

	LEGEND	)	ВУ					
			DATE					
PART #	SIZE	QUANTITY						_
C-1	10"x10"x1/4"	1						
C-2	10"x10"x1/4"	1	N S					
C-3	10"x10"x1/4"	1	DESCRIPTION					
C-4	10"x10"x1/4"	1	SCRI					
C-5	10"x10"x1/4"	1	DES					
C-6	10"x10"x1/4"	1						
C-7	10"x10"x1/4"	1	<u> </u>					
C-8	10"x10"x1/4"	1	REV					
C-9	10"x10"x1/4"	1		022	MS	/FK		9
C-10	10"x10"x1/4"	1	AS NOTED	08/02/2022	G. WILLIAMS	SC/SH/FK		19367-DO
CB-1	W8X10#	5	AS	08/(	M	SC		9
P-1	W10X12#	6			G.	$ $ _ $ $		
P-2	W10X12#	3			ВУ	D BY		# UNI
Ç	SHEET NOTE	ES	щ	 	WN BY	CKED		Ĭ

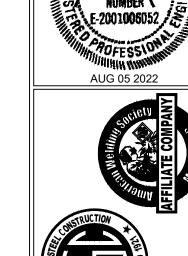
SHEET NOTES

ALL CONDUITS INSIDE COLUMNS WILL REQUIRE A 3"X5" INSPECTION HOLE TO BE SHOP CUT AND LOCATED WITH ITS CENTERLINE AT THE TOP OF THE SEAL OFF. ALL COLUMNS, WITH OR WITHOUT CONDUITS, WILL HAVE A STANDARD ARNING COVERPLATE INSTALLED AT THE SAME ELEVATION. TOUCH-UP PRIMER AT THE INSPECTION HOLE OPENING AFTER SHOP CUTS HAVE BEEN COMPLETED.



