

EQUIPMENT SCHEDULE
WASTE MINERAL SPIRITS

MARK	DESCRIPTION
1	
2	2" THREADED BALL VALVE
3	2" THREADED BALL VALVE
4	2" THREADED GATE VALVE
5	2" THREADED GATE VALVE
6	2" THREADED GATE VALVE
7	1 1/2" THREADED BALL VALVE
8	1 1/4" THREADED BALL VALVE
9	WASTE M.S. RECIRCULATION PUMP
10	1 1/2" THREADED BALL VALVE
11	1 1/4" THREADED BALL VALVE
12	WASTE M.S. RECIRCULATION PUMP
13	WASTE MINERAL SPIRITS PUMP
14	2" THREADED CHECK VALVE
15	3" THREADED INTERNAL EMERGENCY VALVE
16	3" FLANGED CONNECTION
17	3" FLANGED GATE VALVE
18	3" FLANGED CONNECTION
19	3" THREADED CHECK VALVE
20	3" THREADED GATE VALVE
21	1" THREADED BALL VALVE
22	1" THREADED BALL VALVE
23	2" CAM LOCK
24	2" CAM LOCK
25	
26	STRAINER ASSY.
27	3" CAM LOCK

GENERAL NOTES

- 1.) ACTUAL PIPING CONFIGURATION MAY VARY.
- 2.) NON-PERMITTED TANKS AND EQUIPMENT MAY CHANGE.

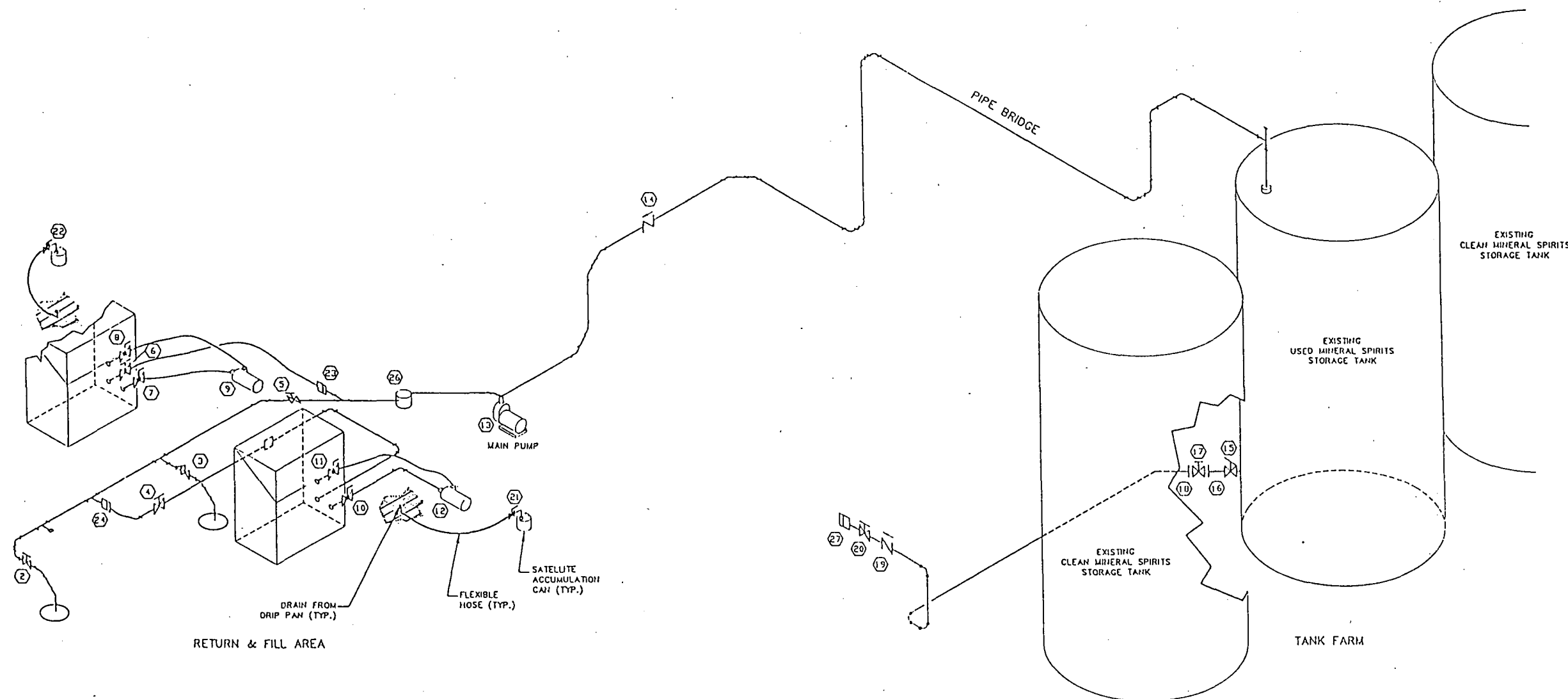


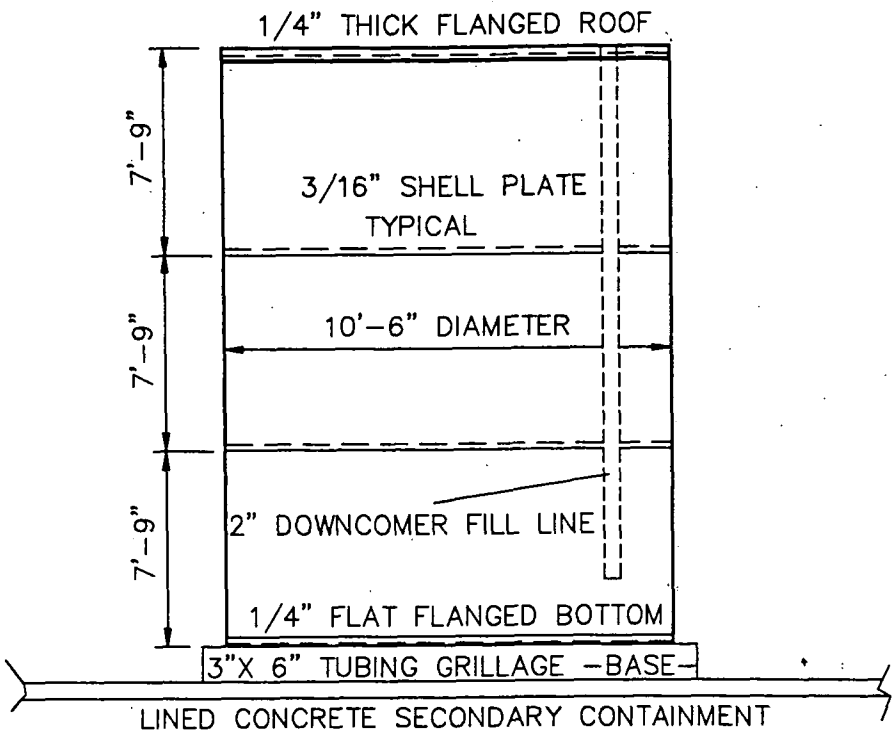
Figure 11.0-1

06	REMOVED WASTE MINERAL SPIRITS TANK & SCHEDULE REMOVED DUMPSTER & VALVES 1 & 25	MBH	KJA	DP	032195	TITLE	ENVIRONMENTAL PIPING SCHEMATIC FOR WASTE M.S. - EXISTING			
05	ADDED TAGS 23, 24, 25, 26 & 27	MBH	KJA	-	120192					
04	ADDED TAGS 21 & 22	MBH	KJA	-	111992					
03	MISC. REVISIONS	JBC	TYJ	-	042192					
02	ADDED VACUUM VENT (TAG 23)	MBH	-	-	031192					
01	REVISED GLYCOL PIPING & VALVES	MBH	-	-	012292					
NO.	DESCRIPTION	BY	CHK	APPR	DATE	SCALE	BY	CHKD	APPROVED	OPERATIONS
						1/16"	MBH	-	-	DATE
						SERVICE CENTER LOCATION			SC-DWG NUMBER	REV. NO.
						TAMPA, FL			316301-2003B	06

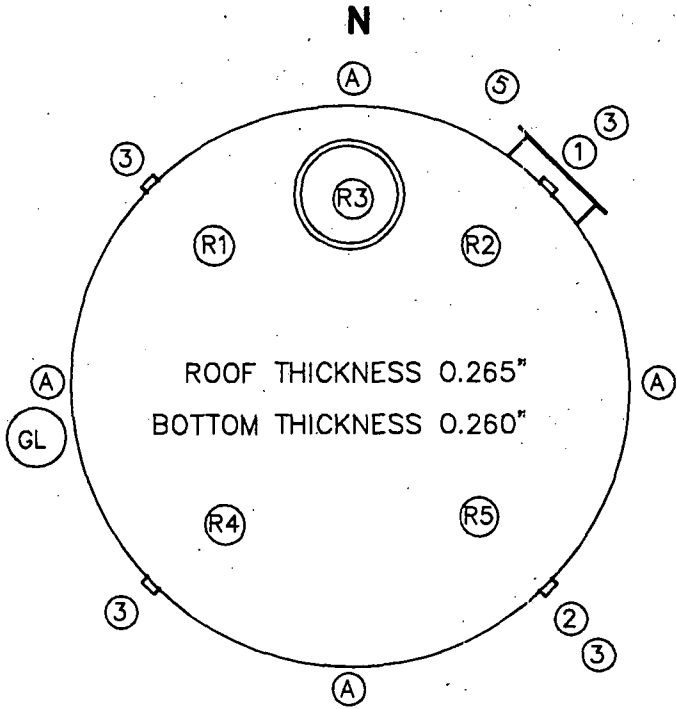
Safety-Kleen Corp.
1000 NORTH RAJADALL ROAD ELOH, ALABAMA 36013
PHONE (706)697-8460

DESIGN: UL 142 STD. TEMP. AND PRESSURE
BUILT: APPROXIMATELY 1980 BY BUFFALO TANK CO.
INSPECTED: AUGUST 5, 1997
10'-6" DIAMETER X 23'-3" HIGH
15,000 GALLON CAPACITY
BUTT WELDED VERTICAL SEAMS
LAP WELDED HORIZONTAL SEAMS

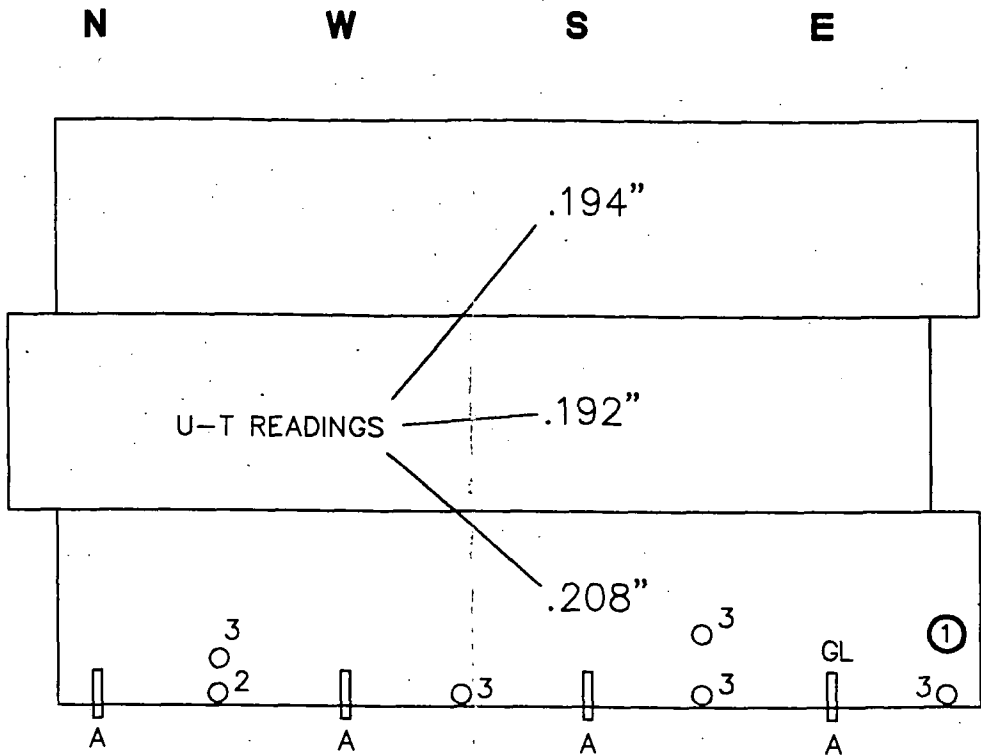
DIRTY MINERAL SPIRITS STORAGE TANK - ORANGE PARK, FLORIDA



ELEVATION



PLAN



SHELL ROLLOUT

- NOTES:
1. SHELL RUSTING BEHIND UL 142 NAMEPLATE LOCATED ABOVE MANWAY.
 2. SHELL COATING IN GOOD CONDITION - COATING BEGINNING TO FAIL ON UPPER SHELL COURSE.
 3. U-T READINGS DO NOT INDICATE ANY INTERIOR CORROSION.
 4. NO INTERNAL CORROSION FOUND DURING INTERIOR INSPECTION.
 5. NO VISIBLE SIGNS OF TANK LEAKAGE.
 6. TANK IS IN GOOD CONDITION BASED ON THIS INSPECTION

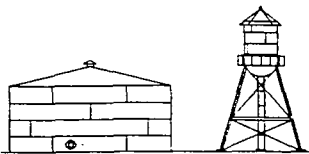
INSPECTOR: DANIEL E. COLEMAN EI - API, CERTIFICATION #0867

NOZZLES, FITTINGS AND ACCESSORIES

SYMBOL	DESCRIPTION	INSPECTION NOTES
1	24" SHELL MANWAY	GOOD CONDITION
2	4" COUPLING - INLET/OUTLET	GOOD CONDITION
3	4" COUPLING - SPARE NOZZLES	GOOD CONDITION
GL	GROUNDING LUG	GOOD CONDITION
A	TANK ANCHORS	HAVE COATING FAILURE AT BOLTS
R1	4" COUPLING/2" FILL PIPING - ROOF	GOOD CONDITION
R2	4" COUPLING/2" LEVEL GAUGE PIPING	GOOD CONDITION
R3	24" ROOF MANWAY	LONG BOLT CONFIGURATION - NFPA 30 - GOOD
R4	4" COUPLING W/2" P/V VENT	MORRISON FIG. 548 2oz. 20,200 CFH @ 0.5psi
R5	4" COUPLING W/2" ALARM	GOOD CONDITION

AST INSPECTION
SERVICES, INC.

PO BOX 902
MADISON, FLORIDA 32341
PHONE: (912) 244-9826



FOR:

SAFETY-KLEEN CORP.

ORANGE PARK BRANCH

ORANGE PARK, FLORIDA

PROJECT:

OUT OF SERVICE INSPECTION
DIRTY MINERAL SPIRITS
STORAGE TANK

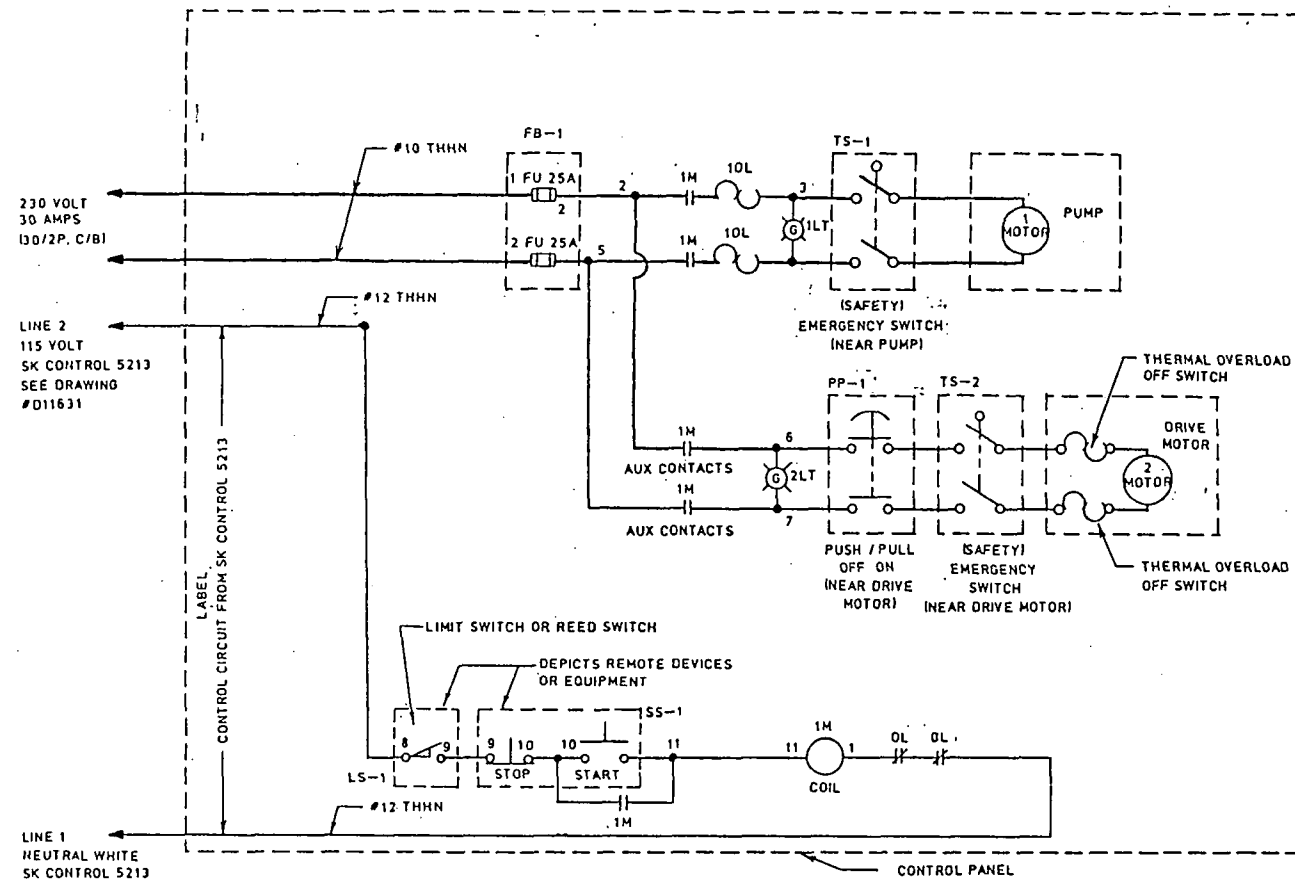
DRAWN BY:

D.W.W.

CHECKED BY:

D.E.C.

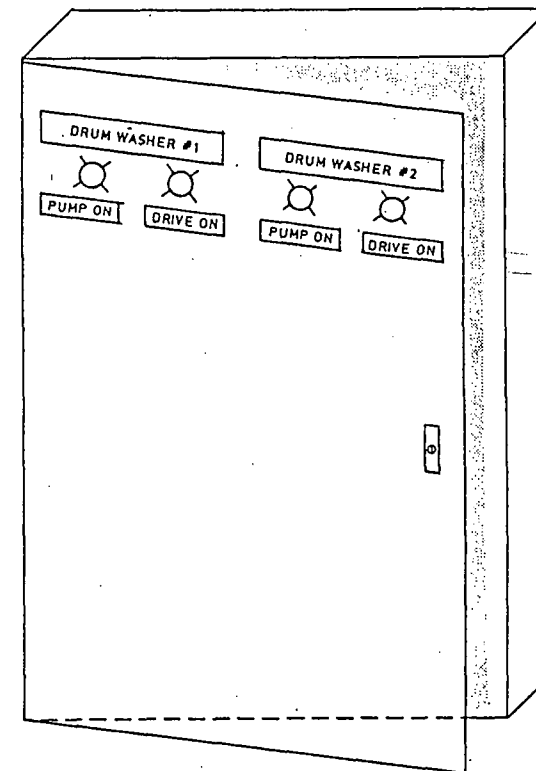
UNIT NUMBER:



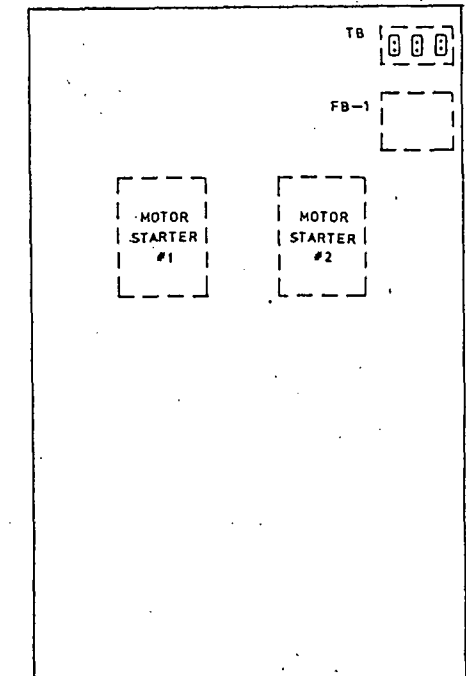
"PANEL WIRING" & ELEMENTARY DIAGRAM

N.T.S. (ONE BARREL WASHER)

POWER WIRING
CONTROL WIRING



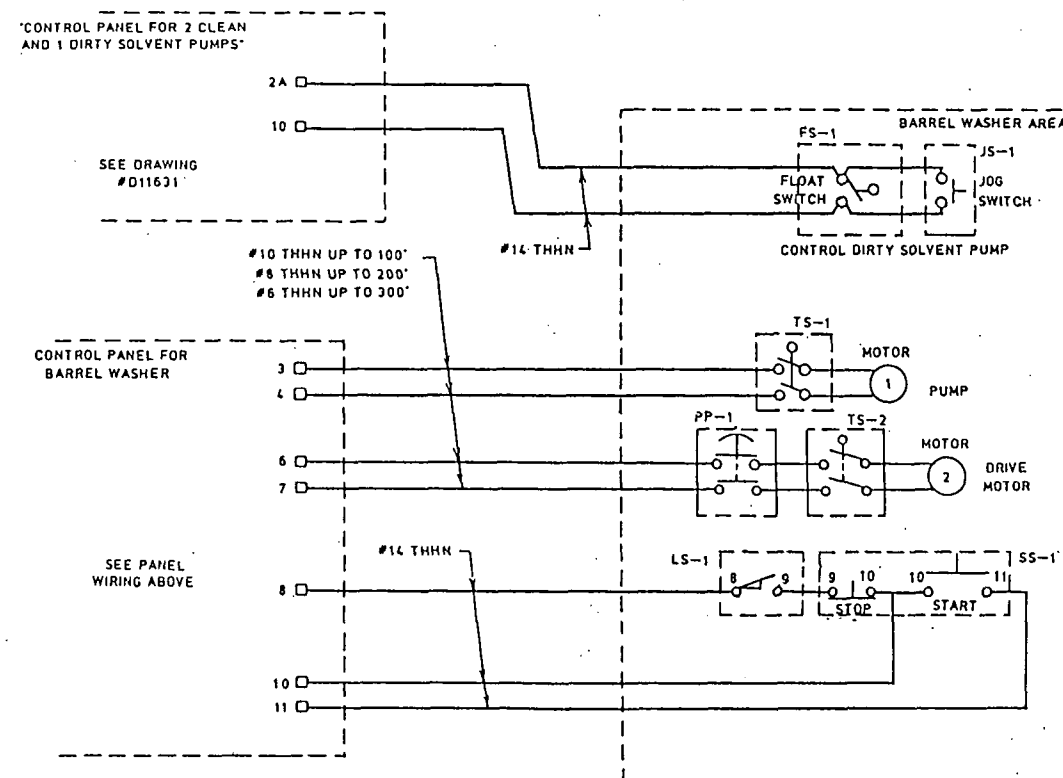
PANEL FRONT



PANEL INTERIOR

CONTROL PANEL MAKE-UP

N.T.S.



WIRING DIAGRAM

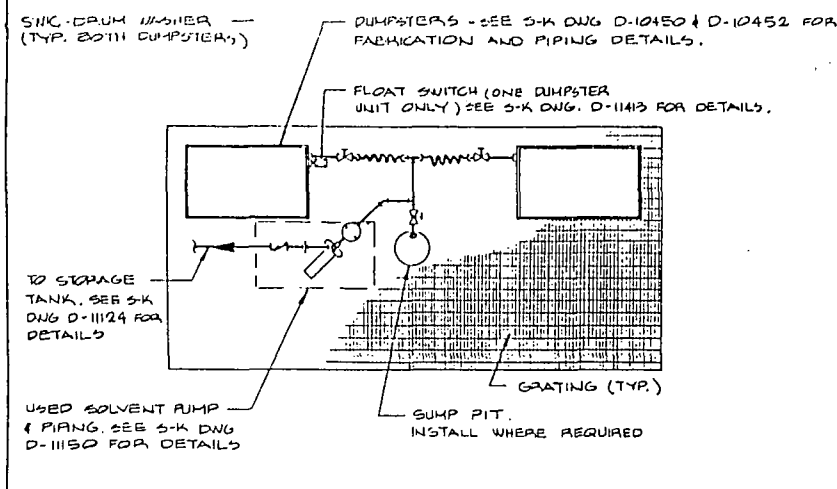
N.T.S.

TAG	QUANTITY	DESCRIPTION
FB-1	1	FUSE BLOCK WITH FRN FUSES LITTLE FUSE LH 250 30' 2P EUSES.ELNR.25.
STARTER	2	NEMA SIZE #1 MAGNETIC STARTER, SQ D. 8536-SB0.1S
1LT	2	PUMP PILOT LIGHT - GREEN - 240 VOLT, SQ D 9001 K27R9.W/TRANSFORMER.
2LT	2	DRIVE MOTOR PILOT LIGHT-GREEN - 240 VOLT, SQ D 9001 K27R9.W/TRANSFORMER.
PANEL	1	UNIVERSAL BOX WITH PIANO HINGE, SINGLE POINT L HANDLE, LOCK, 8" DEEP, 36" HIGH, 24" WIDE

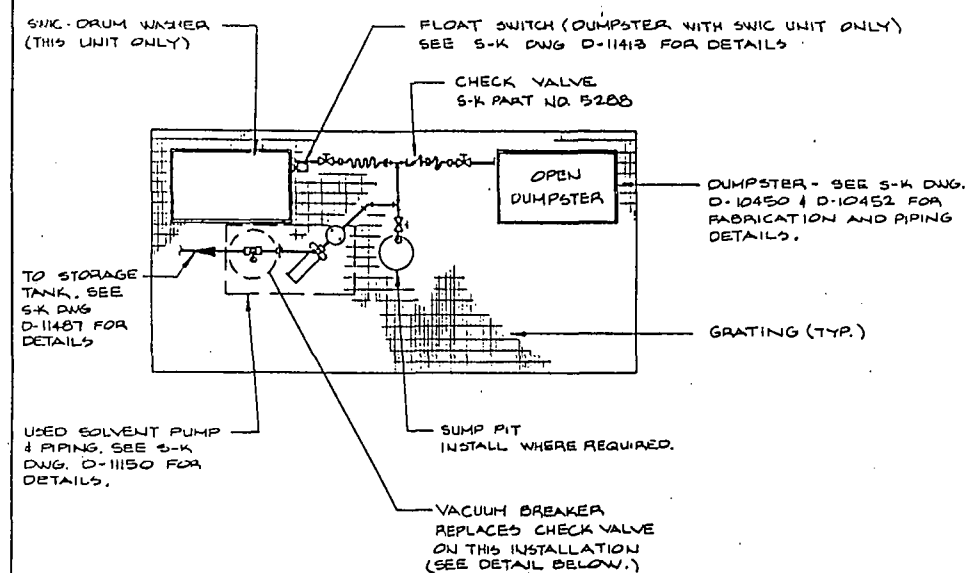
REMOTE ITEMS

SS-1	1	START-STOP STATION 9001 BR205
TS-1,2	2	2-POLE, TOGGLE SWITCH, 20A RATED SQ D. 2510 KR4
JS-1	1	JOG SWITCH, 1-POLE, 20A RATED
FS-1	1	FLOAT SWITCH, 1-POLE, 10A RATED
LS-1	1	LIMIT SWITCH OR REED SWITCH MAKES WHEN BARREL IS IN PLACE 9007 CL61J
PP-1	1	2 POLE TOGGLE SWITCH, START STOP STATION 2HP CONTACT RATING

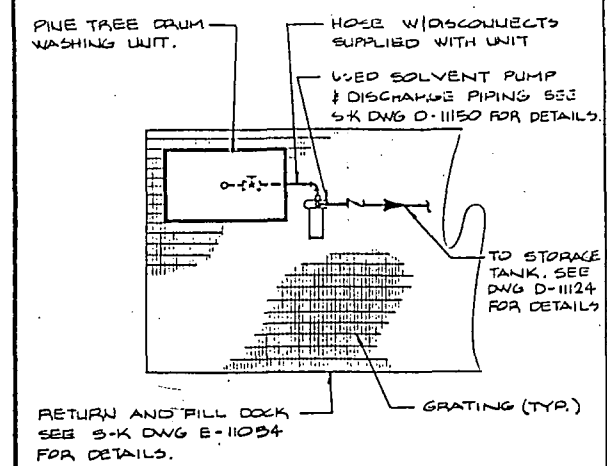
NO.		DESCRIPTION		BY	CHKD	APPR	DATE
REVISIONS							
TITLE							
ELECTRICAL CONTROL PANEL FOR DRUM WASHER '90'							
SAFETY-KLEEN CORP. 777 80 TWISSER ROAD, ELON, ALABAMA 36020 PHONE 312/917-8440							
PROJ. ENG. APPR.	OPERATIONS APPR.	SCALE	NONE	DRAWN	DK	DATE	
BRANCH		DRAWING NO.		REV.			
		D-14289					



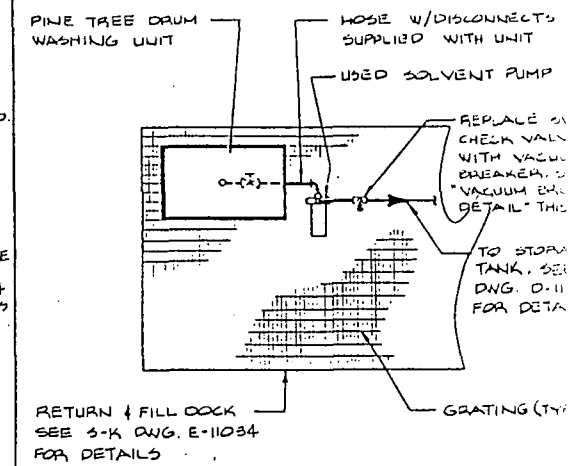
DOUBLE SWIC INSTALLATION
W/ ABOVE GROUND STORAGE



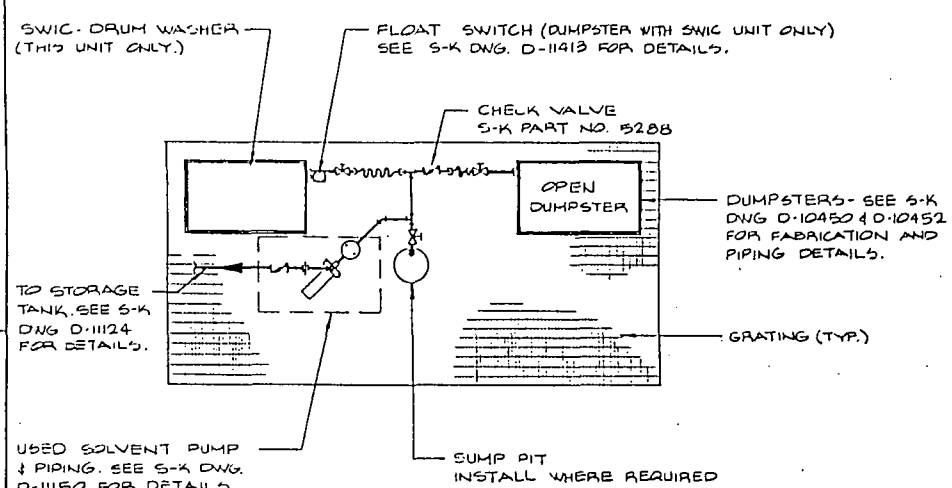
SINGLE SWIC INSTALLATION
W/ UNDERGROUND STORAGE



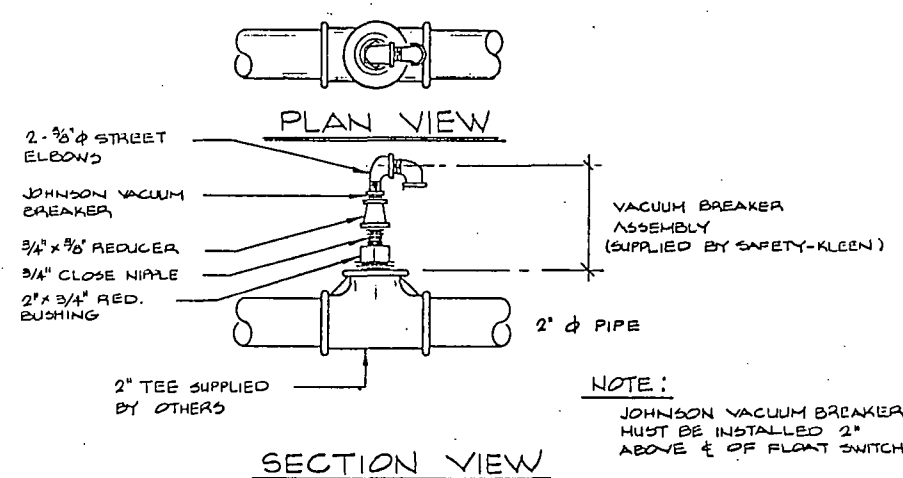
PINE TREE INSTALLATION
W/ ABOVE GROUND STORAGE



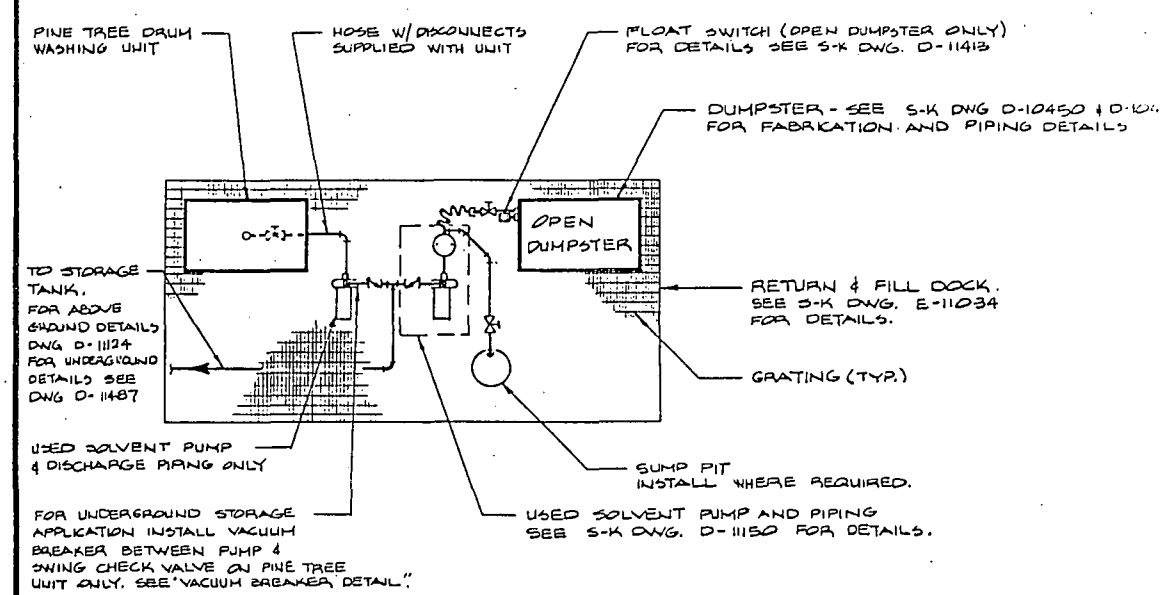
PINE TREE INSTALLATION
W/ UNDERGROUND STORAGE



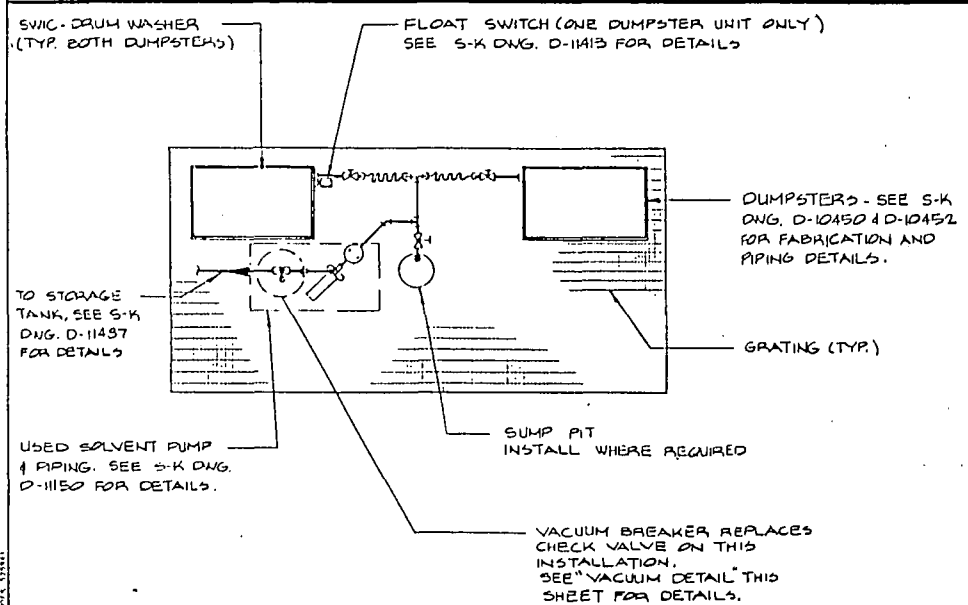
SINGLE SWIC INSTALLATION
W/ ABOVE GROUND STORAGE



VACUUM BREAKER DETAIL



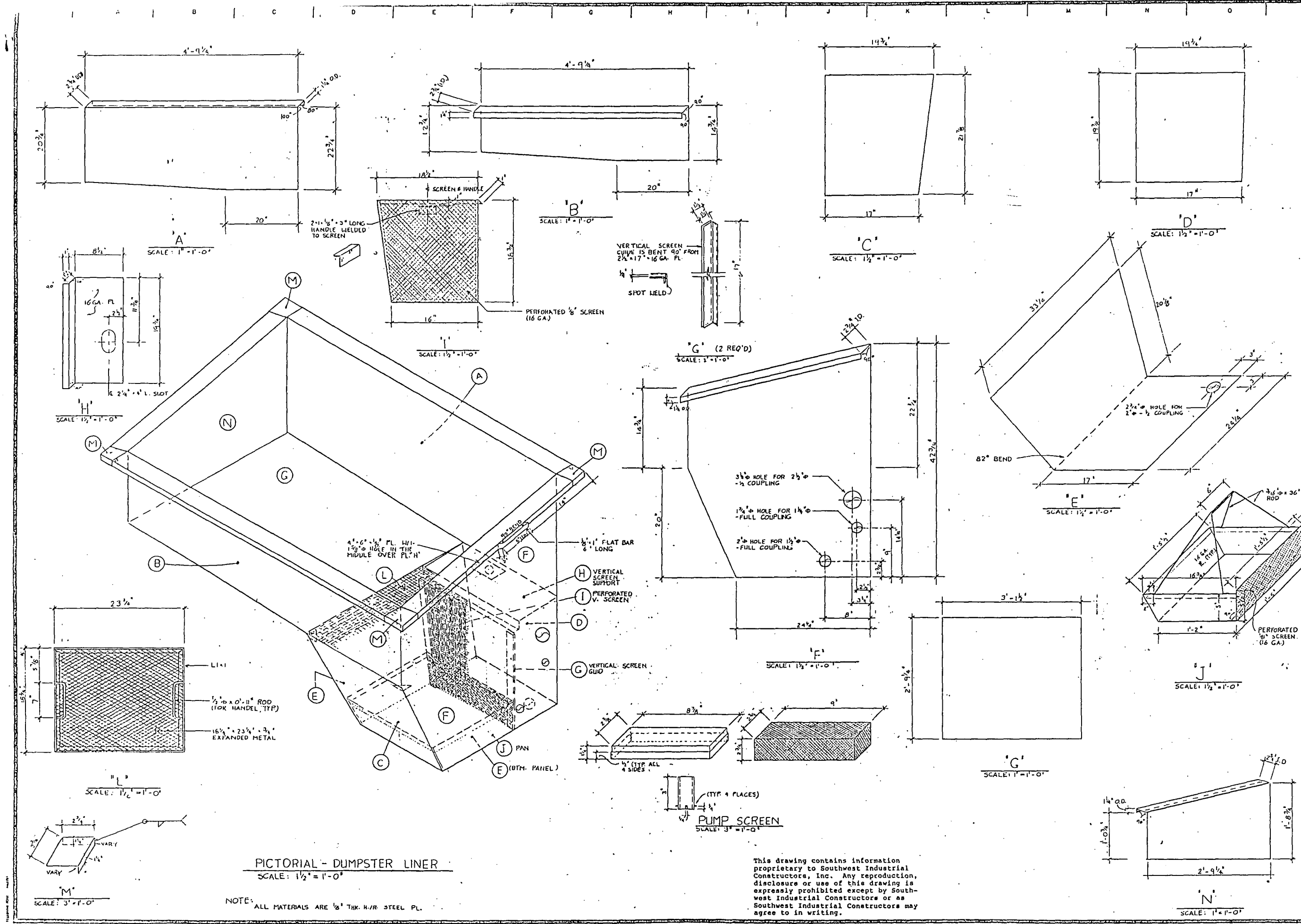
PINE TREE AND OPEN DUMPSTER INSTALLATION
FOR ABOVE GROUND & UNDERGROUND STORAGE



DOUBLE SWIC INSTALLATION
W/ UNDERGROUND STORAGE

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TITLE									
TYPICAL DRUM WASHER SCHEMATICS									
SAFETY-KLEEN CORP.									
777 BIG TIMBER ROAD - ELGIN, ILLINOIS 60120 PHONE 708/487-8400									
SCALE	DRAWN	CHECKED	ENGINEERING APPR	OPERATION APPR	DATE				
NONE	AD				12-92				
FOR SERVICE CENTER						DRAWING NO.			
BRANCH:						D-14298			
REVISIONS									
NO	DESCRIPTION	BY	CHK	APPR	DATE				



PICTORIAL - DUMPSTER LINER
SCALE: 1 1/2\"/>

NOTE: ALL MATERIALS ARE 1/8\"/>

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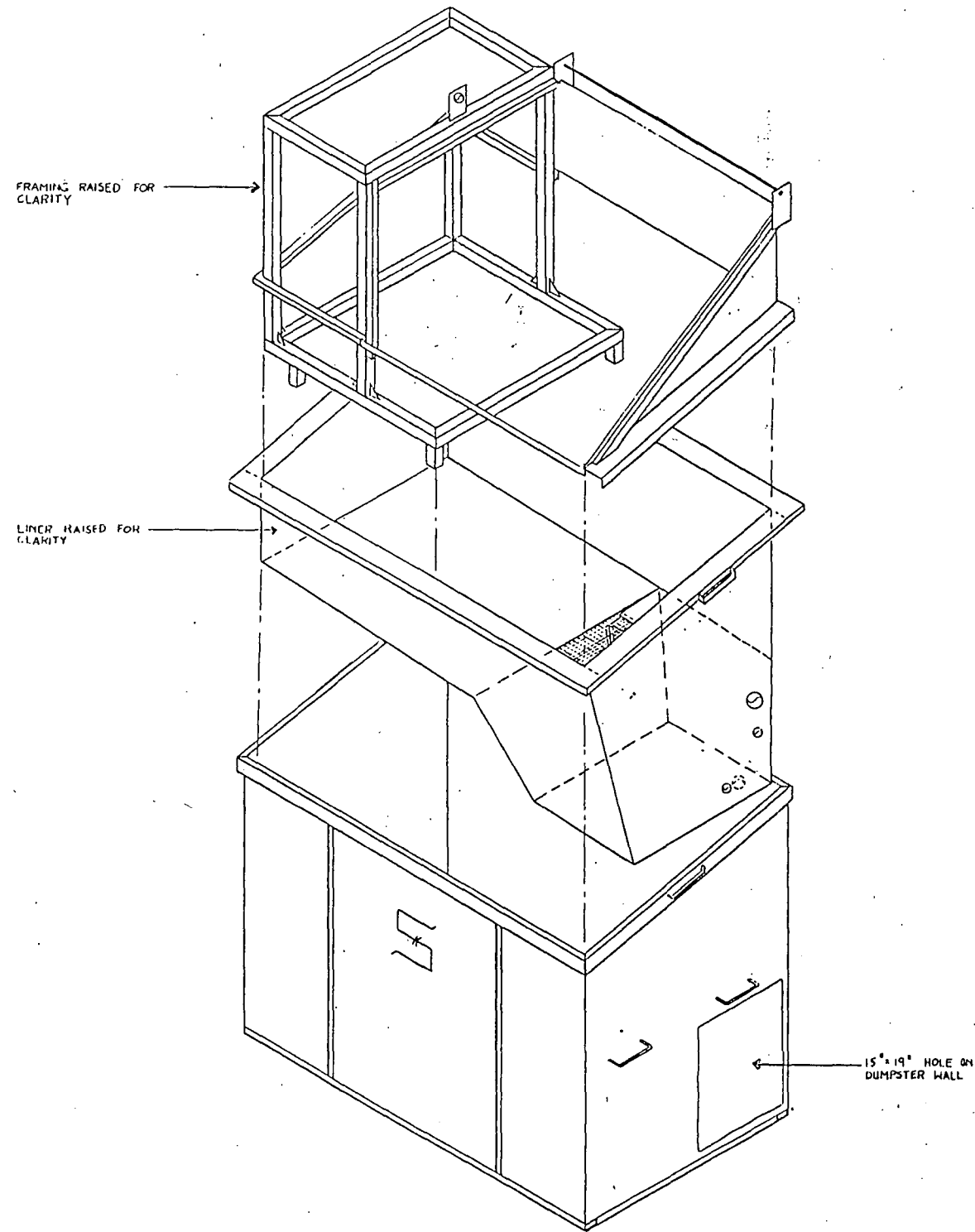
SOUTHWEST INDUSTRIAL
CONSTRUCTORS, INC.

DATE: 1/19/90
JOB NO:
OWN: ALI
CWN:

SAFETY - KLEEN
DRUM WASHER

SHEET NO.
12

A B C D E F G H I J K L M N O



SOUTHWEST INDUSTRIAL
CONSTRUCTORS, INC.

DATE: 1/19/70
JOB NO:
DWN: ALI
CHK:

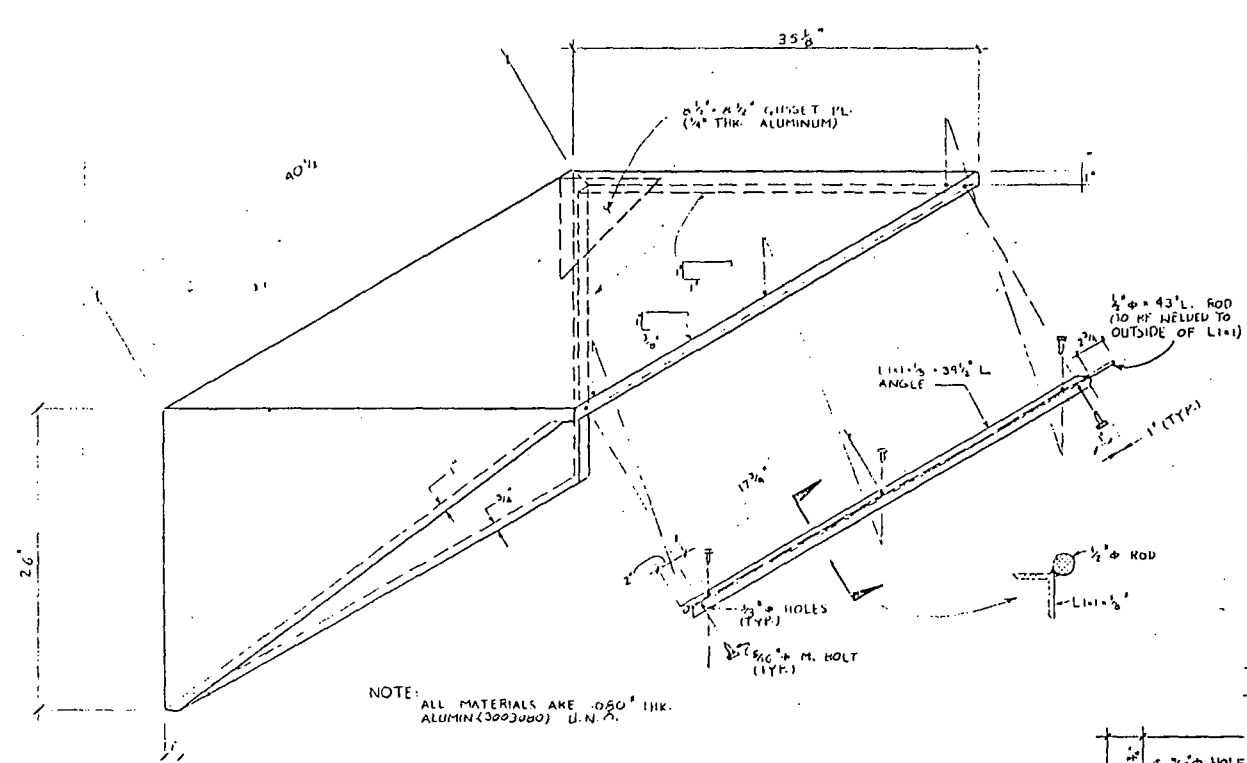
SAFETY - KLEEN
DRUM WASHER

SHEET NO.
1

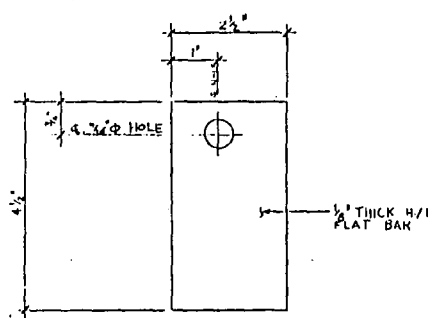
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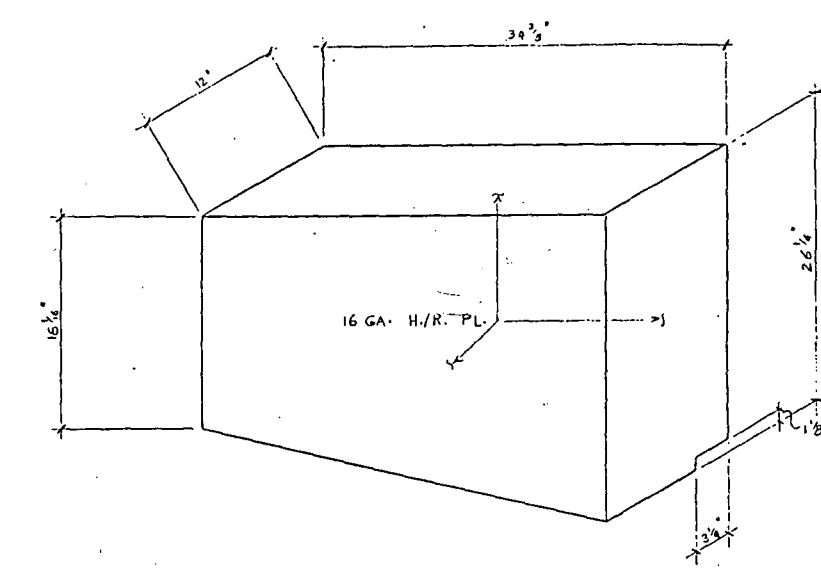
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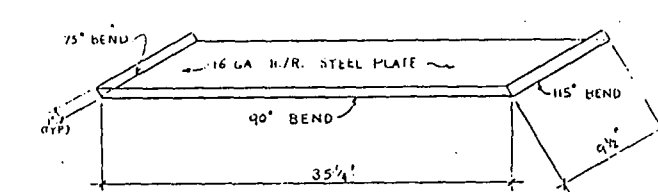
DRUM WASHER LID
SCALE: 1 1/2" = 1'-0"



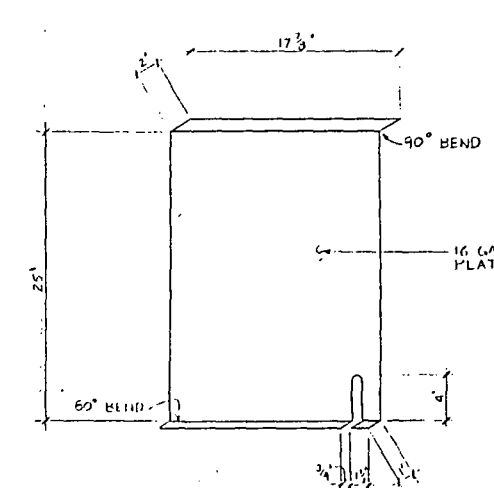
HINGE BRACKET
SCALE: 6" = 1'-0"



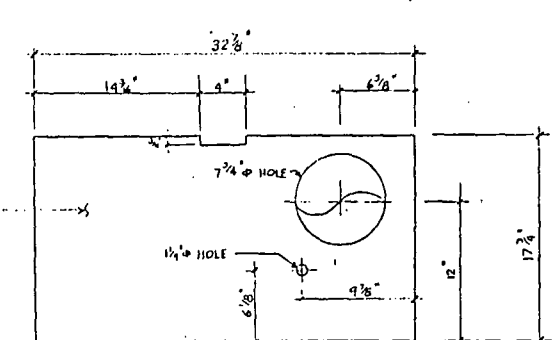
MOTOR COVER
SCALE: 1 1/2" = 1'-0"



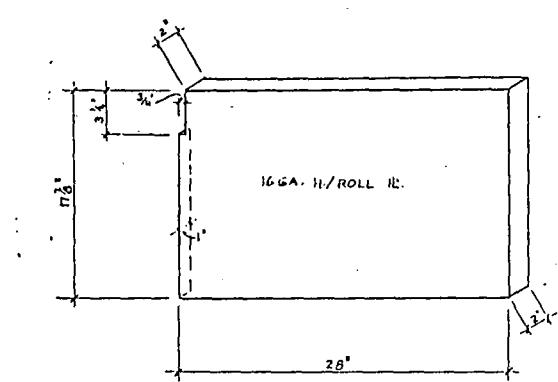
BOTTOM PAN FOR MOTOR COVER
SCALE: 1 1/2" = 1'-0"



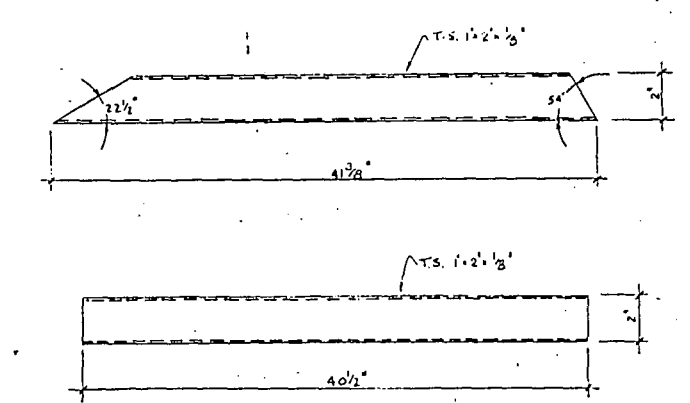
CABINET FRONT
SCALE: 1 1/2" = 1'-0"



CABINET TOP
SCALE: 1 1/2" = 1'-0"



CABINET BACK
SCALE: 1 1/2" = 1'-0"



HOOD STIFFENER
N.T.S.

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SOUTHWEST INDUSTRIAL
CONSTRUCTORS, INC.

DATE: 1 / 190

JOB NO:

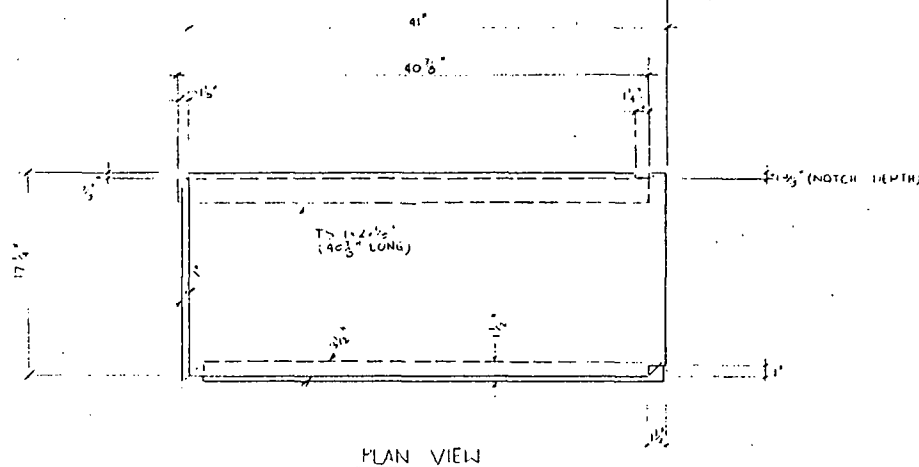
OWN: ALI

CHK:

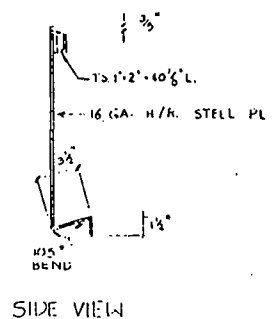
SAFETY-KLEEN
DRUM WASHER

SHEET NO.

7

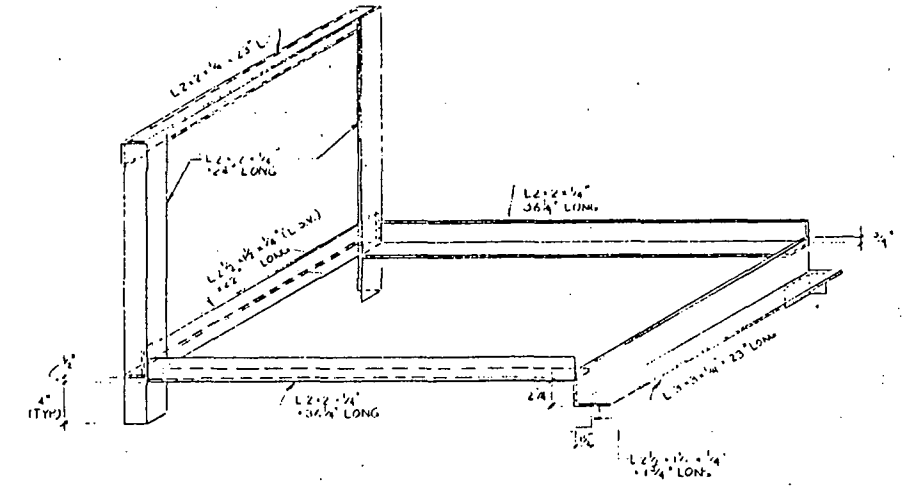


PLAN VIEW

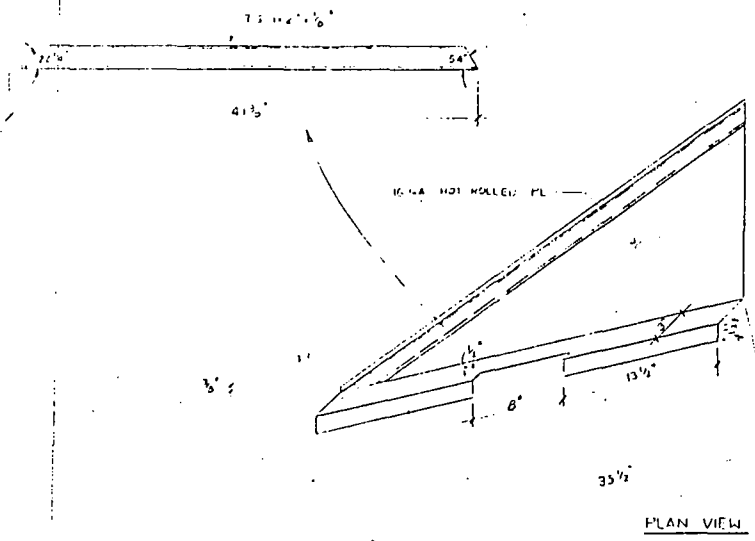


SIDE VIEW

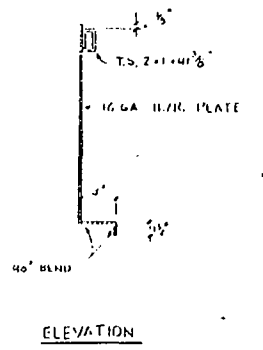
FRONT HOOD SUPPORT
SCALE: 1 1/2" = 1'-0"



TEMP SUPPORTING FRAME FOR LINER
SCALE: 1 1/2" = 1'-0"

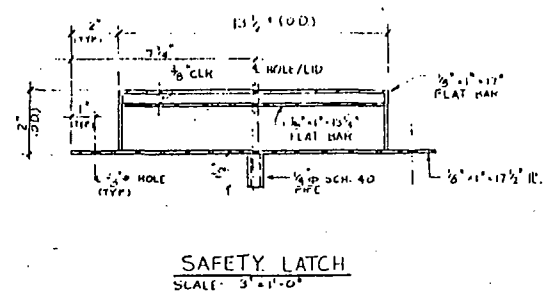


PLAN VIEW

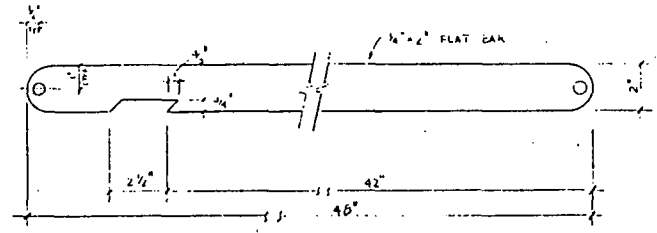


ELEVATION

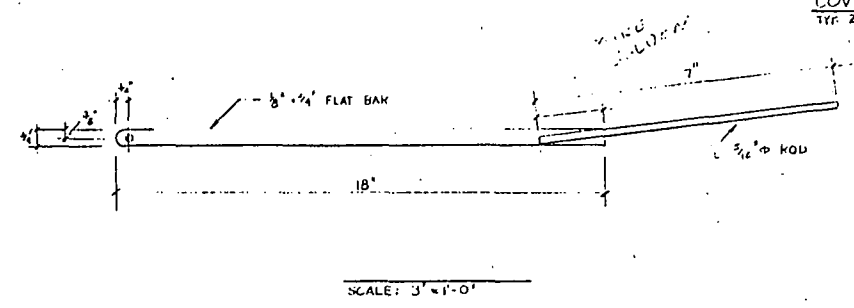
SIDE HOOD SUPPORT
SCALE: 1 1/2" = 1'-0"



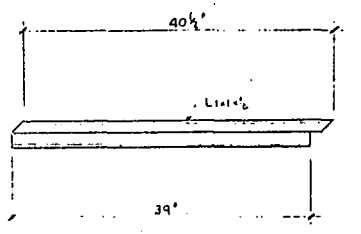
SAFETY LATCH
SCALE: 3" = 1'-0"



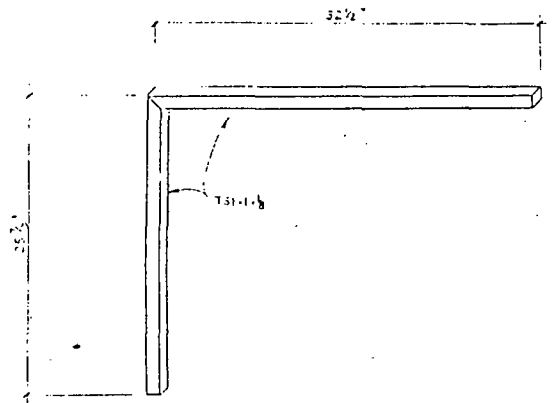
COVER BRACE STEEL
SCALE: 3" = 1'-0"



SCALE: 3" = 1'-0"



FRONT HOOD BRACE
N.I.S.



INSIDE HOOD SUPPORT
SCALE: 1" = 1'-0"

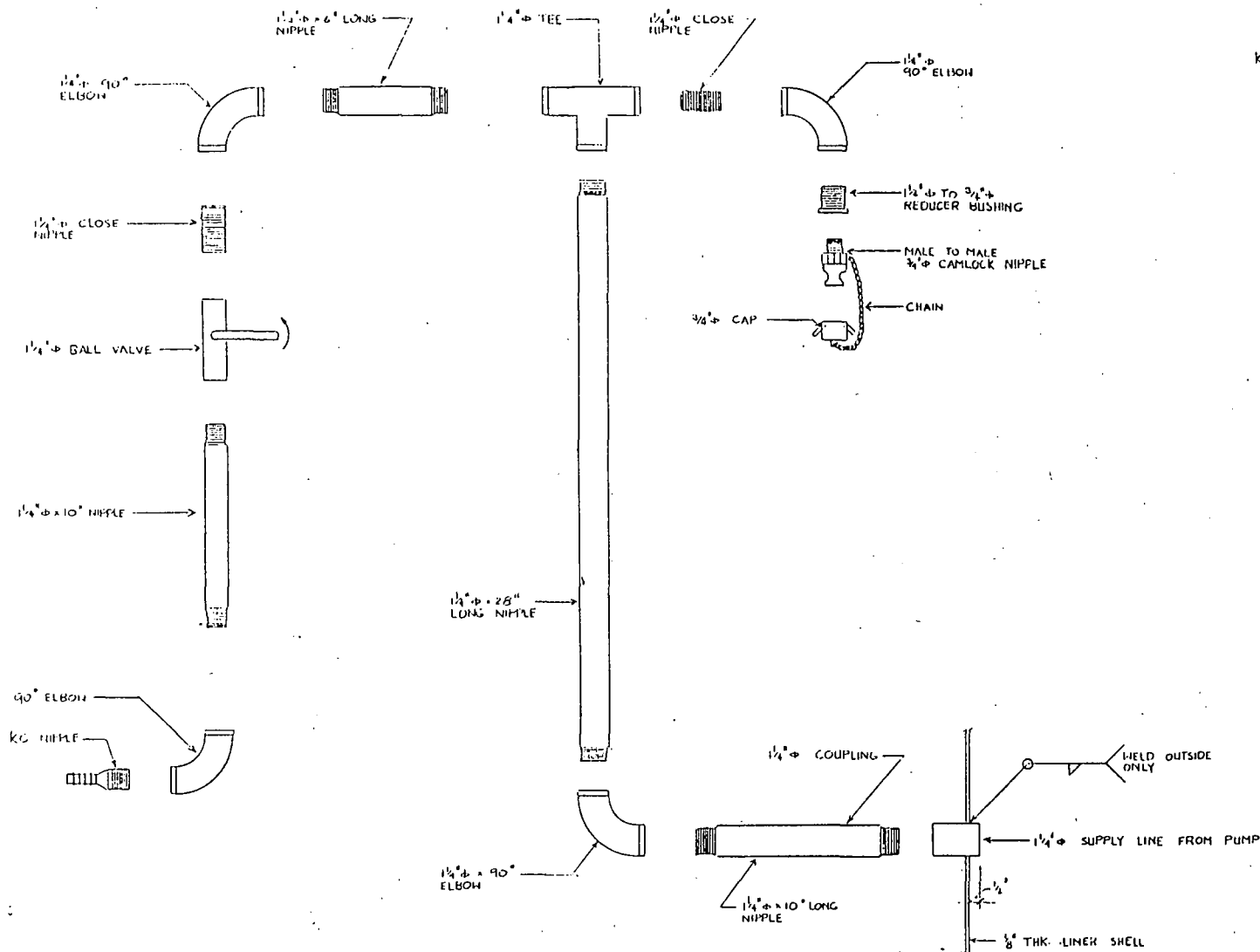
SOUTHWEST INDUSTRIAL
CONSTRUCTORS, INC.

DATE: 1/17/40
JOB NO.:
DWN: ALI
CHK:

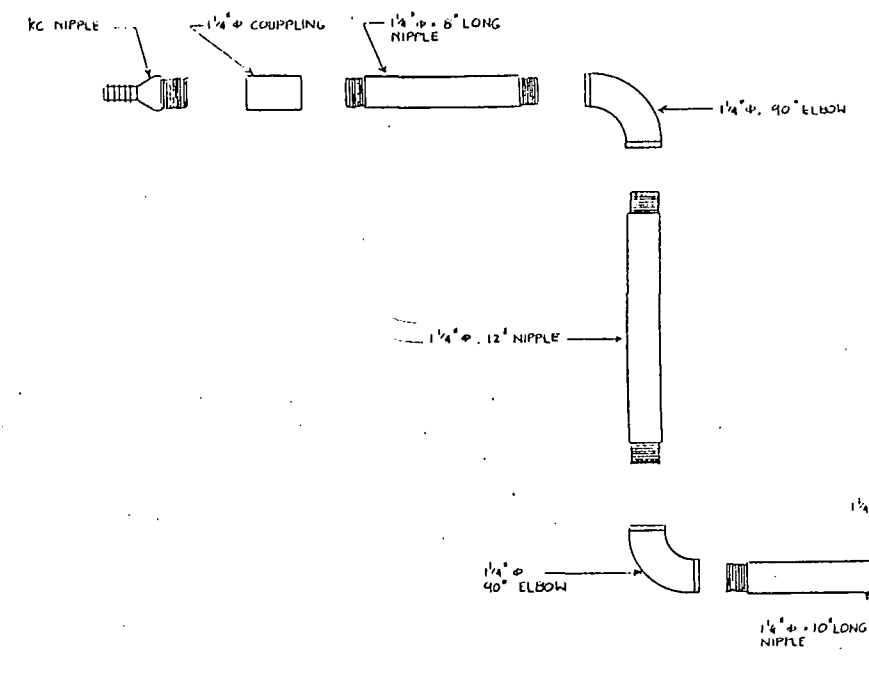
SAFETY - KLEEN
DRUM WASHER

SHEET NO.
8

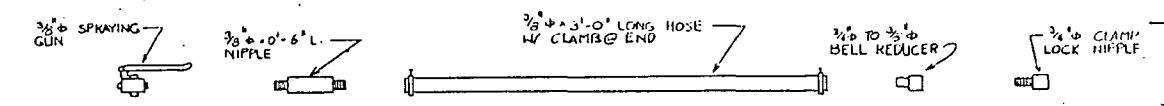
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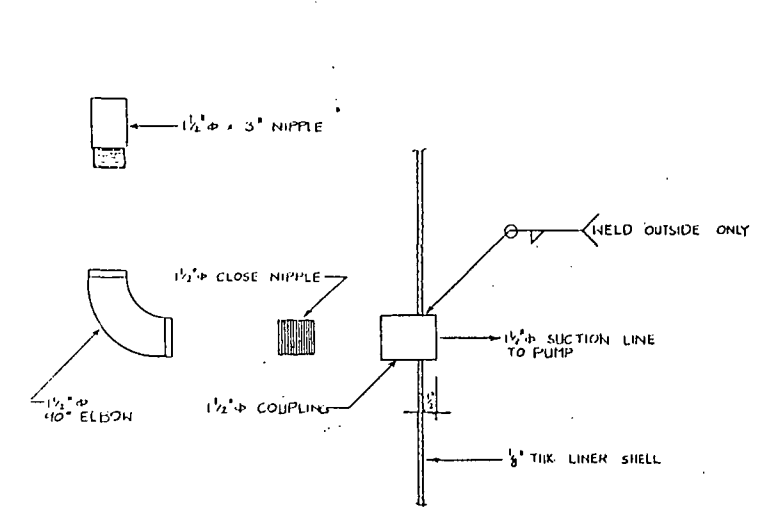
PIPING DIAGRAM FOR:
DRUM WASHER WITH
SELF SERVICE PART WASHER



PIPING DIAGRAM FOR:
DRUM WASHER WITHOUT
SELF SERVICE PART WASHER

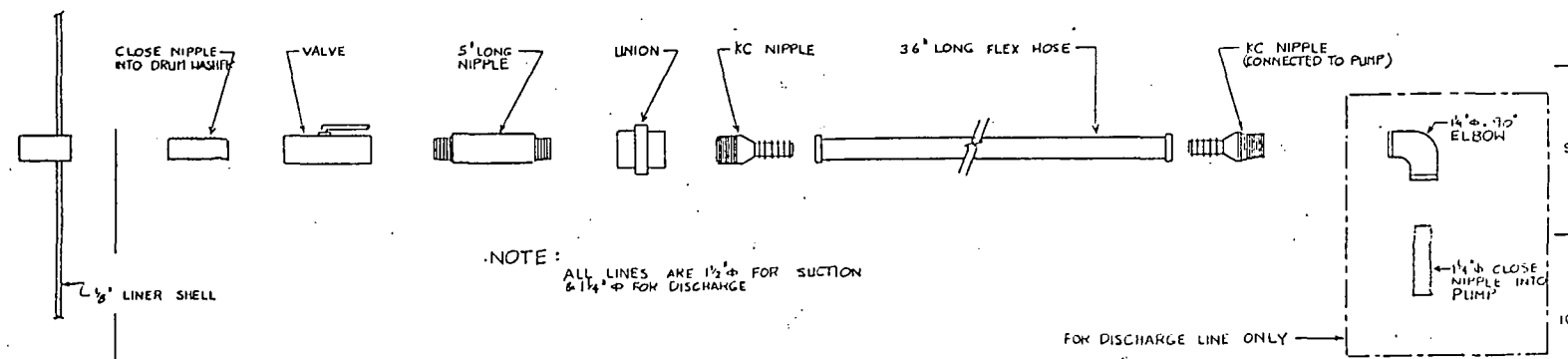


SPRY GUN FOR:
DRUM WASHER W/ S.S.P.W.



1/2\"/>

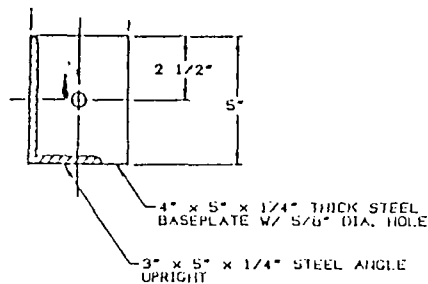
SEE APPROPRIATE DIAGRAM
THIS SHIT. FOR CONTINUATION OF
PIPING INSIDE DRUM WASHER



NOTE:
ALL LINES ARE 1/2\"/>

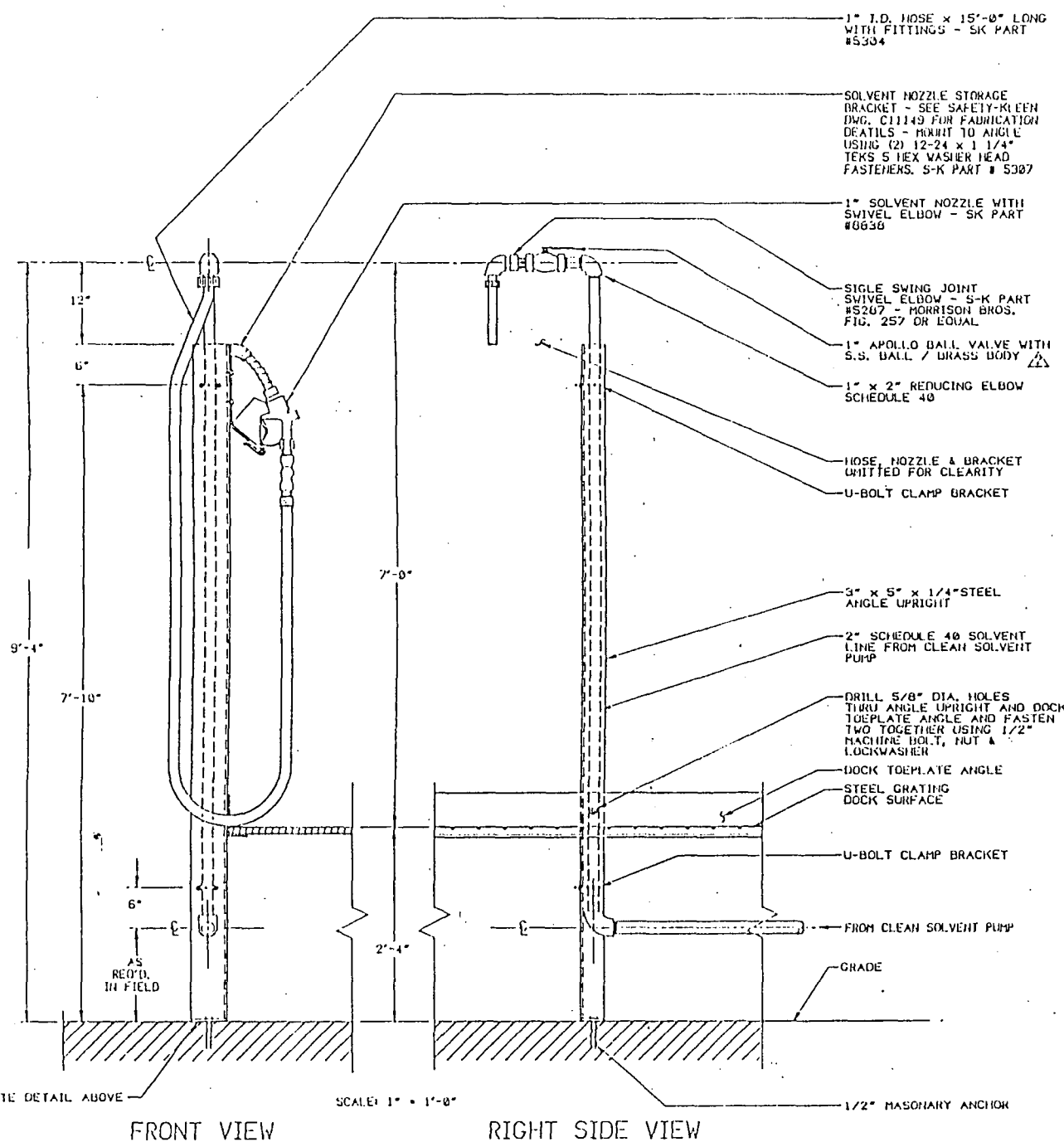
PIPING DIAGRAM OUTSIDE
DRUM WASHER
(TO & FROM MARLOW PUMP)

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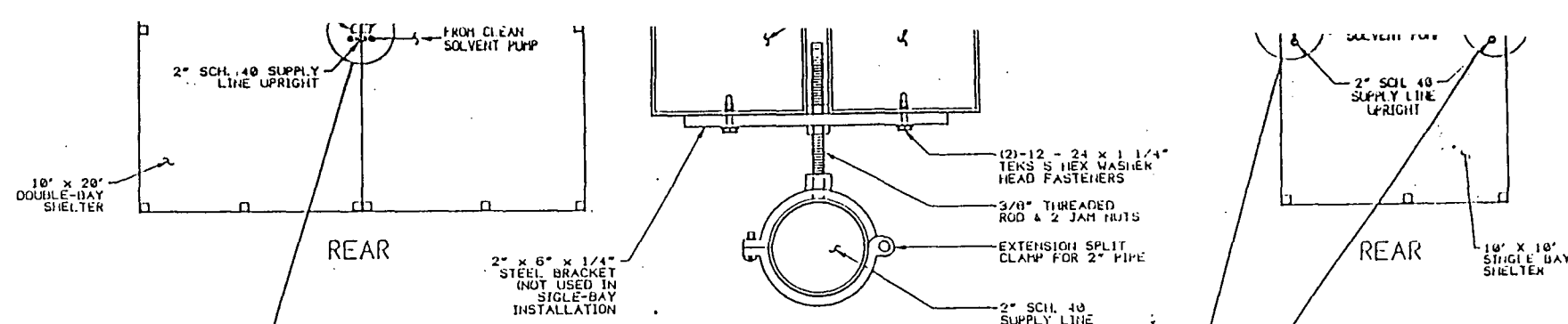


NOTE:
SURPLUS HOSE LENGTH CAN BE COILED & STORED ON ARM PROVIDED AT SIDE OF NOZZLE STORAGE BRACKET.

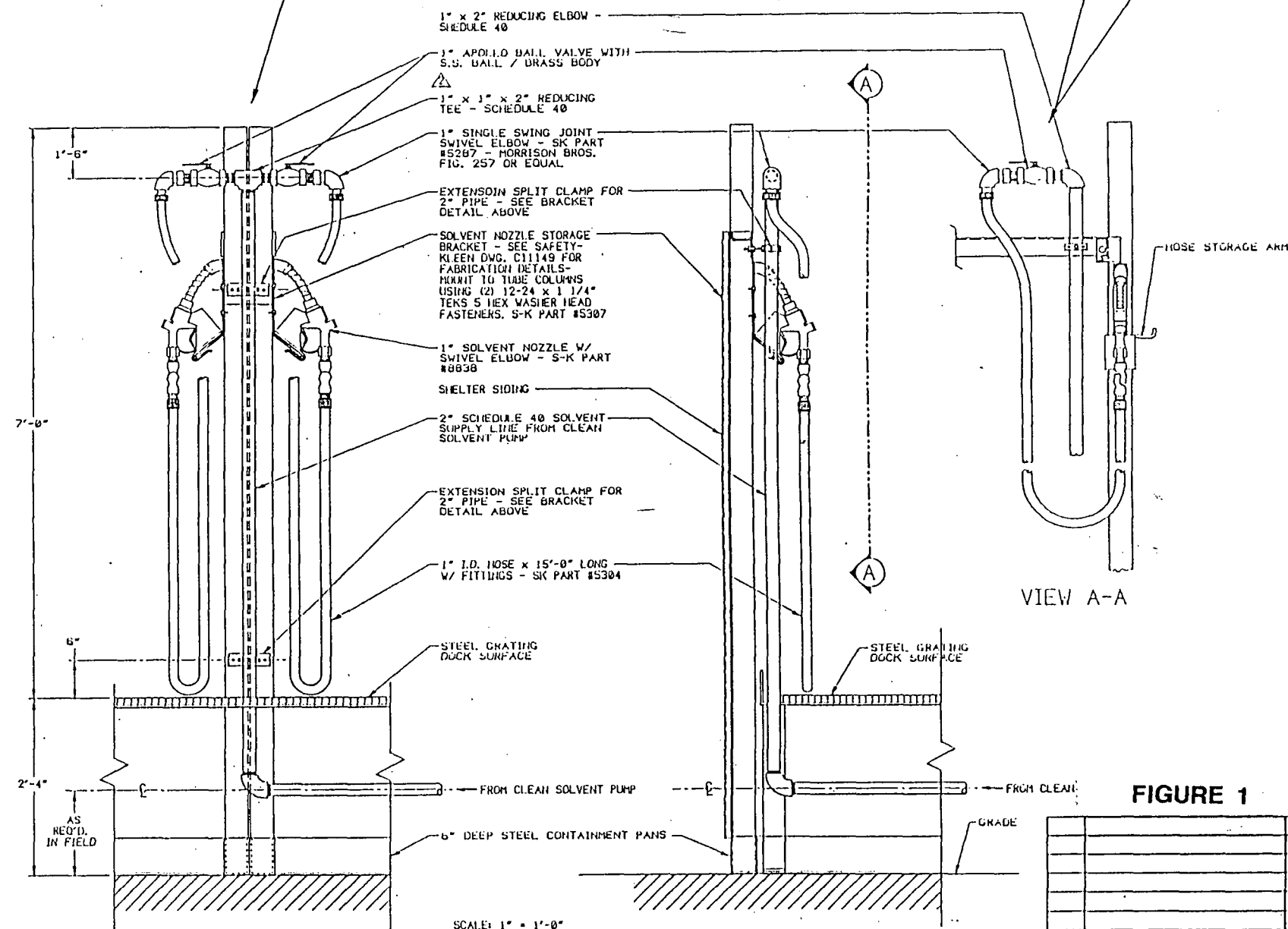
BASEPLATE DETAIL
SCALE: 3" = 1'-0"



INSTALLATION FOR STANDARD BUILDING PLAN



BRACKET DETAIL
1/2' SCALE



DOUBLE OR MULTIPLE BAY INSTALLATION

SINGLE BAY INSTALLATION

- NOTES:**
- ALL ITEMS WITH SAFETY-KLEEN PART NO. REFERENCES WILL BE SUPPLIED TO CONTRACTOR.
 - THIS DRAWING CONTAINS INFORMATION PROPRIETARY TO SAFETY-KLEEN CORP. ANY REPRODUCTION, DISCLOSURE OR USE OF THIS DRAWING IS EXPRESSLY PROHIBITED EXCEPT BY SAFETY-KLEEN OR AS SAFETY-KLEEN MAY AGREE IN WRITING.
 - THIS DRAWING SUPERCEDES SAFETY-KLEEN DRAWINGS C10219 & C10961.
 - SEE INDIVIDUAL SERVICE CENTER PLANS FOR LOCATION OF THESE DETAILS.

FIGURE 1

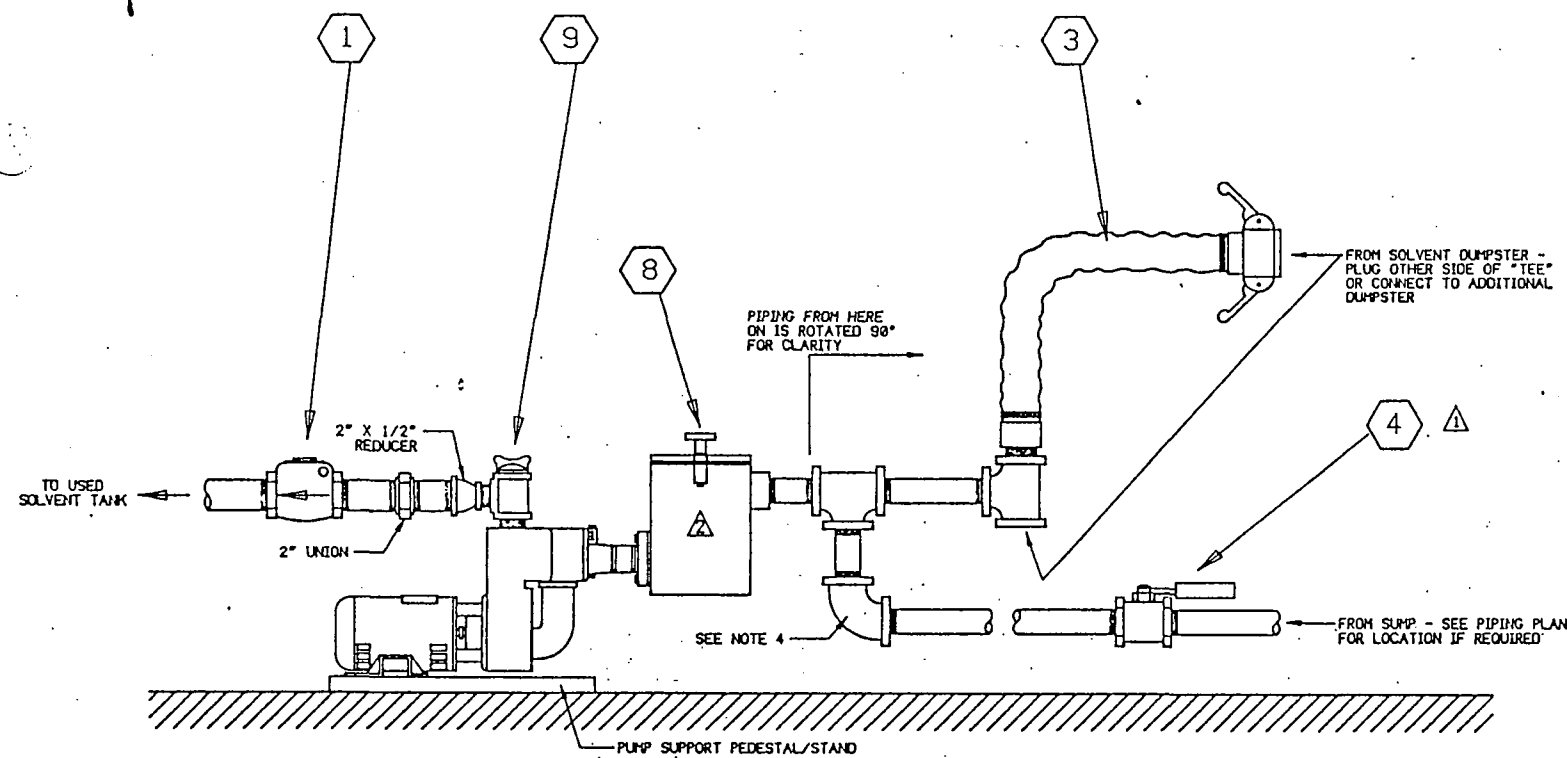
NO.	DESCRIPTION	BY	CHKD	APPR	DATE
2	APOLLO BALL VALVE	MD			8/15/77
1	APOLLO TIE & TIEBOLTED NUTS	MD			8/22/77
1	EXTENSION SPLIT CLAMP FOR 2' PIPE	MD			8/22/77
1	SOLVENT NOZZLE STORAGE BRACKET	MD			8/22/77
1	SOLVENT NOZZLE WITH SWIVEL ELBOW	MD			8/22/77
1	SINGLE SWING JOINT SWIVEL ELBOW	MD			8/22/77
1	1' x 2' REDUCING TEE	MD			8/22/77
1	1' x 1' x 2' REDUCING TEE	MD			8/22/77
1	1' APOLLO BALL VALVE	MD			8/22/77
1	1' x 2' REDUCING ELBOW	MD			8/22/77
1	1' SINGLE SWING JOINT SWIVEL ELBOW	MD			8/22/77
1	1' SOLVENT NOZZLE WITH SWIVEL ELBOW	MD			8/22/77
1	1' I.D. HOSE x 15'-0' LONG WITH FITTINGS	MD			8/22/77
1	2' SCHEDULE 40 SOLVENT SUPPLY LINE	MD			8/22/77
1	EXTENSION SPLIT CLAMP FOR 2' PIPE	MD			8/22/77
1	3' x 5' x 1/4' STEEL ANGLE UPRIGHT	MD			8/22/77
1	U-BOLT CLAMP BRACKET	MD			8/22/77
1	DOCK TOEPLATE ANGLE	MD			8/22/77
1	STEEL GRATING DOCK SURFACE	MD			8/22/77
1	1/2' MASONRY ANCHOR	MD			8/22/77
1	1' SOLVENT NOZZLE STORAGE BRACKET	MD			8/22/77
1	1' SOLVENT NOZZLE WITH SWIVEL ELBOW	MD			8/22/77
1	1' SINGLE SWING JOINT SWIVEL ELBOW	MD			8/22/77
1	1' x 2' REDUCING TEE	MD			8/22/77
1	1' x 1' x 2' REDUCING TEE	MD			8/22/77
1	1' APOLLO BALL VALVE	MD			8/22/77
1	1' x 2' REDUCING ELBOW	MD			8/22/77
1	1' SINGLE SWING JOINT SWIVEL ELBOW	MD			8/22/77
1	1' SOLVENT NOZZLE WITH SWIVEL ELBOW	MD			8/22/77
1	1' I.D. HOSE x 15'-0' LONG WITH FITTINGS	MD			8/22/77
1	2' SCHEDULE 40 SOLVENT SUPPLY LINE	MD			8/22/77
1	EXTENSION SPLIT CLAMP FOR 2' PIPE	MD			8/22/77
1	3' x 5' x 1/4' STEEL ANGLE UPRIGHT	MD			8/22/77
1	U-BOLT CLAMP BRACKET	MD			8/22/77
1	DOCK TOEPLATE ANGLE	MD			8/22/77
1	STEEL GRATING DOCK SURFACE	MD			8/22/77
1	1/2' MASONRY ANCHOR	MD			8/22/77

**SOLVENT DISPENSER TREE
INSTALLATION DETAILS**

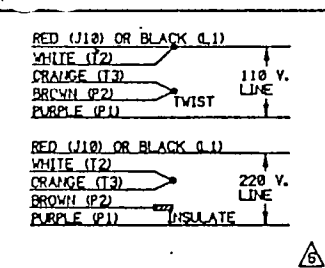
SAFETY-KLEEN CORP.
777 N.W. 10TH AVE., SUITE 100, MIAMI, FL 33136 PHONE 305/587-8000

NO.	DESCRIPTION	BY	CHKD	APPR	DATE
1	APOLLO BALL VALVE	MD			8/15/77
1	APOLLO TIE & TIEBOLTED NUTS	MD			8/22/77
1	EXTENSION SPLIT CLAMP FOR 2' PIPE	MD			8/22/77
1	SOLVENT NOZZLE STORAGE BRACKET	MD			8/22/77
1	SOLVENT NOZZLE WITH SWIVEL ELBOW	MD			8/22/77
1	SINGLE SWING JOINT SWIVEL ELBOW	MD			8/22/77
1	1' x 2' REDUCING TEE	MD			8/22/77
1	1' x 1' x 2' REDUCING TEE	MD			8/22/77
1	1' APOLLO BALL VALVE	MD			8/22/77
1	1' x 2' REDUCING ELBOW	MD			8/22/77
1	1' SINGLE SWING JOINT SWIVEL ELBOW	MD			8/22/77
1	1' SOLVENT NOZZLE WITH SWIVEL ELBOW	MD			8/22/77
1	1' I.D. HOSE x 15'-0' LONG WITH FITTINGS	MD			8/22/77
1	2' SCHEDULE 40 SOLVENT SUPPLY LINE	MD			8/22/77
1	EXTENSION SPLIT CLAMP FOR 2' PIPE	MD			8/22/77
1	3' x 5' x 1/4' STEEL ANGLE UPRIGHT	MD			8/22/77
1	U-BOLT CLAMP BRACKET	MD			8/22/77
1	DOCK TOEPLATE ANGLE	MD			8/22/77
1	STEEL GRATING DOCK SURFACE	MD			8/22/77
1	1/2' MASONRY ANCHOR	MD			8/22/77
1	1' SOLVENT NOZZLE STORAGE BRACKET	MD			8/22/77
1	1' SOLVENT NOZZLE WITH SWIVEL ELBOW	MD			8/22/77
1	1' SINGLE SWING JOINT SWIVEL ELBOW	MD			8/22/77
1	1' x 2' REDUCING TEE	MD			8/22/77
1	1' x 1' x 2' REDUCING TEE	MD			8/22/77
1	1' APOLLO BALL VALVE	MD			8/22/77
1	1' x 2' REDUCING ELBOW	MD			8/22/77
1	1' SINGLE SWING JOINT SWIVEL ELBOW	MD			8/22/77
1	1' SOLVENT NOZZLE WITH SWIVEL ELBOW	MD			8/22/77
1	1' I.D. HOSE x 15'-0' LONG WITH FITTINGS	MD			8/22/77
1	2' SCHEDULE 40 SOLVENT SUPPLY LINE	MD			8/22/77
1	EXTENSION SPLIT CLAMP FOR 2' PIPE	MD			8/22/77
1	3' x 5' x 1/4' STEEL ANGLE UPRIGHT	MD			8/22/77
1	U-BOLT CLAMP BRACKET	MD			8/22/77
1	DOCK TOEPLATE ANGLE	MD			8/22/77
1	STEEL GRATING DOCK SURFACE	MD			8/22/77
1	1/2' MASONRY ANCHOR	MD			8/22/77

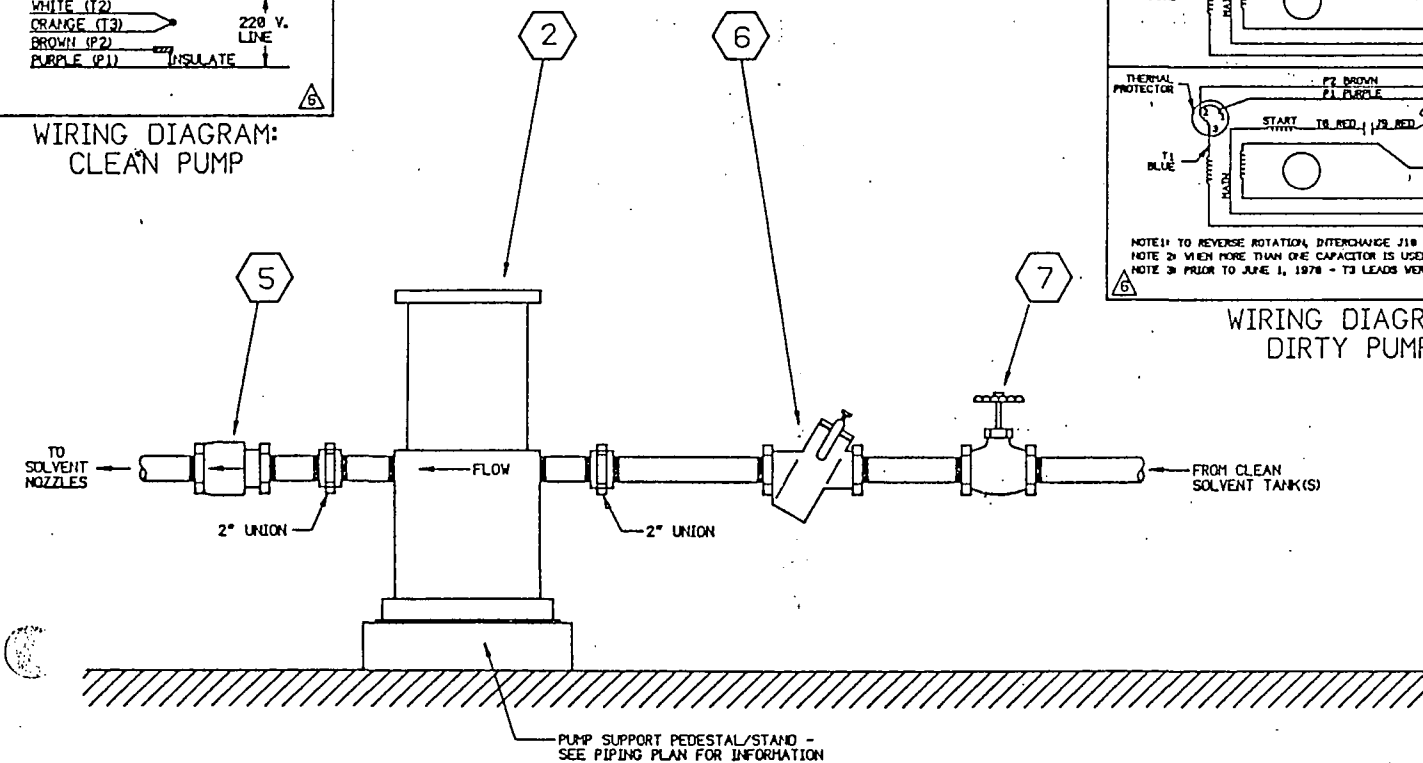
1/13
2/20/03-GD



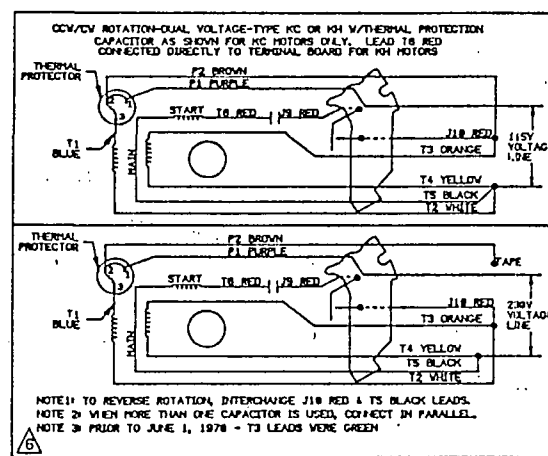
USED SOLVENT PUMP INSTALLATION



WIRING DIAGRAM:
CLEAN PUMP



CLEAN SOLVENT PUMP INSTALLATION

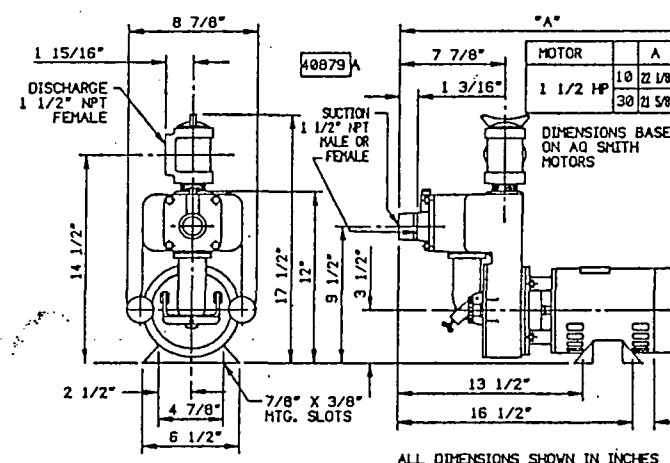


WIRING DIAGRAM:
DIRTY PUMP

EQUIPMENT / FIXTURE SCHEDULE				
MARK	SIZE	DESCRIPTION	SK PART NO.	REMARKS
1	2"	2" BRONZE CHECK VALVE - MORRISON BROS. FIG. 246-A	5288	
2	2"	2" MARLOW PUMP - 20 EVP 10A 1 HP EXPLOSION PROOF MOTOR W/JUNCTION BOX - VITON FITTED	5240	SEE SPECIFICATION DETAILS ON SAFETY-KLEEN DWG. A11118 BELOW
3	2"	2" DUMPSTER HOSE ASSEMBLY	5234	SEE SAFETY-KLEEN DWG. D10452 FOR DETAILED INFORMATION
4	2"	2" APOLLO BALL VALVE, BRONZE BODY W/STAINLESS STEEL BALL & TRIPL. TEFLON SEALS & CONBRACO SPRING LOADED SELF CLOSING DEADMAN HANDLE	5272	
5	2"	2" BACK PRESSURE VALVE VERTICAL TYPE WITH 6 PSI SPRING SETTING - MORRISON BROS. FIG. 158-B/PR (15 P.S.I. OPEN)	5268	FOR ABOVEGROUND TANK INSTALLATION ONLY
6	2"	2" LINE STRAINER W/TOP CLEAN-OUT W/120 MESH MORRISON BROS. FIG. 286	5269	
7	2"	2" BRONZE GATE VALVE MORRISON BROS. FIG. 235	5236	
8	2"	2" MARLOW SUCTION STRAINER ASSEMBLY MODEL 2810X W/STAINLESS STEEL BASKET W/118 PERFORATIONS	5313	FLANGED DISCHARGE PORT OF STRAINER SERVES AS UNION ON SUCTION SIDE OF PUMP
9	1 1/2"	1 1/2" MARLOW PUMP - 1 1/2HR49EC, SINGLE PHASE, EXPLOSION PROOF, BUNA FITTED, SELF PRIMING CENTRIFUGAL	5330	SEE DETAIL BELOW LEFT

PUMP UNITS WITH OPEN MOTORS
1 1/2HR49EC

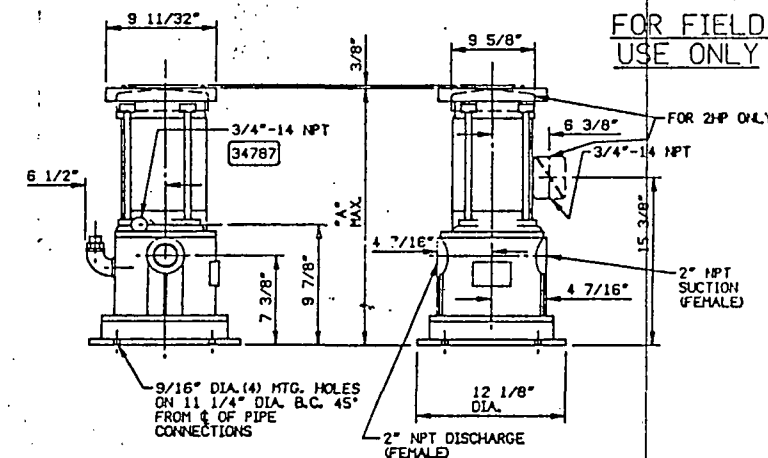
DWGS BASED ON "AQ SMITH" MOTORS



THESE DIMENSIONS NOT TO BE USED FOR CONSTRUCTION PURPOSES WITHOUT FORMAL FACTORY APPROVAL.

GENERAL NOTES

- THIS DRAWING SUPERCEDES SAFETY-KLEEN CORP. DRAWING A1118
- SEE INDIVIDUAL SERVICE CENTER SITE & PIPING PLANS FOR LOCATIONS & ARRANGEMENT OF THESE DETAILS.
- FOR UNDERGROUND TANK INSTALLATIONS, A 90° CHECK VALVE MORRISON BROS. FIG. 137 OR APPROVED EQUAL SHOULD BE INSTALLED AT TOP OF TANK ON CLEAN PUMP SUCTION LINE (CLEAN TANKS ONLY).
- ALL PIPING TO BE 2" SCHEDULE 40 GALVANIZED UNLESS OTHERWISE SPECIFIED. ALL CHANGES OF DIRECTION IN DIRTY SOLVENT PIPING TO BE ACCOMPLISHED USING EITHER (2)-45° ELBOWS OR (1)-LONG RADIUS 90° ELBOW.
- THIS DRAWING CONTAINS INFORMATION PROPRIETARY TO SAFETY-KLEEN CORP. ANY REPRODUCTION, DISCLOSURE OR USE OF THIS DRAWING IS EXPRESSLY PROHIBITED EXCEPT BY SAFETY-KLEEN OR AS SAFETY-KLEEN MAY AGREE IN WRITING.
- ALL ITEMS WITH SAFETY-KLEEN PART NO. REFERENCES WILL BE SUPPLIED TO CONTRACTOR.



GENERAL NOTES

- MODEL TO BE USED BY SAFETY-KLEEN CORP. - MODEL 20 EVP-10A, 1 HP - 2" WITH EXPLOSION PROOF MOTOR W/JUNCTION BOX & VITON FITTED, SINGLE PHASE 60 CYCLE 115/230V.
- SEE INDIVIDUAL SERVICE CENTER SITE PLANS FOR LOCATION OF THE INSTALLATION.

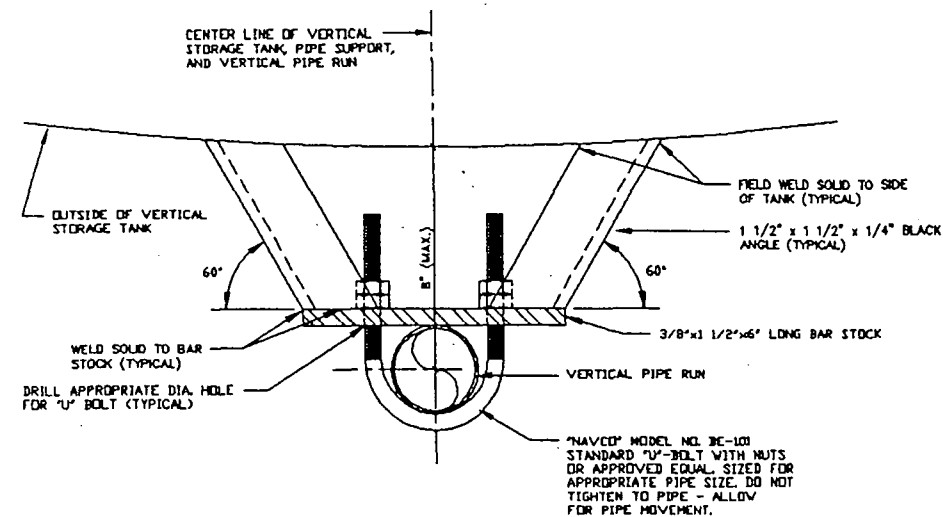
S-K PART NO.	G.E. EXPL. PROOF MOTORS			
	HP	PHASE	CYCLE	A
5240	1	60	20 13/32"	115/230

FIGURE 2

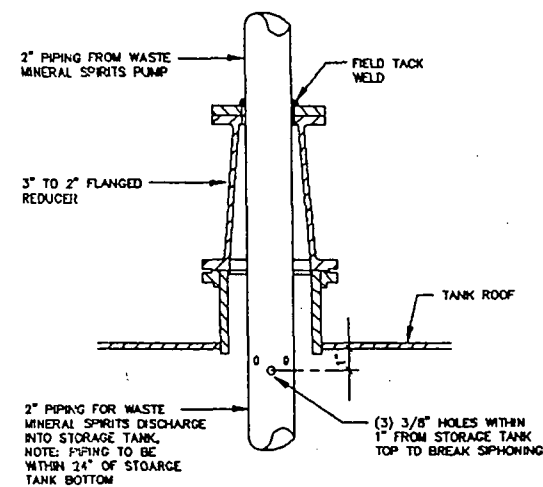
NO.	DESCRIPTION	BY	CHKD
1	ADDED V.O.'S FOR CLEAN & USED PUMPS	RD	
2	ADDED NEW PUMP FOR DIRTY SOLVENT TO VIEW & TABLE, ADDED PUMP SPEC'S	RD	
3	ADDED NOTE 6	WLJ	
4	ADDED PUMP SPECS - DWG A11118	WLJ	
5	ADDED ITEM 6 & ADDED TO NOTE 1	WLJ	
6	CHANGED ITEM 1 TO NEW TYPE VALVE	WLJ	

TITLE			
SOLVENT PUMP PIPING INSTALLATION DETAILS			
SAFETY-KLEEN CORP.			
777 800 THIRD ROAD, ELGIN, ILLINOIS 60120 PHONE 912/777			
PROJ. ENGR. APPR.	OPERATIONS APPR.	SCALE	DRAWN
		NTS	WVO-PBC
BRANCH FOR SERVICE CENTER BRANCH		DRAWING NO.	D11150

2/24/89 BJS
PBC

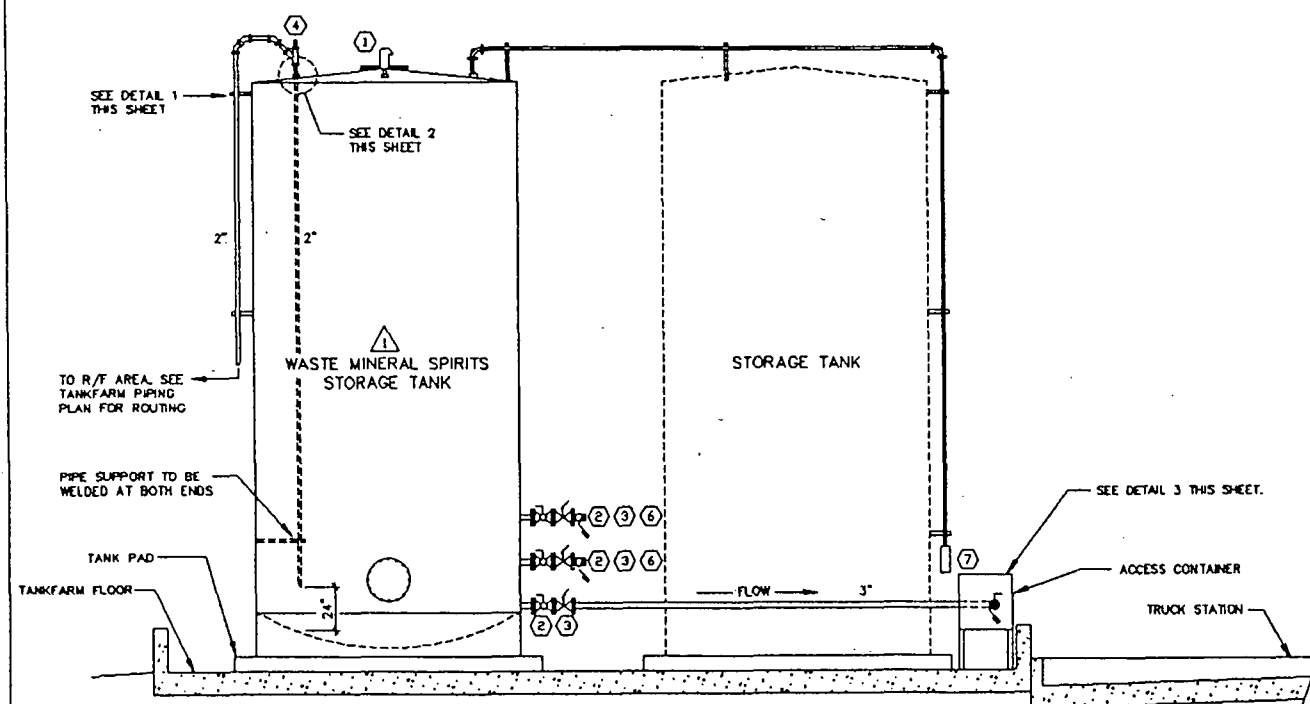


1 VERTICAL PIPE SUPPORT DETAIL
 NOTE: SIMILAR DETAIL TO BE USED FOR SUPPORTING PIPE RUNS ACROSS TANK TOPS.
 NOTE: PAINT U-BOLT & NUTS, BARSTOCK, & ANGLES PER TANK PAINTING SPECS.
 SCALE: NONE

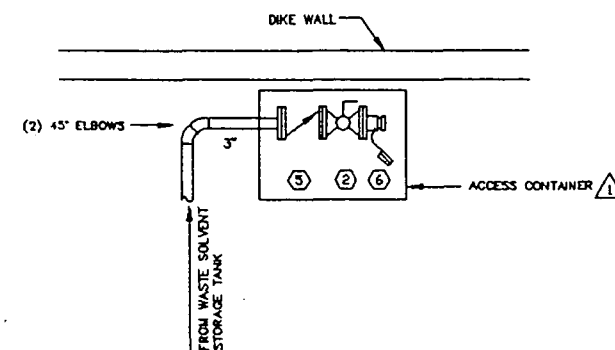


2 TANK DOME PIPING PENETRATION DETAIL
 SCALE: NONE

EQUIPMENT SCHEDULE			
MARK	PART DESCRIPTION	SK PART	REMARKS
①	3" THREADED BRASS PRESSURE/VACUUM VENT. (2oz. pressure/1oz. vacuum)	5339	⚠
②	3" FLANGED DUCTILE IRON BALL VALVE	-	LOCKING TYPE ⚠
③	3" FLANGED DUCTILE IRON EXTERNAL EMERGENCY VALVE WITH FUSIBLE LINK (160° F)	-	⚠
④	3/8" THREADED BRASS AUTOMATIC VACUUM BREAKER	5236	⚠
⑤	3" FLANGED DUCTILE IRON SWING CHECK VALVE	-	⚠
⑥	3" FLANGED ALUMINUM CAMLOC QUICK COUPLING WITH CAP AND CHAIN	-	⚠
⑦	TANK GAUGE	-	SEE INSTALLATION DETAILS ON DRAWING #2025 ⚠



PARTIAL TANK FARM PIPING ELEVATION, TYPICAL
 (SEE TANK FARM PIPING PLAN FOR ACTUAL PIPING ROUTINGS.)
 SCALE: NONE



3 ACCESS CONTAINER PIPING DETAIL
 SCALE: NONE

FIGURE 3

GENERAL NOTES

THIS DRAWING CONTAINS INFORMATION PROPRIETARY TO SAFETY-KLEEN CORPORATION. ANY REPRODUCTION, DISCLOSURE OR USE OF THIS DRAWING IS EXPRESSLY PROHIBITED EXCEPT BY SAFETY-KLEEN OR AS SAFETY-KLEEN MAY AGREE IN WRITING.

⚠ SUPPLIED BY SAFETY-KLEEN.

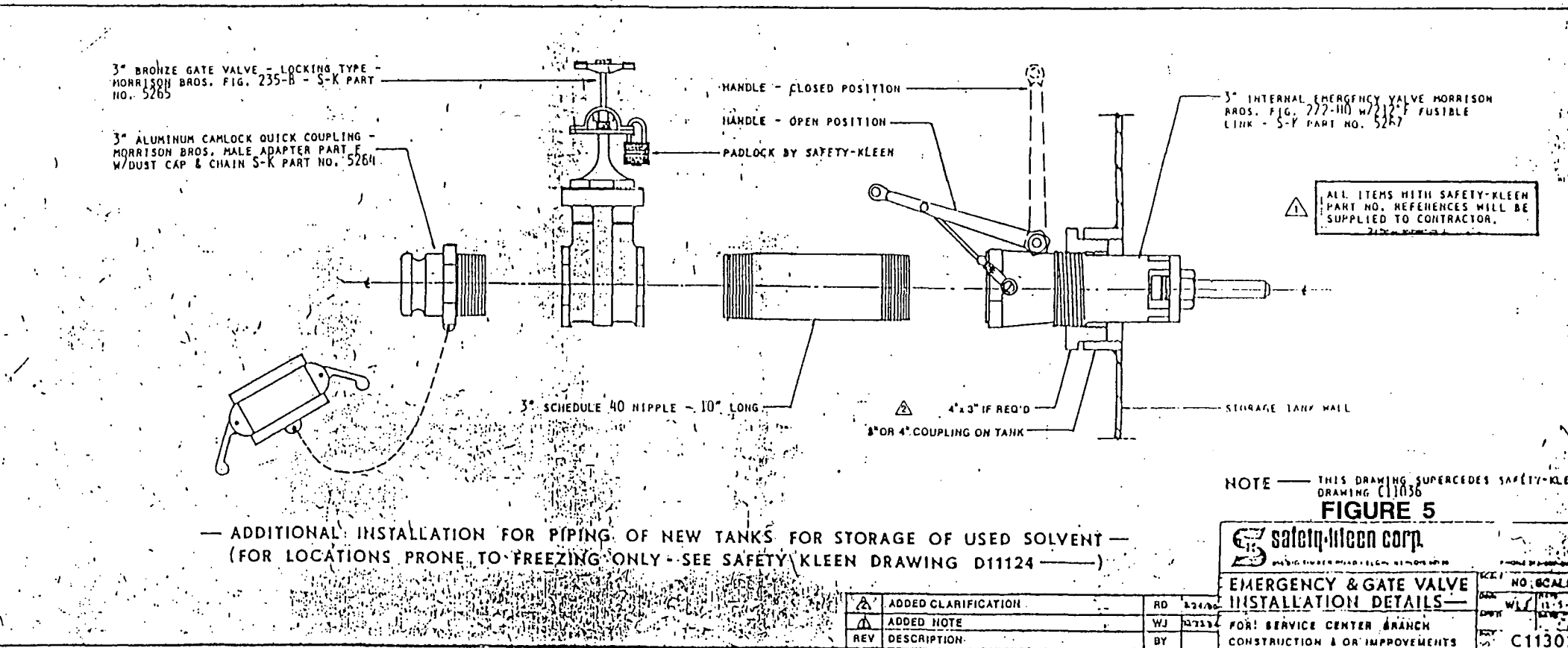
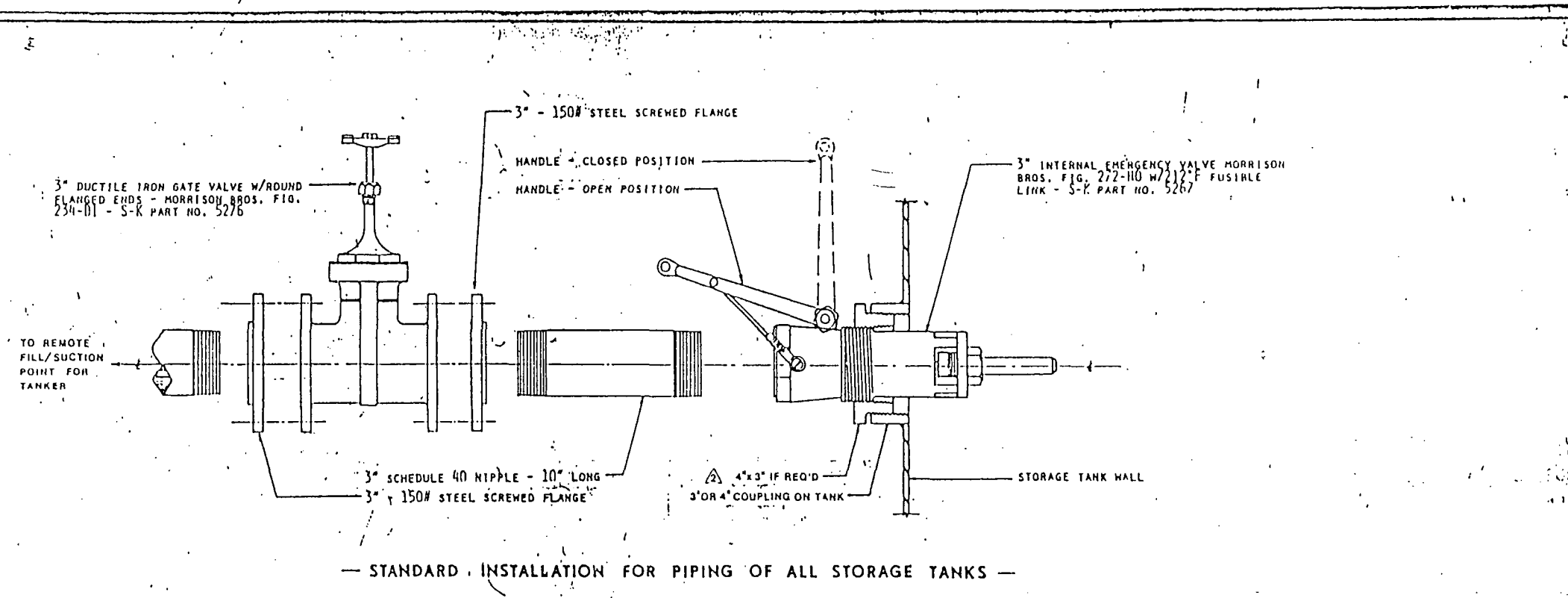
2. ALL DIRECTION CHANGES IN WASTE SOLVENT PIPING LINES TO BE MADE USING A COMBINATION OF 45° ELBOWS OR LONG SWEEP 90° ELBOWS.

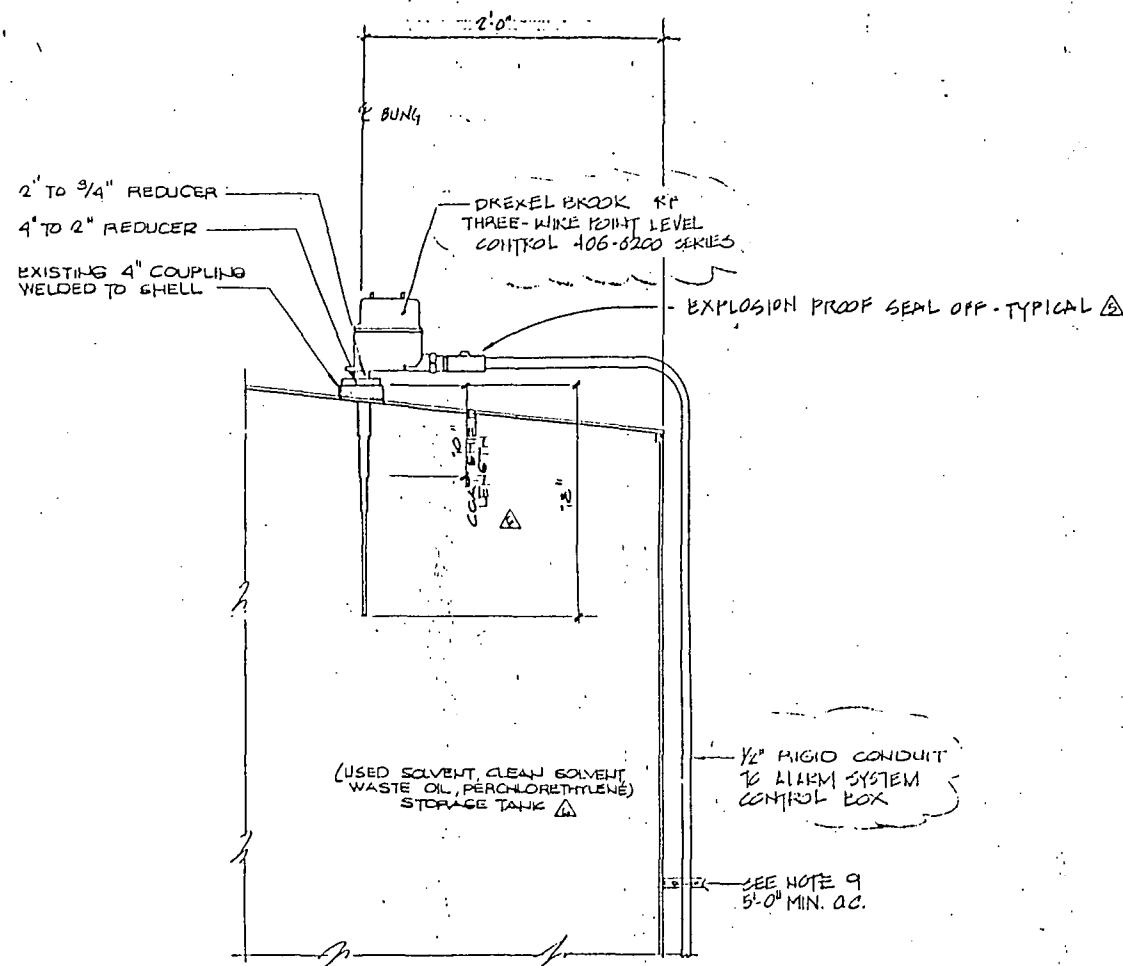
QUESTEC
 CONSULTING ENGINEERS
 4012 Sandusky Drive • Columbus • MO 63205 • (314) 979-0800

TITLE
 TANK FARM / WASTE
 MINERAL SPIRITS PIPING PLAN

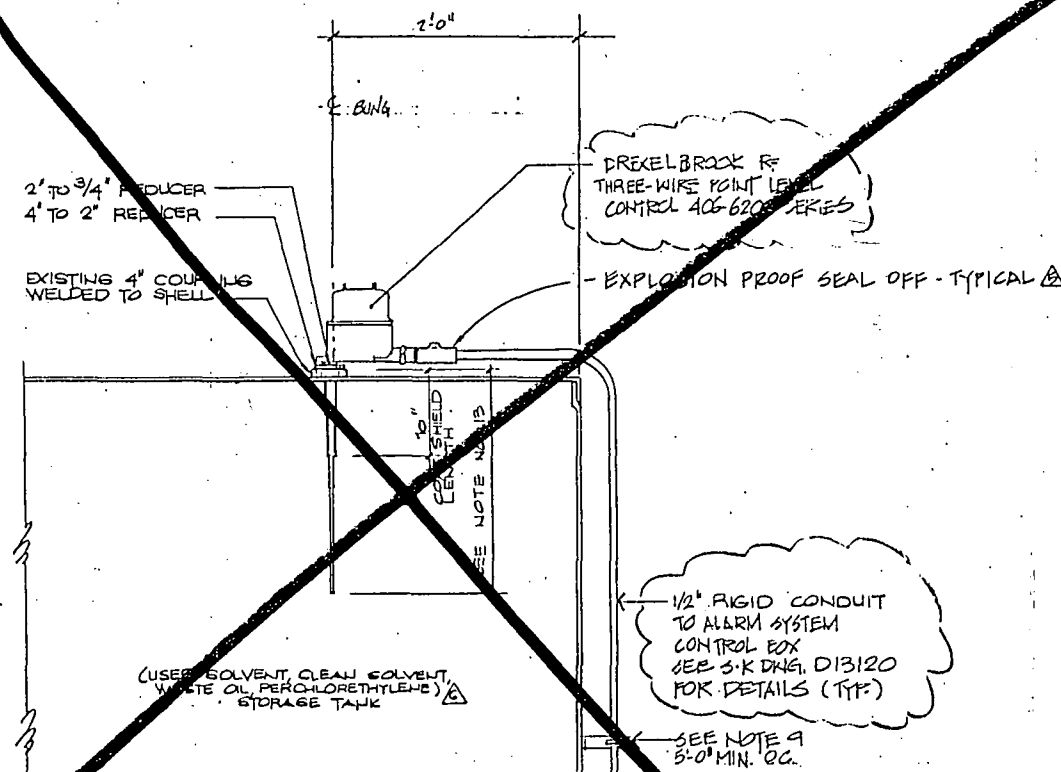
SAFETY-KLEEN CORP.
 777 BIG TIMBER ROAD • ELEM, ILLINOIS 61222 • PHONE 708-697-8464

SCALE: NONE BY: OverTec CHKD: P.E. APPR: OP. APPR: DATE: 9-27-91
 NO. DESCRIPTION BY CHK APPR DATE
 REVISIONS
 SC-DWG-REV NO. 316301-2011-00 SHEET NO. 49

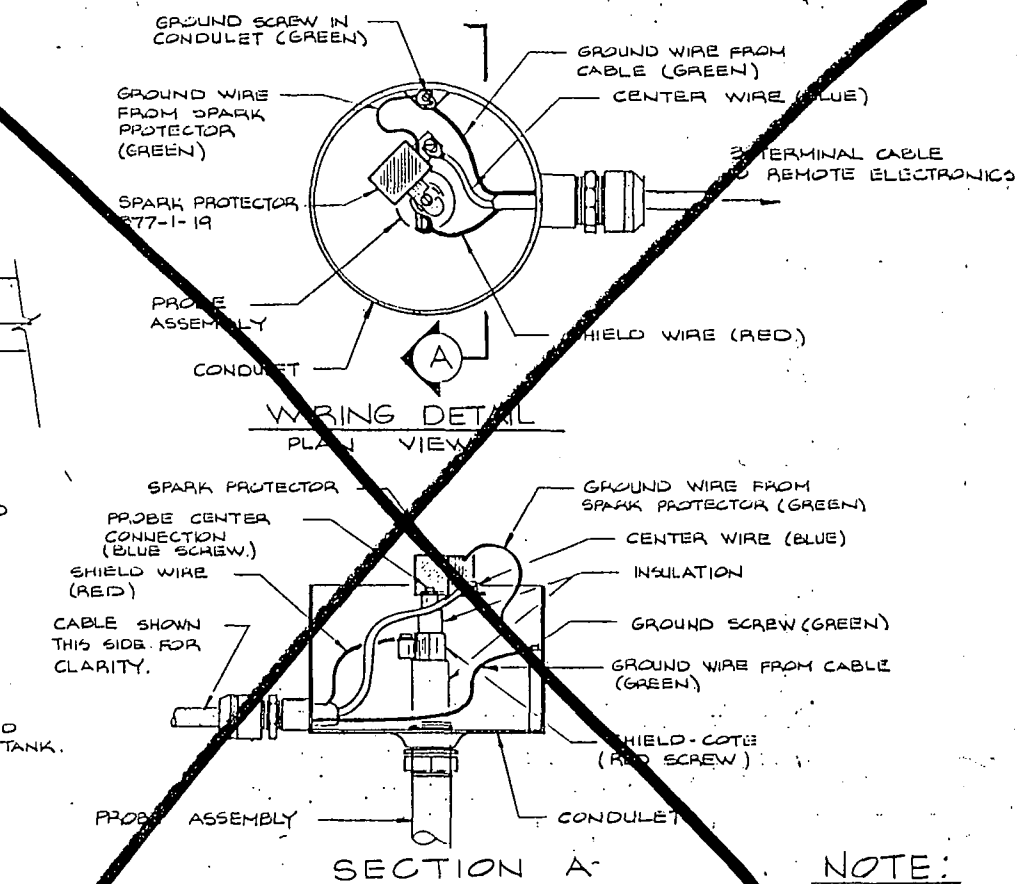
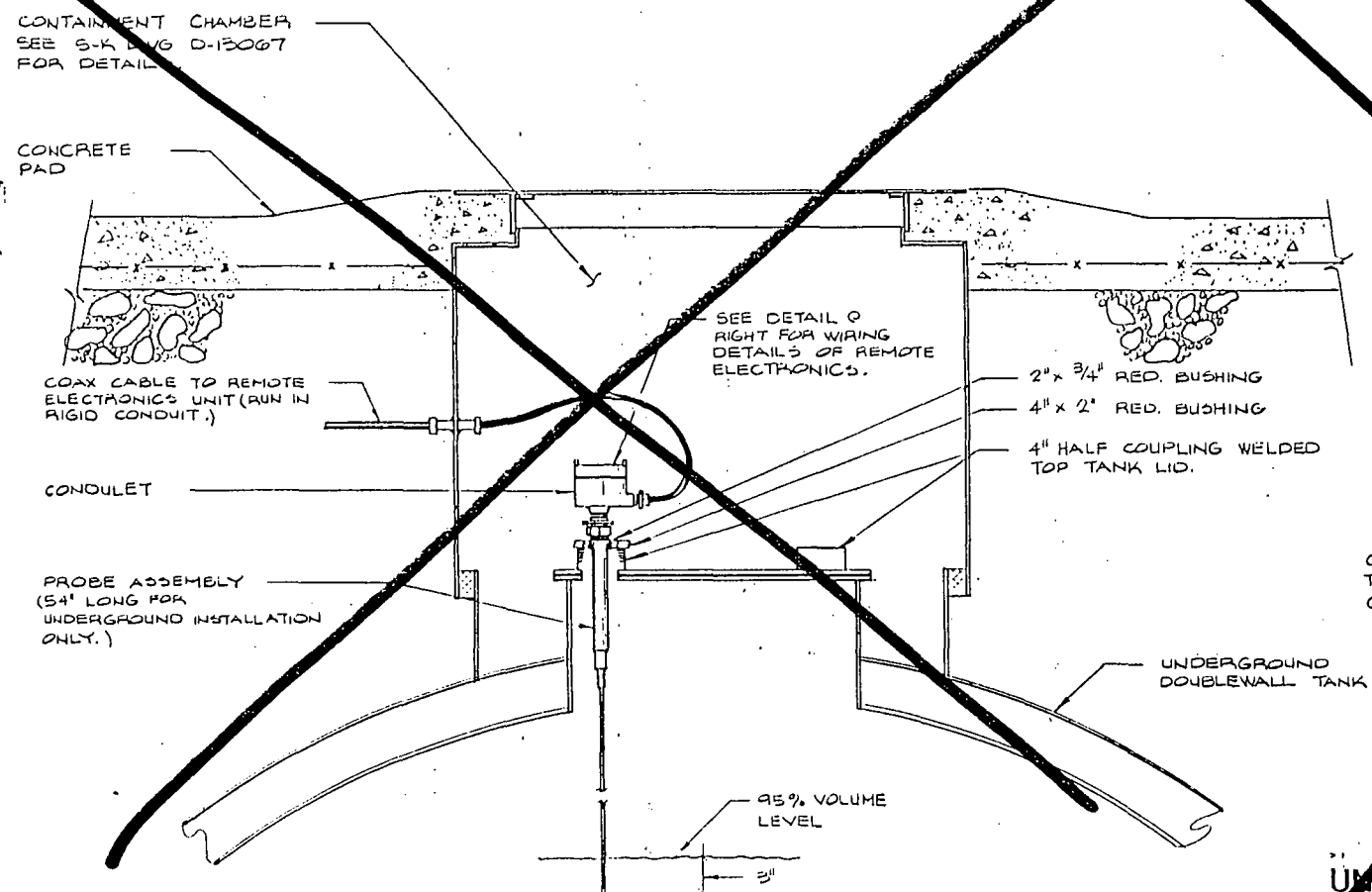




ABOVEGROUND VERTICAL TANK INSTALLATION



ABOVEGROUND HORIZONTAL TANK INSTALLATION



UNDERGROUND TANK INSTALLATION

GENERAL NOTES

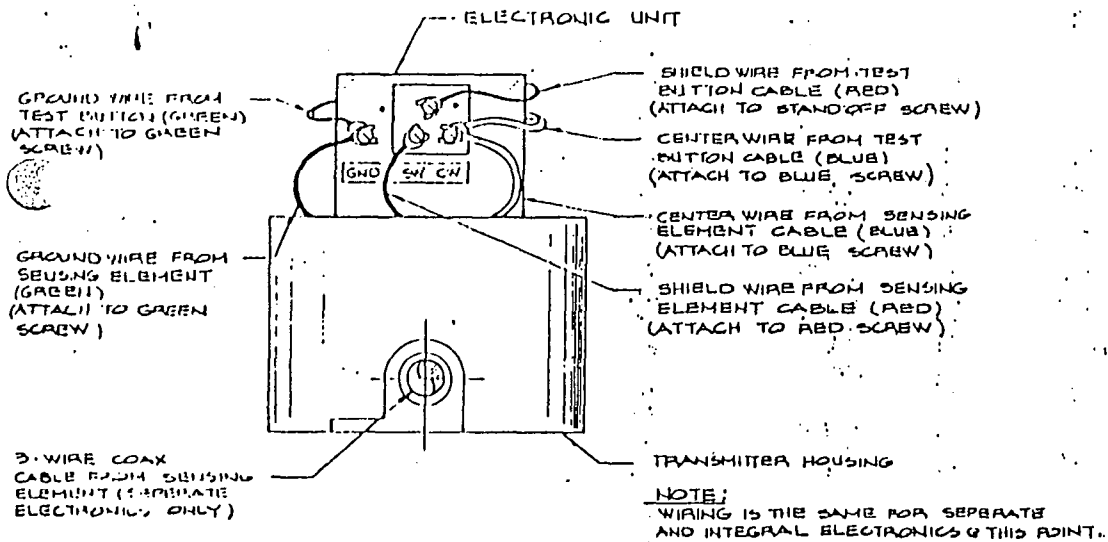
- POWER REQUIREMENT 13 TO 28 VDC
- OUTPUT 4 - 10 mA (ALARM STATE)
15 - 25 mA (NORMAL STATE)
- OPERATING TEMP. -40°F TO +140°F
- SHIELD-TO-GROUND LOADING:
25 ohm MIN. RESISTANCE
- RFI EFFECT: LESS THAN 2 pF SHIFT
IN OPERATING POINT FOR UNIT IN
EXPLOSION-PROOF HOUSING FROM 5 M
FIELD @ 27, 150, OR 430 MHz AT A
DISTANCE OF 5 FT. FROM EXPOSED
CABLE OR SIGNAL WIRE.
- FAIL-SAFE: SWITCHABLE OR EITHER
LOW-LEVEL FAIL-SAFE (LLFS) OR
HIGH-LEVEL FAIL SAFE (HLFS).
- HOUSING: NEMA 12-WATERPROOF
EXPLOSION PROOF FOR CLASS I GROUPS
A, B, C, D, AND CLASS II GROUPS E, F, G
DIV. 1 OR 2.
- SEE INDIVIDUAL SERVICE CENTER SITE PLANS
FOR RELATIVE LOCATIONS OF THESE DETAILS.
- CONTRACTOR TO SUPPLY & INSTALL CONDUIT
SUPPORTS & BRACKETS AS REQUIRED.
- THIS DRAWING CONTAINS INFORMATION
PROPRIETARY TO SAFETY-KLEEN CORP. ANY
REPRODUCTION, DISCLOSURE OR USE OF THIS
DRAWING IS EXPRESSLY PROHIBITED BY
SAFETY-KLEEN
- ALL ITEMS SHOWN WITH A SAFETY-KLEEN PART
NUMBER WILL BE SUPPLIED BY SAFETY-KLEEN
CORP. (e.g. S-K-)
- IF INDIVIDUAL SERVICE CENTER CONDITIONS
ARE NOT COVERED BY DETAILS SHOWN HERE,
PLEASE CONTACT TECHNICAL SERVICES AT THE
CORPORATE OFFICE FOR ASSISTANCE.
- △ CALCULATIONS FOR LENGTH OF PROBE INSIDE
OF TANK ARE SET TO ACTIVATE THE ALARM
AT THE 95% VOLUME LEVEL.
- △ ALL CALIBRATION OF UNIT SHALL BE DONE
IN ACCORDANCE WITH DREXELBROOK'S
RECOMMENDATIONS. CALIBRATION SHALL
BE DONE AFTER ALL COMPONENTS OF
SYSTEM ARE IN PLACE.
- ALL TANKS SHALL BE GROUNDED PRIOR
TO INSTALLATION OF ALARM SYSTEM.

FIGURE 6A

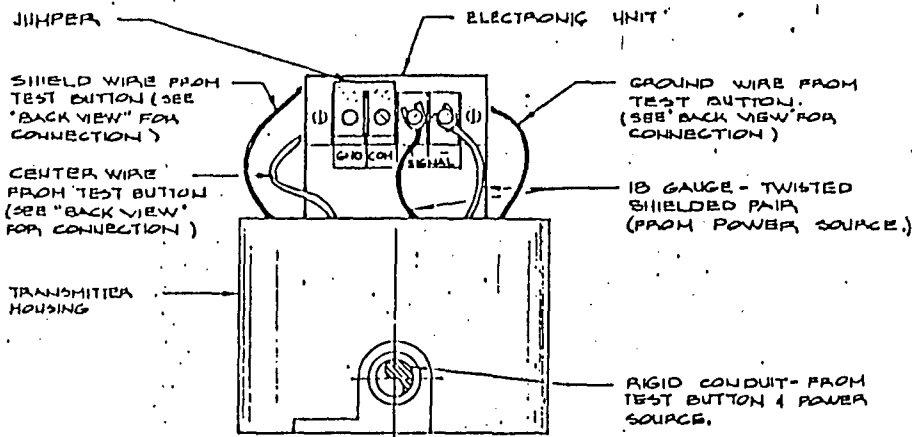
△ REDRAW UNDERGROUND INSTALLATION ADD MORE DETAILS & CHANGE CONDUIT TO RIGID ON VERT. & HOR. TANK INSTALLATION.	RD	1-4-90
△ ADD EXPLOSION PROOF SEAL OFF NOTE	PLB	7-20-90
△ CHANGE PROBE DEPTH, NOTE 13	PLB	11-13-90
safety-kleen corp. 777 BIG TIMBER ROAD • ELGIN, ILLINOIS 60123 PHONE 312/697-6180		
HIGH LEVEL ALARM SYSTEM TRANSMITTER TO TANK INSTALLATION DETAILS		
REVISION	DATE	BY
NONE	6-22-88	RD
△ Added Chert & Misc. Info	7-1-89	RD
△ 1/2" Ø WAS 1/4" 2 1/2" WAS 1 1/2"	7-1-89	RD
△ Added SEAL OFF	7-1-89	RD
FOR: SERVICE CENTER BRANCH		

NOTE:

WORK THIS DWG. WITH SK DWGS
D-13929 AND D-14218



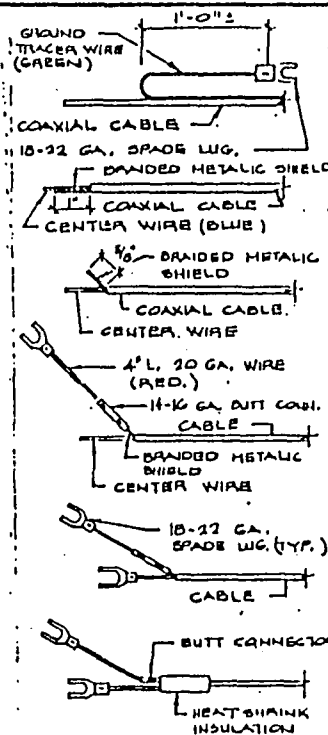
**ELECTRONIC UNIT
BACK VIEW**
(SENSING ELEMENT CONNECTIONS)



**ELECTRONIC UNIT
FRONT VIEW**
(SIGNAL WIRING)

TERMINATIONS OF COAXIAL CABLE

1. Cut cable to required length plus 1". Strip the ground tracer wire away from the rest to a length of about 1". Strip about 3/16" of insulation from the rest of the wire. Crimp on 18-22 ga. spade terminal lug onto the ground wire. If possible, this wire should be color-coded green to match the color scheme for the ground connection.
2. Strip outer insulation back 1", cutting down to braid and including braided metallic shield.
3. Remove the metallic braid from the center wire insulation. Twist the braid tightly together. Cut the isolated braid to a length of about 3/8".
4. Strip a 18-22 ga. crimp-on butt connector, attach a 4" piece of 18 ga. stranded insulated wire to the isolated braid. In order to make a strong connection with the larger gauge of the butt connector, a 3/16" stripped length of the 18 ga. wire should be twisted and then folded back upon itself before insertion into the butt connector. Crimp on 18-22 ga. spade terminal lug onto the other end of the 4" wire. If possible, this wire should be color-coded red to match the color scheme for the center wire connection.
5. Strip about 1/2" of the lower plastic insulation to expose the center wire. Strip on 18-22 ga. spade terminal lug over the bare center wire so that the insulation of the spade lug bottoms out on the lower insulation and the tip of the wire shows at the lug end. Crimp the lug and test wire across center wire. If possible, this wire should be color-coded blue to match the color scheme for the probe/center wire connection.
6. Strip 1" of 1/2" diameter heatshrink insulation over cable end so that all metallic braid is well covered. Heat the insulation until it shrinks and tightly grips the cable. (Buy heat source of 300-350 degrees needed. A propane torch with a low level flame is recommended.)



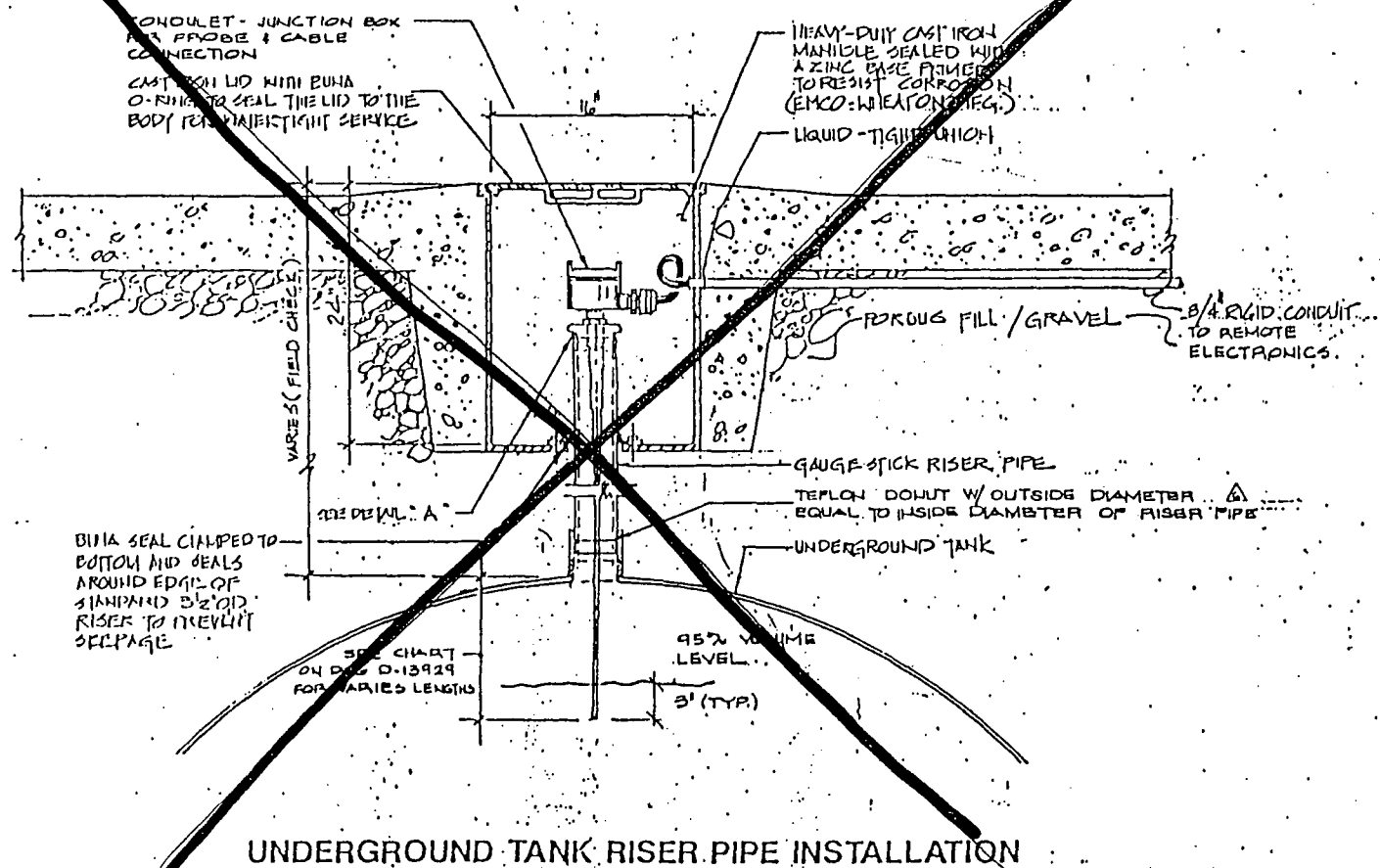
NOTE:

WORK THIS DWG. WITH SKDWGS
D-13929 AND D-13102

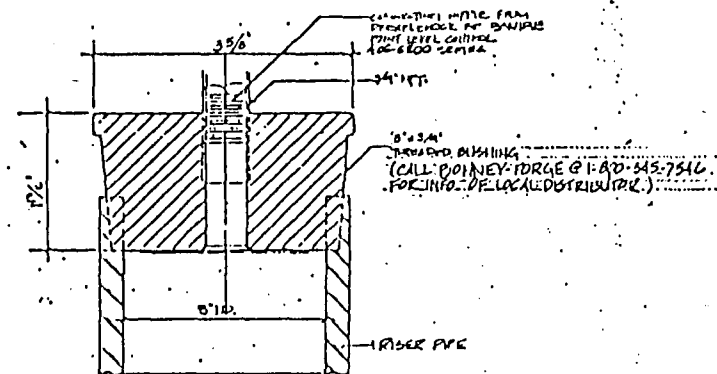
GENERAL NOTES

1. POWER REQUIREMENT 15 TO 20 VDC
1. OUTPUT 4 - 10 m (ALARM STATE)
15 - 25 m (NORMAL STATE)
3. OPERATING TEMP. -40°F TO +140°F
4. SHIELD-TO-GROUND LEADING:
25 ohm MIN. RESISTANCE
5. AFE EFFECT: LESS THAN 2 pF SHIFT
IN OPERATING POINT FOR UNIT IN
EXPLOSION-PROOF HOUSING FROM 3 V
FIELD @ 27, 150, OR 450 mH AT A
DISTANCE OF 3 FT. FROM EXPOSED
CABLE OR SIGNAL WIRE.
6. FAIL-SAFE: SWITCHABLE ON EITHER
LOW-LEVEL FAIL-SAFE (LLFS) OR
HIGH-LEVEL FAIL-SAFE (HLFS).
7. HOUSING: NEKA 11-WATERPROOF
EXPLOSION PROOF FOR CLASS I GROUPS
A, B, C, D, AND CLASS II GROUPS E, F, G
DN, 1 OR 2.
8. SEE INDIVIDUAL SERVICE CENTER SET PLANS
FOR RELATIVE LOCATIONS OF THESE DETAILS.
9. CONTRACTOR TO SUPPLY & INSTALL CONDUIT
SUPPORTS & BRACKETS AS REQUIRED.
10. THIS DRAWING CONTAINS INFORMATION
PROPRIETARY TO SAFETY-ELEEN CORP. ANY
REPRODUCTION, DISCLOSURE OR USE OF THIS
DRAWING IS EXPRESSLY PROHIBITED BY
SAFETY-ELEEN
11. ALL ITEMS SHOWN WITH A SAFETY-ELEEN PART
NUMBER WILL BE SUPPLIED BY SAFETY-ELEEN
CORP. (e.g. SK-111111)
12. IF INDIVIDUAL SERVICE CENTER CONDITIONS
ARE NOT COVERED BY DETAILS SHOWN HERE,
PLEASE CONTACT TECHNICAL SERVICES AT THE
CORPORATE OFFICE FOR ASSISTANCE.
13. CALCULATIONS FOR LENGTH OF PROBE INSIDE
OF TANK ARE SET TO ACTIVATE THE ALARM
AT THE 95% VOLUME LEVEL.
14. ALL CALIBRATION OF UNIT SHALL BE DONE
IN ACCORDANCE WITH OPERATOR'S
RECOMMENDATIONS. CALIBRATION SHALL
BE DONE AFTER ALL COMPONENTS OF
SYSTEM ARE IN PLACE.
15. ALL TANKS SHALL BE GROUNDED PRIOR
TO INSTALLATION OF ALARM SYSTEM.

THIS DOCUMENT HAS BEEN PREPARED
AND IS APPROVED BY ME FOR INCLUSION
IN THE SERIAL PERMIT
APPLICATION ONLY. IT IS NEITHER
APPROVED NOR IS IT TO BE USED
FOR EQUIPMENT OR MATERIAL
PROCUREMENT, CONSTRUCTION, OR
ANY OTHER PURPOSE.



UNDERGROUND TANK RISER PIPE INSTALLATION



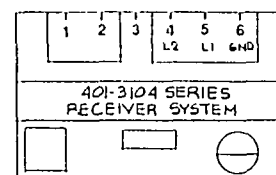
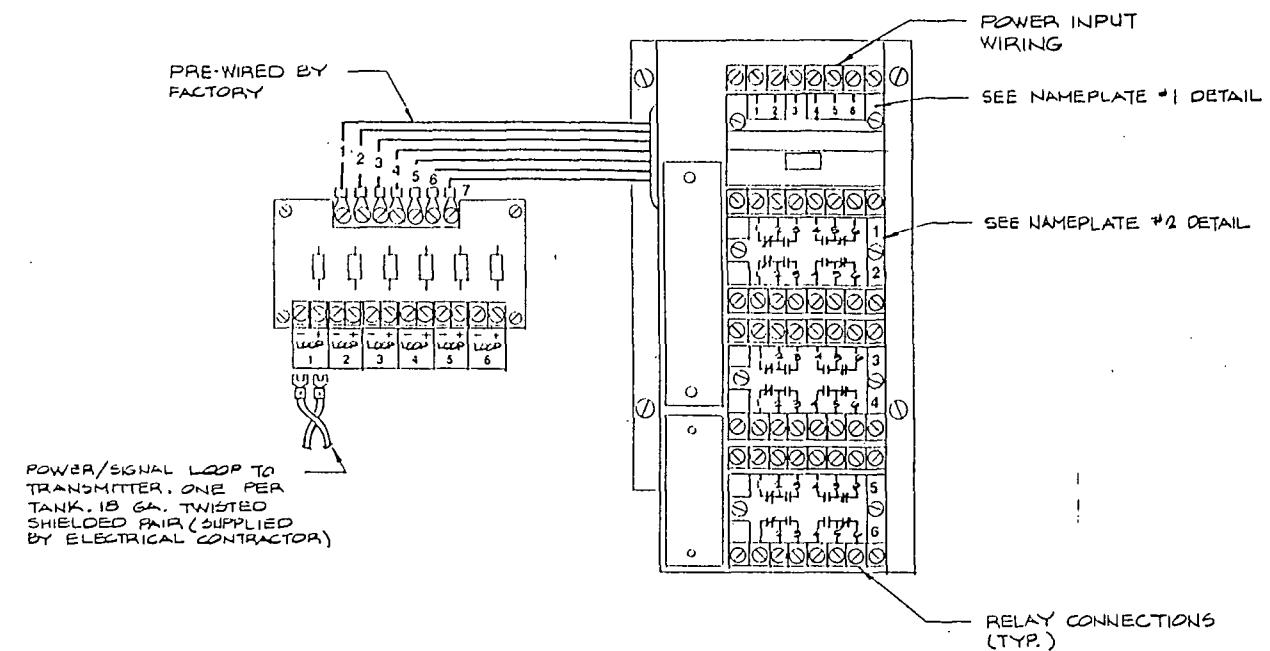
DETAIL A

CALIBRATION OF ELECTRONICS

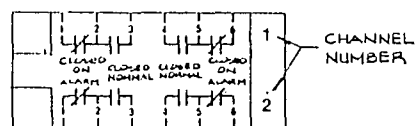
1. Verify that the liquid is not covering the probe. This can be done by checking the reading on the tank's tape gauge. If the tank is less than full, the probe will not be immersed in liquid.
2. The calibration should be performed with all electrical connections of the system already completed. Any change in these connections invalidates the calibration. Also, make sure that the wires are neatly dressed. This means that the slack in the wires should be pushed down in the conduit (without straining the wires). This protects the wires from damage when the cap of the conduit is screwed on. Also, if the wires are lying too high in the conduit, stray capacitance from the metal cap can alter the operating point of the electronics unit.
3. Using the plastic tuning wrench supplied with the electronics unit, turn the tuning capacitor to the fully counterclockwise position. Then slowly turn the tuning wrench clockwise until the green light illuminates. This is the operating point of the sensor.
4. Identify exactly the position of the operating point and then turn the tuning wrench clockwise exactly one-half additional turn (180 degrees). The green light should remain illuminated. Remove the tuning wrench. Carefully screw the cap on the conduit.

FIGURE 6B

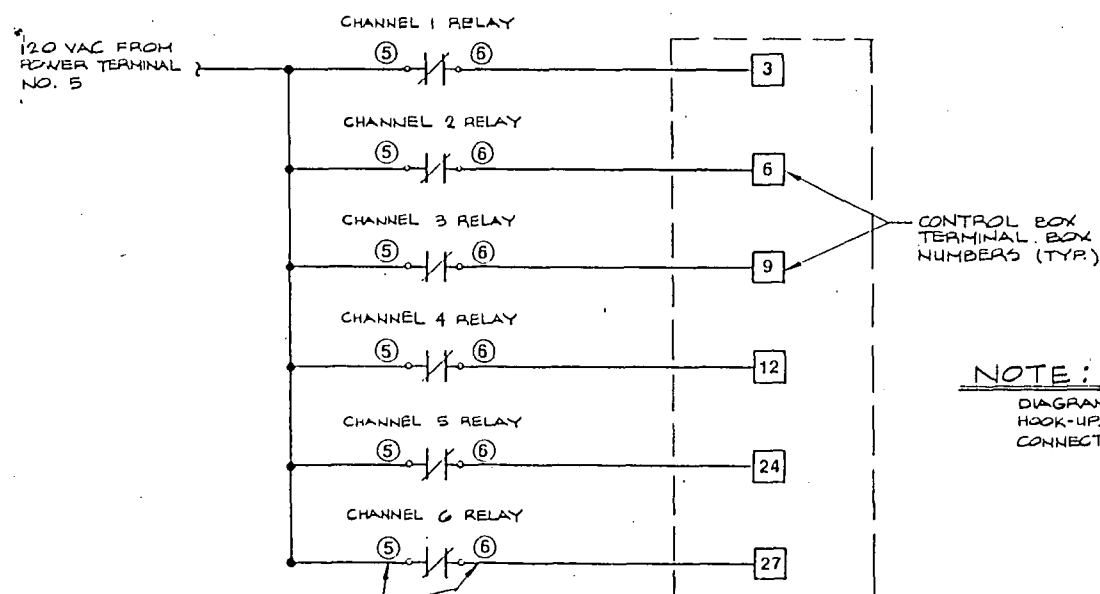
ADD WIRING DETAILS AND NOTES FOR CABLE TERMINATIONS	DS
ADD TEST AND PROOF THE DWG. ON VERT. & HOR. TANK INSTALLATION.	MA
ADD EXPLORATION PUMP SEAL OFF HOLE	SLD
CHANGE PROBE DEPTH, NOTE 15	SLB
Safety-Eleen Corp. 111 60 THREE ROAD & BURN LANE, ALPHARETTA, GA 30201	
HIGH LEVEL ALARM REMOTE TRANSMIT TO TANK INSTALLATION DETAILS	
NONE	
W-11-88	ADD CHART (P. 11-11-88)
ED	ADD WIRING 10' AT 11-11-88
ADD SEAL OFF	
FOR SERVICE CENTER BRANCH	D-14-2



NAMEPLATE #1 DETAIL



NAMEPLATE #2 DETAIL (TYP.)



NOTE:
DIAGRAM SHOWS 6 TANK
HOOK-UP. ONLY MAKE
CONNECTIONS FOR EXISTING TANKS.

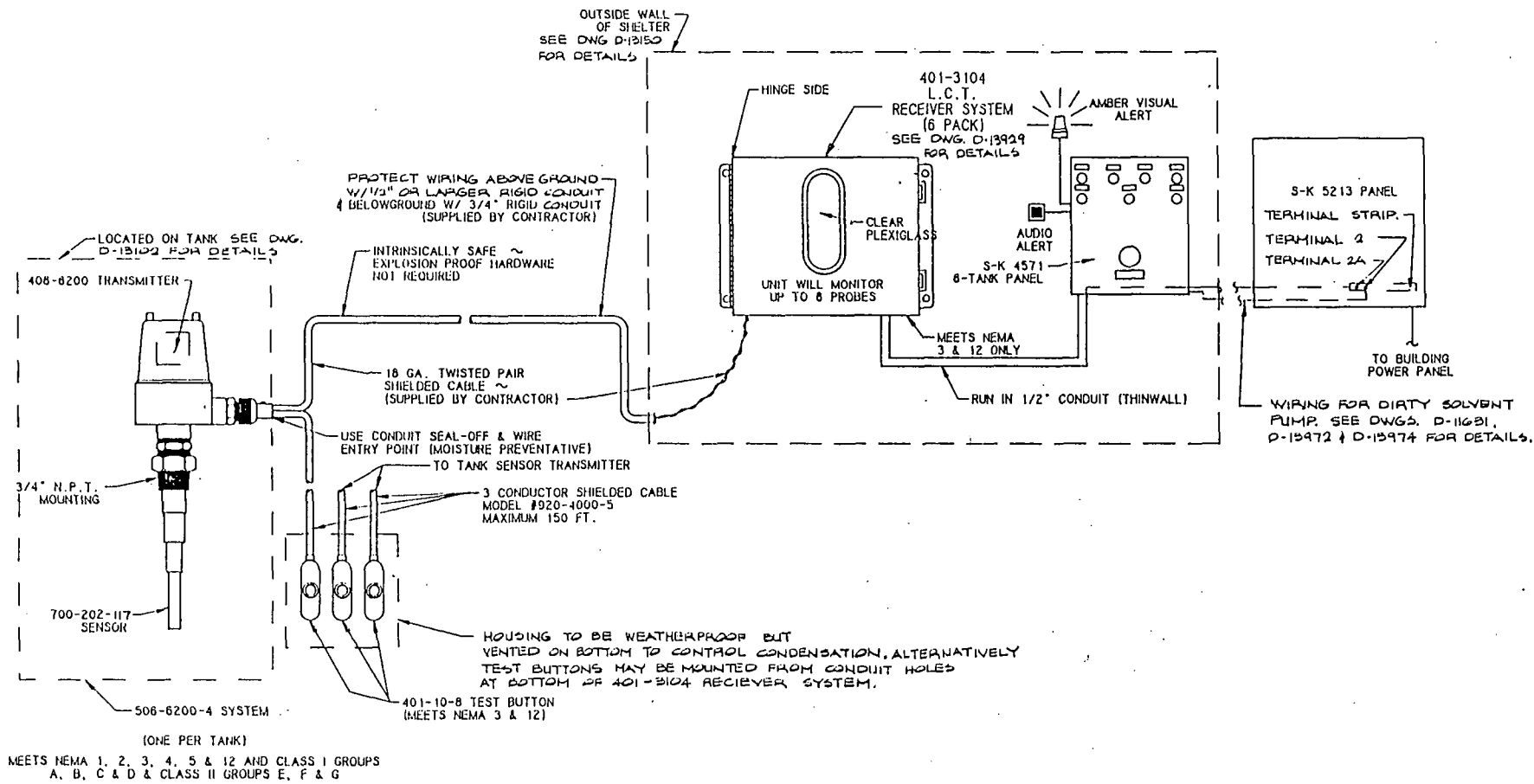
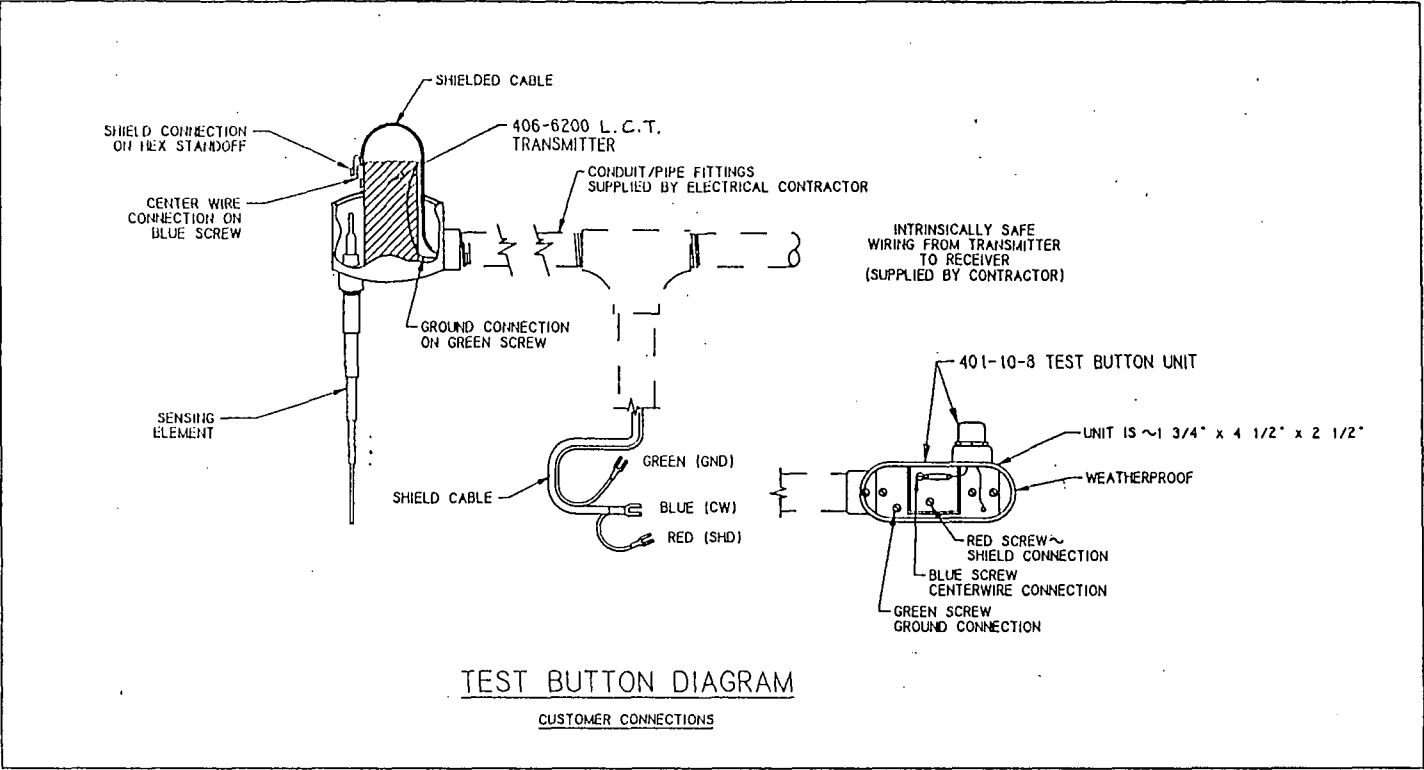
WIRING TO ALARM CONTROL BOX

EXISTING TANK PROBE LENGTH		
TANK DIAMETER	DISTANCE FROM TOP OF TANK TO 95% VOL. LEVEL	MINIMUM LENGTH OF PROBE INSIDE TANK
8' - 96"	9'	12"
10' - 120"	11'	14"
12' - 144"	14'	17"

FIGURE 6C

				TITLE L.C.T. HIGH LEVEL ALARM RECIEVER SYSTEM DETAILS			
				SAFETY-KLEEN CORP. 177 BIG TIMBER ROAD - ELGIN, ILLINOIS 60120 PHONE 708/867-8480			
SCALE NONE	DRAWN ALS	CHECKED	ENGINEERING APPR	OPERATION APPR	DATE 1-10-89		
NO	DESCRIPTION	BY	CHK	APPR	DATE	DRAWING NO. 013000	REV

THIS DRAWING CONTAINS INFORMATION PROPRIETARY TO SAFETY-KLEEN CORP. ANY REPRODUCTION, DISCLOSURE OR USE OF THIS DRAWING IS EXPRESSLY PROHIBITED EXCEPT BY SAFETY-KLEEN OR AS SAFETY-KLEEN MAY AGREE IN WRITING.



WIRING DIAGRAM OVERVIEW
NO SCALE

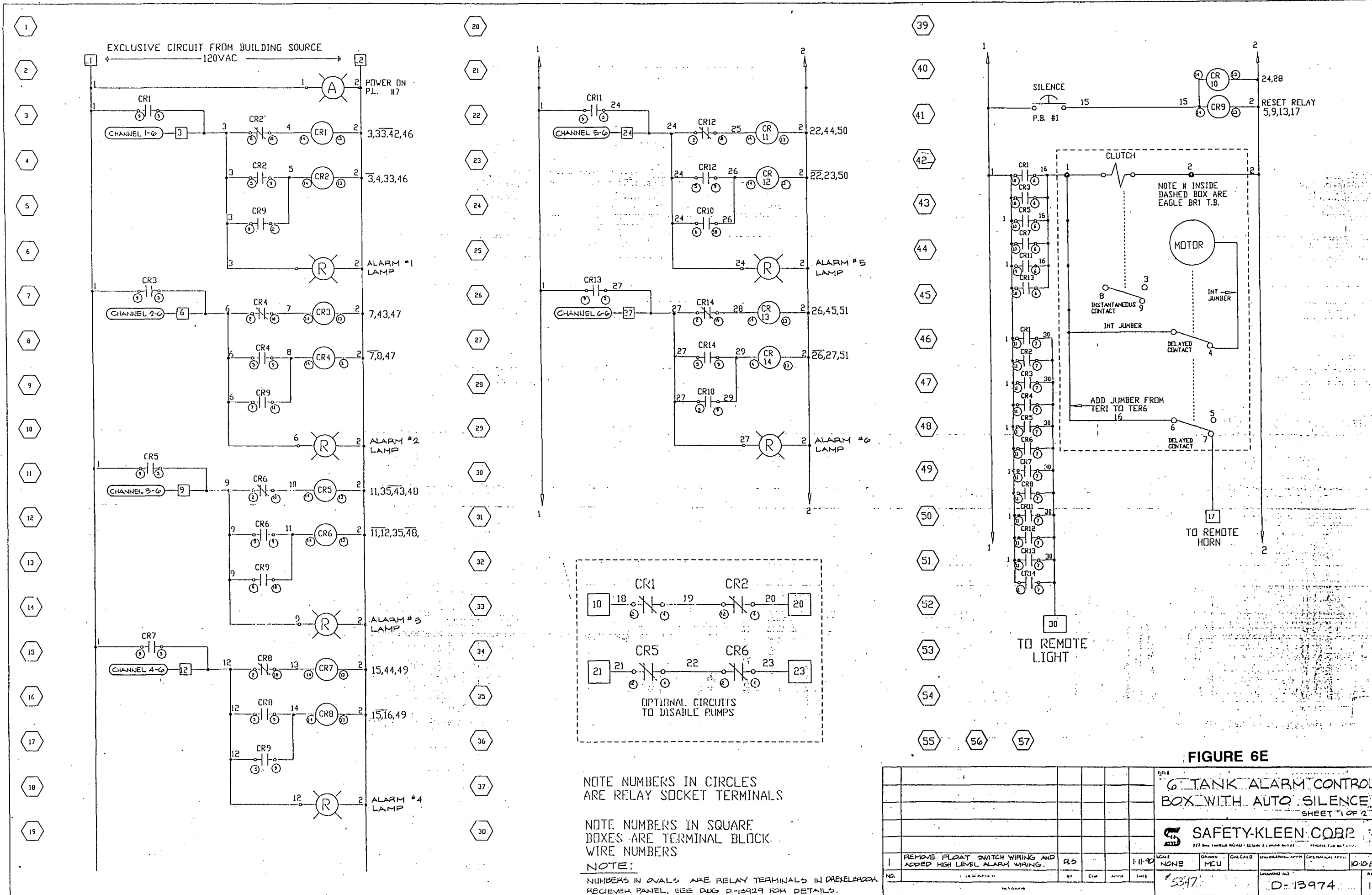
GENERAL NOTES:

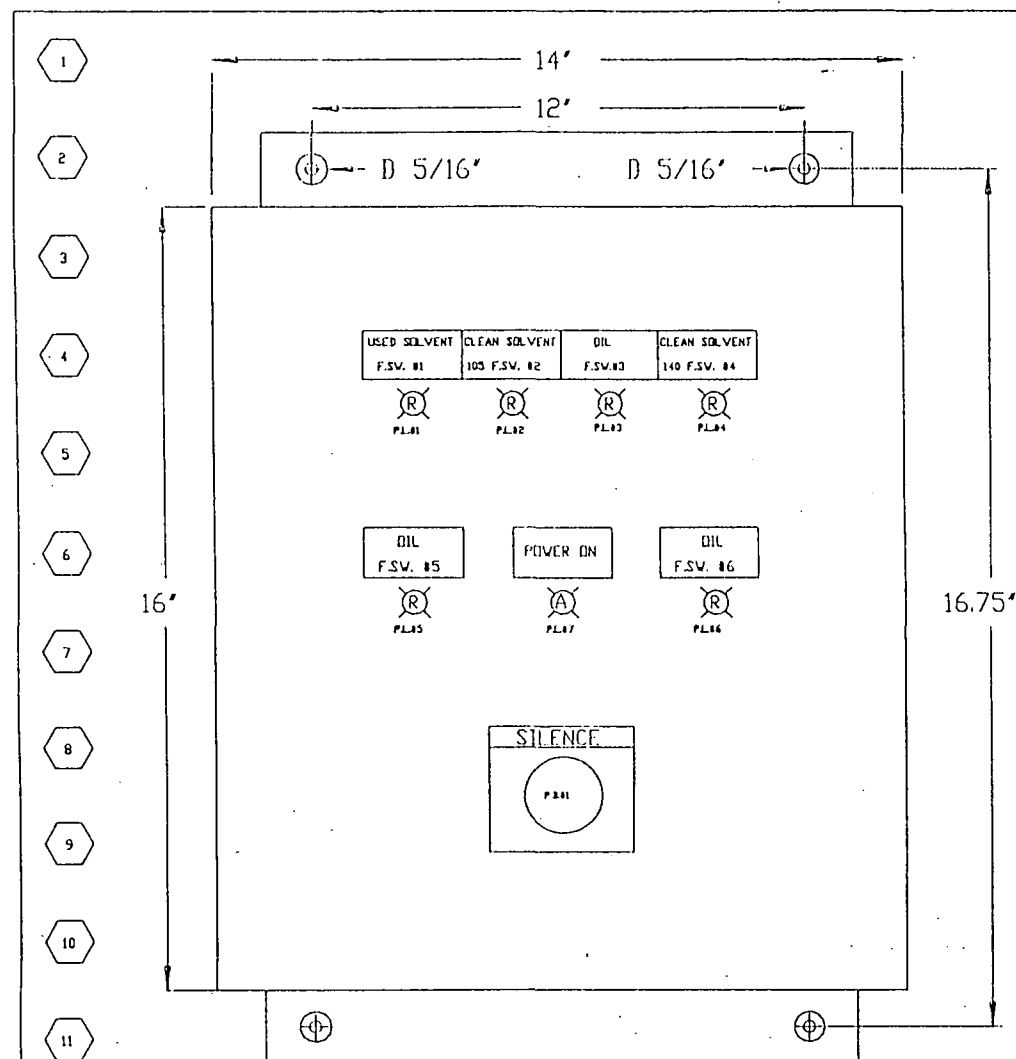
1. DRAWING IS INTENDED TO SHOW A TYPICAL INSTALLATION ONLY. SEE ACTUAL SITE PLAN.
2. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ACTUAL FIELD CONDITIONS.
3. ALL ITEMS SHOWN WITH A SAFETY-KLEEN PART NO. THESE ITEMS WILL BE SUPPLIED BY S-K.
4. IF ANY FIELD MODIFICATIONS ARE REQUIRED, SAFETY-KLEEN BRANCH CONSTRUCTION GROUP IS TO BE NOTIFIED BEFORE PROCEEDING.
5. E.C. TO SUPPLY & INSTALL ALL RIGID CONDUIT, EMT & ANY NECESSARY LABOR & MATERIALS TO COMPLETE PROJECT.

FIGURE 6D

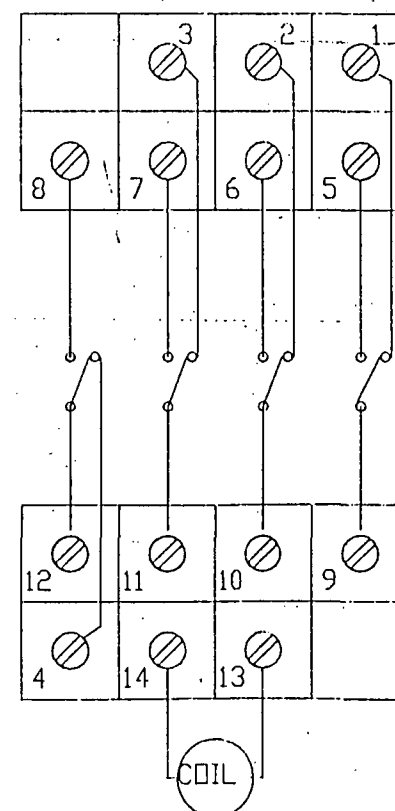
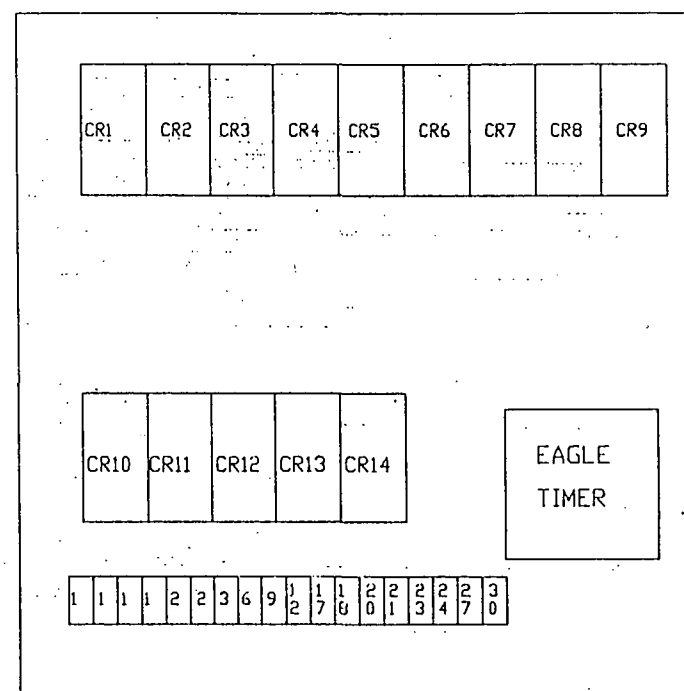
REVISIONS				
NO.	DESCRIPTION	BY	CHKD	DATE
E	ADDED VARIOUS NOTATIONS	DS		1/10/8
D	REV'D. & REDRAWN ON COMP'TR.	NWD		6/18/8
C	ADDED TEST BUTTON UNIT	MA		1/23/8
B	ADDED SEALOFF FITTING	RD		10/17/8
A	REVISED & REDRAWN	RD		5/31/8

TITLE		L.C.T. HIGH LEVEL ALARM ELECTRICAL DIAGRAM		
SAFETY-KLEEN CORP.		777 BIG TOBAC ROAD, ELGIN, ILLINOIS 60120 PHONE 312/897-8440		
PROJ. ENG. APPR.	OPERATIONS APPR.	SCALE	DRAWN	DATE
		NONE	RD	5/12/8





SUB PLATE COMPONENT LOCATION



OMRON RELAY MY4AC120 TERMINAL LAYOUT

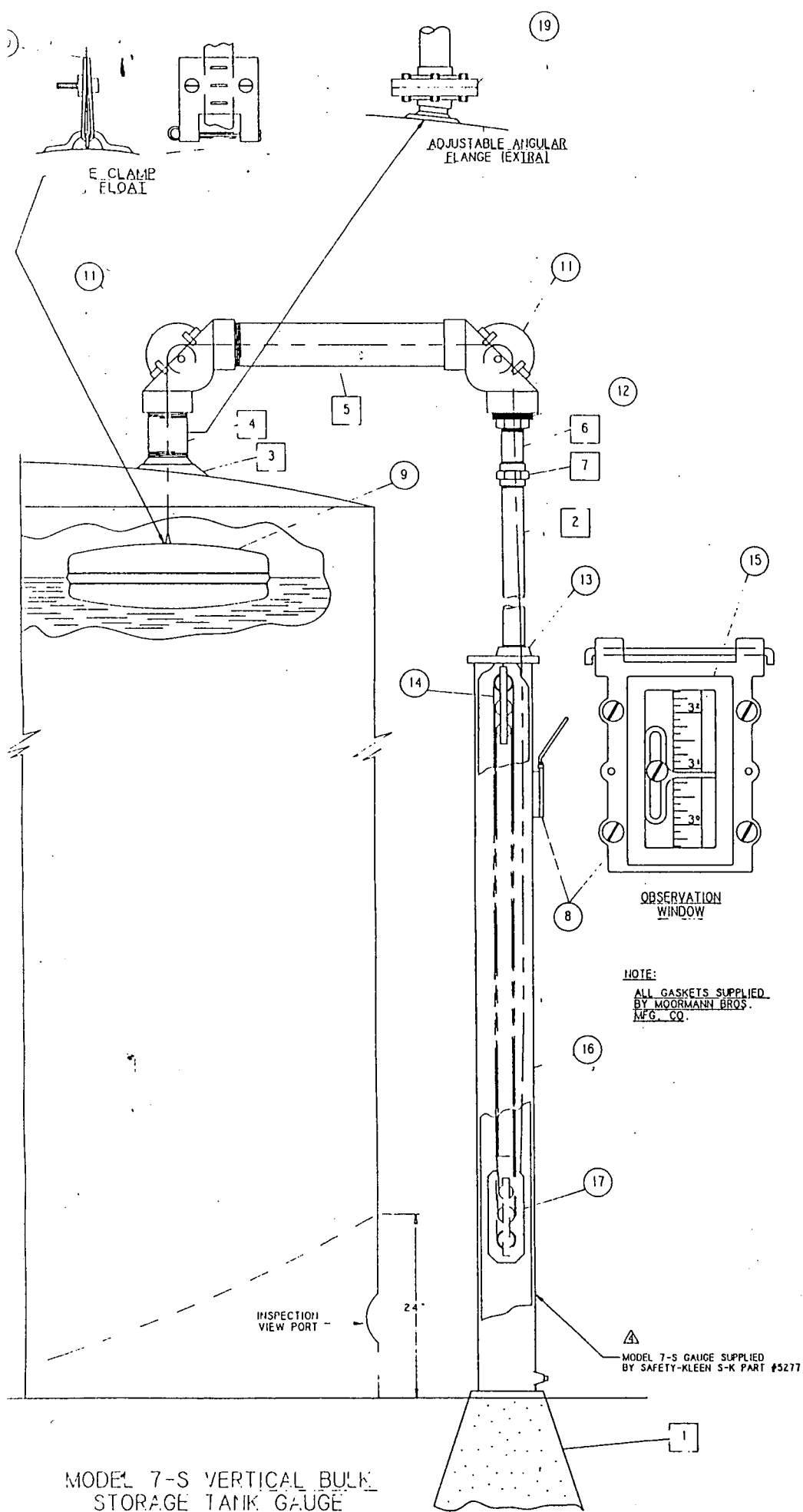
PARTS LIST

QTY

1	A1614CH	HOFFMAN ENCLOSER
1	A16P14	HOFFMAN SUB PLATE
1	800T-D6D1	A-B RED PUSHBUTTON
1	800T-X700	A-B NAME PLATE
1	BR1-7-A6-00	EAGLE TIMER 5MIN
14	MY4AC120	OMRON RELAY
14	PYF14A	OMRON RELAY BASE
1	PFP-50N	MOUNTING TRACK
7	30099	SYLVANIA LIGHT BASE
6	30120	SYLVANIA RED LENS
1	30126	SYLVANIA AMBER LENS
7	120 PSB	LIGHT BULBS
	1492-H1	TERMINAL BLOCKS A-B
	E-1x2WH6	PANDUIT WIRE WAY
	C-1WH6	PANDUIT COVER

FIGURE 6F

				TITLE			
				6 TANK ALARM CONTROL			
				BOX WITH AUTO SILENCE			
				SHEET 2 OF 2			
				SAFETY-KLEEN CORP.			
				777 BIL TUNBER ROAD, ALBANY, N.Y. 12206			
1	CHANGED PART NO. FOR EAGLE	DS		SCALE	DRAWN	CHECKED	UNDERLINE APPR
	5 MIN. TIMER			NONE	MCU		
NO.	1	BY	CIM	APPR	DATE	10-10-89	
						5347	
						D-13975	



INSTALLATION INSTRUCTIONS - MODEL 7-S

1. LOCATE GAUGE POSITION ON GROUND - MARK TOP EDGE OF TANK DIRECTLY ABOVE GROUND LOCATION.
2. MEASURE, CUT AND THREAD 2" PIPE (AS MARKED ON PRINT).
3. USE PIPE DOPE ON ALL CONNECTIONS.
4. ASSEMBLE BOTH A-30 ELBOWS AND 2" PIPE AS SHOWN ON PRINT.
5. SCREW (1) ELBOW A-30 ONTO 2" PIPE WITH REDUCING BUSHING, CLOSE HIPPLE AND UNION AS SHOWN ON PRINT; OTHER A-30 ELBOW ONTO 2" HIPPLE IN TANK THEN SCREW OTHER END OF 2" PIPE INTO TANK ELBOW. MAKE STRAIGHT WITH TANK MARKING.
6. LEVEL 2" PIPE, USE TEMPORARY WOOD BRACE OR ALIGNMENT FLANGE, IF NECESSARY.
7. SET GAUGE HOUSING WITH ECCENTRIC CAP ASSEMBLED ON GROUND DIRECTLY BELOW OVERHANGING ELBOW.
8. MEASURE FOR 1" PIPE (REDUCING BUSHING IN ELBOW TO ECCENTRIC CAP V-71 ON GAUGE HOUSING) ALLOW FOR THREADS, CUT AND THREAD 1" PIPE.
9. SCREW 1" PIPE INTO ELBOW, THEN REMOVE V-71 ECCENTRIC CAP FROM HOUSING AND PUT ON 1" PIPE. CAUTION - BE SURE ECCENTRIC CAP IS STRAIGHT AND 1" OUTLET IS FARTHEST AWAY FROM TANK.
10. FASTEN PULLEY RACK WITH LARGE PULLEY UP TO ECCENTRIC CAP USING STAINLESS STEEL PINS.
11. ASSEMBLE OTHER PULLEY RACK IN COUNTERWEIGHTS WITH LARGE PULLEY DOWN.
12. PLACE COUNTERWEIGHT ON GROUND DIRECTLY BENEATH ECCENTRIC CAP PULLEY RACK.
13. REMOVE A-33 CAPS FROM BOTH ELBOWS.
14. THREAD TAPE FROM TANK ELBOW WITH NUMBERS UP AND CLIP ENDS FIRST THROUGH 2" PIPE AND OVER ELBOW PULLEYS DOWN THROUGH 1" PIPE AND OUT ECCENTRIC CAP, STRAIGHT DOWN AND AROUND BOTTOM PULLEY IN C/W AND UP AND OVER TOP PULLEY IN ECCENTRIC CAP, DOWN TO MEDIUM PULLEY UP AND OVER MEDIUM PULLEY, DOWN AND AROUND SMALL PULLEY ON C/W AND UP AND AROUND SMALL PULLEY ON ECCENTRIC CAP, DOWN AND FASTEN TO LUG ON COUNTERWEIGHT PULLEY RACK - USE STAINLESS STEEL PIN. CAUTION - DO NOT THREAD TAPE OVER OR UNDER CROSS BARS IN PULLEY RACK. USE CAUTION - DO NOT KINK OR BEND TAPE.
15. FASTEN TAPE TO FLOAT WITH TAPE CLAMP (AS PER PRINT) CAUTION - DO NOT FASTEN TAPE CLAMP TOO TIGHT AS THIS MAY DAMAGE TAPE.
16. PLACE ECCENTRIC CAP GASKET ON HOUSING TOP AND INSERT COUNTERWEIGHT ASSEMBLY INTO HOUSING. CAUTION - DO NOT ALLOW C/W TO DROP OR JERK AS THIS MAY CAUSE DAMAGE TO BEARINGS, ALSO BE SURE THE TAPE IS IN GROOVE OF PULLEYS AND NOT ON THE EDGE.
17. FASTEN HOUSING TO ECCENTRIC CAP WITH OBSERVATION WINDOW DIRECTLY BELOW 1" PIPE.
18. PLACE OUTSIDE STRAND OF TAPE OVER TAPE GUIDE IN OBSERVATION WINDOW. CAUTION - DO NOT BEND OR KINK TAPE, AND PUT ONLY ONE(1) STRAND OF TAPE OVER THE TAPE GUIDE.
19. FIX BASE FOR HOUSING EITHER, CONCRETE, WOOD POST, OR STEEL PLATE WELDED TO TANK. - CAUTION - DO NOT WELD GAUGE HOUSING TO TANK.
20. PERFORM CALIBRATION AS DESCRIBED IN "CALIBRATION DETAILS - EMPTY TANK" (THIS DRAWING). IN PERFORMING THIS CALIBRATION, 1/2", 1/4" OR EVEN 1/8" IS NOT CLOSE ENOUGH, BE PARTICULAR, SET THE GAUGE AS CLOSE AS POSSIBLE TO THE CORRECT READING (1 3/8" FOR EMPTY TANK, TRUE FLUID LEVEL FOR NON EMPTY TANK).
21. CAUTION - LET FLOAT DOWN IN TANK EASILY. DO NOT LET IT DROP.
22. ASSEMBLE OBSERVATION FRAME AND LID A-34 & 38 PLACE ON HOUSING, TIGHTEN FOR VAPOR-PROOFING.
23. IN MOST CLIMATES, CONDENSATION FORMS INSIDE TANK AND GAUGE. A DRAIN PLUG HAS BEEN PROVIDED FOR DRAINING AT THE BOTTOM OF HOUSING. IN MOST CLIMATES THIS IS NECESSARY 2 TIMES A YEAR (SPRING & FALL). HOWEVER, IN EXTREME CASES DRAINING IS REQUIRED MORE OFTEN.

CALIBRATION DETAILS - EMPTY TANK

1. BEFORE CALIBRATION, COMPLETE INSTALLATION THROUGH STEP 19 OF INSTALLATION INSTRUCTIONS (THIS DRAWING).
2. IN ALL SUCCEEDING STEPS, BE CAREFUL NOT TO TWIST OR KINK THE TAPE.
3. THROUGH OPEN MANWAY AT THE TOP OF THE TANK, LOWER FLOAT SLOWLY AND LET IT COME TO REST GENTLY AT THE BOTTOM OF THE TANK, DIRECTLY BENEATH THE TANK ROOF FLANGE. BECAUSE THE TANK BOTTOM IS CONCAVE, THE FLOAT MAY TEND TO SIDESLIP TO THE CENTER OF THE TANK BOTTOM, THUS INTRODUCING ERROR INTO THE CALCULATION. GENTLY LOWERING THE FLOAT MINIMIZES THIS SLIPPAGE AND THE RESULTING ERROR.
4. DETERMINE THE REQUIRED TAPE ADJUSTMENT AS FOLLOWS: WITH THE FLOAT AT THE TANK BOTTOM DIRECTLY BENEATH THE ROOF FLANGE, RECORD THE TAPE READING AT THE OBSERVATION WINDOW. AN EMPTY TANK SHOULD READ 1 3/8" (THE FLOAT DRAFT). THE REQUIRED TAPE ADJUSTMENT CAN BE COMPUTED AS THE ACTUAL READING MINUS 1 3/8".
5. MARK THE TAPE AT THE POSITION AT WHICH IT IS FASTENED TO THE FLOAT. UNCLAMP THE TAPE FROM THE FLOAT, MEASURE OFF THE REQUIRED ADJUSTMENT USING A TAPE MEASURE AND MARK THE NEW POSITION. CUT THE TAPE TO SIZE, LEAVING ABOUT 2" EXCESS SLACK. THIS SLACK IS NECESSARY BECAUSE CUTTING OFF TOO MUCH TAPE WILL RENDER THE TAPE UNUSABLE. REFASTEN THE TAPE TO THE FLOAT AT THE NEWLY MARKED POSITION, DO NOT FASTEN THE TAPE CLAMP TOO TIGHTLY, AS THIS MAY DAMAGE THE TAPE.
6. REPEAT STEPS 3 & 4 TO CHECK THE CALIBRATION. IF THE ERROR IS LESS THAN 1", THE REMAINING ADJUSTMENT MAY BE MADE USING THE FINGER IN THE OBSERVATION WINDOW. FOR MAJOR ADJUSTMENTS (OVER 1"), REPEAT STEP 5.
7. WHEN CALIBRATION IS COMPLETE, CUT THE EXCESS TAPE AT FLOAT, LEAVING 6" FOR MINOR ADJUSTMENTS. LOWER THE FLOAT GENTLY TO THE TANK BOTTOM.

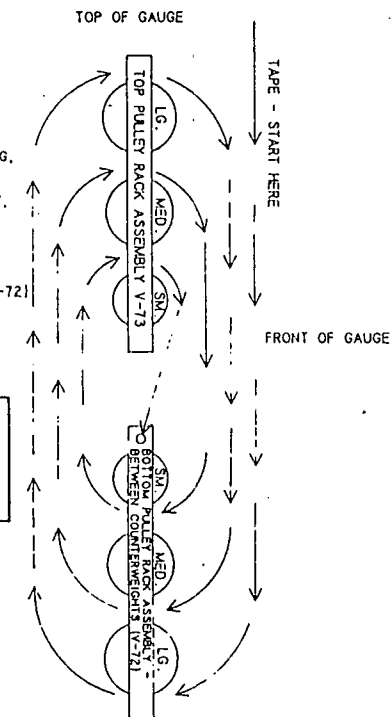
CALIBRATION DETAILS - NON-EMPTY TANK

1. DETERMINE THE REQUIRED TAPE ADJUSTMENT AS FOLLOWS:
 - A) USE A MEASURING STICK OR WEIGHTED LINE TO MEASURE THE TRUE FLUID LEVEL IN THE TANK. BECAUSE THE CONCAVE BOTTOM OF THE TANK RESULTS IN VARYING DEPTHS, THIS MEASUREMENT SHOULD BE PERFORMED AS CLOSE AS POSSIBLE TO THE ACTUAL POSITION OF THE FLOAT IN THE TANK.
 - B) RECORD THE TAPE READING AT THE OBSERVATION WINDOW.
 - C) THE REQUIRED TAPE ADJUSTMENT CAN BE COMPUTED AS THE TAPE READING MINUS THE TRUE FLUID LEVEL.
2. TO GAIN ACCESS TO THE FLOAT AND TAPE IN THE TANK, OPEN THE MANWAY AT THE TOP OF THE TANK. ALSO REMOVE THE A-33 CAP FROM A-30 ELBOW ASSEMBLY. IN ALL SUCCEEDING STEPS, BE CAREFUL NOT TO TWIST OR KINK THE TAPE.
3. GRASPING THE TAPE THROUGH THE OPEN MANWAY, CAREFULLY RAISE THE FLOAT OUT OF THE TANK. MARK THE TAPE AT THE POSITION AT WHICH IT IS FASTENED TO THE FLOAT. UNCLAMP THE TAPE FROM THE FLOAT, MEASURE OFF THE REQUIRED ADJUSTMENT USING A TAPE MEASURE AND MARK THE NEW POSITION. CUT THE TAPE TO SIZE, LEAVING ABOUT 2" EXCESS SLACK. THIS SLACK IS NECESSARY BECAUSE CUTTING OFF TOO MUCH TAPE WILL RENDER THE TAPE UNUSABLE. REFASTEN THE TAPE TO THE FLOAT AT THE NEWLY MARKED POSITION, DO NOT FASTEN THE TAPE CLAMP TOO TIGHTLY, AS THIS MAY DAMAGE THE TAPE. CAREFULLY LOWER THE FLOAT INTO THE TANK.
4. REPEAT STEP 1 TO CHECK THE CALIBRATION. IF THE ERROR IS LESS THAN 1" THE REMAINING ADJUSTMENT MAY BE MADE USING THE FINGER IN THE OBSERVATION WINDOW. FOR MAJOR ADJUSTMENTS (OVER 1"), REPEAT STEP 3.
5. WHEN CALIBRATION IS COMPLETE, CUT THE EXCESS TAPE AT THE FLOAT, LEAVING 6" FOR MINOR ADJUSTMENTS. LOWER THE FLOAT GENTLY INTO THE TANK. REPLACE THE A-33 CAP ON THE A-30 ELBOW ASSEMBLY. CLOSE THE MANWAY.

START TAPE, CLIP END FIRST, WITH NUMBERS ON TAPE FACING TOWARD FRONT OF GAUGE HOUSING, AROUND LARGE BOTTOM PULLEY, UP TO LARGE TOP PULLEY, DOWN TO MEDIUM BOTTOM PULLEY, UP TO MEDIUM TOP PULLEY, DOWN TO SMALL BOTTOM PULLEY, UP TO SMALL TOP PULLEY, AND THEN SECURE CLIP END OF TAPE WITH A COTTER PIN TO THE TOP OF THE BOTTOM PULLEY RACK (V-72) ASSEMBLY.

SEE NOTE 14 ABOVE.

NOTE:
FOR GENERAL INFORMATION, THERE IS
5'-8" OF STARTER TAPE
43'-0" NUMBERED TAPE
42'-2" LEADER TAPE
91'-0" APPROX. OVERALL



MATERIAL LIST MODEL 7-S

FOR ALL VERTICAL TANKS UP TO & INCLUDING 35'

☐ MATERIAL SUPPLIED BY CONTRACTOR

1. GAUGE HOUSING BASE SUPPORT.
2. 1" GALVANIZED PIPE (CUT TO LENGTH).
3. TANK ROOF FLANGE.
4. 2" TANK OPENING PIPE.
5. 2" GALVANIZED PIPE (CUT TO LENGTH).
6. 1" GALVANIZED NIPPLE (ANY LENGTH).
7. 1" GALVANIZED UNION.

☐ MATERIAL SUPPLIED BY MOORMANN BROS. (SAFETY-KLEEN)

PART NAME	PART NO.	QUANTITY PER UNIT
8. OBSERVATION WINDOW ASSEMBLY.	A-34-A-38	1
9. FLOAT	V-75	1
10. STAINLESS STEEL TAPE CLAMP & SCREWS	V-93	1
11. ELBOW ASSEMBLY COMPLETE	A-30, A-33	2
12. 2" TO 1" REDUCING BUSHING		1
13. ECCENTRIC CAP COMPLETE WITH NUTS & BOLTS	V-71	1
14. PULLEY RACK ASSEMBLY	V-73	2
15. LUFKIN STAINLESS STEEL HIGH VISIBILITY TAPE	V-49	1
16. RUST-PROOFED STEEL GAUGE HOUSING	V-77	1
17. COUNTERWEIGHT	V-72	2
18. CONDENSATION DRAIN PLUG		1
FRAME & LID ASSEMBLY FOR OBSERVATION WINDOW	A-34, A-38	1
GASKETS - SET FOR OBSERVATION WINDOW	V-81, V-82	1
GASKET - ELBOW CAP	V-83	2
GASKET - V-71 ECCENTRIC CAP	V-84	1
GLASS - WINDOW	V-86	1
STAINLESS STEEL INDICATOR FINGER FOR OBSERVATION WINDOW	V-94	1
WIRE PIN - STAINLESS STEEL	V-96	5

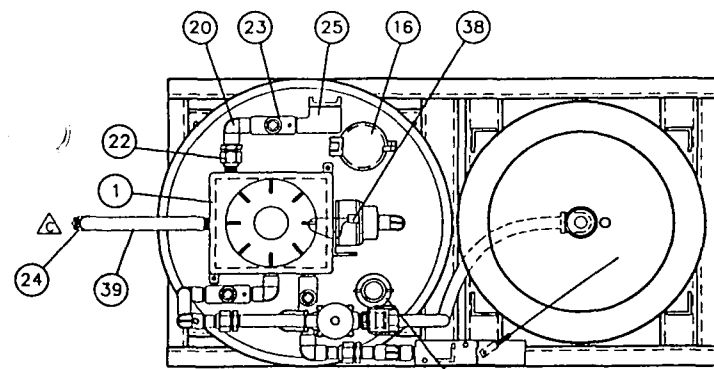
GENERAL NOTES

1. TANK GAUGE ASSEMBLY SUPPLIED BY SAFETY-KLEEN CORP.
2. SEE INDIVIDUAL SERVICE CENTER SITE PLANS FOR LOCATION OF THE INSTALLATION.
3. GAUGE MUST BE ORDERED WITH THE PERFORATED TAPE FOR FUTURE REMOTE READ-OUT SYSTEM.
4. ALL EXPOSED NON-PROTECTED STEEL IS TO BE PAINTED PER SAFETY-KLEEN SPECIFICATIONS.
5. IF REQUIRED, ADDITIONAL VERBAL INSTALLATION INSTRUCTIONS CAN BE OBTAINED BY CALLING MOORMANN BROS. MFG. CO., RUSHVILLE, INDIANA - (317) 932-3590 - ASK FOR: BOB GAINES OR JIM RAVENCRAFT

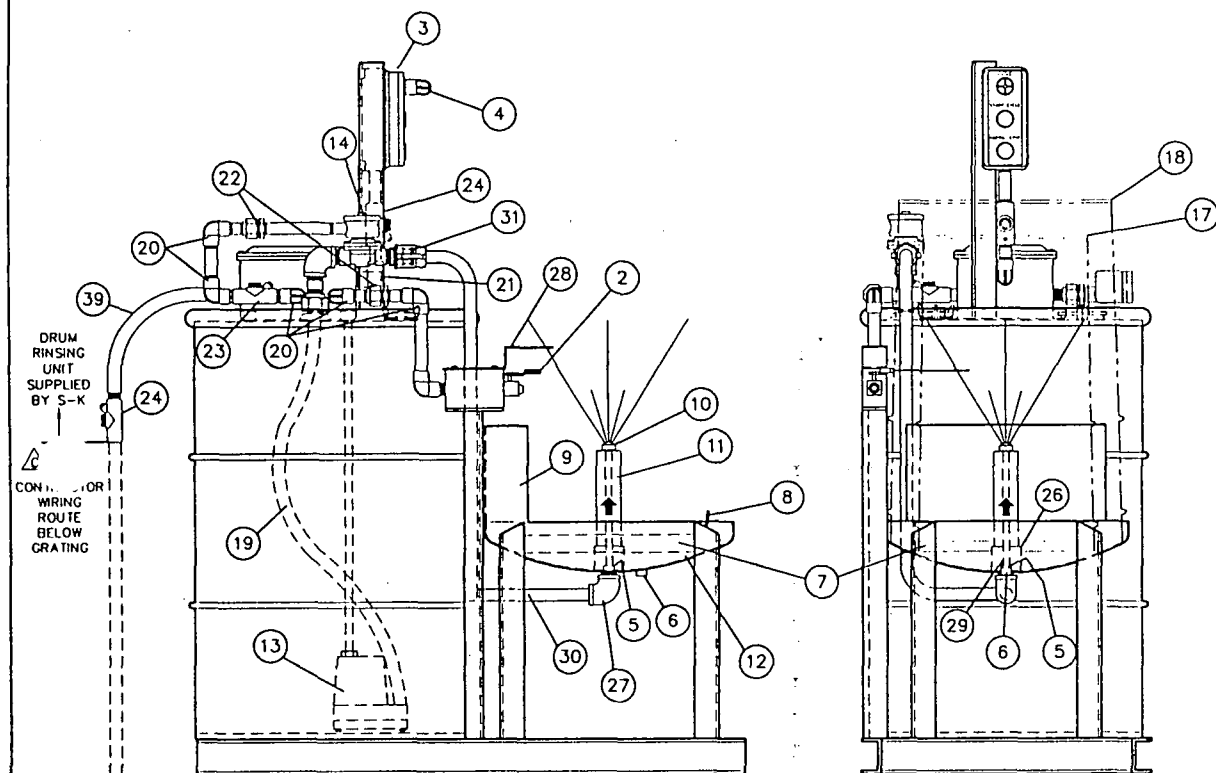
FIGURE 7

REV.	REVISION	BY	CHKD	APPR	DATE
1	REV'D # WAS A 10243	RD			2/8/94
2	REV'D NOTES 10-23 AND ADDITIONAL CALIBRATION INFORMATION	RD			1/12/95
3	REV'D D. HI-LEV. ALARM INFO.	RD			7/5/95
4	ADDED SAFETY-KLEEN PART #5	RD			2/15/94
5	ADDED ADDITIONAL HIGH LEVEL ALARM INFO	RD			10/6/95
6	ADDED TAPE WINDING INFO.	WLJ			6/21/96
7	ADDED NOTE 5	WLJ			2/13/98
DESCRIPTION					
REVISIONS					
TITLE					
MOORMANN BROS. TANK GAUGE INSTALLATION (DISHED BOTTOM TANKS ONLY)					
SAFETY-KLEEN CORP.					
777 BIG TRADER ROAD, ELMO, ILLINOIS 60120 PHONE 312/487-8460					
PROV.	ENG.	APPR.	OPERATIONS	APPR.	SCALE
					NONE
DESIGNED	DATE	SCALE	DATE	SCALE	DATE
10/7/93					
FOR SERVICE					

ENLARGED DETAIL SHOWING HOW TAPE IS WOUND ON PULLEY RACK ASSEMBLIES OF MOORMANN MODEL #7-S. CUT OFF EXCESS TAPE AT FLOAT.

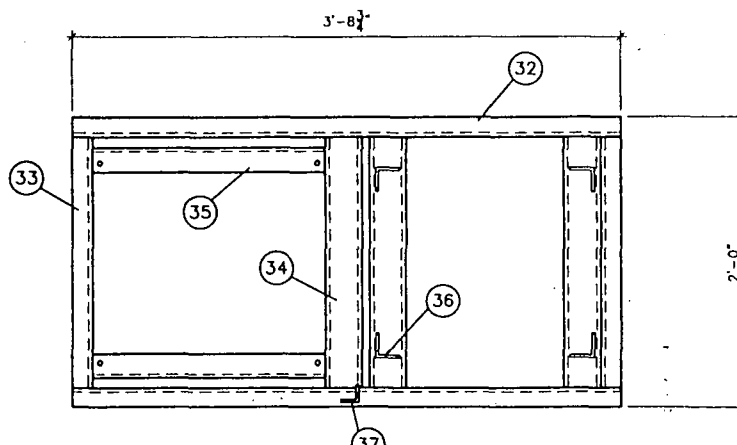


DRUM RINSER PLAN - DETAIL 1
SCALE: 1 1/2"=1'-0"



DRUM RINSER SIDE ELEVATION - DETAIL 2
SCALE: 1 1/2"=1'-0"

DRUM RINSER FRONT ELEVATION - DETAIL 3
SCALE: 1 1/2"=1'-0"



SKID PLAN - DETAIL 4
SCALE: 1 1/2"=1'-0"

SEQUENCE OF OPERATION

1. POSITION DRUM IN DRAIN PAN MAKING SURE LIMIT SWITCH LEVER IS ENGAGED.
2. DEPRESS START CYCLE PUSHBUTTON AND RELEASE. PUMP MOTOR WILL RUN BUT SOLENOID VALVE REMAINS CLOSED FOR SET TIME OF 10 (1-10 SEC.). THE RED CYCLE LIGHT WILL BE ON.
3. AFTER TR1 (1-10 SEC.) HAS TIMED OUT, THE SOLENOID VALVE OPENS AND REMAINS OPEN UNTIL TR2 (1-10 SEC.) HAS TIMED OUT. DURING THE TIME SET ON TR2 SOLVENT IS BEING SPRAYED INTO THE DRUM.
4. AFTER TR2 HAS TIMED OUT, A DRAIN CYCLE TR3 (1-180 SEC.) BEGINS. DURING THIS TIME THE PUMP CANNOT BE RESTARTED. THE RED CYCLE LIGHT WILL REMAIN ON UNTIL TR3 HAS TIMED OUT.
5. THE PUMP MOTOR WILL STOP IF EITHER THE EMERGENCY STOP PUSHBUTTON IS DEPRESSED OR IF THE DRUM IS MOVED, DISENGAGING THE LIMIT SWITCH.

ELECTRICAL NOTES

1. ALL CONDUIT, J-BOXES AND FITTINGS TO MEET CLASS 1 DIV. I, GROUP B, C & D REQUIREMENTS.
2. USE #14 THHN MTW ONLY.
3. USE WIRE LABELS ON BOTH ENDS OF ALL WIRES.
4. RUN SAFETY GROUND WIRES IN GREEN #14.
5. CONTRACTOR SCOPE OF WORK IS TO ROUTE 110V POWER SUPPLY TO UNIT TO UNIT AND CONNECT TO TERMINAL STRIP AND TO INCLUDE GROUND CONNECTION.

EQUIPMENT SCHEDULE FOR DETAILS 1, 2, 3 & 4

ITEM	QTY.	DESCRIPTION	P/N	MFR.
1	1	ELECTRICAL ENCLOSURE,	GUB06109-00-AA-B0-AA-MT	CROUSE-HINDS
2	1	LIMIT SWITCH, NEMA 7	802X-A7	ALLEN-BRADLEY
3	1	START/STOP STATION, "EMERG. STOP" & "START CYCLE", NEMA 7	800H2HAP7	ALLEN-BRADLEY
4	1	PILOT LIGHT, NEMA 7, "CYCLE LIGHT"	800H-LP10R	ALLEN-BRADLEY
5	1	NOZZLE COUPLING, 1/2", STEEL	COMMON COMMODITY	-
6	1	DRAIN COUPLING, 3/4", FEMALE TANK FLG.	COMMON COMMODITY	-
7	1	16 GALLON DRUM POSITIONING RING	-	SEMLER IND.
8	1	30 GALLON DRUM LOCATING STOP	-	SEMLER IND.
9	1	DRUM BACK STOP	-	SEMLER IND.
10	1	SPRAY NOZZLE	1/4-G-SS-10	SPRAYING SYSTEMS
11	1	SPRAY NOZZLE GUARD PIPE, 2" X 8" NIP. IHD. ONE END	-	SEMLER IND.
12	1	DRIP PAN	-	-
13	1	COMS PUMP	SK PART # 3790	LITTLE GIANT
14	1	SOLENOID VALVE, 1/2"	EF8210G94	ASCO
15	1	VENT & FLAME ARRESTOR, 2"	522	PROTECTOSEAL
16	1	FILL CAP	179M-0200 AC	MORRISON
17	1	16 GALLON DRUM	SHOWN FOR CLARITY	-
18	1	30 GALLON DRUM	SHOWN FOR CLARITY	-
19	1	HOSE, WINGFOOT, 1" X 3', W/ MNPT X FCOP ENDS	-	HOSE PROS
20	7	1/2" XP ELBOW	EL19	CROUSE-HINDS
21	1	3/4" XP ELBOW	EL29	CROUSE-HINDS
22	3	1/2" XP UNION	UNF105	CROUSE-HINDS
23	3	SIAL OFF, 1/2" XP	EYS116	CROUSE-HINDS
24	2	SEAL OFF, 3/4" XP	EYS216	CROUSE-HINDS
25	1	CONDULET, 1/2", 90°	GUAL 14	CROUSE-HINDS
26	1	HALF COUPLING, 2", FEMALE	COMMON COMMODITY	-
27	1	ELBOW, 1/2", 90°, BLACK	COMMON COMMODITY	-
28	1	LIMIT SWITCH GUARD	-	SEMLER IND.
29	1	NIPPLE, 1/2" X 8", BLACK PIPE	-	SEMLER IND.
30	1	HOSE, WINGFOOT, 1/2" X 4', W/ MNPT X FCOP ENDS	-	HOSE PROS
31	1	COUPLER, MALE, 1/2", BRASS	633-F-0400	QIVACON
32	2	CHANNEL IRON, 3" X 4.1#	COMMON COMMODITY	SEMLER IND.
33	2	CHANNEL IRON, 3" X 4.1#	COMMON COMMODITY	SEMLER IND.
34	3	CHANNEL IRON, 3" X 4.1#	COMMON COMMODITY	SEMLER IND.
35	2	ANGLE IRON, 2" X 2" 1/4"	COMMON COMMODITY	SEMLER IND.
36	4	ANGLE IRON, 2" X 2" 1/4"	COMMON COMMODITY	SEMLER IND.
37	1	ANGLE IRON, 1 1/2" X 1 1/2" X 3/16"	COMMON COMMODITY	SEMLER IND.
38	1	CLIP, TAMPER RESISTANT, CRIMP TYPE W/ WRW	COMMON COMMODITY	SEMLER IND.
39	1	18' L. FLEXIBLE ELECTRIC CABLE (NEMA 9)	COMMON COMMODITY	SEMLER IND.

EQUIPMENT SCHEDULE FOR DETAIL 5

ITEM	QTY.	DESCRIPTION	PART NO.	MFR.
1	1	CLASS 1, GROUP B,C,D DEVICE ENCLOSURE	GUB06109-00-AA-B0-AA-MP	CROUSE-HINDS
2	1	NEMA 7/9 3-GANG PUSHBUTTON STATION	CCS 16	KILLARK
3	1	NEMA 7/9 START PUSHBUTTON	800H-AP1	ALLEN-BRADLEY
4	1	NEMA 7/9 STOP PUSHBUTTON	800H-BP6	ALLEN-BRADLEY
5	1	NEMA 7/9 120V. RED PILOT LIGHT	800H-LP10R	ALLEN-BRADLEY
6	1	NEMA 7/9 LIMIT SWITCH	802X-A7	ALLEN-BRADLEY
7	1	12" NYLON LIMIT SWITCH ROD LEVER	802T-W3C	ALLEN-BRADLEY
8	1	HYPALON PROTECTIVE GREEN P.B. BOOT	800H-NP5B	ALLEN-BRADLEY
9	1	HYPALON PROTECTIVE RED P.B. BOOT	800H-NP5A	ALLEN-BRADLEY
10	2	0-10 SEC. ON DELAY TDR 120V.	H3G-8C AC120	OMRON
11	2	TDR 8 PIN SOCKET	P2CF-08	OMRON
12	1	1.8-180 SEC. OFF DELAY TDR	TJK-180-461(120V.)	NATIONAL CONTROLS
13	1	TDR 11 PIN SOCKET	PP113A	OMRON
14	1	CLASS CC FUSE BLOCK	BC6031S	BUSSMAN
15	1	10 AMP. CLASS CC FUSE	KTK-R-10	BUSSMAN
16	2	WIRE TERMINAL BLOCK	524	BUCHANAN
17	1	WIRE TERMINAL BLOCK END PIECE	530	BUCHANAN
18	3	LEGEND PLATES	800H-W500	ALLEN-BRADLEY
19	1	DPDT 120 V. 10 AMP. RELAY	K10P-11A15-120	P & B
20	1	RELAY SOCKET BASE	-	P & B

REVISIONS

NO.	DESCRIPTION	BY	CHK	APPR	DATE
A	RELEASED TO BJ FOR REVIEW	MBH			011196
B	ADDED ITEMS 38 & 39 RELEASED TO BJ FOR REVIEW	MBH			030796
C	UPDATED ITEMS: 4, 10, 13, 17 & 18 ON EQUIP. SCHED. (1, 2, 3 & 4) UPDATED SEQ. OF OPER. (2, 3 & 4) UPDATED ELEC NOTES (1 & 5) BEND ITEMS 24 & 39 VERT & DOWN AND ADDED ARROWS & TEXT CHANGED. DWG & DETAIL (1, 2, 3, & 5) TITLES - REMOVED INITIALS IN CHKD/APPD/OPER. BOXES	MBH			032396

TITLE
DRUM RINSING (SPRITZER) SYSTEM
ASSY. DETAILS & ELECTRICAL SCHEMATIC

PROPRIETARY STATEMENT

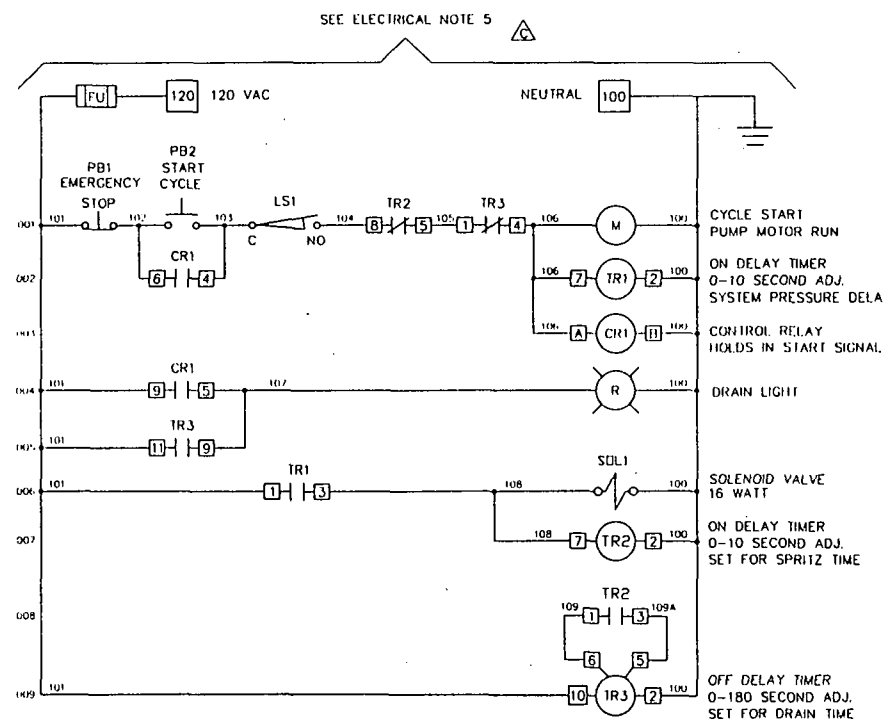
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Safety-Kleen Corp.
1000 NORTH RANDALL ROAD ELGIN, ILLINOIS 60123
PHONE (847)697-8460

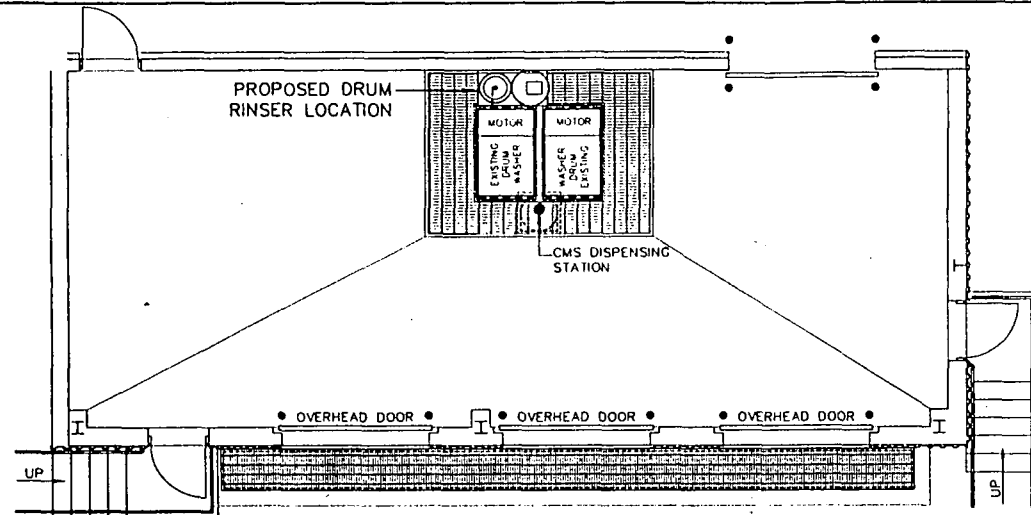
SCALE	BY	CHKD	APPROVED	OPERATIONS	DATE
1.5" = 1'-0"	MBH				030796
SERVICE CENTER STANDARDS			STD-DWG NUMBER		REV. NO.
FABRICATION			BSD-932		C

DRUM RINSER ELECTRICAL SCHEMATIC - DETAIL 5

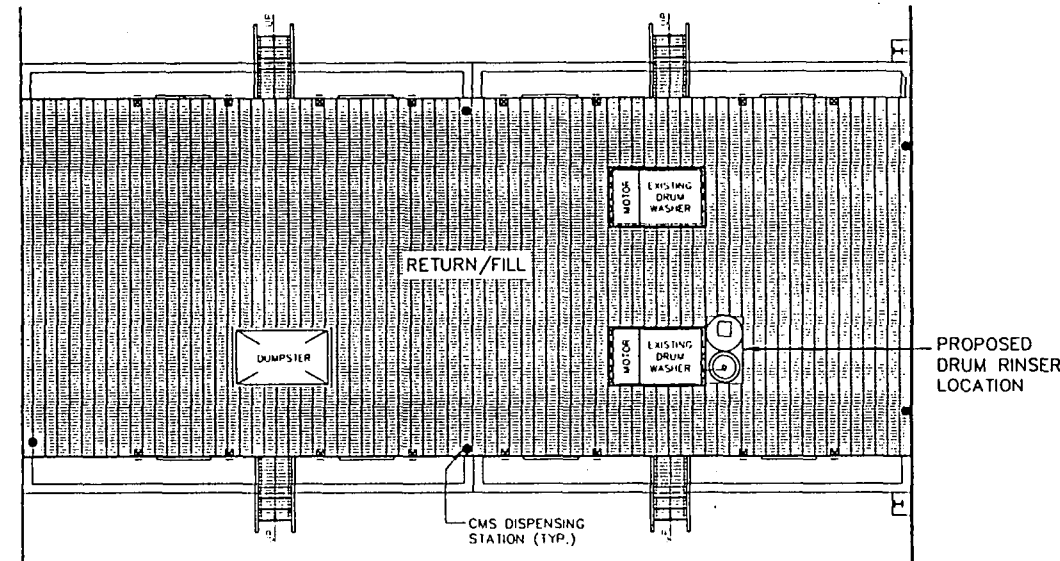
SCALE: 1 1/2"=1'-0"



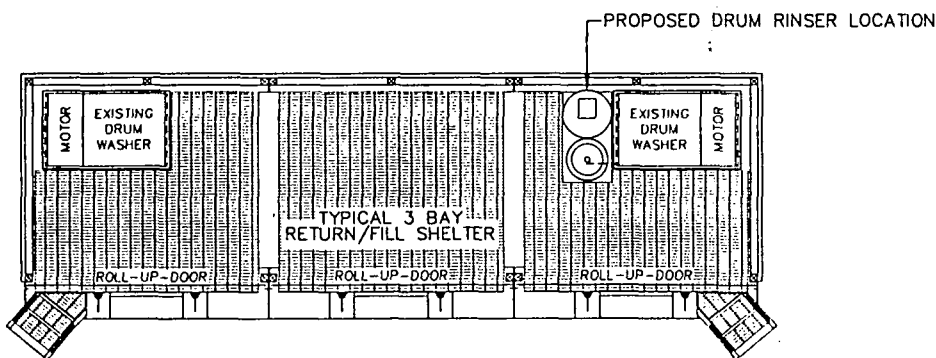
TYPICAL RETURN/FILL PLANS



RETURN/FILL BUILDING PLAN
SCALE: 3/16"=1'-0"

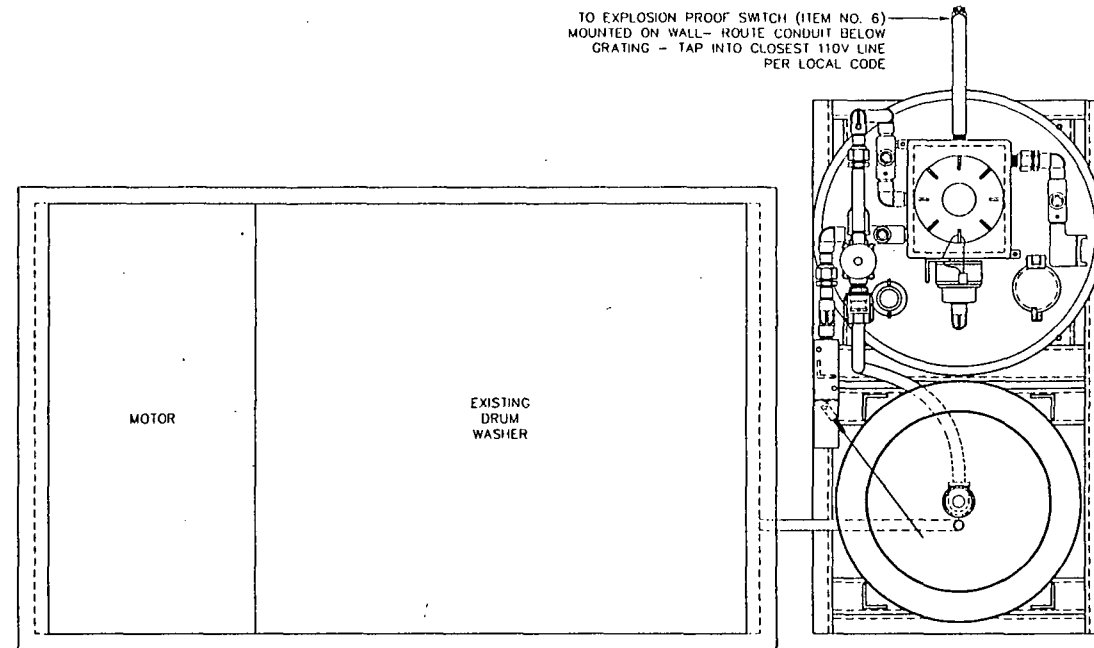


RETURN/FILL DOCK PLAN
SCALE: 3/16"=1'-0"

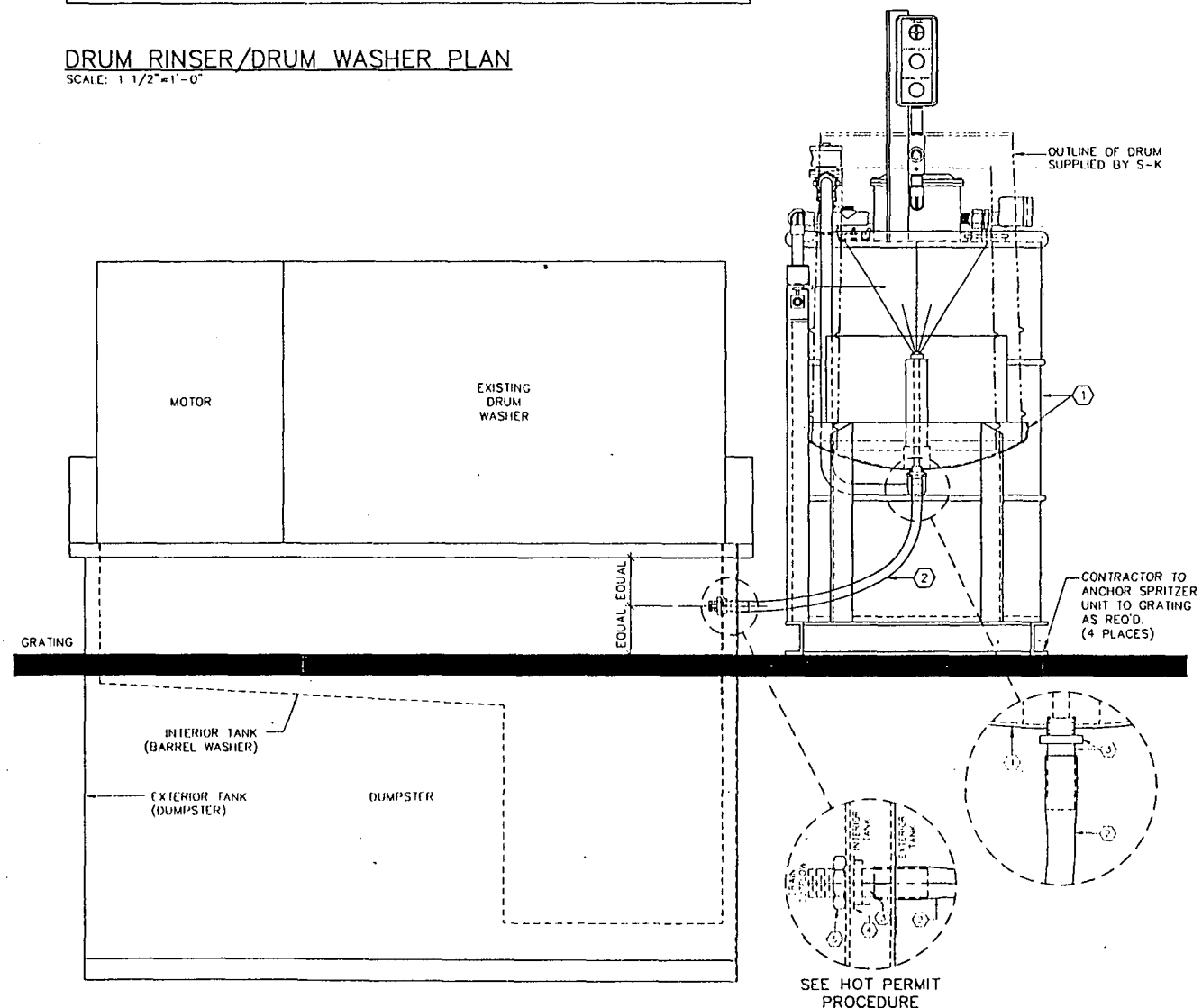


RETURN/FILL SHELTER PLAN
SCALE: 1/4"=1'-0"

TYPICAL DRUM RINSER INSTALLATION DETAILS



DRUM RINSER/DRUM WASHER PLAN
SCALE: 1 1/2"=1'-0"



DRUM RISER/WASHER FRONT ELEVATION
SCALE: 1 1/2"=1'-0"

GENERAL NOTES

- THIS FACILITY IS FOR THE STORAGE AND HANDLING OF CLASS IB, CLASS II & CLASS IIIA & IIIB LIQUIDS.
- CONTRACTOR TO VERIFY EXISTING SITE CONDITIONS.
- CONTRACTOR TO PROVIDE A COMPLETE SYSTEM.
- UNLESS NOTED OTHERWISE ALL ITEMS REQ'D FOR INSTALLATION SHALL BE SUPPLIED BY CONTRACTOR.
- SEE THE EQUIPMENT SCHEDULE FOR A LIST OF S-K SUPPLIED ITEMS.
- CONTRACTOR TO CUT 30"L. x 3/4" HOSE (ITEM 2) AS REQ'D. TO PROVIDE SMOOTH ARC. IF LONGER HOSE IS REQ'D. CONTRACTOR TO SUPPLY A NEW LONGER HOSE.
- CONTRACTOR TO TIE INTO EXISTING 110V ELECTRICAL SYSTEM AS REQ'D. PER CODE.
- CONTRACTOR TO CONSULT W/ THE LOCAL BRANCH MANAGER REGARDING THE FINAL LOCATION OF THE DRUM RINSER UNIT.
- CONTRACTOR TO MOUNT EXPLOSION PROOF SWITCH (ITEM NO. 6) ON WALL AS REQ'D.

HOT PERMIT PROCEDURE

- CONTRACTOR HARDWARE:
 - HOLE SAW ARBOR WITH 1/4" PILOT DRILL
 - 1 3/4" HOLE SAW
 - 1 1/8" HOLE SAW
- PROCEDURE:
 - USE SAW ARBOR TO DRILL 1/4" PILOT HOLE THRU EXTERIOR AND INTERIOR TANKS
 - WITH ARBOR AND 1 3/4" HOLE SAW, CUT HOLE INTO EXTERIOR TANK.
 - WITH ARBOR AND 1 1/8" HOLE SAW, CUT HOLE INTO INTERIOR TANK.

EQUIPMENT SCHEDULE

TAG	DESCRIPTION	QTY	REMARKS
1	SPRITZER UNIT SEE DWG. BSD-932	1	SUPPLIED BY S-K INSTALLED BY CONTRACTOR
2	30"L. x 3/4" HOSE	1	SUPPLIED BY S-K INSTALLED BY CONTRACTOR
3	HOSE BARB	2	SUPPLIED BY S-K INSTALLED BY CONTRACTOR
4	GASKET	1	SUPPLIED BY S-K INSTALLED BY CONTRACTOR
5	NUT	1	SUPPLIED BY S-K INSTALLED BY CONTRACTOR
6	EXPLOSION PROOF SWITCH	1	SUPPLIED BY S-K INSTALLED BY CONTRACTOR SEE GEN. NOTE 9

REVISIONS

NO.	DESCRIPTION	BY	CHK	APPR	DATE
A	RELEASED TO BJ FOR REVIEW	MBH			030796
B	UPDATED GEN NOTES (3, 6, 7, 8&9) UPDATED EQUIP. SCHED. (3 & 6) BEND ELEC. CONN. VERT & DOWN AND UPDATED ARROW REF. CHANGED DWG. TITLE DRUM RINSER WAS SPRITZER REMOVED ALTERNATE LOC. DRUM WASHER WAS BARREL WASHER	MBH			032296

PROPRIETARY STATEMENT

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TITLE
DRUM RINSER (SPRITZER) INSTALLATION
DETAILS & TYPICAL R/F LOCATION PLANS

Safety-Kleen Corp. 1000 NORTH RANDALL ROAD ELGIN, ILLINOIS 60123 PHONE (847)697-6460					
SCALE AS NOTED	BY MBH	CHKD KJM	APPROVED DDD	OPERATIONS RJ/WJ	DATE 030796
SERVICE CENTER STANDARDS			STD-DWG NUMBER		REV. NO.
FABRICATION			BSD-933		B