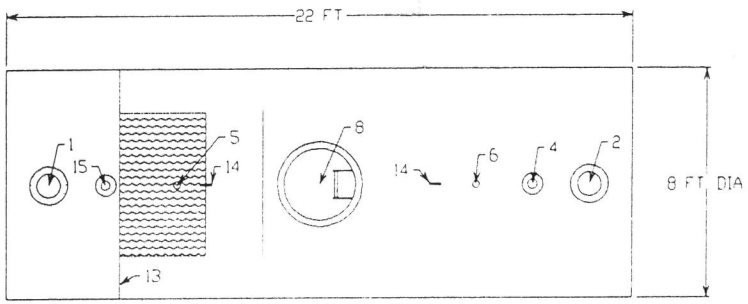
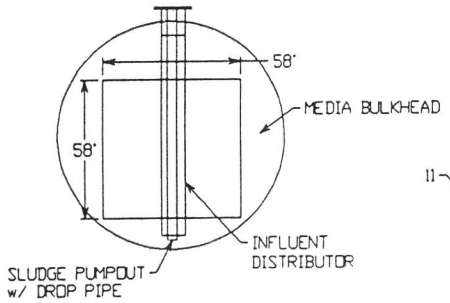
ITEM	QTY	TYPE	DESCRIPTION
1	1	10" FL	INFLUENT
2	1	10" FL	EFFLUENT
3	2	2" NPT	MANWAY EXT. VENT
4	1	4" FL	OIL PUMPOUT
5	1	2" NPT	VENT
6	1	2" NPT	LEVEL SENSOR
7	1	-	SLUDGE BAFFLE
8	1	30"	MANWAY
9	1	30"x3'	MANWAY EXTENSION
10	1	-	ACCESS LADDER
11	2	A/R	SACRIFICIAL ANODE
12	1	PVC	COALESCING MEDIA
13	1	-	MEDIA BAFFLE
14	2	A/R	LIFTING LUGS
15	1	4" FL	SLUDGE PUMPOUT



