EB8LH-120 T1A-232-120-1/4-EB101 KWA-232-120-H4 TLA-232-120-1/4-GE101S 8T1A-232-120-TE881 81-8-432-UL-EBLH4-120	8 FT. 2 LAMP ROW, TANDEM, SURFACE MOUNTED INDUSTRIAL FLUORESCENT FIXTURE WITH OPEN ELECTRIC, AND ONE 4 LAMP, (10% THD), 120 VOLT ELECTRONIC BALLAST.	4F32T8/TL835
F-2	DAY-BRITE EXCELLINE HUBBELL LITHONIA LSI INDUSTRIES LUMARK	WLP-100S-MT/PEC-MT 323-100X-L-P150A-120 PGM-100S-128-1/PBT-1 TWH-100S-120-PE EG2-WB-100HPS-PG-MT-BRZ-PCE120 HPWL-100-120V-PE	WALL MOUNTED HIGH PRESSURE SODIUM 'WALLPACK' WITH CAST ALUMINUM HOUSING, TEMPERED PRISMATIC GLASS LENS, DARK BRONZE FINISH, 120 VOLT HIGH POWER FACTOR BALLAST, AND 120 VOLT PHOTOCELL.	100 W HPS
F-3	CHLORIDE LIGHTGUARD MCPHILBEN	S-25L-H7-1-G-W-ADTD U-25L-H7-1-G-W-DTDD CCTXL-R-1-G-W-H-TD	WALL MOUNT, SINGLE FACE, LIGHT EMITTING DIODE (LED) EXIT LIGHT WITH WHITE THERMOPLASTIC HOUSING, GREEN LETTERS ON STENCIL FACE, TWO 6 VOLT, 6 WATT (MINIMUM) HALOGEN EMERGENCY LIGHT LAMP HEADS, 24 WATT LEAD CALCIUM BATTERY PACK WITH CAPACITY FOR REMOTE FIXTURES, SELF-DIAGNOSTIC CIRCUITRY, 15 MINUTE HID TIME DELAY, AND 120/277 VOLT INPUT.	FURNISHED W/ FIXTURE
F-4	CHLORIDE LIGHTGUARD MCPHILBEN	ZZ-CRMP1 XZG-CRMP1 PXM-MP1WT	WALL MOUNTED REMOTE EMERGENCY LIGHT FIXTURE WITH ONE 12 WATT 12 VOLT HALOGEN LAMP, WEATHERPROOF MOUNTING PLATE, AND GRAY FINISH. SUITABLE FOR OUTDOOR USE.	FURNISHED W/ FIXTURE

EQUIPMENT SCHEDULE

EQUIP. NO.	DESCRIPTION	CIRCUIT NUMBER	VOLTS	PHASE	WATTS HP.	BREAKER	STARTERS FURNISH/INSTALL	AUX. CONT.	LOCATION
UH 1	GAS FIRED UNIT HEATER (2)	A-6 A-8	120	1	3.3 FLA	1P-15A	E E	\$TH	WAREHOUSE 101
EF 1	EXHAUST FAN	A-18	240	1	2 HP	2P-25A	E E	1 2 N.O. FVNR 2 N.C.	ON ROOF WAREHOUSE 101