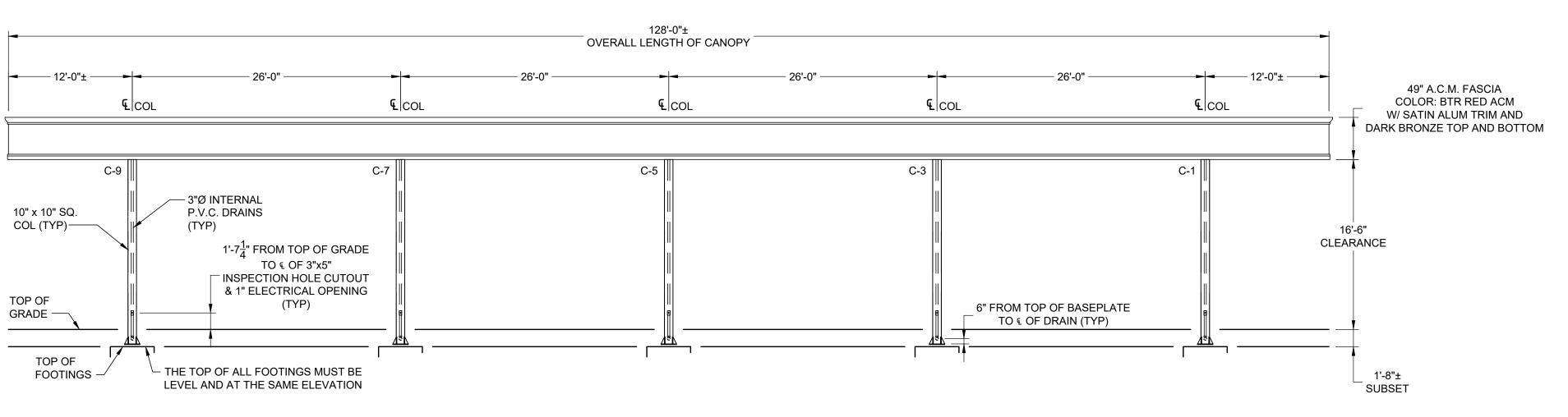




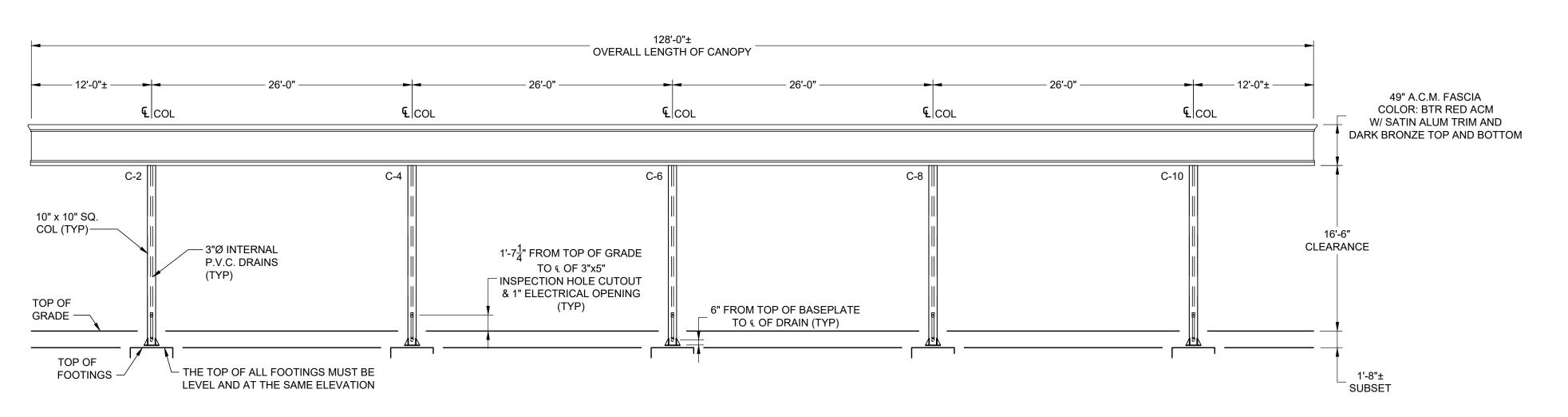


FRAMING & FOUNDATION PLAN

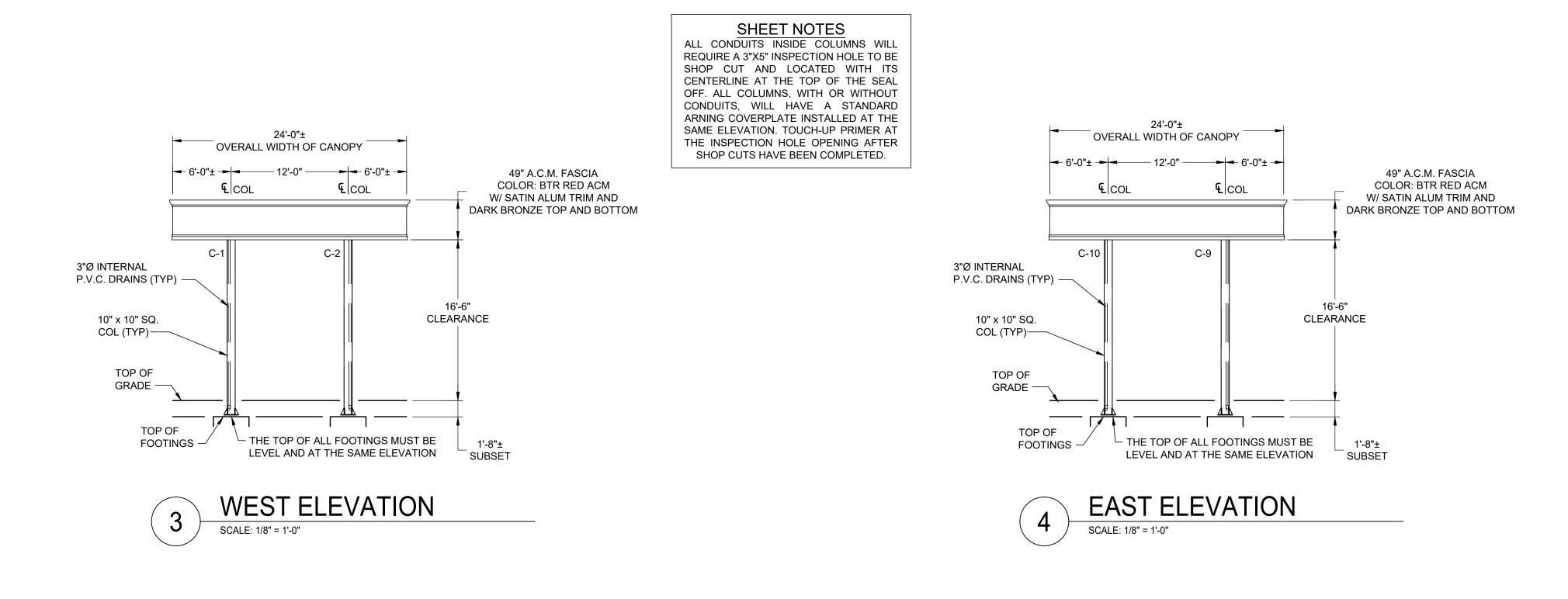
# COLUMNS WITH VENT LINES WILL REQUIRE RED INSPECTION HOLE COVERS



# 1 NORTH ELEVATION SCALE: 1/8" = 1'-0"

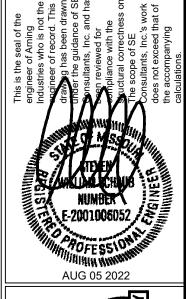


# SOUTH ELEVATION SCALE: 1/8" = 1'-0"



 SCALE
 AS NOTED
 REV
 DESCRIPTION
 DATE
 B

 DATE
 08/02/2022
 ARVILLIAMS
 ARNING # 19367-DO
 A





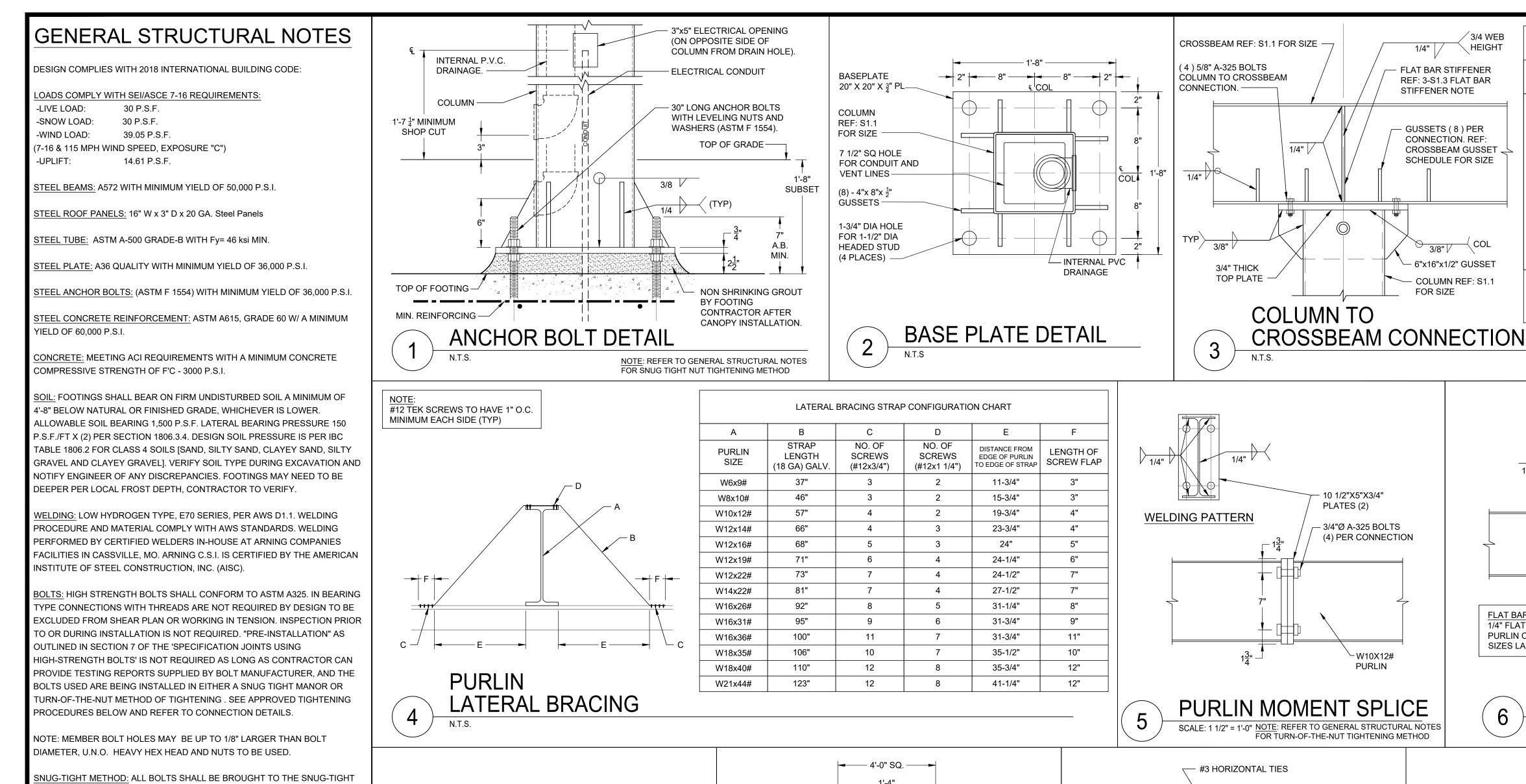


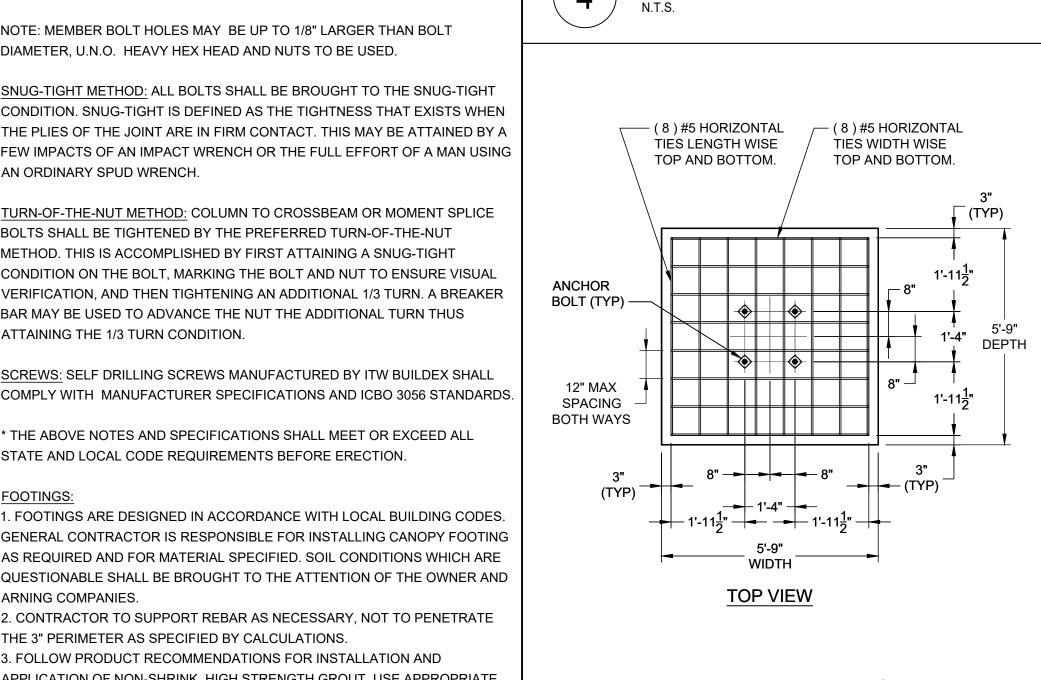
BOB SELBY CASEY'S GENERAL STORES 3305 SE DELAWARE AVE ANKENY, IA 50021

24'-0" X 128'-0" ( 10 ) COLUMN CANOPY
CANOPY LOCATION
CASEY'S
(GAS CANOPY)

CANOPY ELEVATIONS

19367 S1.2





CONDITION. SNUG-TIGHT IS DEFINED AS THE TIGHTNESS THAT EXISTS WHEN

THE PLIES OF THE JOINT ARE IN FIRM CONTACT. THIS MAY BE ATTAINED BY heta

FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A MAN USING

TURN-OF-THE-NUT METHOD: COLUMN TO CROSSBEAM OR MOMENT SPLICE

CONDITION ON THE BOLT, MARKING THE BOLT AND NUT TO ENSURE VISUAL

VERIFICATION, AND THEN TIGHTENING AN ADDITIONAL 1/3 TURN. A BREAKER