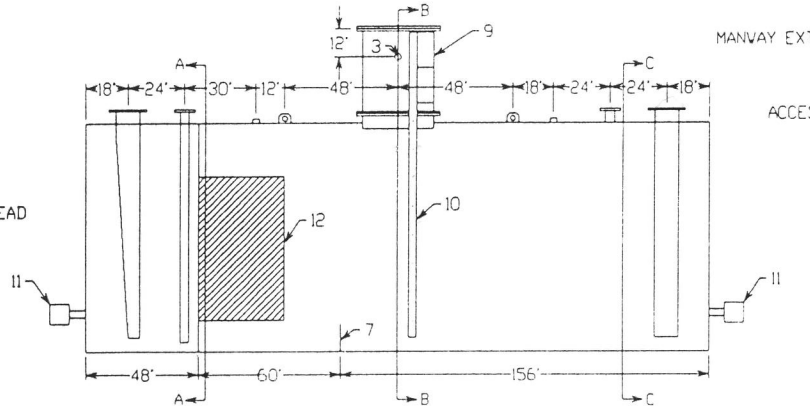
TOP VIEW

NOTES

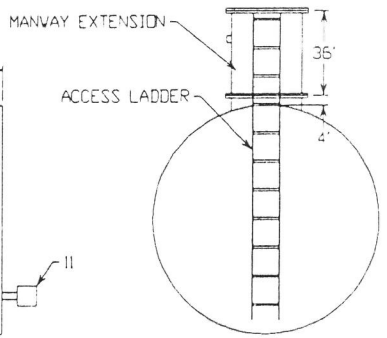
1. USE A36 STEEL FOR TANK WALLS. THICKNESS PER UL-58. USE SAME MATERIAL FOR INTERNALS UNLESS OTHERWISE NOTED.
2. TANK CONSTRUCTION TO BE SINGLE WALL.
3. EXTERIOR SURFACES TO BE SANDBLASTED TO SSPC-SP10 AND COATED WITH POLYURETHANE TO MINIMUM 9 MILS DFT.
4. INCLUDE UL-58 AND sti-P3 APPROVAL LABELS.
5. INCLUDE ID PLATES FOR BOTH TANK MANUFACTURER AND MAIN MANUFACTURER WHICH INCLUDES MODEL #, JOB #, AND JOB NAME.
6. LIFTING LUGS TO BE PROPERLY SIZED FOR WEIGHT AND LOCATED FOR BALANCE BY TANK MANUFACTURER.
7. SACRIFICIAL ANODES SIZED PER sti-P3 SPECIFICATIONS.
8. ALL CONNECTIONS TO EXTERNAL PIPING MUST USE DIALECTRIC BUSHINGS PROVIDED BY TANK MANUFACTURER.
9. MANWAYS TO INCLUDE EXTENSION, COVER, GASKETS, AND STAINLESS STEEL HARDWARE BY TANK MANUFACTURER.
10. TANK MANUFACTURER TO PROVIDE HOLDDOWN STRAPS WITH NEOPRENE ISOLATION AND ANCHOR BOLTS.



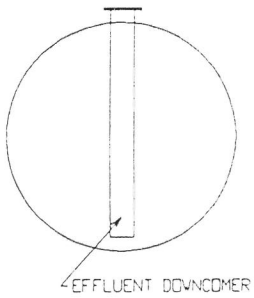
SECTION A-A



ELEVATION VIEW



SECTION B-B



SECTION C-C

OWS 2, BLDG. 606

Remedial Systems, Inc.
56 Leonard Street Foxboro, MA 02035
Ph: (508) 543-1512 FAX: (508) 543-7485

Rev	Date	Description

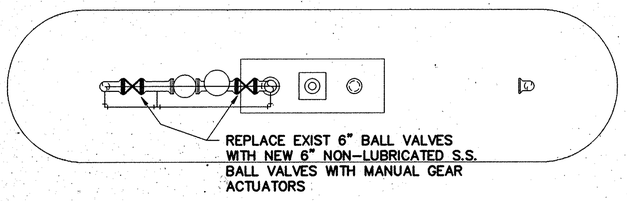
Drawing Name: 934TH LOGISTICS GROUP O/V SEPARATOR

For: OWS-03-1694-MN. ENVIRONMENTAL SYSTEMATICS

Drn by: CEG (LJS) Date: 8/2/94 Rev:

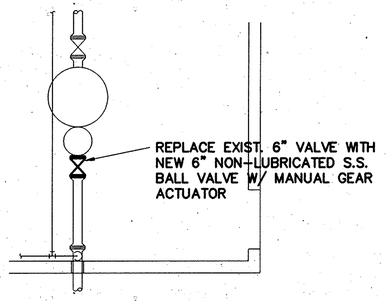
File Name: OWS1361 Scale: NTS

FQ 33-19-1-8-12



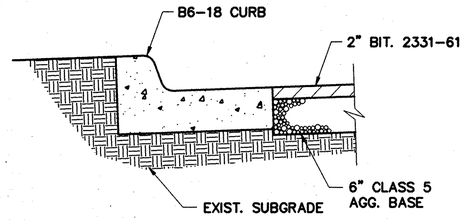
PLAN VIEW – TRUCK FILL STAND (1 / C-2)

SCALE 1/4" = 1'-0"



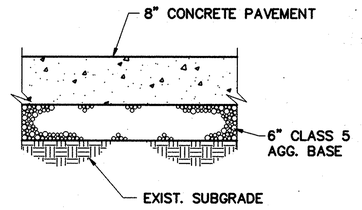
PARTIAL PUMPHOUSE PLAN (2 / C-2)

SCALE: 1/4" = 1'-0"



