

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.



CORPORATE HEADQUARTERS
8505-A CHANCELLOR ROW
DALLAS, TX, 75247
800-966-5005

CERTIFICATIONS:
IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER
CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:
AUTONATION INC.

PROJECT NAME:
HYUNDAI N. RICHLAND HILLS

LOCATION:
NORTH RICHLAND HILLS TX

PROJECT NUMBER:
63012

STRUCTURE TYPE:
HERITAGE CANTILEVERS & DIAMOND PROTECTORS

SIZE:
VARIOUS

SCALE : ENGINEERING

DRAWING SIZE: D

NC	REV	DESCRIPTION	10/19/18	SA	SA	SA	ENG
			DATE	DRW	CHK	ENG	
		RELEASE FOR FABRICATION					

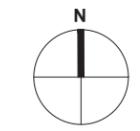
Eng. By : SA 10/19/18
Design By : SA 10/19/18
Approved By : SA 10/19/18

DRAWING DESCRIPTION:
SITE PLAN

DWG. **63012-1.15**

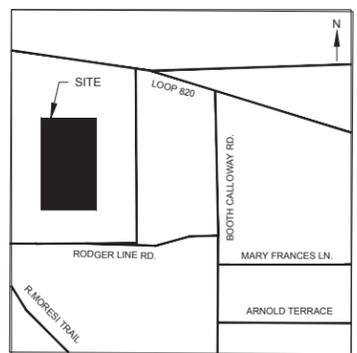
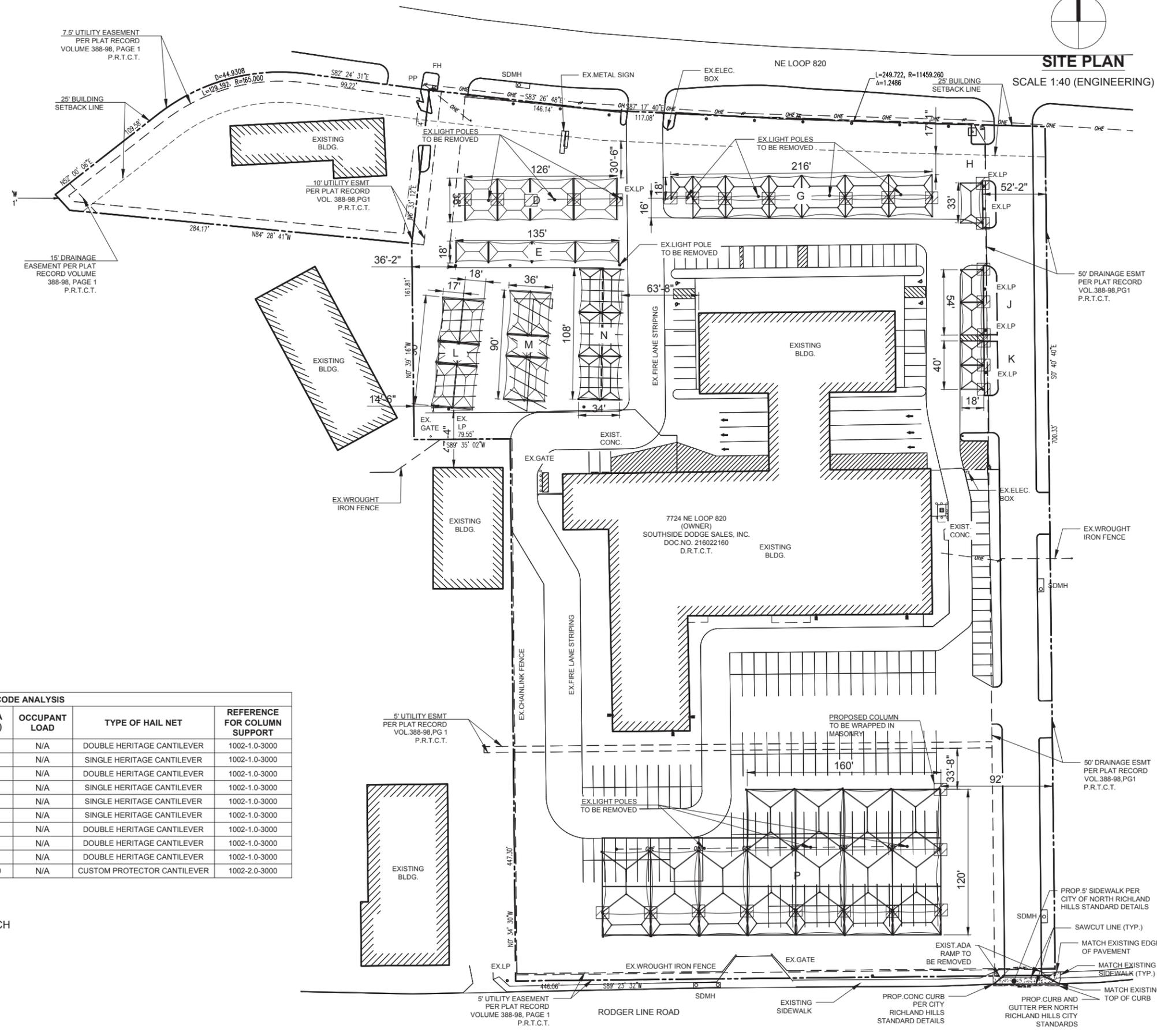
PAGE **4000**

REV. **NC**



SITE PLAN

SCALE 1:40 (ENGINEERING)



VICINITY MAP
N.T.S.

ADDRESS:
7724 NE LOOP 820
NORTH RICHLAND HILLS, TX 76180

☐ COLUMNS TO BE WRAPPED

CODE ANALYSIS						
BUILDING	OCCUPANCY	CONSTRUCTION TYPE	AREA (SQF)	OCCUPANT LOAD	TYPE OF HAIL NET	REFERENCE FOR COLUMN SUPPORT
D	S2	2-B	4536	N/A	DOUBLE HERITAGE CANTILEVER	1002-1.0-3000
E	S2	2-B	2430	N/A	SINGLE HERITAGE CANTILEVER	1002-1.0-3000
G	S2	2-B	6750	N/A	DOUBLE HERITAGE CANTILEVER	1002-1.0-3000
H	S2	2-B	594	N/A	SINGLE HERITAGE CANTILEVER	1002-1.0-3000
J	S2	2-B	918	N/A	SINGLE HERITAGE CANTILEVER	1002-1.0-3000
K	S2	2-B	713	N/A	SINGLE HERITAGE CANTILEVER	1002-1.0-3000
L	S2	2-B	3150	N/A	DOUBLE HERITAGE CANTILEVER	1002-1.0-3000
M	S2	2-B	3240	N/A	DOUBLE HERITAGE CANTILEVER	1002-1.0-3000
N	S2	2-B	3780	N/A	DOUBLE HERITAGE CANTILEVER	1002-1.0-3000
P	S2	2-B	27600	N/A	CUSTOM PROTECTOR CANTILEVER	1002-2.0-3000

GENERAL NOTE:
1. LIGHT POLES SHALL BE PAINTED TO MATCH THE CDJR DEALERSHIP. THE PAINT COLOR SHALL BE GREY.

CASE SUP 2018-10

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CLARK COUNTY MANUFACTURER
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AUTONATION INC.
PROJECT NAME:
HYUNDAI N.RICHLAND HILLS
LOCATION:
NORTH RICHLAND HILLS, TX
PROJECT NUMBER:
63012

STRUCTURE TYPE:
HERITAGE CANTILEVERS & DIAMOND PROTECTORS
SIZE:
VARIOUS

SCALE : AS NOTED

DRAWING SIZE: **B**

NC	REV	10/19/18	SA	DRW	CHK	ENG
RELEASE FOR FABRICATION		DATE	DATE	DATE	DATE	DATE
DESCRIPTION						

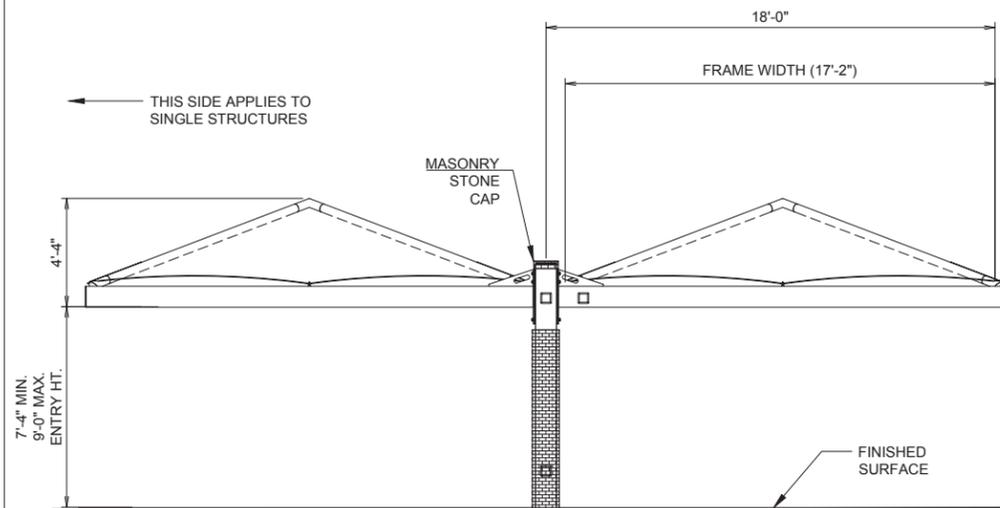
Eng. By : JO 10/19/18
Design By : SA 10/19/18
Approved By : JO 10/19/18

DRAWING DESCRIPTION:
PERIMETER CLADDIED ELEVATIONS

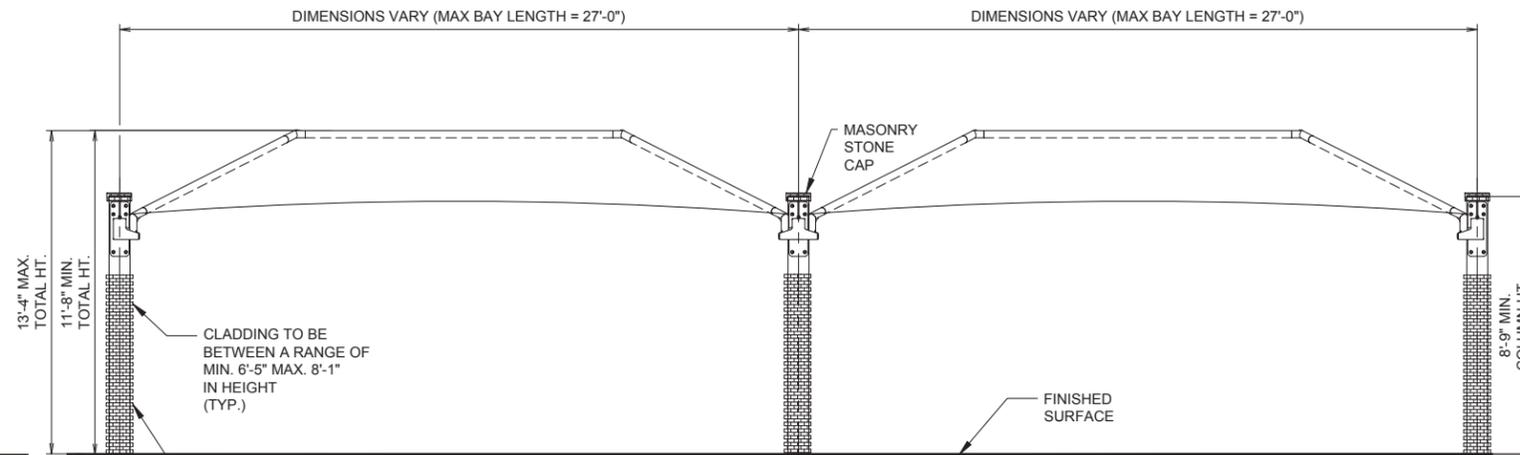
DWG. **63012-1.0**

PAGE **5000**

REV. **NC**



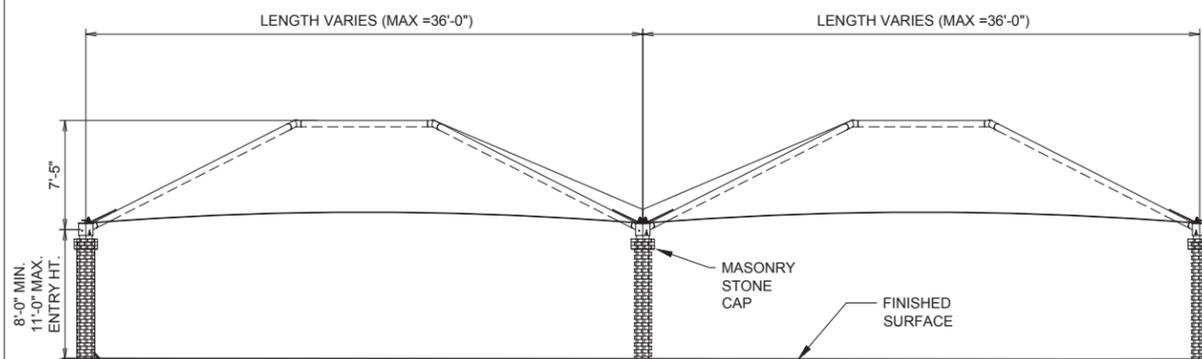
SIDE ELEVATION
(1 BAY SAMPLE, TYP.)
SEE SITE LAYOUT FOR BAY DISTRIBUTION
APPLIES TO SINGLE & DOUBLE HERITAGE CANTILEVERS



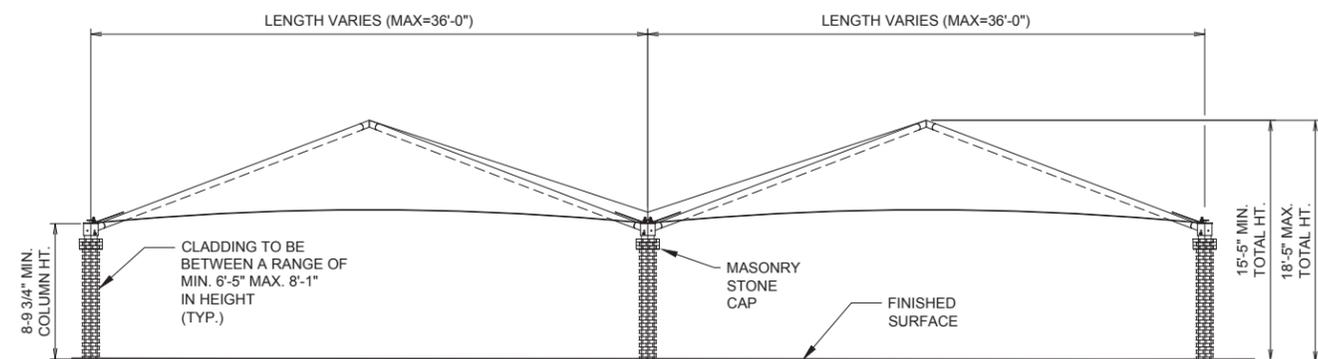
FRONT ELEVATION
(2 BAY SAMPLE, TYP.)
SEE SITE LAYOUT FOR BAY DISTRIBUTION
APPLIES TO SINGLE & DOUBLE HERITAGE CANTILEVERS

ELEVATIONS
HERITAGE CANTILEVERS

NOTE:
HEIGHT OF CLADDING OF EACH COLUMN WILL VARY DEPENDING ON THE ELEVATIONS AT EACH LOCATION



SIDE ELEVATION
(2 BAY SAMPLE, TYP.)
SEE SITE LAYOUT FOR BAY DISTRIBUTION



FRONT ELEVATION
(2 BAY SAMPLE, TYP.)
SEE SITE LAYOUT FOR BAY DISTRIBUTION

ELEVATIONS
DIAMOND PROTECTORS

GENERAL NOTES

DESIGN LOADS

BUILDING CODE	IBC 2012
LIVE LOADS	5 PSF
SNOW LOAD	5 PSF
WIND LOADS	115 MPH ¹
	3-Sec. Gust, RISK CATEGORY II & EXPOSURE C

1.- 115 MPH ACCORDING THE ULTIMATE WIND SPEED MAPS OF ASCE 7-10 IS EQUIVALENT TO THE NOMINAL WIND SPEED OF 90 MPH ACCORDING ASCE 7-05 AND IBC 2012 EQ 16-32.