SCREWS: SELF DRILLING SCREWS MANUFACTURED BY ITW BUILDEX SHALL

 $^{\scriptscriptstyle\mathsf{t}}$  THE ABOVE NOTES AND SPECIFICATIONS SHALL MEET OR EXCEED ALL

FOOTINGS ARE DESIGNED IN ACCORDANCE WITH LOCAL BUILDING CODES.

GENERAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING CANOPY FOOTING

AS REQUIRED AND FOR MATERIAL SPECIFIED. SOIL CONDITIONS WHICH ARE

QUESTIONABLE SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND

2. CONTRACTOR TO SUPPORT REBAR AS NECESSARY, NOT TO PENETRATE

APPLICATION OF NON-SHRINK, HIGH STRENGTH GROUT. USE APPROPRIATE

3. FOLLOW PRODUCT RECOMMENDATIONS FOR INSTALLATION AND

PSI GROUT STRENGTH TO ACHIEVE NEEDED APPLICATION DEPTH.

STATE AND LOCAL CODE REQUIREMENTS BEFORE ERECTION.

THE 3" PERIMETER AS SPECIFIED BY CALCULATIONS.

BOLTS SHALL BE TIGHTENED BY THE PREFERRED TURN-OF-THE-NUT

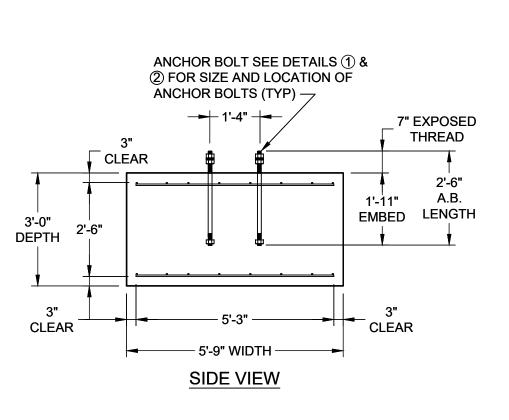
METHOD. THIS IS ACCOMPLISHED BY FIRST ATTAINING A SNUG-TIGHT

BAR MAY BE USED TO ADVANCE THE NUT THE ADDITIONAL TURN THUS

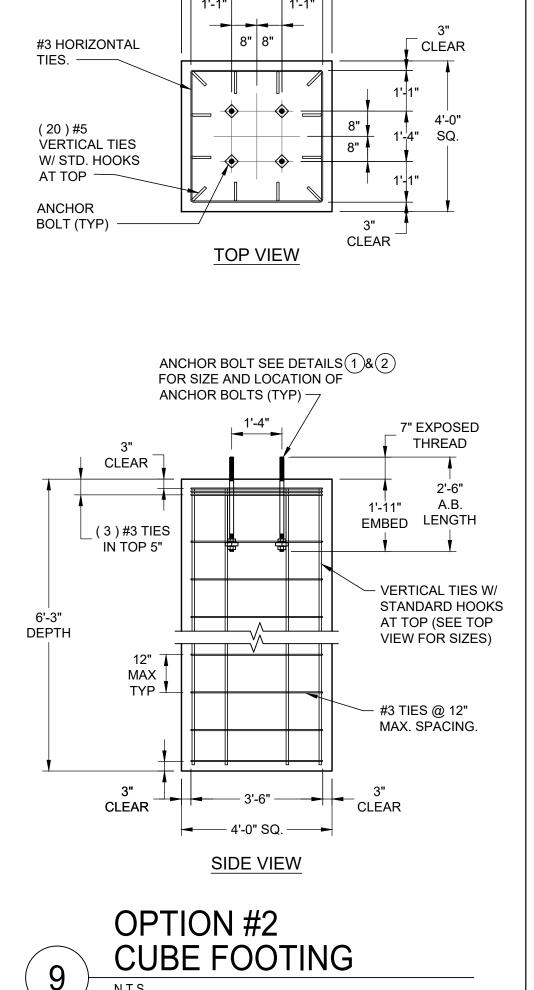
AN ORDINARY SPUD WRENCH.

ATTAINING THE 1/3 TURN CONDITION.

ARNING COMPANIES.

