

Building Permit Application
Howard County Maryland
Department of Inspections, Licenses and Permits
3430 Court House Drive
Permits: 410-313-2455

Date Received:	

Permit No.

	www.h	owardco	untyma.qov	Permit No.: _	-
Building Address: 11348 & City: Ellicath City State.  Suite/Apt. # SD  Census Tract: Section: Are Tax Map: 10 Parcel: Zoning: Map Coordina  Existing Use: Kesicle into all Proposed Use: Dack State  Estimated Construction Cost: \$ 10 Cost Parall  Occupant or Tenant: Occupant	END Zip Code: 2104  P/WP/BA #:  Subdivision: Willow Ri  Ba:  Lot: 5  B9 91 7201 Grid: 15  ates:  Lot Size: 39  CS  Dood  Deck * Stairs	die	Applicant's Name & Mailing Applicant's Name & Mailing Applicant's Name & Mailing Address: 501 B 01 City: 01423 Phone: 301-674-47	State: Miles  Grish Factor  Gr	Tip Code: 2146  ax:  Codist  other than stated herein)  tenswille Rond  Dip Code: 2083  301-948-3323  decerators  tenswille Road  Zip Code: 2083  decerators  Zip Code: 20832
Was tenant space previously occupied		0	Engineer/Architect Company	y:	
Contact Name:			Responsible Design Prof.:		
Address:			Address:		
City:			City:Sta	ate.	Zin Code:
Phone:		_	Phone:		
Email:	_1 0 /.	_		Fax	
Elflan.			Email:		
Commercial Building Characteristics	Residential Building Characteri		Utilities		
Height: No. of stories:	SF Dwelling SF Townhouse		Water Supply	!	
Gross area, sq. ft./floor:	1 <sup>st</sup> floor:		Public		
	2 <sup>nd</sup> floor:		☐ Private		
Area of construction (sq. ft.):	Basement:		Sewage Dispas	<u>01</u>	
Use group:	☐ Finished Basement ☐ Unfinished Basement		Private		
ose group.	☐ Crawl Space		( ,	□ No	
Construction type:	☐ Slab on Grade				
☐ Reinforced Concrete	No. of Bedrooms:			□ No	<u> </u>
☐ Structural Steel	Multi-family Dwelling		Heating System	<u>n</u>	44.66
Masonry	No. of efficiency units:		☐ Electric ☐ Oil	_	
☐ Wood Frame ☐ State Certified Modular	No. of 1 BR units: No. of 2 BR units:		☐ Natural Gas ☐ Propan	ie Gas	, , , , , , , , , , , , , , , , , , , ,
Li State Certified Modular	No. of 3 BR units:		☐ Other:  Sprinkler System	<b></b>	
	Other Structure:		☐ Yes ☐ No	<u></u>	
	Dimensions:		Cites Divo		
> Roadside Tree Project Permit	Footings:		Crading Day	maia Alumah am	
☐Yes ☐Ño	Roof:		Grading Per	mit Number:	
Roadside Tree Project Permit #	☐ State Certified Modular ☐ Manufactured Home		Building Shell Per	mit Number:	
THE UNDERSIGNED HEREBY CERTIFIES AND AGREE WITH ALL REGULATIONS OF HOWARD COUNTY WE THIS APPLICANT'S SIGNATURE  Drian h bot  Email Address  Landscape Dobys  Title/Company	ES AS FOLLOWS: (1) THAT HE/SHE IS AUTHOR WHICH ARE APPLICABLE THERETO; (4) THAT HINTY OFFICIALS THE RIGHT TO ENTER ONTO TO THE RIGHT TO ENTER ONTO THE RIGHT TO THE RIGHT TO ENTER ONTO THE RIGHT TO THE RIGHT	HE/SHE WILL THIS PROPER	KE THIS APPLICATION; (2) THAT THE IN	FORMATION IS CO	DRRECT; (3) THAT HE/SHE WILL COM PERTY NOT SPECIFICALLY DESCRIBED TED AND POSTING NOTICES.
	**PLEASE WI	RITE NEATL	ANCE OF HOWARD COUNTY Y & LEGIBLY** ISE ONLY-		
AGENCY DATE SIG	GNATURE OF APPROVAL DPZ S	ETBACK IN	FORMATION	Filing Fee	\$
State Highways	Front:			Permit Fee	\$

AGENCY	DATE	SIGNATURE OF APPROVAL
State Highways		
Building Officials		
PSZA (Zoning)		
PSZA ( Engineering )	11	- 0
Health &	111/10	Risux &
Is Sediment Control appr		ed for issuance?   Yes   No

DPZ SETBACK INFORMATION		
Front:		
Rear:		
Side:		
Side St.:		
All minimum setbacks met?	☐ Yes	□No
Is Entrance Permit Required?	☐ Yes	□No
Historic District?	☐ Yes	□No
Lot Coverage for New Town Z	one:	
SDP/Red-line approval date:		-

Filing Fee	\$
Permit Fee	\$
Tech Fee	\$
Excise Tax	\$
PSFS	\$
Guaranty Fund	\$
Add'l per Fee	\$
Total Fees	\$
Sub- Total Paid	\$
Balance Due	\$
Check	#

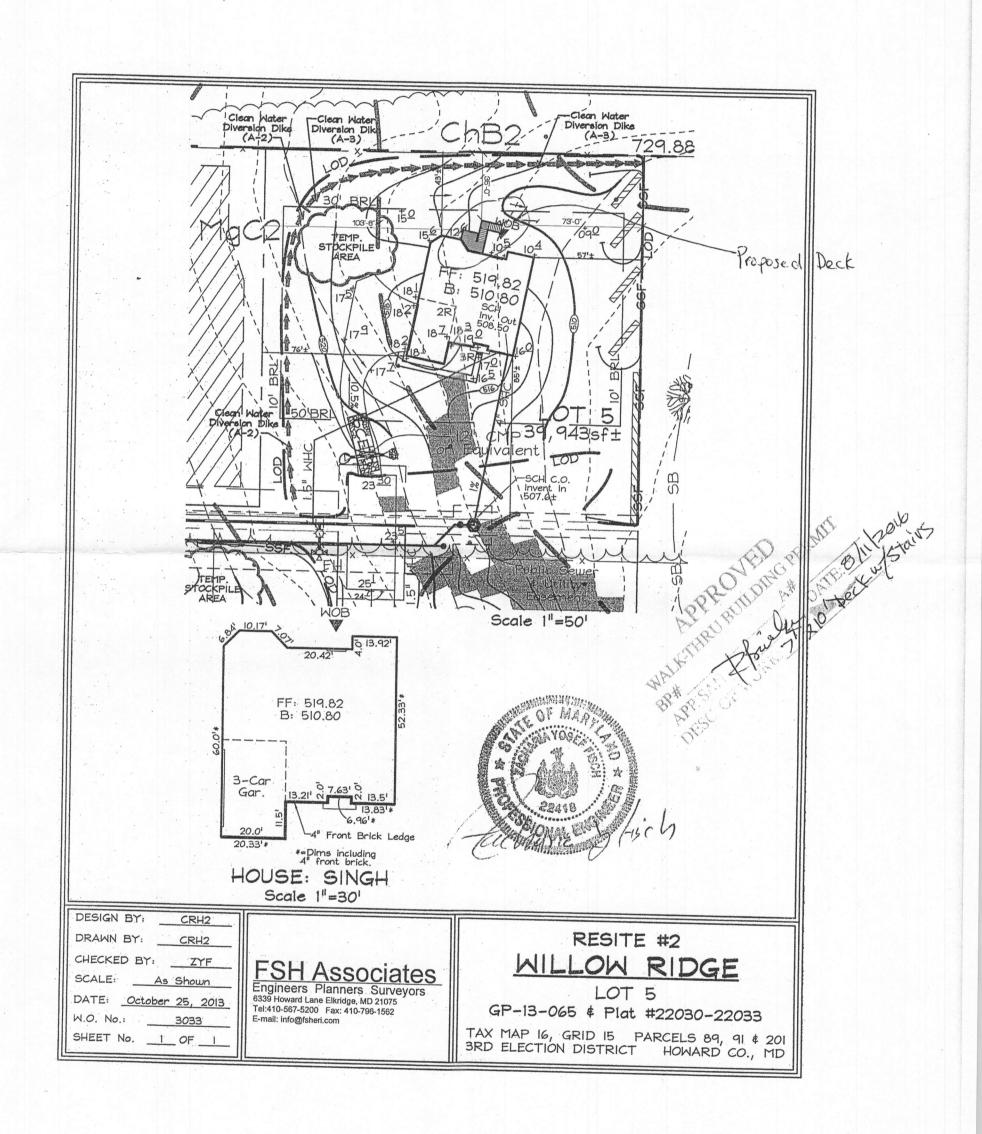
Distribution of Copies: White: Building Officials

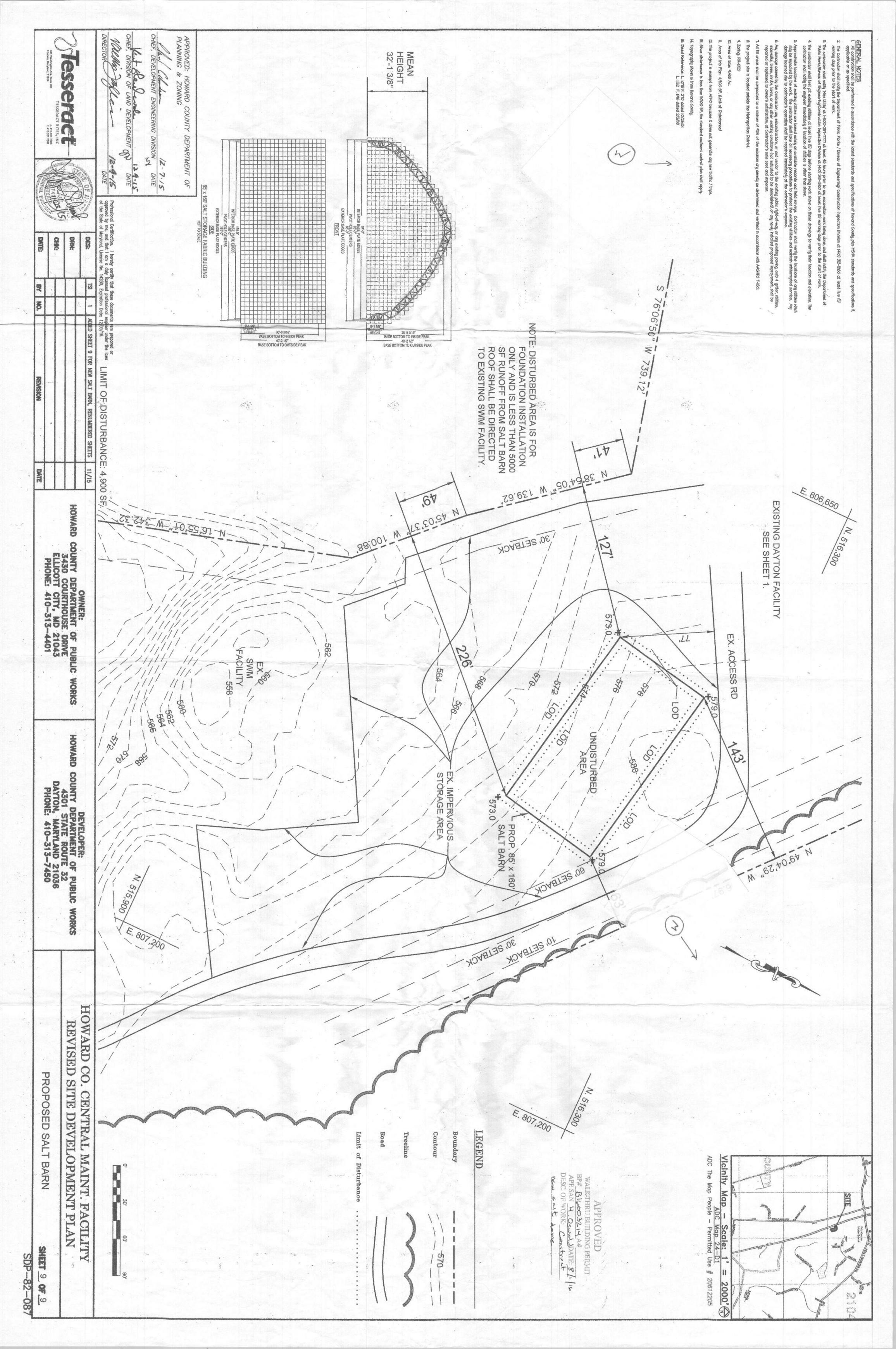
Green: PSZA,Zoning

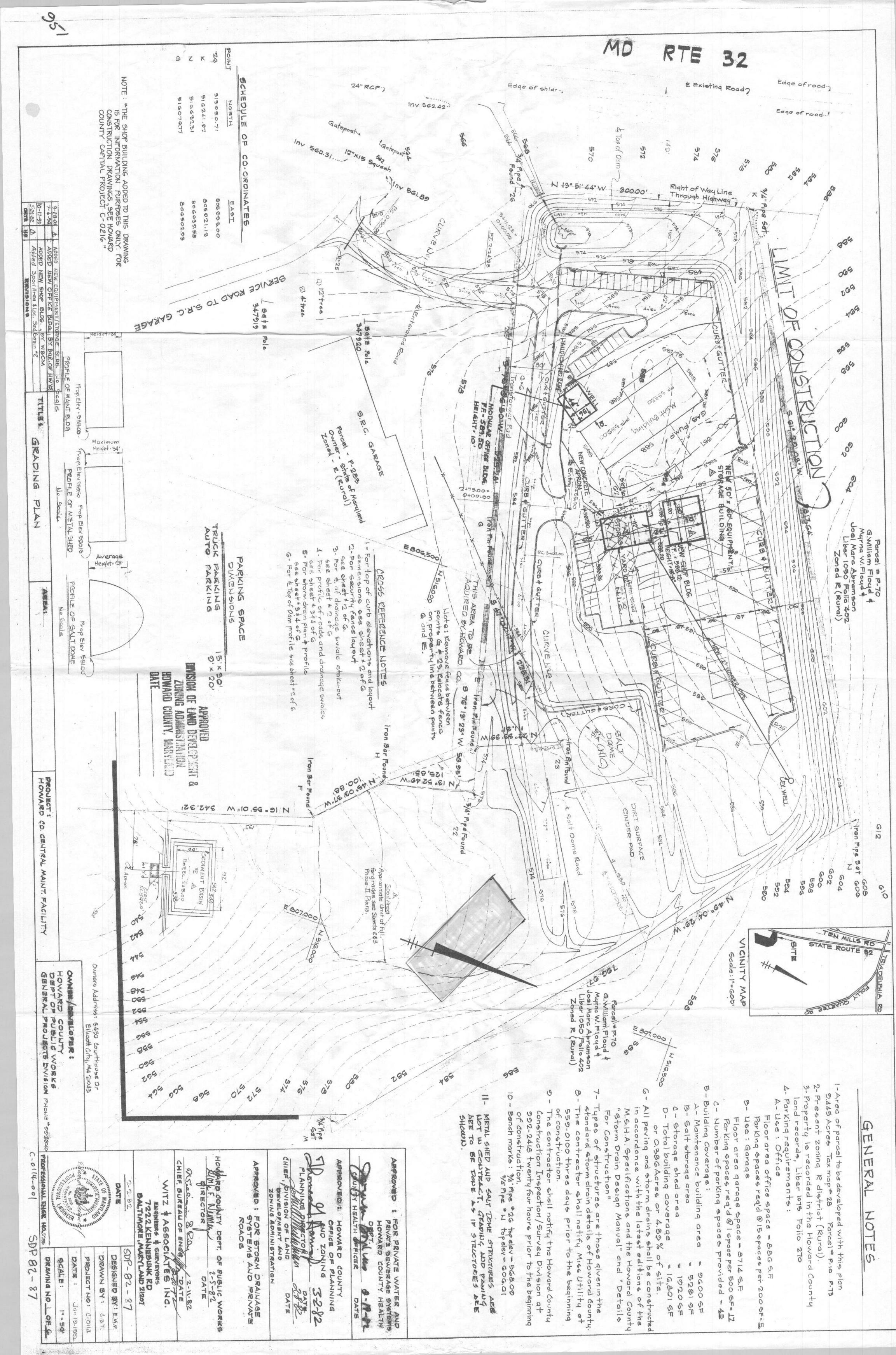
Yellow: PSZA,Engineering

Pink: Health

Gold: SHA







# FOUNDATION SYSTEM FOR CLEARSPAN STRUCTURE

CONC. FND. FOR 85'X160' CLEARSPAN STRUCTURE

CLEARSPAN ORDER NO. 7032939

LOCATION:

HOWARD COUNTY DAYTON, MD 21036 4301 ST. RT. 32

CLEARSPAN STRUCTURE

CONC. FND. FOR 85'X160' CLEARSPAN STRUCTURE

4301 ST. RT. 32 DAYTON, MD 21036 HOWARD COUNTY



1440 18th Ave. SW Dyersville, IA 52040 www.esapco.com

7192018 1/2016 ADDED ELEVATION VIEWS REVISED AS SHOWN St., Suite 101 (301) 980-1775 070 (801) 980-1776 FAX DESIGNED: KGS MAN ABDIDGE COLL DESCRIPTION DRAFTER: KGS

DETAILS

DETAILS

FOUNDATION PLAN GENERAL NOTES

**ELEVATION VIEWS** 

STRUCTURE REACTIONS

DRAWING INDEX

TITLE SHEET

TITLE SHEET

FOUNDATION SYSTEM FOR

CLEARSPAN ORDER NUMBER: 7032939

A Division of Engineering Services & Products Co.

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LICENSES & PERMITS

ONAL ENGINEER U1382-351-151 ul 20, 2016 AL ENGINEER AND ONLY

### GENERAL DESIGN NOTES:

STRUCTURAL DESIGN IS BASED ON THE INTERNATIONAL BUILDING CODE, 2015 EDITION AND THE ASCE 7—10 STANDARD

### DESIGN LOADS:

WIND:

RISK CATEGORY: EXPOSURE: ULTIMATE WIND SPEED: -115 MPH (3-SEC GUST BASIC WIND SPEED)

SNOW IMPORTANCE FACTOR = 1.0THERMAL FACTOR = 1.2SNOW EXPOSURE FACTOR = 0.9 GROUND SNOW LOAD = 25 PSF

ROOF LIVE LOAD = 30 PSF (NON-REDUCIBLE)

### SEISMIC

SEISMIC IMPORTANCE FACTOR: 1.0 SITE CLASS:  $S_s = 0.123$ RISK CATEGORY: II SEISMIC DESIGN CATEGORY: B S  $S_1 = 0.051$ = 0.081

## STEEL MATERIAL NOTES

- ALL BOLTS FOR STEEL-TO-STEEL CONNECTIONS SHALL CONFORM w/ ALL STEEL SHAPES & PLATES SHALL CONFORM w/ ASTM A36, U.N.O.
- ASIM A325N, U.N.O. SOCIETY AWS D1.1 ACCORDANCE w/ THE LATEST VERSION OF THE AMERICAN WELDING ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS IN
- ALL BOLIED CONNECTIONS SHALL BE TIGHTENED TO "SNUG-TIGHT" CONDITION AS DEFINED BY THE AISC MANUAL.
- SHALL BE GALVANIZED, STAINLESS STEEL, OR OTHERWISE PROTECTED FROM WEATHER. ALL STEEL SHAPES, PLATES, AND HARDWARE EXPOSED TO WEATHER

## REINFORCING STEEL NOTES

- REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-615 GRADE 60.
- Sin ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
- 4 MINIMUM LAP OF WELDED WIRE FABRIC SHALL BE 6 INCHES OR ONE WHEN THE FINAL IN-PLACE INSPECTION IS MADE ALL BARS SHALL BE MARKED SO THEIR IDENTIFICATION CAN BE MADE FULL MESH AND ONE HALF, WHICH EVER IS GREATER.
- REBAR SPLICES ARE TO BE: CLASS "B".
- 9 5 REINFORCING SPLICES SHALL BE MADE ONLY WHERE INDICATED ON THE DRAWINGS.
- DOWELS BETWEEN FOOTINGS AND WALLS OR COLUMNS SHALL BE THE SAME GRADE, SIZE AND SPACING OR NUMBER AS THE VERTICAL REINFORCING, RESPECTIVELY.

## GENERAI 9

### CONCRETE:

- REINFORCED CONCRETE DESIGN IS BY THE "ULTIMATE STRENGTH REINFORCED CONCRETE" (ACI 318 LATEST APPROVED EDITION) WITH ALL PHASES OF WORK PERTAINING TO THE CONGRETE CONSTRUCTION MODIFICATIONS AS NOTED IN THE DRAWINGS AND SPECIFICATIONS SHALL CONFORM TO THE "BUILDING CODE REQUIREMENTS FOR
- ALL STRUCTURAL CONCRETE SHALL HAVE A MIN. 28-DAY STRENGTH DESIGN METHOD", ACT 318-(LATEST EDITION).
- OF 4000 PSI.
- 4.1 APPROVAL WITH THE FOLLOWING REQUIREMENTS: CONCRETE MIX DESIGN SHALL BE SUBMITTED TO THE ENGINEER FOR COMPRESSIVE STRENGTH AT AGE 28 DAYS AS SPECIFIED ABOVE
- 4.2. LARGE AGGREGATE-HARDROCK, 3/" MAXIMUM SIZE CONFORMING
- TO ASTM C-33
- 4.3 CEMENT-ASTM C-150, TYPE | PORTLAND CEMENT.
- NO ADMIXTURES, EXCEPT FOR ENTRAINED AIR, AND AS MAXIMUM SLUMP 5-INCHES MAX WATER CEMENT RATIO 0.50

APPROVED BY THE ENGINEER.

- CONCRETE MIXING OPERATIONS, ETC, SHALL CONFORM TO ASTM
- PLACEMENT OF CONCRETE SHALL CONFORM TO ACI STANDARD 614 AND PROJECT SPECIFICATIONS
- CLEAR COVERAGE OF CONCRETE OVER OUTER REINFORCING BARS SHALL BE AS FOLLOWS: CONCRETE POURED DIRECTLY AGAINST EARTH - 3 INCHES CLEAR STRUCTURAL SLABS - 3/4 INCHES CLEAR (TOP INCHES CLEAR AND BOTTOM) FORMED CONCRETE WITH EARTH BACK FILL = 2
- 00 PRIOR TO PLACING CONCRETE. INSERTS (AS APPLICABLE) SHALL BE WELL SECURED IN POSITION ALL REINFORCING BARS, ANCHOR BOLIS AND OTHER CONCRETE
- 40 CIVEN BY THE EQUATIONS IN SECTION 8.5.1. OF ACI 318 FOR THE SPECIFIED 28-DAY STRENGTH. MODULUS OF ELASTICITY OF CONCRETE, WHEN TESTED IN ACCORDANCE WITH ASTM C-460, SHALL BE AT LEAST THE VALUE
- SHRINKAGE OF CONCRETE, WHEN TESTED IN ACCORDANCE WITH ASTM C-157, SHALL NOT EXCEED 0.00040 INCHES/INCH.

- FOOTINGS ARE DESIGNED BASED ON AN ALLOWABLE SOIL BEARING PRESSURE OF 4000 PSF PER THE PROJECT, SOILS REPORT:
- REPORT DATE: GEOTECHNICAL ENGINEEER: ADDENDUM NO. 1: GEOTECH ENGINEERS, DECEMBER 10, 2015 MARCH 8, 2016
- CONTRACTOR SHALL PROVIDE FOR PROPER DE-WATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER, SEEPAGE, ETC. FOOTINGS SHALL BE PLACED ACCORDING TO DEPTHS SHOWN ON THE
- THE TOP OF FOUNDATION SHALL BE LEVEL AND NON-SLOPING, U.N.O. DRAWINGS
- ALL DIMENSIONS SHALL BE VERIFIED BY THE FOUNDATION CONTRACTOR PRIOR TO CONSTRUCTION.
- 01 SOILS TO BE PREPARED PER THE GEOTECHNICAL REPORT PRIOR TO RECOMPACT PER GEOTECHNICAL REPORT CONSTRUCTION. CLEAR, OVEREXCAVATE, SCARIFY, INSPECT,
- STRUCTURAL FILL SHALL BE PREPARED AND INSTALLED PER THE REFERENCED GEOTECHNICAL

LICENSES & PERMITS DIVISION

U1382-351-151

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## SPECIAL INSPECTIONS / QUALITY ASSURA ANCE

138 S. State St., Suite 101

(801) 990-1775 (801) 990-1778 FAX

DESIGNED: KGS MAN, ABCIDISE COL

DRAFTER KGS

REVISIONS DESCRIPTION

- SPECIAL INSPECTIONS SHALL BE REQUIRED FOR:
- CONCRETE MIX DESIGN & S RENGTH
- FORMWORK SHAPE, LOCATION, & DIMENSIONS REINFORCEMENT TYPE & PLACEMENT
- FOUNDATION EXCAVATION
- ANCHORAGE TYPE & PLACEMENT

719/2016 71/2016

ADDED ELEVATION VIEWS REVISED AS SHOWN

- PERIODIC INSPECTION OF ALL POST-INSTALLED ANCHORAGE TO CONCRETE
- 0 PROVIDE ADDITIONAL INSPECTION THE OWNERS SHALL EMPLOY SPECIAL INSPECTORS WHO SHAL DURING CONSTRUCTION IN
- 5 ALL SPECIAL INSPECTIONS SHALL INDEPENDENT CERTIFIED INSPECTOR FROM AN ESTABLISHED TESTING AGENCY, LICENSED AND ACCORDANCE WITH SECTION 17 OF THE CODE. APPROVED BY THE BUILDING BE PERFORMED BY AN
- THE TESTING AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORT DEPARTMENT IS DIRECTLY TO VECTOR
- ALL REPORTS SHALL BE DISTRIBUTED ON A MONTHLY BASIS TO THE ENGINEER OF RECORD, OWNER, CONTRACTOR, AND TO THE BUILDING OFFICIAL. STRUCTURAL ENGINEERING AND ALL INTERESTED PARTIES.
- NO STRUCTURAL OBSERVATION IS REQUIRED. HOWEVER, THE ENGINEER OF RECORD RESERVES THE RIGHT TO MAKE FIELD OBSERVATIONS DURING CONSTRUCTION APPROXIMATELY ONCE PER WEEK.

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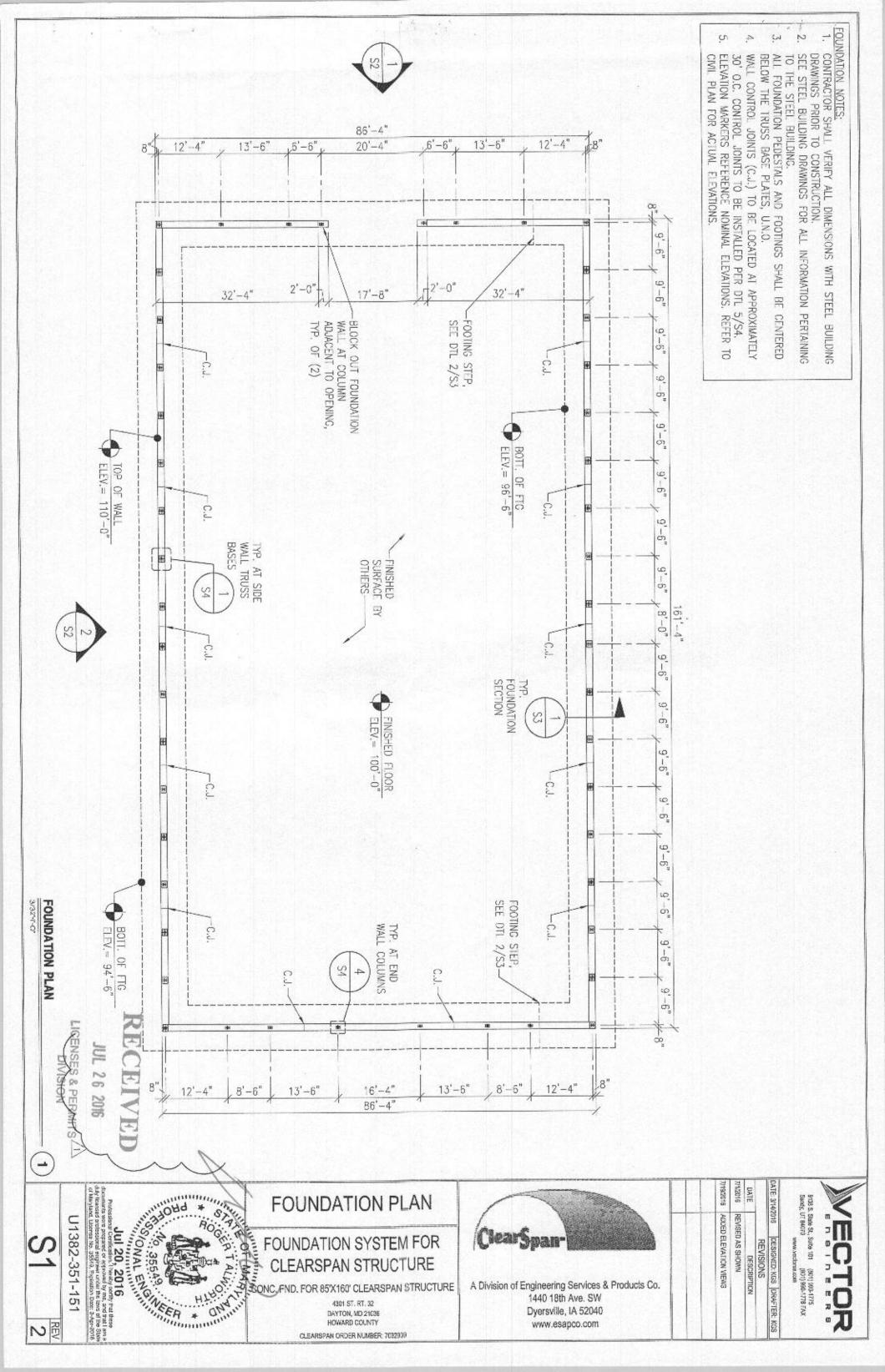
FOUNDATION SYSTEM FOR CLEARSPAN STRUCTURE

