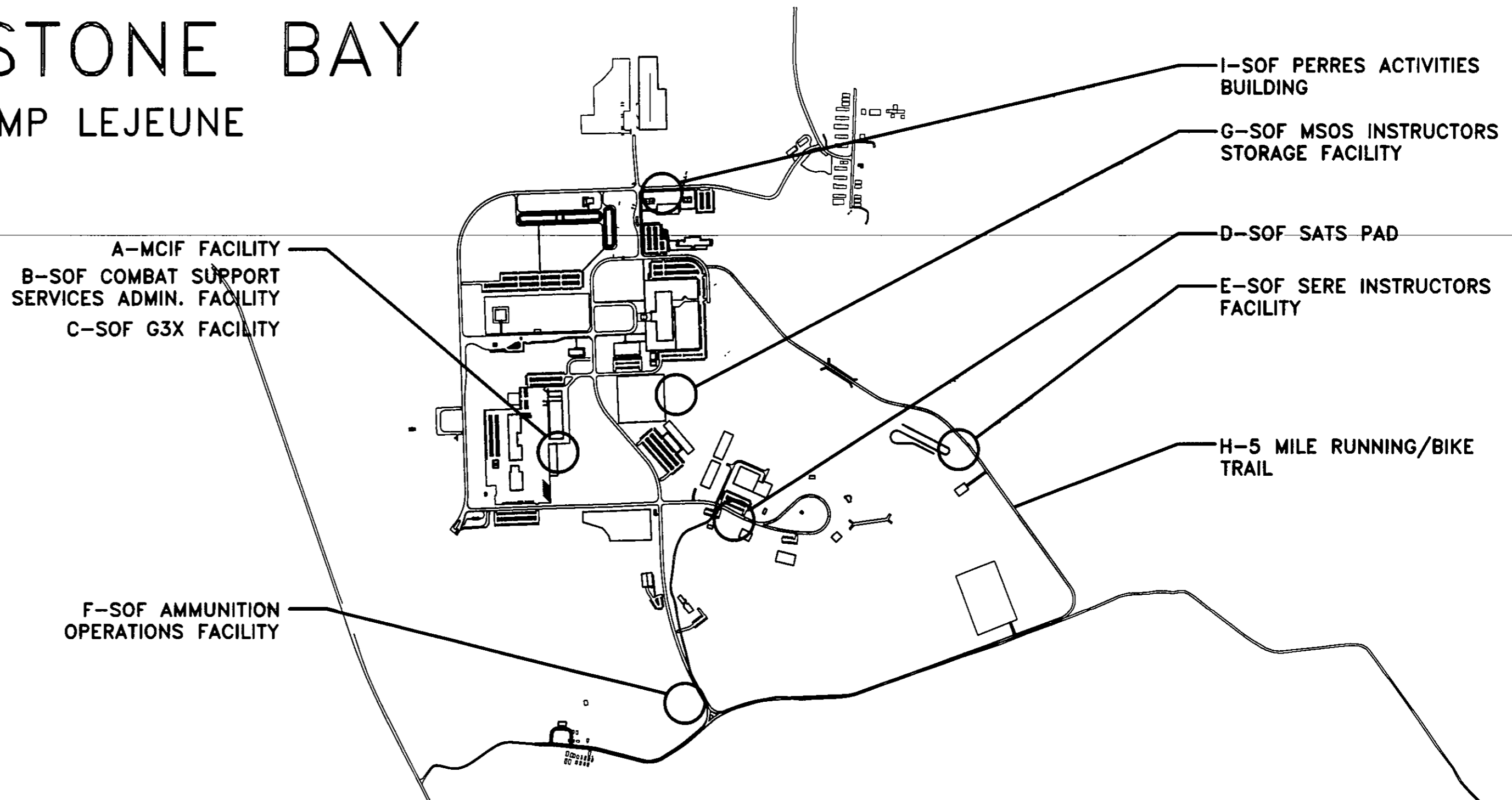


CONSTRUCT MARSOC FACILITIES, STONE BAY

MARINE CORPS BASE CAMP LEJEUNE

PROJECT 11-0132

SYM	REVISIONS	DATE APPROVED



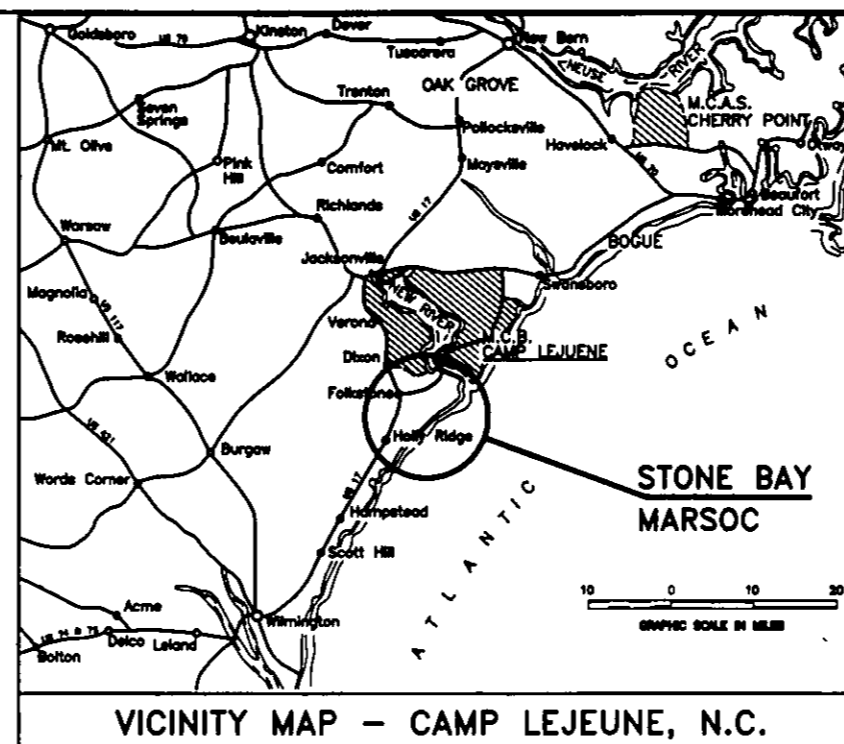
SITE MAP N.T.S.

ARCHITECTURAL SYMBOLS LEGEND

	NORTH INDICATOR		INTERIOR ELEVATION REFERENCE; LETTER INDICATES DIRECTION OF VIEW; NUMBER INDICATES ELEVATION VIEW SHEET FROM WHICH ELEVATION IS DRAWN
	COLUMN REFERENCE GRID		INDICATES LEVEL LINE, CONTROL POINT, OR DATUM
	KEY NOTE DESIGNATION; NO. KEY NOTE LISTED		DOOR DESIGNATION MARK; SEE DOOR SCHEDULE
	ELEVATION REFERENCE; LETTER INDICATES DIRECTION OF VIEW; NUMBER INDICATES ELEVATION VIEW SHEET FROM WHICH ELEVATION IS DRAWN		WINDOW DESIGNATION MARK; SEE DOOR SCHEDULE
	PARTITION TYPE DESIGNATION; SEE DOOR SCHEDULE		REVISION DESIGNATION; MUST CURRENT REVISION NUMBER CIRCLED ON DRAWING; NO. REVISION LIST IN TITLE BLOCK
	LARGE SCALE PLAN OR DETAIL REFERENCE; LETTER INDICATES DETAIL; NUMBER INDICATES AREA DETAIL OR ENLARGED SHEET FROM WHICH DETAIL IS DRAWN		GENERAL NOTE DESIGNATION; NO. GENERAL NOTE LISTED
	BUILDING SECTION OR SECTIONAL DETAIL REFERENCE; LETTER INDICATES DIRECTION OF VIEW; NUMBER INDICATES SECTION SHEET FROM WHICH SECTION IS DRAWN		ROOM NAME DESIGNATION; ROOM NAME; ROOM NUMBER; SQUARE FOOTAGE

ARCHITECTURAL ABBREVIATIONS

ARC	ADJUSTABLE PANEL CEILING EXT.	EX	EXTERIOR	OC	ON CENTER
ADJ.	ADJACENT	F.D.	FLOOR DRAIN	OH	OVERHEAD
AFF	ABOVE FINISHED FLOOR	FDN	FOUNDATION	OND	OVERHEAD OPENING
AL	ALUMINUM	F.E.	FIRE EXTINGUISHER	OPND.	OPENING
ALT.	ALTERNATE	F.F.E.	FINISHED FLOOR ELEVATION	PART.	PARTITION
ATTN.	ATTENUATION	FL	FLOOR	P.E.M.B.	PRE-ENGINEERED METAL BLDG.
BD.	BOARD	FT	FIRE RETARDANT TREATED	PC	PLASTERING CONTRACTOR
BT.	BUTYRINOUS	FTG	FOOTING	PL	PLATE
BLKO.	BLOCKING	FUR.	FURRING	P.	PAINTED
BLKT.	BLANKET	GA.	GAUGE	REF.	REFRIGERATOR
BM.	BEAM	GALV.	GALVANIZED	REDD.	REQUIRED
BOP.	BOTTOM OF PLATE	GB	GRAB BAR	RH.	ROOM OPENING
CAB.	CABINET	GC	GENERAL CONTRACTOR	RO.	ROUGH OPENING
CB	CATCH BASIN	GL.	GLASS	SF	SQUARE FEET
C	CENTERLINE	GYP.BD.	GYPSSUM BOARD	SM.	SHIMLAR
CJ	CEILING JOINT	HW	HARDWARE	SPCS.	SPECIFICATIONS
CLR.	CLEAR	HM	HOLLOW METAL	STD.	STANDARD
CLG.	CEILING	HT.	HICHT	STL.	STEEL
CMU	CONCRETE MASONRY UNIT	HVAC	HEATING, VENTILATION, AIR CONDITIONING	STRUCT.	STRUCTURE/STRUCTURAL
COL.	COLUMN	INT.	INTERIOR	SUSP.	SUSPENDED
CONC.	CONCRETE	INSUL.	INSULATION	TC	TOP CURB
CONSTR.	CONSTRUCTION	INV.	INVERT	TO	TOP GRATE
CONT.	CONTINUOUS	JNT.	JOINT	TEMP.	TEMPERED
CONTR.	CONTRACTOR	LAV.	LAVATORY	THK.	THICK
CT	CERAMIC TILE	LP	LOW POINT	TJ	TOP OF JOIST
DWG	DRAWING	MANUF.	MANUFACTURER	TM	TOP OF MASONRY
EA.	EACH	MC	MECHANICAL CONTRACTOR	TOP	TOP OF PLATE
EC	ELECTRICAL CONTRACTOR	MH.	MANHOLE	TOS	TOP OF SLAB
EF	EXHAUST FAN	MECH.	MECHANICAL	TOW	TOP OF WALL
ELEC.	ELECTRICAL	MIN.	MINIMUM	TPP.	TYPICAL
ENCL.	ENCLOSURE	MS.	MASONRY OPENING	T/S	TOP OF STEEL
EQ	EQUIPMENT	MTD	MOUNTED	TS	TUBE STEEL
EQ C	ELECTRIC CONTRACTOR	MTL	METAL	VERT.	VERTICAL
EXT.	EXISTING	MC	METAL NOT IN CONTACT	VF	VERTIFY IN FIELD
EXP	EXPOSED	N.T.S.	NOT TO SCALE	WD	WOOD
EXP JT	EXPANSION JOINT			WV	WIND
				WV	WELDED WIRE FABRIC
				W/	WITH



T-1

MARINE CORPS BASE

CAMP LEJEUNE, NORTH CAROLINA

CONSTRUCT MARSOC FACILITIES, STONE BAY

DESIGN DR. B. MARSHBURN
 APPROVED: PWD OR ORC DATE
 SATISFACTORY TO: DATE

TITLE SHEET AND SITMAP

NAVAC DRAWING NO. 60009097
 CONECT. CONTR. NO. 11-0132
 SHEET 1 OF 188

CONSTRUCT MARSOC FACILITIES, STONE BAY

MARINE CORPS BASE CAMP LEJEUNE
PROJECT 11-0132

INDEX OF DRAWINGS

SYM	REVISIONS	DATE APPROVED

NAVFAC NO.	SHEET NO.	TITLE
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60009097	T-1	1/126	TITLE SHEET AND SITE MAP
60009098	T-2	2/126	TITLE SHEET AND INDEX OF DRAWINGS

60009223	LS-1	LS-1	LIFE SAFETY PLAN AND CODE SUMMARY
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GENERAL INFORMATION

60009099	G-001	3/126	CIVIL OVERALL SITE INDEX PLAN
60009100	G-1	4/126	CIVIL SITE DETAILS
60009101	G-2	5/126	CIVIL PEDESTRIAN WALKWAY DETAILS
60009102	G-3	6/126	CIVIL GRADING DETAILS
60009103	G-4	7/126	CIVIL UTILITY DETAILS
60009104	G-5	8/126	CIVIL SEPTIC SYSTEM DETAILS
60009105	G-6	9/126	STRUCTURAL GENERAL NOTES, DETAILS, SECTIONS
60009106	G-7	10/126	PLUMBING SCHEDULES AND DETAILS
60009107	G-8	11/126	MECHANICAL SCHEDULES AND LEGEND
60009108	G-9	12/126	MECHANICAL DETAILS
60009109	G-10	13/126	ELECTRICAL SYMSBOLS AND SCHEDULES
60009110	G-11	14/126	ELECTRICAL DETAILS
60009111	G-12	15/126	ELECTRICAL LIGHTING FIXTURE DETAILS
60009112	G-13	16/126	ELECTRICAL SERVICE DETAILS

A - MCIF FACILITY

60009113	C-1	17/126	SITE LAYOUT AND UTILITY PLAN
60009114	C-2	18/126	SITE GRADING PLAN
60009115	S-1	19/126	STRUCTURAL FOUNDATION PLAN
60009116	A-1	20/126	FLOOR, REFLECTED CEILING, AND ROOF PLAN
60009117	A-2	21/126	ELEVATIONS, PLANS, AND DETAILS
60009118	A-3	22/126	BUILDING AND WALL SECTIONS
60009119	A-4	23/126	WALL SECTIONS AND DETAILS
60009120	A-5	24/126	SCHEDULES AND NOTES
60009121	P-1	25/126	FLOOR PLAN AND SCHEMATICS
60009122	M-1	26/126	MECHANICAL FLOOR PLAN
60009123	E-1	27/126	ELECTRICAL LIGHTING PLAN
60009124	E-2	28/126	ELECTRICAL POWER PLAN
60009125	E-3	29/126	ELECTRICAL SITE PLAN

B - SOF COMBAT SUPPORT SERVICES ADMINISTRATIVE FACILITY

60009126	C-1	30/126	SITE LAYOUT AND UTILITY PLAN
60009127	C-2	31/126	SITE GRADING PLAN
60009128	S-1	32/126	STRUCTURAL FOUNDATION PLAN
60009129	A-1	33/126	FLOOR, REFLECTED CEILING, AND ROOF PLAN
60009130	A-2	34/126	ELEVATIONS, PLANS, AND DETAILS
60009131	A-3	35/126	BUILDING AND WALL SECTIONS
60009132	A-4	36/126	WALL SECTIONS AND DETAILS
60009133	A-5	37/126	SCHEDULES AND NOTES
60009134	P-1	38/126	FLOOR PLAN AND SCHEMATICS
60009135	M-1	39/126	MECHANICAL FLOOR PLAN
60009136	E-1	40/126	ELECTRICAL LIGHTING PLAN
60009137	E-2	41/126	ELECTRICAL POWER PLAN
60009138	E-3	42/126	ELECTRICAL SITE PLAN

C - SOF G3X FACILITY

60009139	C-1	43/126	SITE LAYOUT AND UTILITY PLAN
60009140	C-2	44/126	SITE GRADING PLAN
60009141	S-1	45/126	STRUCTURAL FOUNDATION PLAN
60009142	A-1	46/126	FLOOR, REFLECTED CEILING, AND ROOF PLAN
60009143	A-2	47/126	ELEVATIONS, PLANS, AND DETAILS
60009144	A-3	48/126	BUILDING AND WALL SECTIONS
60009145	A-4	49/126	WALL SECTIONS AND DETAILS
60009146	A-5	50/126	SCHEDULES AND NOTES
60009147	P-1	51/126	FLOOR PLAN AND SCHEMATICS
60009148	M-1	52/126	MECHANICAL FLOOR PLAN
60009149	E-1	53/126	ELECTRICAL LIGHTING PLAN
60009150	E-2	54/126	ELECTRICAL POWER PLAN
60009151	E-3	55/126	ELECTRICAL SITE PLAN

D - SOF SATS PAD

60009152	C-1	56/126	SITE LAYOUT AND GRADING PLAN
60009153	C-2	57/126	FOUNDATION PLAN, SECTION AND DETAILS
60009154	E-1	58/126	ELECTRICAL SITE PLAN

E - SOF SERE INSTRUCTORS FACILITY

60009155	C-1	59/126	SITE LAYOUT AND UTILITY PLAN
60009156	C-2	60/126	SITE GRADING PLAN
60009157	C-3	61/126	OFF-SITE PARKING
60009158	S-1	62/126	STRUCTURAL FOUNDATION PLAN
60009159	A-1	63/126	FLOOR, REFLECTED CEILING, AND ROOF PLAN
60009160	A-2	64/126	ELEVATIONS, PLANS, AND DETAILS
60009161	A-3	65/126	BUILDING AND WALL SECTIONS
60009162	A-4	66/126	WALL SECTIONS AND DETAILS
60009163	A-5	67/126	SCHEDULES AND NOTES
60009164	A-6	68/126	MILLWORK DETAILS
60009165	P-1	69/126	FLOOR PLAN AND SCHEMATICS
60009166	M-1	70/126	MECHANICAL FLOOR PLAN
60009167	E-1	71/126	ELECTRICAL LIGHTING PLAN
60009168	E-2	72/126	ELECTRICAL POWER PLAN
60009169	E-3	73/126	ELECTRICAL SITE PLAN

F - SOF AMMUNITION OPERATIONS FACILITY

60009170	C-1	74/126	SITE LAYOUT AND UTILITY PLAN
60009171	C-2	75/126	SITE GRADING PLAN
60009172	C-3	76/126	OFF-SITE UTILITY PLAN AND PROFILE
60009173	S-1	77/126	STRUCTURAL FOUNDATION PLAN
60009174	A-1	78/126	FLOOR, REFLECTED CEILING, AND ROOF PLAN
60009175	A-2	79/126	ELEVATIONS, PLANS, AND DETAILS
60009176	A-3	80/126	BUILDING AND WALL SECTIONS
60009177	A-4	81/126	WALL SECTIONS AND DETAILS
60009178	A-5	82/126	SCHEDULES AND NOTES
60009179	P-1	83/126	FLOOR PLAN AND SCHEMATICS
60009180	M-1	84/126	MECHANICAL FLOOR PLAN
60009181	E-1	85/126	ELECTRICAL LIGHTING PLAN
60009182	E-2	86/126	ELECTRICAL POWER PLAN
60009183	E-3	87/126	ELECTRICAL SITE PLAN

G - SOF MSOS INSTRUCTORS STORAGE FACILITY

60009184	C-1	88/126	SITE LAYOUT AND UTILITY PLAN
60009185	C-2	89/126	SITE GRADING PLAN
60009186	S-1	90/126	STRUCTURAL FOUNDATION PLAN
60009187	A-1	91/126	FLOOR, REFLECTED CEILING, AND ROOF PLAN
60009188	A-2	92/126	ELEVATIONS, PLANS, AND DETAILS
60009189	A-3	93/126	BUILDING AND WALL SECTIONS
60009190	A-4	94/126	WALL SECTIONS AND DETAILS
60009191	A-5	95/126	SCHEDULES AND NOTES
60009192	P-1	96/126	FLOOR PLAN AND SCHEMATICS
60009193	M-1	97/126	MECHANICAL FLOOR PLAN
60009194	E-1	98/126	ELECTRICAL LIGHTING PLAN
60009195	E-2	99/126	ELECTRICAL POWER PLAN
60009196	E-3	100/126	ELECTRICAL SITE PLAN


H - 5 MILES RUNNING/BIKE TRAILS

60009197	C-1	101/126	ENLARGED PERIMETER TRAIL PLAN
60009198	C-2	102/126	ENLARGED PERIMETER TRAIL PLAN
60009199	C-3	103/126	ENLARGED PERIMETER TRAIL PLAN
60009200	C-4	104/126	ENLARGED PERIMETER TRAIL PLAN
60009201	C-5	105/126	ENLARGED PERIMETER TRAIL PLAN
60009202	C-6	106/126	ENLARGED PERIMETER TRAIL PLAN
60009203	C-7	107/126	ENLARGED PERIMETER TRAIL PLAN
60009204	C-8	108/126	ENLARGED PERIMETER TRAIL PLAN
60009205	C-9	109/126	ENLARGED PERIMETER TRAIL PLAN
60009206	C-10	110/126	ENLARGED PERIMETER TRAIL PLAN
60009207	C-11	111/126	ENLARGED PERIMETER TRAIL PLAN
60009208	C-12	112/126	ENLARGED PERIMETER TRAIL PLAN
60009209	C-13	113/126	PERIMETER TRAIL PROFILES

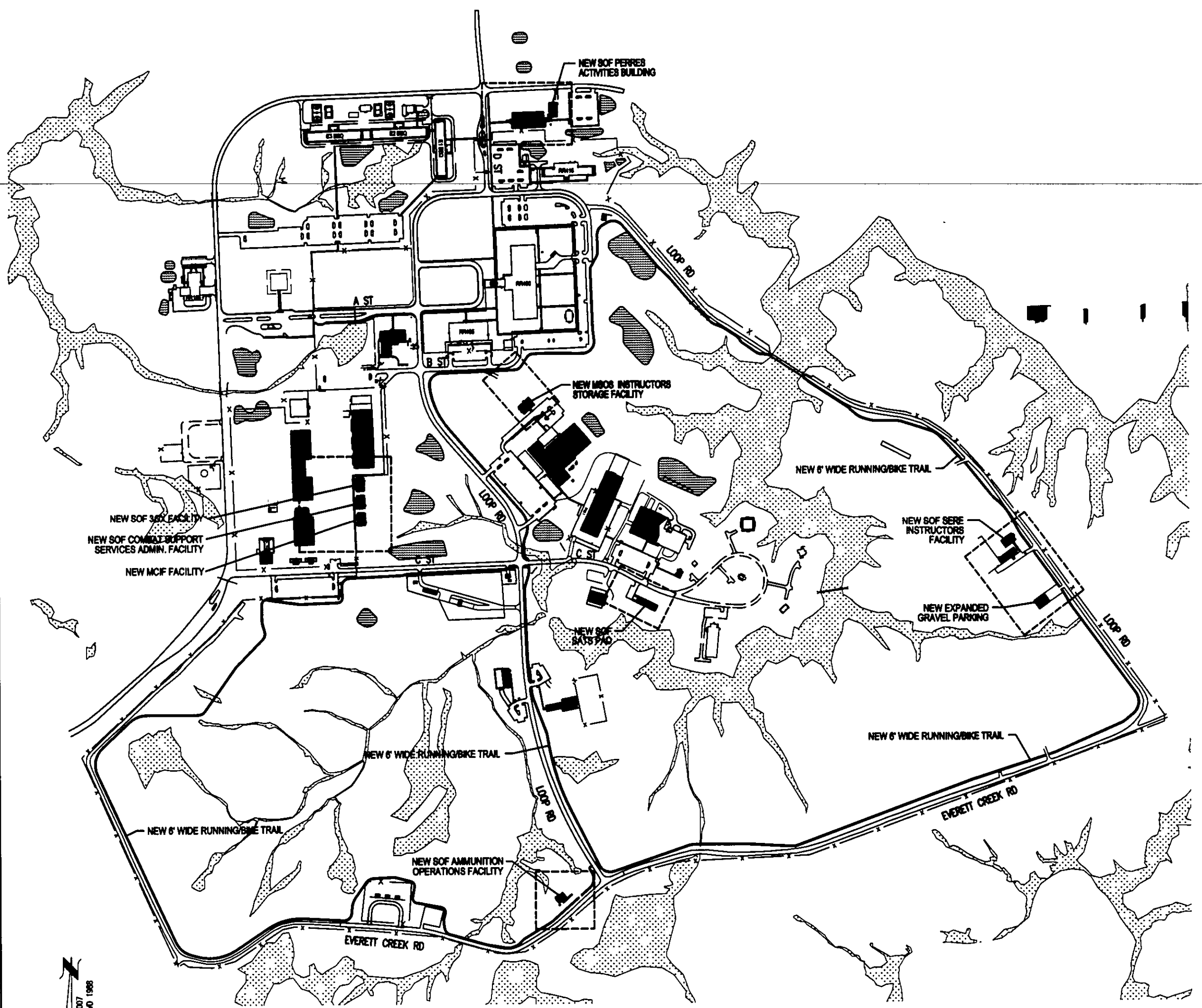
I - SOF PERRES ACTIVITIES BUILDING

60009210	C-1	114/126	SITE LAYOUT AND UTILITY PLAN
60009211	C-2	115/126	SITE GRADING PLAN
60009212	S-1	116/126	STRUCTURAL FOUNDATION PLAN
60009213	A-1	117/126	FLOOR, REFLECTED CEILING, AND ROOF PLAN
60009214	A-2	118/126	ELEVATIONS, PLANS, AND DETAILS
60009215	A-3	119/126	BUILDING AND WALL SECTIONS
60009216	A-4	120/126	WALL SECTIONS AND DETAILS
60009217	A-5	121/126	SCHEDULES AND NOTES
60009218	P-1	122/126	FLOOR PLAN AND SCHEMATICS
60009219	M-1	123/126	MECHANICAL FLOOR PLAN
60009220	E-1	124/126	ELECTRICAL LIGHTING PLAN
60009221	E-2	125/126	ELECTRICAL POWER PLAN
60009222	E-3	126/126	ELECTRICAL SITE PLAN

T-2

	The Walker Group Architecture, Inc. 2815 S. W. 10th Ave., Suite 200 Fort Lauderdale, FL 33311 (954) 575-1111	ARCHITECT S. BERGER CHG. B. WALKER SUBMITTED BY: J. WALKER DESIGN: DR. B. MARSHBURN	MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA CONSTRUCT MARSOC FACILITIES, STONE BAY
	APPROVED: PWD OR ORCC DATE:	INDEX OF DRAWINGS NAVFAC DRAWING NO. 60009098 CONSTRUCTION NO. 140008-11-9-0188	SCALE: NOTED SPEC. 11-0132 SHEET 8 OF 188

REVISIONS		
SYM	DATE	APPROVED



ABBREVIATIONS		
APPROX.	APPROXIMATE	APPROXIMATELY
DA #	DIAMETER	
DS	DRAINAGE STRUCTURE	
ELEV	ELEVATION	
EX, EXIST	EXISTING	
OPD	GALLONS PER DAY	
OPM	GALLONS PER MINUTE	
HPPE	HIGH DENSITY POLYETHYLENE	
INV	INVERT	
IPC	IRON PIPE & CAP (CONTROL)	
LS	POUNDS	
LF	LINEAR FOOT	
MAG	MAG. HAL. (CONTROL)	
MAX	MAXIMUM	
MIN	MINIMUM	
OHE	OVERHEAD ELECTRIC	
O.C.	ON CENTER	
OD	OUTSIDE DIAMETER	
PV	POST INDICATOR VALVE	
PVC	POLYVINYL CHLORIDE	
SF	SQUARE FEET	
SFT	SILT FENCE	
SMH	SANITARY SEWER MANHOLE	
SPES	SPECIFICATIONS	
TYP	TYPICAL	
WFF	WELDED WIRE FABRIC	
C/L	CENTERLINE	
±	AND	
±	PLUS OR MINUS	
%	PERCENT	
=	EQUALS	

CIVIL LEGEND		
EXISTING	DESCRIPTION	NEW
⊕	WATER VALVE	⊕
⊙	PV	⊙
⊕	GAS VALVE	⊕
⊕	POWER POLE	⊕
⊕	LIGHT POLE	⊕
⊕	GUY WIRE	⊕
—S—	SANITARY SEWER	—S—
—FM—	FORCE MAIN	—FM—
—W—	DOMESTIC WATER	—W—
—FW—	FIRE WATER	—FW—
—OHE—	OVERHEAD ELECTRIC	—OHE—
—UG—	UNDERGROUND ELECTRIC	—UG—
—	DITCH/SWALE	—
▭	ASPHALTIC CONCRETE	▭
▭	CONCRETE	▭
▭	GRAVEL	▭
⊕	TEMPORARY BENCHMARK	⊕
⊕	SPOT ELEVATIONS	⊕
—	CONTOUR LINES	—
—CL—	TREE LINE / CLEARING LIMIT	—CL—
—SCL—	SELECT HAND CLEARING LIMIT	—SCL—
—SF—	SILT FENCE	—SF—
—	SOB	—
—	FENCE	—
⊕	CONTROL POINT	⊕
⊕	CHECK DAM	⊕
⊕	SOURCE/DESTINATION UNKNOWN	⊕

N
 10/10/2007
 VERTICAL DATUM: NAVD 83

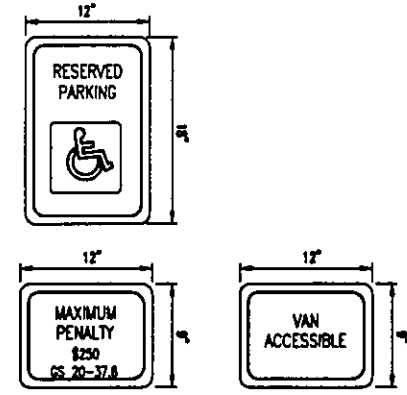
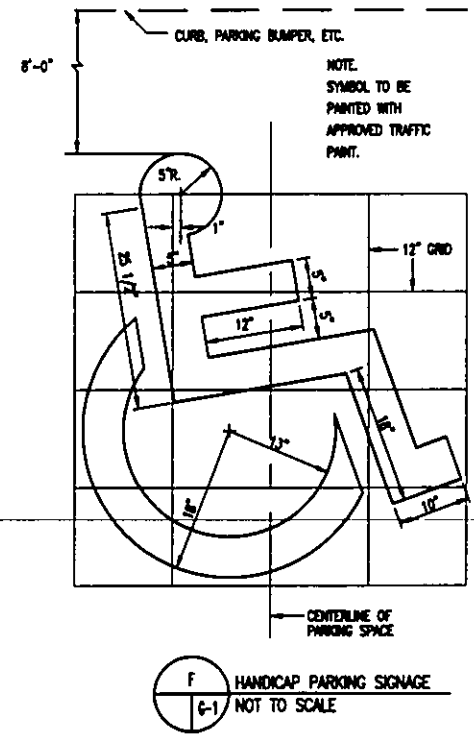
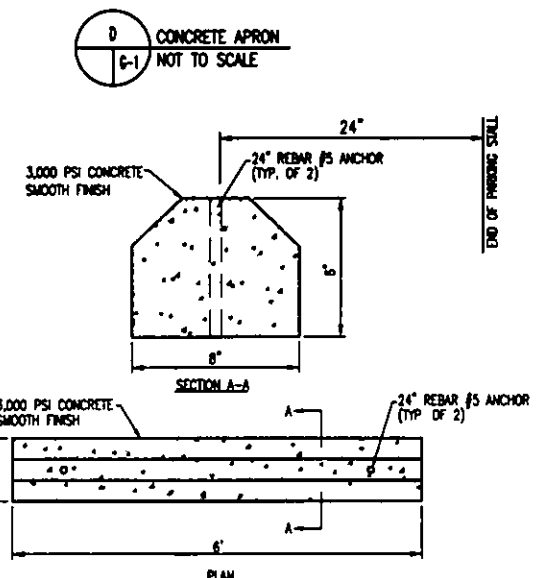
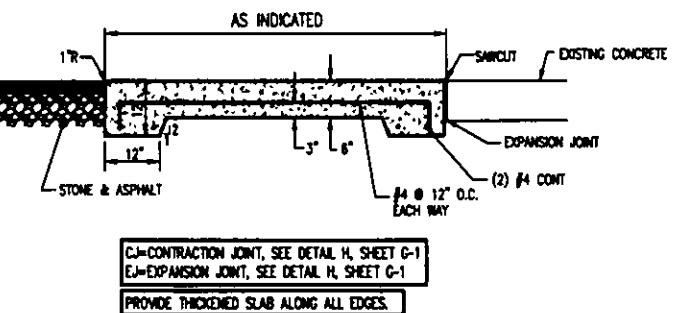
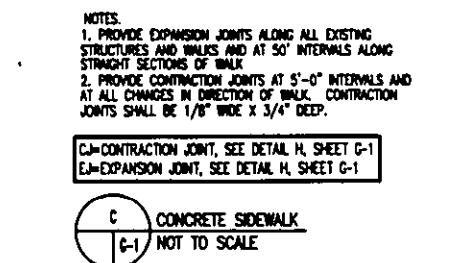
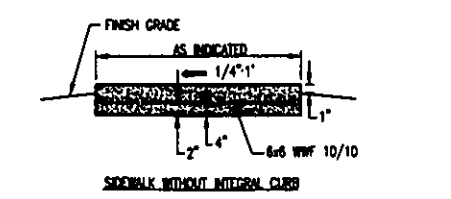
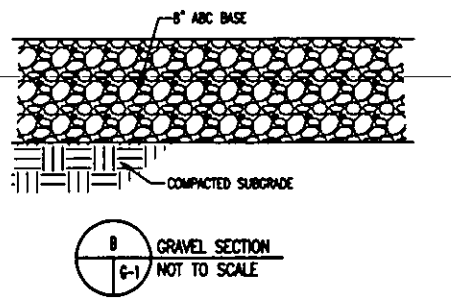
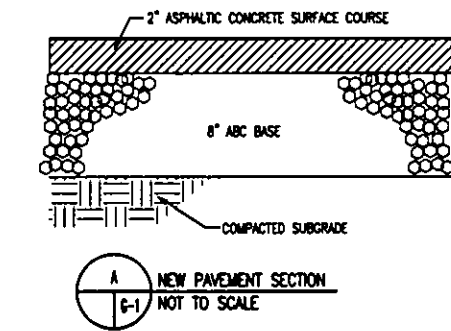
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 GRAPHIC SCALE: 1" = 300'

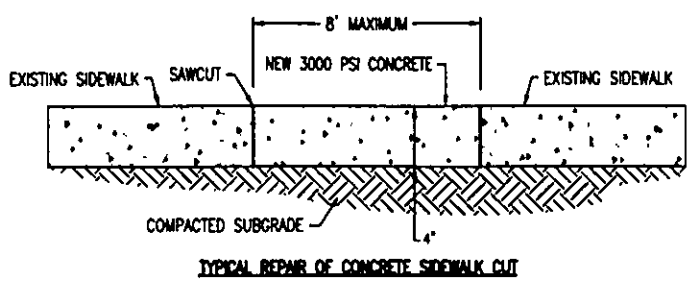
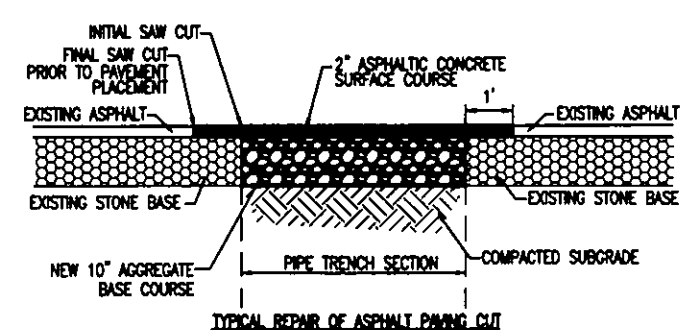
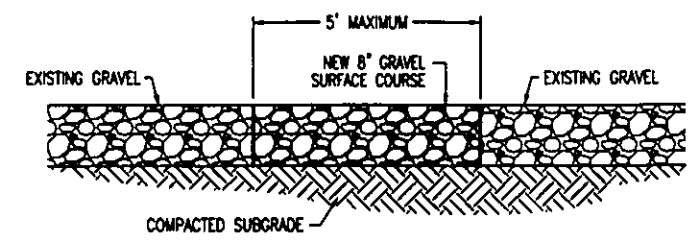
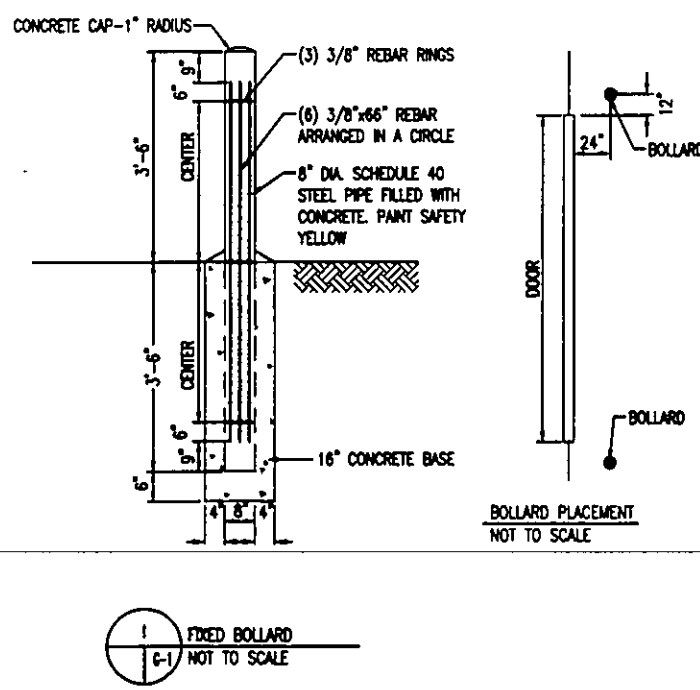
AVOLIS ENGINEERING, P.A.
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 The Walker Group Architecture, Inc. WALKER GROUP 1700 West 10th Street, Suite 200 Raleigh, NC 27603 (919) 876-1000		G-001	
		MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA CONSTRUCT MARSOC FACILITIES, STONE BAY OVERALL SITE INDEX PLAN	
DESIGNED BY: J. K. ANGLER, P.E. DRAWN BY: J. C. ANGLER, P.E. SUBMITTED BY: BRIAN R. MARSHBURN, P.E. APPROVED: PWD OR OCC	DATE: 10/11/07 DATE: 10/11/07	SIZE: F CODE IDENT NO: 80091	NAVFAC DRAWING NO: 8009099 COMBIL CONTR. NO. INGRESS-11-0122
SATISFACTORY TO:	DATE:	SCALE: NOTED	SHEET 3 OF 128

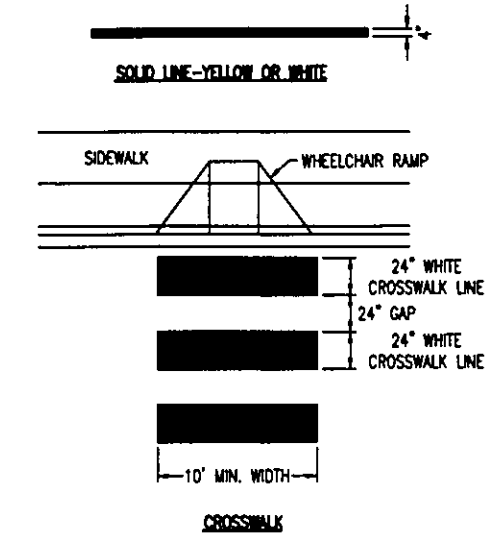
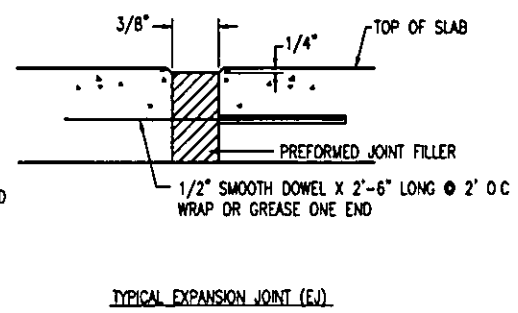
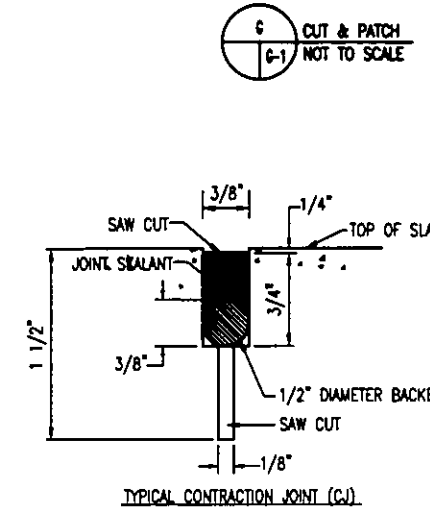
REVISIONS		
SYM	DATE	APPROVED



NOTES:
 1. COLORS: BACKGROUND: WHITE
 LEGEND AND BORDER: GREEN
 WHITE SYMBOL ON BLUE BACKGROUND
 2. MOUNT THE SIGN 60\"/>



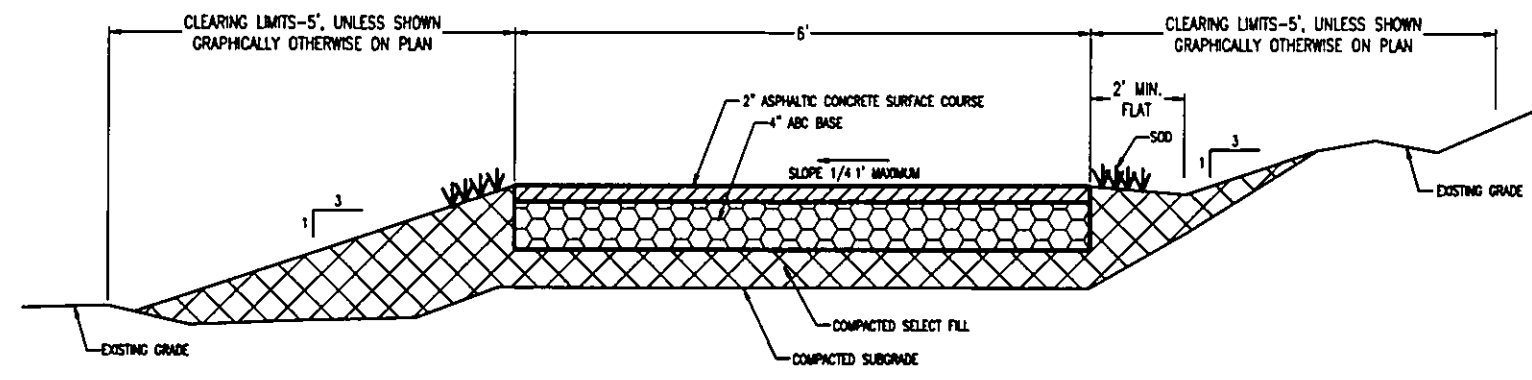
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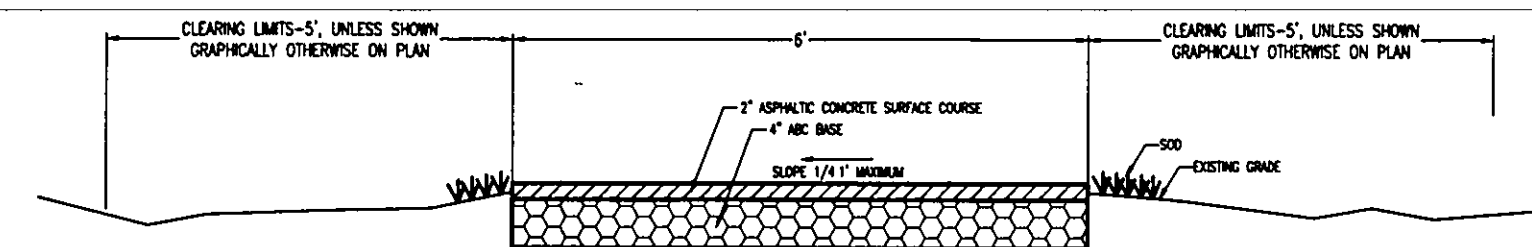
AVOLIS ENGINEERING, P.A.
 P.O. BOX 15894
 NEW BEHN, NC 28581
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		WALKER GROUP ARCHITECTURE, INC. 101 HILL STREET, SUITE 200 WASHINGTON, NC 27583 TEL: (919) 853-1100 FAX: (919) 853-1101		MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA	
DATE: 05-11-03		SIZE: F CODE: 80091		NAVFAC DRAWING NO.: 60009100 COMTR. CONTR. NO.: N02088-114-0132	
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REVISIONS		
SYM	DATE	APPROVED



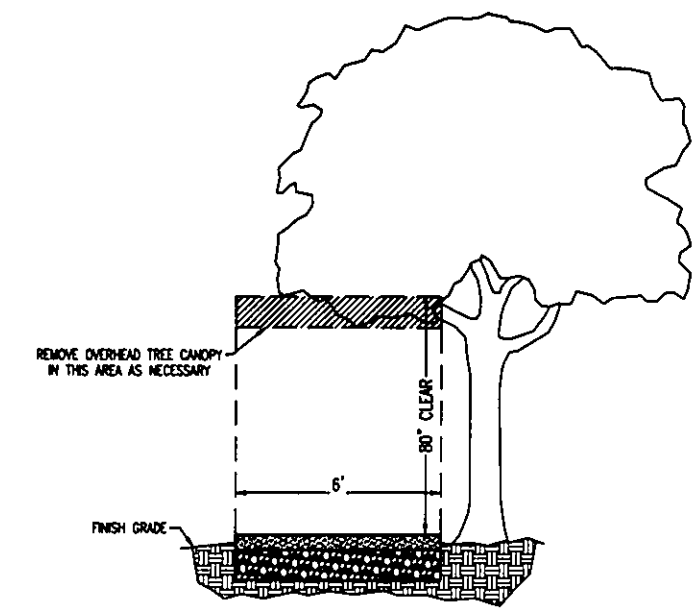
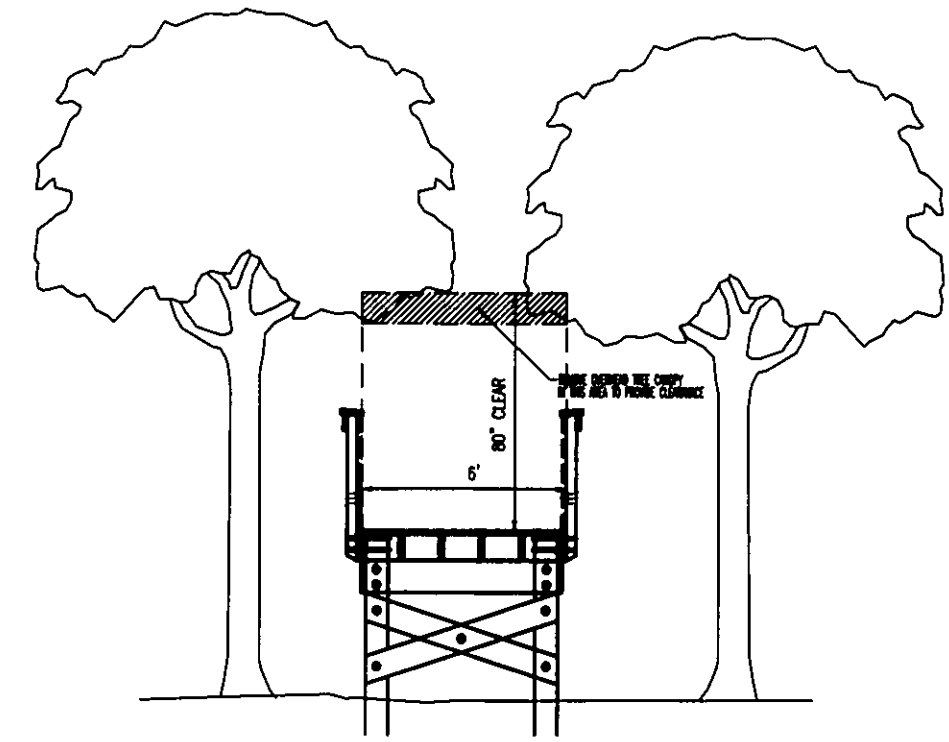
IN FILL SECTION



IN CUT SECTION

- NOTES:
1. THE CENTERLINE LOCATION OF THE JOGGING TRAIL SHALL BE FLAGGED IN THE FIELD AT MAXIMUM 50 FOOT INTERVALS. THE LOCATION OF THE TRAIL SHALL BE REVIEWED WITH THE CONTRACTING OFFICER PRIOR TO STARTING WORK.
 2. MINOR ADJUSTMENTS IN THE CENTERLINE HORIZONTAL AND/OR VERTICAL ALIGNMENT SHALL BE ALLOWED TO AVOID SIGNIFICANT SPECIMEN TREES, IRREGULAR EXISTING GRADES, OR OTHER EXISTING SITE FEATURES THAT WARRANT AVOIDING, ALL AT THE SOLE DISCRETION OF THE CONTRACTING OFFICER.
 3. GRADE EVENLY BETWEEN THE SPOT ELEVATIONS SHOWN.
 4. THE DISTURBED SHOULDER AREAS SHALL BE VEGETATED IN ACCORDANCE WITH THE PROJECT VEGETATION PLAN. SEE DETAIL D, SHEET G-3.
 5. THE CONTRACTOR SHALL GRADE THE SHOULDER AREA OF THE JOGGING TRAIL TO REMOVE EXCESS GRAVEL AND SHALL PROVIDE TOPSOIL FILL AND SOD ON ALL DISTURBED SHOULDER AREAS.

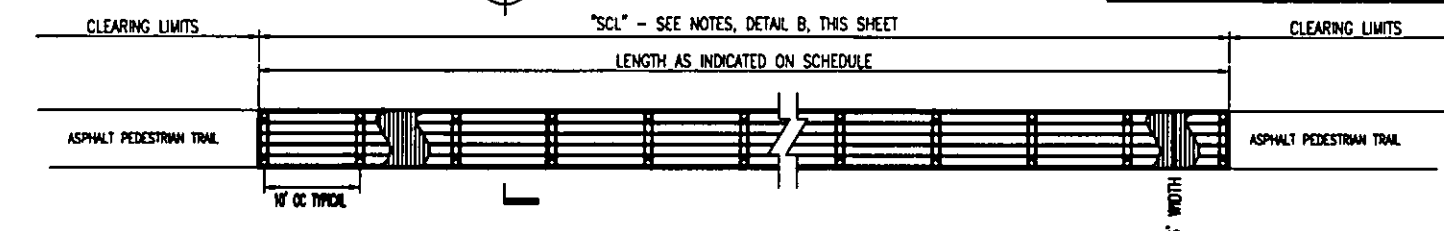
A ASPHALT PEDESTRIAN TRAIL
SCALE 1"=10'



B OVERHEAD CLEARANCE AT PEDESTRIAN WALKWAY
SCALE 1"=10'

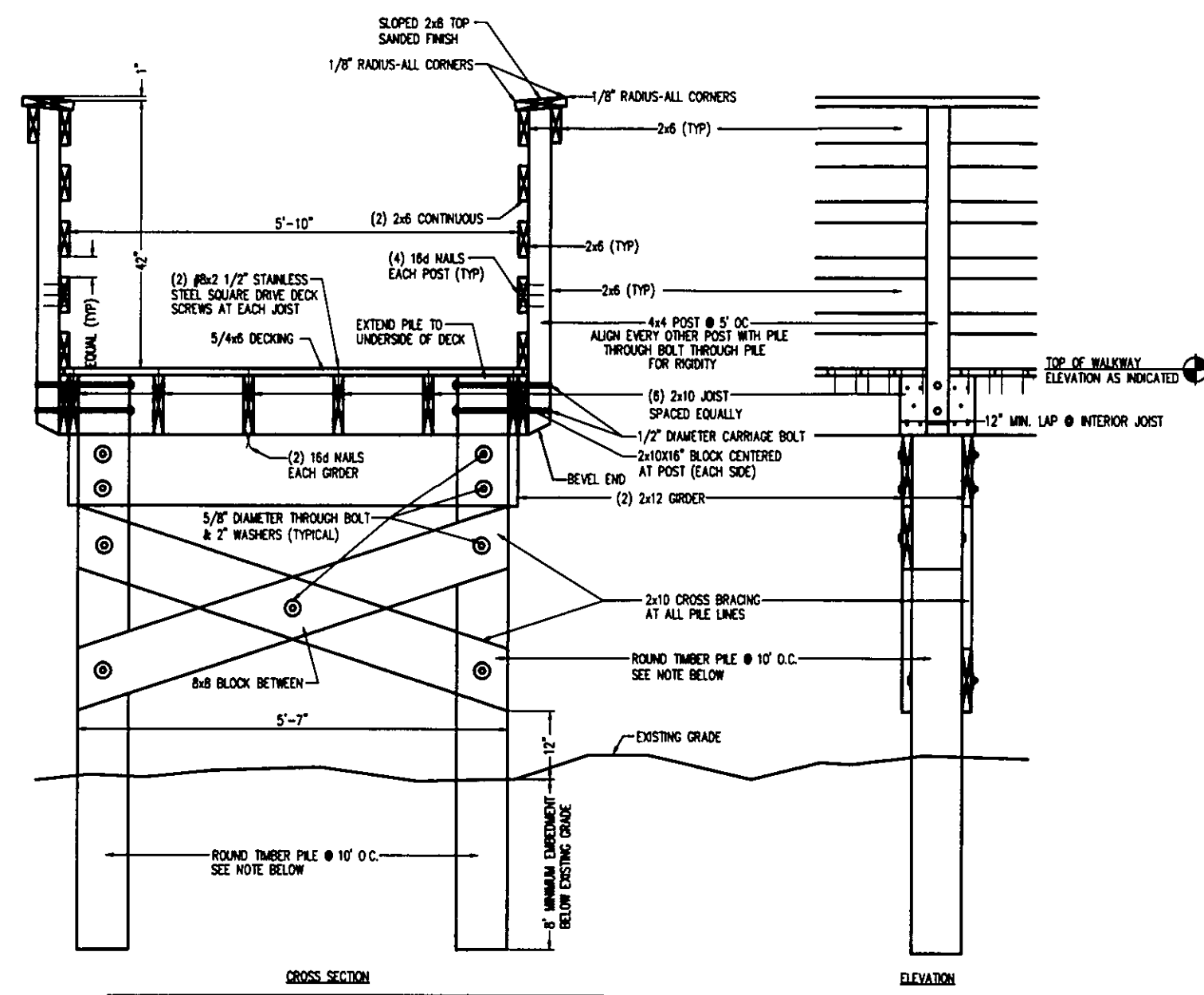
SELECTIVE HAND CLEARING NOTES:

1. THE ELEVATED WOOD WALKWAY IS LOCATED IN AN ENVIRONMENTALLY SENSITIVE AREA. WETLANDS EXIST IN THE PROJECT AREA AS INDICATED. NO GRADING, FILLING OR OTHER LAND DISTURBING ACTIVITIES BEYOND THOSE SPECIFIED HEREIN SHALL OCCUR TO THE ELEVATED WOOD WALKWAY SITE.
2. ALL WORK THROUGH THE WETLAND AREAS SHALL BE COMPLETED FROM TEMPORARY MATTING OR UPLANDS TO PREVENT DISTURBANCE TO THE NATURAL SURFACE OR VEGETATION.
3. FOR THOSE AREAS DESIGNATED TO RECEIVE SELECTIVE HAND CLEARING ("SCL"), EXISTING VEGETATION UNDER THE ELEVATED WOOD WALKWAY FOOTPRINT SHALL BE CUT TO A MAXIMUM HEIGHT OF 6 INCHES ABOVE THE EXISTING GRADE TO ALLOW INSTALLATION OF THE WALKWAY FOR THE AREA DESIGNATED ON EITHER SIDE OF THE WOOD WALKWAY TO RECEIVE SELECTIVE HAND CLEARING. ALL VEGETATION SMALLER THAN 2-INCH CALIPER SHALL BE CUT TO A MAXIMUM HEIGHT OF 6 INCHES ABOVE EXISTING GRADE. ALL VEGETATION GREATER THAN 2-INCH CALIPER SHALL BE PRUNED AND THINNED TO PROVIDE A CLEAR VIEW OF THE ADJACENT WATERWAY TO A HEIGHT OF 80 INCHES ABOVE THE FINISH WALKWAY.
4. ALL AREAS TO BE SELECTIVELY HAND CLEARED SHALL BE REVIEWED WITH THE CONTRACTING OFFICER PRIOR TO WORK STARTING.
5. SELECTIVE HAND CLEARING SHALL BE ACCOMPLISHED BY HAND; NO MECHANIZED EQUIPMENT SHALL BE UTILIZED. ALL DEBRIS SHALL BE REMOVED FROM THE PROJECT SITE.



STRUCTURE ID	STRUCTURE LENGTH	TOP OF DECK ELEVATION
A	75'	AS INDICATED
B	120'	AS INDICATED
C	20'	AS INDICATED
D	25'	AS INDICATED
E	50'	AS INDICATED

C PLAN VIEW - PEDESTRIAN WALKWAY FRAMING
SCALE 1"=10'



CROSS SECTION

NOTE:

1. A PILE LINE POSITION MAY BE SHIFTED A MAXIMUM OF ONE FOOT EITHER WAY ALONG THE WALKWAY ALIGNMENT TO AVOID CONFLICTS WITH LARGE STUMPS OR ROOT MATTER IF THE SPACING EXCEEDS 11' THE CONTRACTOR SHALL INSTALL AN ADDITIONAL PILE GROUP AT AN INTERMEDIATE LOCATION WHICH ELIMINATES STUMP OR ROOT CONFLICTS.
2. THE CONTRACTOR SHALL BLOCK THE WALKWAY FRAMING TO STRAIGHTEN THE ALIGNMENT ON TOP OF THE PILE SYSTEM. SOME REALIGNMENT BLOCKING AND SHIMMING MAY BE REQUIRED TO PROVIDE A STRAIGHT WALKWAY ON THE DESIGN ALIGNMENT. THE HANDRAIL SYSTEM SHALL BE INSTALLED TO PROVIDE A STRAIGHT AND PLUMB INSTALLATION.

1 CROSS SECTION PEDESTRIAN WALKWAY
SCALE 1"=10'

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<p>The Walker Group Architecture, Inc. 100 S. 1st St., Suite 100 Wilmington, NC 28401 TEL: (910) 799-1111 WWW: www.walkergrp.com</p>		<p>WALKWAY SCHEDULE DETAILS</p>	
<p>DESIGN: J.C. ANSELMI, P.E. CHKD: J.C. ANSELMI, P.E. SUBMITTED BY: DESIGN: DR. BROWN H. MARSHBURN, P.E.</p>		<p>DATE: 08/11/12 SCALE: NOTED SHEET: 5 OF 126</p>	
<p>APPROVED: P.W. OR DECC</p>		<p>DATE: 08/11/12 SPEC: 06-11-012</p>	
<p>SAFETY FACTORY TO:</p>		<p>DATE: 08/11/12 SPEC: 06-11-012</p>	
<p>AVOLUS ENGINEERING, P.A. P.O. BOX 1008 NEW BERN, NC 28581 PH: (252) 853-0266, FAX: (252) 853-8887</p>		<p>MAJOR FAC. DRAWING NO. 60009101</p>	
<p>PROJECT # 11048</p>		<p>CONTRACT NO. 06008-11-0-012</p>	

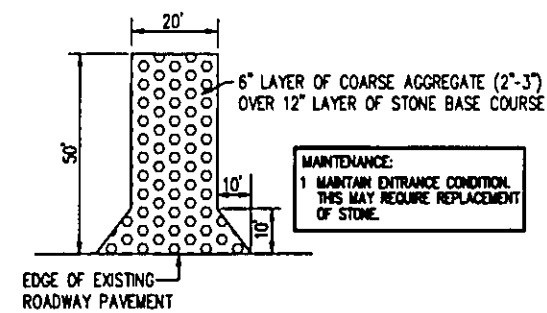
G-2

MARINE CORPS BASE
CAMP LEASLINE, NORTH CAROLINA
CONSTRUCT MARSOC FACILITIES,
STONE BAY

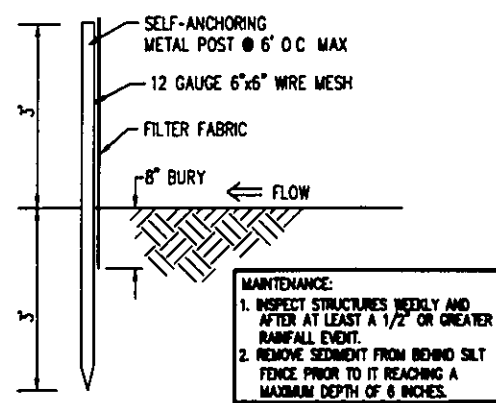
PEDESTRIAN WALKWAY DETAILS

DATE: 08/11/12
SPEC: 06-11-012
SHEET: 5 OF 126

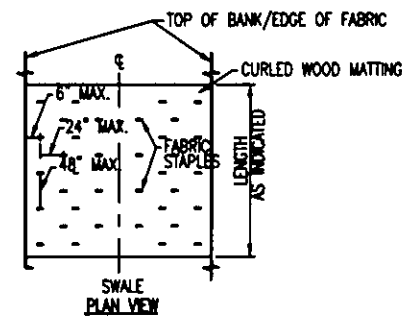
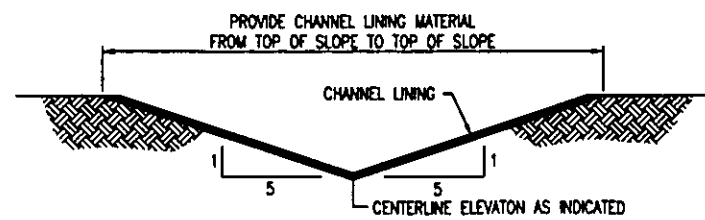
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SYM	DATE	APPROVED



A GRAVEL CONTROL ENTRANCE
(6-3) NOT TO SCALE



B SILT FENCE
(6-3) NOT TO SCALE



PROVIDE CURLED WOOD MATTING ON ALL SWALES

- NOTES:
1. INSTALL MATTING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS
 2. PREPARE SOIL AND FERTILIZE SWALE PRIOR TO MATTING INSTALLATION
 3. APPLY MATTING IN DIRECTION OF WATER FLOW
 4. PLACE MATTING IN CONTACT WITH SOIL
 5. UNIT ROLLS OF MATTING WITH 6" OVERLAP
 6. U-STAPLES SHOULD HAVE 6" MIN. LENGTH AND 1" MIN. CROWN

C VEGETATED SWALE
(6-3) NOT TO SCALE

TEMPORARY VEGETATIVE SEEDING
AFTER COMPLETION OF GRADING ACTIVITIES AND THE CONSTRUCTION OF SWALES, ALL EXPOSED AREAS SHALL BE SEED TO THE FOLLOWING SPECIFICATIONS.

JANUARY THROUGH DECEMBER

SEED BED
LIME 1-1/2 TON PER ACRE
FERTILIZER 1/2-TON PER ACRE
SEED
RYE GRASS 50 LBS PER ACRE
TALL FESCUE 100 LBS PER ACRE

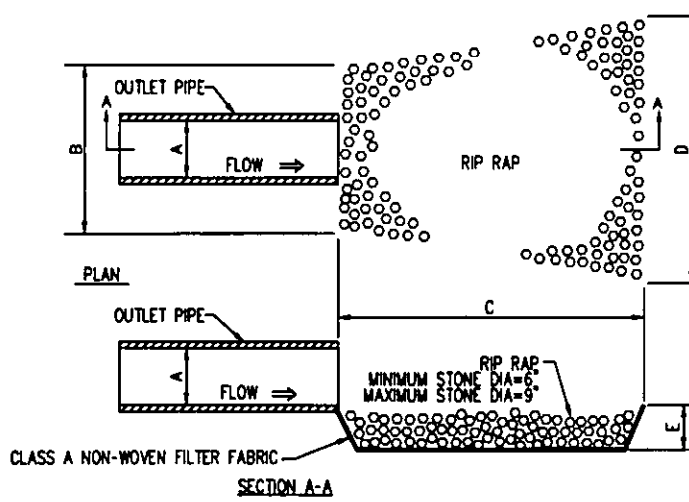
MAY THROUGH AUGUST (SUPPLEMENTAL SEEDING)
CENTPEDE 5 LBS PER ACRE

PROCEDURE
STRAW MULCH SHALL BE APPLIED AT A RATE WHICH WILL INSURE APPROXIMATELY 75% COVERAGE OF THE SEEDED AREA. THE STRAW AND SEED SHALL BE LIGHTLY DISCED INTO THE BED TO GIVE IT FURTHER RESISTANCE TO BLOWING AND WASHING. THE CONTRACTOR SHALL GUARANTEE A FULL STAND OF GRASS OVER THE ENTIRE DISTURBED AREA. IF NECESSARY THE CONTRACTOR WILL NET DOWN THE AREAS TO ASSIST IN SEED GERMINATION OR AD IN GROWTH IN TIMES OF EXCESSIVELY DRY WEATHER. A STAND OF GRASS WILL BE CONSIDERED ACCEPTABLE WHEN THE ENTIRE STAND OF GRASS IS AT LEAST FOUR INCHES HIGH AND HAS ACHIEVED AT LEAST 80% COVERAGE OF DISTURBED AREAS. RESEEDING WILL BE REQUIRED AS NECESSARY BY THE CONTRACTOR TO OBTAIN THE SPECIFIED STAND OF GRASS.

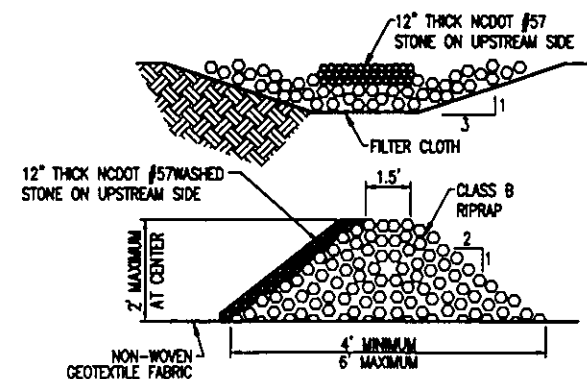
PERMANENT PERMANENT VEGETATION
ALL DISTURBED AREAS NOT COVERED WITH BUILDINGS, PAVEMENTS, OR OTHER IMPERMEABLE SURFACES SHALL BE SEED AS PERMANENT GROUND COVER.

- GENERAL NOTES:**
1. THE ANGLE FOR GRADED SLOPES AND FILL SHALL BE NO GREATER THAN THE ANGLE THAT CAN BE RETAINED BY VEGETATIVE COVER OR OTHER ADEQUATE EROSION CONTROL DEVICES OR STRUCTURES. IN ANY EVENT, SLOPES LEFT EXPOSED WILL, WITHIN 7 CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING, BE PLANTED OR OTHERWISE PROVIDED WITH TEMPORARY OR PERMANENT GROUND COVER DEVICES, OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION. ADDITIONALLY, WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS FROM THE COMPLETION OF THE PROJECT (WHICHEVER IS SHORTER), PERMANENT GROUND COVER SHALL BE ESTABLISHED.
 2. THE CONTRACTOR SHALL BE REQUIRED TO INSPECT ALL EROSION CONTROL DEVICES AT LEAST ONCE A WEEK AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 1/2 INCH (IN 24 HOURS). ANY DAMAGE MUST BE REPAIRED IMMEDIATELY.
 3. A RAIN GAUGE MUST BE MAINTAINED ON THE PROJECT SITE AND RAINFALL DATA RECORDED DAILY.

D VEGETATION PLAN
(6-3) NOT TO SCALE

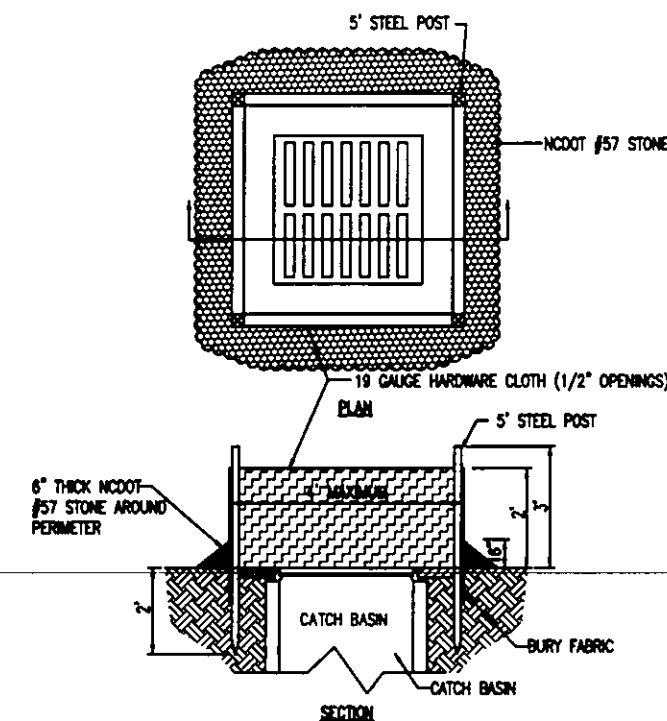


E INLET/OUTLET PROTECTION
(6-3) NOT TO SCALE

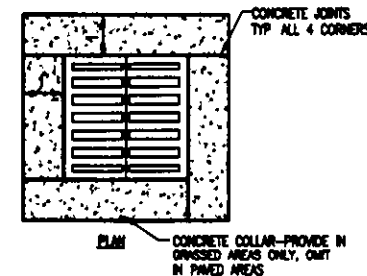


- MAINTENANCE**
1. CONSTRUCT CHECK DAM OF RIP RAP STONE PLACED IN ACCORDANCE WITH DETAIL.
 2. SEDIMENT BEHIND THE CHECK DAM SHALL BE REMOVED PRIOR TO THE LEVEL REACHING WITHIN 6" OF THE CENTERLINE CREST OF THE DAM
 3. SHOULD SCOUR DEVELOP AT THE DOWNSTREAM END, IT SHALL BE REPAIRED IMMEDIATELY.

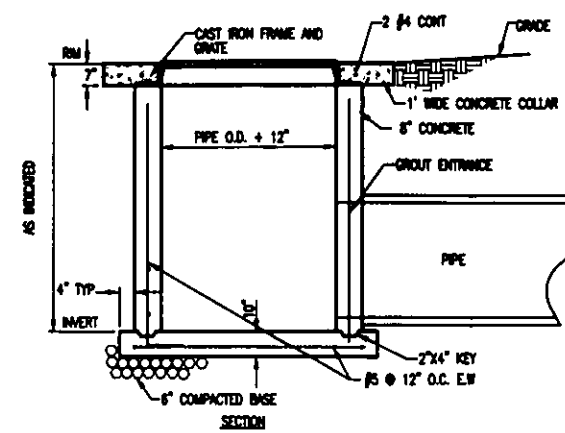
F CHECK DAM
(6-3) NOT TO SCALE



G DROP INLET PROTECTION
(6-3) NOT TO SCALE



H DROP INLET
(6-3) NOT TO SCALE

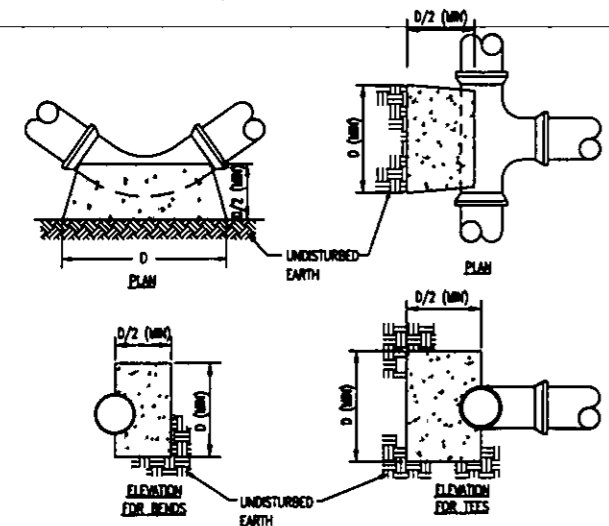
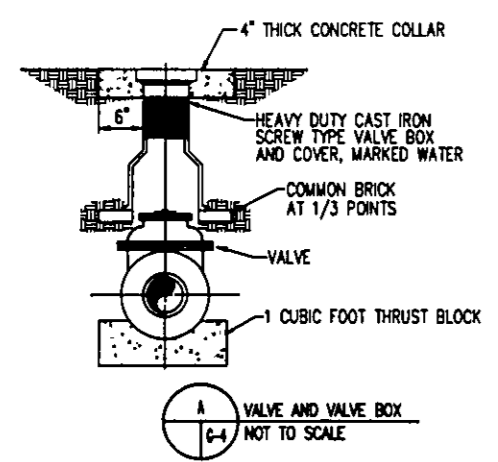


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<p>The Walker Group Architects, Inc. 1700 S.W. 10th Street, Suite 200 Fort Lauderdale, FL 33304 (954) 575-1100</p> <p>DESIGNER: J. K. AVOLIS, P.E. DRAWN: M. P. HOFF CHECKED: J. C. AVOLIS, P.E. SUBMITTED BY: DESIGN DATE: BRYAN H. MARSHALL, P.E. APPROVED: PHO OR GDC: DATE: DATE</p>		<p>80091</p> <p>DATE: DATE</p> <p>SCALE: NOTED SPEC: 05-11-0122</p>		<p>NAVFAC DRAWING NO. 60009102</p> <p>COMMITTEE CONTROL NO. 140208-11-8-0192</p>		<p>SHEET 6 OF 126</p>	
<p>CONSTRUCT MARSOC FACILITIES, STONE BAY</p>				<p>NAVFAC DRAWING NO. 60009102</p>		<p>SHEET 6 OF 126</p>	

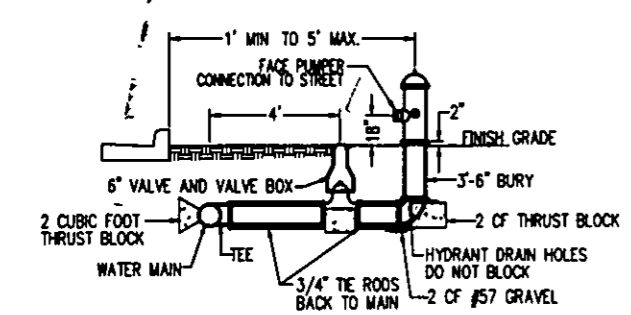
G-3

REVISIONS		
SYM	DATE	APPROVED

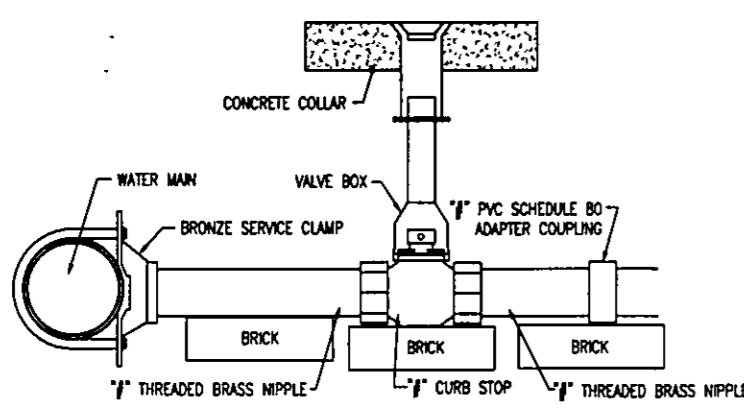


NON-PIPE DIA.	THRUST BLOCK DIMENSION D (IN FEET)				
	2"	4"	6"	8"	12"
DEAD END	1.2	1.2	1.2	1.2	1.2
90° BEND	1.2	1.2	1.2	1.2	1.2
45° BEND	1.0	1.0	1.0	1.0	1.0
22 1/2° BEND	0.7	0.7	0.7	0.7	0.7
11 1/4° BEND	0.7	0.7	0.7	0.7	0.7

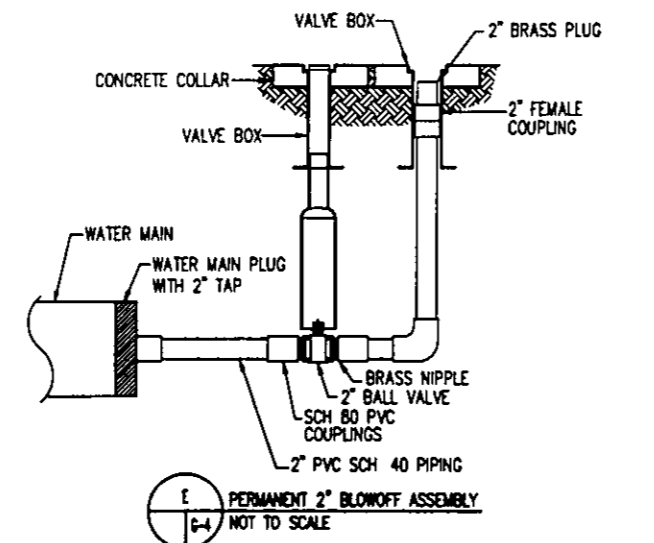
B THRUST BLOCK
NOT TO SCALE



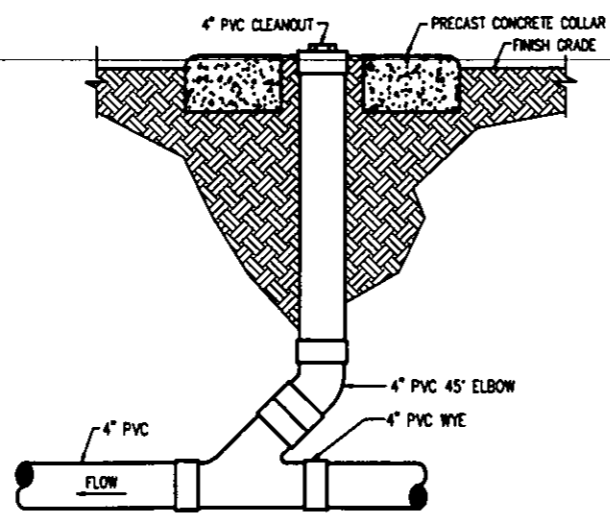
C FIRE HYDRANT ASSEMBLY
NOT TO SCALE



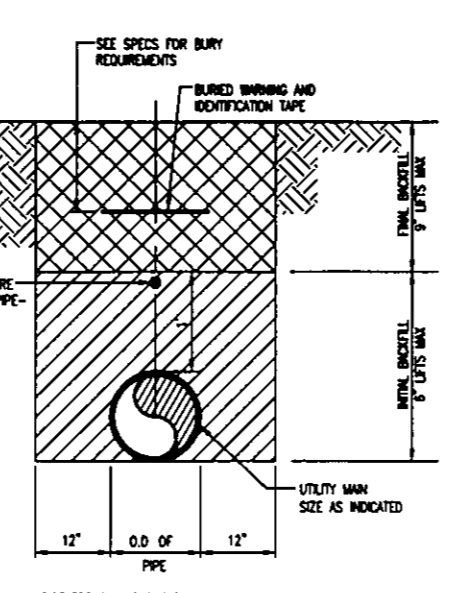
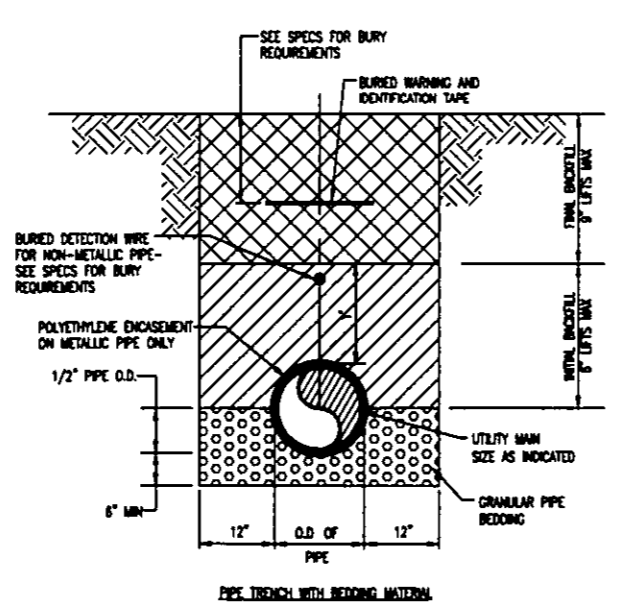
D 1 1/2 INCH OR 2-INCH WATER CONNECTION
NOT TO SCALE



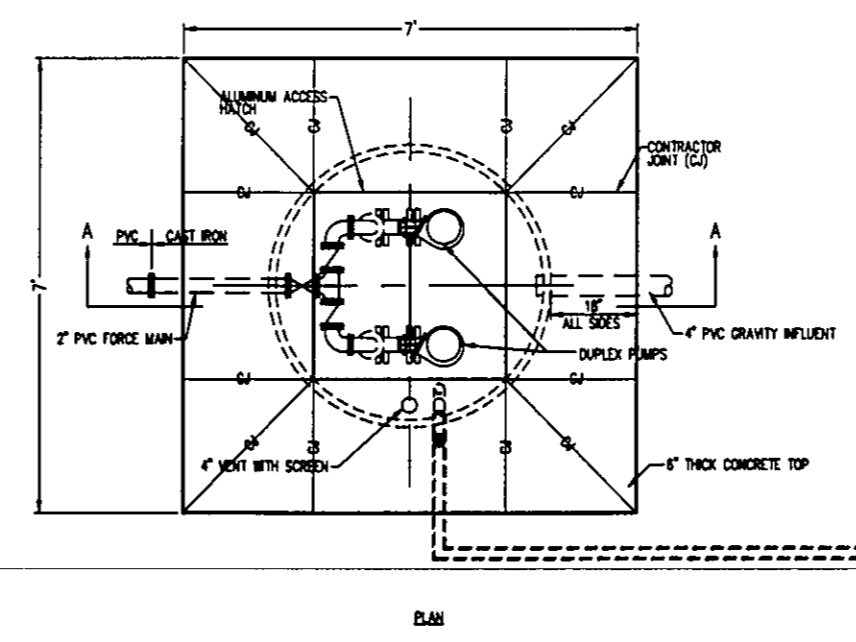
E PERMANENT 2" BLOWOFF ASSEMBLY
NOT TO SCALE



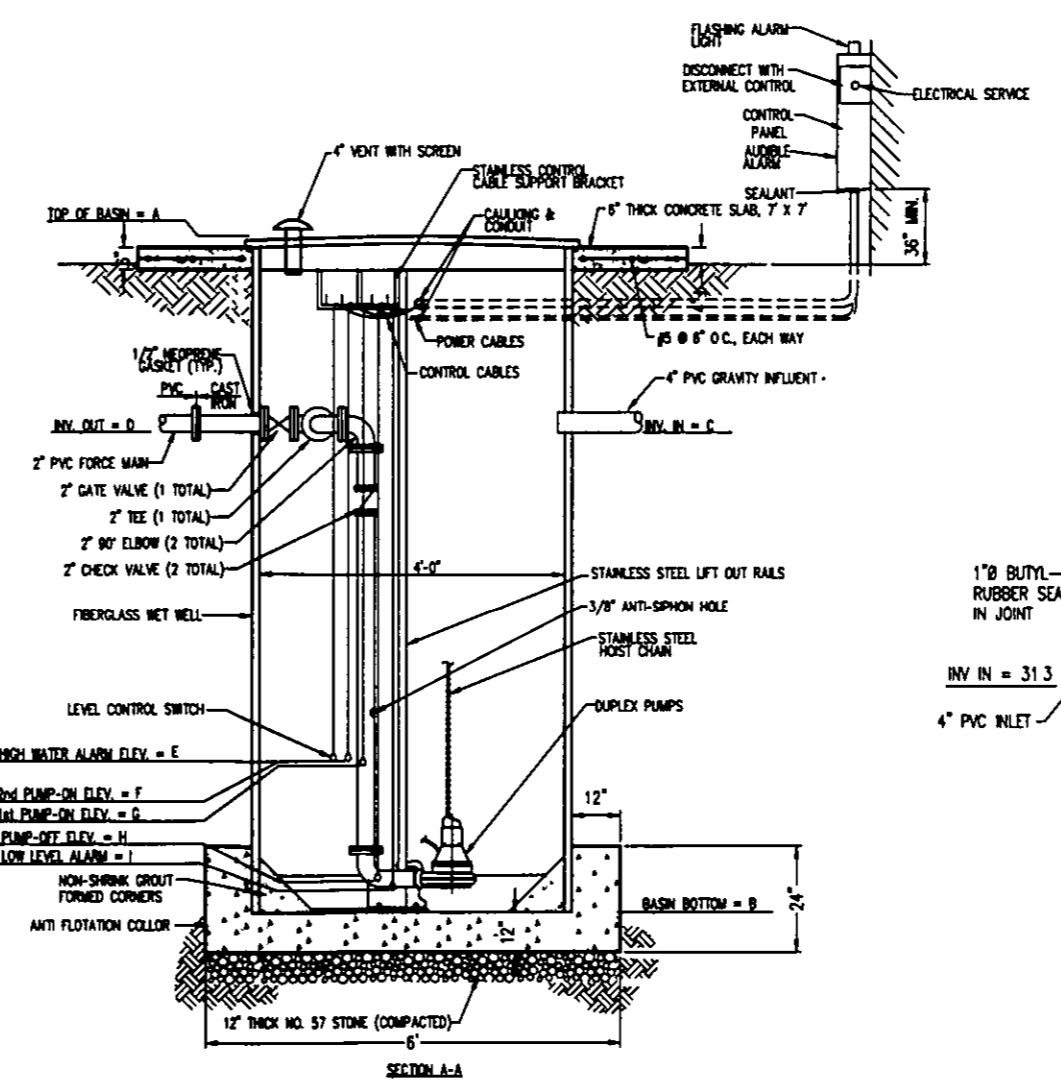
F CLEANOUT
NOT TO SCALE



H PIPE TRENCH SECTION
NOT TO SCALE



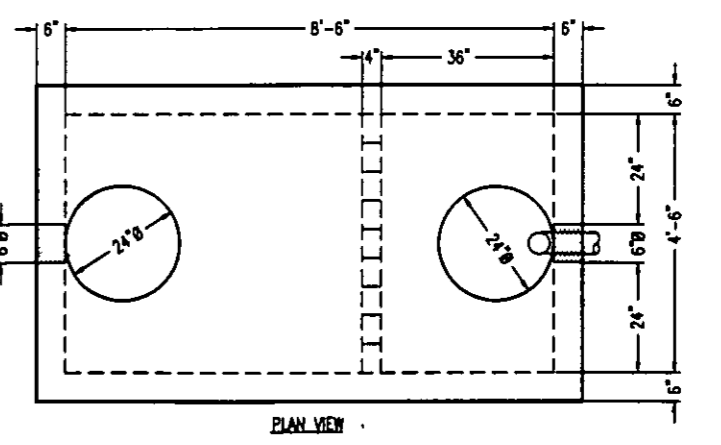
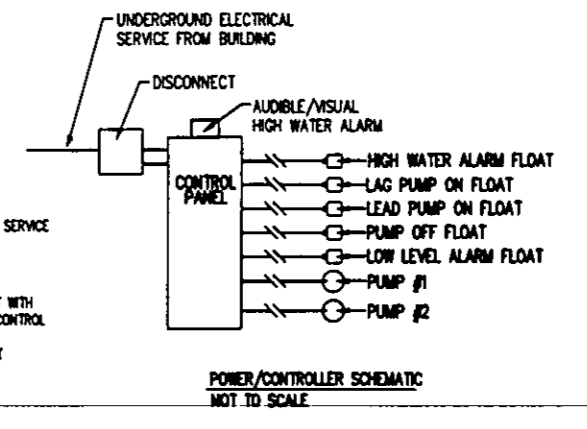
I PLAN VIEW
NOT TO SCALE



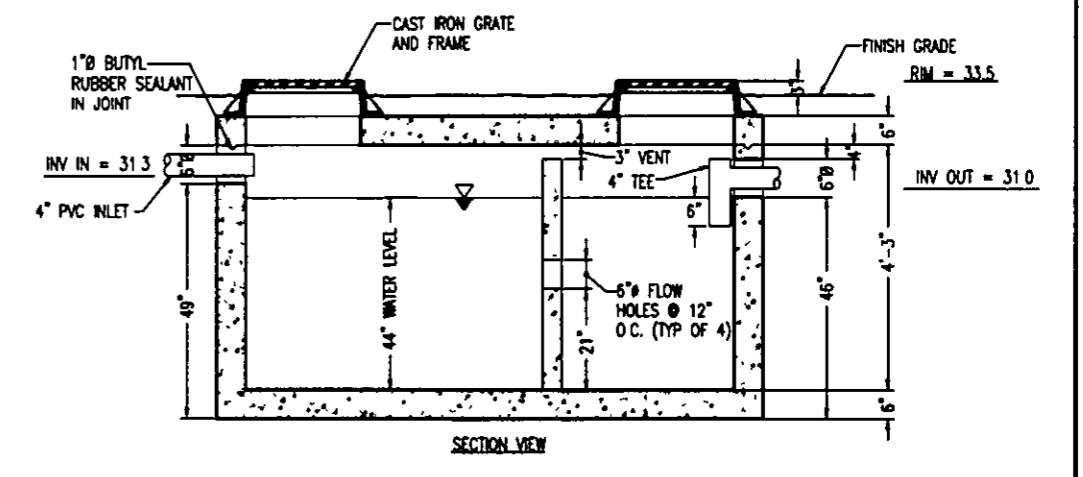
J SECTION A-A
NOT TO SCALE

SEWER NET WELL SUMMARY												
LOCATION	TOP OF BASIN (A)	BOTTOM OF BASIN (B)	INVERT IN (C)	INVERT OUT (D)	E	F	G	H	I	PUMP CAPACITY	PUMP POWER REQUIREMENTS	PUMP POWER REQUIREMENTS
SOB SERE INSTRUCTORS FACILITY	38.0'	29.5'	20.0'	20.0'	31.7'	31.7'	31.8'	30.5'	30.0'	18.6 GPM @ 8.75 TDH	208V, SINGLE PHASE	EFFLUENT PUMPS IN PUMP TANK
SOB AMMUNITION OPERATIONS FACILITY	38.5	30.5	35.5	34.5	31.9	31.8	31.7	31.5	31.4	20 GPM @ 20' TDH	240V, SINGLE PHASE	GRINDER PUMPS IN FIBERGLASS BASIN

J SEWER NET WELL AND PUMPS
NOT TO SCALE



L PLAN VIEW
NOT TO SCALE



M SECTION VIEW
NOT TO SCALE

		G-4	
		MARINE CORPS BASE CAMP LEAHENE, NORTH CAROLINA	
DR. J. K. AVOLIS, P.E. DR. MDP / MPP CHK. J. C. AVOLIS, P.E.		CONSTRUCT MARSOC FACILITIES, STONE BAY	
SUBMITTED BY: DESIGN DIR. BRIAN R. MARSHALL, P.E.		UTILITY DETAILS	
APPROVED: PWG OR OIC	DATE	SIZE: F CODE IDENT NO: 80091	NAVFAC DRAWING NO: 60009103
SATISFACTORY TO:	DATE	SCALE: NOTED SPEC: 06-11-012	SHEET 7 OF 126

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SYM	REVISIONS	DATE APPROVED

SYMBOL SCHEDULE

GENERAL SYMBOLS		WIRING DEVICES	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
—	CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALLS.	⊕	DUPLEX RECEPTACLE, 125V, 3-WIRE GROUNDING TYPE.
—	CONDUIT RUN CONCEALED IN OR BELOW FLOORS OR UNDERGROUND.	⊕ EWC	DUPLEX RECEPTACLE, 125V, GROUND FAULT CIRCUIT INTERRUPTING, 3-WIRE GROUNDING TYPE. LOCATE WITHIN OR BEHIND AN ELECTRIC WATER COOLER. COORDINATE WITH PLUMBER FOR EXACT LOCATION.
—	CONDUIT RUN EXPOSED.	⊕ GFI	DUPLEX RECEPTACLE, GROUND FAULT CIRCUIT INTERRUPTING.
↗	CONDUIT TURNING UP	⊕ GFCI	DUPLEX GFCI RECEPTACLE. PROVIDE WITH OPERABLE, IN-USE WEATHERPROOF COVER.
↘	CONDUIT TURNING DOWN	⊕	TWO DUPLEX RECEPTACLES, 125V, 3-WIRE GROUNDING TYPE, IN A TWO-GANG BOX WITH TWO-GANG FACEPLATE.
—	SQUARE ON CONDUIT SYMBOL INDICATES THAT CIRCUIT CONTINUES BUT NOT SWITCHED.	⊕	SPECIAL PURPOSE RECEPTACLE, WITH SPECIAL NEMA CONFIGURATION AS NOTED.
→	HOMERUN TO PANEL AND CIRCUIT(S) DESIGNATED. ARROW(S) INDICATE QUANTITY OF CIRCUITS.	▽	WALL OUTLET FOR TELECOMMUNICATIONS. SEE SPECIFICATIONS AND/OR DRAWINGS FOR CONDUIT AND CABLING REQUIREMENTS.
⊕	JUNCTION BOX PER N.E.C.	▽	SIPRNET OUTLET. SEE SPECIFICATIONS AND/OR DRAWINGS FOR CONDUIT AND CABLING REQUIREMENTS.
⊕	SPECIAL NOTE, NUMERALS IDENTIFY, SEE SCHEDULE.	⊕	DOT ABOVE OUTLETS INDICATES THAT THE DEVICE IS TO BE INSTALLED ABOVE CASEWORK OR OTHER OBSTACLE. COORDINATE.
⊕	SPECIAL CONNECTION TO A SPECIFIC ITEM OF EQUIPMENT. SEE CONNECTION SCHEDULE.	S	LIGHT SWITCH, SINGLE-POLE.
⊕	MOTOR CONNECTION. RATING AS NOTED.	S ₃	LIGHT SWITCH, 3-WAY.
LIGHTING		SS	WHERE TWO SWITCHES ARE SHOWN CONTROLLING A SINGLE OR COMMON GROUP OF FLUORESCENT LIGHTING FIXTURES, EACH WITH 3 OR MORE LAMPS, THE SWITCH CLOSEST TO THE DOOR SHALL CONTROL THE INNER LAMP(S) IN EACH FIXTURE, AND THE OTHER SWITCH SHALL CONTROL THE OUTER LAMP(S) IN EACH FIXTURE. WHERE INDICATED, MASTER-SLAVE BALLAST WIRING SHALL BE UTILIZED TO ACHIEVE THIS CONTROL.
SYMBOL	DESCRIPTION	S ₁	PROGRAMMABLE LIGHT SWITCH, WALL MOUNTED.
○	FLUORESCENT LIGHTING FIXTURE, DRAWN TO SCALE.	⊕	EQUIPMENT CONTROL STATION. MOUNT 48" ABOVE FINISHED FLOOR.
○	FLUORESCENT LIGHTING FIXTURE, CONNECTED TO AN EMERGENCY CIRCUIT (SWITCHED)	⊕	OCCUPANCY SENSOR, CEILING MOUNTED. PROVIDE WITH 10 FEET WHP TO ALLOW FIELD ADJUSTMENT OF LOCATION. COORDINATE EXACT LOCATION WITH MANUFACTURERS RECOMMENDATION.
▨	FLUORESCENT LIGHTING FIXTURE, UTILIZED AS A NIGHT-LIGHT. CONNECT TO THE UNSWITCHED LEG OF THE CIRCUIT.	SECURITY SYSTEM	
▨	FLUORESCENT LIGHTING FIXTURE, CONNECTED TO AN EMERGENCY CIRCUIT, CONNECT TO THE UNSWITCHED LEG OF THE CIRCUIT.	⊕	SIX INCH SQUARE BOX FOR FUTURE CARD READER. PROVIDE 1" EC WITH PULLSTRING TO NEAREST CABLETRAY.
▨	FLUORESCENT STRIP FIXTURE.	DISTRIBUTION	
▨	BARE FLUORESCENT STRIP FIXTURE CONNECTED TO AN EMERGENCY CIRCUIT. CONNECT TO THE UNSWITCHED LEG OF THE CIRCUIT.	⊕	ELECTRICAL PANELBOARD, FLUSH MOUNTED.
○	INCANDESCENT, HID OR COMPACT FLUORESCENT LIGHTING FIXTURE, CEILING MOUNTED.	⊕	ELECTRICAL PANELBOARD, SURFACE MOUNTED.
○	INCANDESCENT, HID OR COMPACT FLUORESCENT LIGHTING FIXTURE, CONNECTED TO AN EMERGENCY CIRCUIT OR EMERGENCY BALLAST.	⊕	CONTROL CABINET, FLUSH OR SURFACE MOUNTED.
⊕	INCANDESCENT, HID OR COMPACT FLUORESCENT LIGHTING FIXTURE, UTILIZED AS A NIGHT-LIGHT. CONNECT TO THE UNSWITCHED LEG OF THE CIRCUIT.	⊕	ENCLOSED CIRCUIT BREAKER
⊕	INCANDESCENT, HID OR COMPACT FLUORESCENT LIGHTING FIXTURE, CONNECTED TO AN EMERGENCY CIRCUIT OR EMERGENCY BALLAST.	⊕	DISCONNECT SWITCH, NON-FUSIBLE.
⊕	INCANDESCENT, HID OR COMPACT FLUORESCENT LIGHTING FIXTURE, WALL MOUNTED.	⊕	DISCONNECT SWITCH, FUSIBLE.
⊕	INCANDESCENT, HID OR COMPACT FLUORESCENT LIGHTING FIXTURE, WALL MOUNTED, CONNECTED TO AN EMERGENCY CIRCUIT OR EMERGENCY BALLAST.	⊕	DISCONNECT SWITCH PROVIDED WITH EQUIPMENT.
⊕	EXIT SIGN, CEILING MOUNTED. SHADING INDICATES FACE ORIENTATION. PROVIDE ARROWS AS SHOWN ON PLAN BESIDE SYMBOL.	→	GROUND CONNECTION.
⊕	EXIT SIGN, WALL MOUNTED. SHADING INDICATES FACE ORIENTATION. PROVIDE ARROWS AS SHOWN ON PLAN BESIDE SYMBOL.	ABBREVIATIONS	
⊕	EMERGENCY BATTERY PACK FIXTURE, CEILING MOUNTED. CONNECT TO UNSWITCHED LEG OF THE CIRCUIT.	A AMPERES	
⊕	EMERGENCY BATTERY PACK FIXTURE, WALL MOUNTED. CONNECT TO UNSWITCHED LEG OF THE CIRCUIT.	AFF ABOVE FINISHED FLOOR	
○	POLE-MOUNTED, PARKING AREA LIGHTING FIXTURE.	AFG ABOVE FINISHED GRADE	
		AHH FIRE ALARM ANNUNCIATOR CABINET	
		C CONDUIT	
		CB CIRCUIT BREAKER	
		CKT CIRCUIT	
		CLG CEILING	
		DN DOWN	
		DW DISHWASHER	
		EC EMPTY CONDUIT	
		EMT ELECTRICAL METALLIC TUBING	
		EWC ELECTRIC WATER COOLER	
		FACP FIRE ALARM CONTROL PANEL	
		FMC FLEXIBLE METAL CONDUIT	
		G GROUND	
		GFI GROUND FAULT INTERRUPTER	
		HOA HAND OFF AUTOMATIC	
		HP HORSEPOWER	
		HPF HIGH POWER FACTOR	
		HX HIGH REACTANCE	
		IMC INTERMEDIATE METAL CONDUIT	
		IS INSTANT START	
		JB JUNCTION BOX	
		KVA KILOVOLT-AMPERES	
		KWH KILOWATTS	
		LFMC LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT	
		MCC MAIN CIRCUIT BREAKER	
		MCD METAL CLAD CABLE	
		MLD MAIN LUGS ONLY	
		MNT MOUNTED	
		NMC NON-METALLIC CLAD CABLE	
		PB PULLBOX	
		PNL PANELBOARD	
		PS PROGRAM START	
		PWR POWER	
		REC RECEPTACLE	
		RMC RIGID METAL CONDUIT	
		RS RAPID START	
		SW SWITCH	
		TIB TELEPHONE TERMINAL BOARD	
		TVB TELEVISION BOARD	
		TEL TELEPHONE	
		TV TELEVISION	
		TYP TYPICAL	
		V VOLTS	
		W WALL MOUNTED	
		WP WEATHER PROOF	
		XPMR TRANSFORMER	
		MOUNTING HEIGHTS	
		(DISTANCE FROM FINISHED FLOOR TO CENTER OF DEVICE UNLESS OTHERWISE NOTED)	
		RECEPTACLE	
		GENERAL 18" AFF. (UNLESS OTHERWISE NOTED)	
		ABOVE COUNTER TOP 8" ABOVE COUNTER. (UNLESS OTHERWISE NOTED)	
		LIGHT SWITCH	
		48" AFF. (UNLESS OTHERWISE NOTED)	
		TELECOMMUNICATIONS	
		GENERAL 18" AFF. (UNLESS OTHERWISE NOTED)	
		ABOVE COUNTER TOP 8" ABOVE COUNTER. (UNLESS OTHERWISE NOTED)	
		WALL	
		48" AFF.	
		TELEVISION	
		78" AFF. (UNLESS OTHERWISE NOTED)	
		FIRE ALARM	
		FULL STATION 48" AFF.	
		AUDIBLE/STROBE COMBINATION OR STROBE DEVICE ONLY 80" ABOVE THE FINISHED FLOOR.	

EQUIPMENT CONNECTION SCHEDULE

SYM.	EQUIPMENT	LOAD	VOLT/PHASE	DISCONNECT				CONDUCTORS	RACEWAY		NOTES
				TYPE	RATING	POLES	TRIP/FUSE		ENCL.	TYPE	
19	AH-1, AH-2, AH-3, AH-4, AH-5, AH-6, AH-7, AH-8, AH-9, AH-10, AH-11, AH-12, AH-13, AH-14 (CKT. 1)	38.2A + 7FLA	208/1	NFDS	60	2	---	1	2#8, 1#10G	FMC	1"
19	AH-1, AH-2, AH-3, AH-4, AH-5, AH-6, AH-7, AH-8, AH-9, AH-10, AH-11, AH-12, AH-13, AH-14 (CKT. 2)	17.3A	208/1	NFDS	30	2	---	1	2#10, 1#10G	FMC	1/2"
2	HP-1, HP-2, HP-3, HP-4, HP-5, HP-6, HP-7, HP-10, HP-13, HP-14	28RLA + 8.3RLA	208/1	FDS	60	2	60	3R	2#8, 1#10G	LFMC	3/4"
3	HP-8, HP-9	18 RLA + 8.3RLA	208/1	FDS	60	2	35	3R	2#8, 1#10G	LFMC	3/4"
4	HP-11, HP-12	15 RLA + 7.8RLA	208/1	FDS	30	2	30	3R	2#10, 1#10G	LFMC	1/2"
5	WH-1A, WH-1B, WH-1C, WH-1E	2#4.5KW NON-SIMULTANEOUS	208/3	NFDS	30	3	---	1	3#12, 1#12G	FMC	1/2"
6	WH-1F	2#4.5KW NON-SIMULTANEOUS	240/1	NFDS	30	2	---	1	2#10, 1#10G	FMC	1/2"
7	WH-1G	38KW	208/3	NFDS	200	3	---	1	3#1/0, 1#6G	FMC	1-1/2"
8	WH-1I	2KW	208/1	NFDS	30	3	---	1	2#12, 1#12G	FMC	1/2"
9	ERV-1	1-1/2HP + 1-1/2HP + 1.25A	208/1	NFDS	60	2	---	3R	2#10, 10G	LFMC	1/2"
10	MSAH-1	1FLA	208/1	NFDS	30	2	---	1	2#12, 1#12G	FMC	1/2" POWERED FROM MSHP-1.
11	MSHP-1	3.3RLA	208/1	FDS	30	2	15	1	2#12, 1#12G	FMC	1/2"
12	SEWAGE PUMP	2-2 HP (DUPLEX)	240/1	NFDS	60	2	---	3R	2#8, 1#10G	LFMC	1/2"
13	SEWAGE PUMP	2-3/4 HP (DUPLEX)	208/1	NFDS	30	2	11	3R	2#12, 1#12G	LFMC	1/2"

LEGEND

DISCONNECT TYPES
 ETOB = ELECTRONIC-TRIP CIRCUIT BREAKER
 FDS = FUSIBLE DISCONNECT SWITCH
 MCP = MOTOR CIRCUIT PROTECTOR
 NFDS = NON-FUSIBLE DISCONNECT SWITCH
 ST/DS = COMBINATION STARTER/DISCONNECT SWITCH
 TMCB = THERMAL-MAGNETIC CIRCUIT BREAKER
 TOD = HP RATED TOGGLE SWITCH

DISCONNECT ENCLOSURE TYPES
 1 = NEMA 1 ENCLOSURE
 3R = NEMA 3R ENCLOSURE
 4 = NEMA 4 ENCLOSURE
 4X = NEMA 4X ENCLOSURE
 FPN = FUSE PER NAMEPLATE

RACEWAY TYPES
 EMT = ELECTRIC METALLIC TUBING
 FMC = FLEXIBLE METAL CONDUIT
 IMC = INTERMEDIATE METAL CONDUIT
 LFMC = LIQUID-TIGHT FLEXIBLE METAL CONDUIT
 PVC = NON-METALLIC PVC CONDUIT
 RMC = RIGID METAL CONDUIT

STARTER TYPES
 CFWR = COMBINATION FULL VOLTAGE, NONREVERSING

CONTROL DEVICES
 HOA = HAND-OFF-AUTO
 RPL = RED PILOT LIGHT
 AUX = AUXILIARY CONTACTS (2 N.O., 1 N.C.)
 CTSO = 50 VA CONTROL TRANSFORMER

NOTES

ALL ELECTRICAL CHARACTERISTICS SCHEDULED ABOVE ARE BASED ON INFORMATION AVAILABLE AT THE TIME OF DESIGN. ELECTRICAL CONTRACTOR SHALL VERIFY ELECTRICAL CHARACTERISTICS OF ALL EQUIPMENT WITH EQUIPMENT SUPPLIER(S) PRIOR TO ROUGHING, AND SHALL VERIFY EXACT LOCATION AND EXACT TYPE OF CONNECTION. ALL EQUIPMENT SHALL BE PROPERLY AND SECURELY GROUNDED. ANY SIGNIFICANT CHANGES IN LOCATION, ELECTRICAL REQUIREMENTS, OR TYPE OF CONNECTION REQUIRED FOR ANY EQUIPMENT SCHEDULED ABOVE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING PRIOR TO PROCEEDING.

CONDUCTORS AND RACEWAY SPECIFIED IN THE ABOVE SCHEDULE ARE FOR FINAL CONNECTION TO UNIT AND SHALL BE EXTENDED FROM THE DISCONNECT SHOWN ON THE FLOOR PLANS TO THE EQUIPMENT TERMINATION BOX.

CONDUIT AND BOXES REQUIRED FOR EQUIPMENT CONNECTIONS SHALL BE INSTALLED IN SUCH A WAY AS TO NOT COVER UP EQUIPMENT NAMEPLATES, SERVICE AREAS, AIR FLOW AREAS, ETC.

⊕ UTILIZE ONLY ONE POLE OF TWO POLE DISCONNECT SWITCH FOR CIRCUIT DISCONNECTION. DO NOT SWITCH CIRCUIT NEUTRAL.

⊕ FUSE PER MANUFACTURER'S RECOMMENDATION.

⊕ PROVIDE ELEVATOR DISCONNECT SWITCH WITH FORM C AUXILIARY CONTACTS FOR DISCONNECTING THE ELEVATOR CONTROLLER INTERNAL BATTERY FROM POWER SUPPLY WHEN THE ELEVATOR DISCONNECT SWITCH IS OPENED.

ABBREVIATIONS

A AMPERES	MCC MAIN CIRCUIT BREAKER
AFF ABOVE FINISHED FLOOR	MCD METAL CLAD CABLE
AFG ABOVE FINISHED GRADE	MLD MAIN LUGS ONLY
AHH FIRE ALARM ANNUNCIATOR CABINET	MNT MOUNTED
C CONDUIT	NMC NON-METALLIC CLAD CABLE
CB CIRCUIT BREAKER	PB PULLBOX
CKT CIRCUIT	PNL PANELBOARD
CLG CEILING	PS PROGRAM START
DN DOWN	PWR POWER
DW DISHWASHER	REC RECEPTACLE
EC EMPTY CONDUIT	RMC RIGID METAL CONDUIT
EMT ELECTRICAL METALLIC TUBING	RS RAPID START
EWC ELECTRIC WATER COOLER	SW SWITCH
FACP FIRE ALARM CONTROL PANEL	TIB TELEPHONE TERMINAL BOARD
FMC FLEXIBLE METAL CONDUIT	TVB TELEVISION BOARD
G GROUND	TEL TELEPHONE
GFI GROUND FAULT INTERRUPTER	TV TELEVISION
HOA HAND OFF AUTOMATIC	TYP TYPICAL
HP HORSEPOWER	V VOLTS
HPF HIGH POWER FACTOR	W WALL MOUNTED
HX HIGH REACTANCE	WP WEATHER PROOF
IMC INTERMEDIATE METAL CONDUIT	XPMR TRANSFORMER
IS INSTANT START	
JB JUNCTION BOX	
KVA KILOVOLT-AMPERES	
KWH KILOWATTS	
LFMC LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT	

MOUNTING HEIGHTS

(DISTANCE FROM FINISHED FLOOR TO CENTER OF DEVICE UNLESS OTHERWISE NOTED)

RECEPTACLE
 GENERAL 18" AFF. (UNLESS OTHERWISE NOTED)
 ABOVE COUNTER TOP 8" ABOVE COUNTER. (UNLESS OTHERWISE NOTED)

LIGHT SWITCH
 48" AFF. (UNLESS OTHERWISE NOTED)

TELECOMMUNICATIONS
 GENERAL 18" AFF. (UNLESS OTHERWISE NOTED)
 ABOVE COUNTER TOP 8" ABOVE COUNTER. (UNLESS OTHERWISE NOTED)

WALL
 48" AFF.

TELEVISION
 78" AFF. (UNLESS OTHERWISE NOTED)

FIRE ALARM
 FULL STATION 48" AFF.
 AUDIBLE/STROBE COMBINATION OR STROBE DEVICE ONLY 80" ABOVE THE FINISHED FLOOR.

G-10

The Walker Group Architecture, Inc. WALKER GROUP
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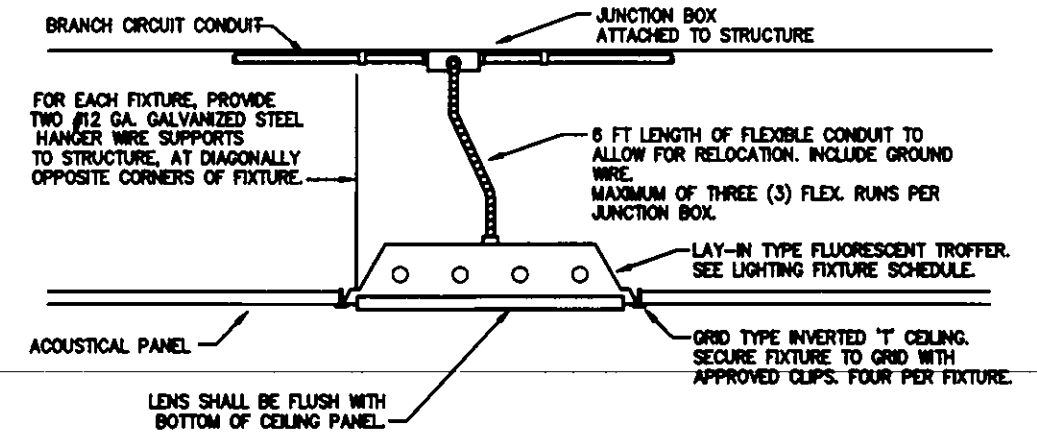
DESIGNER: DR. M. KNOTTS
 CHECKED: DR. M. KNOTTS
 SUBMITTED BY: J. WALKER
 DESIGNER: DR. B. MARSHBURN

APPROVED: PWO OR ONCC DATE: _____
 SIZE CODE IDENT. NO. NAVFAC DRAWING NO. 60009109
 CONST. CONTR. NO. R46008-11-8-0182

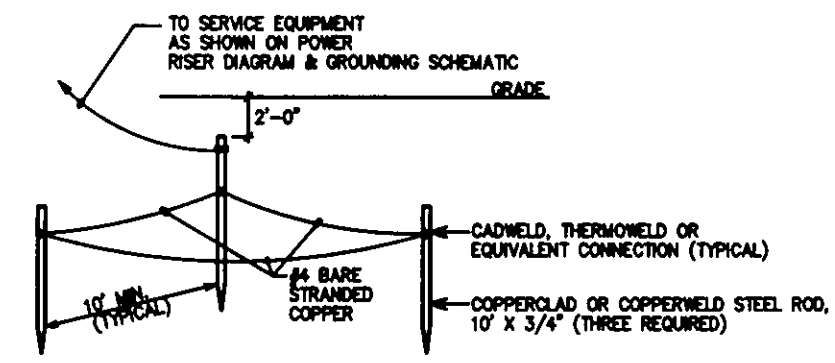
SATISFACTORY TO: _____ DATE: _____
 SCALE: NOTED SPEC. 11-0132 SHEET 13 OF 138

CONSTRUCT MARSOC FACILITIES, STONE BAY
 GENERAL ELECT. INFORMATION
 ELECTRICAL SYMBOLS AND SCHEDULES

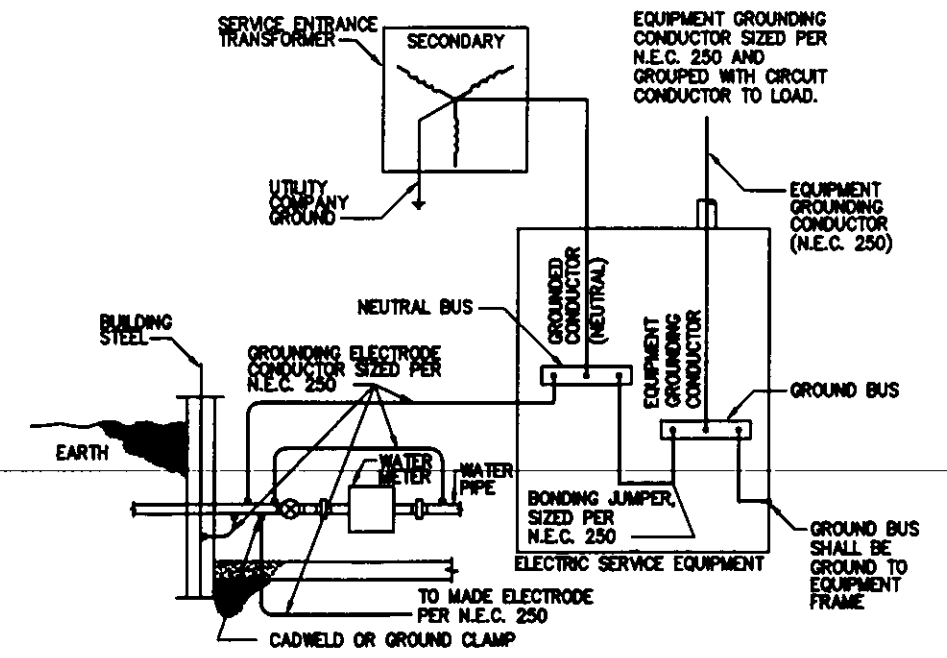
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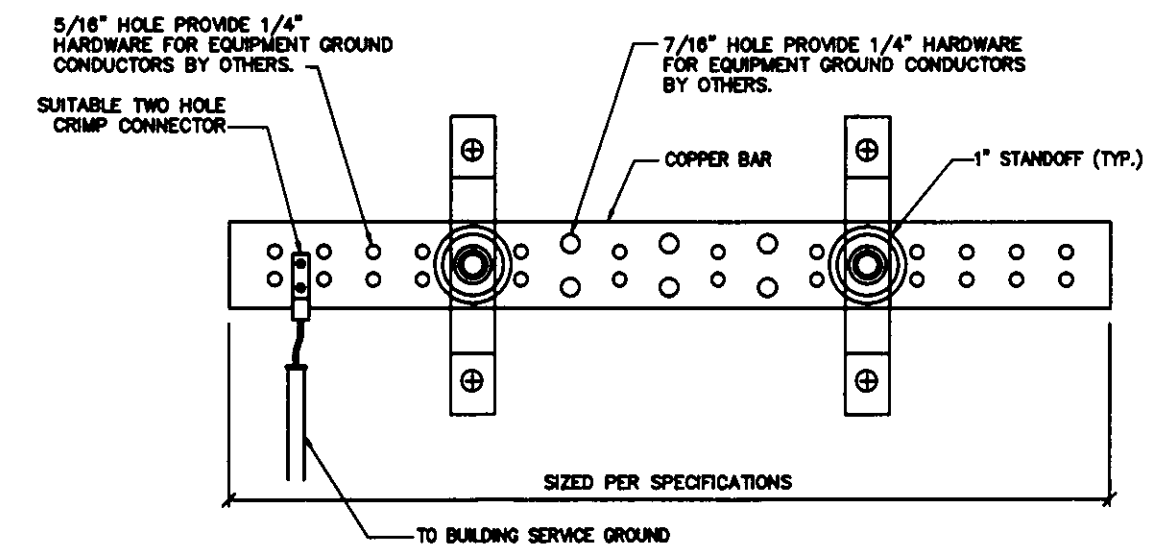
1
G11/E1
DETAIL - TYPICAL LAY-IN FIXTURE INSTALLATION
NOT TO SCALE



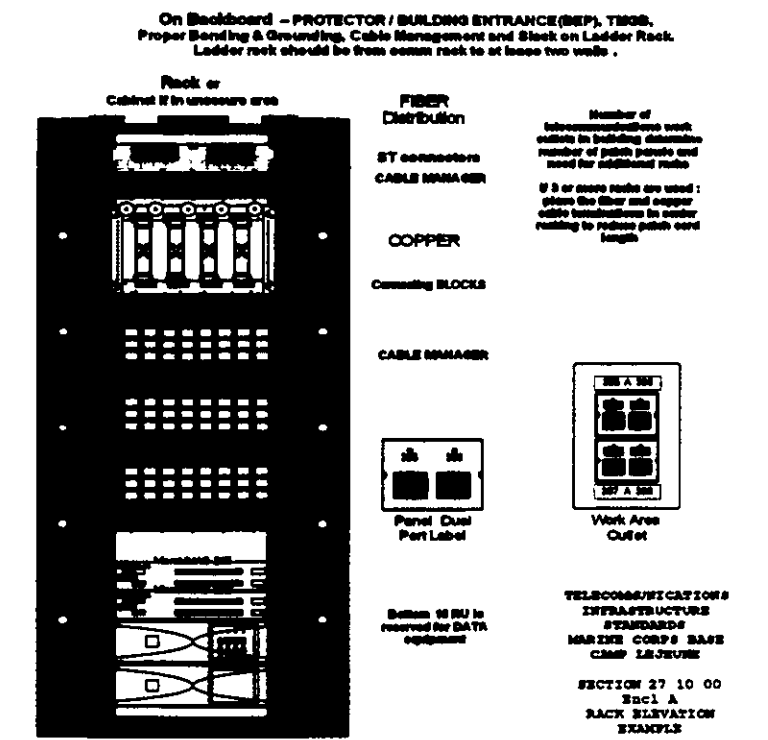
2
G11/E2
TYPICAL MADE GROUNDING ELECTRODE
NOT TO SCALE



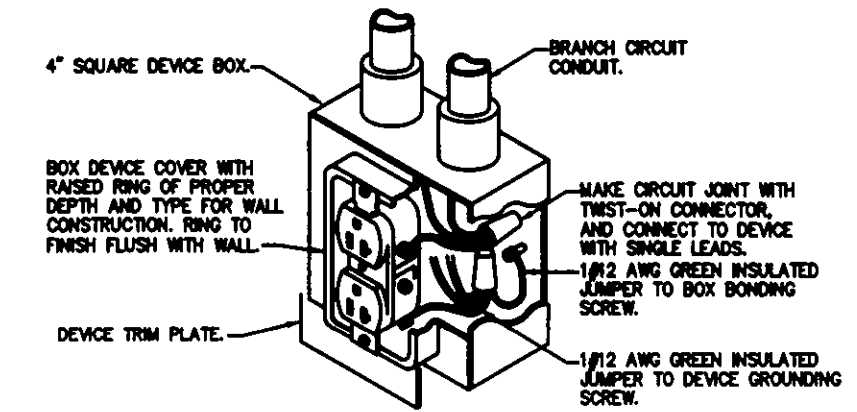
3
G11/E2
SERVICE ENTRANCE GROUNDING CONNECTION DIAGRAM
NOT TO SCALE



4
G11/E2
DETAIL - GROUND BAR FOR TELE/DATA ROOM
NOT TO SCALE



5
G11/E2
TELECOMM DETAILS
NOT TO SCALE

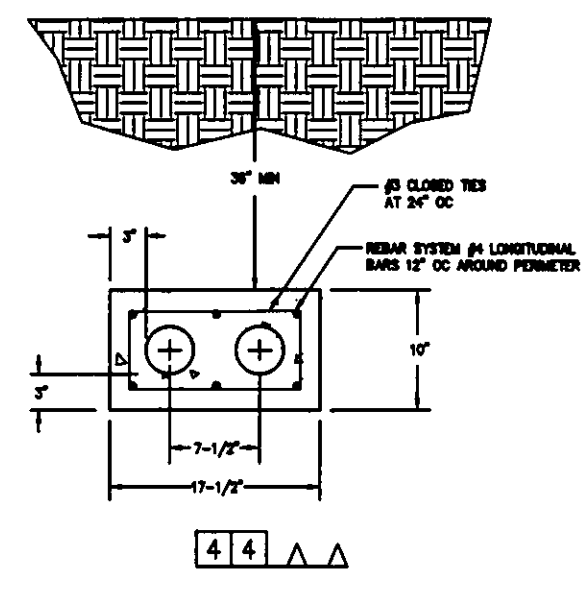


6
G11/E2
DETAIL - TYPICAL DUPLEX RECEPTACLE INSTALLATION
NOT TO SCALE

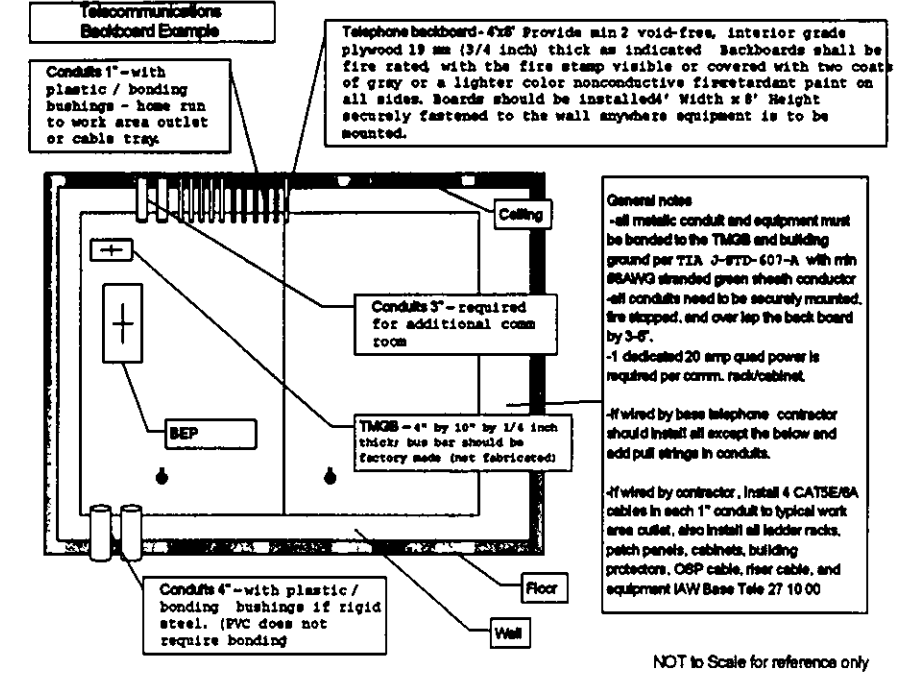
- GUIDELINES FOR PDS (SIPRNET) INSTALLATION**
- DISTANCE OFF SUPPORTING WALL: CLEARANCE TO (WALL SIDE) FACE OF 2X2 RACEWAY: 1 1/2\"/>
 - DISTANCE FROM CEILING TO TOP FACE OF 2X2 RACEWAY: 5\"/>
 - EPOXY WELD MATERIAL: ANY 2 PART EPOXY ADHESIVE (PENDING REVIEW AND ACCEPTANCE OF 3M SAMPLE JOINT)
 - EPOXY WELD MATERIAL COLOR: GRAY
 - DISTANCE (CLEARANCE) FROM FACES OF JUNCTION (OR PULL) BOX TO WALL OR CEILING SURFACE: 1\"/>
 - UNINSPECTIBLE AREAS: THE PDS IS ALLOWED TO PASS THROUGH OBSTRUCTIONS (SUCH AS WALLS) FOR A TOTAL LENGTH OF PDS EQUAL TO 16\"/>
 - EPOXY INSTALLATION: EPOXY MUST BE APPLIED TO THE 3\"/>
 - GOVERNMENT INSPECTION IS REQUIRED. INSPECTION SHALL BE INTERMITTENT, VERIFYING PROCEDURES AND INSTALLATIONS ARE IN CONFORMANCE WITH GOVERNMENT REQUIREMENTS. A FULL TIME GOVERNMENT INSPECTOR IS NOT REQUIRED.

WIRING COLORS ARE AS FOLLOWS:
TELEPHONE: WHITE AND BLUE
SIPRNET: RED AND YELLOW
PATCH PANEL: BLACK

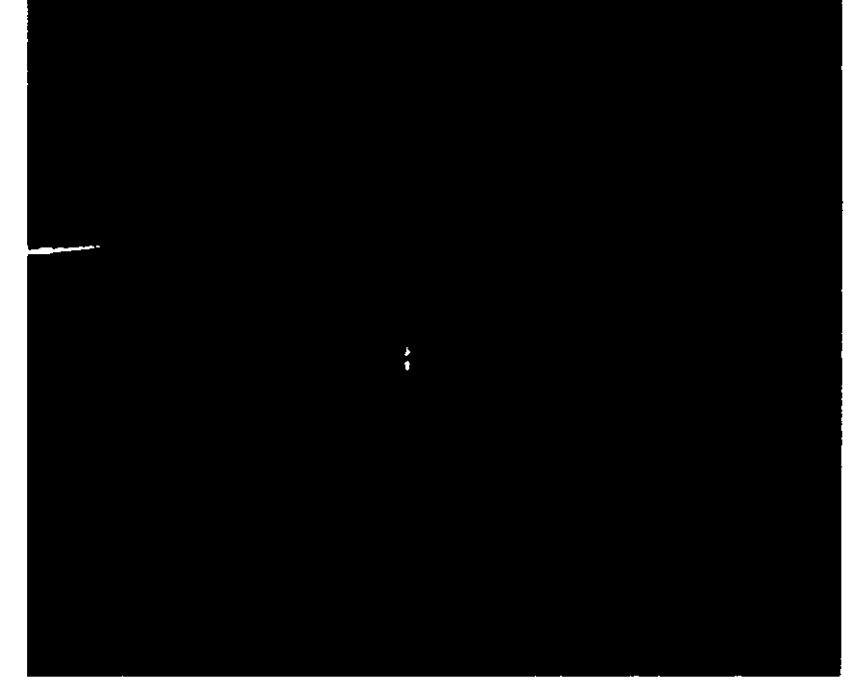
A PRE INSTALLATION MEETING SHALL BE SCHEDULED WITH THE FOLLOWING:
JAMES CAPPS (910-451-3088)
STEVE DANGL (910-451-9439)



7
G11/E2
DUCTBANK DETAIL
SCALE: NOT TO SCALE



8
G11/E2
TELECOMMUNICATIONS BACKBOARD LAYOUT
SCALE: NOT TO SCALE



9
G11/E2
SIPRNET LOCKBOX & CONDUIT EXAMPLE
NOT TO SCALE

G-11

The Walker Group Architects, Inc. WALKER ARCHITECTS
303 S. W. 10th St. Ft. Lauderdale, FL 33304
TEL: 954-561-1111 FAX: 954-561-1112

DESIGNER OF THE WORK: MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

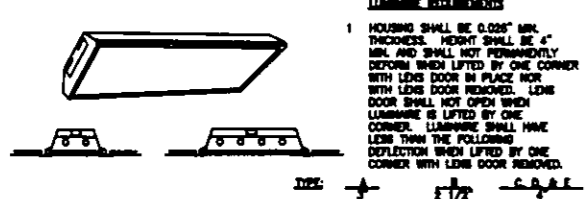
CONSTRUCT MARSOC FACILITIES, STONE BAY
GENERAL ELECT. INFORMATION
ELECTRICAL DETAILS

DESIGN DR. B. MARSHBURN

APPROVED: PWO OR OHC DATE: 6/1/01
SAISFACTORY TO: DATE: 6/1/01

SIZE: F CODE IDENT. NO: 60009110
NAVFAC DRAWING NO. 60009110
CONST. CONTR. NO. N40085-11-B-0132
SCALE: NOTED SPEC. 11-0132 SHEET 14 OF 128

SYM	REVISIONS	DATE APPROVED



LUMINAIRE REQUIREMENTS

- HOUSING SHALL BE 0.024" MIN. THICKNESS. HEIGHT SHALL BE 1" MIN. AND SHALL NOT PERMANENTLY DEFORM WHEN LIFTED BY ONE CORNER WITH LEAD DOOR REMOVED. LEAD DOOR SHALL NOT OPEN HIGH. LUMINAIRE IS LIFTED BY ONE CORNER. LUMINAIRE SHALL HAVE LEAD DOOR WITH LEAD DOOR REMOVED.
- HOUSING SHALL BE CHEMICALLY TREATED FOR RUST PREVENTION AND HAVE BAKED WHITE ENAMEL FINISH. HOUSING SHALL HAVE INTERNAL GREEN GROUNDING SCREW.
- LOCKS SHALL BE A 0.024" MINIMUM THICKNESS STEEL OR 0.017" MINIMUM THICKNESS STAINLESS STEEL.
- LEAD DOOR SHALL BE 0.024" MINIMUM THICKNESS STEEL, SHALL BE ASSEMBLED WITH SCREWS OVER LEAD DOOR. PROVIDE LIGHT TIGHT FIT WITHOUT NORMAL SWIPER. SWIPER SHALL NOT BE A MEANS OF ACHIEVING LIGHT TIGHT DOOR.
- LENS SHALL BE 0.130" THICK FOR TYPES A, C, D, AND 0.125" THICK FOR TYPE B. PLUS OR MINUS 0.001" MIN. FROM POLYCARBONATE LENS PRISMATIC LENS ACrylic.
- DOOR SHALL BE CAPABLE OF HINGING AND LOCKING FROM EITHER SIDE OF LUMINAIRE. PROVIDE BATTERY TYPE HEADS.
- BALLAST SHALL BE HIGH POWER FACTOR (≥ 90) INSTANT START CLASS P ELECTRONIC BALLAST WITH SOUND RATING OF 2". SECURE BALLAST TO HOUSING WITH AT LEAST ONE SCREW AND SLIP-ON BRACKET OR 2 SCREWS - ONE AT EACH END.
- PHOTOMETRIC: MINIMUM COEFFICIENT OF UTILIZATION (CU) FOR THE FOLLOWING CAVITY REFLECTANCE: CEILING = 80% WALL = 50% FLOOR = 20%


ROOM CAVITY RATIO	TYPE A	TYPE B	TYPE C	TYPE D
1	84	80	71	68
2	85	81	72	69
3	86	82	73	70
4	87	83	74	71

MIN. SPACING CRITERIA:
TYPE A - 2 1/2"
TYPE B - 2 1/2"
TYPE C - 2 1/2"
TYPE D - 2 1/2"

PROVIDE MOUNTING HORIZONTAL COMPATIBLE WITH CEILING MATERIAL IN WHICH LUMINAIRE IS TO BE INSTALLED.

TYPE A - 2 F28/T5 LAMP
TYPE B - 2 F28/T5 LAMP
TYPE C - 2 F28/T5 LAMP
TYPE D - 2 F28/T5 LAMP

FLUORESCENT TROFFER LUMINAIRE LENS TYPE
SKETCH DATE: JUNE 2002 STYLE: NL-3



LUMINAIRE REQUIREMENTS

- 0.024" MINIMUM THICKNESS STEEL BACK PLATE AND REFLECTOR. CHEMICAL TREATMENT FOR RUST PREVENTION. BAKED WHITE ENAMEL FINISH. PROVIDE KNOCKOUTS THROUGH BACK PLATE. HOUSING SHALL HAVE INTERNAL GREEN GROUNDING SCREW.
- 0.024" MINIMUM THICKNESS FORMED STEEL OR EXTRUDED ALUMINUM HOUSING. BAKED BLACK ENAMEL OR BLENDED ALUMINUM FINISH OR WOOD GRAIN WITH OR WITHOUT HOUSING LENSES RECESSED OTHERWISE. STEEL HOUSING SHALL HAVE ALL JOINTS WELDED AND GROUND SMOOTH. HOUSING SHALL BE PAINTED AFTER FABRICATION.
- MINIMUM OVERALL LUMINAIRE HEIGHT SHALL BE 8-1/2" INCHES. MINIMUM LUMINAIRE DEPTH SHALL BE 8 INCHES. TYPE A - 8 INCHES TYPE B - 8 INCHES
- LOWER LENS SHALL BE CLEAR SINGLE PRISM LENS ACrylic. HOUSING SHALL BE 0.110" THICK PLUS OR MINUS 0.001" TOLERANCE. UPPER LENS SHALL BE 0.110" THICK PLUS OR MINUS 0.001" TOLERANCE. HOUSING SHALL HAVE 0.001" TOLERANCE.
- LENS SHALL BE PRISMATIC TO REDUCE LIGHT. PREVENTING DIRECT GLARE AT HIGH ANGLES. HOUSING OR LUMINAIRE SHALL HAVE 0.001" TOLERANCE.
- LENS SHALL HAVE 0.001" TOLERANCE FOR HINGING LEVEL OR POSITIVE MEANS OF HOLDING LENS IN PLACE.
- LUMINAIRE SHALL PROVIDE UP AND DOWN LIGHT. UP LIGHT SHALL BE SEPARATELY SWITCHED INSIDE HOUSING. LAMP SHALL BE LOCATED ON TOP AND BOTTOM.
- BALLAST SHALL BE HIGH POWER FACTOR (≥ 90) INSTANT START CLASS P ELECTRONIC BALLAST WITH SOUND RATING OF 2". SECURE BALLAST TO HOUSING WITH AT LEAST ONE SCREW AND SLIP-ON BRACKET OR 2 SCREWS - ONE AT EACH END.
- PHOTOMETRIC: MINIMUM COEFFICIENT OF UTILIZATION (CU) FOR THE FOLLOWING CAVITY REFLECTANCE: CEILING = 80% WALL = 50% FLOOR = 20%


ROOM CAVITY RATIO	TYPE A	TYPE B
1	84	80
2	85	81
3	86	82
4	87	83

MIN. SPACING CRITERIA:
TYPE A - 2 F28/T5 LAMP
TYPE B - 2 F28/T5 LAMP

PROVIDE MOUNTING HORIZONTAL COMPATIBLE WITH CEILING MATERIAL IN WHICH LUMINAIRE IS TO BE INSTALLED.

TYPE A - 2 F28/T5 LAMP
TYPE B - 2 F28/T5 LAMP

WALL-MOUNTED FLUORESCENT
SKETCH DATE: JUNE 2002 STYLE: NL-4



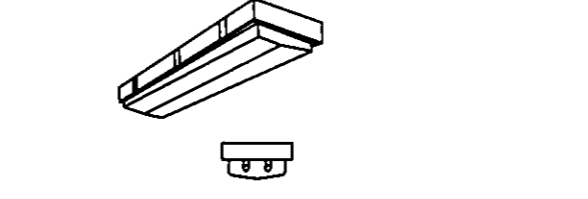
LUMINAIRE REQUIREMENTS

- HOUSING SHALL BE 0.024" MINIMUM THICKNESS FORMED COLD ROLLED STEEL. CHEMICALLY TREATED FOR RUST PREVENTION AND FINISHED WITH BAKED ENAMEL OR POLYESTER FINISH. PROVIDE TOP AND END KNOCKOUTS IN FIXTURE AND METAL END PLATES.
- HOUSING WELDED OR SECURED BY SCREWS, RIVETS OR SHIP TOGETHER TABS AND SLOTS, INTO A SINGLE ASSEMBLY. PROVIDE INTERNAL GREEN GROUNDING SCREW.
- REFLECTOR SHALL BE 0.017" MINIMUM THICKNESS STEEL (SOLID WHEN LUMINAIRE IS MOUNTED BELOW CEILING, ETC.). 10-20% APERTURE WHEN PROTECTED FROM FALLING OBJECTS. PROVIDE 30° SHIELDING CENTER VEE. CHEMICALLY TREAT FOR RUST PREVENTION AND FINISH WITH BAKED ENAMEL, PORCELAIN ENAMEL, OR POLYESTER FINISH. MINIMUM REFLECTANCE SHALL BE 80%.
- THE LUMINAIRE SHALL NOT PERMANENTLY DEFORM WHEN LIFTED BY ONE CORNER.
- MINIMUM SPACING CRITERIA: 1.3
- LUMINAIRE SHALL BE CAPABLE OF CONTINUOUS ROW AND SINGLE UNIT PLACEMENT WITH FREQUENT OR SURFACE MOUNTING.
- BALLAST SHALL BE HIGH POWER FACTOR (≥ 90) INSTANT START CLASS P ELECTRONIC BALLAST WITH A SOUND RATING OF 2".

ROOM CAVITY RATIO	TYPE A	TYPE B
1	84	80
2	85	81
3	86	82
4	87	83

MIN. SPACING CRITERIA:
TYPE A - 2 F28/T5 LAMP
TYPE B - 2 F28/T5 LAMP

INDUSTRIAL FLUORESCENT
SKETCH DATE: JUNE 2002 STYLE: NL-6



LUMINAIRE REQUIREMENTS

- MOLDED 100% ACRYLIC DIFFUSE LENS (NOT CLEAR) FULLY GASKETED WITH FIBERGLASS OR PLASTIC HOUSING.
- PROVIDE A MINIMUM OF 8 PLASTIC LATCHES TO SECURE LENS.
- BALLAST SHALL BE HIGH POWER FACTOR (≥ 90) INSTANT START CLASS P ELECTRONIC BALLAST WITH A SOUND RATING OF 2". SECURE BALLAST TO HOUSING WITH AT LEAST ONE SCREW AND SLIP-ON BRACKET OR 2 SCREWS - ONE AT EACH END.
- UL LISTED FOR DAMP OR WET LOCATION AS INDICATED.
- OVERALL LUMINAIRE LENGTH SHALL BE 48" NOMINAL.
- MINIMUM COEFFICIENT OF UTILIZATION (CU) WITH CAVITY REFLECTANCES OF 80% CEILING, 50% WALLS AND 20% FLOOR SHALL BE:

ROOM CAVITY RATIO	TYPE A	TYPE B
1	84	80
2	85	81
3	86	82
4	87	83

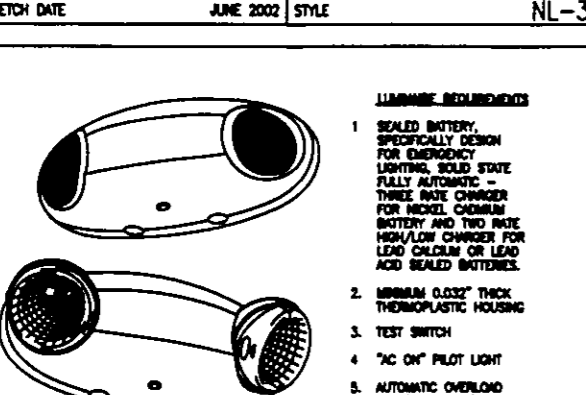
MIN. SPACING CRITERIA: 1.5

HOUSING SHALL HAVE INTERNAL GREEN GROUNDING SCREW.

TYPE A - 1 F28/T5 LAMP
TYPE B - 2 F28/T5 LAMP

UL LISTED FOR DAMP LOCATIONS.
UL LISTED FOR WET LOCATIONS.

WET/DAMP LOCATION LUMINAIRE
SKETCH DATE: JUNE 2002 STYLE: NL-8



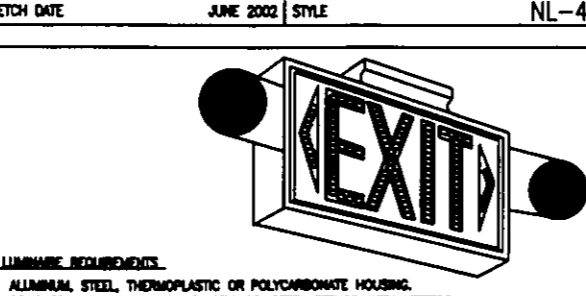
LUMINAIRE REQUIREMENTS

- SEALED BATTERY, SPECIFICALLY DESIGN FOR EMERGENCY LIGHTING. SOLID STATE FULLY AUTOMATIC THREE RATE CHARGER FOR NICKEL CADMIUM BATTERY AND TWO RATE HIGH-FLOW CHARGER FOR LEAD ACID OR LEAD ACID SEALED BATTERIES.
- MINIMUM 0.024" THICK THERMOPLASTIC HOUSING.
- TEST SWITCH.
- 7C ON/PILOT LIGHT.
- AUTOMATIC OVERLOAD PROTECTION - FUSE OR CIRCUIT BREAKER.

- HEADS SHALL BE FULLY ADJUSTABLE VERTICALLY AND HORIZONTALLY.
- SCALED BEAM HALOGEN PAR-38 LAMPS. MINIMUM 12 WATT.
- INPUT VOLTAGE AS INDICATED.
- LOW VOLTAGE, DEEP DISCHARGE DISCONNECT.
- PROVIDE INTERNAL GREEN GROUNDING SCREW.

NOTES:
1. UNIT NOT AVAILABLE WITH WET LABEL.
2. UNIT IS AVAILABLE WITH DAMP LABEL.

EMERGENCY LIGHTING UNIT
SKETCH DATE: JUNE 2002 STYLE: NL-51

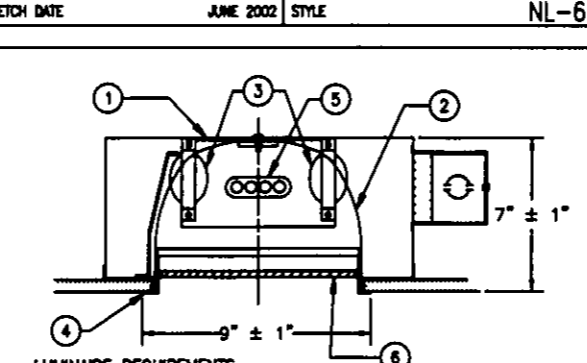


LUMINAIRE REQUIREMENTS

- ALUMINUM STEEL, THERMOPLASTIC OR POLYCARBONATE HOUSING.
- BRUSHED ALUMINUM, THERMOPLASTIC OR STEEL, STEEL, WITH LETTERS 8 INCHES TALL & 3/4 INCH WIDE STROKES AND PUNCH-OUT FACE FOR LETTERS OR INTERMEDIATE LED ILLUMINATION.
- RED ILLUMINATION PROVIDED BY LIGHT EMITTING DIODES (LED). APPROXIMATELY 120 LED'S PER FACE. (NOT REQUIRED FOR INTERNALLY ILLUMINATED SIGNS).
- CLEAR PROTECTIVE NON-BREAKABLE LENS TO PROTECT LED'S. (NOT REQUIRED FOR INTERNALLY ILLUMINATED SIGNS).
- PROVIDE FAILURE BROWN OUT PROTECTION & BURST PROTECTION.
- PROVIDE 16-CELL BATTERY POWER & SOLID STATE TYPE CHARGER.
- PROVIDE UNIVERSAL, REMOVABLE & BLOW-OFF PLATES.
- PROVIDE SINGLE OR DOUBLE FACE AS INDICATED ON PLANS.
- PROVIDE UNIVERSAL MOUNTING.
- UNITS MOUNTED EXPOSED TO THE ELEMENTS OR IN CLASSIFIED AREAS SHALL HAVE UL LABEL AS INDICATED.
- PROVIDE INTERNAL GREEN GROUNDING SCREW.
- PROVIDE TEST BUTTON IN BOTTOM OF HOUSING.
- PROVIDE INDICATOR LIGHTS IN FACE TO INDICATE WHEN UNIT IS ON NORMAL POWER OR ON BATTERY POWER.
- HOUSING SHALL HAVE A LIMITED WHITE FINISH, EXCEPT AS SPECIFIED OTHERWISE.
- LAMP HEADS (ROUND OR RECTANGULAR) AND SHALL BE FULLY ADJUSTABLE.
- SWITCHING AND CONTROLS-FULLY AUTOMATIC, 90 MINUTE OPERATION COMPLETELY SOLID STATE WITH AUTO TRANSFER AND LOW VOLTAGE CUTOFF. TEST SWITCH AND HIGH RATE INDICATING LIGHT.

NOTES:
1. UNIT NOT AVAILABLE WITH WET LABEL.
2. UNIT IS AVAILABLE WITH DAMP LABEL.

LED EXIT SIGN
SKETCH DATE: NOV 1996 CLNC STYLE: NL-61A

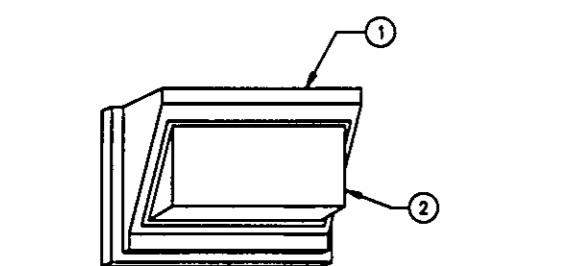


LUMINAIRE REQUIREMENTS

- HOUSING - ALUMINUM OR STEEL WITH BAKED ENAMEL FINISH. (12" X 12" ± 1/16") PROVIDE INTERNAL GREEN GROUNDING SCREW.
- REFLECTOR-SPECULAR ALUMINUM.
- HIGH POWER FACTOR (≥ 90) ELECTROMAGNETIC BALLAST.
- TRIM FLANGE-WHITE ACRYLIC PAINT OR ALUMINUM AS INDICATED.
- LAMPS-COMPACT FLUORESCENT, SIZE AS INDICATED.
- LENS-FLAT PRISMATIC GLASS OR OPAL AS INDICATED.
- MINIMUM FIXTURE EFFICIENCY-44%.
- MINIMUM SPACING CRITERIA: 1.2
- FIXTURE SHALL BE UL LISTED.

TYPE A - 2 F9/T4 TWIN TUBE COMPACT FLUOR. LAMPS.
TYPE B - 2 F13/T4 TWIN TUBE COMPACT FLUOR. LAMPS.

RECESSED ROUND, LENS TYPE COMPACT FLUORESCENT
SKETCH DATE: JUNE 2002 STYLE: NL-17

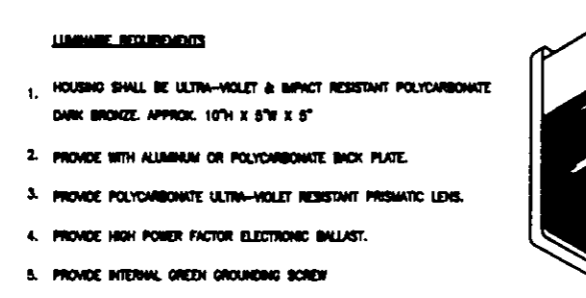


LUMINAIRE REQUIREMENTS

- HOUSING-DECAST ALUMINUM SEALED AND GASKETED. UL LISTED FOR WET LOCATIONS. PROVIDE INTERNAL GREEN GROUNDING SCREW (DIMENSIONS APPROXIMATELY 18 1/2" X 10 1/2" X 11 1/2").
- REFLECTOR-BOROSILICATE PRISMATIC GLASS. PROVIDE ALUMINUM REFLECTOR.
- BALLAST-HIGH POWER FACTOR (≥ 90) ENCASED AND POTTED MULTI-VOLTAGE.
- FINISH DARK GRAY.
- LAMP SOCKET SHALL BE ADJUSTABLE.
- PROVIDE INTERNAL PHOTOCELL.

TYPE A - 70W HIGH PRESSURE SODIUM
TYPE B - 100W HIGH PRESSURE SODIUM
TYPE C - 150W HIGH PRESSURE SODIUM
TYPE D - 200W METAL HALIDE
TYPE E - 30W LOW PRESSURE SODIUM

EXTERIOR COMMERCIAL WALL MOUNT H.I.D.
SKETCH DATE: JUNE 2002 STYLE: NL-25



LUMINAIRE REQUIREMENTS

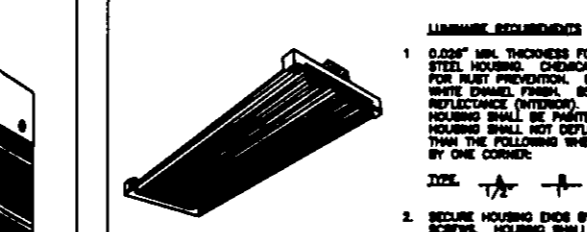
- HOUSING SHALL BE ULTRA-VIOLET & IMPACT RESISTANT POLYCARBONATE. DARK BRONZE. APPROX. 10 1/2" X 6 1/2" X 5".
- PROVIDE WITH ALUMINUM OR POLYCARBONATE BACK PLATE.
- PROVIDE POLYCARBONATE ULTRA-VIOLET RESISTANT PRISMATIC LENS.
- PROVIDE HIGH POWER FACTOR ELECTRONIC BALLAST.
- PROVIDE INTERNAL GREEN GROUNDING SCREW.
- PROVIDE UL WET LABEL.
- PROVIDE MAINTENANCE FREE, SEALED NICKEL CADMIUM BATTERY. BATTERIES SUPPLIED SHALL HAVE A 5 YEAR FULL WARRANTY. BATTERY CHARGER SHALL MEET UL 924 STANDARD.
- POWER REQUIREMENTS: 120 VOLT, 0.15 AMP'S & 17 WATTS.
- PROVIDE INTERNAL PHOTOCELL.

LAMP REQUIREMENTS

TYPE A:
NORMAL ILLUMINATION: 1-13 WATT COMPACT FLUORESCENT,
EMERGENCY ILLUMINATION: 2-4 VOLT, 4 WATT DC NON-SCREWED

TYPE B:
NORMAL ILLUMINATION: 2-28 WATT COMPACT FLUORESCENT

EXTERIOR WALL MOUNT FLUORESCENT COMBINATION EMERGENCY LUMINAIRE
SKETCH DATE: JUNE 2002 STYLE: NL-26A



LUMINAIRE REQUIREMENTS

- 0.024" MIN. THICKNESS FORMED STEEL HOUSING. CHEMICAL TREATMENT FOR RUST PREVENTION. BAKED WHITE ENAMEL FINISH. PROVIDE KNOCKOUTS THROUGH BACK PLATE. HOUSING SHALL HAVE INTERNAL GREEN GROUNDING SCREW.
- SECURE HOUSING BACK BY RIVETS OR SCREWS. HOUSING SHALL HAVE INTERNAL GREEN GROUNDING SCREW.
- OVERALL LUMINAIRE NOMINAL DIMENSIONS (± 3/4") SHALL BE:

TYPE	DEPTH	WIDTH	HEIGHT
A	24 3/4"	17 1/2"	4 3/8"
B	24 3/4"	17 1/2"	4 3/8"

TYPE A - 4 F54/T5HO LAMPS
TYPE B - 8 F54/T5HO LAMPS

PHOTOMETRIC: MINIMUM COEFFICIENT OF UTILIZATION (CU) FOR THE FOLLOWING CAVITY REFLECTANCE: CEILING = 80% WALL = 50% FLOOR = 20%

ROOM CAVITY RATIO	TYPE A	TYPE B
1	84	80
2	85	81
3	86	82
4	87	83

ENERGY SAVING FLUORESCENT HIGH BAY LUMINAIRE
SKETCH DATE: JUNE 2002 STYLE: NL-22

LIGHTING FIXTURE SCHEDULE					
FIXTURE SYMBOL	SKETCH NO. & TYPE	NUMBER AND TYPE OF LAMPS	VOLTAGE	MOUNTING	NOTES
△	NL-3, TYPE D	3 - F28/T5	120	CEILING, RECESSED	--
△	NL-4, TYPE B	2 - F28/T5	120	WALL, OVER MIRROR	OPTION 1
△	NL-5, TYPE B	2 - F15/T5	120	WALL, OVER DOOR	--
△	NL-22, TYPE A	4 - F54/T5HO	120	SUSPENDED, 12" FROM STRUCTURE	--
△	NL-25, TYPE D	1 - 100W MH	120	WALL	--
△	NL-28A, TYPE A	1 - F13/T4 2 - 4W INC	120	WALL	◇
△	NL-17, TYPE B	2 - F13/T4	120	CEILING, RECESSED	DAMP LOCATION LABEL
△	NL-3, TYPE D	2 - F28/T5	120	CEILING, RECESSED	--
△	NL-5, TYPE A	2 - F28/T5	120	SUSPENDED, 12" FROM STRUCTURE	--
△	NL-5, TYPE B	2 - F28/T5	120	CEILING, SURFACE	--
●	NL-51	2 - PAR 38	120	WALL OR CEILING	◇ PROVIDE MOUNTING AS SHOWN ON PLAN
●	NL-61A	LED	120	WALL OR CEILING	◇ PROVIDE MOUNTING AS SHOWN ON PLAN

- NOTES:**
- ◇ MOUNT 12" BELOW CEILING TO TOP OF FIXTURE FOR WALL MOUNTING.
 - ◇ COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECT.
 - ◇ PROVIDE FIXTURES INDICATED AS EMERGENCY WITH REMOTE MOUNTED BATTERY PACK LOCATED IN NEAREST ACCESSIBLE CEILING.

G-12

MARINE CORPS BASE
CAMP LEAUME, NORTH CAROLINA

CONSTRUCT MARSOC FACILITIES, STONE BAY
GENERAL ELECT. INFORMATION
ELECTRICAL LIGHTING FIXTURE DETAILS

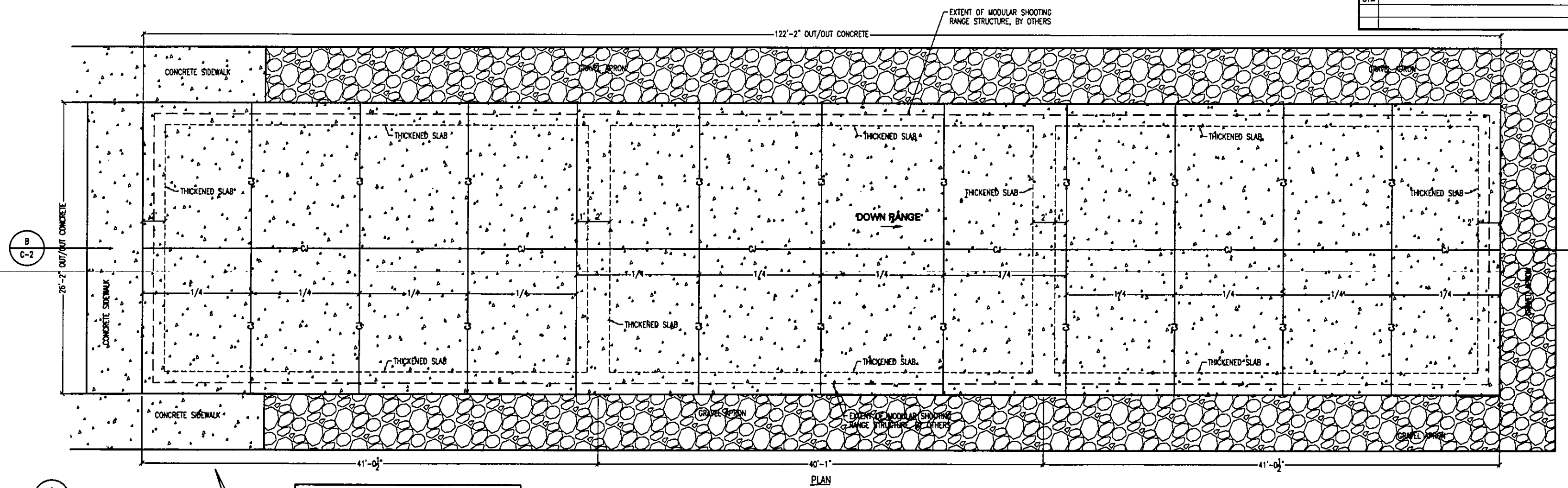
DESIGNER: M. KNOTTS
CHECKED: M. ARRINGTON
SUBMITTED BY: J. WALKER
DESIGN DR. B. MARSHBURN

APPROVED: PWD OR OGC DATE: _____
SAISFACTORY TO: _____ DATE: _____

NAVYAC DRAWING NO. 60009111
CONST. CONTR. NO. H40090-11-B-0182

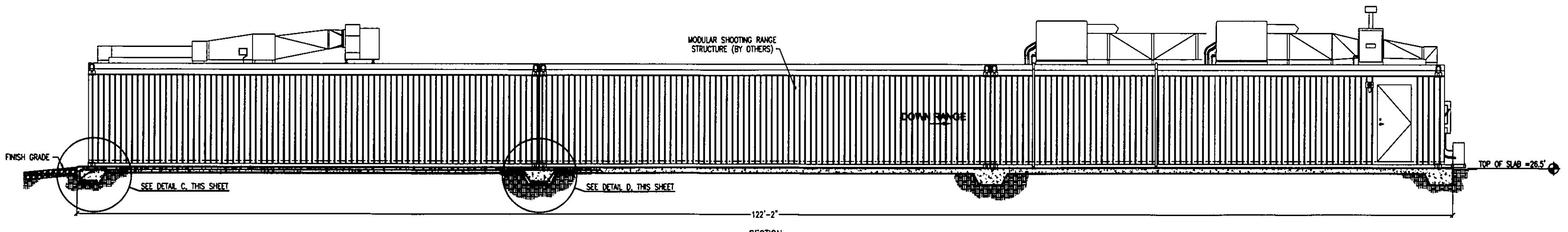
SCALE: NOTED SPEC. 11-0152 SHEET 15 OF 128

REVISIONS		DATE	APPROVED
SYM			

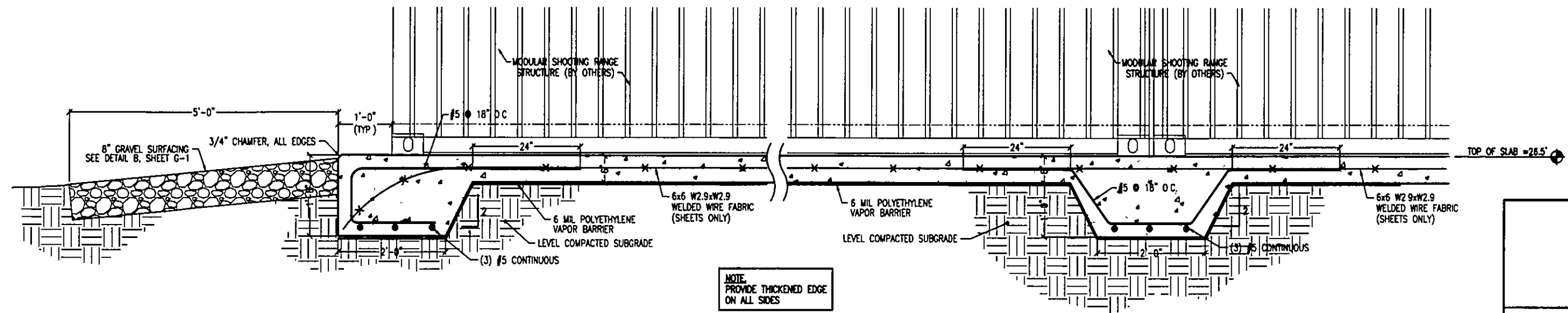


A PLAN VIEW-SATS PAD FOUNDATION
C-1-C-2 SCALE: 1/4"=1'-0"

EJ = EXPANSION JOINT, SEE DETAIL H, SHEET G-1
CJ = CONTRACTION JOINT, SEE DETAIL H, SHEET G-1



B SECTION-SATS PAD FOUNDATION
C-2-C-2 SCALE: 1/4"=1'-0"



C DETAIL
C-2C-2 SCALE: 1"=1'-0"

D DETAIL
C-2C-2 SCALE: 1"=1'-0"

NOTE: PROVIDE THICKENED EDGE ON ALL SIDES



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NEW BERN, NC 28561
PH: (252) 633-0266, FAX: (252) 633-0807

		C-2	
		MARINE CORPS BASE <small>CAMP LEESMIRE, NORTH CAROLINA</small>	
CONSTRUCT MARSOC FACILITIES, STONE BAY SOF SATS PAD FOUNDATION PLAN, SECTION AND DETAILS		NAVFAC DRAWING NO. 60009153	
DESIGN DR. BRIAN R. MARSHBURN, P.E. APPROVED: PWD OR CEC	DATE F 80091	CODE IDENT NO. 60009153	NAVFAC DRAWING NO. 60009153
SATFACTORY TO:	DATE:	SCALE: NOTED	SPEC: 06-11-0132
		SHEET 57 OF 126	

