



# TERA, inc.

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P.O. Box 740038, Houston, Texas 77274, Tel. 713.772-0876, Fax: 713/981-7713

April 25, 1991  
91-141

SAFETY-KLEEN CORPORATION  
777 Big Timber Road  
Elgin, Illinois 60123

Attention: Mr. Wayne Olsen

Subject: Document Submittal for Design Revisions  
Albuquerque Branch

The following items document recent design revisions and are enclosed for your use:

1. Drawing No. 700801-0005, Rev. 00, Partial Site Plan
2. Drawing No. 700801-6000, Rev. 00, H-3 Flammable Storage Bldg.
3. Drawing No. 700801-6003, Rev. 00, H-7 Return & Fill Shelter
4. Design Assessment, Proposed Used Solvent Storage Tank System, TERA Report No. 90-141
5. Selected design calculations and checklist for Flammable Storage Building

As shown in the above documents, the design revisions primarily relate to a change to concrete masonry unit (CMU) wall construction for the two shelters, and the addition of an underground tank for containment of firewater from the sprinkler system of the flammables shelter. Double-wall storage tanks for solvents have been retained in the design.

Some clarifications in the draft permit also appear to be in order as a result of these changes. Our suggestions are listed below for your information. (Similar discrepancies may appear in the permit application and supporting documents or other sections.)

Permit

Reference      Clarification

- |         |   |
|---------|---|
| III.A.1 | The enclosed shelter for ignitable wastes is no longer proposed to be constructed of metal. The floor space of the proposed shelter is 1242 square feet, with spill containment provided by a coated concrete trench. |
| III.A.3 |   |
| III.1.1 |   |
| IV      | The existing underground used solvent tank is proposed for use until construction of the new facilities (after granting of permits) is completed.   |
| IV.A    | Aboveground piping within the secondary containment of the Return & Fill Shelter may be assembled with threaded joints.   |
| IV.1.1  |   |

Permit  
Reference      Clarification

Underground piping is proposed for use, and will include containment in the form of double walls.

IV.B                      The proposed underground waste tank is 8 ft diameter and  
IV.1.1                    32.5 ft long, and constructed of carbon steel with a fiberglass  
                                 exterior cladding. The tank will be built in accordance with  
                                 Underwriter's Laboratory Standard 58.

IV.1.1                    Containment for the return and fill station is to be coated  
                                 concrete, 20' x 14'-8" x 1'-0" in size, and equipped with a  
                                 blind sump. The return and fill station walls will be  
                                 constructed of masonry block units.

Please contact us if you have any questions.

Very Truly Yours,  
TERA, Inc.



John W. Cox, P.E.  
Vice-President

JWC/WRV  
Enclosures



SUBJECT: S-K ALBUQUERQUE

JOB NO.: 91-141

STORAGE BLDG. SEISMIC RESPONSE

 TERA, inc.

FILE:

BY: AWC DATE: 4-25-91

SHEET:

1

OF:

1

REF. U.B.C. 1989 SECTION 2312 & FUNDAMENTALS OF REINFC MASONRY DESIGN  
SITE: ZONE 2B  
Mtl: CONC. MASONRY DESIGN OF CALIF.

STATIC FORCE PROCEDURE:

$$V = \frac{ZIC}{R_w} W$$

WHERE  $Z = 0.20$   
 $I = 1.25$   
 $C = 2.75$  (M2.1)  
 $R_w = 6$

$$\begin{aligned} W &= \text{WALL WEIGHT} + \text{ROOF WEIGHT} + 25\% \text{ STORAGE WEIGHT} \\ &= (120 \times 12 \times 100) + (40 \times 30 \times 20) + (0.25 \times 1096 \times 9.33) \\ &= 168K + 24K + 2.3K \\ &= 194.3K \end{aligned}$$

$$\begin{aligned} V &= \frac{0.20 \times 1.25 \times 2.75}{6} \times 194.3 \\ &= 0.115 \times 194.3 \\ &= \underline{22.3K} \end{aligned}$$

REINFORCING STEEL AVAILABLE TO RESIST SHEAR: #6 BARS @ 24" CL.

$$\text{ie. } \frac{140}{2} = 70 \text{ BARS}$$

$$A_s = 70 \times \frac{\pi}{4} \times 0.75^2 = 70 \times 0.44 = 30.93 \text{ IN}^2$$

$$f_s = \frac{22.3}{30.93} = 721 \text{ PSI} \ll \text{ALLOWABLE}$$

DESIGN IS SUITABLE FOR SEISMIC LOADS

D.O. FOR FLAMMABLES SHELTER, BY INSPECTION.