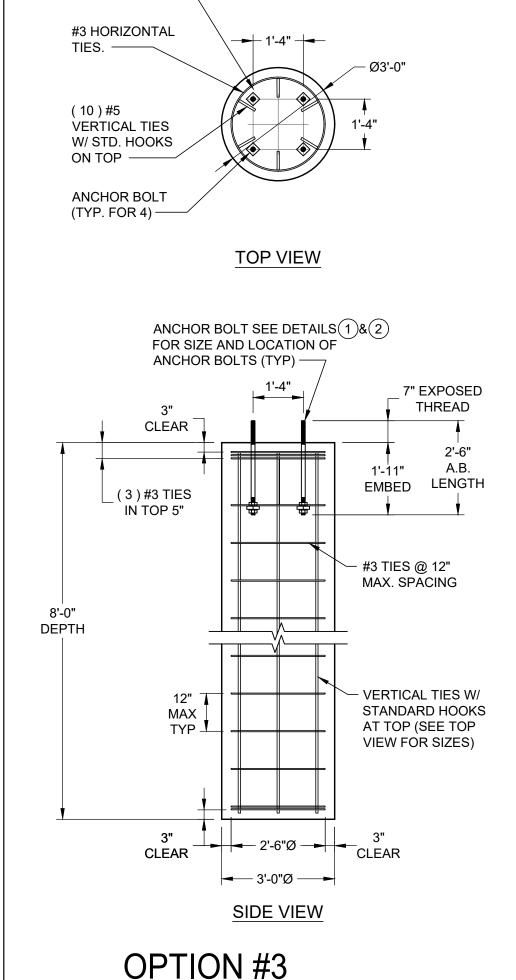




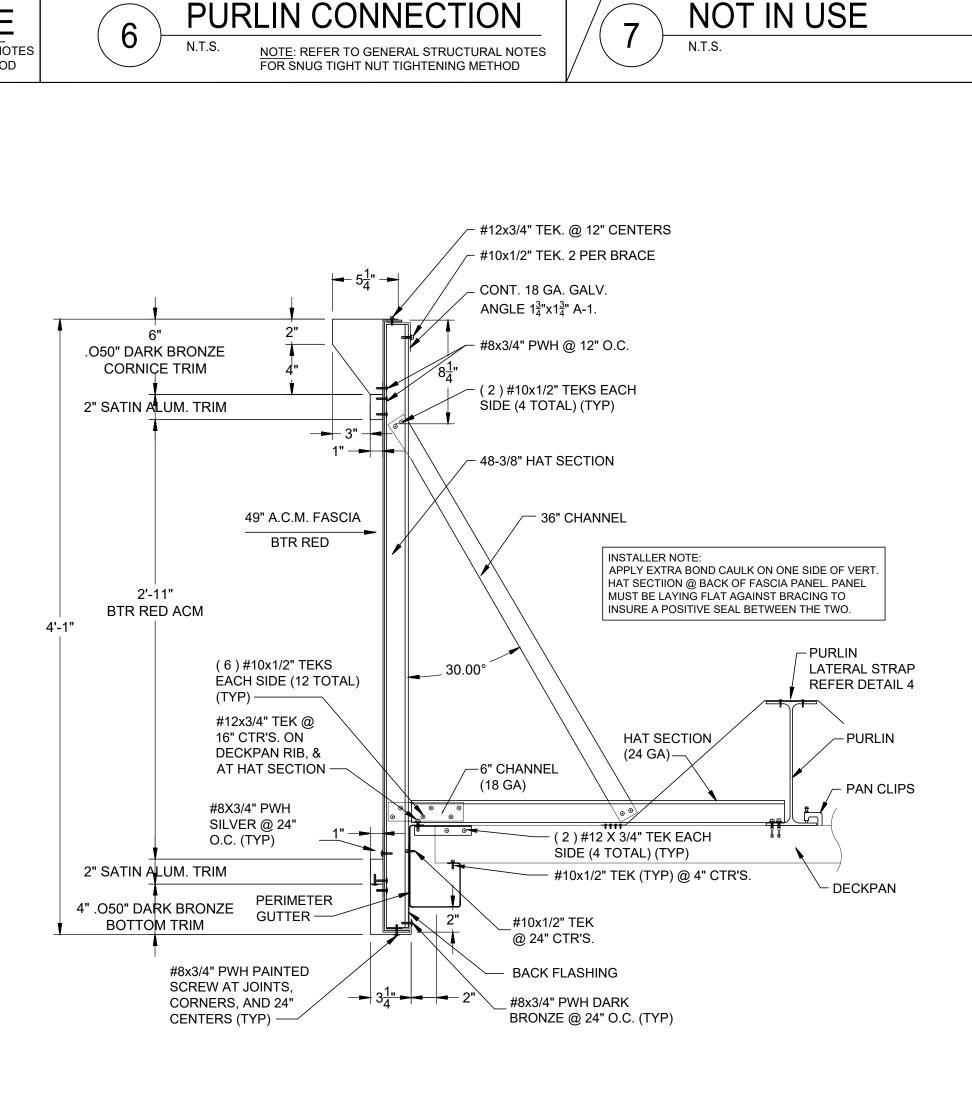


1'-4"

CLEAR



CAISSON FOOTING



/ 3/4 WEB

**HEIGHT** 

FLAT BAR STIFFENER

REF: 3-S1.3 FLAT BAR

GUSSETS (8) PER

CONNECTION. REF:

CROSSBEAM GUSSET

SCHEDULE FOR SIZE

6"x16"x1/2" GUSSET

- COLUMN REF: S1.1

STIFFENER NOTE

CROSSBEAM GUSSET SCHEDULE

3" X 1-3/4" X 1/4" GUSSET

W6x9#

W8x10#

W10x12#

W12x14#

W12x16#

W12x19#

FLAT BAR STIFFENER NOTE (PURLIN TO PURLIN):

SIZES LARGER THAN W16X31# USE 3/8" FLAT BAR.

**FASCIA SECTION** 

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

1/4" FLAT BAR ON EACH SIDE OF WEB @ PURLIN TO

PURLIN CONNECTION FOR SIZES UP TO W16X31#. ALL

**CROSSBEAM TO** 

FLAT BAR STIFFENER NOTE (COL TO CB):

1/4" FLAT BAR ON EACH SIDE OF WEB @ COL. TO

CROSSBEAM CONNECTION FOR WEIGHTS UP TO 31#.

ALL SIZES HEAVIER THAN 31# TO USE 3/8" FLAT BAR.

NOTE: REFER TO GENERAL STRUCTURAL NOTES

- CROSSBEAM

- 1/2" (A-325) BOLTS

(4) PER CONNECTION

- PURLIN REF: S1.1 FOR SIZE

REF: S1.1 FOR SIZE

- FLAT BAR STIFFENER

REF: 6-S1.3 FLAT BAR

STIFFENER NOTE

FOR TURN-OF-THE-NUT TIGHTENING METHOD

4" X 2-1/2" X 1/4" GUSSET

W14x22#

W16x26#

W16x31#

W16x36#

W18x35#

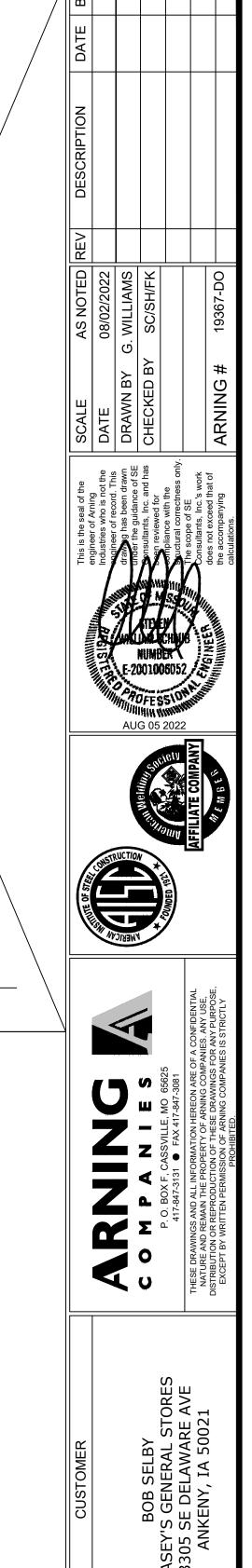
W18x40#

W18x50#

W21x44#

W24x55#

W24x62#



TYPICAL CONSTRUCTION

**DETAILS & NOTES** 

19367

S1.3

## GENERAL STRUCTURAL NOTES

## Governing Building Code:

Internal Pressure Coefficient

Design Loads:

#### Gravity:

2018 INTERNATIONAL BUILDING CODE

Dimension Lumber and Sheathing:

with manufacturers recommendations.