STRUCTURAL STEEL

1.- ALL STRUCTURAL SHAPES SHALL BE COLD FORMED HSS ASTM A500 GRADE C, UNLESS OTHERWISE NOTED, TYPICAL MECHANICAL PROPERTIES FOR HSS PRODUCTS:
 SQUARE AND RECTANGULAR 50,000 PSI YIELD / 62,000 PSI TENSILE
 ROUND PIPE 46,000 PSI YIELD / 62,000 PSI TENSILE

2.- ALL GALVANIZED STEEL TUBE PRODUCTS ARE MANUFACTURED PER ASTM A500, TYPICAL MECHANICAL PROPERTIES ACHIEVED FOR GALVANIZED TUBE PRODUCTS:
 ROUND TUBE 45,000 PSI YIELD / 48,000 PSI TENSILE

3.- ALL PLATES SHALL COMPLY WITH ASTM A572 GRADE 50.

4.- ALL STEEL TUBING SHALL BE TRIPLE COATED FOR RUST PROTECTION USING THE IN-LINE ELECTROPLATING COAT PROCESS. TUBING SHALL BE INTERNALLY COATED WITH ZINC AND ORGANIC COATINGS TO PREVENT CORROSION AS MANUFACTURED BY ALLIED TUBE & CONDUIT.

5.- STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH A.I.S.C. SPECIFICATIONS.

6.- ALL SHOP WELDS SHALL BE EXECUTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY (AWS) D1.1 SPECIFICATIONS. ALL WELDS SHALL BE CONTINUOUS WHERE LENGTH IS NOT GIVEN, UNLESS OTHERWISE SHOWN OR NOTED ON DRAWINGS. ALL WELDS SHALL DEVELOP THE FULL STRENGTH OF THE WEAKER MEMBER. ALL WELDS SHALL BE MADE USING E70XX .045 WIRE.

7.- SHOP CONNECTIONS SHALL BE WELDED UNLESS NOTED OTHERWISE. FIELD CONNECTIONS SHALL BE AS INDICATED ON THE DRAWINGS (IF REQUIRED). ALL FILLET WELDS SHALL BE A MINIMUM OF 3/16" UNLESS OTHERWISE NOTED. FIELD WELDS SHALL NOT BE ALLOWED.

8.- ALL HIGH STRENGTH BOLTS SHALL COMPLY WITH ASTM A325 TYPE 1 OR A490 TYPE 1. ALL NUTS SHALL COMPLY WITH ASTM A563DH, AND WASHERS SHALL COMPLY WITH ASTM F436.

9.- ALL HIGH STRENGTH BOLTS SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION.

10.- ALL STAINLESS STEEL BOLTS / STUDS SHALL COMPLY WITH ASTM F-593, ALLOY GROUP 1 OR 2 ALL NUTS SHALL COMPLY WITH ASTM F-594 ALLOY GROUP 1 OR 2.

11.- ALL STRUCTURAL STEEL SHALL BE PAINTED WITH ONE SHOP COAT (2.5 TO 3.5 MILS THICK MIN). THIS COAT IS A WEATHER RESISTANT POWDER COATING BASED ON POLYESTER TGIC (MANUFACTURED BY SHERWIN WILLIAMS OR TIGER DRYLAC). TO ACHIEVE OPTIMUM ADHESION, IT IS RECOMMENDED THAT THE PROPER TREATMENT AND DRYING TAKE PLACE BEFORE COATING. POLYESTER POWDER (TGIC) SPECIFICATIONS SHALL BE AS FOLLOWS:

- PENCIL HARDNESS (ASTM D-3363)
- HUMIDITY (ASTM D-2247)
- SOLVENT RESISTANCE (PCI METHOD) - 50 DBL RUBS SL. SOFTNES

FABRIC SPECIFICATION

1.- FABRIC SHALL BE A HIGH DENSITY POLYETHYLENE WITH ULTRA VIOLET ADDITIVES, WITH MONOFILAMENT AND TAPE CONSTRUCTION GIVING A STABLE MATERIAL AND RACHEL KNITTED TO ENSURE MATERIAL WILL NOT UNRAVEL IF CUT.

2.- FABRIC SPECIFICATIONS: **SOLID COLORS** **STRIPE COLORS**
 - FADING MINIMUM FADING AFTER 5 YEARS
 - LIFE EXPECTANCY A MINIMUM OF 8 YEARS CONTINUOUS EXPOSURE TO THE SUN

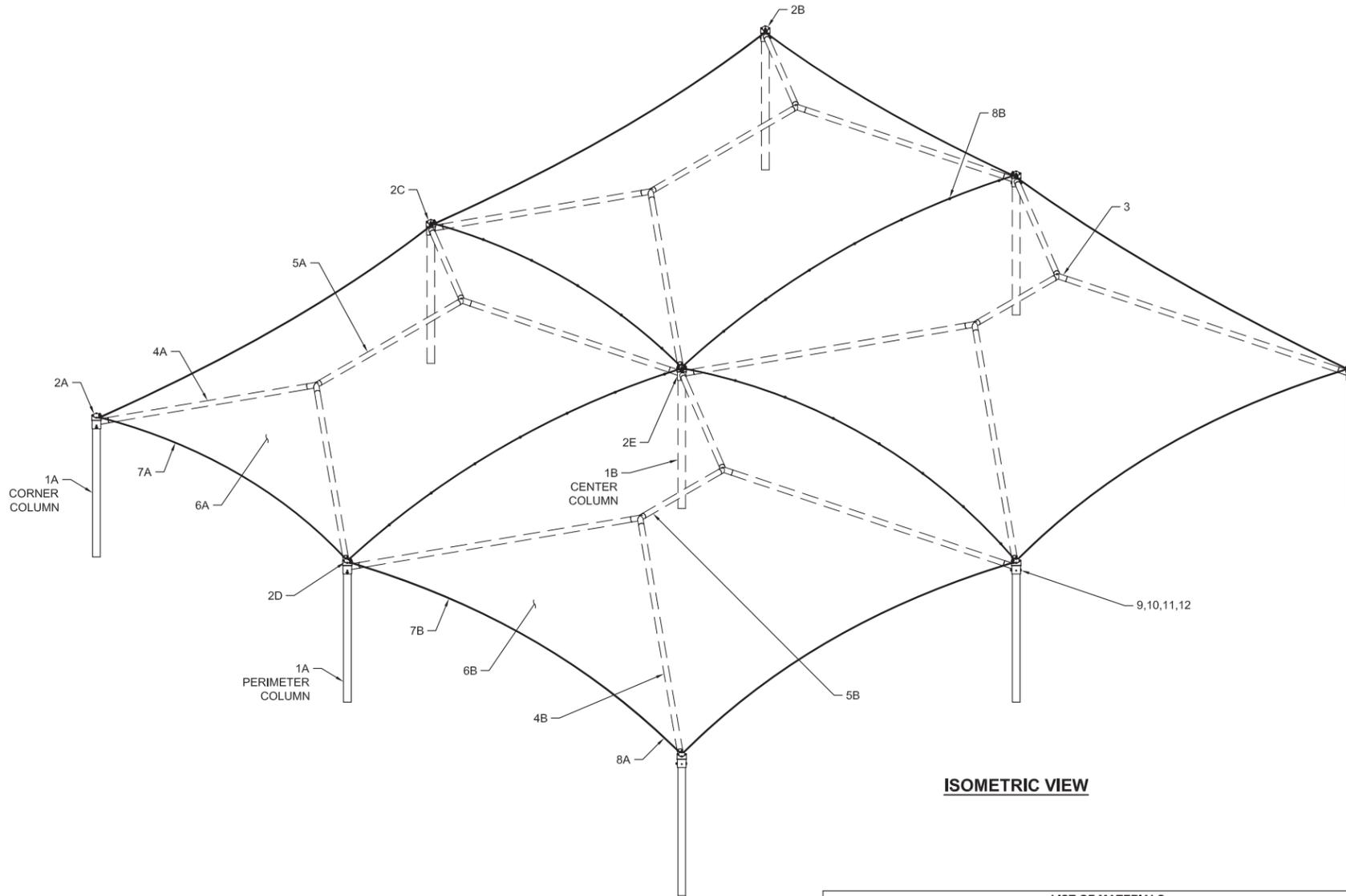
3.- FIRE TEST ON FABRIC: NFPA 701 TEST 2 AND ASTM E 84

4.- THREAD-PTFE (TEFLON) USED MEET THE FOLLOWING SPECIFICATIONS: HIGH STRENGTH, LOW SHRINKAGE, WIDE TEMPERATURE RANGE, FLEX & ABRASION RESISTANT AND UV RADIATION IMMUNITY. LOCKSTITCH - 1200 DENIER. CHAINSTITCH THREAD - 2400 DENIER.

AIRCRAFT CABLE

1.- WIRE ROPE CABLE SHALL BE 7x19 STRAND CORE GALVANIZED WIRE ROPE WITH A BREAKING STRENGTH VALUE OF 14,400 LBS (3/8" DIAMETER).

2.- CABLES SHALL BE FED THROUGH THE FABRIC SLEEVES AROUND THE PERIMETER OF THE CANOPY AND TENSIONED UNTIL THE FABRIC PANELS (DESIGNED PURPOSELY UNDERSIZED) REACH A TAUNT APPEARANCE. ANY LONG TERM CABLE SAG SHALL BE MINIMIZED DURING THE MAINTENANCE RE-TIGHTENING VISITS AS REQUIRED.



ISOMETRIC VIEW

LIST OF MATERIALS

ITEM	QTY.	DESCRIPTION	MATERIAL / DWG	SMI PART NO.
1A	TBD	COLUMN CORNER & PERIMETER	HSS 7 x 7 x 0.375	N/A
1B	TBD	COLUMN CENTER	HSS 7 x 7 x 0.250	N/A
2A	TBD	CROWN SINGLE RIGHT	HSS 8 x 8 x 0.375	N/A
2B	TBD	CROWN SINGLE LEFT	HSS 8 x 8 x 0.375	N/A
2C	TBD	CROWN DOUBLE LONG SIDE	HSS 8 x 8 x 0.375	N/A
2D	TBD	CROWN DOUBLE SHORT SIDE	HSS 8 x 8 x 0.375	N/A
2E	TBD	CROWN CENTER	HSS 8 x 8 x 0.375	N/A
3	TBD	CROSSPIECE	5.0 GA. 7 RD. TUBE	N/A
4A	TBD	EXTENSION	5.0 GA. 7 RD. TUBE	LENGTH VARIES
4B	TBD	EXTENSION	5.0 GA. 7 RD. TUBE	LENGTH VARIES
5A	TBD	RIDGE	5.0 GA. 7 RD. TUBE	LENGTH VARIES
5B	TBD	RIDGE	5.0 GA. 7 RD. TUBE	LENGTH VARIES
6A	TBD	FABRIC TOP (CUSTOM)	EXTREME 32	LENGTH VARIES
6B	TBD	FABRIC TOP (CUSTOM)	EXTREME 32	LENGTH VARIES
7A	TBD	3/8" STEEL CABLE	GALVANIZED CABLE	LENGTH VARIES
7B	TBD	3/8" STEEL CABLE	GALVANIZED CABLE	LENGTH VARIES
8A	TBD	Ø3/8" CABLE CLAMP	GALVANIZED	307629
8B	TBD	Ø1/2" CABLE CLAMP	GALVANIZED	307627
9	TBD	Ø3/4"-10NC x 9 1/2" HEX BOLT	ASTM A325 GALVANIZED	308328
10	TBD	Ø3/4"-10NC HEX NUT	ASTM A563 GALVANIZED	307687
11	TBD	Ø3/4" SPLIT LOCK WASHER	ASTM F436 GALVANIZED	307832
12	TBD	Ø3/4" FLAT WASHER	ASTM F436 GALVANIZED	307624

CODE ANALYSIS

BUILDING	OCCUPANCY	CONSTRUCTION TYPE	AREA (SQF)	OCCUPANT LOAD
SHADE STRUCTURE	U	V-B	TBD	N/A
DIAMOND PROTECTORS				

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IAS CERTIFICATION No: FA-428
 CLARK COUNTY MANUFACTURER
 CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:

AUTONATION INC.

PROJECT NAME:

**HYUNDAI
 N. RICHLAND HILLS**

LOCATION:

**NORTH RICHLAND HILLS
 TX**

PROJECT NUMBER:

1002

STRUCTURE TYPE:

**DIAMOND PROTECTORS
 (FULL CUSTOM)**

SIZE:

VARIES

SCALE : AS NOTED

DRAWING SIZE:

B

DATE	DRW	CHK	ENG
05/26/17	AK	JO	JO

DESCRIPTION	REV
RELEASE FOR CONSTRUCTION	NC

Eng. By :	AK	05/26/17
Design By :	SA	05/26/17
Approved By :	SA	05/26/17

DRAWING DESCRIPTION:

NOTES / LOM

DWG. **1002-2.0**

PAGE **1000**

REV. **NC**

CASE SUP 2018-10

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N. RICHLAND HILLS**
LOCATION:
**NORTH RICHLAND HILLS
TX**
PROJECT NUMBER:
1002

STRUCTURE TYPE:
**DIAMOND PROTECTORS
(FULL CUSTOM)**

SIZE:
VARIES
SCALE: AS NOTED

DRAWING SIZE:
B

REV	DATE	DRW	CHK	ENG
05/26/17				
NC				

Eng. By : AK 05/26/17
Design By : SA 05/26/17
Approved By : SA 05/26/17

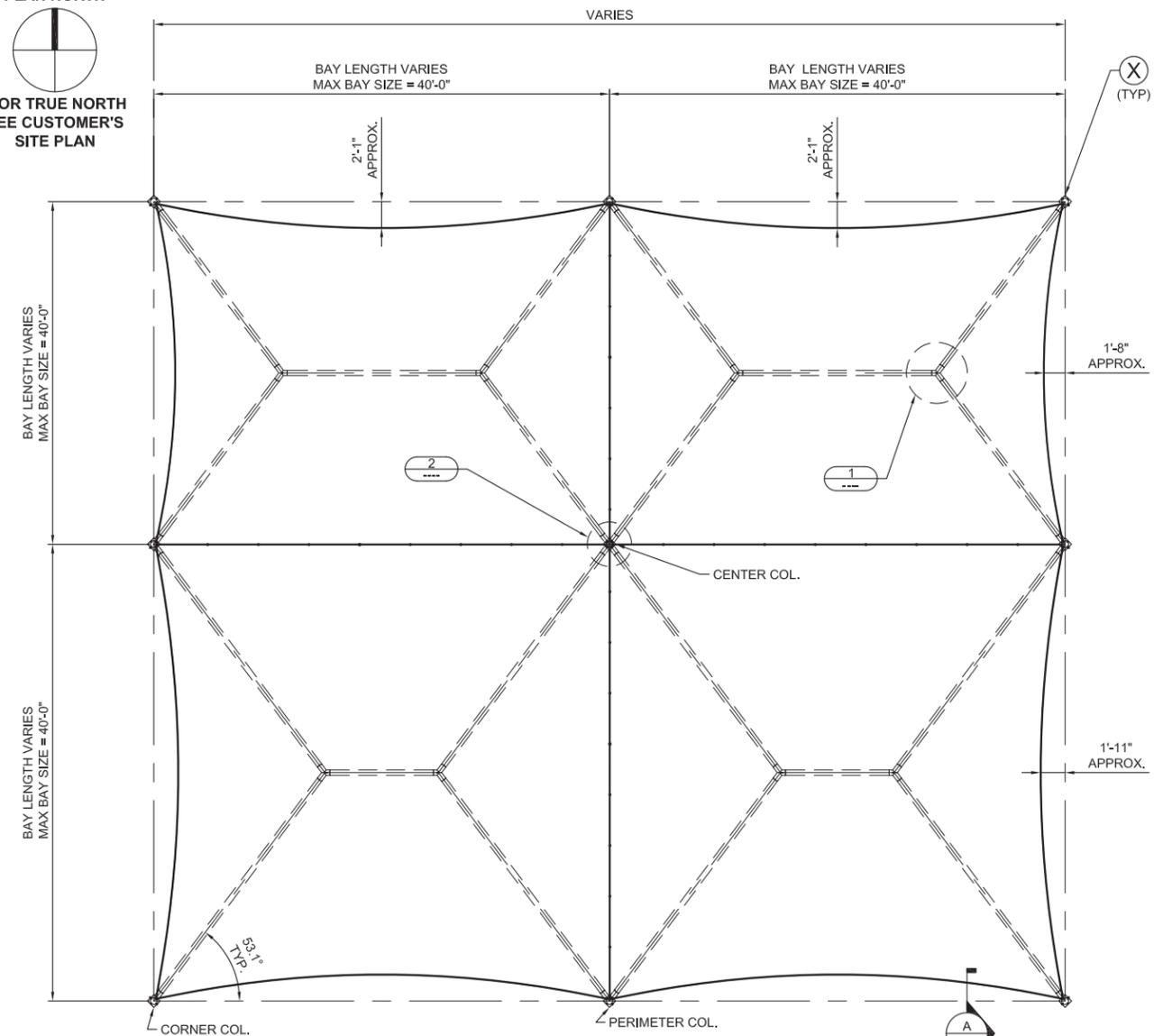
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REV.	NC	

