

NOTES:

1. AMERICAN NATIONAL STANDARD INSTITUTE (ANSI) B77.1-2017 AMERICAN NATIONAL STANDARD FOR PASSENGER ROPEWAYS
2. REFER TO THE ANSI B77.1-2017 SECTION 4 "FIXED GRIP AERIAL LIFTS" TO ENSURE CODE COMPLIANCE.
3. LIFT LINE ELEVATIONS AND TOP OF CONCRETE ELEVATIONS ARE BASED ON UTILIZING EXISTING TOWER HEIGHTS.
4. SKI-UNDER CLEARANCES ARE BASED ON A SNOW DEPTH OF 2' (FEET) BENEATH THE LIFT LINE, PER CUSTOMER.
5. THIS PROPOSED LIFT PROFILE IS BASED ON GROUND SURVEY DATA OBTAINED FROM BERKSHIRE EAST.

# Preliminary

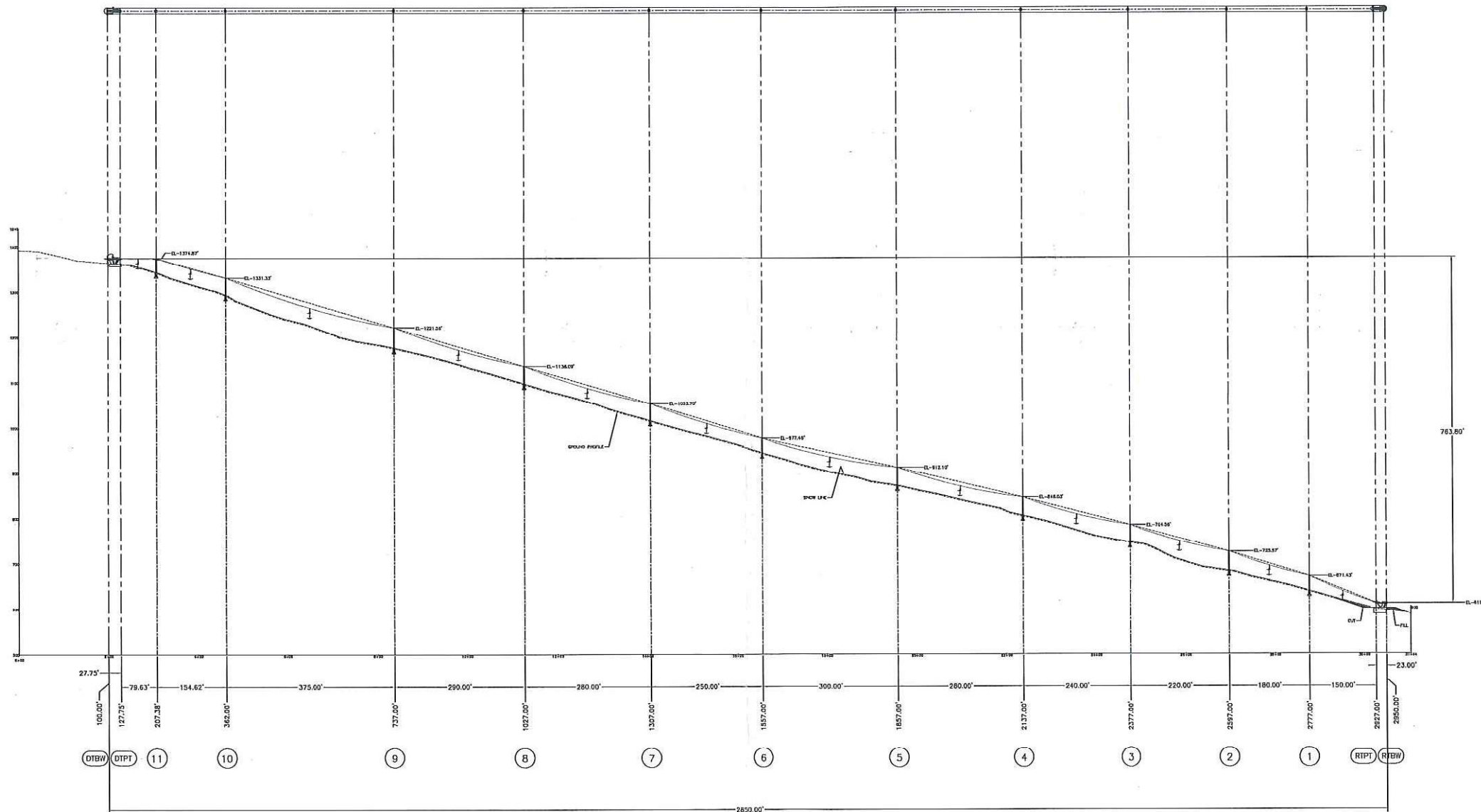
04/21/2021

LIFT DATA	
LIFT TYPE	FIXED GRIP TRIPLE CHAIR LIFT
DRIVE LOCATION	TOP
TENSION LOCATION	TOP
HORIZONTAL LENGTH	2850.00 ft
VERTICAL RISE	783.80 ft
SLOPE LENGTH	2950.57 ft
HAUL ROPE SPEED	400 ft/min
CAPACITY (uphill)	1440 pass/hr w/(4) passenger carriers
CAPACITY (downhill)	N/A
NUMBER OF CARRIERS	118-triple carriers
CARRIER SPACING	50.00 ft between carriers
WIRE ROPE SIZE & TYPE	32.90mm [1.295"] 6x25 IPS Right Lay (RL), PC,
WIRE ROPE GAUGE	686kN [154,219 LBS] BS, w/Bright Finish, Pre-stretched
WIRE ROPE LENGTH	12.50 ft
LIFT ROTATION	CW