1. All structural steel shall conform to the following:

coated with (2) coats of asphaltic paint.

Anchor bolt layout drawings.

h. Light gage materials.

e. Masonry reinforcing shop drawings.f. Masonry grout and mortar mix designs.

sole responsibility of the general contractor.

c. Identify any variation from the contract documents.

b. Concrete mix designs, tests and material certifications.

g. Concrete block compression tests and material certifications.

splitting of the wood.

a. Miscellaneous Steel

Shop Drawing Review:

Structural Steel:

. +0.18, -0.18

All sawn lumber framing members shall be Hem-Fir 1800 MSR, or better. All manufactured beams shall be LVL grade 2.0e, or better. All manufactured columns shall be LVL grade 1.8e or PSL 1.8e, or better.

2. All wood framing members referenced as nominal sizes, dressed S4S. Provide actual sizes as required by

3. All wood structural panels shall be identified with the appropriate grade trademark of the American Plywood

4. All nailing not indicated on the drawings shall conform to the nailing schedule of the governing building code.

approved equal, attach framing accessories to wood framing accessories to wood framing in accordance

Spacing, end distances and edge distances of nails and spikes shall be such as to avoid the unusual

6. All light gage metal framing accessories noted shall be as manufactured by "Simpson Strong Tie" or

ASTM A36, Grade 36

ASTM A500, Grade B

3. All steel shall have one coat of red oxide primer. Field touch-up all unpainted areas and weld areas.4. Welding shall conform to the latest publication of applicable codes set forth by the American Welding

6. .All steel below grade shall be encased in concrete where possible: if not possible, steel shall be thoroughly

b. Review each submission for conformance with the means, methods, techniques, sequences, and

d. Review and approve each compliant submission. Non-compliant submissions shall be returned to the

d. Structural steel shop drawings, material certifications, welder certifications, and connection calculations.

2. The following is a list of required shop drawings and related submittals. The general contractor shall refer to

operations of construction; and safety precautions and programs incidental thereto, all of which are the

2. Unless noted otherwise, all column anchor bolts shall have a minimum yield stress of 36 ksi.

PS20. Provide seasoned lumber with 19% maximum moisture content at time of dressing.

Association (APA) and shall meet the requirements of Product Standard PS-2.

5. All nails shall be common wire nails, unless noted otherwise.

7. Wood glue shall meet the requirements of ASTM D3498.

9. Roof sheathing shall be  $\frac{19}{32}$ " APA Rated OSB, Exposure 1, 48/24.

8. Wall sheathing shall be  $\frac{7}{16}$ " APA Rated OSB, Exposure 1, Wall - 16(W16).

Society. Non-prequalified or unauthorized welds will not be accepted.

5. See architectural drawings for all miscellaneous steel, nailer holes, attachments, etc.

1. Prior to submittal of a shop drawing or related submittal the general contractor shall:
a. Review each submission for compliance with the contract documents.

subcontractor and approved submissions shall be stamped thus.

the specifications for more information and a complete list of required submittals:

Concrete reinforcing shop drawings, reinforcing material certifications.

#### 

#### Seismi

Calauria lungartanaa Faatan	4.0
Seismic Importance Factor Mapped Spectral Response Acceleration, Ss	0.100
Mapped Spectral Response Acceleration, 35  Mapped Spectral Response Acceleration, S1	0.068
Site Class	
Spectral Response Coefficient, SDS	0.107
Spectral Response Coefficient, SD1	0.109
Seismic Design Category	B
Basic Seismic Force Resisting System	Wood Shear Walls
Response Modification Factor, R	
Analysis Procedure	Equivalent Lateral Force

#### General:

Any conflict and/or contradiction of terms or requirements with these General Notes will be resolved by the

Architect/Engineer in fever of the more stringent or superior quality requirement.

- Architect/Engineer in favor of the more stringent or superior quality requirement.
  The General Contractor shall be responsible for verifying all dimensions and elevations shown on the plans and for coordinating all dimensions and elevations shown on the structural drawings with those shown on the architectural and mechanical drawings. If errors or discrepancies in the dimensions occur, it shall be the superintendent's responsibility to bring all discrepancies to the attention of the Architect before proceeding with the work. Field verify conditions of all adjacent existing construction prior to beginning work or ordering materials. Report any discrepancies with information contained in these documents immediately to Engineer.
- 3. The Contractor shall verify all architectural, mechanical, and electrical openings, sizes and locations, with the structural drawings.
- 4. Structural details shown on these drawings are general in nature and are valid for all similar areas and conditions, upless specifically shown or noted otherwise.
- conditions, unless specifically shown or noted otherwise.

  5. The Contractor shall provide all temporary bracing and shoring as required during construction to ensure the
- s. The Contractor shall provide all temporary bracing and shoring as required during construction to ensure tr safety of all individuals involved.
- 6. Furnish all labor, materials and equipment necessary to complete the work shown or inferred by these
- 7. Tank spoils are not to be included in the bid.

#### Foundations:

- 1. Foundations for this project have been designed for an allowable bearing value of 2,000 psf based on the recommendations in geotechnical report number G20-22-107 dated September 19, 2022 prepared by Kansas City Testing & Engineering, LLC.
- Anchor bolts shall be located by means of a template to assure proper alignment.
- 3. Grout below all column base plates and other bearing members shall be 7500 psi non-shrink grout, thoroughly compacted and installed as recommended by the grout manufacturer.

#### Concrete:

1. All concrete and reinforcing work shall conform to the latest edition of the American Concrete Institute's "Standard Building Code Requirements for Reinforced Concrete," (ACI 318) and "Specifications for Structural Concrete for Buildings," (ACI 301).

2. Proposed concrete mix design shall be submitted to the Owner for approval prior to construction. Concrete shall use type II cement. Concrete mix designs shall meet the following requirements:

	Minimum	Maximum		
	28-Day	Water/Cement		Air
	<u>Strength</u>	<u>Ratio</u>	Slump	Entrainment
Footings	4,000 psi	0.55	4"±1"	2%
Exterior exposed concrete	4,000 psi	0.42	4" <u>+</u> 1"	6% <u>+</u> 1%
Interior Slabs	4,000 psi	0.51	4"±1"	2% <u> </u>
Foundation	4,000 psi	0.42	4"±1"	6%±1%

- 3. If Contractor desires to increase slump above allowable limits to facilitate placement or pumping, this shall be done utilizing an appropriate approved admixture no water shall be added at the project site without the Engineer's permission. All admixtures shall be approved in writing by the Engineer.
- The Contractor shall reject any concrete that exceeds the slump limits noted above or exceeds the total allowable mixing time (noted in the specification) of 90 minutes.
- 5. No aluminum shall be placed in or directly against concrete.
- 6. All concrete is reinforced unless specifically noted as Unreinforced. Reinforce all concrete not otherwise shown with the same reinforcing as in similar sections or areas.
- During hot weather (80 degrees F and above), the Contractor shall comply with the recommendations
   ACI-305 "Hot Weather Concrete". During cold weather (40 degrees and below), the Contractor shall comply
   with the recommendations of ACI-306 "Cold Weather Concreting".
- 8. The concrete mix designs are to be submitted as a formal submittal to the Owner for review and acceptance.9. Verify with local authorities the required thickness of poured concrete for approaches and parking lot.