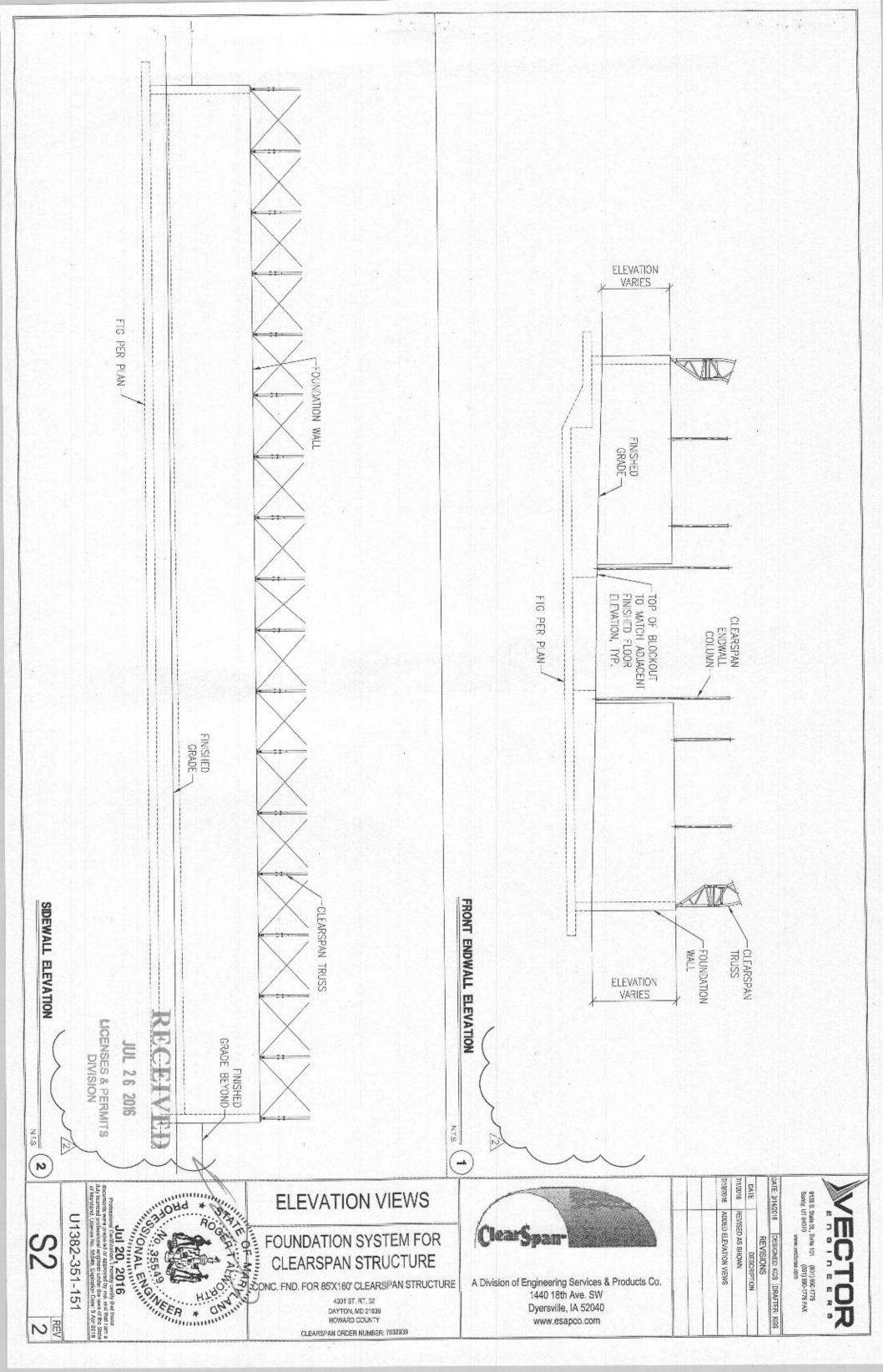
### **GENERAL NOTES**

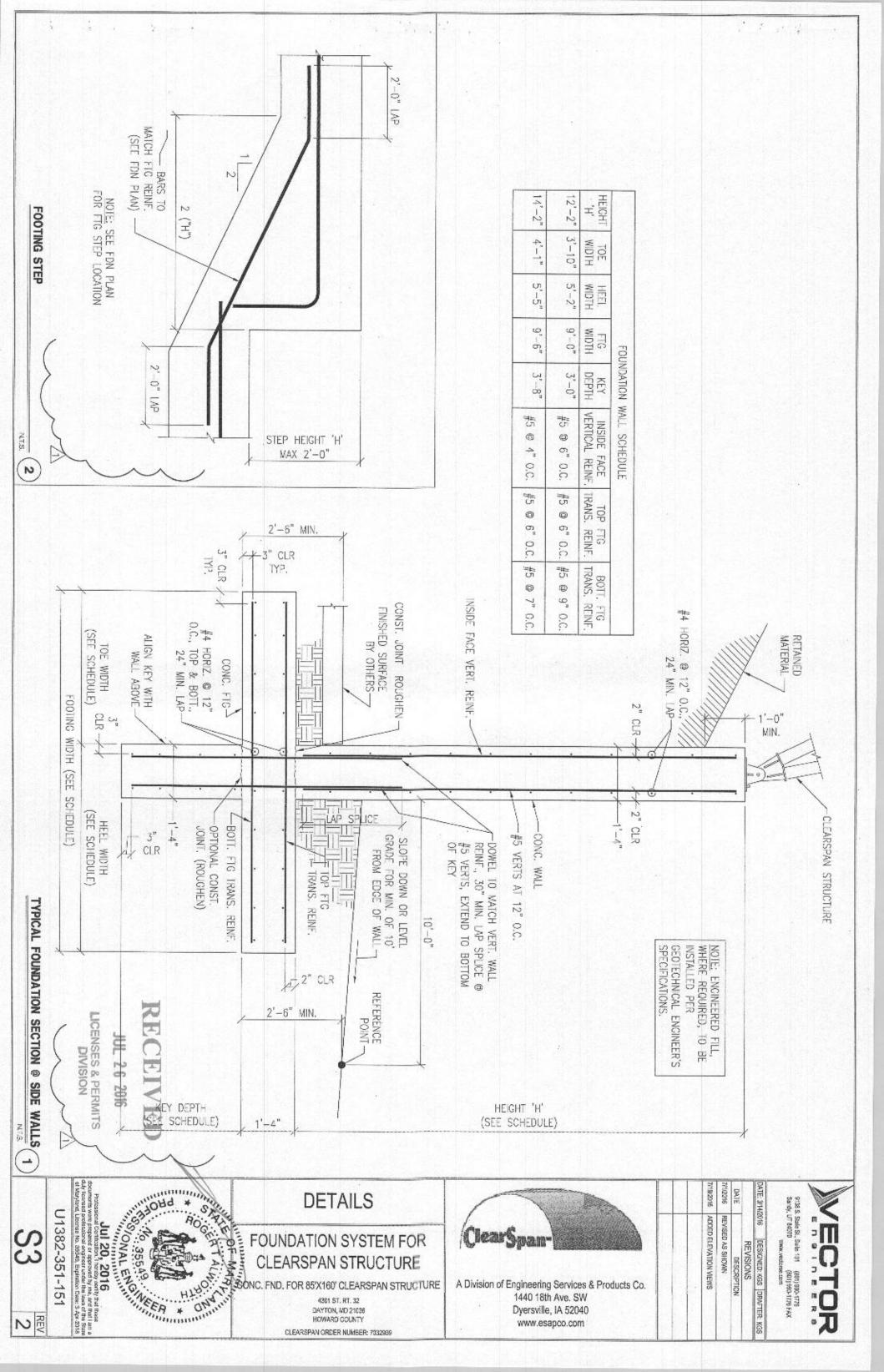
DAYTON, MD 21036

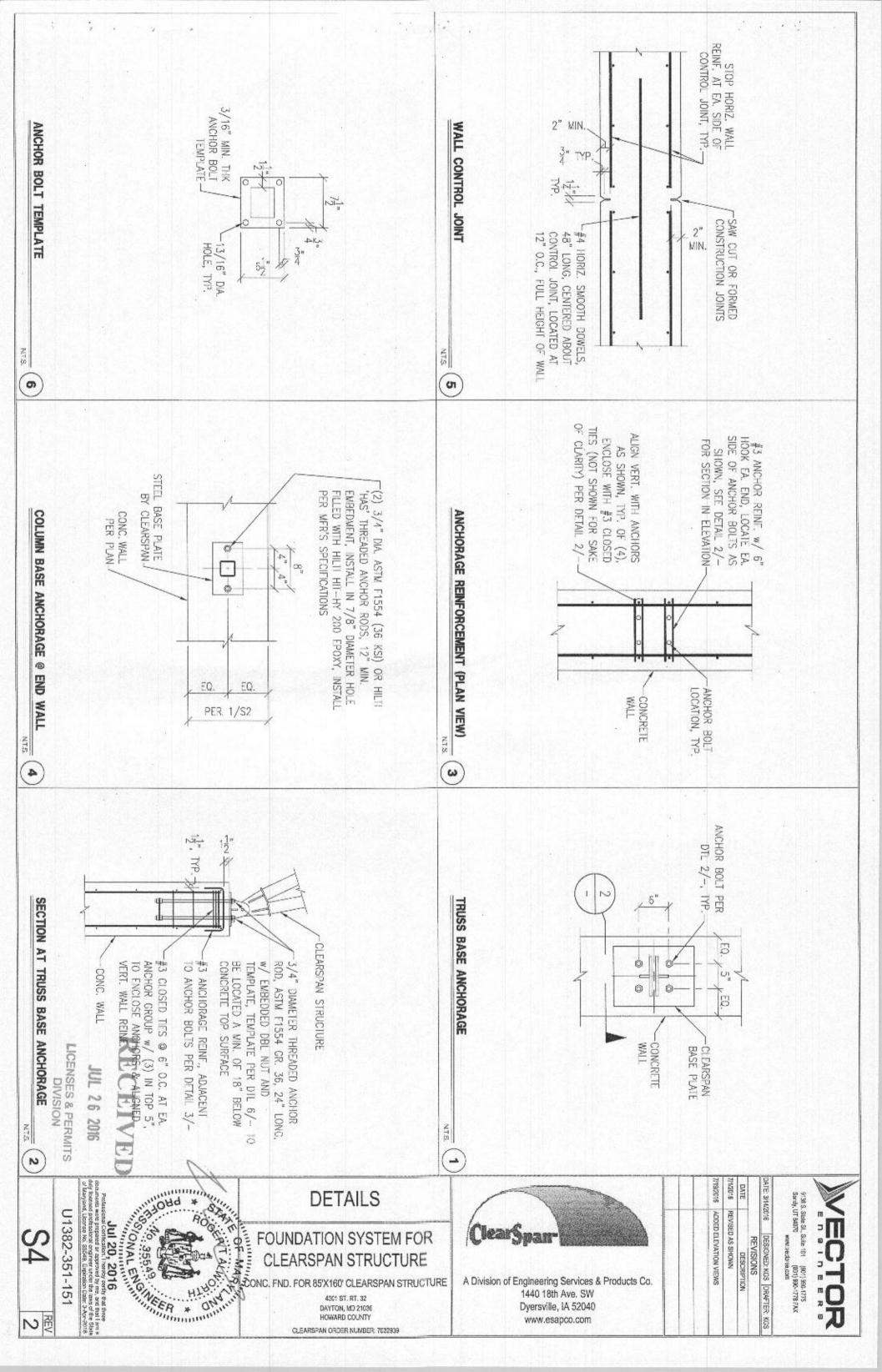
HOWARD COUNTY

CLEARSPAN ORDER NUMBER: 7032939









Dead Load, Cable (Wz2) DL Dead Load, Cable (Wz) Wind Load Wind Load 'See notes below Load Case Wz2 P Wz ADDITIONAL UNFACTORED BASE REACTIONS TO Pox (kip) 0.05 3.43 0.02 3.72 CONSIDER AT BASES WITH CABLE ATTACHED Ry (kip) -17.67 Side A 0.14 6.78 0.09 Rz (kip) 0.02 1.21 Px (kip) 5,18 -0.02 -0.05 4.32 Ry (kip) -16.76 Side B 0.14 3.94 0.09 Rz (kip) 0.01 1.12

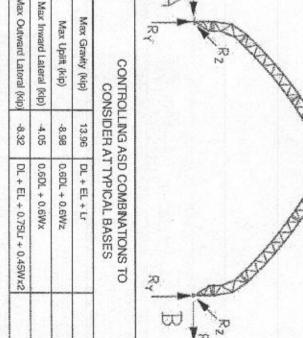
*See notes below		TO CON:	TORED B	UNFACTORED BASE REACTIONS TO CONSIDER AT TYPICAL BASES	LBASE
		bis	Side A	B. epiS	8.B
Load Case		Rx (kip)	Ry (kip)	Rx (kip)	Ry (kip)
Dead Load, Self Weight	DL	0.55	1.34	-0.55	1.34
Dead Load, Collateral	臣	0.29	0.50	-0.29	0.50
Snow Load, Balanced	co	3.03	5.08	-3.03	5.08
Snow Load, Unbalanced	Su	2.55	3,09	-2.55	4.94
Wind Load	Wx	-7.31	-7.97	-2.97	-8.56
Wind Load	Wx2	477	5.50	-6.51	4.91
Wind Load	Wz2	-2.55	-16.31	4.26	-15.67
Wind Load	Wz2	-0.02	-2.83	1.72	-2.20
Roof Live Load	4	6.66	12.11	-6.66	12.11
0	0	0.00	0.00	0.00	0.00

9	May Outward I storal /kin -8.34   DI + FI + 0.75I r + 0.45Wx2	20.00	lay Outward I storal (kin)
	0.6DL + 0.6Wx	4.04	Max Inward Lateral (Kip) 4.04 0.6DL + 0.6Wx
	-9.74 0.6DL + 0.6Wz	-9.74	Max Uplift (kip)
2	14.12 DL + EL + 0.75Lr + 0.45Wz2	14.12	Max Gravity (kip)
NS TO	ADDITIONAL CONTROLLING ASD COMBINATIONS TO CONSIDER AT BASES WITH CABLE ATTACHED	NTROLL	ADDITIONAL CO.