CARRIAGE TRAVEL	10'-0" ft
HP (REQUIRED)	145 hp
DRIVE UNIT	200 hp ELECTRO/MECHANICAL
EVACUATION DRIVE	100 hp (DIESEL)

TOWER DATA							
TOWER NUMBER	WIRE ROPE HEIGHT (FT)	TOWER STATION (FT)	T.O.C. ELEVATION (FT)	ROPE ELEVATION (FT)		TOWER INCLINATION (DEG)	SHEAVE (UP/DOWN)
				UPHILL	DOWNHILL		
DT	11.08	--	--	--	--	N/A	--
DTGS	11.08	--	--	--	--	N/A	15/15
DTPF	11.08	--	--	--	--	N/A	25/25
11	30.99	--	--	--	--	0.00	85/85
10	37.50	--	--	--	--	0.00	65/25
9	45.00	--	--	--	--	0.00	65/25
8	38.00	--	--	--	--	0.00	65/25
7	37.50	--	--	--	--	0.00	65/25
6	32.50	--	--	--	--	0.00	*COMBO
5	39.50	--	--	--	--	0.00	65/25
4	40.00	--	--	--	--	0.00	65/25
3	37.50	--	--	--	--	0.00	45/25
2	49.00	--	--	--	--	0.00	45/25
1	32.50	--	--	--	--	0.00	45/25
RTPT	11.08	--	--	--	--	0.00	80/80
RTGS	11.08	--	--	--	--	N/A	15/15
RT	11.08	--	--	--	--	N/A	--

\* COMBINATION SHEAVE ASSEMBLY CONSISTS OF 4 (DEPRESS) OVER 4 (SUPPORT) SHEAVES

ABBREVIATIONS	
DT	DRIVE TERMINAL
RT	RETURN TERMINAL
BW	BULLWHEEL
STA	STATION (HORIZONTAL LOCATION)
EL	ELEVATION
TOC	TOP OF CONCRETE
GR	GROUND ELEVATION
PT	PORTAL SHEAVES
GS	GUIDE SHEAVE
PPH	PASSENGERS PER HOUR