SUBJECT: S-K ALBUQUERQUE

JOB NO.: 91-141

FIRE PROTECTION



FILE: \_\_\_\_\_

BY: AWC DATE: 4-22-91

SHEET: 1 OF: 2

REF. NFPA 30, TABLE D-4.6.2 (a)  
 UBC, SECTION 902

FLAMMABLE STORAGE BUILDING.

CLASS II B LIQUIDS w/ 5 GAL PAILS

SPRINKLER DENSITY = 0.30 GPM/ft<sup>2</sup>

FLOOR AREA = 40'-0" x 30'-8"

= 40.0 x 30.67 = 1227 ft<sup>2</sup>

SPRINKLER RATE = 0.30 x 1227

= 368 GPM

CONTAINMENT VOLUME:

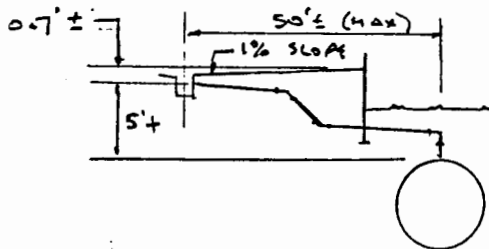
VOL = 20 MINS + VOLUME OF LARGEST CONTAINER

= 368 x 20 + 16

= 7360 + 16 = 7376 GALLONS

DRAINAGE SYSTEM:

DRAIN TO BURIED TANK.



FLOW 368 GPM

ENTRANCE LOSS =  $0.17 \times \frac{V^2}{2g}$

PIPE FRICTION - CAMERON

PIPE SIZE	ENTRANCE LOSS	EQV. FITTINGS	EQV. PIPE	PIPE FRICTION	RESULT @ 368 GPM
3"	3.1'	16'	66'	19'	TOO SMALL
4"	1.04'	21'	71'	52'	MARGINAL
6"	0.2'	32'	82'	0.75'	O.K.

USE 6" DRAIN PIPE

CONTAINMENT PROVIDED

VOL = TRENCH + SLOPING FLOOR = 10 x 22 +  $\frac{1}{2} \times 0.15 \times 40 \times 30.67$

= 40 + 61.3 = 101.3 ft<sup>3</sup> = 758 GALS. TANK = 7376 - 758 = 6618

TANK VOL REQ'D = 6620 GALLONS!

SUBJECT: S-K ALBUQUERQUE

JOB NO.: 9-141

FIRE PROTECTION



FILE: \_\_\_\_\_

BY: AWC DATE: 4-22-91

SHEET: 2 OF: 2

RETURN + FILL SHALTER

CLASS I B LIQUIDS w/ 5 gal. PAILS (0.30 GPM/ft<sup>2</sup>)

$$\text{BLOW AREA} = 20 \times 15.3 = 306 \text{ ft}^2$$

$$\text{SPRINKLER RATE} = 0.3 \times 306 = \underline{92 \text{ GPM}}$$

CONTAINMENT VOLUME:

$$\text{VOL.} = 92 \times 20 + 375 \text{ (DUMPSYER)}$$

$$= 1840 + 375 = \underline{2215 \text{ GAL}}$$

$$\text{CURS HEIGHT} = \frac{2215}{7.48 \times 306} = 0.97' = 11.6''$$

USE 12" HIGH CURS

SUBJECT: S-K ALBUQUERQUE

JOB NO.: 91-141

SECONDARY CONTAINMENT



FILE: \_\_\_\_\_

BY: AWB DATE: 4-22-91

SHEET: 1 OF: 1

FLAMMABLE STORAGE BUDG

$$\text{STORAGE VOL.} = 1092 \text{ GALLONS}$$

$$\begin{aligned} \text{CONTAINMENT VOL} &= 0.1 \times 1092 = 109.2 \text{ GALLONS} \\ &= \frac{109.2}{7.48} = \underline{14.6 \text{ ft}^3} \end{aligned}$$

AVAILABLE VOLUME:

$$\text{TRENCH} = 10' \text{ LG} \times 2' \text{ WIDE} = 20 \text{ ft}^2$$

$$\text{REQ'D DEPTH} = \frac{14.6}{20} = 0.73 \text{ ft} = \underline{8.8 \text{ IN}}$$