JUL 26 2016

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ANOT	
CONTROL	
I ING ASD COMP	
COMBINAT	
OT SNOT	

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### STRUCTURE REACTIONS

### FOUNDATION SYSTEM FOR **CLEARSPAN STRUCTURE**

CONC. FND. FOR 85'X160' CLEARSPAN STRUCTURE

4301 ST. RT. 32 DAYTON, MD 21035 HOWARD COUNTY CLEARSPAN ORDER NUMBER: 7032309



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7/19/20/16 7/1/2016 MTE 3/14/2016 ADDED ELEVATION VIEWS REVISED AS SHOWN DESIGNED: KGS DRAFTER: KGS REVISIONS DESCRIPTION

SLN

CLEARSPAN STRUCTURE REACTIONS
FOR REFERENCES

LICENSES & PERMITS DIVISION

355A9

Jul 20, 2016

served Certification, I learly cartify that thesis were pregisted or approved by ms. and that I am a processional engineer under the laws of this State License No. 35540, Expiration Data: 5 Apr 2015 U1382-351-151

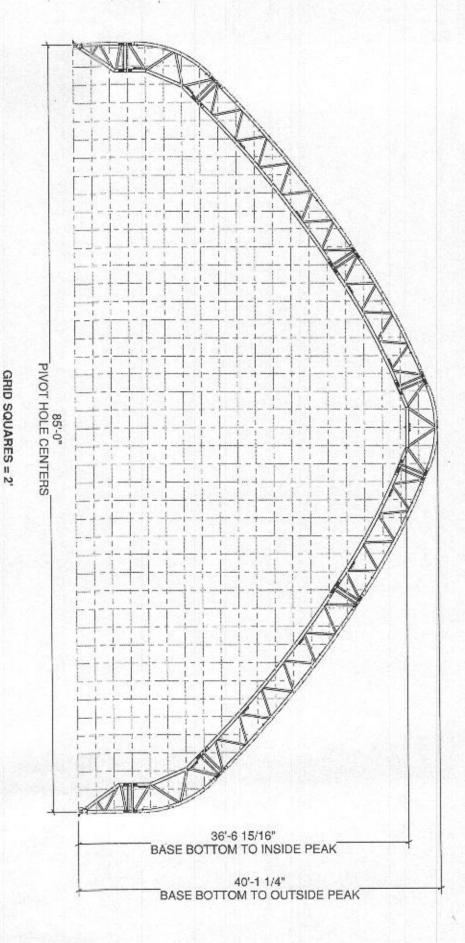
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## ADDITIONAL INFORMATION

THESE PRINTS IDENTIFY AND SHOW THE MAIN COMPONENTS AND CONNECTIONS FOR THIS BUILDING. LENGTH, WIDTH, AND OTHER IMPORTANT DIMENSIONS ARE ALSO PRESENT.

TO BEST UNDERSTAND HOW TO CONSTRUCT THIS BUILDING, THE INFORMATION CONTAINED WITHIN THESE SHEETS SHALL BE USED WITH THE INSTRUCTION MANUAL SHIPPED WITH THE BUILDING.

THE INSTRUCTIONS INCLUDE DETAILS NEEDED DURING CONSTRUCTION.



## 85GBMF021160 85x160 GBM TRUSS FRAME

## BUILDING CONTENT GUIDE:

[C1]	[B1]	[A1]
[C1]BUILDING PLAN VIEW	[B1]GENERAL NOTES	[A1]COVER SHEET

....RAFTER PROFILES

.MATERIAL SPECIFICATIONS

SIDE PROFILES

[G2] [61] .DETAIL GENERAL CONNECTION DETAILS LOCATIONS & BASE DETAILS

田 [G3] ...CABLE LAYOUT & DETAILS BASE PLATE LAYOUT & DETAILS

OMITTED

BUILDING REACTION DATA

OMITTED

[L1 - L3] .... ..FRONT ENDWALL: EW085GBF0531D

[M1 - M2]..... .BACK ENDWALL: EW085GBF0480D

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ST	2	4	3	ra.	-	NO.		BHB
SHEET:	BADS OF TON		28.1		NWS	378	HEV	BHB BHB
A1	845ET 82TC 1007				6/24/2016	BEVISION DATE	REVISIONS:	2/18/2018

DRAWING DETAILS

LICENSES & PERMITS DIVISION

CUSTOMER INFORMATION: DEPARTMENT OF PUBLIC 9250 BENDIX RD GOLUMBIA, MD 21045-1832	WORKS	sтвистияє sku ∉: Т085GBMF021160	
CUSTOMER CONTACT: JOHN CAPPELLETTI	CONTACT PHONE: 410-382-7098	STRUCTURE SIZE: 85' X 160'	
SHEET TITLE: COVER SHEET		STRUCTURE DESCRIPTION: 85x160 GBM TRUSS FRAME	



(801) 990-1775 9138 S. STATE STREET, SUITE 101 (801) 990-1776 FAX SANDY, UTAH 84070

PROJECT NUMBER: U1382-351-162

Own Swan

7032939

6764428

## SITE LOCATION AND BUILDING DESCRIPTION:

SITE LOCATION:

4301 ST. RT. 32 DAYTON, MD 21036 HOWARD COUNTY

BUILDING SIZE: BUILDING TYPE: CONSTRUCTION TYPE: 85' X 160': 13,600 SQUARE FEET PRE-ENGINEERED FABRIC STRUCTURE IIB

FIRE-RATED (PER NFPA 701)

### GENERAL NOTES:

FABRIC:

DESIGNED IN CONFORMANCE WITH THE STRUCTURAL PROVISIONS OF THE INTERNATIONAL BUILDING CODE, 2015 EDITION.

### N DESIGN LOADS:

OBA ROOF LIVE LOAD: ROOF SNOW LOADS: 30 PSF (NON-REDUCIBLE)

ಬಿತ್ತಕ್ಕೆ ಬ (GROUND SNOW LOAD) = 25 PSF
(SNOW EXPOSURE FACTOR)
= 0.9 (FULLY EXPOSED TERRAIN CATEGORY C)
(THERMAL FACTOR) = 1.2 (COLD ROOF)
(SNOW IMPORTANCE FACTOR) = 1.0 (RISK CATEGORY II)
(FLAT ROOF SNOW LOAD) = 18.9 PSF
(SLOPED ROOF SNOW LOAD) = Cs Pf
(SLOPE FACTOR) = AS DETERMINED FOR GABLE OR
ARCHED ROOF PER ASCE 7 (BALANCED AND
UNBALANCED LOADING CONDITIONS CONSIDERED)

SNOW DRIFTING FROM ADJACENT BUILDINGS, STRUCTURES, OR ANY OTHER HORIZONTAL SURFACES HAS NOT BEEN CONSIDERED.

D WIND DESIGN DATA: (MAIN WIND FORCE RESISTING SYSTEM)

SSEETS V (ULTIMATE WIND SPEED) = 115 MPH
(WIND DIRECTIONALITY FACTOR) = 0.85
(WIND TOPOGRAPHIC FACTOR) = 1.0 (ASSUMED)
(EXPOSURE CATEGORY) = C
(INT. PRES. COEFF.) = 4/-0.55 (PARTIALLY ENCLOSED)
(EXT. PRES. COEFF.) = AS DETERMINED FOR GABLE OR ARCHED ROOF: PER ASCE 7

BOLTS:

COMPONENTS AND CLADDING WIND PRESSURE: PER ASCE 7

EARTHQUAKE DESIGN DATA: (EQUIV. LATERAL FORCE METHOD)

SEISMIC DESIGN CATEGORY = B

RISK CATEGORY = II, SEISMIC IMPORTANCE FACTOR = 1.0

Ss = 0.123 g, S1 = 0.051 g, SITE CLASS: D

Sbs = 0.131 g, Sb1 = 0.081 g

Cs = 0.044 , R = 3, SEISMIC BASE SHEAR = 2.72 KIPS

BASIC SEISMIC-FORCE-RESISTING SYSTEM = STEEL SYSTEMS

NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE.

CABLES AND HARDWARE:

SPUD WRENCH.

ω THE TRUSSES ARE DESIGNED TO ACCOMMODATE LIMITED ADDITIONAL WEIGHT. ADDITIONAL LOADS, SUCH AS FOR LIGHTING, HEATING, AND VENTILATING EQUIPMENT, SHALL NOT EXCEED 1,000 LBS. PER ASSEMBLED TRUSS, WITHOUT THE WRITTEN APPROVAL OF THE DESIGN ENGINEER. LOADS SHALL BE APPLIED AT PANEL POINTS (POINTS OF CONTACT BETWEEN TRUSS WEB AND CHORD), AND SHALL BE DISTRIBUTED SO THAT NO MORE THAN 150 LBS. IS SUSPENDED FROM ANY SINGLE LOCATION.

### FOUNDATION:

3. USE THIMBLES WITH CABLE SLEEVES IN ALL LOOP-END APPLICATIONS

BOX BOLT DIA.

HOLE DIA.

5/16"

CABLE SLEEVES SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

ALL CABLE SHALL BE GALVANIZED STEEL, MULTIPURPOSE, 7X19 (UP TO 3/8" DIA.) OR 6X26 (1/2" DIA.) CLASS STRAND CORE COMMERCIAL GRADE, OF DIAMETER INDICATED.

TENSION CABLES AT TURNBUCKLE TO TAUT CONDITION (STRAIGHT AND NOT SLACK OR LOOSE).

TIGHTEN CABLES SEQUENTIALLY TO AVOID TWISTING OR DEFORMING STRUCTURAL ELEMENTS DURING ERECTION. RECHECK PREVIOUSLY TIGHTENED CABLES UNTIL ALL CABLES ACHIEVE TAUT CONDITION.

REFER TO FOUNDATION DRAWINGS BY VECTOR ENGINEERS

## GENERAL ABBREVIATIONS:

TOS TOP OF STEEL / TSL TOP OF SLAB / GALV. GALVANIZED / FND FOUNDATION / EL ELEVATION / RND. ROUND / GA GAUGE / DIA. DIAMETER / TYP. TYPICAL / LBS. POUNDS / CL CENTERLINE

### SITE CONDITIONS:

JOBSITE, INFORMATION CONTAINED HEREIN IS BASED ON CLIENT SUPPLIED DATA AND MEASUREMENTS. THE DESIGN AND DEPICTED FABRICATION, ERECTION, AND FOUNDATION DRAWINGS ARE ONLY VALID FOR THE EXACT DESIGN PARAMETERS AND COMBINATIONS OF PARAMETERS DOCUMENTED, NEITHER CLEARSPAN NOR THE BUILDING ENGINEER SHALL BE HELD RESPONSIBLE OR LIABLE IN ANY WAY FOR ERRONEOUS OR INACCURATE DATA OR MEASUREMENTS. WORK SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CLEARSPAN AND/OR THE BUILDING ENGINEER SHALL BE NOTIFIED AND GIVEN AN OPPORTUNITY TO RE-EVALUATE THEIR WORK UPON DISCOVERY OF ANY INACCURATE INFORMATION PRIOR TO MODIFICATION OF EXISTING FIELD CONDITIONS AND FABRICATION AND INSTALLATION OF MATERIALS.

### STEEL:

- 1. UNLESS OTHERWISE NOTED, ALL STRUCTURAL STEEL TUBING SHALL BE GALVANIZED, MIN. YIELD STRENGTH 50 KSI, AND SHALL MEET OR EXCEED THE REQUIREMENTS OF ASTM A500.
- 2 UNLESS OTHERWISE NOTED, STEEL PLATES SHALL COMPLY WITH ASTM A572 GRADE 50 OR EQUAL FOR 3/16" OR GREATER THICKNESS AND ASTM A1011 GRADE 50 OR ASTM A653 GRADE 50 OR EQUAL FOR LESS THAN 3/16" THICKNESS.
- ALL STRUCTURAL STEEL IS TO BE FABRICATED IN ACCORDANCE WITH THE LATEST EDITION OF AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS."

1. UNLESS OTHERWISE NOTED, ALL BOLTED CONNECTIONS SHALL USE GRADE 2 OR A307 OR BETTER BOLTS WITH COMPATIBLE WASHERS AND NUTS OF DIAMETERS INDICATED ON PLANS. BOLTS NEED ONLY BE TIGHTENED TO THE SNUG-TIGHT CONDITION. THE SNUG-TIGHT CONDITION IS DEFINED AS THE TIGHTNESS ATTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH, OR THE FULL EFFORT OF A MAN USING AN ORDINARY

ALL WELDING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF AWS D1.1 AND D1.3.

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(801) 990-1776 FAX

(801) 990-1775

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- REFER TO AWS PUBLICATION D19.0-72: WELDING ZINC-COATED STEEL AND "WELDING GUIDELINES" PUBLISHED BY ALLIED TUBE AND CONDUIT-HARVEY ILLINOIS, FOR RECOMMENDED PROCESSES AND PRACTICES FOR WELDING GALVANIZED STEEL.
- ALL SHOP WELDING IS TO BE PERFORMED BY CERTIFIED WELDERS

ω

## PAINTING AND TOUCH-UP:

- 1. AFTER SHOP FABRICATION, PAINT ALL BARE STEEL, WELDS, AND ABRADED AREAS WITH COLD GALVANIZING COMPOUND CONSISTENT WITH GALVANIZED TUBE MANUFACTURER'S RECOMMENDATIONS FOR COLOR AND COMPOSITION. PRIOR TO TOUCH-UP, CLEAN WELDED AND ABRADED AREAS WITH A WIRE BRUSH. SURFACES MUST BE CLEAN AND OIL FREE.
- AFTER FIELD INSTALLATION, TOUCH-UP ANY FIELD WELDS AND DAMAGED AREAS WITH COLD GALVANIZING COMPOUND.