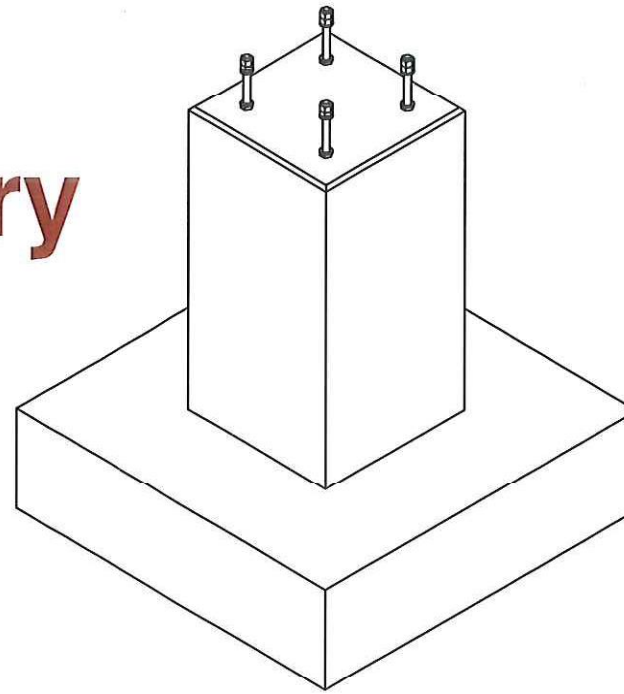
CUSTOMER APPROVAL:		SKYTRANS MFG, LLC CONTOODDOK, NH 03229	
PRODUCTION APPROVAL:		CUSTOMER: BERKSHIRE EAST MOUNTAIN RESORT CHARLEMONT, MA 01339	
D.C. APPROVAL:		JOB NO: BE	
TOLERANCES:		DRAWN BY: SPENDLETON DATE: 02APR21	
INVERT ELEVATIONS	±1/8" ±3mm	CHECKED BY: RSC	DATE: --
STATION LOCATIONS	±1/8" ±3mm	THIRD ANGLE PROJECTION	
ANCHOR BOLT LOCATIONS	±1/8" ±3mm	DO NOT SCALE DRAWING	
TOP OF CONCRETE	±1/8" ±3mm	DRAWING NO.-REV: BE-LQ1-P1	
INSIDE WETTED SURFACES	±1/8" ±3mm	SIZE: D	
FOOTING SIZE	±1/8" ±3mm	SHEET NO: 1 OF 1	

**NOTES:**

1. REFER TO DRAWING 2100-C99 FOR GENERAL CONCRETE SPECIFICATIONS BEFORE PROCEEDING.
2. REFER TO DRAWING 2100-C01 FOR FOOTING STATION AND ELEVATIONS.
3. ENSURE FOOTING IS PLACED ONLY ON NATURAL, UNDISTURBED SUBGRADE SOIL, FREE OF LOOSE OR DISTURBED MATERIAL.
4. ALL REINFORCING STEEL (REBAR) TO BE ASTM A615 GR.60.
5. ALL REINFORCING STEEL (REBAR) MUST BE BENT TO MIN. RADII ACCORDING WITH MOST RECENT VERSION OF ACI 318.
6. ALL REINFORCING STEEL (REBAR) TO BE BENT IS DIMENSIONED OUTSIDE TO OUTSIDE.
7. ALL REINFORCING STEEL (REBAR) TO BE WELDED SHALL BE ASTM A706.
8. DO NOT CAST CONCRETE IN STANDING WATER OR FROZEN GROUND.
9. ENSURE 3" COVER FOR ALL REINFORCEMENT STEEL.
10. THIS DESIGN MEETS OR EXCEEDS ANSI B77.1-2017 REQUIREMENT 4.1.1.6.2 "FOUNDATIONS".