AVAILABLE DEPTH  $\approx$  14" - OK

RETURN & RILL SHELTER

$$\text{LARGEST CONTAINER} = \underline{375 \text{ GALLONS}} \text{ (DUMPSTER)}$$

AVAILABLE VOLUME :-

$$\begin{aligned} \text{CURBED AREA} &= 20.0 \times 15.3 \times 1.0 \\ &= 306 \text{ ft}^3 \end{aligned}$$

$$= \underline{3289 \text{ GALLONS}} \text{ — OK}$$

SUBJECT: S-K ALBUQUERQUE

BLDG VENTILATION

BY: JWC DATE: 4-22-91

JOB NO.: 91-141

FILE: \_\_\_\_\_

SHEET: 1 OF: 1



REF. NFPA 30, SECTION 5-3.3

FLAMMABLE STORAGE BLDG

VENT RATE 1.0 CFM PER S.F. OF FLOOR AREA.

$$\begin{aligned} \text{FLOW} &= 1.0 \times 1227 \\ &= 1227 \text{ CFM} \end{aligned}$$

USE 1500 CFM (ADD 6 AIR CHANGES)

RETURN & RILL SHELTER

VENT RATE = 1.0 CFM / S.F.

$$\begin{aligned} \text{FLOW} &= 1.0 \times 309 \\ &= 309 \text{ CFM} \end{aligned}$$

USE 350 CFM

SUBJECT: S-R ALBUQUERQUE

JOB NO.: 91-141

STORAGE BLDG. FLOOR STRENGTH



FILE: \_\_\_\_\_

BY: AWC DATE: 4-25-91

SHEET: 1 OF: 1

REF. PCA SLAB DESIGN - CONCRETE FLOORS ON GRADE

LIVE LOAD - CONTAINERS

$$M.R. = 9 \sqrt{f'_c} = 9 \sqrt{3000} = 9 \times 54.8 = 493 \text{ psi (FLEXURAL STRENGTH)}$$

$$\begin{aligned} \text{FLOOR LOAD} &= 4 \times 4 \text{ pallets} \times 2 \text{ tiers} \times 9 \text{ drums} \times 16 \text{ gallon} \times 3.33 \\ &= \frac{2 \times 9 \times 16 \times 3.33}{4 \times 4} \\ &= \underline{150 \text{ psf}} \end{aligned}$$

ALLOWABLE LOAD

$$\begin{aligned} W &= 0.123 f_r \sqrt{h k} \\ &= 0.123 \times 493 \sqrt{6 \times 100} \\ &= \underline{1485 \text{ psf}} \end{aligned}$$

$f_r$  = ALLOWABLE STRESS, PSI  
 $h$  = SLAB THICKNESS, IN  
 $k$  = SUB GRADE MODULUS, PSI = 100 AVG

$$\text{SAFETY FACTOR} = \frac{1485}{150} = \underline{9.9 \text{ — OK}}$$

FORK TRUCK - WHEEL LOADS

AXLE LOAD = 6000 lb (2000 lb TRUCK)

WHEEL SPACE = 30"

TIRE AREA = 25 in<sup>2</sup>

$$\text{CONCRETE WORKING STRESS: } W.S. = \frac{M.R.}{S.F.} = \frac{493}{2.0} = 247 \text{ psi}$$

ALLOWABLE SLAB STRESS

$$f_s = \frac{247}{6.4} = 38.5 \text{ psi}$$

REQ'D SLAB THICKNESS FROM FIG. 3 = 4.9" < 6" PROVIDED — OK

6" SLAB w/ MIN. REINFORCING IS ADEQUATE



CONTAINER STORAGE

40 CFR Subpart I Compliance Checklist  
For Safety-Kleen Corp. Facilities

Branch Location: Albuquerque NM Review By: WAN Date: 4/25/91  
Storage Area Type: Proposed Class IB Shelter

- Future 1. Containers appear to be in satisfactory condition. (264.171)
- Future 2. Containers are constructed of metal and lined with plastic. (Otherwise, describe container materials: \_\_\_\_\_.) (264.172)

Future 3. All containers are closed. (264.173(a))

Future 4. Container storage protects from leaks. (264.173(b))

Future 5. Records of weekly inspections for leaks and deterioration of containers and containment system are on file at the branch. (264.174)

YES 6. The containment system for this container storage area satisfies the following: (264.175)

YES a. Base under containers is free of cracks or gaps.

