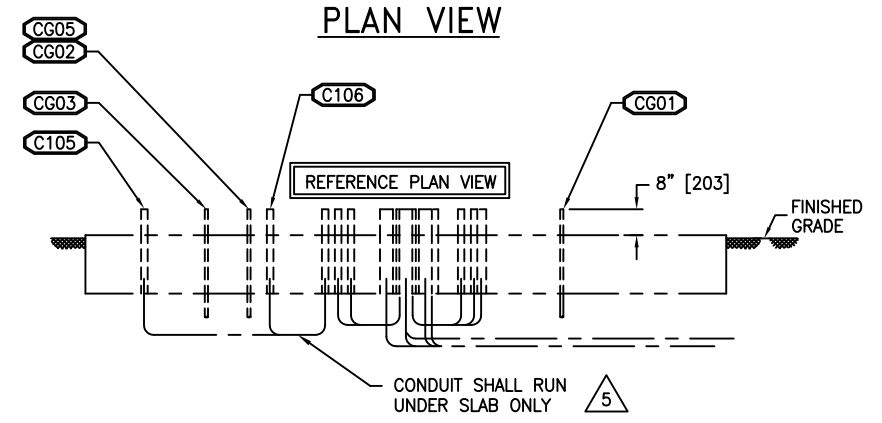
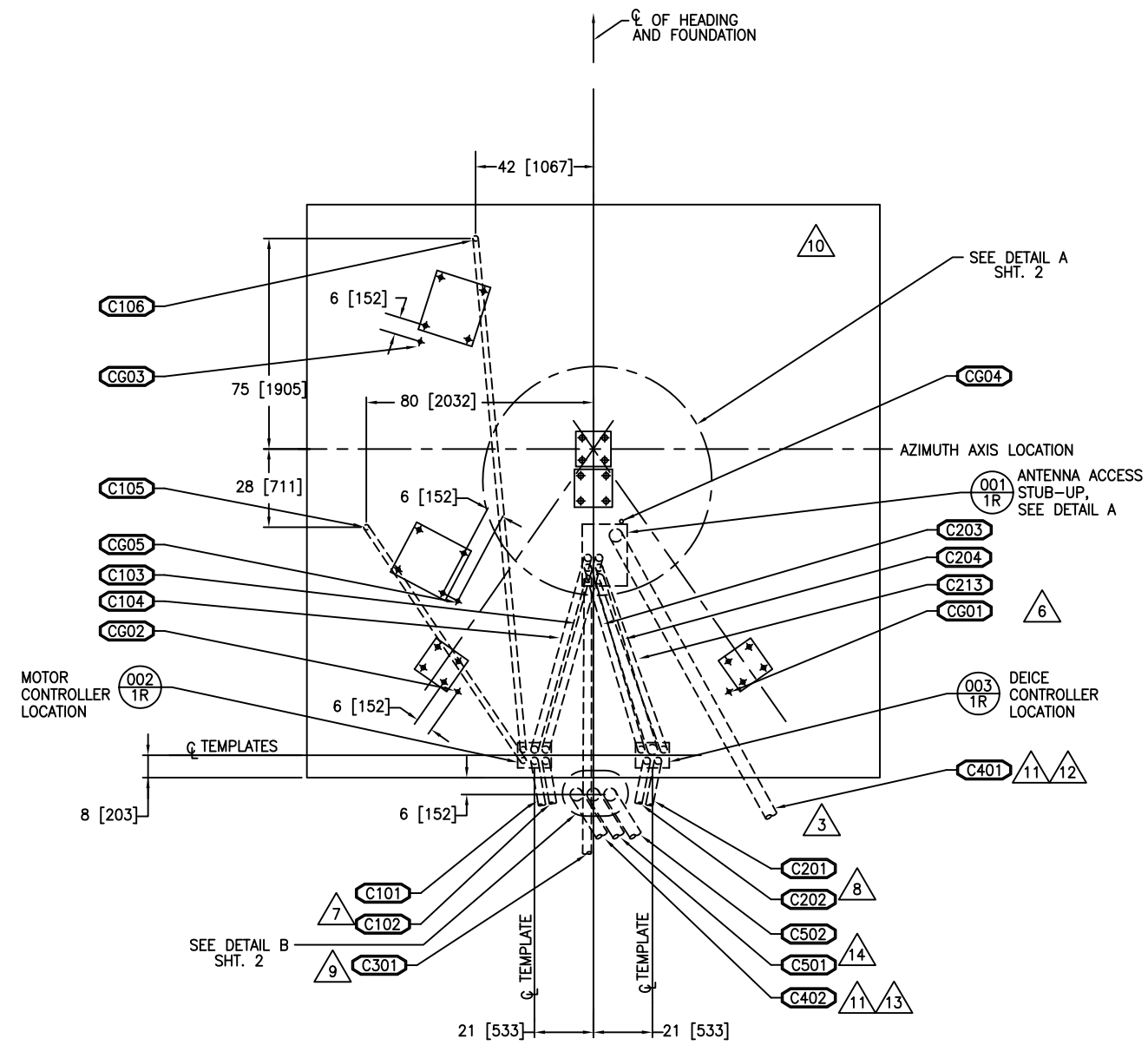


REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	ORIGINAL RELEASE	03/11/99	FSJ/KBS
B	REVISED PER EC# 00-0122	11/20/99	SAH/JED
B1	REVISED PER EC# 03-0047	10/16/02	JRL/KLL
C	EC 04-0478; BUMP ALPHA-NUMERIC REV.	05/26/04	KLL

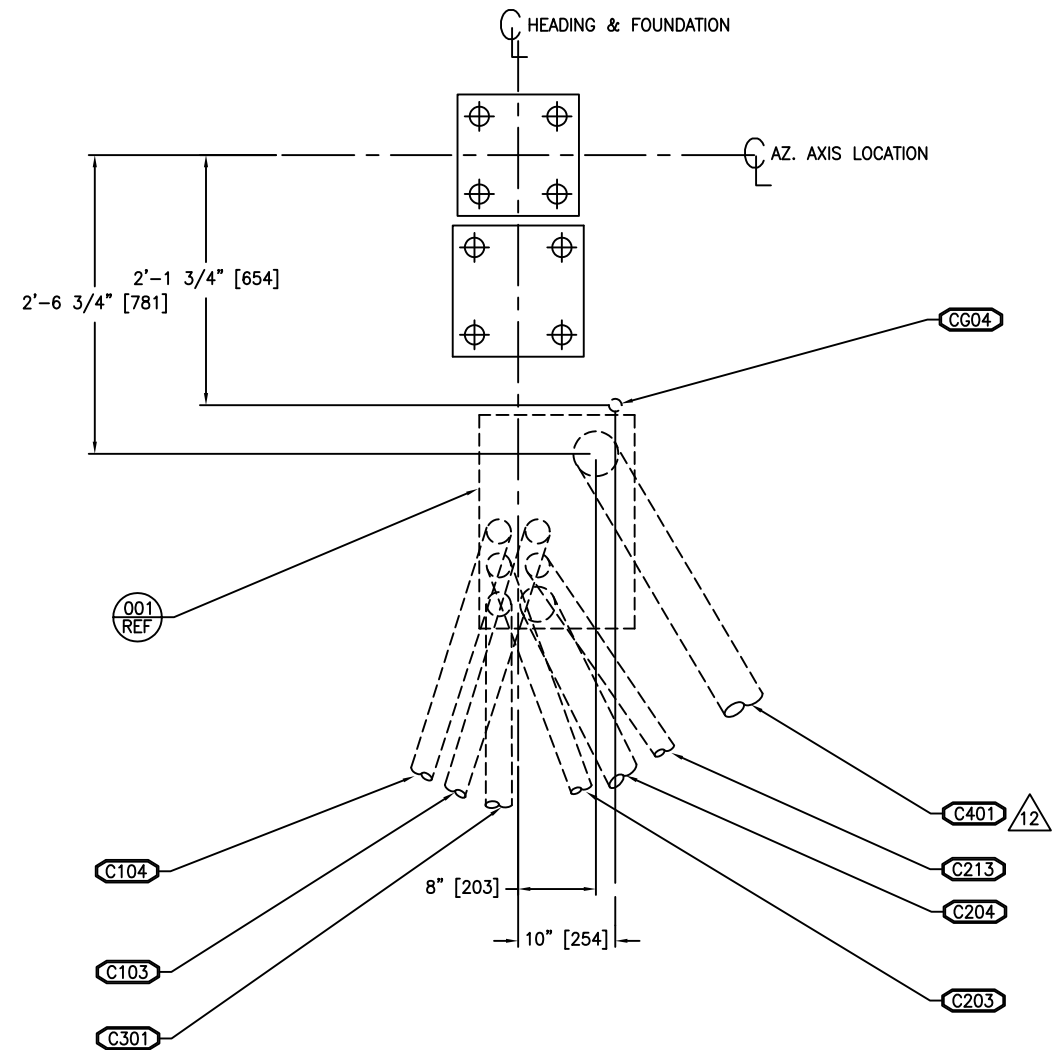


NOTES:

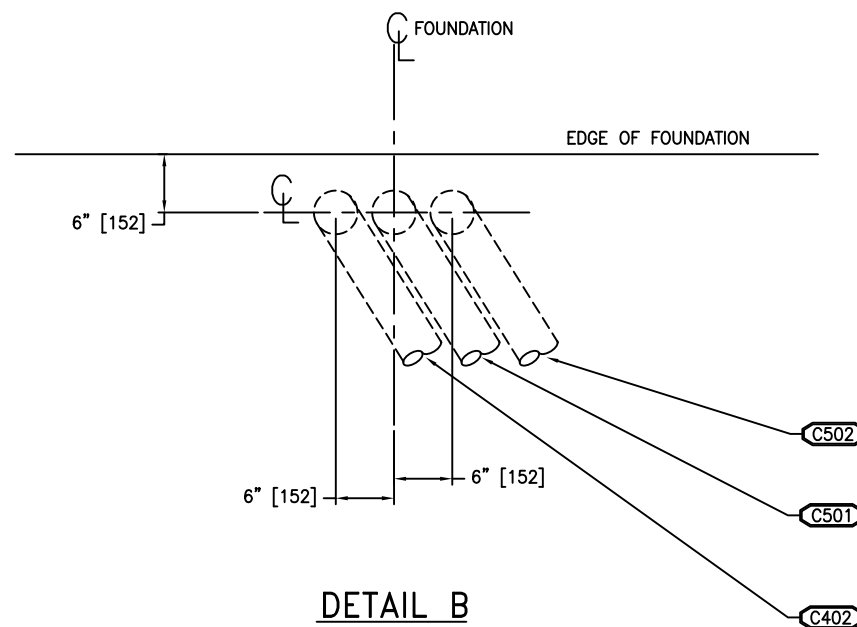
1. COMPLIANCE WITH ALL ELECTRICAL CODES AND THE REQUIRED PERMITS ARE THE RESPONSIBILITIES OF OTHERS.
2. C000 INDICATES CONDUIT ID NUMBER. REFERENCE CONDUIT SCHEDULE FOR SIZE AND DESCRIPTION. ALL PVC CONDUIT (OR TYPE REQUIRED BY LOCAL CODES) IS TO BE SUPPLIED BY OTHERS.
3. CONDUITS SHOWN EXITING THE FOUNDATION MAY DO SO IN THE DIRECTION THAT IS THE MOST CONVENIENT FOR EACH SITE.
4. POWER DISTRIBUTION PANEL(S) AND/OR MAIN POWER DISCONNECTS ARE TO BE SUPPLIED BY OTHERS. VOLTAGE AND FREQUENCY ARE CONTRACT SPECIFIC AS SITE DICTATES.
5. ALL CONDUIT ELBOWS ARE TO BE SWEEPS, 90° LONG ELBOWS THAT ARE PROPERLY SEALED FOR UNDERGROUND USE.
6. CONDUIT STUB-UPS FOR GROUNDING CABLES. TYPICAL 4 PLACES. SITE GROUNDING SYSTEM IS TO BE SUPPLIED BY OTHERS.
7. CONDUITS WITH 100 SERIES I.D. NUMBERS REQUIRED FOR ANTENNA CONTROL. REFER TO CONTRACT POWER REQUIREMENTS FOR DEFINITION OF POWER FEEDERS REQUIRED.
8. CONDUITS WITH 200 SERIES I.D. NUMBERS REQUIRED FOR ELECTRIC ANTENNA DEICING. (REFLECTOR, FEED AND SUBREFLECTOR HEATING WITH PAD MOUNTED DEICE CONTROLLER). REFER TO CONTRACT POWER REQUIREMENTS FOR DEFINITION OF POWER FEEDERS REQUIRED.
9. CONDUITS WITH 300 SERIES I.D. NUMBERS REQUIRED FOR ANCILLARY EQUIPMENT POWER FEEDERS. ANCILLARY EQUIPMENT MAY CONSIST OF ANY OF THE FOLLOWING OPTIONS: RAINBLOWER, OBSTRUCTION LIGHTING, HUB UTILITIES, ETC... REFER TO THE CONTRACT POWER REQUIREMENTS FOR EXACT DEFINITION OF FEEDERS REQUIRED.
10. DIMENSIONS IN [] ARE METRIC (MILLIMETERS). CONDUITS ARE U.S. STANDARD NOMINAL SIZES.
11. CONDUITS WITH 400 SERIES I.D. NUMBERS REQUIRED FOR RX IFL CABLING. RX IFL CABLING MAY CONSIST OF THE FOLLOWING: RX COAX, LNA CONTROL CABLING, DEHYDRATOR PRESSURE TUBING, ETC. REFER TO CONTRACT REQUIREMENTS FOR EXACT DEFINITIONS.
12. C401 REQUIRED FOR RX ONLY SYSTEMS WITH IFL CABLING INSTALLED IN UNDERGROUND CONDUIT. C401 NOT REQUIRED ON TX/RX SYSTEMS. REFER TO STAND PIPE INSTALLATION FOR INTERFACE REQUIREMENTS.
13. C402 REQUIRED FOR TX/RX SYSTEMS WITH IFL CABLING INSTALLED IN UNDERGROUND CONDUIT. C402 NOT REQUIRED FOR RX ONLY SYSTEMS. C402 WILL INTERFACE WITH CABLE TRAY ACROSS PAD TO AZIMUTH AXIS. REFER TO CABLE TRAY INSTALLATION FOR INTERFACE REQUIREMENTS.
14. CONDUITS WITH 500 SERIES I.D. NUMBERS ARE REQUIRED FOR UNDERGROUND TX ELLIPTICAL WAVEGUIDE INSTALLATIONS - ONE WAVEGUIDE RUN PER CONDUIT. REFER TO CONTRACT REQUIREMENTS FOR INSTALLATION OF UNDERGROUND TX WAVEGUIDE. TX WAVEGUIDE WILL INTERFACE WITH CABLE TRAY INSTALLATION ACROSS PAD TO AZIMUTH AXIS. REFER TO CABLE TRAY INSTALLATION FOR INTERFACE REQUIREMENTS.

--- # EA
- EST. WEIGHT -

DO NOT SCALE DRAWING				SATCOM Technologies CONFIDENTIAL AND PROPRIETARY			
UNLESS OTHERWISE SPECIFIED ! INTERPRET DIMENSIONING & TOLERANCING PER ASME Y14.5M-2000. DIMENSIONS ARE IN INCHES. DIMENSIONS SHOWN IN () ARE FOR REFERENCE ONLY. TOLERANCES ARE: FRACTIONS: DECIMALS: ANGLES: DETAILS ± 1/16 .XX ± .03 ± 1° ASSY'S ± 1/8 .XXX ± .005 COMMERCIAL TOLERANCES TO STOCK SIZES APPLY. PART TO BE FREE OF BURRS & SHARP EDGES.		ADDITIONAL APPROVALS	DATE	APPROVALS	DATE	GENERAL DYNAMICS 2600 N. LONGVIEW ST. SATCOM Technologies KILGORE, TX USA 75662-6842 TITLE: FOUNDATION CONDUIT LAYOUT 6/6.3/7 KX 2-POS	
MECHANICAL N/R				DRAWN FS JONES	03/11/99	CODE ID. NO.	REV
STRUCTURAL N/R				CHECKED KB STODDARD	03/15/99	SIZE	D
ELECTRICAL N/R				DESIGNER KB STODDARD	03/15/99	DWG NO.	020524
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DRILL HOLE TOLERANCE (DRILL) .013 to .125=+.005/-0.01 .126 to .250=+.007/-0.03 .251 to .750=+.008/-0.03 .751 to 1.000=+.009/-0.04 1.001 to 2.000=+.012/-0.05	CLEARANCE HOLE TOLERANCE (CHT) +.03125/-0.00000			PROJECT MW CARTER	03/15/99	CONTRACT NO.	11176
				PRODUCT MGR MJ RABENHORST	03/15/99	SHEET	1 OF 2
				DESIGN N/R			



DETAIL A
ANTENNA ACCESS TEMPLATE STUB-UP



DETAIL B

CONDUIT SCHEDULE – FOUNDATION CONDUITS

ID#	SIZE	TERMINATION POINT	ORIGINATION POINT	FILL	NOTES
C101	2" PVC	TEMPLATE AT MOTOR CONTROLLER	CUSTOMER POWER SOURCE	MOTOR CONTROLLER POWER FEEDER	7
C102	2" PVC	TEMPLATE AT MOTOR CONTROLLER	ANTENNA REMOTE CONTROL UNIT	RESOLVER/CONTROL CABLING	7
C103	2" PVC	TEMPLATE AT ANTENNA ACCESS STUB-UP	TEMPLATE AT MOTOR CONTROLLER	ANTENNA CABLING – MOTORS	7
C104	2" PVC	TEMPLATE AT ANTENNA ACCESS STUB-UP	TEMPLATE AT MOTOR CONTROLLER	ANTENNA CABLING – RESOLVERS/LIMITS	7
C105	1 1/2" PVC	AZIMUTH #1 MOTOR LOCATION	TEMPLATE AT MOTOR CONTROLLER	ANTENNA CABLING – AZIMUTH MOTOR	7
C106	1 1/2" PVC	AZIMUTH #2 MOTOR LOCATION	TEMPLATE AT MOTOR CONTROLLER	ANTENNA CABLING – AZIMUTH MOTOR	7
C201	2" PVC	TEMPLATE AT DEICE CONTROLLER	CUSTOMER POWER SOURCE	DEICING POWER FEEDER	8
C202	2" PVC	TEMPLATE AT DEICE CONTROLLER	DEICE REMOTE CONTROL UNIT	DEICING CONTROL CABLES	8
C203	2" PVC	TEMPLATE AT ANTENNA ACCESS STUB-UP	TEMPLATE AT DEICE CONTROLLER	ANTENNA DEICING CABLES	8
C204	3" PVC	TEMPLATE AT ANTENNA ACCESS STUB-UP	TEMPLATE AT DEICE CONTROLLER	ANTENNA DEICING CABLES	8
C213	2" PVC	TEMPLATE AT ANTENNA ACCESS STUB-UP	TEMPLATE AT DEICE CONTROLLER	ANTENNA DEICING CABLES	8
C301	2" PVC	TEMPLATE AT ANTENNA ACCESS STUB-UP	CUSTOMER POWER SOURCE	ANCILLARY POWER FEEDERS	9
C401	4" PVC	TEMPLATE AT ANTENNA ACCESS STUB-UP	CUSTOMER RACK INTERFACE POINT	RX COAX CABLING (R.O. SITES)	11,12
C402	4" PVC	EDGE OF ANTENNA FOUNDATION	CUSTOMER RACK INTERFACE POINT	RX COAX CABLING (RX/TX SITES)	11,13
C501	4" PVC	EDGE OF ANTENNA FOUNDATION	CUSTOMER TX WG INTERFACE	TX1 ELLIPTICAL CABLING	14
C502	4" PVC	EDGE OF ANTENNA FOUNDATION	CUSTOMER TX WG INTERFACE	TX2 ELLIPTICAL CABLING	14
CG01	1" PVC	GROUNDING SYSTEM	ANTENNA MECHANICAL INTERFACE	GROUNDING CABLE	6
CG02	1" PVC	GROUNDING SYSTEM	ANTENNA MECHANICAL INTERFACE	GROUNDING CABLE	6
CG03	1" PVC	GROUNDING SYSTEM	ANTENNA MECHANICAL INTERFACE	GROUNDING CABLE	6
CG04	1" PVC	GROUNDING SYSTEM	ANTENNA MECHANICAL INTERFACE	GROUNDING CABLE	6
CG05	1" PVC	GROUNDING SYSTEM	ANTENNA MECHANICAL INTERFACE	GROUNDING CABLE	6

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CODE ID. NO.	SIZE	DWG NO.	REV		
1GD22	D	020524	C		
SCALE: 1/10	CONTRACT NO. 11176	SHEET 2	OF 2		