# Preliminary

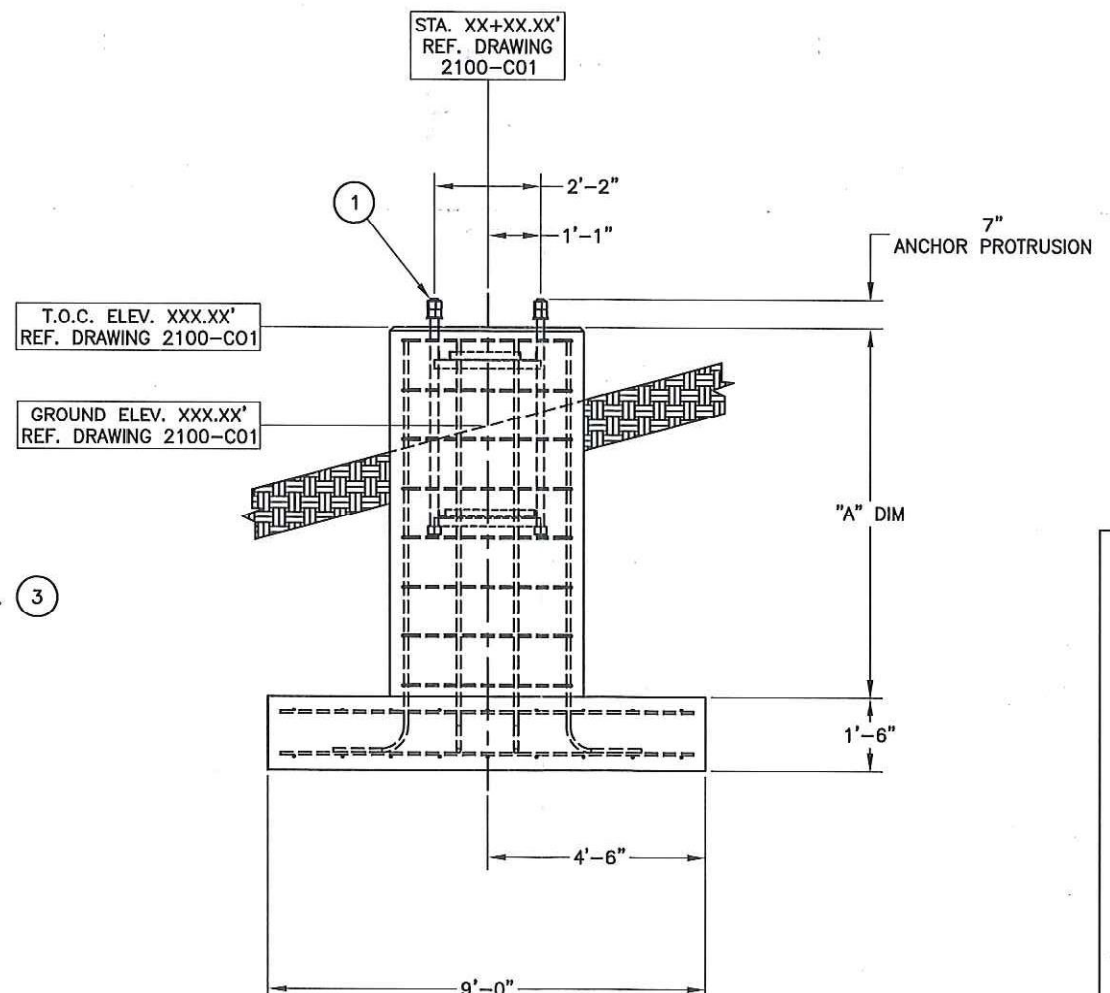
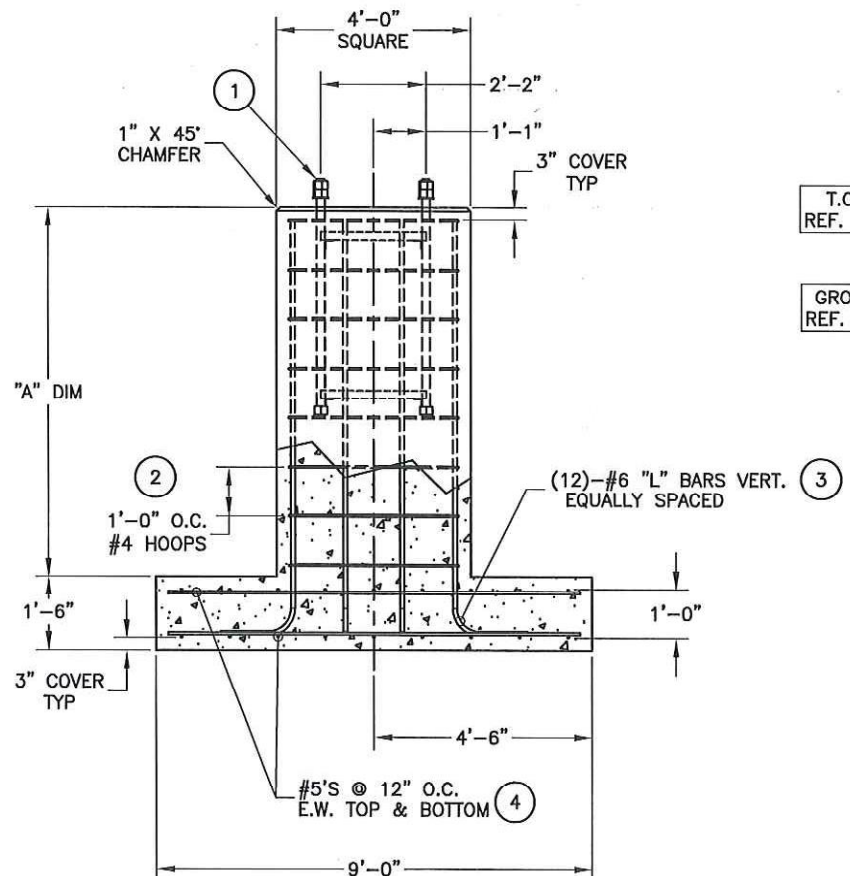
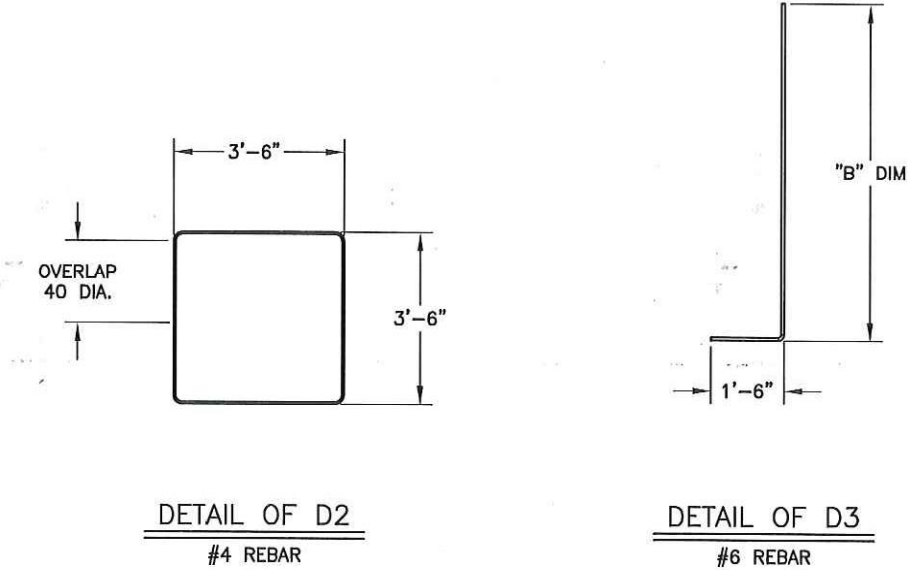