E

9138 S, STATE STREET, SUITE 101

SANDY, UTAH 84070

8

PROJECT NUMBER: U1362-351-162

E

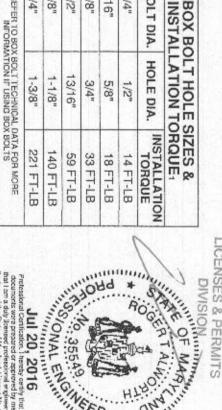
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## ERECTION AND FIELD QUALITY CON ITROL:

- 1. THE ERECTOR IS RESPONSIBLE FOR DESIGNING AND FURNISHING ALL TEMPORARY BRACING, SHORING, AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF ERECTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE STRUCTURAL ENGINEER ASSUMES NO LIABILITY FOR THE STRUCTURE DURING ERECTION.
- N NO MODIFICATIONS OR ALTERATIONS (OTHER THAN THOSE SHOWN ON THE DRAWINGS) SHALL BE MADE IN ANY STRUCTURAL MEMBER OR CONNECTION WITHOUT THE WRITTEN APPROVAL OF THE DESIGN ENGINE

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LICENSES & PERMITS



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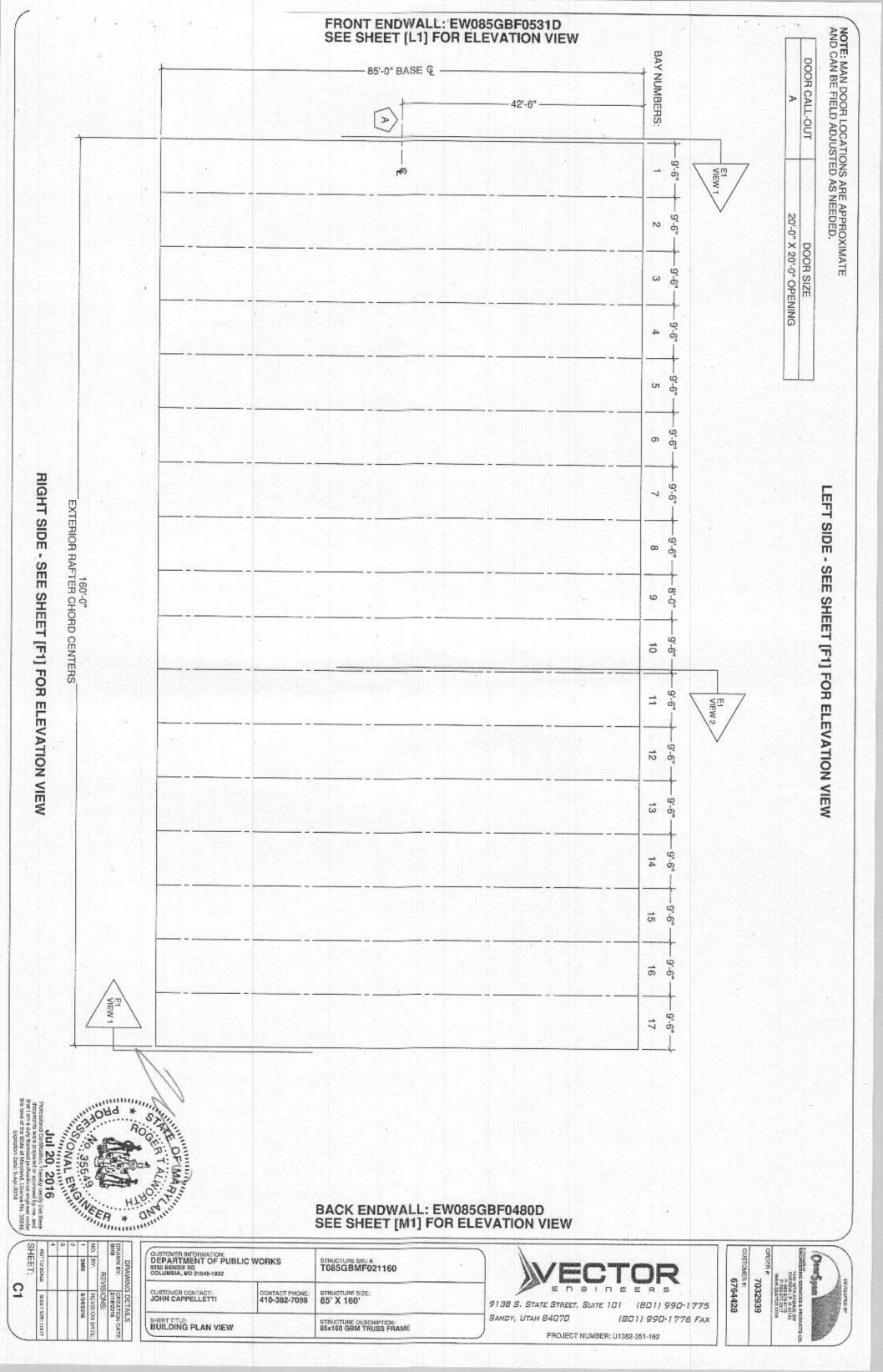
1. REFER TO BOX BOLT TECHNICAL DATA INFORMATION IF USING BOX BOL

1-3/8" 1-1/8" 13/16" 3/4" 5/8" 1/2"

5/8" 1/2 3/8"

0	New Little	0	EER.
	CUSTOMER INFORMATION: DEPARTMENT OF PUBL 9260 BENDIX RD COLUMBIA, MD 21045-1832	IC WORKS	sтпистияє sки #. Т085GBMF021160
	OUSTOMER CONTACT: JOHN CAPPELLETTI	CONTACT PHONE: 410-382-7098	STRUCTURE SIZE: 85' X 160'
	SHEET TITLE: GENERAL NOTES		STRUCTURE DESCRIPTION: 85x160 GBM TRUSS FRAME

0	Mylinde			EB
-	CUSTOMER INFORMATION: DEPARTMENT OF PUBL 9260 BENDIX RD COLUMBIA, MD 21646-4892	IC WORKS	sтпистине sku и: Т085GBMF021160	
-	OUSTOMER CONTACT: JOHN CAPPELLETTI	CONTACT PHONE: 410-382-7098	STRUCTURE SIZE: 85' X 160'	
	SHEET TITLE: GENERAL NOTES	11 11 11 12	STRUCTURE DESCRIPTION: 85x160 GBM TRUSS FRAME	



TEM B&E C&D SEGMENT G2 9 0 X I П SEGMENT SUPPORT BASE SWAY CABLE ASSEMBL BASES WINCH ASSEMBLY SPLICE CABLE ASSEMBLY BRACING WINCH PLATE WEB (STRAIGHT) PIVOT PLATE (CHORD)
PIVOT PLATE (ROUND) WEB (ANGLED) WEB (STRAIGHT) INNER CHORD OUTER CHORD LATERAL BRACING (MID) OUTER CHORD INNER CHORD OUTER CHORD AB CONNECTION PLATE ANGLED BRACE VERTICAL (ROUNDED)
THREADED STUD WEB (ANGLED) WEB (STRAIGHT) STRAP SPLICE OUTSERTS CABLE CONNECTION PLATE THREADED STUD PLATE LATERAL BRACING (END) GUSSETS HORIZONTAL WEB (ANGLED) INNER CHORD CABLE CONNECTION PLATE THREADED STUDS HORIZONTAL MINCH DESCRIPTION GALV. RND. STEEL TUBE - Ø 1.90" - 14 GA GALV. RND. STEEL TUBE - Ø 2.375" - 14 GA STEEL PLATE, 1/2" THICK STEEL PLATE, 1/2" THICK GALV. RND. STEEL TUBE - Ø 1.9", 2.375" - 14 GA GALV. RND. STEEL TUBE - Ø 4.0" - 7 GA SEE SHEET G3 STEEL PLATE, 5/16" THICK CFL FULLY THREADED STUD - 1/2"-13 x 1" STEEL PLATE, 3/8" THICK STEEL PLATE, 1/2" THICK STEEL PLATE, 3/8" THICK GALV. RND. STEEL TUBE - Ø 1.90" - 14 GA GALV. RND. STEEL TUBE - Ø 1.90" - 14 GA GALV. RND. STEEL TUBE - Ø 4.0" - 10 GA GALV. RND. STEEL TUBE - Ø 4.0" - 10 GA GALV. RND. STEEL TUBE • Ø 4.0" • 7 GA GALV. RND. STEEL TUBE • Ø 4.0" • 7 GA GALV. RND. STEEL TUBE - Ø 4.0" - 7 GA STEEL PLATE, 1/2" THICK
CFL FULLY THREADED STUD - 1/2"-13 x 1" 2" LASHING WINCH (10,000 LBS, STRENGTH)
2" STRAP (10,000 LBS, STRENGTH) SEE SHEET G3 STEEL PLATE, 1/8" THICK 1/4" PLATE W/ 1/2" X 2" STUDS STEEL PLATE, 1/4" THICK GALV. RND. STEEL TUBE - Ø 3.5" - 14 GA GALV. RND. STEEL TUBE - Ø 2.875" - 14 GA GALV. RND. STEEL TUBE - Ø 3.5" - 14 GA GALV. RND. STEEL TUBE - Ø 1.90" FORMED STEEL BAR, 5/16" THICK MATERIAL 14 GA

NOTE: THIS VIEW IS GENERIC TO ILLUSTRATE LOCATIONS OF ITEMS IN THE TABLE ONLY. CABLE PATTERN AND/OR OTHER DETAILS MAY NOT FULLY MATCH THE SPECIFICS FOR THIS ORDER. SEE OTHER SHEETS FOR ORDER-SPECIFIC DETAILS.

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LICENSES & PERMITS
DIVISION

Jul 20, 2016
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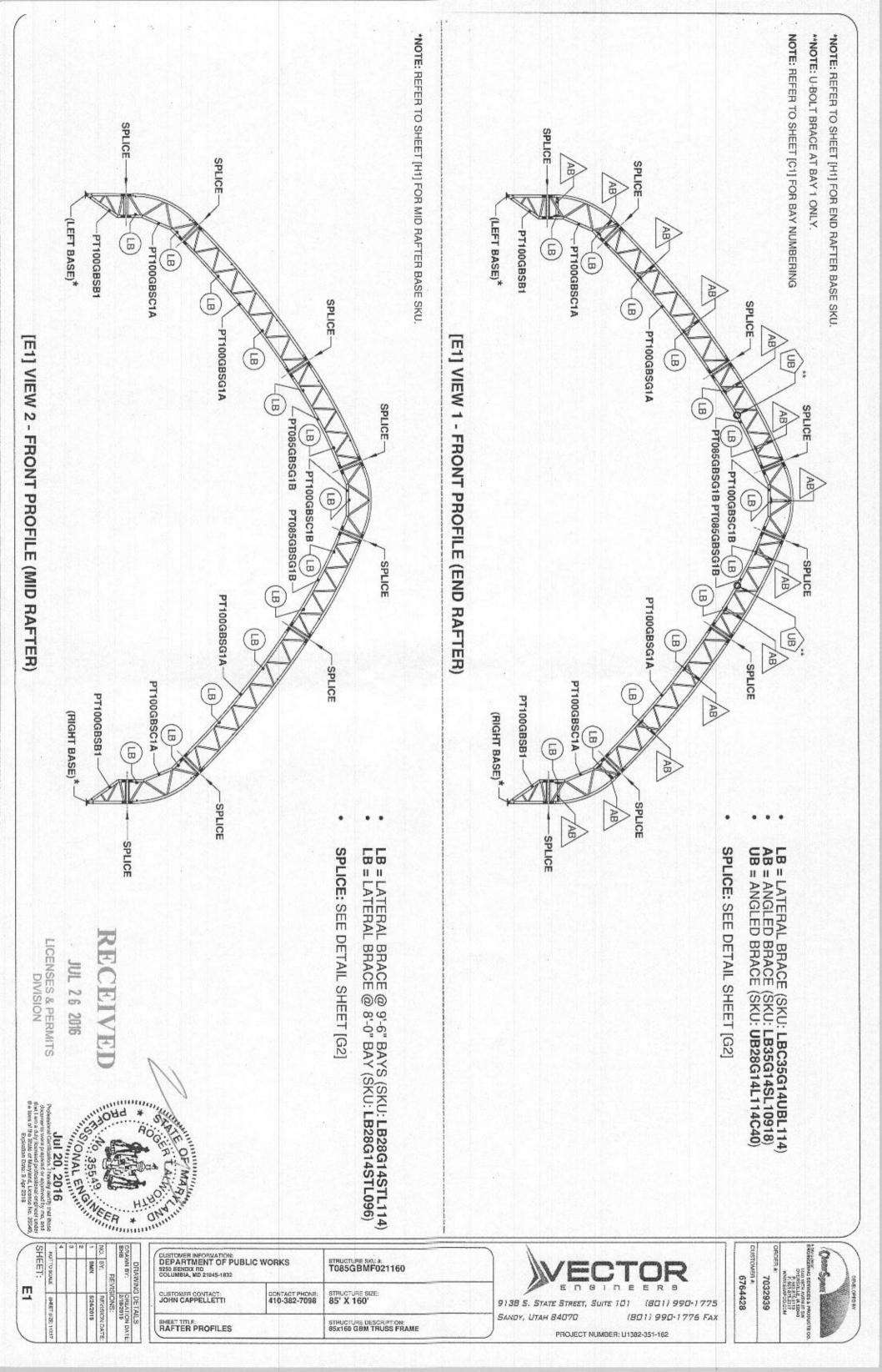
CUSTOMER INFORMATION: DEPARTMENT OF PUBL 9260 BENDIX RD COLUMBIA, MD 21045-1832	LIC WORKS	STRUCTURE SAU #: T085GBMF021160
GUSTOMER CONTACT: JOHN CAPPELLETTI	CONTACT PHONE: 410-382-7098	STRUCTURE SIZE 85' X 160'
SHEET TITLE: MATERIAL SPECIFICAT	TONS	STRUCTURE DESIGNIPTION: 85x160 GBM TRUSS FRAME



9138 S. STATE STREET, SUITE 101 (801) 990-1775 SANDY, UTAH 84070 (801) 990-1776 FAX

PROJECT NUMBER: U1382-351-162

		**		1
CUSTOMER#:	ORDER #: 7032939	ENUMERON SERVICES A PRODUCTS CO.  1440 STYL AVENUE SN  1440 STYL AVENUE SN  1450 STYL AVENUE SN  1550 STYL AVENUE	Company of the last	AE GENOLOGIE



NOTE: WINCH PLATES (IF APPLICABLE) TO BE CENTERED BETWEEN RAFTERS, UNLESS NOTED OTHERWISE. W = WINCH PLATE LOCATION FRONT OF STRUCTURE BACK OF STRUCTURE BAY NUMBERS: BAY NUMBERS: 17 W 4 🛚 16 N 15 W ω 🛛 **1** ₹ 4 13 Ot 🗧 12 o [¥ **≒** 7 W RIGHT SIDE VIEW LEFT SIDE VIEW 10 × . ∞ ₹ 9 8 10 🛛 7 🛛 **1** ≥ 6 🛛 12 51 13 ₹ 4 14 ω 🔻 15 N <del>1</del>6 ₹ **→** 🛛 LICENSES & PERMITS
DIVISION × TUL 26 FRONT OF STRUCTURE BACK OF STRUCTURE 2016 NA \* STATE y certly that thoso proved by me, and sold engineer under Liberge No. 36549.

DRAWING L BH8

CUSTOMER INFORMATION: DEPARTMENT OF PUBLIC WORKS 9256 BENDIX RD COLUMBIA, MD 21045-1632

JOHN CAPPELLETTI

SIDE PROFILES

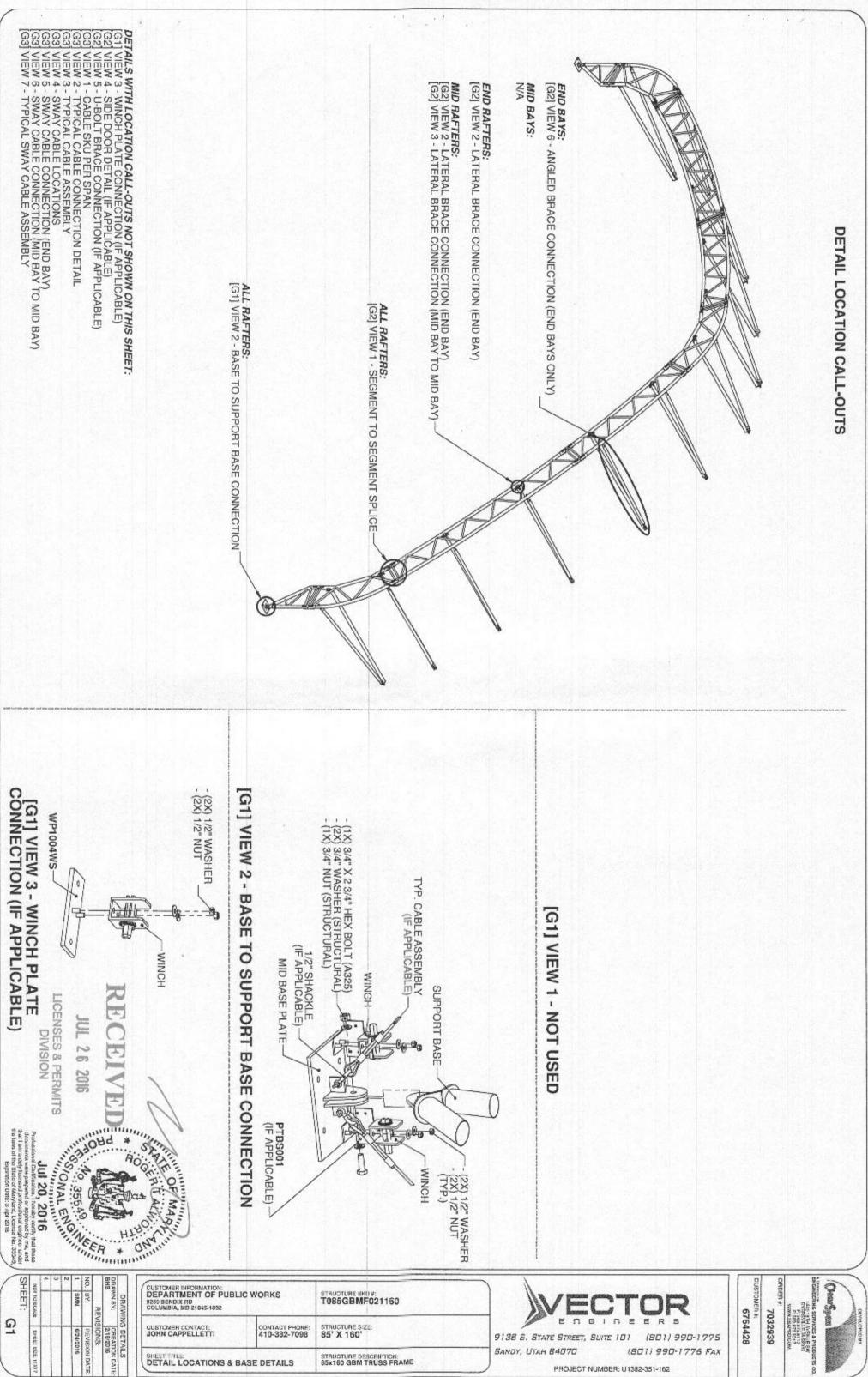
00NTACT PHONE 410-382-7098

SHEET:

I

STRUCTURE SKU 4: T085GBMF021160 6764428 7032939 85' X 160' (801) 990-1775 9138 8. STATE STREET, SUITE 101 (801) 990-1776 FAX SANDY, UTAH 84070 STRUCTURE DESCRIPTION: 85x160 GBM TRUSS FRAME PROJECT NUMBER: U1382-351-162

NOTE: REFER TO SHEET [E1] FOR FRONT PROFILE OF BRACE LOCATIONS & SHEET [C1] FOR PLAN VIEW OF DOOR LOCATIONS (IF APPLICABLE).



9138 S. STATE STREET, SUITE 101

PROJECT NUMBER: U1382-351-162

SANDY, UTAH 84070

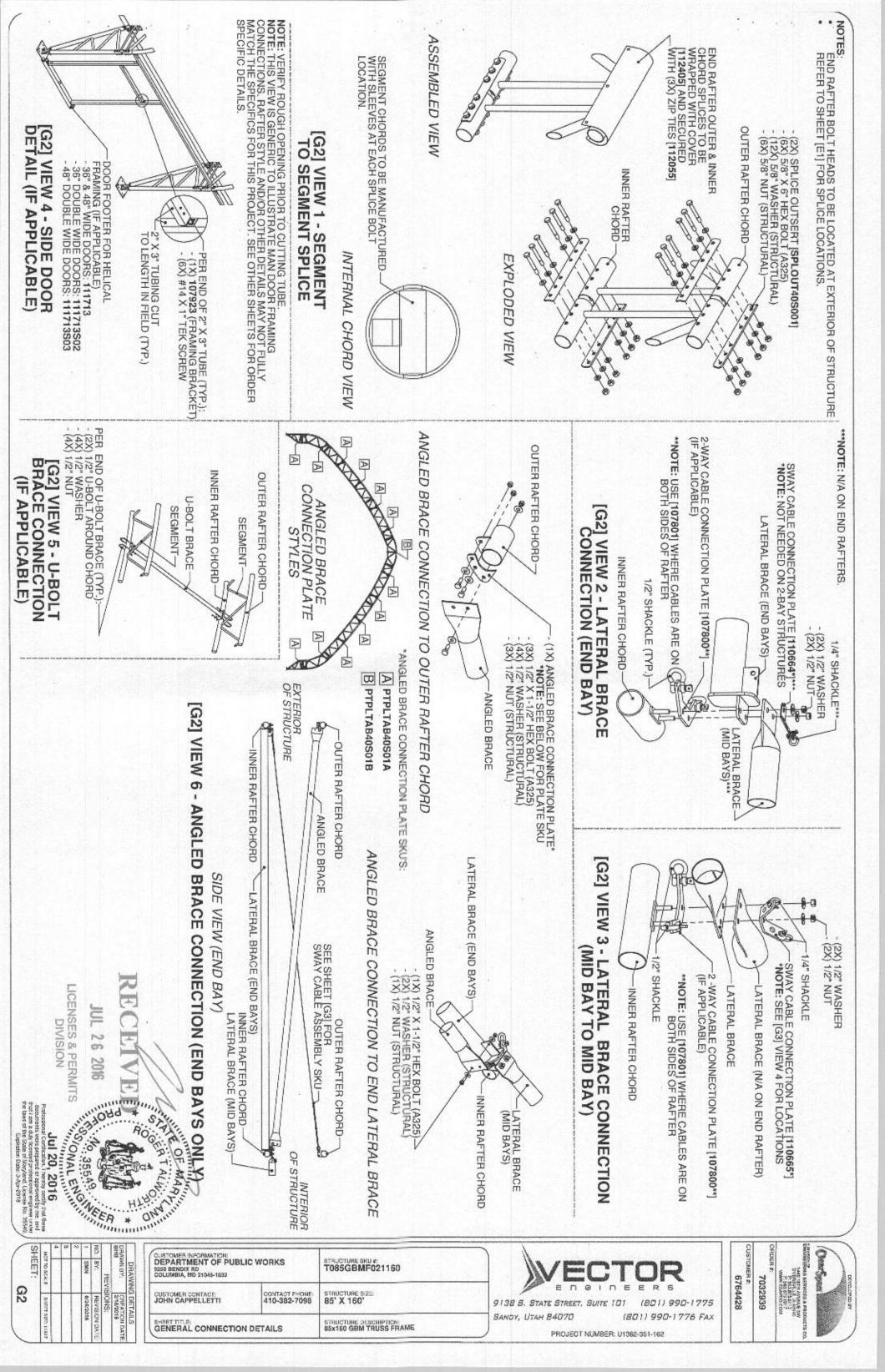
(801) 990-1775

(801) 990-1776 FAX

JOHN CAPPELLETTI

SHEET TITLE: DETAIL LOCATIONS & BASE DETAILS

STRUCTURE DESCRIPTION: 85×160 GBM TRUSS FRAME



RAFTER VIEW SHOWN REPRESENTS TYPICAL CABLE SPAN LABELS TO ILLUSTRATE LOCATIONS OF SPANS IN THE TABLE. THE CABLE PATTERN SHOWN MAY NOT FULLY MATCH THE SPECIFICS FOR THIS PROJECT.

CABLE PATTERN REPEATS ON OPPOSITE SIDE OF  $\ensuremath{\mathbb{Q}}$  UNLESS NOTED OTHERWISE.

CABLE IS NOT PRESENT IN BAY NUMBERS NOT LISTED IN TABLE.

	1/2 GALV 6X26	CABLE
	I/Z GALV	STACALE
	3/4 X 9 GALV E-E	IOHNBUCKLE
	CALL COLL COLL COLL COLL COLL COLL COLL	TIPNIPI ICKI F
	CARLE ATTACHMENT COMPONENTS	CARLE ATTACHM
<b>m</b> -		TABLE.
=	N.	ESS NOTED
G A		
6		S FOR THIS
THE PROPERTY OF THE PARTY OF TH		E CABLE

[G3]

CONNECTION DETAIL

TURNBUCKLE

NOTE: TURNBUCKLE ATTACHED TO CABLE ASSEMBLY IN FIELD.

THIMBLE (TYP.)

SLEEVE (TYP.)

\*REFER TO SHEET [C1] FOR BAY NUMBERING

CABLE ASSEMBLY SKU'S

9	5, 6, 12 & 13	4, 7, 11 & 14	3, 8, 10 & 15	2 & 16	1 & 17	BAY NUMBER*
CAB50G0709	CAB50G0811	CAB50G0811	CAB50G0811	CAB50G0811	CAB50G0811	SPAN'A'
CAB50G0610	CAB50G0800	CAB50G0800	CAB50G0800	CAB50G0800	CAB50G0800	SPAN'B'
CAB50G0802	N/A	CAB50G0903	CAB50G0903	CAB50G0903	CAB50G0903	SPAN'C'
CAB50G0905	N/A	N/A	CAB50G1005	CAB50G1005	CAB50G1005	SPAN'D'
CAB50G0905	N/A	N/A	N/A	CAB50G1005	CAB50G1005	SPAN 'E'
CAB50G0808	N/A	N/A	N/A	N/A	CAB50G0909	SPAN 'F'
CAB50G0709	N/A	N/A	N/A	N/A	CAB50G0811	SPAN'G'

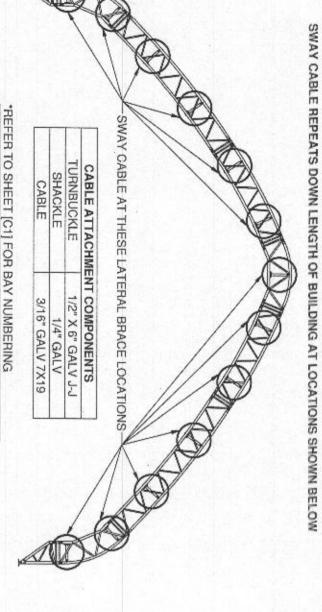
## [G3] VIEW 1 - CABLE SKU PER SPAN

SHACKLE

SWAY CABLE ASSEMBLY (END) SWAY CABLE ASSEMBLY (END)

OUTER RAFTER CHORD (MID RAFTER)

SWAY CABLE ASSEMBLY (MID)



CONNECTION (END BAY)

THIMBLE (TYP.) TURNBUCKLE (JAW-JAW) NOTE: TURNBUCKLE ATTACHED TO CABLE ASSEMBLY IN FIELD. CABLE SLEEVE (TYP.)

[G3] VIEW 7 - TYPICAL SWAY

LICENSES

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SHEET:

G3

& PERMITS

CABLE ASSEMBLY

SWAY CABLE ASSEMBLY SKU'S

**BAY NUMBER\*** 

SWAY CABLE SKU

2 - 8 & 10 - 16

CAB18G0801

CAB18G0710

CAB18G0607

1 & 17

[G3] VIEW 4 - SWAY CABLE LOCATIONS

[G3] VIEW 5 - SWAY CABLE INNER RAFTER CHORD (END RAFTER)

-LATERAL BRACE (END BAYS)

LATERAL NNER

RAFTER CHORD

SHACKLE

(MID BAYS)

BRACE (MID BAYS)

CONNEC CTION (MID BAY TO MID BAY) 3] VIEW 6 - SWAY CABLE



DRAWING DETAILS
DRAWN BY: CREATION DATE
BHB 2/18/2018

SWAY CABLE ASSEMBLY (TYP.) CUSTOMER INFORMATION: DEPARTMENT OF PUBLIC WORKS STRUCTURE SKU ¢: T085GBMF021160 9250 BENDIX RD COLUMBIA, MD 21045-1832 STRUCTURE SIZE 85' X 160' CUSTOMER CONTACT: JOHN CAPPELLETTI CONTACT PHONE 410-382-7098 SHEET TITLE: CABLE LAYOUT & DETAILS STRUCTURE DESCRIPTION: 85x160 GBM TRUSS FRAME



[G3] VIEW 3 - TYPICAL

CABLE ASSEMBLY

OUTER RAFTER CHORD

SHACKLE

CABLE

9138 S. STATE STREET, SUITE 101 (801) 990-1775 (801) 990-1776 FAX SANDY, UTAH 84070

PROJECT NUMBER: U1382-351-162

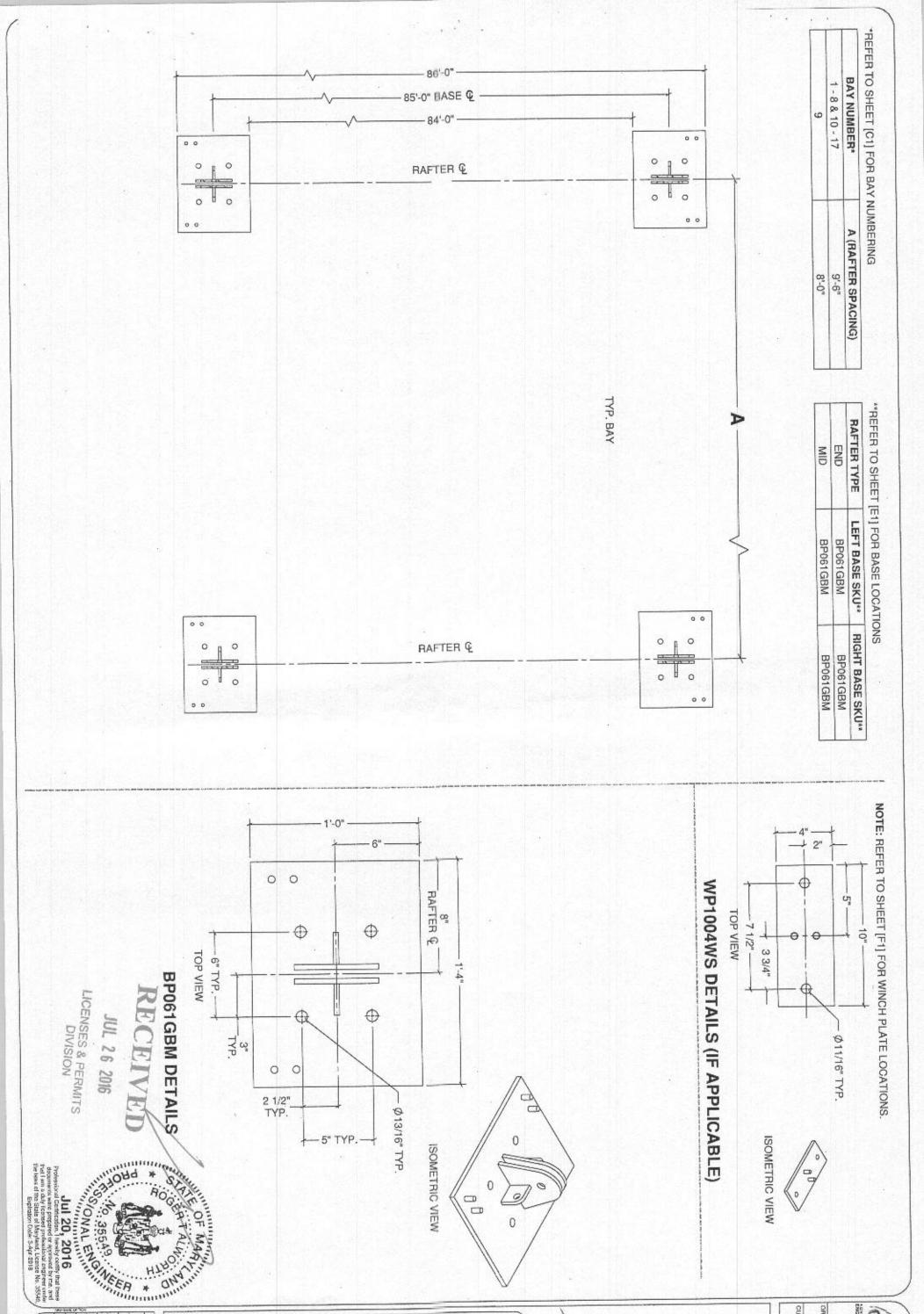
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INNER RAFTER CHORD

ATERAL BRACE

SHACKLE (TYP.)