YES b. Concrete base is coated with a material reported to be impermeable to wastes and water. (Note coating material if known: BRUTEM 70 or equal.)

YES c. Containers are elevated above base

or

Base is sloped to drain liquids away from containers.

YES d. Volume of containment is more than 10% of total container volume.

# of containers \_\_\_ x \_\_\_ gal = 1092 gallons (total)

Largest container volume = 16 gallons

Containment volume: (1 x w x d x 7.48 gal/cf) 2'x10'x 14": 174 gal.

OK e. Containment area is within standard Safety-Kleen shelter

YES 7. Storage area is at least 50 ft from nearest apparent property line.

NFPA 30 - 1990 Compliance Checklist  
for Safety-Kleen Corp. Class IB Warehouse (Attached)

Branch Location: Albuquerque, NM    Review By: WRV    Date: 4-25-91

- YES    1. Approved containers (DOT or NFPA Specification) are used.
- YES    2. Maximum container size complies with Table 4-2.3 (60 gal. for DOT-spec metal drums).
- YES    3. Design complies with 4-4.2.1 for Cutoff Rooms and Attached Buildings:
- YES    a. Access openings are provided for firefighting.
- YES    b. Class IB materials are not dispensed in warehouse.
- YES    c. Walls, ceilings and floors are rated for 2-hour fire resistance, and openings in exposing walls are protected with fire doors rated for 1 1/2-hour fire resistance.
- YES    d. Walls are liquidtight at the floor level.
- YES    e. Means are provided to prevent the flow of liquids into adjacent building areas, and the drainage system has sufficient capacity for expected water discharge from sprinkler system (20 min.).
- YES    f. Storage design complies with 4-4.2.7 or 4-4.2.8.

**BRUTEM® 70  
Epoxy Traffic Coating System**

**Description**

Erutem 70 is a high performance epoxy floor coating system. It may be used as topcoat, floor sealer, or in conjunction with grit to form a non-skid surface. It cures to form a smooth, glossy surface finish.

**Recommended Uses**

Brutem 70 is ideally suited for coating floor areas such as:

- \* Areas around paper mill machinery
- \* Chemical process areas
- \* Mechanical equipment maintenance bays
- \* Aircraft hangers
- \* Food processing plants
- \* Warehouse traffic aisles

**Features**

- \* Excellent chemical resistance
- \* 100% solids, low toxicity system
- \* High gloss finish
- \* Rapid curing system for fast start-up
- \* Easy roller applied application
- \* Meets requirements of OSHA, USDA, FDA and other regulatory agencies.



BRUTEM 70 provides non-skid protection to traffic aisles.

**Product Characteristics**

Color (mixed)...Gray, Sage Green, Tile Red, Tan\*

Viscosity (mixed)..... 2500 cps (light syrup consistency)

Pot Life (at 77°F.).....25 minutes. Available for light traffic in 12 hours.

Shelf Life.....Minimum one year if kept tightly sealed.

Packaging.....1½ gallon unit  
15 gallon unit

Yield.....200 sq.ft./gallon at 8 mils thickness per coat.  
(2 coats recommended)  
Estimates may vary according to conditions of surface, type of surface, material loss during mixing and application, and use as a topcoat over various size aggregates.

\* Special colors available upon request

**Properties of Cured System**

Compressive Strength.....24,700 psi

Tensile Strength.....7,885 psi

Tensile Modulus.....538,650 psi

Flexural Modulus.....477,850 psi

Shore D Hardness.....80

Temperature Limit.....180°F.

Chemical Resistance.....Dilute acids, caustics, salts, organic solvents, foods and water.