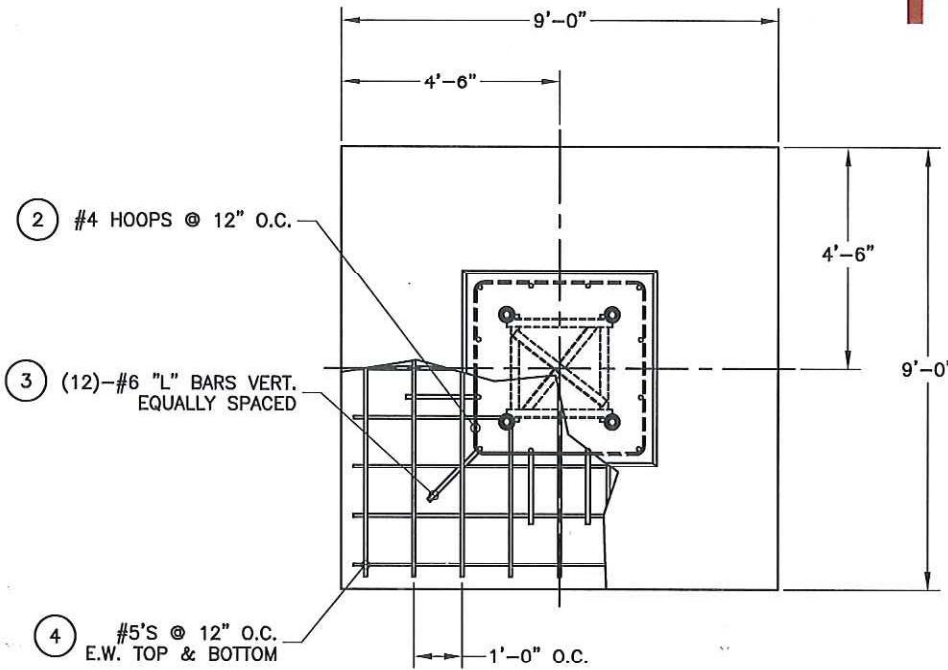
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ISOMETRIC VIEW