E - ELECTRICAL CONTRACTOR
M - MECHANICAL CONTRACTOR

CIR. NO.		BRKR	DESCRIPTION	NO. LTS	NO. REC	CIRCUIT LOAD	LOAD - VA	PHASE A	PHASE B	CIRCUIT LOAD	NO. REC	NO. LTS	DESCRIPTION	BRKR	P	AMPS	CIR. NO.	
1	1	20	LTS, CENTER, EXIT & EXTERIOR	12		1,140	2,220			1,080	6		REC, NORTH & EAST	1	20	2		
3			LTS, EAST & WEST ROWS	12		1,440			2,340	900	5		REC, WEST & SOUTH	1	20	4		
5			SPARE				395			395			UNIT HEATER, SOUTHWEST	1	15	6		
7			SPARE						395	395			UNIT HEATER, NORTHEAST	1	15	8		
9			REC, REFRIG - EAST WALL	1		180	180						SPARE	1	20	10		
11			REC, OUTSIDE AT HOPPER	1		180			1,355	1,175			OVERHEAD DOOR MOTOR			12		
13			SPARE				900			900	5		REC, OUTSIDE AT FISH RACES			14		
15	1	20	REC, TELE TERMINAL BOARD	2		360			1,260	900	5		REC, OUTSIDE AT FISH RACES	1	20	16		
17	2	20	OFFICE BUILDING			1,200	2,580			1,380			EXHAUST FAN EF/1	2	25	18		
19	-	-				0			1,380	1,380						20		
21	2	30	FEED HOPPER REC, OUTSIDE			1,380	4,600			3,220			OUTSIDE WATER TRUCK PUMP	2	50	22		
23	-	-				0			4,600	3,220						24		
25	1		SPACE			0							SPACE	1		26		
27	1		SPACE			0				0			SPACE	1		28		
29	1		SPACE			0				0			SPACE	1		30		
							10,875			11,330								
TOTAL CONNECTED LOAD:				22,205 VA			93 AMPS			FEEDER: 3 #1, 2" C								
CALCULATED FEEDER DEMAND, NEC 220:				24,760 VA			103 AMPS											

PANEL 'A'
TYPE 'NDDP', BOLT-ON
2 POLE 125 AMP MAIN BREAKER

SERVICE ENTRANCE LABEL REQUIRED
10,000 A. I. C., FULLY RATED
120/240 VOLT, 1 PHASE, 3 WIRE
SURFACE MOUNTED

SYMBOL LIST

SYMBOL	DESCRIPTION
○	CEILING MOUNTED FIXTURE
○	WALL MOUNTED FIXTURE
○	FLUORESCENT FIXTURE
⊕	EXIT LIGHT COMBINATION WITH EMERGENCY LIGHT LAMP HEADS
⊕	REMOTE EMERGENCY LIGHT INDICATING QUANTITY OF LAMP HEADS
⊕	SINGLE POLE SWITCH
⊕	THREE WAY SWITCH
⊕	FOUR WAY SWITCH
⊕	JUNCTION BOX
⊕	DUPLEX RECEPTACLE
⊕	DOUBLE DUPLEX RECEPTACLE
⊕	RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER
⊕ L6-30	SPECIAL PURPOSE RECEPTACLE WITH NEMA DESIGNATION
⊕	EXISTING DUPLEX RECEPTACLE
⊕ L6-30	EXISTING SPECIAL PURPOSE RECEPTACLE WITH NEMA DESIGNATION
⊕	TELEPHONE OUTLET
⊕	POWER PANELBOARD, 120/240 VOLT, 1 PHASE
⊕	EXISTING METER
⊕	NEW WEATHERHEAD
⊕	EXISTING WEATHERHEAD
⊕	1 PHASE, 3 WIRE HOMERUN INDICATING PANEL AND CIRCUIT NUMBERS
⊕	BRANCH CIRCUIT CONCEALED IN FLOOR, WALL, OR CEILING
⊕	BRANCH CIRCUIT EXPOSED ON WALL OR CEILING
⊕	EXISTING BRANCH CIRCUIT
⊕	NEW MOTOR
⊕	EXISTING MOTOR
⊕	MAGNETIC MOTOR STARTER
⊕	SAFETY SWITCH, 'F' INDICATES FUSED, 'NF' INDICATES NON-FUSED
⊕	MANUAL MOTOR STARTING SWITCH W/ THERMAL OVERLOAD PROTECTION
⊕	DOUBLE POLE MANUAL MOTOR STARTING SWITCH WITHOUT THERMAL PROTECTION
⊕	FUSEBUSTION STATION
⊕	THERMOSTAT
⊕	EQUIPMENT SCHEDULE SYMBOL
F-2	FIXTURE SCHEDULE SYMBOL
⊕	REFERENCE NOTE SYMBOL
⊕	ROOM NUMBER
⊕	INDICATES ITEM IN WEATHERPROOF (NEMA 3R MINIMUM) ENCLOSURE
N4	INDICATES ITEM IN NEMA 4X STAINLESS STEEL ENCLOSURE

SCOTT P. EVANS
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& ASSOCIATES P.C.