#### Sub-Base:

1. Sub-base Course Under Exterior Concrete Paved Surfaces: Spread two lifts of aggregate over prepared subgrade to a total compacted minimum thickness of 6" (153mm), compact according to specifications.

#### Reinforcing Steel:

- Materials shall comply with the following:
- a. Reinforcing steel, all bars, shall be ASTM A615, Grade 60.
- 2. Detail bars in accordance with the "Manual of Standard Practice for Detailing Reinforced Structures" ACI
- 315, and "Building Code Reinforced Concrete," ACI 318.
  3. Accessories shall be as specified in the latest edition of "Concrete Reinforcing Steel Institute Handbook."
- Maximum spacing of accessories shall be 4'-0". All accessories to have galvanized or plastic coated feet.

  4. Reinforcing shall be continuous and where splices are required they shall be lapped a minimum of 45 bar diameters for bars NOT considered top bars. Top bars, bars with more than 12 inches of concrete below, shall be lapped 56 bar diameters at splices unless noted otherwise on the drawings. Welded wire fabric
- shall be lapped a minimum of six inches.Standard concrete cover of bars unless otherwise noted shall be:
- a. Where earth formed 3 inchesb. Other 2 inches
- All coverage nominal bar diameter minimum.

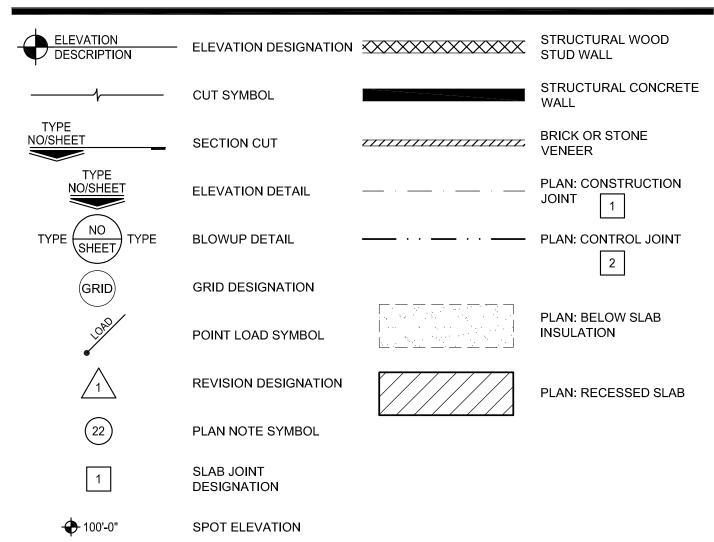
#### Anchors:

1. Adhesive used to anchor rebar or threaded rods shall be Hilti HIT-RE500, Hilti HIT-HY 200, or Simpson SET-XP. Holes shall be drilled into concrete or masonry and not cored. If reinforcing is encountered during drilling the hole shall be moved to avoid damaging reinforcing. Unless noted otherwise bolt embedment shall be a minimum of 2" less than the length of the bolt. Follow all manufacturer recommendations including those for proper drill size and hole cleaning. When possible horizontal holes to receive rebar shall be slightly inclined to encourage flow of adhesive.

#### Masonry

- All masonry construction shall conform to the following:
- a. Concrete Masonry Units: ASTM C90b. Masonry core fill and bond beam compressive strength of 3000 psi
- c. Type M or S mortar

### SYMBOLS LEGEND



## ABBREVIATIONS LEGEND

AB ANCHOR BOLT MCJ MASONRY CONTROL JOII ACI AMERICAN CONCRETE INSTITUTE MECH MECHANICAL AFF ABOVE FINISH FLOOR MFR MANUFACTURER AISC AMERICAN INSTITUTE OF STEEL CONSTRUCTION MIN MINIMUM	NT
AFF ABOVE FINISH FLOOR AISC AMERICAN INSTITUTE OF STEEL CONSTRUCTION MIN MINIMUM	
AISC AMERICAN INSTITUTE OF STEEL CONSTRUCTION MIN MINIMUM	
AISI AMERICAN IRON AND STEEL INSTITUTE MISC MISCELLANEOUS	
ARCH ARCHITECTURAL MO MASONRY OPENING	
ASTM AMERICAN SOCIETY FOR TESTING AND MATERIALS MTL METAL	
AWS AMERICAN WELDING SOCIETY NIC NOT IN CONTRACT	
BFF BELOW FINISH FLOOR NO NUMBER	
BFS BOTTOM OF FOOTING STEP NS NEAR SIDE	
BL BLOCK LINTEL NTS NOT TO SCALE	
BO BOTTOM OF OC ON CENTER	
	TENEDO
BRG BEARING PAF POWDER ACTUATED FAS	
CIP CAST-IN-PLACE CONCRETE PCF POUNDS PER CUBIC FEE	: 1
CJ CONTROL JOINT (WALL) PL PLATE	O.T.
CL CENTER LINE PLF POUNDS PER LINEAR FO	
CLR CLEAR PSI POUNDS PER SQUARE IN	NCH
CMU CONCRETE MASONRY UNIT QTY QUANTITY	
COL COLUMN RD ROOF DRAIN	
CONC CONCRETE REFERENCE	
CONST CONSTRUCTION REINF REINFORCING	
CONT CONTINUOUS REQD REQUIRED	
DIA DIAMETER REV REVERSE	
EIFS EXTERIOR INSULATION AND FINISH SYSTEM RO ROUGH OPENING	
EJ EXPANSION JOINT RTU ROOF TOP UNIT	
EL ELEVATION SDI STEEL DECK INSTITUTE	
ELEC ELECTRICAL SIM SIMILAR	
EQ EQUAL SJI STEEL JOIST INSTITUTE	
EW EACH WAY SPECS SPECIFICATIONS	
FDN FOUNDATION T&B TOP AND BOTTOM	
FF FINISH FLOOR TFS TOP OF FOOTING STEP	
FS FAR SIDE THK THICK	
FTG FOOTING TO TOP OF	
GA GAGE TOP OF CONCRETE	
GC GENERAL CONTRACTOR TOF TOP OF FOOTING	
GYP BD GYPSUM BOARD TOGB TOP OF GRADE BEAM	
HORIZ HORIZONTAL TOM TOP OF MASONRY	
HSA HEADED STUD ANCHOR TOP TOP OF PAVING	
INFO INFORMATION TOS TOP OF STEEL	
JST JOIST TRANS TRANSVERSE	
JT JOINT TYP TYPICAL	
KSI KIPS PER SQUARE INCH UNO UNLESS NOTED OTHERW	VISE
LBS POUNDS VERT VERTICAL	VIOL
LLH LONG LEG HORIZONTAL W WIDTH	
LLV LONG LEG VERTICAL WP WORK POINT	
LONG LONGITUDINAL WS WALL STEP	
MAX MAXIMUM WWF WELDED WIRE FABRIC	
WIFT WIFT WILDLD WINE FADRIC	