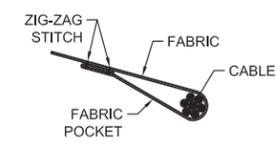
PLAN NORTH



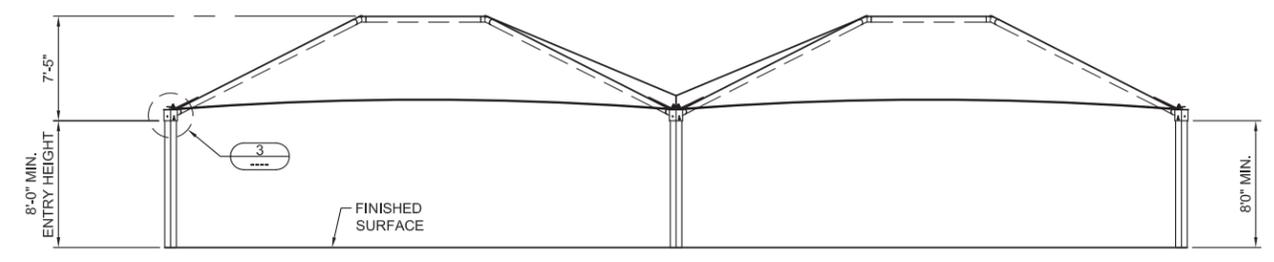
FOR TRUE NORTH
SEE CUSTOMER'S
SITE PLAN



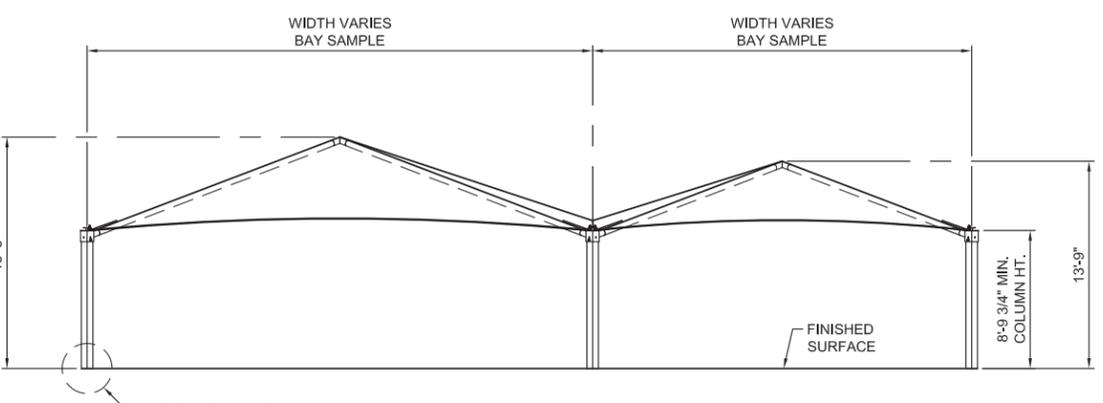
TOP VIEW



SECTION A-A

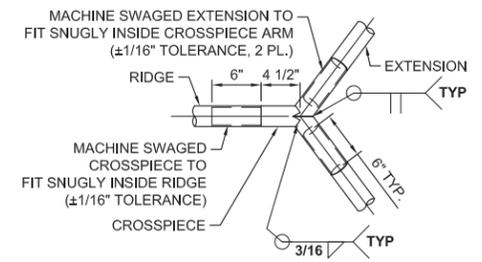


FRONT ELEVATION

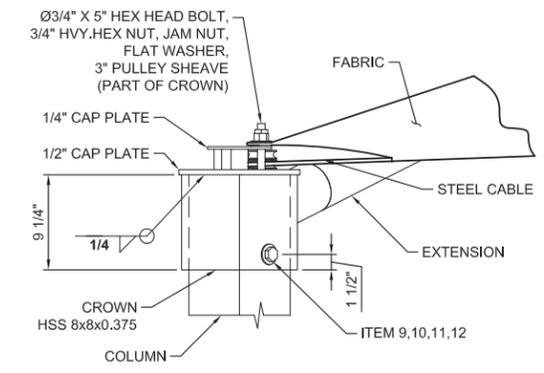


SIDE ELEVATION

FOR FOOTING AND
MOUNTING DETAILS
REFER TO PAGE 3000

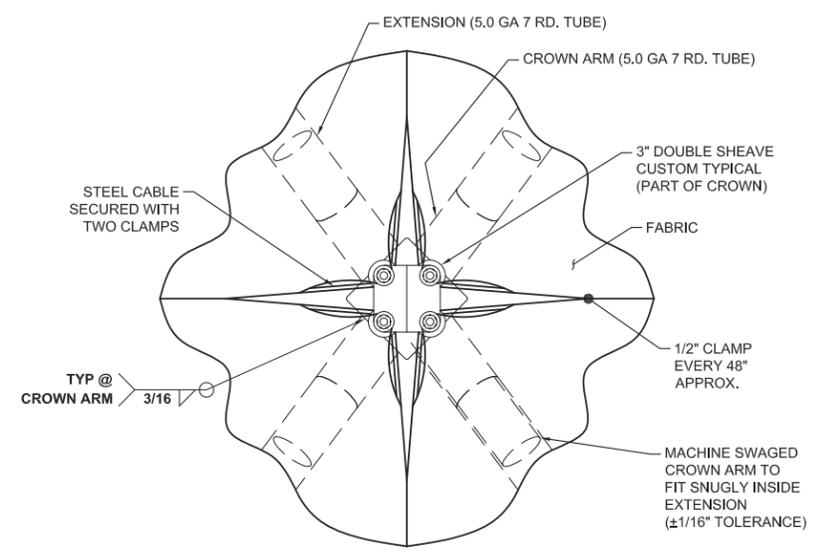


DETAIL 1



DETAIL 3

TYPICAL FABRIC CONNECTION
TYP. PERIMETER CROWNS



DETAIL 2

FABRIC CONNECTION TYPICAL
FOR ALL CENTER CROWNS

GENERAL NOTES

DESIGN LOADS

BUILDING CODE	IBC 2012
LIVE LOADS	5 PSF
SNOW LOAD	5 PSF
WIND LOADS	115 MPH ¹
	3-Sec. Gust, RISK CATEGORY II & EXPOSURE C

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STRUCTURAL STEEL

1.- ALL STRUCTURAL SHAPES SHALL BE COLD FORMED HSS ASTM A500 GRADE C, UNLESS OTHERWISE NOTED, TYPICAL MECHANICAL PROPERTIES FOR HSS PRODUCTS:
 SQUARE AND RECTANGULAR 50,000 PSI YIELD / 62,000 PSI TENSILE
 ROUND PIPE 46,000 PSI YIELD / 62,000 PSI TENSILE

2.- ALL GALVANIZED STEEL TUBE PRODUCTS ARE MANUFACTURED PER ASTM A500, TYPICAL MECHANICAL PROPERTIES ACHIEVED FOR GALVANIZED TUBE PRODUCTS:
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3.- ALL PLATES SHALL COMPLY WITH ASTM A572 GRADE 50.

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8.- ALL HIGH STRENGTH BOLTS SHALL COMPLY WITH ASTM A325 TYPE 1 OR A490 TYPE 1. ALL NUTS SHALL COMPLY WITH ASTM A563DH, AND WASHERS SHALL COMPLY WITH ASTM F436.

9.- ALL HIGH STRENGTH BOLTS SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION.

10.- ALL STAINLESS STEEL BOLTS SHALL COMPLY WITH ASTM F-593, ALLOY GROUP 1 OR 2 ALL NUTS SHALL COMPLY WITH ASTM F-594 ALLOY GROUP 1 OR 2.

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- PENCIL HARDNESS (ASTM D-3363)
- HUMIDITY (ASTM D-2247)
- SOLVENT RESISTANCE (PCI METHOD) - 50 DBL RUBS SL. SOFTNES

FABRIC SPECIFICATION

1.- FABRIC SHALL BE A HIGH DENSITY POLYETHYLENE WITH ULTRA VIOLET ADDITIVES, WITH MONOFILAMENT AND TAPE CONSTRUCTION GIVING A STABLE MATERIAL AND RACHEL KNITTED TO ENSURE MATERIAL WILL NOT UNRAVEL IF CUT.

2.- FABRIC SPECIFICATIONS: SOLID COLORS STRIPE COLORS
 - FADING MINIMUM FADING AFTER 5 YEARS
 - LIFE EXPECTANCY A MINIMUM OF 8 YEARS CONTINUOUS EXPOSURE TO THE SUN

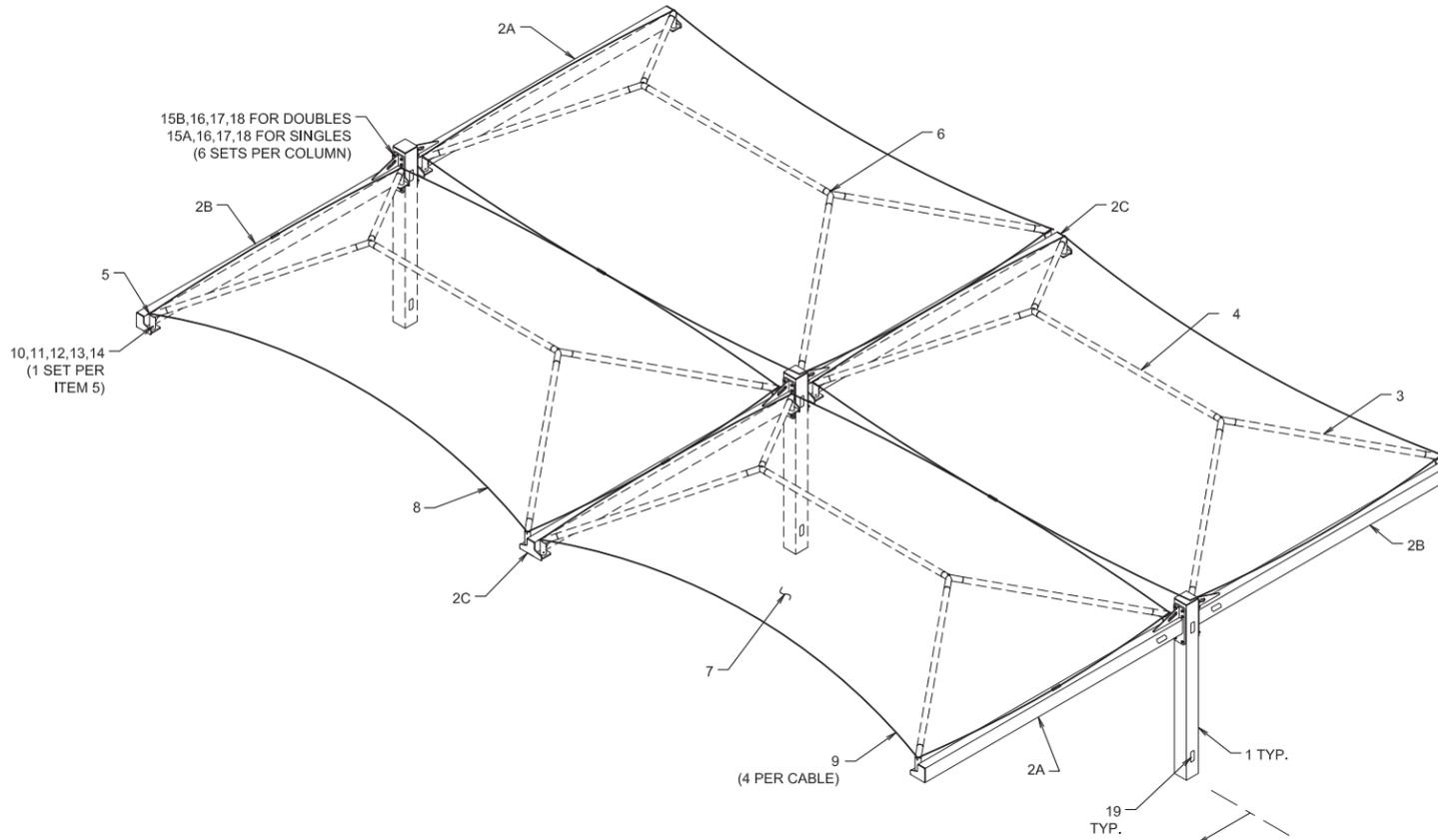
3.- FIRE TEST ON FABRIC: NFPA 701 TEST 2 AND ASTM E 84

4.- THREAD-PTFE (TEFLON) USED MEET THE FOLLOWING SPECIFICATIONS: HIGH STRENGTH, LOW SHRINKAGE, WIDE TEMPERATURE RANGE, FLEX & ABRASION RESISTANT AND UV RADIATION IMMUNITY. LOCKSTITCH - 1200 DENIER. CHAINSTITCH THREAD - 2400 DENIER.

AIRCRAFT CABLE

1.- WIRE ROPE CABLE SHALL BE 7x19 STRAND CORE GALVANIZED WIRE ROPE WITH A BREAKING STRENGTH VALUE OF 14,400 LBS (3/8" DIAMETER).

2.- CABLES SHALL BE FED THROUGH THE FABRIC SLEEVES AROUND THE PERIMETER OF THE CANOPY AND TENSIONED UNTIL THE FABRIC PANELS (DESIGNED PURPOSELY UNDERSIZED) REACH A TAUNT APPEARANCE. ANY LONG TERM CABLE SAG SHALL BE MINIMIZED DURING THE MAINTENANCE RE-TIGHTENING VISITS AS REQUIRED.



ISOMETRIC VIEW

THIS SIDE APPLIES FOR SINGLE STRUCTURES ONLY

LIST OF MATERIALS (PROJECT TOTALS)

ITEM	QTY.	DESCRIPTION	MATERIAL / DWG.	SMI PART No.
1	TBD	COLUMN (ELECTRICAL)	HSS 10.0 x 10.0 x 0.375	N/A
2A	TBD	RIGHT CANTILEVER BEAM (ELECTRICAL)	HSS 10.0 x 6.00 x 0.375	N/A
2B	TBD	LEFT CANTILEVER BEAM (ELECTRICAL)	HSS 10.0 x 6.00 x 0.375	N/A
2C	TBD	CENTER CANTILEVER BEAM (ELECTRICAL)	HSS 10.0 x 6.00 x 0.375	N/A
3	TBD	EXTENSION	4.0 GA 8 RD. TUBING	N/A
4	TBD	RIDGE (ELECTRICAL)	4.0 GA 8 RD. TUBING	N/A
5	TBD	RAFTER	4.0 GA 8 RD. TUBING	N/A
6	TBD	CROSSPIECE (ELECTRICAL)	4.0 GA 8 RD. TUBING	N/A
7	TBD	FABRIC TOP CANT	EXTREME 32	AREA & WEIGHT VARIES
8	TBD	3/8" STEEL CABLE	GALVANIZED	LENGTH VARIES
9	TBD	3/8" CABLE CLAMP	GALVANIZED	307629
10	TBD	Ø1/2"-13NC x 5" HEX BOLT	18-8 SS	307980
11	TBD	Ø1/2"-13NC HEX NUT	18-8 SS	307621
12	TBD	Ø1/2" FLAT WASHER	18-8 SS	307645
13	TBD	Ø1/2" FLAT WASHER	DELFIN (ACETAL)	308083
14	TBD	Ø1/2" SPLIT LOCK WASHER	18-8 SS	117028
15A	TBD	Ø3/4"-10NC x 13" HEX BOLT	ASTM A325 GALVANIZED	307984
15B	TBD	Ø3/4"-10NC x 14" HEX BOLT	ASTM A325 GALVANIZED	307985
16	TBD	Ø3/4"-10NC HEX NUT	ASTM A563 GALVANIZED	307687
17	TBD	Ø3/4" SPLIT LOCK WASHER	ASTM F436 GALVANIZED	307832
18	TBD	Ø3/4" FLAT WASHER	ASTM F436 GALVANIZED	307624
19	TBD	HANDHOLE COVER KIT	5" x 5" HANDHOLE COVER KIT	HHCOV KIT-55
20	TBD	ANCHOR ROD SET 1-1/4" x 36"	F1554 GR55	307615

CODE ANALYSIS				
BUILDING	OCCUPANCY	CONSTRUCTION TYPE	AREA (SQF)	OCCUPANT LOAD
SHADE STRUCTURE TOTAL PROJECT	U	V-B	TBD	N/A

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.