TYPICAL CABLE ASSEMBLY (TYP.)



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LS.	SHEET:	1	Ö		BHB			
EET:				NWS	67:	REVISIO	HAWN BY:	DRAWING
=	SHEET SIZE: 11X17			6/24/2016	REVISION DATE	SIONS:	CREATION DATE 2/18/2016	GDETAILS

CUSTOMER INFORMATION: DEPARTMENT OF PUBLIC 9250 BENDIX RO COLUMBIA, MD 21045-1832	WORKS	STRUCTURE SKU #: T085GBMF021160
GUSTOMER CONTACT: JOHN CAPPELLETTI	CONTACT PHONE: 410-382-7098	STRUCTURE SIZE: 85' X 160'
SHEET TITLE: BASE PLATE LAYOUT & I	DETAILS	STRUCTURE DESCRIPTION: 85x160 GBM TRUSS FRAME



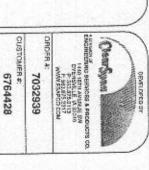
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(801) 990-1775 9138 S. STATE STREET, SUITE 101 (801) 990-1776 FAX SANDY, UTAH 84070

PROJECT NUMBER: U1382-351-162



## FOUNDATION NOTES:

- REFER TO FOUNDATION DRAWINGS BY VECTOR ENGINEERS.
- FOUNDATION MUST MEET THE BUILDING REACTION DATA SHOWN BELOW.
- SEE ENDWALL DRAWINGS FOR ENDWALL REACTIONS (IF APPLICABLE).

*See notes below		TO CON	FORED B	UNFACTORED BASE REACTIONS TO CONSIDER AT TYPICAL BASES	LBASE
		Sid	Side A	Sid	Side B
Load Case		Rx (kip)	Ry (kip)	Rx (kip)	Ry (kip)
Dead Load, Self Weight	모	0.55	1.34	-0.55	1.34
Dead Load, Collateral	E.	0.29	0.50	-0.29	0.50
Snow Load, Balanced	S	3.03	5.08	-3.03	5.08
Snow Load, Unbalanced	Su	2.55	3.09	-2.55	4.94
Wind Load	Wx	-7.31	-7.97	-2.97	-8.56
Wind Load	Wx2	4.77	5.50	-5.51	4.91
Wind Load	Wz2	-2.55	-16.31	4.26	-15.67
Wind Load	Wz2	-0.02	-2.83	1.72	-2.20
Roof Live Load	5	6.66	12.11	-6.66	1211
0 .	0	0.00	0.00	0.00	0.00

1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2					
Load Case		Rx (kip)	Ry (kip)	Rx (kip)	Ry (kip)
Dead Load, Self Weight	모	0.55	1.34	-0.55	1.34
Dead Load, Collateral	E.	0.29	0.50	-0.29	0.50
Snow Load, Balanced	S	3.03	5.08	-3.03	5.08
Snow Load, Unbalanced	Su	2.55	3.09	-2.55	4.94
Wind Load	Wx	-7.31	-7.97	-2.97	-8.56
Wind Load	Wx2	4.77	5.50	-5.51	4.91
Wind Load	Wz2	-2.55	-16.31	4.26	-15.67
Wind Load	Wz2	-0.02	-2.83	1.72	-2.20
Roof Live Load	5	6.66	12.11	-6.66	1211
0	0	0.00	0.00	0.00	0.00

LLING AS SIDER AT 13.96 -8.98	Max Outward Lateral (kip)	Max Inward Lateral (kip)	Max Uplift (kip)	Max Gravity (kip)	CONTRO	D R <sub>γ</sub>	R <sub>2</sub>	A A A
SD COMBINATIONS TO AT TYPICAL BASES  DL + EL + Lr  0.6DL + 0.6Wz  DL + EL + 0.75Lr + 0.45Wx	1700000		-8.98	13.96	DLLING A			
N	DL + EL + 0.75Lr + 0.45Wx2	0.6DL + 0.6Wx	0.6DL + 0.6Wz	DL + EL + Lr	ASD COMBINATIONS TO AT TYPICAL BASES	70 _		

*See notes below		ADDITIONS	DNAL UN	ADDITIONAL UNFACTORED BASE REACTIONS TO CONSIDER AT BASES WITH CABLE ATTACHED	ITH CAB	REACTION LE ATTA	ONS TO
			Side A			Side B	
Load Case		Rx (kip)	Ry (kip)	Rz (kip)	Rx (kip)	Ry (kip)	Rz (kip)
Wind Load	Wz	-3.72	-17.67	1.21	5.18	-16.76	1.12
Dead Load, Cable (Wz)	DL	0.02	0.09		-0.02	0.09	
Wind Load	Wz2	-3.43	6.78	0.02	-4.32	3.94	0.01
Dead Load, Cable (Wz2) DL	무	0.05	0.14		-0.05	0.14	

V2.4

Notes:

The above Reaction Data should be combined as required by the Load Combinations from IBC or other applicable code.

ADDITIONAL CONTROLLING ASD COMBINATIONS TO CONSIDER AT BASES WITH CABLE ATTACHED

Max Outward Lateral (kip) Max Inward Lateral (kip) Max Gravity (kip) Max Uplift (kip) 14.12 -4.04 -9.74 -8.34 DL + EL + 0.75Lr + 0.45Wx2 0.6DL + 0.6Wx DL + EL + 0.75Lr + 0.45Wz2 0.6DL + 0.6Wz

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Professional documents that fam a d the taxe of th	July Bar		SA	No.
Jul 20, 2016 Professional Cariffication, Translay carrify that these documents were projected or approved by me, and object and adult ferenced professional angives under the tight of Manyland, Lecense No. 38549. Expiration Date: 5-Apr-2018	0 35549 0 35549		OCERT ALL	OF MARIN
116 y certify that these rowed by one, and rowed by one, and not engineer under pleases No. 35549, r-2018	ENGINE.	ER *	ONA!	Pin
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NWS 7	NO. 67.	BHB	DNIWARD	CUSTOMER INFORMATION: DEPARTMENT OF PUBLIC WO 9250 BENDIX RD COLUMBIA, MD 21095-1832	DRKS	STRUCTURE SKU #: T085GBMF021160	
6/24/2016	REVISIONS:	2/18/2	/ING DET	CUSTOMER CONTACT: JOHN CAPPELLETTI 4	CONTACT PHONE: 110-382-7098	STRUCTURE SIZE: 85' X 160'	
9046	SION DATE:	2/18/2016	DETAILS	SHEET TITLE BUILDING REACTION DATA		STRUCTURE DESCRIPTION: 85x160 GBM TRUSS FRAME	



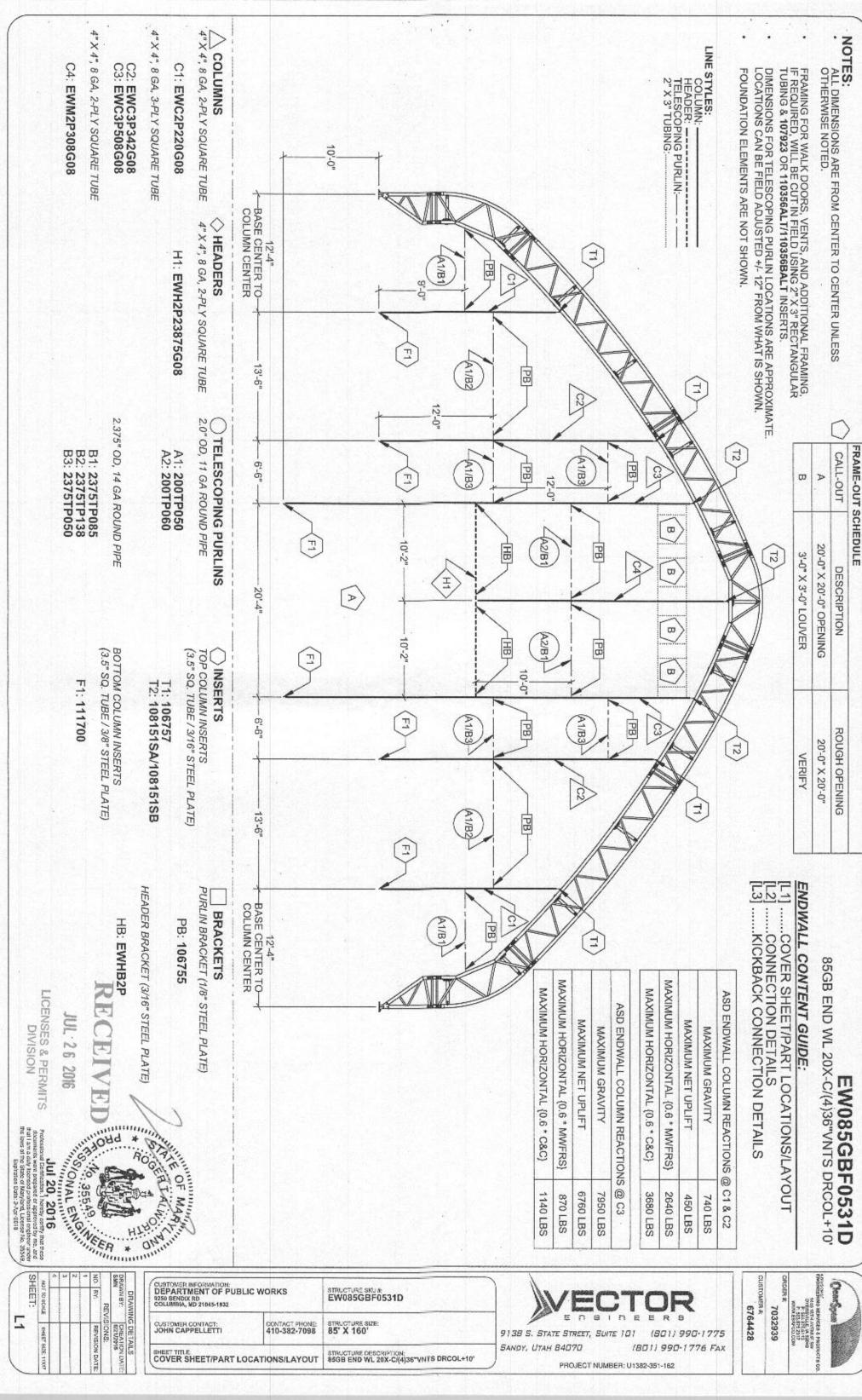
9138 S. STATE STREET, SU	ITE 101 (801) 990-1775
SANDY, UTAH 84070	18011 990-1776 FAX

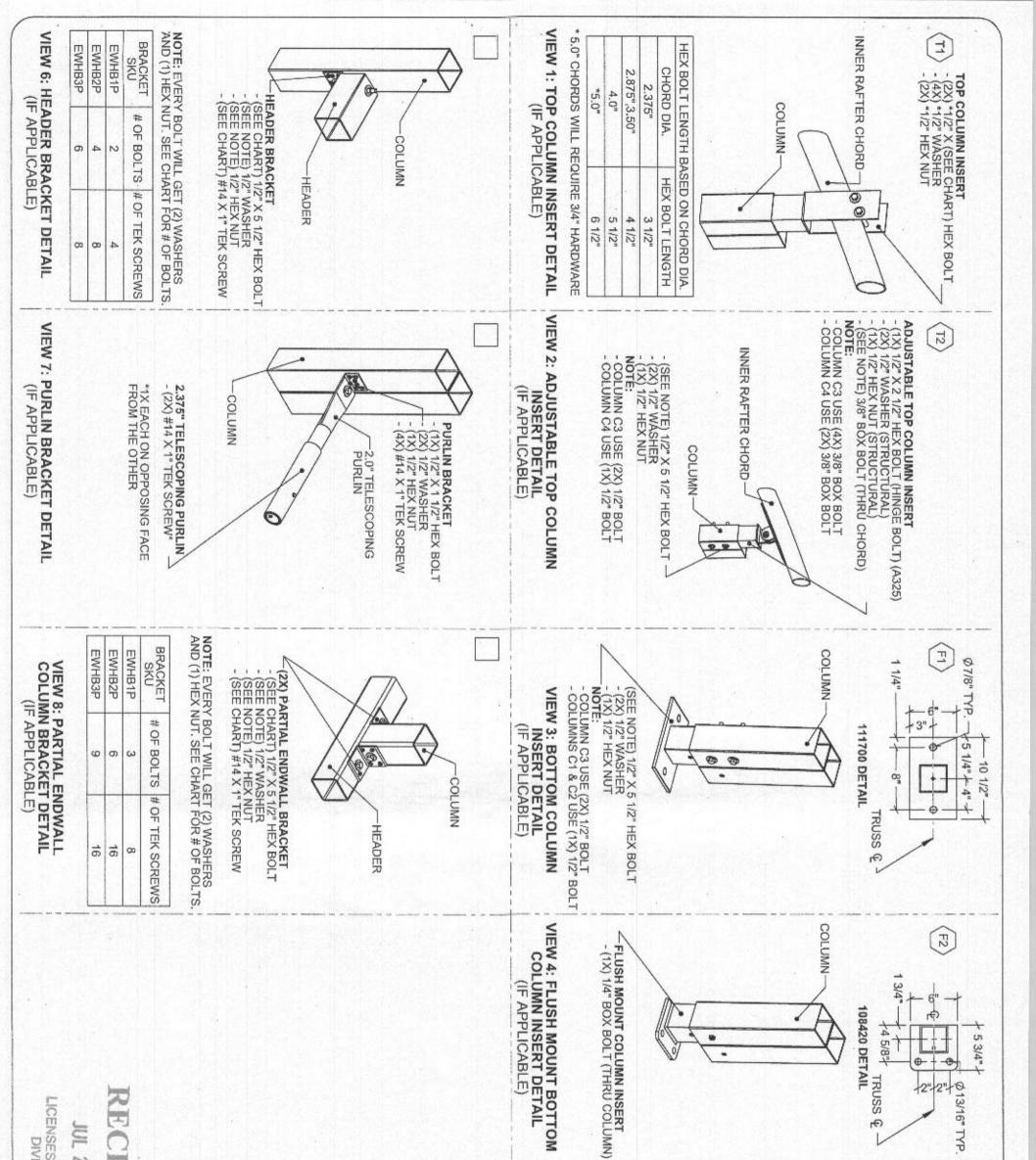
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HERMO SERVICES & PADDUCTS OF HERMO SERVICES AND PADDUCTS OF DESCRIPTION AND PADDUCTS O	DEVELOPED BY

7032939

6764428





(IF APPLICABLE)

VIEW 5: 2" X 3" INSERT DETAILS (IF APPLICABLE)

N

" X 3" FRAMING BRACKET [107923] (6X) #14 X 1" TEK SCREW

LICENSES & PERMITS DIVISION

JUL 26 2016 distantiants were proposed or apparatus by my and that I am a duly transport professional engineer under the laws of the State of Maryland, Locance No. 35549, Expiration Date: 3 Apr 2018 Jul 20, 2016

SHEET:

SHEET SIZE: 1131

2

ONAL ENGINEERS OF MARKET DRAWN BY: NO 哥 GREATION DATE: 6/21/2016 DETAILS REVISION DATE

CUSTOMER INFORMATION: DEPARTMENT OF PUBLIC WORKS STRUCTURE SKU #: EW085GBF0531D 9250 BENDIX RD COLUMBIA, MD 21045-1832 STRUCTURE SIZE: 85' X 160' CUSTOMER CONTACT: JOHN CAPPELLETTI CONTACT PHONE 410-382-7098 STRUCTURE DESCRIPTION: 85GB END WL 20X-C/(4)36"VNTS DRCOL+10" SHEET TITLE: CONNECTION DETAILS

BOX BOLT DIA.