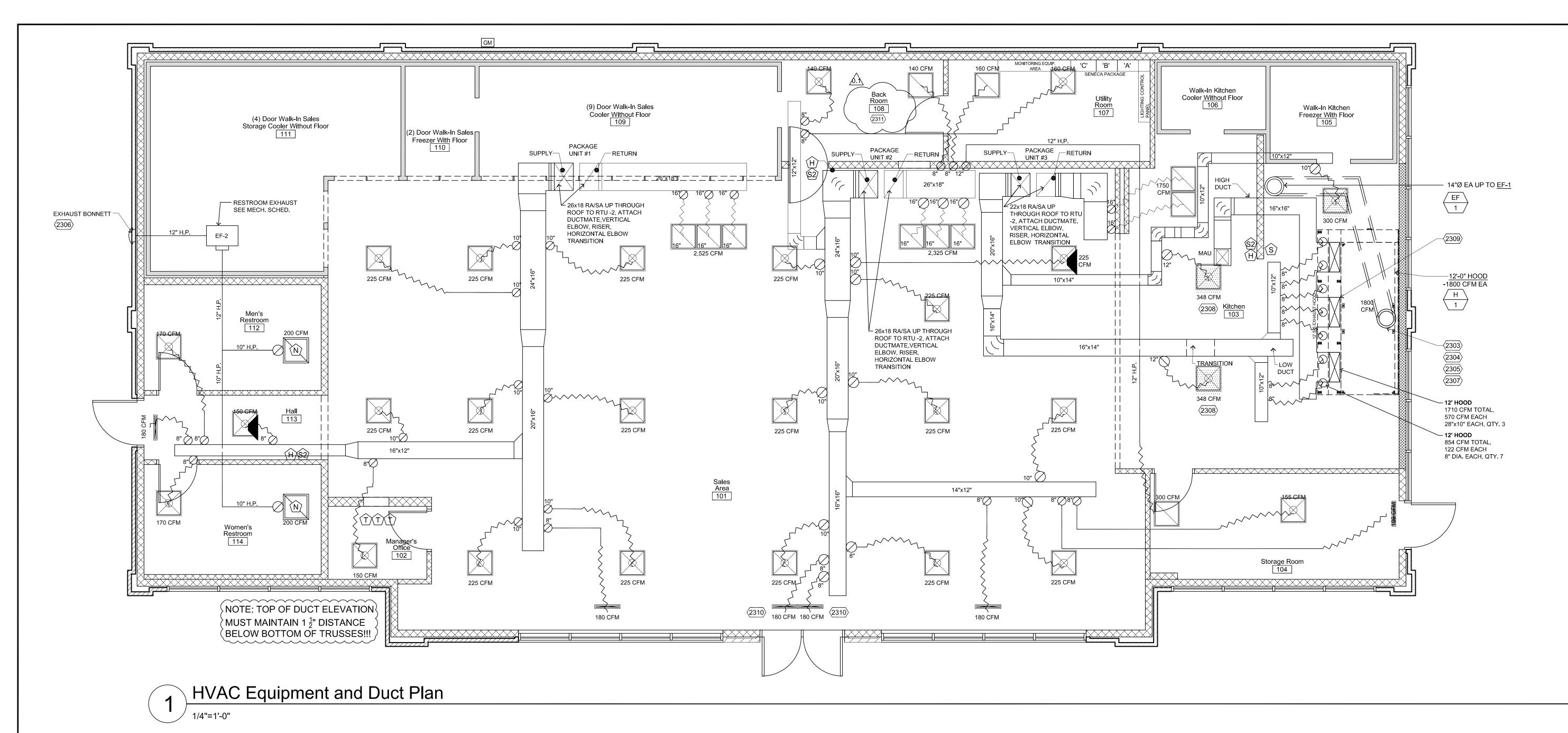
	SPECIAL I	NSPEC	CTION	S
SCOPE OF	INSPECTION TASK	INSPECTION	FREQUENCY	BUILDING CODE
WORK	INSPECTION TASK	CONTINUOUS	PERIODIC	REFERENCE
	VERIFY CAPACITY OF BEARING MAT'LS		X	TABLE 1704.7.1
	VERIFY EXCAV. PROPER DEPTH & ABLE TO REACH PROPER MAT'LS		Х	TABLE 1704.7.2
SOILS	CLASSIFICATION & TESTING OF CONTROLLED FILL MAT'LS		X	TABLE 1704.7.3
	VERIFY USE OF PROPER MAT'LS DESITIES & LIFT THICKNESSES		X	TABLE 1704.7.4
	VERIFY PREP. OF SUBGRADE BEFORE CONTR. FILL PLACEMENT	X		TABLE 1704.7.5
	REINF STEEL & PLACEMENT; INSPECT FORMWORK		X	TABLE 1704.4.1; 1704.4.11
	BOLTS INSTALLED IN CONCRETE	X		TABLE 1704.4.3.
CONCRETE	VERIFICATION OF REQ'D MIX		Х	TABLE 1704.4.4.
CONTONETE	CONCRETE SAMPLING	X		TABLE 1704.4.5.
	CONCRETE PLACEMENT	X		TABLE 1704.4.6.
	CURING TEMPERATURE & TECHNIQUES		Х	TABLE 1704.4.7.
WOOD TRUSSES	TEMPORARY INSTALLATION RESTRAINT/BRACING AND PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT/BRACING.		Х	SECTION 1705.5.2.

A QUALIFIED SPECIAL INSPECTOR WILL BE RETAINED BY THE OWNER TO COMPLETE SPECIAL INSPECTIONS PRIOR TO AND DURING CONSTRUCTION TO CONFORM WITH THE REQUIREMENTS OF THE BUILDING CODE AND THE LOCAL CODE AUTHORITIES. ITEMS REQUIRING SPECIAL INSPECTIONS ARE TABULATED ABOVE. REFER TO CODE CHAPTER 17 FOR SPECIFIC REQUIREMENTS FOR EACH INSPECTION TASK.

\_\_\_\_\_\_



*	SCH	MMER
Cacarie		h Purpose. Build with Confidence.
Cubeys	1044 North 115th Street, Sui Omaha, NE 68154	te 300 COA Number CA0666
CASEY'S GENERAL STORE MO-150 & ARBORIDGE DR LEE'S SUMMIT, MO 2023 - U4 - V.01	PUBLISHED: 10/18, REVISED ON: 1/24/	CENEDAL
PROJECT NUMBER: 07164.057  DRAWN BY: CHECKED BY: JJH		S-001