BILL OF DRAWINGS					
ITEM NO	PART NO	QTY	DESCRIPTION	WT lbs	
1	2100-C06	1	TOWER FOOTING (9'x9' BASE) TOWERS 1 & 7	-	
1	LP-US3070.029	1	ANCHOR BOLT ASSEMBLY w/ANCHOR CAGE (#2" x 60")	330	
2	D2	(SEE CHART)	REBAR #4, HOOP, 3'-6" x 3'-6", ASTM A615 GR.60	-	
3	D3	12	REBAR #6, "L-BAR" x (SEE CHART), ASTM A615 GR.60	-	
4	K4	36	REBAR #5, x 8'-6", ASTM A615 GR.60	-	

FOOTING TABULATION					
TOWER NO.	PART NO.	"A" DIM (FT)	"B" DIM (FT)	ITEM 2 (QTY)	CONCRETE QTY (YARDS)
T1	2100-C06A	7'-0"	7'-11.3/8"	8	8.65
T7	2100-C06B	6'-6"	7'-5.3/8"	8	8.35



- EXCAVATION & BACKFILL NOTES:**
1. EACH FOOTING EXCAVATION SHOULD TERMINATE IN FIRM, NATURALLY OCCURRING MATERIALS. THE BASE OF ALL EXCAVATIONS SHOULD BE CLEAN, DRY AND FREE OF LOOSE OR UNCOMPACTED FILL. THE EXCAVATIONS SHOULD BE PROTECTED FROM EXTREME TEMPERATURES, PRECIPITATION, AND CONSTRUCTION DISTURBANCES. IT IS RECOMMENDED THAT CONCRETE BE PLACED AS SOON AFTER THE EXCAVATION IS MADE, AS IS PRACTICAL.
  2. ALL FOOTINGS SHALL BE OVER EXCAVATED AND ALL FILL MATERIAL AND/OR SCHIST ROCK SHALL BE REMOVED TO A DEPTH OF AT LEAST 12" INCHES BELOW THE BASE OF THE FOOTING. THE AREA IS THEN BACKFILLED WITH A 12" INCH LAYER OF 3/4"-1 1/2" CRUSHED STONE. THE MATERIAL SHOULD BE REMOVED FOR A DISTANCE OF 5 FEET BEYOND THE OUTERMOST EDGES OF THE FOOTING.
  3. FOR BACKFILL, MUCH OF THE EXISTING ON-SITE SOILS MAY BE USED AS BACKFILL AGAINST THE FOOTINGS. SK DESIGN (GEOTECHNICAL ENGINEERS) SHOULD OBSERVE, TEST, AND APPROVE SOILS USED AS STRUCTURAL FILL. THE BACKFILL AND FILL LIFTS SHOULD BE PLACED IN MAXIMUM 8 TO 12 INCH LOOSE LIFTS AND COMPACTED TO A DRY DENSITY OF AT LEAST 95% OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY. IN GENERAL, THE MOISTURE CONTENT OF THE FILL SHOULD BE WITHIN 5% OF OPTIMUM. AS AN ALTERNATIVE TO THE EXISTING ON-SITE SOILS, CRUSHED ROCK CLASSIFIED AS GP OR GW (ASTM CLASSIFICATION) MAY BE PREFERABLE FOR STRUCTURAL FILL AND BACKFILL. IT IS RECOMMENDED TO USE 3/4"-1" MINUS GRADATION CRUSHED LIMESTONE, PLACED AND COMPACTED AS DESCRIBED ABOVE.

CUSTOMER APPROVAL:		SKYTRANS MFG, LLC	
PRODUCTION APPROVAL:		02N100000K, NH 03229	
G.C. APPROVAL:		JOB NO.:	
TOLERANCES:		DESCRIPTION: TOWER FOOTING (9'x9' BASE) TOWERS 1 & 7	
INVERT ELEVATIONS	±1/8"	±3mm	DRAWN BY: J.PENDLETON
STATION LOCATIONS	±1/8"	±3mm	CHECKED BY: RSG
ANCHOR BOLT LOCATIONS	±1/8"	±3mm	DATE:
TOP OF CONCRETE	±1/8"	±3mm	DATE:
INSIDE WETTED SURFACES	±1/4"	±6mm	THIRD ANGLE PROJECTION
FOOTING SIZE	±1/2"	±12mm	PROJ TYPE: ASSY
			SCALE: 1:24
			SIZE: D
			SHEET NO.: 1 OF 1
			DRAWING NO.-REV.: