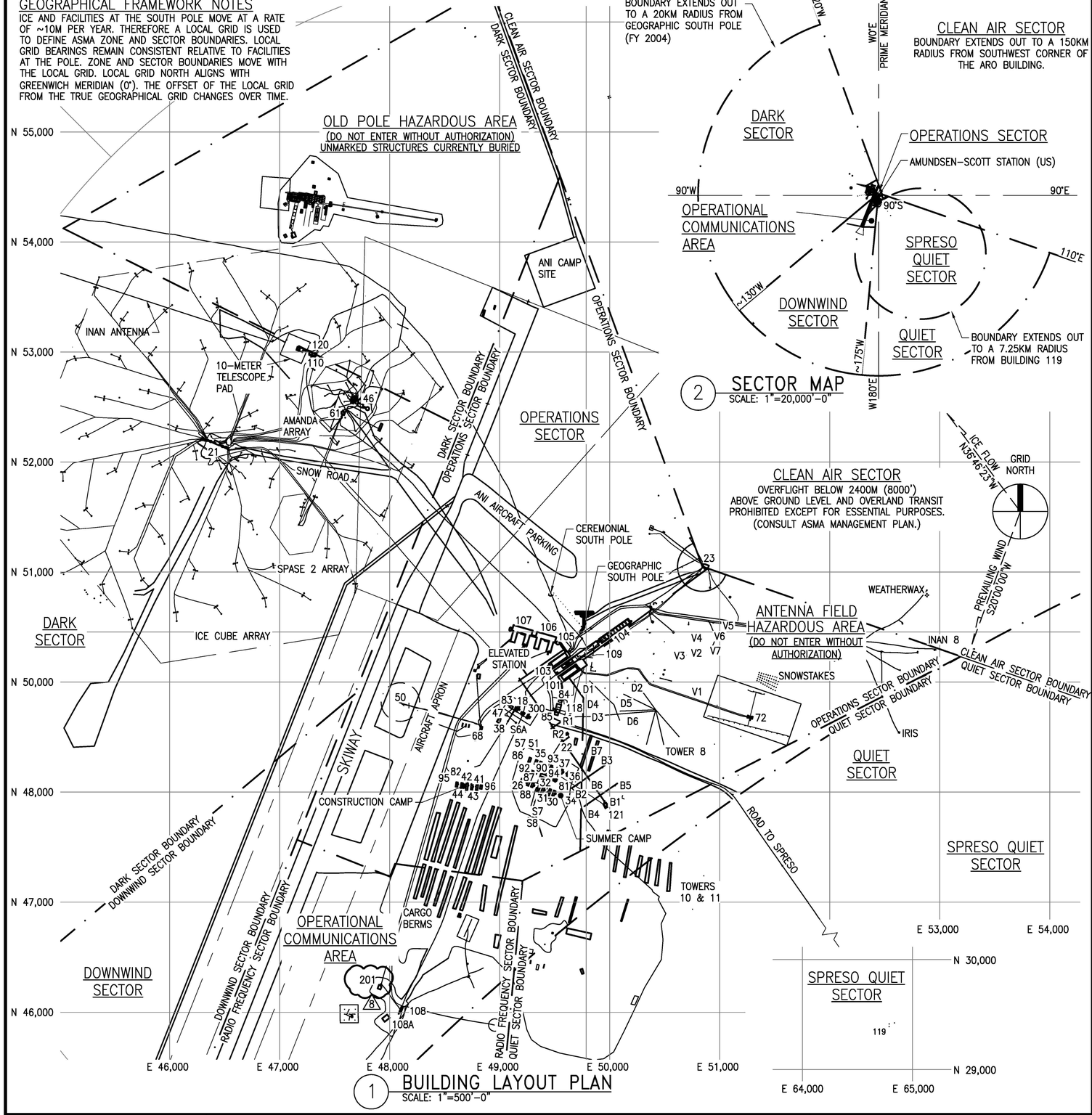
GEOGRAPHICAL FRAMEWORK NOTES

ICE AND FACILITIES AT THE SOUTH POLE MOVE AT A RATE OF ~10M PER YEAR. THEREFORE A LOCAL GRID IS USED TO DEFINE ASMA ZONE AND SECTOR BOUNDARIES. LOCAL GRID BEARINGS REMAIN CONSISTENT RELATIVE TO FACILITIES AT THE POLE. ZONE AND SECTOR BOUNDARIES MOVE WITH THE LOCAL GRID. LOCAL GRID NORTH ALIGNS WITH GREENWICH MERIDIAN (0°). THE OFFSET OF THE LOCAL GRID FROM THE TRUE GEOGRAPHICAL GRID CHANGES OVER TIME.



1 BUILDING LAYOUT PLAN
SCALE: 1"=500'-0"

BOUNDARY EXTENDS OUT TO A 20KM RADIUS FROM GEOGRAPHIC SOUTH POLE (FY 2004)

2 SECTOR MAP
SCALE: 1"=20,000'-0"

CLEAN AIR SECTOR

BOUNDARY EXTENDS OUT TO A 150KM RADIUS FROM SOUTHWEST CORNER OF THE ARO BUILDING.

CLEAN AIR SECTOR

OVERFLIGHT BELOW 2400M (8000') ABOVE GROUND LEVEL AND OVERLAND TRANSIT PROHIBITED EXCEPT FOR ESSENTIAL PURPOSES. (CONSULT ASMA MANAGEMENT PLAN.)

BUILDINGS/STRUCTURES

18 DO NOT FREEZE JAMESWAY
19 AIR SHACK
21 ICE CUBE LABORATORY
22 POLAR HAVEN
23 ATMOSPHERIC RESEARCH OBSERVATORY
24 FUTURE CARA II
25 POWER DISTRIBUTION BUILDING
26 SUMMER CAMP LOUNGE SMOKING
27 SUMMER CAMP HEAD
28 POWER JUNCTION BOX/XFMR VAULT
29 TRANSFORMER BUILDING
31 BERTHING JAMESWAY J-7
32 BERTHING JAMESWAY J-8
33 BERTHING JAMESWAY J-9
35 BERTHING JAMESWAY J-2
36 BERTHING JAMESWAY J-4
37 BERTHING JAMESWAY J-3
38 HEAD MODULE CHADES (BURIED)
39 321 MODULE (MOBILE BUILDING)
40 HAZ SHACK (MOBILE BUILDING)
41 CONSTRUCTION JAMESWAY/CARPENTER SHOP
42 CONSTRUCTION JAMESWAY/OFFICE
43 CONSTRUCTION JAMESWAY/ELEC MECH SHOP
44 CONSTRUCTION JAMESWAY/PLUMBING SHOP
46 MAPO/DASI/VIPER
49 MOBILE POWER PLANT NO 1 (MOBILE BUILDING)
51 BERTHING HYPERTAT NO 2
54 POWER PLANT NO 2 (MOBILE BUILDING)
55 FUEL PUMP SHACK (MOBILE BUILDING)
56 RELCO TRAILER (MOBILE BUILDING)
57 BERTHING HYPERTAT NO 1
58 PAX TERMINAL (MOBILE BUILDING)
59 UNIVERSITY OF MARYLAND SHACK (MOBILE BL)
60 WATER WELL BUILDING
61 DARK SECTOR ELECTRICAL SUBSTATION
62 SUMMER CAMP ICE PALACE
63 ELECTRICAL SUBSTATION 'A' (BIO ARCH)
64 EMERGENCY GENERATOR BUILDING
66 PALM SHACK (MOBILE BUILDING)
68 ELECTRICAL SUBSTATION 'C' (SUMMER CAMP)
69 POWER PANEL BUILDING
70 HAZARDOUS STORAGE VAN
72 SUPERDARN
73 MOBILE POWER PLANT NO 3 (MOBILE BL)
74 MOBILE POWER PLANT NO 4 (MOBILE BL)
76 SOAR JAMESWAY
77 SPACE JAMESWAY
78 CARGO OFFICE
79 METEOR RADAR SHACK (MOBILE BUILDING)
80 COMMUNICATIONS HUB BUILDING
81 SUMMER CAMP WEIGHT ROOM
82 CONSTRUCTION JAMESWAY/ELEC JAMESWAY
83 CARGO FACILITY
84 STORAGE ON CARGO LINE
85 BALLOON INFLATION TOWER
86 BERTHING JAMESWAY J-1
87 BERTHING JAMESWAY J-11
88 BERTHING JAMESWAY J-10
89 ELECTRICAL SUBSTATION "D"
90 HEAD MODULE
92 NON SMOKING LOUNGE
93 NEW BERTHING JAMESWAY J-12
94 NEW BERTHING JAMESWAY J-13
95 THE BARN (MOBILE BUILDING)
96 CARPENTER SHOP ANNEX
101 GARAGE SHOPS
102 VEHICLE REFUELING MODULE (VFM)
103 POWER PLANT
104 FUEL TRANS FOR PUMP HOUSE
105 VERTICAL TOWER
106 ELEVATED STATION (POD "A")
107 ELEVATED STATION (POD "B")
108 RF BUILDING
108A SKYNET
109 LOGISTICS ARCH
109 LOGISTICS FACILITY
110 DARK SECTOR LABORATORY
111 WATER WELL R2
112 GARAGE SHOP ARCH
113 FUEL PUMPHOUSE
114 POWER PLANT
115 WATER/SEWER TUNNEL
116 AIRCRAFT FUEL MODULE
117 EMERGENCY FUELING MODULE
118 CRYOGEN-BALLOON INFLATION
119 SPRESO
120 10M TELESCOPE
121 RODWELL 3
201 SPTR II
300 BOOZE BARN (8)

WATER WELLS/SEWER BULBS

	SEWER YEARS	WATER YEARS
R1	1992-2002	
R2	1992-2002	2003-2009
B1	2003-2009	2010-2016
B5	2010-2016	2017-2023
B4	2017-2023	2024-2030
B6	2024-2030	2031-2037
B3	2031-2037	2038-2044
B2	2038-2044	2045-2051
B7	2045-2051	
R3		2013-2020

VAULTS

V1 ABANDONED (2004)
V2 ABANDONED
V3 ABANDONED
V4 ABANDONED
V5 A-111-S
V6 A-102-S
V7 ABANDONED
V8 TRANSITION CABLE VAULT (2005)

SUMMER CAMP SEWER OUTFALLS

S1 ABANDONED SUMP (YEAR TBD)
S2 ABANDONED SUMP 1995
S3 ABANDONED SUMP 1991
S4 ABANDONED SUMP 1997
S5 ABANDONED SUMP 1997
S6 ABANDONED SUMP 2002
S7 CHADES AND ELEVATED DORM SUMP
S8 EMERGENCY/FUTURE SUMP
S9 PRESENT SUMP 1998

TEMPORARY BUILDINGS

T1 LINEN STORAGE

DOME SEWER OUTFALLS

D1 1975-1980 SUMP (ABANDONED)
D2 1980-1983 SUMP (ABANDONED)
D3 1983-1988 SUMP (ABANDONED)
D4 SUMP (ABANDONED)
D5 EMERGENCY/FUTURE SUMP
D6 PRESENT SUMP - 1997

INCHES 1 2 / 1 2 3 4 5 6 CENTIMETERS

NATIONAL SCIENCE FOUNDATION
OFFICE OF POLAR PROGRAMS
WASHINGTON, D.C. NSF
CONTRACT OPP: 0000373

REVISION LOG

REV.	DATE	DESCRIPTION	DFTG.	APPD.
8		2012-2013 AS-BUILT	RJT	
7	3/29/2012	2011-2012 AS-BUILT	RJT	CP
6	11/9/2011	2010-2011 AS-BUILT	RJT	CP
5	1/20/2011	2009-2010 AS-BUILT	RJT	CP
4	11/12/2009	2008-2009 AS-BUILT	RJT	CP
3	10/3/2008	2007-2008 AS-BUILT	RJT	CP
2	9/4/2007	2006-2007 AS-BUILT	RJT	RG

SOUTH POLE STATION
STATION SITE PLANS
MASTER AS-BUILT
CIVIL

7400 South Tucson Way
Centennial, Colorado
80112-3938 USA
303-790-8606
800-688-8606

ASC ANTARCTIC SUPPORT CONTRACT

PROJECT NUMBER:
FILE NAME: SPSSSPC-102-R8
DESIGNED BY: C.PALMER
DRAWN BY: R.TURNER
DATE CREATED: 7/6/2005
SHEET TITLE: OVERALL BUILDING LAYOUT PLAN
SHEET NUMBER: C-102