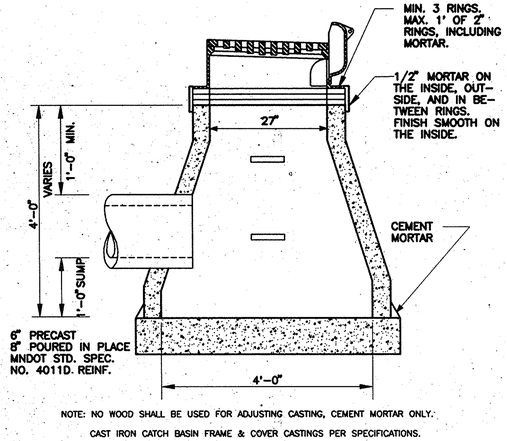
CURB SECTION (3 / C-2)

SCALE: 1"=1'-0"



PAVEMENT SECTION (4 / C-2)

SCALE: 1"=1'-0"



NOTE: NO WOOD SHALL BE USED FOR ADJUSTING CASTING, CEMENT MORTAR ONLY.

CAST IRON CATCH BASIN FRAME & COVER CASTINGS PER SPECIFICATIONS.

MANHOLE STEPS SHALL CONFORM WITH MNDOT STANDARD PLATE 4180H, EXCEPT THAT LOCATION SHALL BE AS NOTED IN THE SPECIFICATIONS.

USE 4' STANDARD CONCENTRIC CONE SECTION.

PRECAST REINFORCED CONCRETE MANHOLE SECTIONS PER ASTM C478.

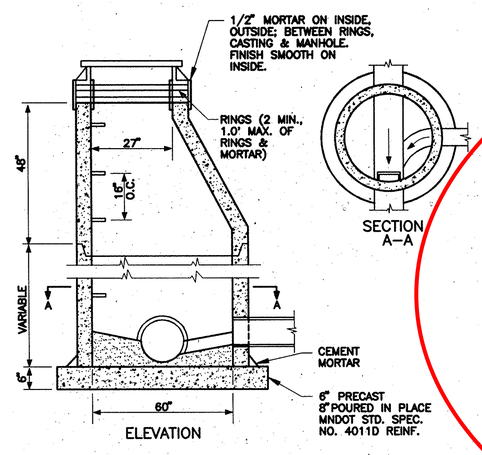
FILL OPENING BETWEEN PIPE AND MANHOLE WALL WITH CEMENT MORTAR. INSIDE SURFACE SHALL BE FINISHED SMOOTH.

PRECAST BASE SLAB MNDOT SPEC. 4011D REINF.

CONE TYPE CATCH BASIN (WITH SUMP)

CATCH BASIN DETAIL (5 / C-2)

NO SCALE



NO WOOD SHALL BE USED FOR ADJUSTING CASTING; CEMENT MORTAR ONLY.

A 12" OR 16" BARREL SECTION SHALL BE INSTALLED UNDER THE CONE WHENEVER POSSIBLE.

CAST IRON MANHOLE FRAME & COVER AS PER SPECIFICATIONS.

MANHOLE STEPS SHALL CONFORM WITH MNDOT STANDARD PLATE 4180H, EXCEPT THAT STEP LOCATION SHALL BE AS NOTED IN THE SPECIFICATIONS.

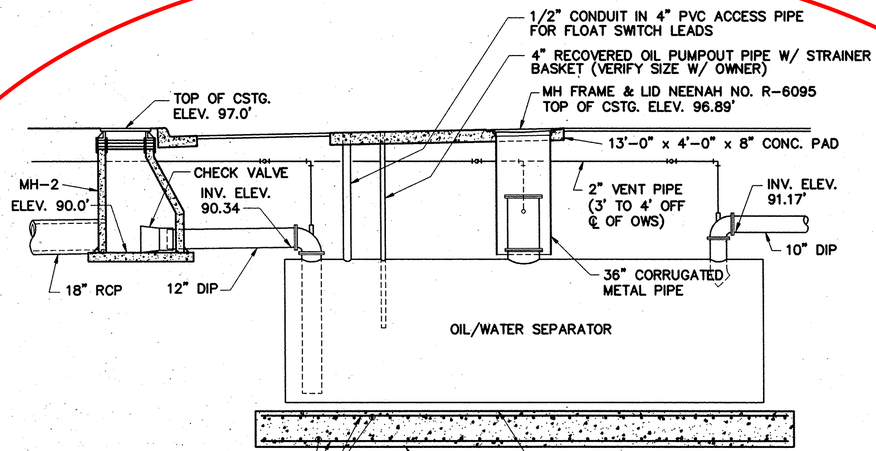
PRECAST REINFORCED CONCRETE MANHOLE SECTIONS PER ASTM C478.

FILL OPENING BETWEEN PIPE & MH WALL WITH CEMENT MORTAR. INSIDE SURFACE SHALL BE FINISHED SMOOTH.

STANDARD 4' DIAMETER STORM SEWER MANHOLE (FOR DEPTHS 9' OR GREATER)

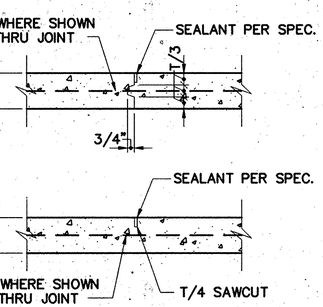
MANHOLE DETAIL (6 / C-2)

NO SCALE



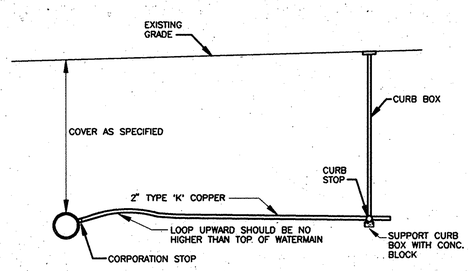
OIL/WATER SEPARATOR DETAIL (9 / C-2)

NO SCALE



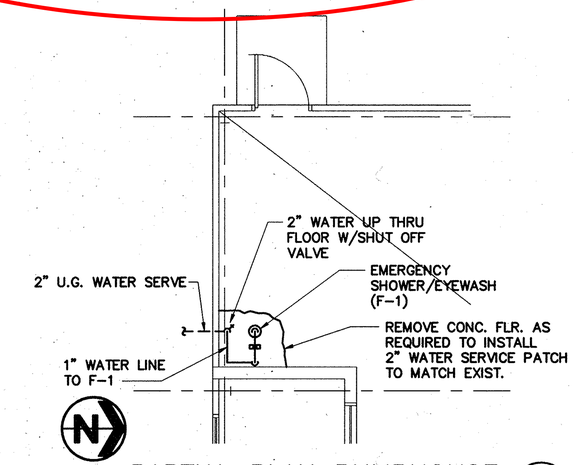
SLAB JOINT DETAILS (7 / C-2)

NO SCALE



WATER SERVICE DETAIL (8 / C-2)

NO SCALE



PARTIAL PLAN PUMPHOUSE (10 / C-2)

SCALE: 1/4"=1'-0"

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

DATE NOVEMBER 5, 1993 REG. NO. 17843

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

DATE NOVEMBER 5, 1993 REG. NO. 16523

NO.	DATE	BY	DESCRIPTION OF REVISIONS

DESIGNED WED, TAU
DRAWN WRL
CHECKED WED, TAU

TKDA
ENGINEERS ARCHITECTS PLANNERS

TOLTZ, KING, DUVALL, ANDERSON AND ASSOCIATES INCORPORATED
SAINT PAUL, MINNESOTA

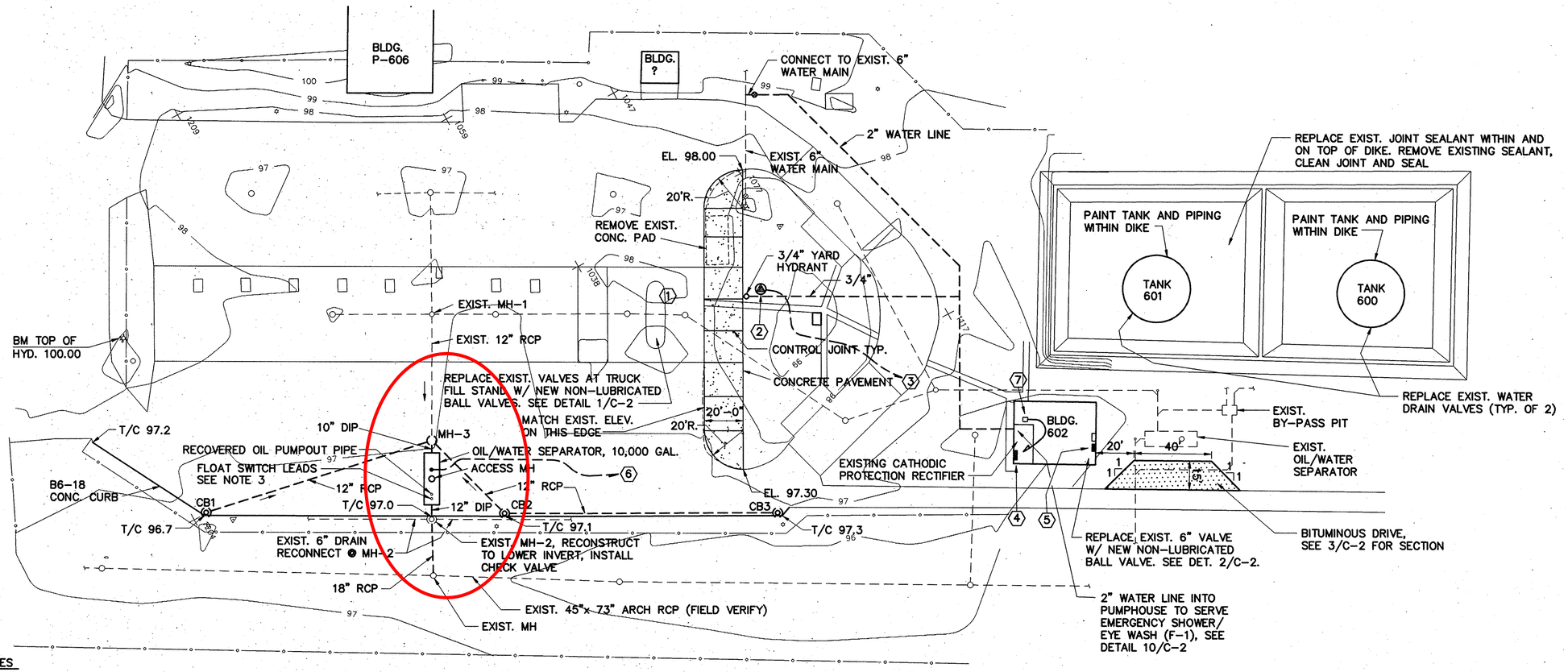
MAINTAIN/REPAIR/ALTER POL, AREA D
PROJ. NO. QJKL 94-0014A/B/C
934TH AIRLIFT GROUP (AFRES)
MINNEAPOLIS-ST. PAUL IAP, MINNESOTA

PLANS, SECTIONS, AND DETAILS

COMM. NO. 10478

DRAWING NO. C-2

ACAD FILE NAME: polloc-2
DATE FILED: 11/9/93



SITE PLAN
SCALE: 1" = 30'-0"

ELECTRICAL NOTES

1. THERE IS AN EXISTING PUMP START-STOP STATION AT SOUTH SIDE OF THE FILL STAND; PROVIDE AND CONNECT A NEW IDENTICAL STATION BACK TO BACK WITH THE EXISTING ON THE NORTH SIDE OF THE FILL STAND.
2. 7 1/2 HP 240V 1ø 2W + GROUND CLASS I DIVISION 1 RECEPTACLE; MOUNT @ 30" AFG ON 2" RMC POST WITH SPRING CITY LPB-200 BASE & 12" DIA. X 30" DEEP CONCRETE FOUNDATION; APPLETON XSR1023-150.
3. 2"C., 2#10 + #10 GROUND TO EXISTING PANEL A IN BUILDING 602.
4. EXISTING WESTINGHOUSE PANEL A; PROVIDE
   30/2 CB FOR RECEPACLE (2)
   20/1 CB FOR EYEWASH HEAT TRACE
5. PROVIDE CLASS I DIVISION 1 HI LEVEL ALARM LIGHT FOR NEW OIL/WATER SEPARATOR ADJACENT TO EXISTING UNIT; CONNECT TO EXISTING UNIT'S POWER SOURCE.
6. CONNECT TO HI LEVEL FLOAT SWITCH; RUN 2"C., 2#12 + #12 GROUND TO ALARM LIGHT UNIT IN BUILDING 602 AND CONNECT.
7. CONNECT 120V EYEWASH HEAT TRACE CIRCUIT; RUN 3/4"C., 2#12 TO EXISTING PANEL A.

NOTES:

1) PATCH ALL DISTURBED SURFACES TO MATCH ADJOINING CONDITIONS DISTURBED.
2) TURF AREAS ARE TO BE SODDED.
3) CONNECT FLOAT SWITCH LEADS TO OWS CONTROL PANEL (ALARM ONLY) MOUNT IN BLDG. P-606.
4) SEE 3/C-2 FOR BITUMINOUS SECTION.
5) T/C DENOTES TOP OF CURB.
6) CONNECT NEW OIL/WATER SEPARATOR TO EXISTING CATHODIC PROTECTION SYSTEM. REUSE OR REPLACE EXIST. RECTIFIER AS REQUIRED.

CATCH BASIN & MANHOLE SCHEDULE

NUMBER	PIPE	INVERT ELEV.	TOP CSTG.	REMARKS
CB1	12" OUT	92.51	96.2	
CB2	12" IN 12" OUT	91.76 91.72	96.6	
CB3	12" OUT	92.74	96.8	
MH-2 (EXISTING)	12" IN 18" OUT 6" IN (S) 6" IN (N)	90.25 90.20 92.46 92.46	97.0	ADJUST TO NEW TOP OF CSTG. (FIELD VERIFY - NO CHANGE FROM EXIST.) (FIELD VERIFY - NO CHANGE FROM EXIST.)
MH-3	12" IN 12" IN (S) 12" IN (N) 10" OUT	91.24 91.24 91.24 91.22	97.0	
JCT 45x73 PIPE	18" IN 45x73	90.05 89.76		

ALL CONTRACTORS AND SUB-CONTRACTORS SHALL VERIFY ALL DIMENSIONS BY MEASUREMENT AT THE BUILDING AND/OR SITE

NO.	DATE	BY	DESCRIPTION OF REVISIONS

DESIGNED WED, TAU, JEB
DRAWN WRL
CHECKED WED, TAU, JEB

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA
DATE NOVEMBER 5, 1993 REG. NO. 8943

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA
DATE NOVEMBER 5, 1993 REG. NO. 17843

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA
DATE NOVEMBER 5, 1993 REG. NO. 16523

TKDA
ENGINEERS ARCHITECTS PLANNERS
TOLTZ, KING, DUVALL, ANDERSON AND ASSOCIATES INCORPORATED
SAINT PAUL, MINNESOTA

MAINTAIN/REPAIR/ALTER POL, AREA D
PROJ. NO. QJKL 94-0014A/B/C
934TH AIRLIFT GROUP (AFRES)
MINNEAPOLIS-ST. PAUL IAP, MINNESOTA

SITE PLAN

COMM. NO. 10478
DRAWING NO. C-1

ACAD FILE NAME: POLFAC-1
DATE FILED: 11/9/93