CORPORATE HEADQUARTERS
 8505-A CHANCELLOR ROW
 DALLAS, TX, 75247
 800-966-5005

CERTIFICATIONS:

IAS CERTIFICATION No: FA-428
 CLARK COUNTY MANUFACTURER
 CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:

AUTONATION INC.

PROJECT NAME:

**HYUNDAI
 N. RICHLAND HILLS**

LOCATION:

**NORTH RICHLAND HILLS
 TX**

PROJECT NUMBER:

1002

STRUCTURE TYPE:

**SINGLE & DOUBLE JOINED
 HERITAGE CANTILEVERS**

SIZE:

VARIOUS

SCALE : AS NOTED

DRAWING SIZE:

B

JO	ENG
JO	CHK
AK	DRW
05/26/17	DATE
NC	REV

Eng. By :	AK	05/26/17
Design By :	SA	05/26/17
Approved By :	SA	05/26/17

DRAWING DESCRIPTION:

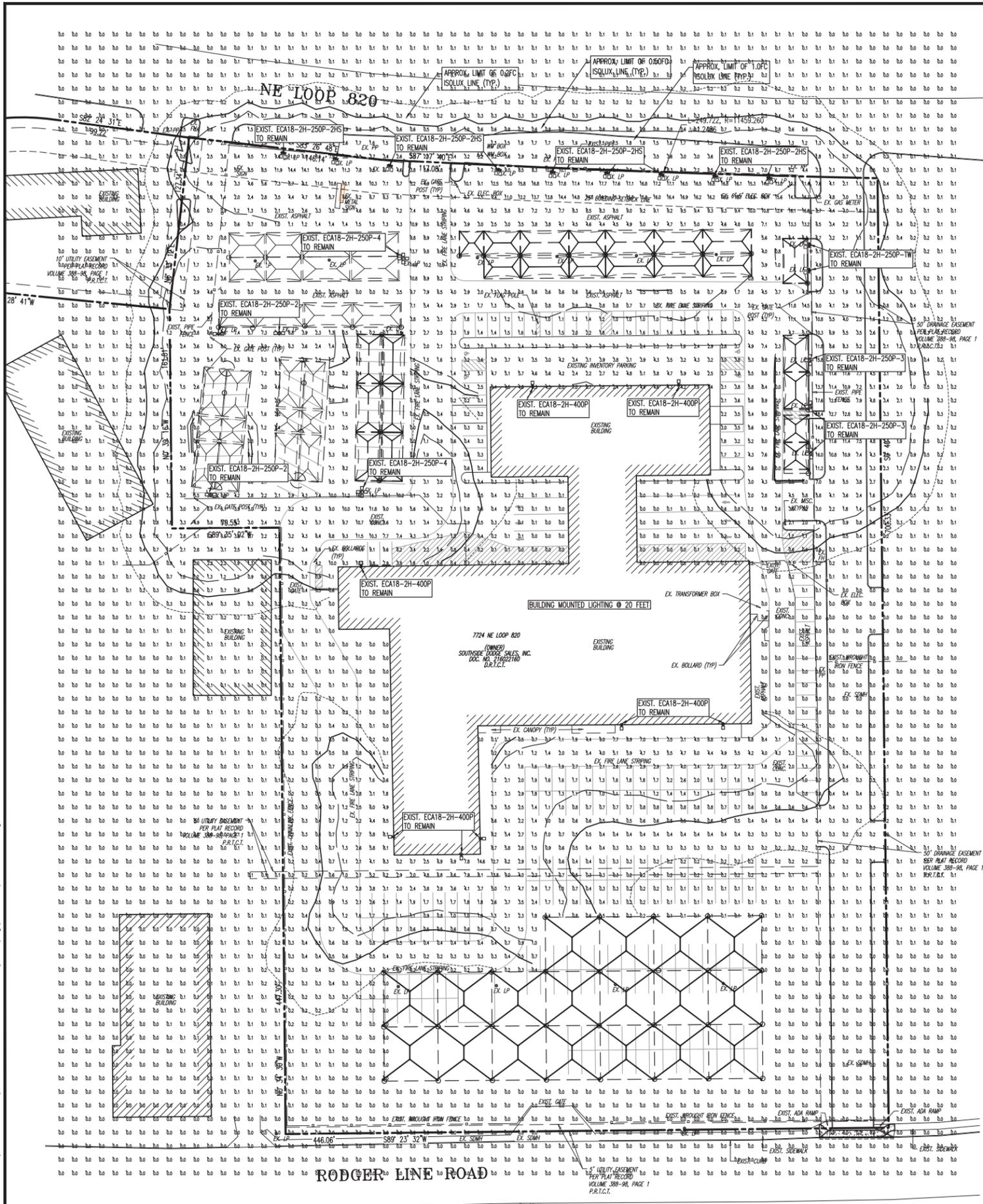
NOTES / LOM

DWG. **1002-1.0**

PAGE **1000**

REV. **NC**

CASE SUP 2018-10



GENERAL NOTES

1. THIS LIGHTING PLAN ILLUSTRATES ILLUMINATION LEVELS CALCULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA) APPROVED METHODS. ACTUAL SITE ILLUMINATION LEVELS AND PERFORMANCE OF LUMINAIRES MAY VARY DUE TO VARIATIONS IN WEATHER, ELECTRICAL VOLTAGE, TOLERANCE IN LUMPS, AND OTHER RELATED VARIABLE FIELD CONDITIONS.
2. ALL EXISTING CONDITIONS LIGHTING LEVELS ARE REPRESENTATIVE OF AN APPROXIMATION UTILIZING LABORATORY DATA FOR SIMILAR FIXTURES AND/OR ACTUAL FIELD MEASUREMENTS TAKEN WITH A LIGHT METER. DUE TO FACTORS SUCH AS FIXTURE MAINTENANCE, EQUIPMENT TOLERANCES, WEATHER CONDITIONS, ETC., ACTUAL LIGHTING LEVELS MAY DIFFER AND THE LIGHTING LEVELS DEPICTED ON THIS PLAN SHOULD BE CONSIDERED AS APPROXIMATE.
3. ALL WIRING METHODS AND EQUIPMENT CONSTRUCTION SHALL CONFORM TO THE CURRENT NATIONAL ELECTRICAL CODE.
4. ALL EXISTING LIGHTING CONDITIONS HAVE BEEN OBTAINED FROM SITE VISITS. LIGHTING LEVEL BENEATH HAIL NET STRUCTURES ARE NOT SHOWN.

EXISTING LUMINAIRE SCHEDULE

Symbol	Qty	Label	MOUNTING POLE HEIGHT	Arrangement	Total Lumens	LLF	Description	Filename
	8	ECA18-2H-400P	20 FT	SINGLE @ 45 DEGREE TILT	40000	1.000	Ecolume, 18inch Housing, Type II Horizontal Lamp, 400W PS	ECA18-2H-250P-IES
	9	ECA18-2H-250P-2HS	25 FT	TWIN FIXTURE HEADS	22000	1.000	Ecolume, 18inch Housing, Type II Horizontal Lamp, 250W PS Twin Fixture Heads with Shield	ECA18-2H-250P-HS-IES
	2	ECA18-2H-250P-TW	25 FT	TWIN FIXTURE HEADS	22000	1.000	Ecolume, 18inch Housing, Type II Horizontal Lamp, 250W PS Twin Fixture Heads	ECA18-2H-250P-IES
	3	ECA18-2H-250P-2	25 FT	BACK TO BACK	22000	1.000	Ecolume, 18inch Housing, Type II Horizontal Lamp, 250W PS Back to Back	ECA18-2H-250P-IES
	3	ECA18-2H-250P-3	25 FT	3 @ 90 DEGREES	22000	1.000	Ecolume, 18inch Housing, Type II Horizontal Lamp, 250W PS 3 @ 90 degrees	ECA18-2H-250P-IES
	2	ECA18-2H-250P-4	25 FT	4 @ 90 DEGREES	22000	1.000	Ecolume, 18inch Housing, Type II Horizontal Lamp, 250W PS 4 @ 90 degrees	ECA18-2H-250P-IES

CASE NO. SUP 2018-10

DYNAMIC ENGINEERING
 (dba) MIDWEST DYNAMIC ENGINEERING CONSULTANTS, PC
 LAND DEVELOPMENT CONSULTING • PERMITTING • GEOTECHNICAL • ENVIRONMENTAL • SURVEY • PLANNING & DESIGN

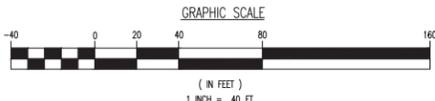
1401 Elm City Road, Suite 200, Houston, TX 77079 | T: 281.789.6400 | F: 281.789.6402 | 900 Moscoso Community South, Bunker Creek Plaza Drive, Suite 300, Austin, TX 78748 | T: 512.486.5044
 904 Main Street, Lake Como, NJ 07719 | T: 732.974.0198 | F: 732.974.3251 | 240 Main Street, Suite 110, Chester, NJ 07930 | F: 908.879.9229 | F: 908.879.0222
 790 Newtown-Yorkville Road, Suite 425, PA 18904 | T: 267.685.0276 | F: 267.685.0241 | 8 Robinson Street, Suite 102, Torre Verde, NJ 08753 | T: 732.974.0198 | F: 732.974.3251

LIGHTING PLAN

PROJECT: VPS HYUNDAI N. RICHLAND HILLS LOT A3, A4, A5 7724 NE LOOP 820 CITY OF NORTH RICHLAND HILLS

JOB No: 2320-99-008 DATE: 09/21/18
 DRAWN BY: BDG SCALE: (N) AS SHOWN
 DESIGNED BY: JTE SHEET No: 1
 CHECKED BY: JTE OF 1

CONSTRUCTION CHECK DATE
 CONSTRUCTION CHECK DATE
 DEC Client Code: 2320 Rev. # 0



Plotted: 10/22/18 11:39 AM By: bgaudin Product Ver: 23.0s (LMS Tech) File: P:\JCEPC PROJECTS\2320 USA Shade\99-008 North Richland Hills TX - Hyundai\DWG\Site Plans\2320209900805.dwg -> LIGHTING PLAN

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.



CORPORATE HEADQUARTERS
8505-A CHANCELLOR ROW
DALLAS, TX, 75247
800-966-5005

CERTIFICATIONS:
IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER
CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:
AUTONATION INC.

PROJECT NAME:
**CDJR
N.RICHLAND HILLS**

LOCATION:
**NORTH RICHLAND HILLS
TX**

PROJECT NUMBER:
1001

STRUCTURE TYPE:
**HERITAGE CANTILEVERS &
DIAMOND PROTECTORS**

SIZE:
VARIOUS

SCALE : ENGINEERING

DRAWING SIZE:
D

DATE	DRW	CHK	ENG
10/19/18	SA	JO	JO

RELEASE FOR FABRICATION
DESCRIPTION

NC
REV

Eng. By : JO 10/19/18

Design By : SA 10/19/18

Approved By : JO 10/19/18

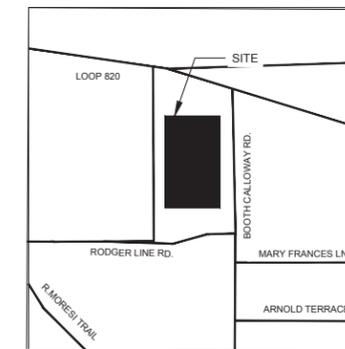
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SITE PLAN

DWG. **62998-1.8**

PAGE **4000**

REV. **NC**



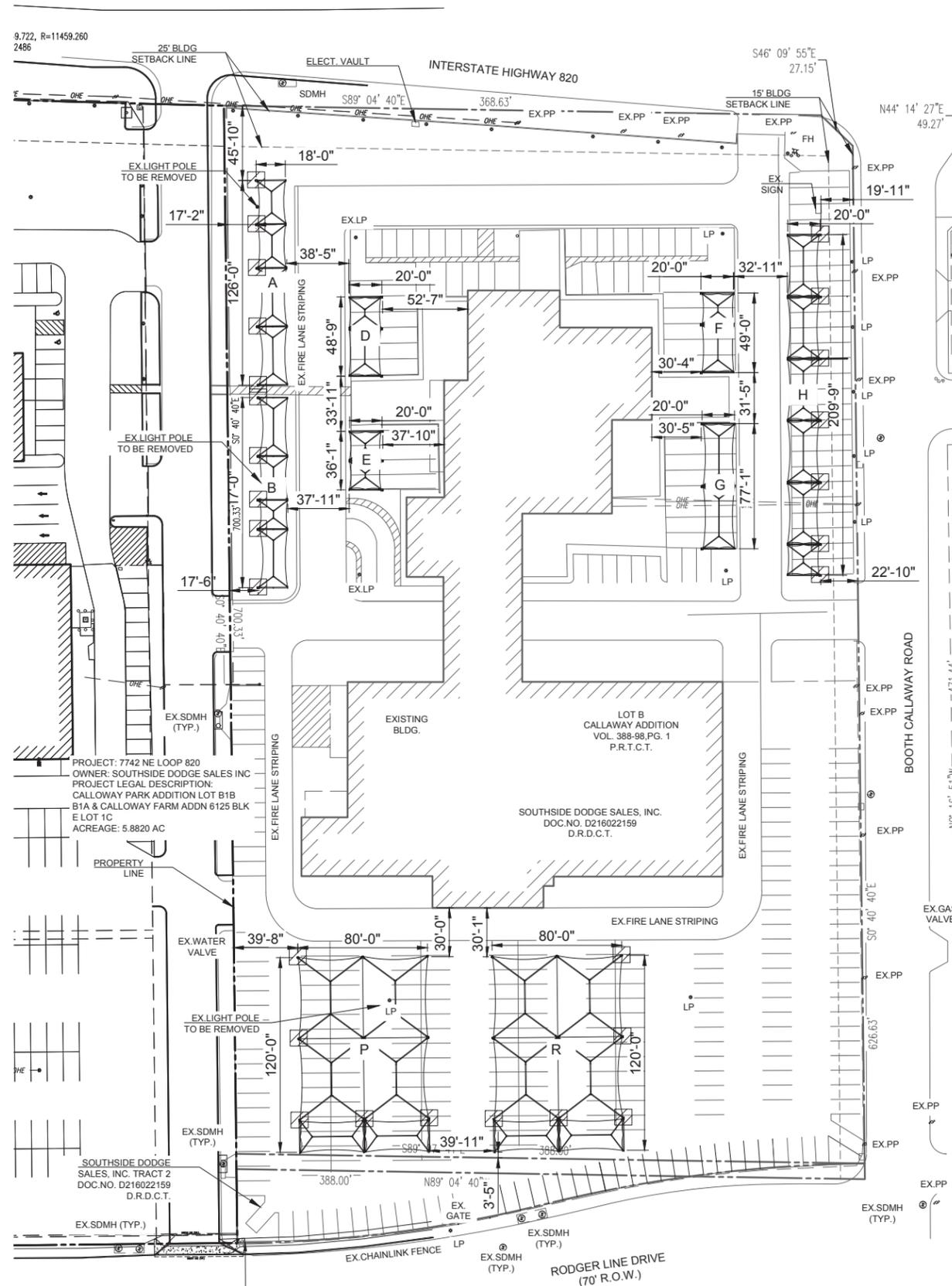
VICINITY MAP
N.T.S.