108 WEST CENTER STREET
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PHONE (801) 298-1368
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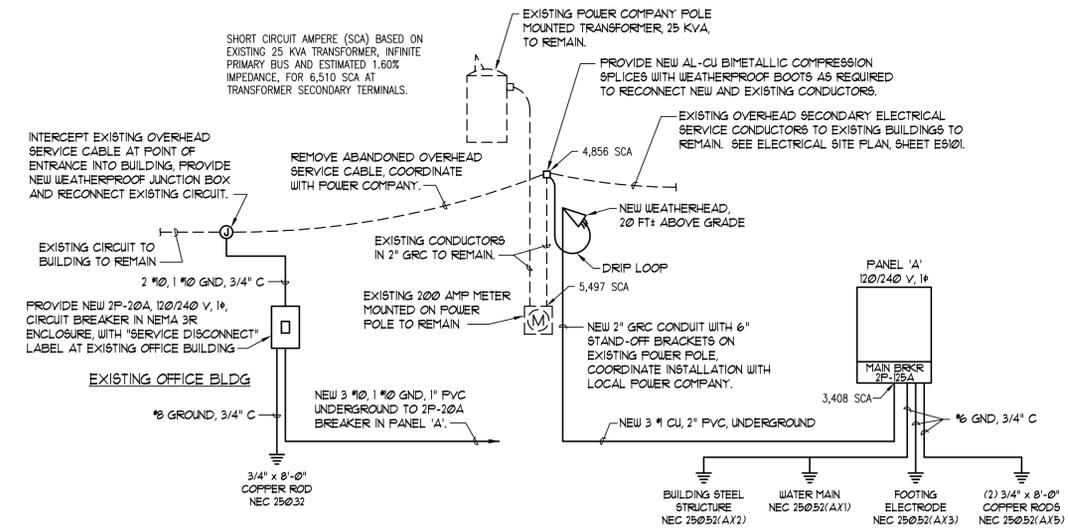
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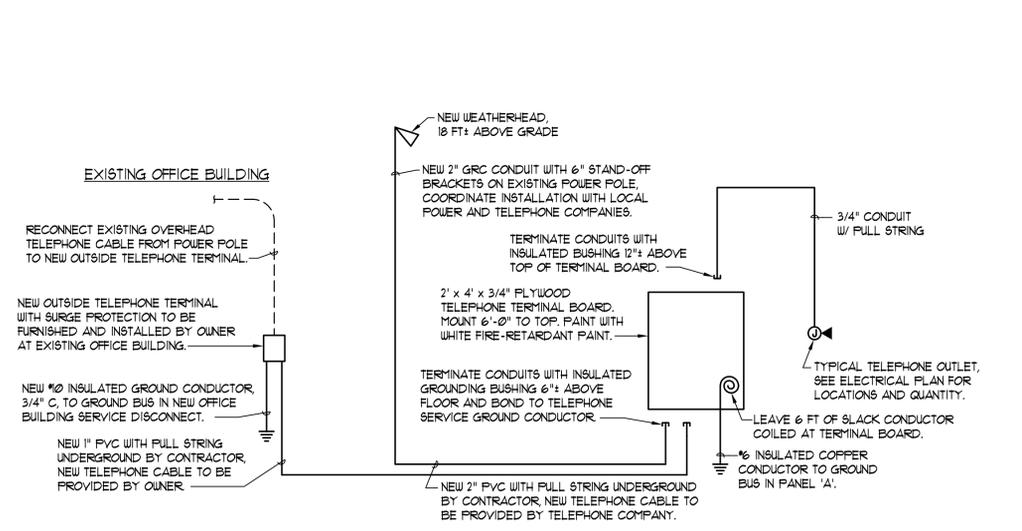
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E-601



A2 POWER RISER DIAGRAM
SCHEMATIC



A4 TELEPHONE RISER DIAGRAM
SCHEMATIC