### **General Construction Notes**

- 1. COORDINATE ALL SUPPLY AND RETURN AIR GRILLES W/ ELECTRICAL AND OTHER CEILING MOUNTED DEVICES, SEE REFLECTED CEILING PLAN
- 2. ALL DIFFUSER RUNS TO BE INSULATED FLEX DUCT. SIZE AS NOTED. SEE NOTE 12 BELOW.
- 3. ALL ELECTRICAL BY OTHERS
- 4. HANG ALL DUCT WORK & EQUIPMENT PER IMC CODE.
- 5. WALK-IN COOLER AND FREEZER WALK-IN TO BE ASSEMBLED AS (2307) EXHAUST DUCT PROVIDED BY HOOD MANUFACTURER PER MANUFACTURERS SPECS. (NOT INCLUDED IN THESE
- 6. CEILING DIFFUSERS TO BE LOCATED IN ONE TILE AREA. RE: REFLECTED CEILING PLAN A-111 FOR LOCATIONS.
- 7. ALL DRAIN LINES TO BE 7/8" ACR COPPER.
- 8. ALL DUCT WORK TO MEET SMACNA STANDARDS AND NOT LIGHTER THAN 24 GA. METAL.
- 9. REFERENCE SHEETS QR-602 FOR HVAC CONTROL WIRING.
- 10. ALL DUCT WORK TO BE INSULATED ON EXTERIOR R-8 OR GREATER .
- 11. NO FLEX OVER 6' IN LENGS ymbols Legend
- 12.HVAC TO COORDINATE & PROVIDE PENETRATIONS TO HOOD SYSTEM AS REQUIRED.
- 13. ALL FRESH AIR INTAKES SHALL BE A MINIMUM OF 10' AWAY OR 3 BELOW ANY EXHAUST OUTLET OR PLUMBING VENT
- 14. THIRD PARTY SHALL BALANCE AIR FLOW AS SHOWN ON CONSTRUCTION DOCUMENTS. FIELD REPORTS SHALL INDICATE DEFICIENCIES PREVENTING PROPER TESTING, ADJUSTING AND BALANCING OF SYSTEM AND EQUIPMENT TO ACHIEVE SPECIFIED PERFORMANCE. FURNISH REPORTS TO CASEY'S HVAC/R SUPERVISOR AND ENGINEERING IN APPROVED

#### **Kitchen Exhaust Hood Notes**

MANUFACTURER: CAPTIVEAIRE: TYPE 1, UL APPROVED 12' EXHAUST HOOD.

# **Keyed Construction Notes**

DIVI	SION 23 -	HEATING,	VENTILAT	ING AND A	AIR CONDIT	IONING

(2303) HOOD LIGHTING TO BE CONNECTED INTO APPROPRIATE WALL

Unit Name

Manufacturer and Model Number

CaptiveAire - A1-D.250-15D-MPU

A/C Condensing Unit

Package Unit #1 Rheem - RGEDZT090ACG20BDALK3

Package Unit #2 Rheem - RGEDZT090ACG20BDALK3

Package Unit #3 Rheem - RGECZR060ACU12BDALH3

- $\langle \overline{2304} \rangle$  EXHAUST HOODS: 12 FT HOOD SECTIONS S/S 16 GAUGE. HOODS PROVIDED UNDER NATIONAL ACCOUNT
- (2305) EXHAUST FAN THRU ROOF SEE M-401 FOR SCHEDULE.
- (2306) EXHAUST FAN THRU EXTERIOR WALL SEE M-401 FOR SCHEDULE
- PERFORATED STYLE DIFFUSER. (2309) MAU DUCT TO HOOD MUST ENTER HOOD ABOVE SUPPLY AIR TO

(2308) ALL DIFFUSERS WITHIN 10'-0" OF AN EXHAUST HOOD SHALL BE A

2310) 2' SLOT LINEAR DIFFUSER WITH LOUVER POINTED DOWN

GAS DETECTION TO COMPLY 2018 IFC.

(2311) GAS DETECTION SYSTEM TO BE PROVIDE FOR BEVERAGE DISPENSING EQUIPMENT EXCEEDING 100 POUNDS OF LIQUID O

	2'x2' DIFFUSER LOCATION TYP.	Û	HVAC THERMOSTAT - 72" A.F.F.
	2'X2' PERFORATED DIFFUSER TYP.	P	DRYER EXHAUST
3'	2'x2' RETURN AIR DIFFUSER TYP.	$\langle \hat{N} \rangle$	VENTILATION EXHAUST
J	RESTROOM EXHAUST FAN / 10" HARD PIPE	Ô	HVAC DOAS COMBO STAT - 60" A.F.F.
	SLOTTED DIFFUSER TYP. (LEAVE 2-2' EXTRA CROSS TEE'S FOR SLOTTED DIFFUSERS)		HVAC HUMIDISTAT - 60" A.F.F.
	SECTIED BIT GOLKG)	<u>(\$)</u>	SENSOR -60" A.F.F.
D	2'x2' DIFFUSER WITH DIVERTER INSTALLED		*ALL HEIGHTS LISTED ARE FROM BOTTOM

DAMPER (ALL SUPPLY AND RETURN

LINES TO HAVE DAMPERS)

TURNING VANES

----- HARD PIPE DUCT

√√√ FLEX DUCT

OF UNITS U.N.O.

RHEEM - 72" A.F.F.

		U4 (2021) GAS - AIR BA	LANCE SO	CHEDULE					
			Supply Air	Return Air	Outside Air	Exha	aust Air	Air Bala	ance
Unit Name	Unit Description	Manufacturer and Model Number				CFM	CFM	CFM	CFM
			CFM	CFM	CFM	Morning *	Typical	Morning *	Typical
		•		I		<u> </u>		•	
Package Unit#1	Sales Area HVAC Unit	HVAC Package Unit Schedule	2800	2525	275				
Package Unit#2	Sales Area HVAC Unit	HVAC Package Unit Schedule	3200	2925	275				
Package Unit #3	Kitchen Area HVAC Unit	HVAC Package Unit Schedule	1850	1750	100				
MAU	Kitchen Hood Make-up Air Unit	HVAC Package Unit Schedule	1710		1710				
EF - 1	12 Foot Hood Fan	CaptiveAire - DU85HFA				1800	1800		
EF - 2	Restroom Exhaust Fan**	CaptiveAire - SIF11DD				400	400		
Totals			9560	7200	2360	2200	2200	160	160

**Equipment Notes** 

Sales Area

Sales Area

Kitchen Area

One Unit

Unit CFM OSA CFM

2800

3200

1850

1710

ESP

	Equipment			Cookin	g Equipme	ent Status	
Equipment Name	Description		Off	Warm-up and Cool-down		Normal Operation	
		CFM	Percent	CFM	Percent	CFM	Percent
F	45.5	_					
Exhaust Hood 1	12 Foot Hood	0	0	360	20	1440 to 1800	80 to 100

Heat Source

Gas or Electric

Natural

Natural

**Heating Capacity** 

Input

MBH KW

205

205

120

200.74

Output

MBH

166.1

166.1

97.2

184.7

**U4 (2021) GAS - HVAC PACKAGE UNIT SCHEDULE** 

11.2

1063

IEER <sup>2</sup>

14 <sup>1</sup>

Cooling Capacity

98.5

63.5

36.0

**Nominal Tons** 

7.5

Blower

**BHP or Watts** 

1280.100

1105.700

1.060

Λ	STATE OF MISSON
	E OI MISSO
	JEFFREY E
	KULHANEK \*
\$ 70	NUMBER HE PE-2022017087
	1/25/24
D	ONAL E
	diporting.

**Operating Weight** 

LBS

(less curbs)

1185

1185

583

¥	SCHEN	<b>MER</b>
Cacana	Design with Purp	pose. Build with Confidence.
Cuseys	1044 North 115th Street, Suite 300 Omaha, NE 68154	COA Number CA0666
CASEY'S GENERAL S MO-150 & ARBORIDGE DR LEE'S SUMMIT, MO 2023 - U4 - V.01	^ l	
PROJECT NUMBER: 07164.057 DRAWN BY: CHECKE	0.00	M-101
DRAWN BY: CHECKE	DBA:	

Electrical

FLA/RLA

Amps

208-230 3Ø

208-230 3Ø

208-230 3Ø

208-230 3Ø

MCA

Amps

22.8

MOP

Amps