HOLE DIA.

INSTALLATION

BOX BOLT HOLE SIZES & INSTALLATION TORQUE.

5/16"

1/4"

3/8"

1/2"

REFER

R TO BOX BOLT TECHNICAL DATA FOR MORE INFORMATION IF USING BOX BOLTS

3/4" 5/8"

1 3/8" 1 1/8" 13/16" 3/4" 5/8" 1/2"

221 FT-LB 140 FT-LB 59 FT-LB 33 FT-LB 18 FT-LB 14 FT-LB FORQUE



2" X 3" TUBING CUT TO LENGTH IN FIELD

COLUMN-

2X) #14 X 1" TEK SCREW

Constant 7032939 6764428

108420 DETAIL 14 5/8"

2" X 3" TUBING CUT TO LENGTH IN FIELD

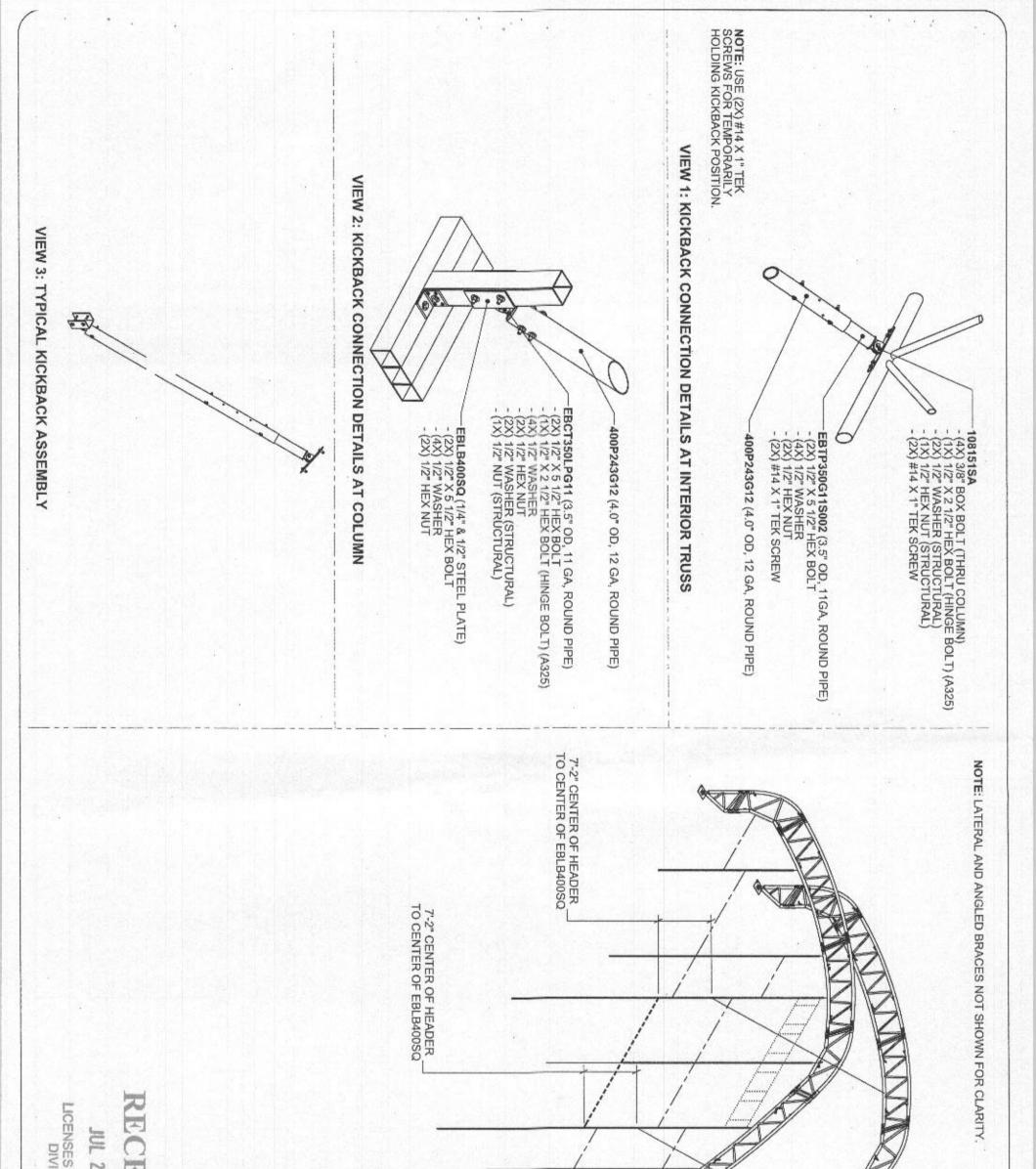
TRUSS &

5 3/4"

INNER RAFTER CHORD

Ø13/16" TYP.

SANDY, UTAH 84070 (801) 990-1776 FAX PROJECT NUMBER: U1382-351-162



SES & PERMITS DIVISION 9 2016 OF MARY HOUSE

DRAWING D SHEET S ~ G & 4 L3 IG DETAILS

DREATION DATE

021/2016

(SIONS: REVISION DATE BHEET BIZE

DEPARTMENT OF PUBLIC WORKS STRUCTURE SKU #: EW085GBF0531D 9250 BENDIX RD COLUMBIA, MD 21045-1832 CONTACT PHONE: 410-382-7098 85' X 160' CUSTOVER CONTACT: JOHN CAPPELLETTI STRUCTURE DESCRIPTION: 85GB END WL 20X-C/(4)36"VNTS DRCOL+10" KICKBACK CONNECTION DETAILS



9138 S. STATE STREET, SUITE 101 (801) 990-1775 SANDY, UTAH 84070 (801) 990-1776 FAX

PROJECT NUMBER: U1362-351-162



6764428

7032939



DIMENSIONS FOR TELESCOPING PURLIN LOCATIONS ARE APPROXIMATE. LOCATIONS CAN BE FIELD ADJUSTED +/- 12" FROM WHAT IS SHOWN. FOUNDATION ELEMENTS ARE NOT SHOWN. COLUMN CENTER BASE CENTER TO 12'-4" E (A1/B1) PB (A2/B1) I 8'-6" PB (A1/B2) (A1/B2) 13'-6" PB PB コ 12'-0" 8) (B) (A3/B2) (A3/B2) 16.4" PB PB (B) (B) E (A1/B2) (A1/B2) 13'-6" PB. PB. [M1] ......COVER SHEET/PART LOCATIONS/LAYOUT [M2] ......CONNECTION DETAILS (A2/B1) 82-61 PB:  $\Xi$ MAXIMUM MAXIMUM HORIZONTAL {0.6 \* C&C} 12'-4"

-BASE CENTER TOCOLUMN CENTER CT MAXIMUM NET UPLIFT ASD ENDWALL COLUMN REACTIONS MAXIMUM GRAVITY  $\Xi$ HORIZONTAL {0.6 \* MWFRS} 6150 LBS 4710 LBS 330 LBS 880 LBS DEPARTMENT OF PUBLIC WORKS STRUCTURE SKU #: EW085GBF0480D 6764428 0 410-382-7098 85' X 160' 9138 S. STATE STREET, SUITE 101 (801) 990-1775 SANDY, UTAH 84070 (BD1) 990-1776 FAX SHEET TITLE COVER SHEET/PART LOCATIONS/LAYOUT STRUCTURE DESCRIPTION: 85GB SOLID END WL

NOTES:

FRAMING FOR WALK DOORS, VENTS, AND ADDITIONAL FRAMING, IF REQUIRED, WILL BE CUT IN FIELD USING 2" X 3" RECTANGULAR TUBING & 107923 OR 110356ALT/110356BALT INSERTS.

ALL DIMENSIONS ARE FROM CENTER TO CENTER UNLESS OTHERWISE NOTED.

FRAME-OUT SCHEDULE

CALL-OUT

8

3'-0" X 3'-0" LOUVER

DESCRIPTION

ROUGH OPENING VERIFY

ENDWALL CONTENT GUIDE:

EW085GBF0480D 85GB SOLID END WL

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4" X 4", 8 GA, 3-PLY SQUARE TUBE

C1: EWC2P220G08 C2: EWC2P300G08

C3: EWC3P397G08

2.375" OD, 14 GA ROUND PIPE

BOTTOM COLUMN INSERTS
(3.5" SQ. TUBE / 3/8" STEEL PLATE)

F1: 111700

LICENSES & PERMITS DIVISION

SHEET:

87813348

3

JUL 26

2016

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DRAWN BY:

OREATION DATE 2/17/2016
SIONS:
REVISION DATE:
6/24/2016

9250 BENDIX RD COLUMBIA, MD 21045-1832

CUSTOMER CONTACT: JOHN CAPPELLETTI

A2: 200TP036 A3: 200TP078 A1: 200TP050

B1: 2375TP085 B2: 2375TP138

2.0" OD, 11 GA ROUND PIPE TELESCOPING PURLINS

TOP COLUMN INSERTS (3.5" SQ. TUBE / 3/16" STEEL PLATE)

PURLIN BRACKET (1/8" STEEL PLATE)

PB: 106755

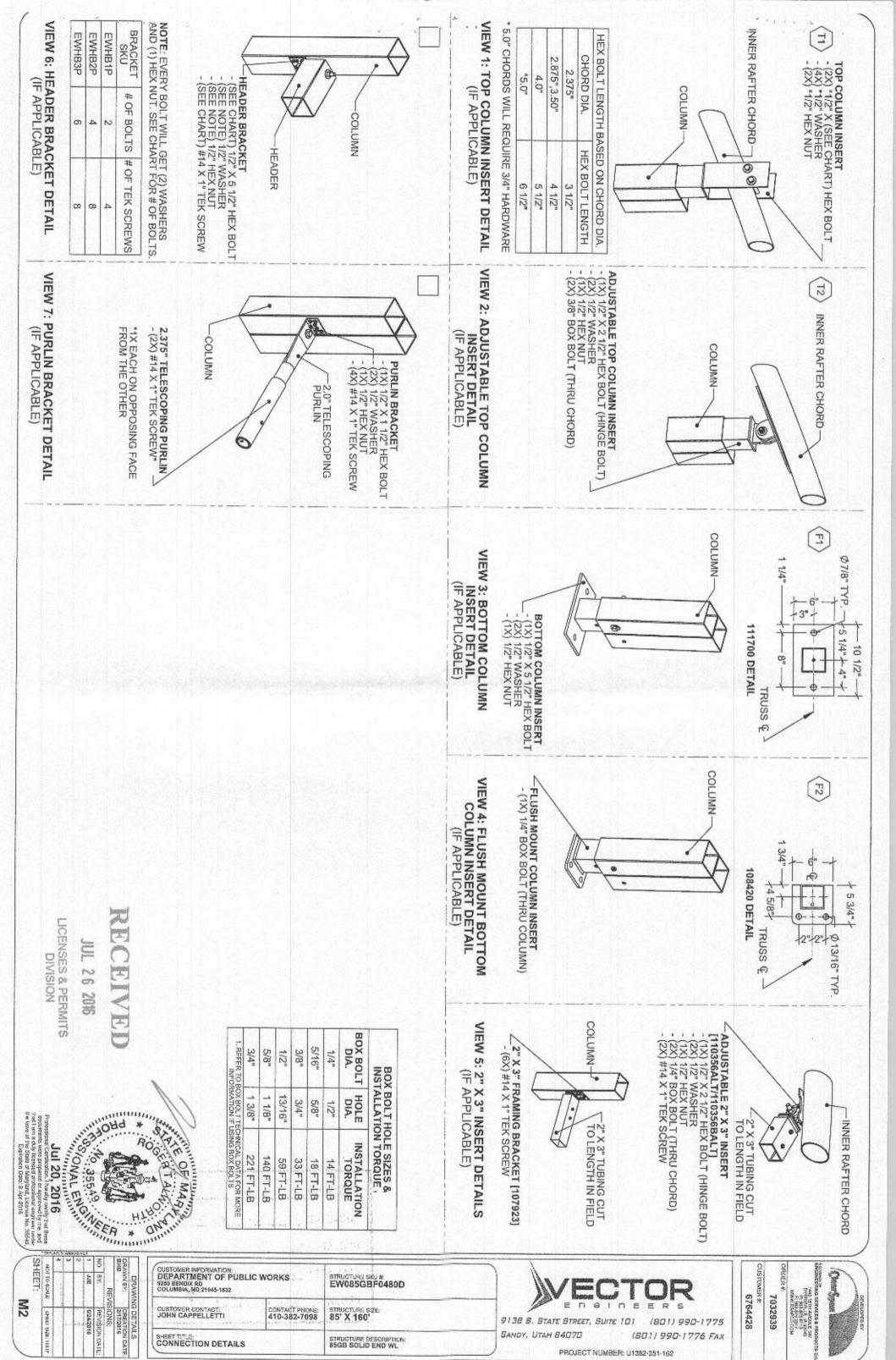
BRACKETS

T1: 106757

INSERTS

COLUMNS

4" X 4", 8 GA, 2-PLY SQUARE TUBE



PROJECT NUMBER: U1382-351-162

(SALT DOME)

COMM.

NEW

PROJECT HOCO HIGHWAYS

LOCATION: 4301 RT 32
SERIAL #: B/G032/4 DATE: 7/24/16
CONTACT: DAN BENNETT

PHONE #: 410. 313. 4235