CODE ANALYSIS							
BUILDING	OCCUPANCY	CONSTRUCTION TYPE	AREA (SQF)	OCCUPANT LOAD	COLUMNS	TYPE OF HAIL NET	REFERENCE FOR COLUMN SUPPORT
A	S2	2-B	2268	N/A	5	SINGLE HERITAGE CANTILEVER	1001-1.0-3000
B	S2	2-B	2106	N/A	5	SINGLE HERITAGE CANTILEVER	1001-1.0-3000
D	S2	2-B	975	N/A	3	SINGLE HERITAGE CANTILEVER	1001-1.0-3000
E	S2	2-B	722	N/A	3	SINGLE HERITAGE CANTILEVER	1001-1.0-3000
F	S2	2-B	980	N/A	3	SINGLE HERITAGE CANTILEVER	1001-1.0-3000
G	S2	2-B	1542	N/A	3	SINGLE HERITAGE CANTILEVER	1001-1.0-3000
H	S2	2-B	4195	N/A	7	SINGLE HERITAGE CANTILEVER	1001-1.0-3000
P	S2	2-B	9600	N/A	9	CUSTOM PROTECTOR CANTILEVER	1001-2.0-3000
R	S2	2-B	9600	N/A	9	CUSTOM PROTECTOR CANTILEVER	1001-2.0-3000
TOTAL			31988		47		

☒ COLUMNS TO BE WRAPPED



SITE PLAN
SCALE 1:40 (ENGINEERING)
CASE SUP 2018-10



PROJECT: 7742 NE LOOP 820
OWNER: SOUTHSIDE DODGE SALES INC
PROJECT LEGAL DESCRIPTION:
CALLAWAY PARK ADDITION LOT B1B
B1A & CALLAWAY FARM ADDN 6125 BLK
E LOT 1C
ACREAGE: 5.8820 AC

SOUTHSIDE DODGE SALES, INC.
DOC.NO. D216022159
D.R.D.C.T.

SOUTHSIDE DODGE SALES, INC. TRACT 2
DOC.NO. D216022159
D.R.D.C.T.

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.



CORPORATE HEADQUARTERS
8505-A CHANCELLOR ROW
DALLAS, TX, 75247
800-966-5005

CERTIFICATIONS:
IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER
CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:
AUTONATION INC.
PROJECT NAME:
CDJR N.RICHLAND HILLS
LOCATION:
NORTH RICHLAND HILLS, TX
PROJECT NUMBER:
62998

STRUCTURE TYPE:
HERITAGE CANTILEVERS & DIAMOND PROTECTORS
SIZE:
VARIOUS

SCALE : AS NOTED
DRAWING SIZE: **B**

NC	REV	DESCRIPTION	RELEASE FOR FABRICATION		
			DATE	DRW	CHK
			10/19/18	SA	JO
				SA	JO
				SA	JO

Eng. By : **JO** 10/19/18
Design By : **SA** 10/19/18
Approved By : **JO** 10/19/18

DRAWING DESCRIPTION:
PERIMETER CLADDIED ELEVATIONS

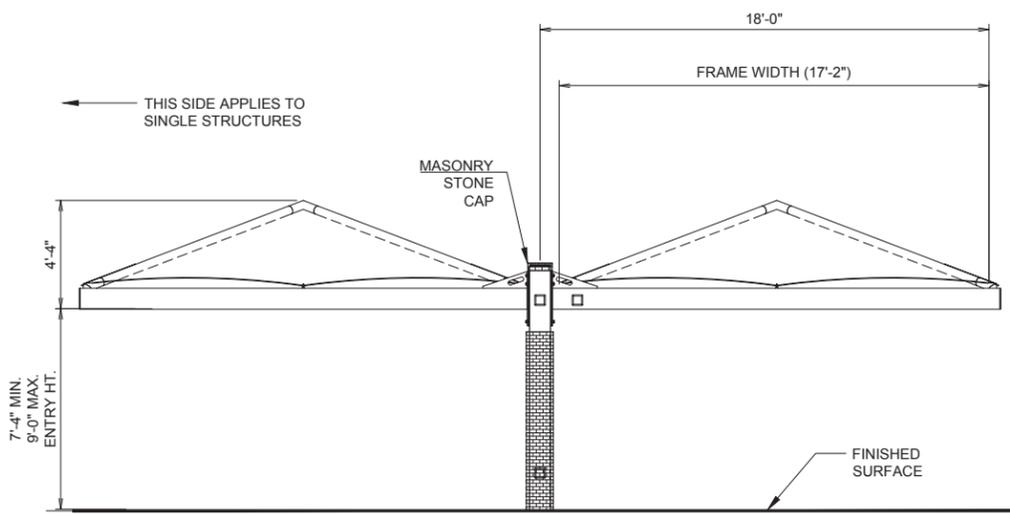
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PAGE **5000**

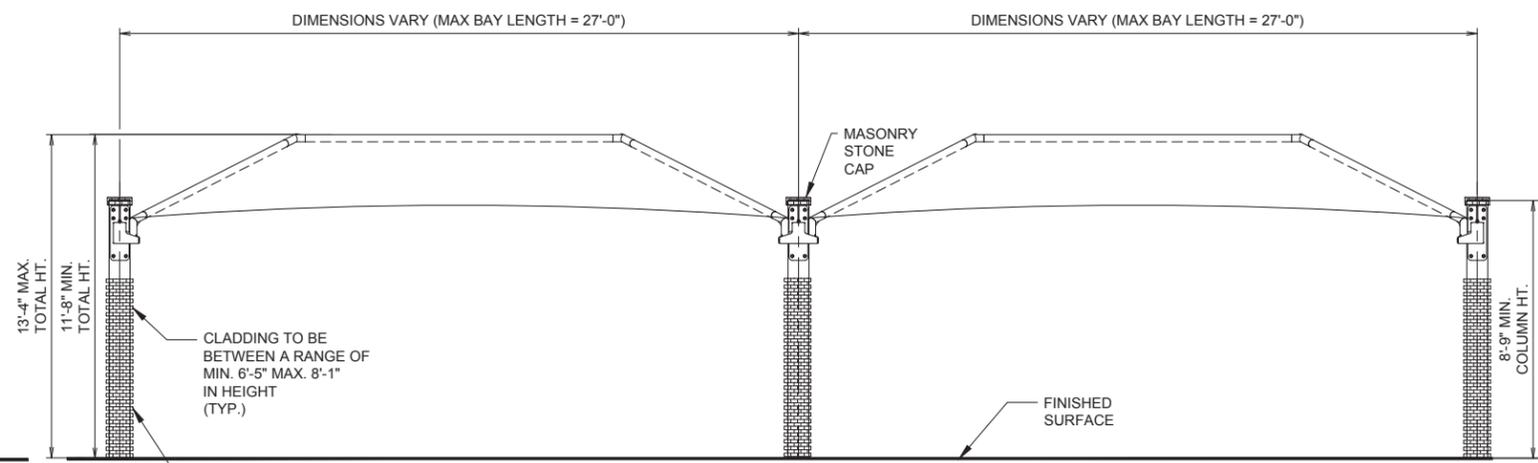
REV. **NC**



MATERIAL: LIMESTONE BRICK
COLOR- LIGHT
NOTE: CLADDING IS ONLY FOR THE EXTERNAL COLUMNS



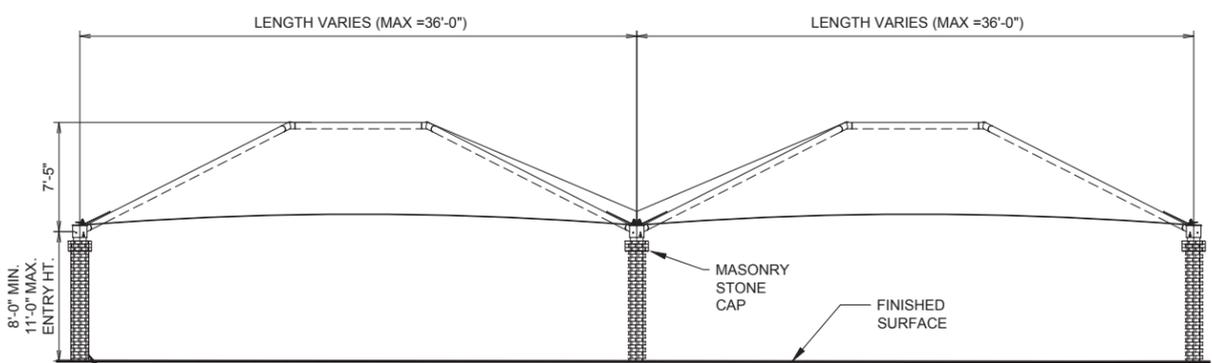
SIDE ELEVATION
(1 BAY SAMPLE, TYP.)
SEE SITE LAYOUT FOR BAY DISTRIBUTION
APPLIES TO SINGLE & DOUBLE HERITAGE CANTILEVERS



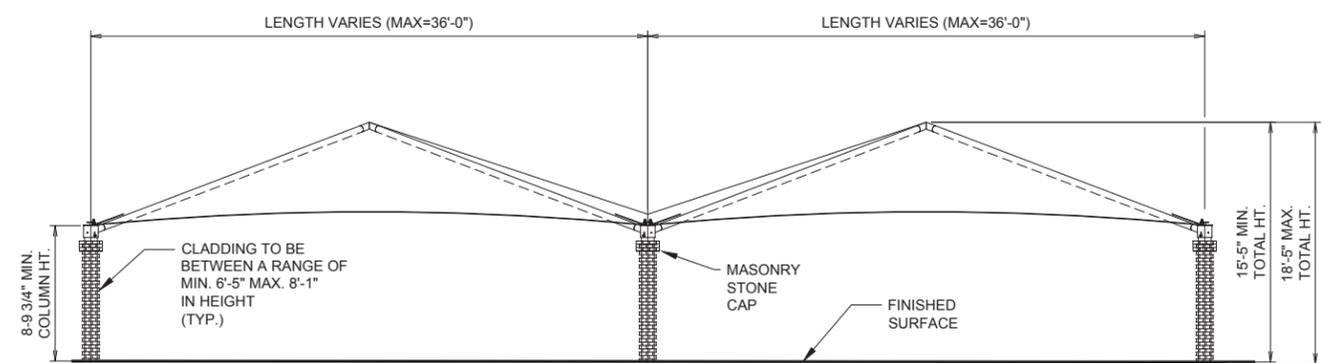
FRONT ELEVATION
(2 BAY SAMPLE, TYP.)
SEE SITE LAYOUT FOR BAY DISTRIBUTION
APPLIES TO SINGLE & DOUBLE HERITAGE CANTILEVERS

ELEVATIONS
HERITAGE CANTILEVERS

NOTE:
HEIGHT OF CLADDING OF EACH COLUMN WILL VARY DEPENDING ON THE ELEVATIONS AT EACH LOCATION



SIDE ELEVATION
(2 BAY SAMPLE, TYP.)
SEE SITE LAYOUT FOR BAY DISTRIBUTION



FRONT ELEVATION
(2 BAY SAMPLE, TYP.)
SEE SITE LAYOUT FOR BAY DISTRIBUTION

ELEVATIONS
DIAMOND PROTECTORS

GENERAL NOTES

DESIGN LOADS

BUILDING CODE	IBC 2012
LIVE LOADS	5 PSF
SNOW LOAD	5 PSF
WIND LOADS	115 MPH ¹
	3-Sec. Gust, RISK CATEGORY II & EXPOSURE C

1.- 115 MPH ACCORDING THE ULTIMATE WIND SPEED MAPS OF ASCE 7-10 IS EQUIVALENT TO THE NOMINAL WIND SPEED OF 90 MPH ACCORDING ASCE 7-05 AND IBC 2012 EQ 16-32.

STRUCTURAL STEEL

1.- ALL STRUCTURAL SHAPES SHALL BE COLD FORMED HSS ASTM A500 GRADE C, UNLESS OTHERWISE NOTED, TYPICAL MECHANICAL PROPERTIES FOR HSS PRODUCTS:
 SQUARE AND RECTANGULAR 50,000 PSI YIELD / 62,000 PSI TENSILE
 ROUND PIPE 46,000 PSI YIELD / 62,000 PSI TENSILE

2.- ALL GALVANIZED STEEL TUBE PRODUCTS ARE MANUFACTURED PER ASTM A500, TYPICAL MECHANICAL PROPERTIES ACHIEVED FOR GALVANIZED TUBE PRODUCTS:
 ROUND TUBE 45,000 PSI YIELD / 48,000 PSI TENSILE

3.- ALL PLATES SHALL COMPLY WITH ASTM A572 GRADE 50.

4.- ALL STEEL TUBING SHALL BE TRIPLE COATED FOR RUST PROTECTION USING THE IN-LINE ELECTROPLATING COAT PROCESS. TUBING SHALL BE INTERNALLY COATED WITH ZINC AND ORGANIC COATINGS TO PREVENT CORROSION AS MANUFACTURED BY ALLIED TUBE & CONDUIT.

5.- STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH A.I.S.C. SPECIFICATIONS.

6.- ALL SHOP WELDS SHALL BE EXECUTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY (AWS) D1.1 SPECIFICATIONS. ALL WELDS SHALL BE CONTINUOUS WHERE LENGTH IS NOT GIVEN, UNLESS OTHERWISE SHOWN OR NOTED ON DRAWINGS. ALL WELDS SHALL DEVELOP THE FULL STRENGTH OF THE WEAKER MEMBER. ALL WELDS SHALL BE MADE USING E70XX .045 WIRE.

7.- SHOP CONNECTIONS SHALL BE WELDED UNLESS NOTED OTHERWISE. FIELD CONNECTIONS SHALL BE AS INDICATED ON THE DRAWINGS (IF REQUIRED). ALL FILLET WELDS SHALL BE A MINIMUM OF 3/16" UNLESS OTHERWISE NOTED. FIELD WELDS SHALL NOT BE ALLOWED.

8.- ALL HIGH STRENGTH BOLTS SHALL COMPLY WITH ASTM A325 TYPE 1 OR A490 TYPE 1. ALL NUTS SHALL COMPLY WITH ASTM A563DH, AND WASHERS SHALL COMPLY WITH ASTM F436.

9.- ALL HIGH STRENGTH BOLTS SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION.

10.- ALL STAINLESS STEEL BOLTS / STUDS SHALL COMPLY WITH ASTM F-593, ALLOY GROUP 1 OR 2 ALL NUTS SHALL COMPLY WITH ASTM F-594 ALLOY GROUP 1 OR 2.

11.- ALL STRUCTURAL STEEL SHALL BE PAINTED WITH ONE SHOP COAT (2.5 TO 3.5 MILS THICK MIN). THIS COAT IS A WEATHER RESISTANT POWDER COATING BASED ON POLYESTER TGIC (MANUFACTURED BY SHERWIN WILLIAMS OR TIGER DRYLAC). TO ACHIEVE OPTIMUM ADHESION, IT IS RECOMMENDED THAT THE PROPER TREATMENT AND DRYING TAKE PLACE BEFORE COATING. POLYESTER POWDER (TGIC) SPECIFICATIONS SHALL BE AS FOLLOWS:

- PENCIL HARDNESS (ASTM D-3363)
- HUMIDITY (ASTM D-2247)
- SOLVENT RESISTANCE (PCI METHOD) - 50 DBL RUBS SL. SOFTNES

FABRIC SPECIFICATION

1.- FABRIC SHALL BE A HIGH DENSITY POLYETHYLENE WITH ULTRA VIOLET ADDITIVES, WITH MONOFILAMENT AND TAPE CONSTRUCTION GIVING A STABLE MATERIAL AND RACHEL KNITTED TO ENSURE MATERIAL WILL NOT UNRAVEL IF CUT.

2.- FABRIC SPECIFICATIONS: **SOLID COLORS** **STRIPE COLORS**
 - FADING MINIMUM FADING AFTER 5 YEARS
 - LIFE EXPECTANCY A MINIMUM OF 8 YEARS CONTINUOUS EXPOSURE TO THE SUN

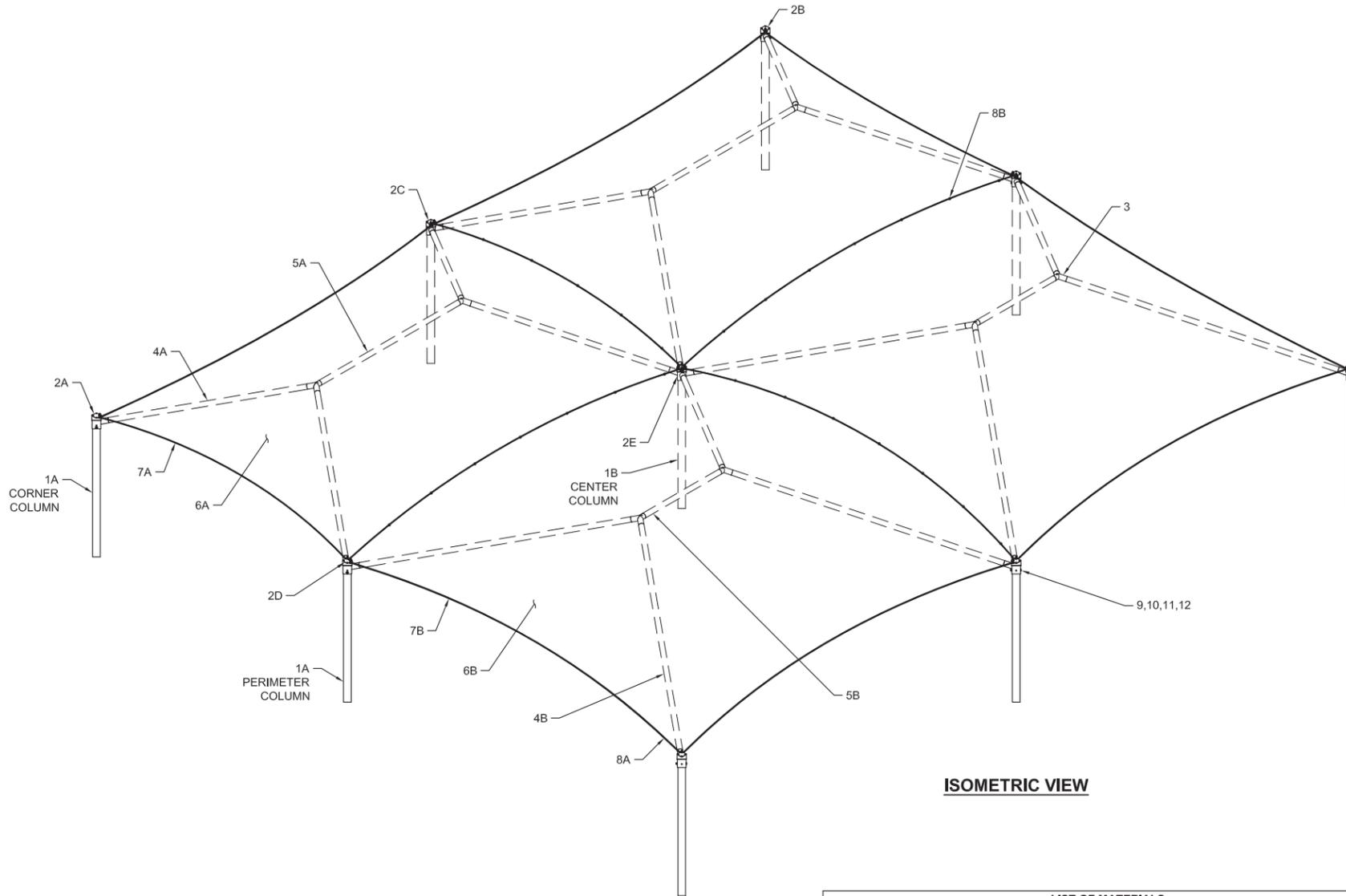
3.- FIRE TEST ON FABRIC: NFPA 701 TEST 2 AND ASTM E 84

4.- THREAD-PTFE (TEFLON) USED MEET THE FOLLOWING SPECIFICATIONS: HIGH STRENGTH, LOW SHRINKAGE, WIDE TEMPERATURE RANGE, FLEX & ABRASION RESISTANT AND UV RADIATION IMMUNITY. LOCKSTITCH - 1200 DENIER. CHAINSTITCH THREAD - 2400 DENIER.

AIRCRAFT CABLE

1.- WIRE ROPE CABLE SHALL BE 7x19 STRAND CORE GALVANIZED WIRE ROPE WITH A BREAKING STRENGTH VALUE OF 14,400 LBS (3/8" DIAMETER).

2.- CABLES SHALL BE FED THROUGH THE FABRIC SLEEVES AROUND THE PERIMETER OF THE CANOPY AND TENSIONED UNTIL THE FABRIC PANELS (DESIGNED PURPOSELY UNDERSIZED) REACH A TAUNT APPEARANCE. ANY LONG TERM CABLE SAG SHALL BE MINIMIZED DURING THE MAINTENANCE RE-TIGHTENING VISITS AS REQUIRED.



ISOMETRIC VIEW

LIST OF MATERIALS

ITEM	QTY.	DESCRIPTION	MATERIAL / DWG	SMI PART NO.
1A	TBD	COLUMN CORNER & PERIMETER	HSS 7 x 7 x 0.375	N/A
1B	TBD	COLUMN CENTER	HSS 7 x 7 x 0.250	N/A
2A	TBD	CROWN SINGLE RIGHT	HSS 8 x 8 x 0.375	N/A
2B	TBD	CROWN SINGLE LEFT	HSS 8 x 8 x 0.375	N/A
2C	TBD	CROWN DOUBLE LONG SIDE	HSS 8 x 8 x 0.375	N/A
2D	TBD	CROWN DOUBLE SHORT SIDE	HSS 8 x 8 x 0.375	N/A
2E	TBD	CROWN CENTER	HSS 8 x 8 x 0.375	N/A
3	TBD	CROSSPIECE	5.0 GA. 7 RD. TUBE	N/A
4A	TBD	EXTENSION	5.0 GA. 7 RD. TUBE	LENGTH VARIES
4B	TBD	EXTENSION	5.0 GA. 7 RD. TUBE	LENGTH VARIES
5A	TBD	RIDGE	5.0 GA. 7 RD. TUBE	LENGTH VARIES
5B	TBD	RIDGE	5.0 GA. 7 RD. TUBE	LENGTH VARIES
6A	TBD	FABRIC TOP (CUSTOM)	EXTREME 32	LENGTH VARIES
6B	TBD	FABRIC TOP (CUSTOM)	EXTREME 32	LENGTH VARIES
7A	TBD	3/8" STEEL CABLE	GALVANIZED CABLE	LENGTH VARIES
7B	TBD	3/8" STEEL CABLE	GALVANIZED CABLE	LENGTH VARIES
8A	TBD	Ø3/8" CABLE CLAMP	GALVANIZED	307629
8B	TBD	Ø1/2" CABLE CLAMP	GALVANIZED	307627
9	TBD	Ø3/4"-10NC x 9 1/2" HEX BOLT	ASTM A325 GALVANIZED	308328
10	TBD	Ø3/4"-10NC HEX NUT	ASTM A563 GALVANIZED	307687
11	TBD	Ø3/4" SPLIT LOCK WASHER	ASTM F436 GALVANIZED	307832
12	TBD	Ø3/4" FLAT WASHER	ASTM F436 GALVANIZED	307624

CODE ANALYSIS

BUILDING	OCCUPANCY	CONSTRUCTION TYPE	AREA (SQF)	OCCUPANT LOAD
SHADE STRUCTURE	U	V-B	TBD	N/A
DIAMOND PROTECTORS				

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CORPORATE HEADQUARTERS
 8505-A CHANCELLOR ROW
 DALLAS, TX, 75247
 800-966-5005

CERTIFICATIONS:

IAS CERTIFICATION No: FA-428
 CLARK COUNTY MANUFACTURER
 CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:

AUTONATION INC.

PROJECT NAME:

CDJR
N. RICHLAND HILLS

LOCATION:

NORTH RICHLAND HILLS TX

PROJECT NUMBER:

1002

STRUCTURE TYPE:

DIAMOND PROTECTORS (FULL CUSTOM)

SIZE:

VARIES

SCALE : AS NOTED

DRAWING SIZE:

B

JO	ENG
JO	CHK
AK	DRW
05/26/17	DATE
NC	REV

Eng. By :	AK	05/26/17
Design By :	SA	05/26/17
Approved By :	SA	05/26/17

DRAWING DESCRIPTION:
NOTES / LOM

DWG. **1002-2.0**

PAGE **1000**

REV. **NC**

CASE SUP 2018-10

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DALLAS, TX, 75247
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AUTONATION INC.

PROJECT NAME:
CDJR
N. RICHLAND HILLS
LOCATION:
NORTH RICHLAND HILLS
TX
PROJECT NUMBER:
1002

STRUCTURE TYPE:
DIAMOND PROTECTORS
(FULL CUSTOM)

SIZE:
VARIES
SCALE: AS NOTED

DRAWING SIZE: B

REV	DATE	DRW	CHK	ENG
NC	05/26/17	AK	JO	JO

DESCRIPTION	DATE	DRW	CHK	ENG
RELEASE FOR CONSTRUCTION	05/26/17	AK	JO	JO

Eng. By : AK 05/26/17
Design By : SA 05/26/17
Approved By : SA 05/26/17

DRAWING DESCRIPTION:
VIEWS AND DETAILS

DWG. 1002-2.0

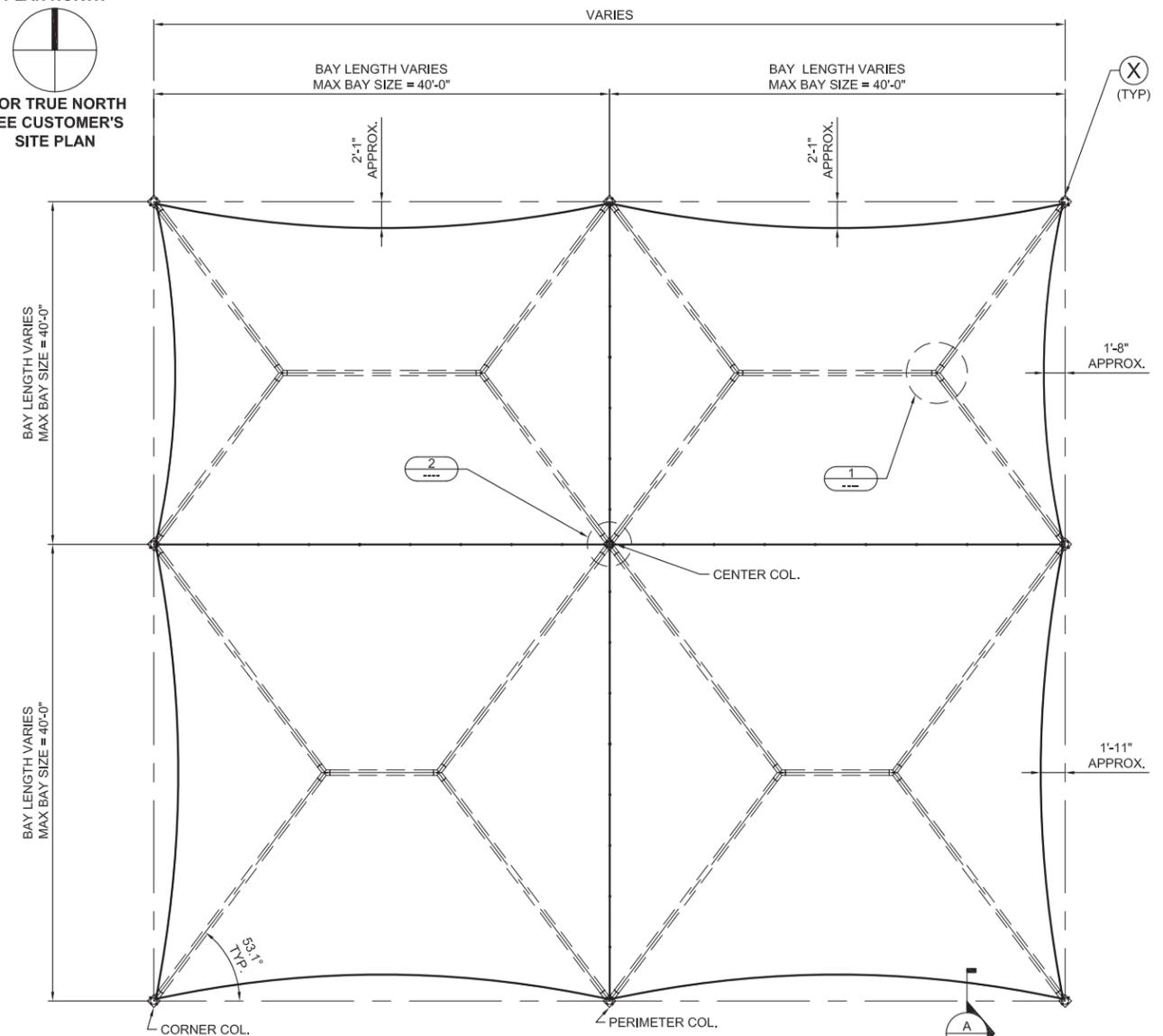
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REV. NC

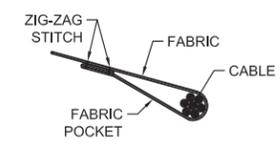
PLAN NORTH



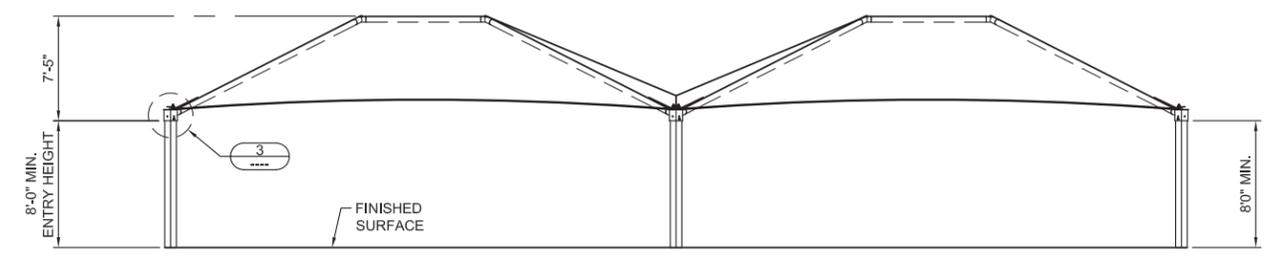
FOR TRUE NORTH
SEE CUSTOMER'S
SITE PLAN



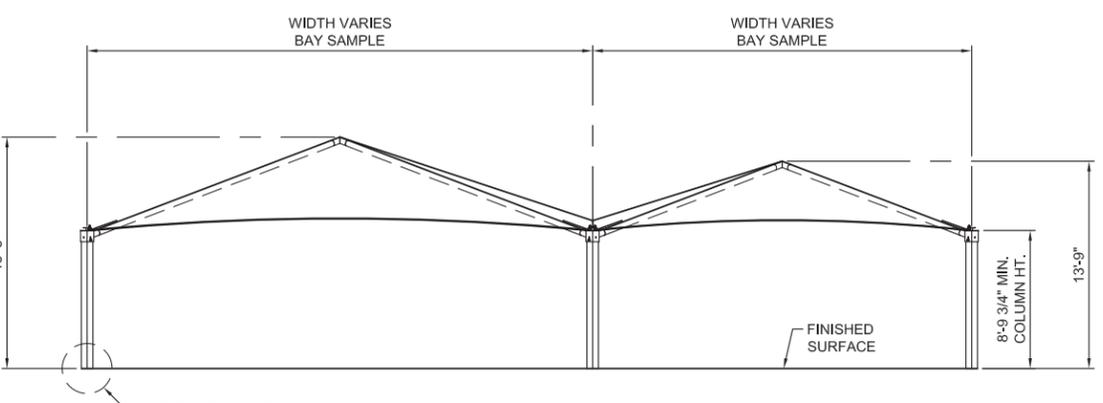
TOP VIEW



SECTION A-A

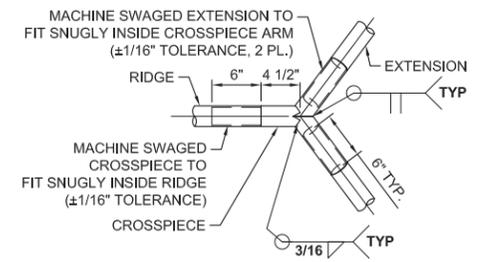


FRONT ELEVATION

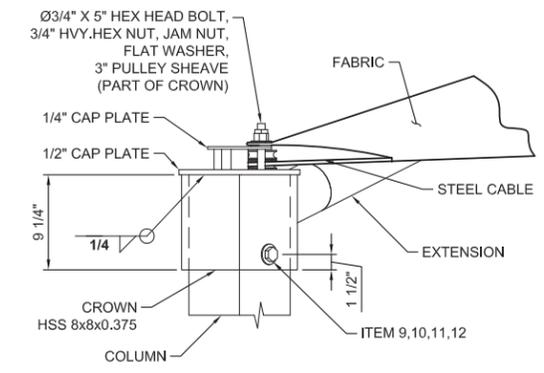


SIDE ELEVATION

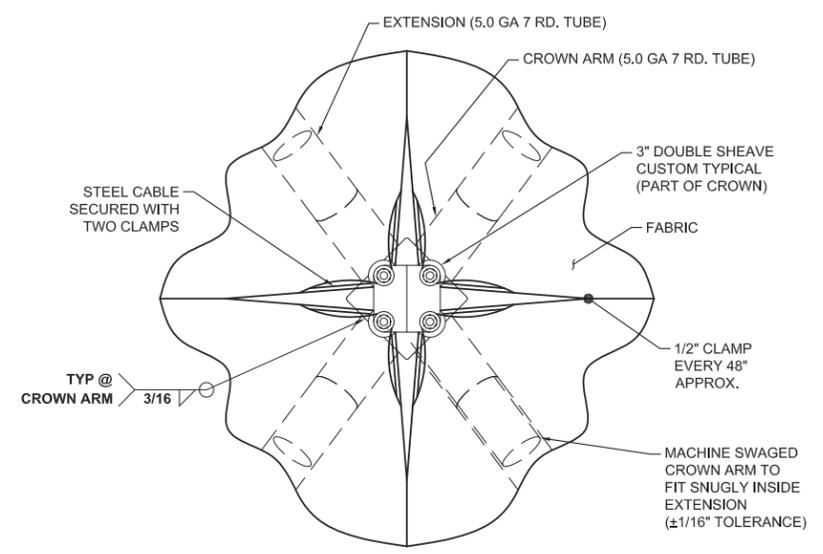
CASE SUP 2018-10



DETAIL 1



DETAIL 3
TYPICAL FABRIC CONNECTION
TYP. PERIMETER CROWNS



DETAIL 2
FABRIC CONNECTION TYPICAL
FOR ALL CENTER CROWNS

GENERAL NOTES

DESIGN LOADS

BUILDING CODE	IBC 2012
LIVE LOADS	5 PSF
SNOW LOAD	5 PSF
WIND LOADS	115 MPH ¹
	3-Sec. Gust, RISK CATEGORY II & EXPOSURE C

1.- 115 MPH ACCORDING THE ULTIMATE WIND SPEED MAPS OF ASCE 7-10 IS EQUIVALENT TO THE NOMINAL WIND SPEED OF 90 MPH ACCORDING ASCE 7-05 AND IBC 2012 EQ 16-32.

STRUCTURAL STEEL

1.- ALL STRUCTURAL SHAPES SHALL BE COLD FORMED HSS ASTM A500 GRADE C, UNLESS OTHERWISE NOTED, TYPICAL MECHANICAL PROPERTIES FOR HSS PRODUCTS:
 SQUARE AND RECTANGULAR 50,000 PSI YIELD / 62,000 PSI TENSILE
 ROUND PIPE 46,000 PSI YIELD / 62,000 PSI TENSILE

2.- ALL GALVANIZED STEEL TUBE PRODUCTS ARE MANUFACTURED PER ASTM A500, TYPICAL MECHANICAL PROPERTIES ACHIEVED FOR GALVANIZED TUBE PRODUCTS:
 ROUND TUBE 45,000 PSI YIELD / 48,000 PSI TENSILE

3.- ALL PLATES SHALL COMPLY WITH ASTM A572 GRADE 50.

4.- ALL STEEL TUBING SHALL BE TRIPLE COATED FOR RUST PROTECTION USING THE IN-LINE ELECTROPLATING COAT PROCESS. TUBING SHALL BE INTERNALLY COATED WITH ZINC AND ORGANIC COATINGS TO PREVENT CORROSION AS MANUFACTURED BY ALLIED TUBE & CONDUIT.

5.- STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH A.I.S.C. SPECIFICATIONS.

6.- ALL SHOP WELDS SHALL BE EXECUTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY (AWS) D1.1 SPECIFICATIONS. ALL WELDS SHALL BE CONTINUOUS WHERE LENGTH IS NOT GIVEN, UNLESS OTHERWISE SHOWN OR NOTED ON DRAWINGS. ALL WELDS SHALL DEVELOP THE FULL STRENGTH OF THE WEAKER MEMBER. ALL WELDS SHALL BE MADE USING E70XX .045 WIRE.

7.- SHOP CONNECTIONS SHALL BE WELDED UNLESS NOTED OTHERWISE. FIELD CONNECTIONS SHALL BE AS INDICATED ON THE DRAWINGS (IF REQUIRED). ALL FILLET WELDS SHALL BE A MINIMUM OF 3/16" UNLESS OTHERWISE NOTED. FIELD WELDS SHALL NOT BE ALLOWED.

8.- ALL HIGH STRENGTH BOLTS SHALL COMPLY WITH ASTM A325 TYPE 1 OR A490 TYPE 1. ALL NUTS SHALL COMPLY WITH ASTM A563DH, AND WASHERS SHALL COMPLY WITH ASTM F436.

9.- ALL HIGH STRENGTH BOLTS SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION.

10.- ALL STAINLESS STEEL BOLTS SHALL COMPLY WITH ASTM F-593, ALLOY GROUP 1 OR 2 ALL NUTS SHALL COMPLY WITH ASTM F-594 ALLOY GROUP 1 OR 2.

11.- ALL STRUCTURAL STEEL SHALL BE PAINTED WITH ONE SHOP COAT (2.5 TO 3.5 MILS THICK MIN). THIS COAT IS A WEATHER RESISTANT POWDER COATING BASED ON POLYESTER TGIC (MANUFACTURED BY SHERWIN WILLIAMS OR TIGER DRYLAC). TO ACHIEVE OPTIMUM ADHESION, IT IS RECOMMENDED THAT THE PROPER TREATMENT AND DRYING TAKE PLACE BEFORE COATING. POLYESTER POWDER (TGIC) SPECIFICATIONS SHALL BE AS FOLLOWS:

- PENCIL HARDNESS (ASTM D-3363)
- HUMIDITY (ASTM D-2247)
- SOLVENT RESISTANCE (PCI METHOD) - 50 DBL RUBS SL. SOFTNES

FABRIC SPECIFICATION

1.- FABRIC SHALL BE A HIGH DENSITY POLYETHYLENE WITH ULTRA VIOLET ADDITIVES, WITH MONOFILAMENT AND TAPE CONSTRUCTION GIVING A STABLE MATERIAL AND RACHEL KNITTED TO ENSURE MATERIAL WILL NOT UNRAVEL IF CUT.

2.- FABRIC SPECIFICATIONS: SOLID COLORS STRIPE COLORS
 - FADING MINIMUM FADING AFTER 5 YEARS
 - LIFE EXPECTANCY A MINIMUM OF 8 YEARS CONTINUOUS EXPOSURE TO THE SUN

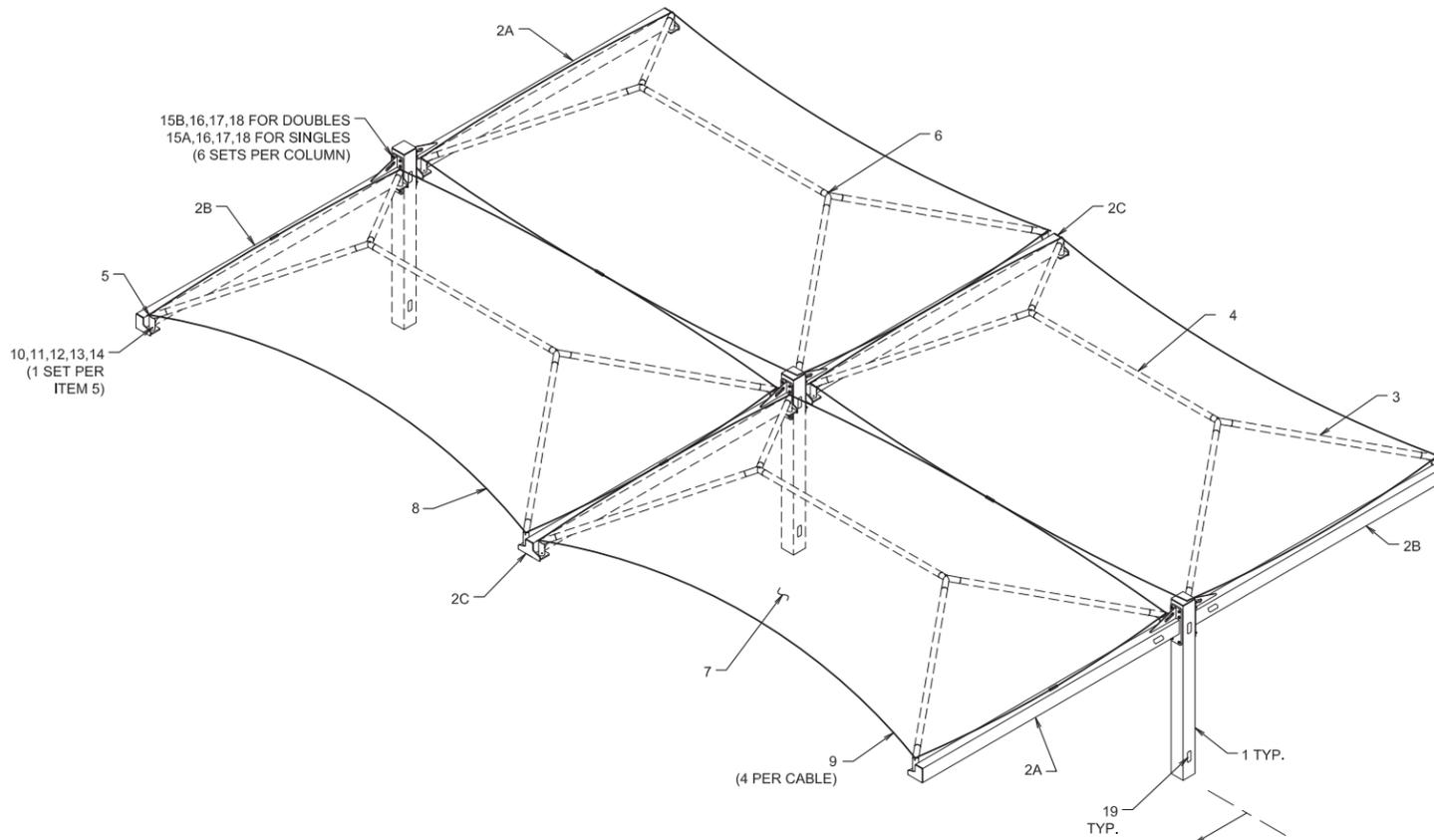
3.- FIRE TEST ON FABRIC: NFPA 701 TEST 2 AND ASTM E 84

4.- THREAD-PTFE (TEFLON) USED MEET THE FOLLOWING SPECIFICATIONS: HIGH STRENGTH, LOW SHRINKAGE, WIDE TEMPERATURE RANGE, FLEX & ABRASION RESISTANT AND UV RADIATION IMMUNITY. LOCKSTITCH - 1200 DENIER. CHAINSTITCH THREAD - 2400 DENIER.

AIRCRAFT CABLE

1.- WIRE ROPE CABLE SHALL BE 7x19 STRAND CORE GALVANIZED WIRE ROPE WITH A BREAKING STRENGTH VALUE OF 14,400 LBS (3/8" DIAMETER).

2.- CABLES SHALL BE FED THROUGH THE FABRIC SLEEVES AROUND THE PERIMETER OF THE CANOPY AND TENSIONED UNTIL THE FABRIC PANELS (DESIGNED PURPOSELY UNDERSIZED) REACH A TAUNT APPEARANCE. ANY LONG TERM CABLE SAG SHALL BE MINIMIZED DURING THE MAINTENANCE RE-TIGHTENING VISITS AS REQUIRED.



ISOMETRIC VIEW

THIS SIDE APPLIES FOR SINGLE STRUCTURES ONLY

LIST OF MATERIALS (PROJECT TOTALS)

ITEM	QTY.	DESCRIPTION	MATERIAL / DWG.	SMI PART No.
1	TBD	COLUMN (ELECTRICAL)	HSS 10.0 x 10.0 x 0.375	N/A
2A	TBD	RIGHT CANTILEVER BEAM (ELECTRICAL)	HSS 10.0 x 6.00 x 0.375	N/A
2B	TBD	LEFT CANTILEVER BEAM (ELECTRICAL)	HSS 10.0 x 6.00 x 0.375	N/A
2C	TBD	CENTER CANTILEVER BEAM (ELECTRICAL)	HSS 10.0 x 6.00 x 0.375	N/A
3	TBD	EXTENSION	4.0 GA 8 RD. TUBING	N/A
4	TBD	RIDGE (ELECTRICAL)	4.0 GA 8 RD. TUBING	N/A
5	TBD	RAFTER	4.0 GA 8 RD. TUBING	N/A
6	TBD	CROSSPIECE (ELECTRICAL)	4.0 GA 8 RD. TUBING	N/A
7	TBD	FABRIC TOP CANT	EXTREME 32	AREA & WEIGHT VARIES
8	TBD	3/8" STEEL CABLE	GALVANIZED	LENGTH VARIES
9	TBD	3/8" CABLE CLAMP	GALVANIZED	307629
10	TBD	Ø1/2"-13NC x 5" HEX BOLT	18-8 SS	307980
11	TBD	Ø1/2"-13NC HEX NUT	18-8 SS	307621
12	TBD	Ø1/2" FLAT WASHER	18-8 SS	307645
13	TBD	Ø1/2" FLAT WASHER	DELFIN (ACETAL)	308083
14	TBD	Ø1/2" SPLIT LOCK WASHER	18-8 SS	117028
15A	TBD	Ø3/4"-10NC x 13" HEX BOLT	ASTM A325 GALVANIZED	307984
15B	TBD	Ø3/4"-10NC x 14" HEX BOLT	ASTM A325 GALVANIZED	307985
16	TBD	Ø3/4"-10NC HEX NUT	ASTM A563 GALVANIZED	307687
17	TBD	Ø3/4" SPLIT LOCK WASHER	ASTM F436 GALVANIZED	307832
18	TBD	Ø3/4" FLAT WASHER	ASTM F436 GALVANIZED	307624
19	TBD	HANDHOLE COVER KIT	5" x 5" HANDHOLE COVER KIT	HHCOV KIT-55
20	TBD	ANCHOR ROD SET 1-1/4" x 36"	F1554 GR55	307615

CODE ANALYSIS				
BUILDING	OCCUPANCY	CONSTRUCTION TYPE	AREA (SQF)	OCCUPANT LOAD
SHADE STRUCTURE TOTAL PROJECT	U	V-B	TBD	N/A

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.



CORPORATE HEADQUARTERS
 8505-A CHANCELLOR ROW
 DALLAS, TX, 75247
 800-966-5005

CERTIFICATIONS:

IAS CERTIFICATION No: FA-428
 CLARK COUNTY MANUFACTURER
 CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:

AUTONATION INC.

PROJECT NAME:

CDJR
N. RICHLAND HILLS

LOCATION:

NORTH RICHLAND HILLS TX

PROJECT NUMBER:

1002

STRUCTURE TYPE:

SINGLE & DOUBLE JOINED HERITAGE CANTILEVERS

SIZE:

VARIOUS

SCALE : AS NOTED

DRAWING SIZE: B

JO	ENG
JO	CHK
AK	DRW
05/26/17	DATE
NC	REV

Eng. By :	AK	05/26/17
Design By :	SA	05/26/17
Approved By :	SA	05/26/17

DRAWING DESCRIPTION:

NOTES / LOM

DWG.	1002-1.0
PAGE	1000
REV.	NC

PLAN NORTH

 FOR TRUE NORTH
 SEE CUSTOMER'S
 SITE PLAN

THESE PLANS AND SPECIFICATIONS ARE THE
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 800-966-5005

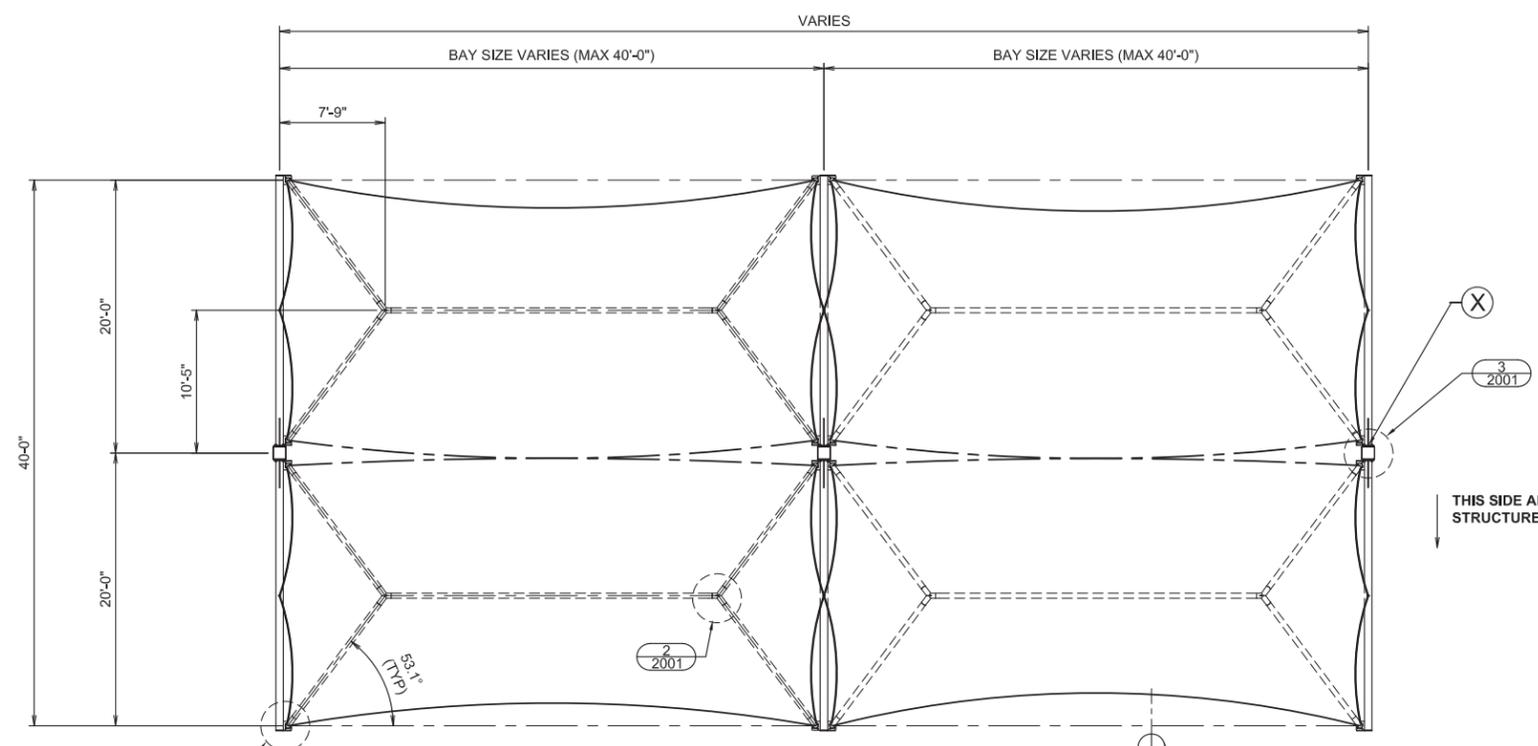
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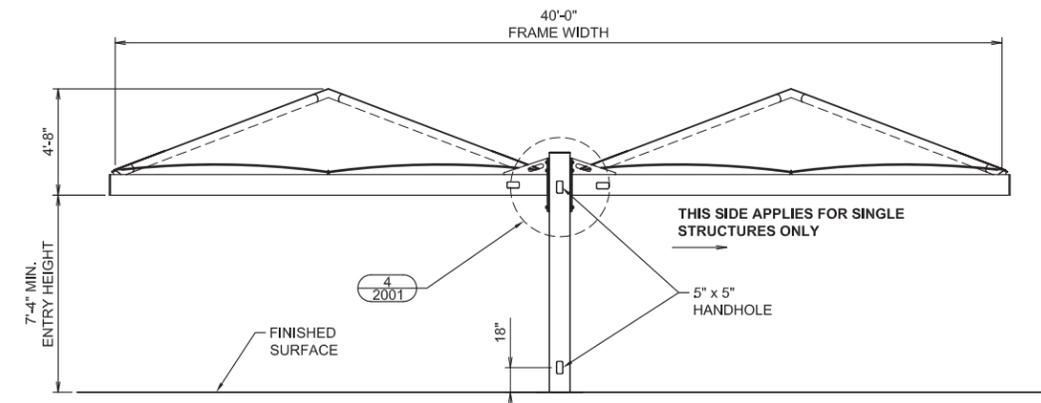
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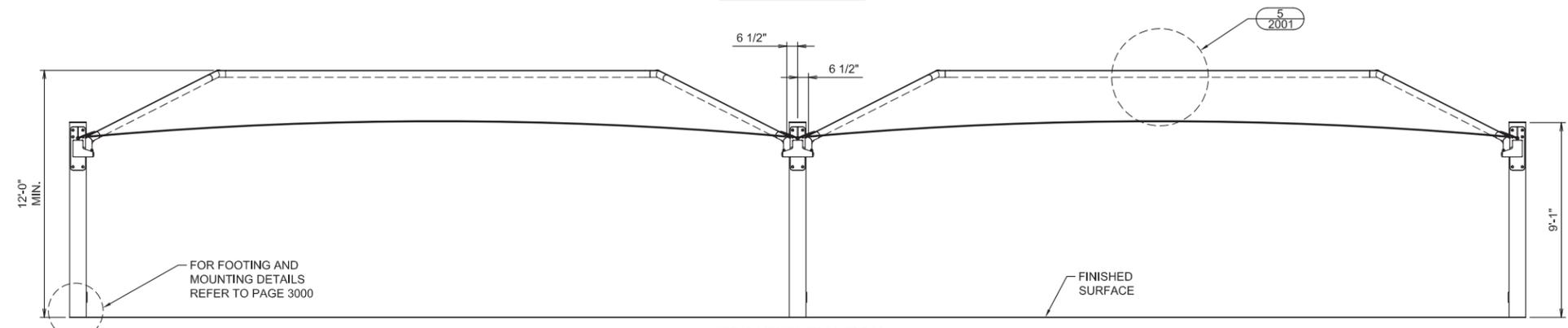
PLAN VIEW
 (2 BAY SAMPLE, TYP.)
 SEE SITE LAYOUT FOR BAY DISTRIBUTION

THIS SIDE APPLIES FOR SINGLE
 STRUCTURES ONLY



SIDE ELEVATION

THIS SIDE APPLIES FOR SINGLE
 STRUCTURES ONLY



FRONT ELEVATION

(2 BAY SAMPLE, TYP.)
 SEE SITE LAYOUT FOR BAY DISTRIBUTION

FOR FOOTING AND
 MOUNTING DETAILS
 REFER TO PAGE 3000

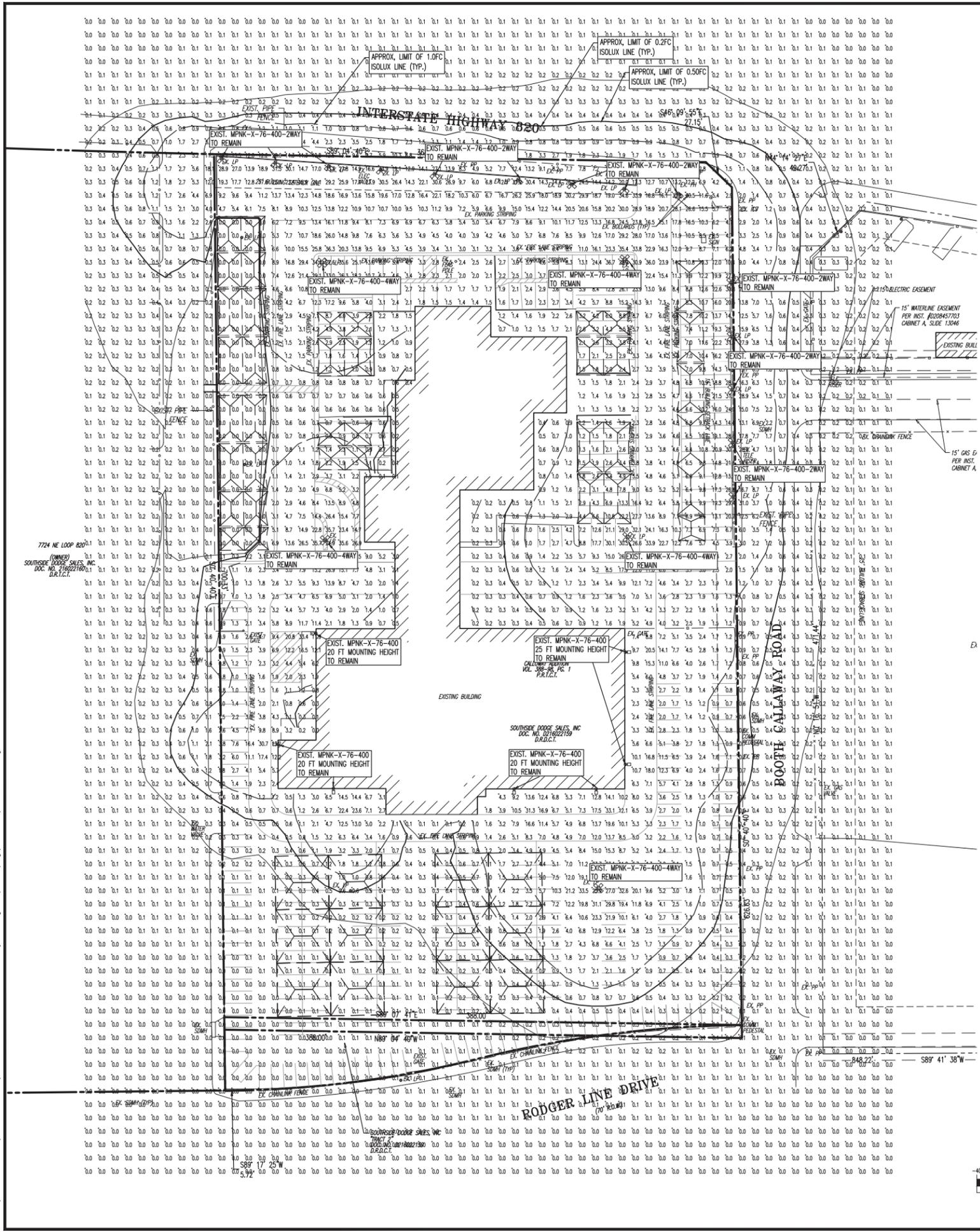
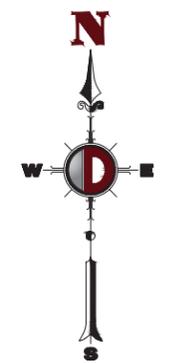
CASE SUP 2018-10

DATE	DRW	CHK	ENG
05/26/17	AK	AK	AK

DESCRIPTION	NC	REV
RELEASE FOR CONSTRUCTION		

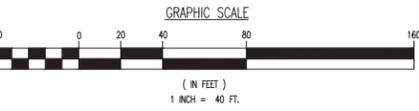
Eng. By :	AK	05/26/17
Design By :	SA	05/26/17
Approved By :	SA	05/26/17

DRAWING DESCRIPTION:	
DWG.	1002-1.0
PAGE	2000
REV.	NC



LUMINAIRE SCHEDULE									
SYMBOL	QTY	LABEL	MOUNTING HEIGHT	ARRANGEMENT	TOTAL LAMP LUMENS	LLF	DESCRIPTION	FILENAME	
	7	MPNK-X-76-400	20FT OR 25 FT	SINGLE @ 45 DEGREE TILT	42000	1.000	LUMARK NIGHTHAWK III 400 WATT SINGLE @ 45 DEGREE TILT	MPNK-X-76-400IES	
	5	MPNK-X-76-400-4WAY	25 FT	4 @ 45 DEGREE TILT	42000	1.000	LUMARK NIGHTHAWK III 400 WATT 4 @ 45 DEGREE TILT	MPNK-X-76-400IES	
	14	MPNK-X-76-400-2WAY	25 FT	2 @ 45 DEGREE TILT	42000	1.000	LUMARK NIGHTHAWK III 400 WATT 2 @ 45 DEGREE TILT	MPNK-X-76-400IES	

- GENERAL NOTES**
- THIS LIGHTING PLAN ILLUSTRATES ILLUMINATION LEVELS CALCULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA) APPROVED METHODS. ACTUAL SITE ILLUMINATION LEVELS AND PERFORMANCE OF LUMINAIRES MAY VARY DUE TO VARIATIONS IN WEATHER, ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, AND OTHER RELATED VARIABLE FIELD CONDITIONS.
 - ALL EXISTING CONDITIONS LIGHTING LEVELS ARE REPRESENTATIVE OF AN APPROXIMATION UTILIZING LABORATORY DATA FOR SIMILAR FIXTURES AND/OR ACTUAL FIELD MEASUREMENTS TAKEN WITH A LIGHT METER. DUE TO FACTORS SUCH AS FIXTURE MAINTENANCE, EQUIPMENT TOLERANCES, WEATHER CONDITIONS, ETC., ACTUAL LIGHTING LEVELS MAY DIFFER AND THE LIGHTING LEVELS DEPICTED ON THIS PLAN SHOULD BE CONSIDERED AS APPROXIMATE.
 - ALL WIRING METHODS AND EQUIPMENT CONSTRUCTION SHALL CONFORM TO THE CURRENT NATIONAL ELECTRICAL CODE.
 - ALL EXISTING LIGHTING CONDITIONS HAVE BEEN OBTAINED FROM SITE VISITS. LIGHTING LEVEL BENEATH HAIL NET STRUCTURES ARE NOT SHOWN.



CASE NO. SUP 2018-10

DYNAMIC ENGINEERING

(DB) MIDWEST DYNAMIC ENGINEERING CONSULTANTS, PC

LAND DEVELOPMENT CONSULTING • PERMITTING • GEO/TECHNICAL • ENVIRONMENTAL • SURVEY • PLANNING & ZONING

14021 Oak Grove Road, Suite 200, Houston, TX 77057 | 281.789.4402 | 901 Moscoso Community South, Border Oaks Plaza Drive, Suite 300, Austin, TX 78746 | 512.524.0404
 1904 Main Street, Lake Como, NJ 07719 | 732.974.0198 | 732.974.3221 | 240 Main Street, Suite 110, Chester, NJ 07930 | F. 908.879.9229 | F. 908.879.0222
 790 Newtown Yardway, Suite 425, PA 18640 | T. 267.685.0276 | F. 267.685.0241 | 8 Robinson Street, Suite 102, Torre River, NJ 08753 | 1.752.974.0198 | F. 732.974.3221

TITLE: LIGHTING PLAN

PROJECT: VPS CHRYSLER DODGE JEEP RAM N. RICHLAND HILLS
 LOT B, LOT 1C, BLOCK E
 7740 NE LOOP 820
 CITY OF NORTH RICHLAND HILLS, TARRANT COUNTY, TEXAS

JOB No.: 2320-99-007 **DATE:** 09/21/18

DRAWN BY: BDG **SCALE:** (N) AS SHOWN

DESIGNED BY: JTE **SHEET No.:** 1

CHECKED BY: JTE

CONSTRUCTION CHECK _____ DATE _____

CONSTRUCTION CHECK _____ DATE _____

DEC Client Code: 2320 **Rev. #** 0

Plotted: 10/22/18 - 11:38 AM, By: bgaudin, File: P:\VCEPC PROJECTS\2320 USA Sheds\99-007 North Richland Hills TX - Chrysler Dodge Jeep Ram\Drawings\02209007007.dwg, --- LIGHTING PLAN