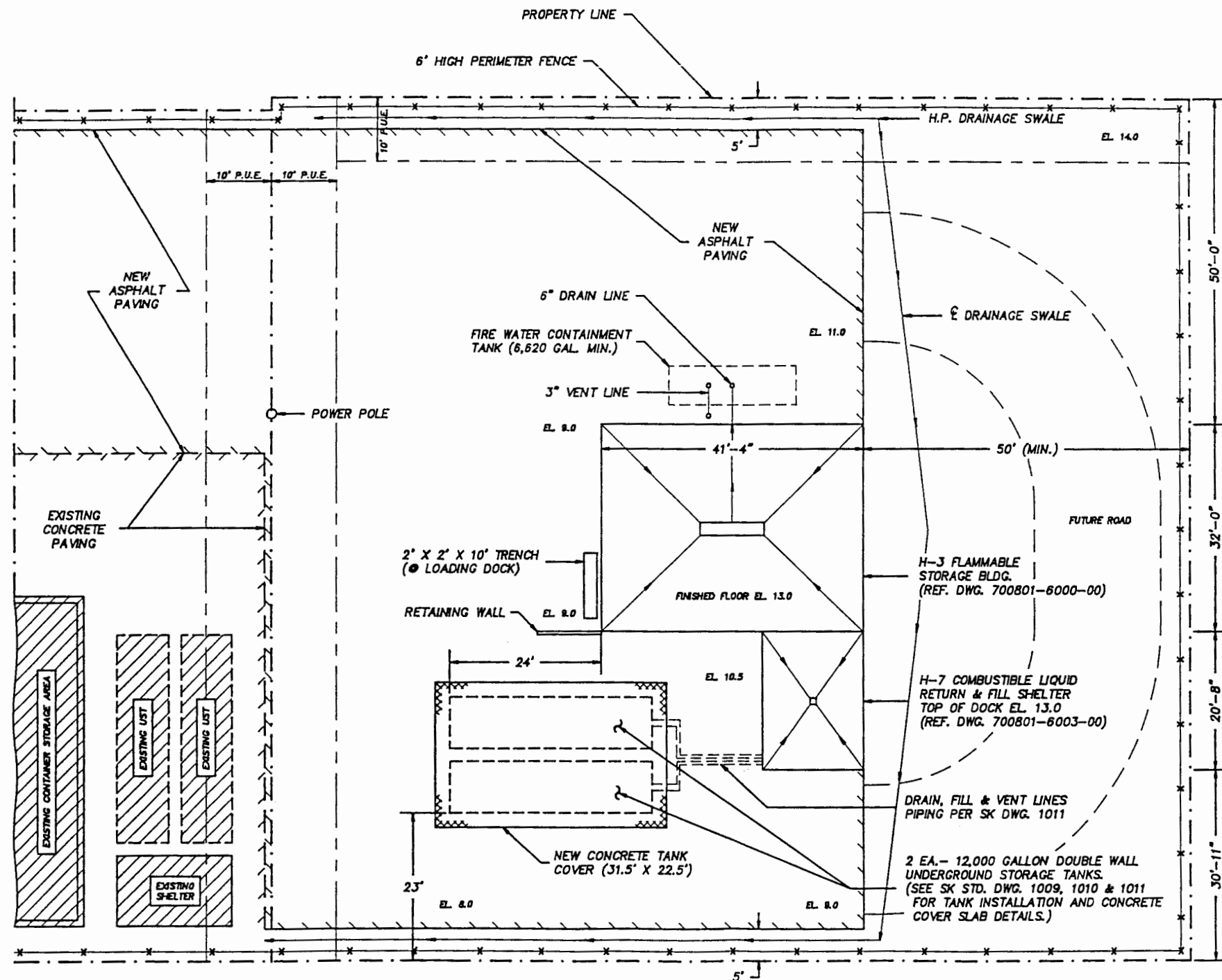
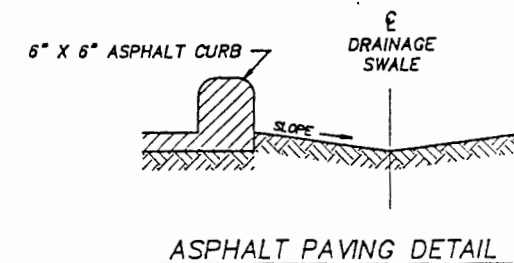
**BRUTEM® 70**  
Epoxy Traffic Coating System  
(Bulletin 31-1)



**I.W. Industries**  
6119 Westview  
P.O.Box 19452  
Houston, Texas 77224  
(713) 681-0345  
TWX: 910-881-2461

**GENERAL NOTES**

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AMAFCA NORTH DIVERSION CHANNEL

GIRARD AVE.

**NOTE:**

A FIRE HYDRANT IS LOCATED APPROX. 50' FROM THE NW CORNER OF THE PROPERTY AND IS WITHIN 450' OF THE FURTHEST POINT OF THE STORAGE BUILDING.

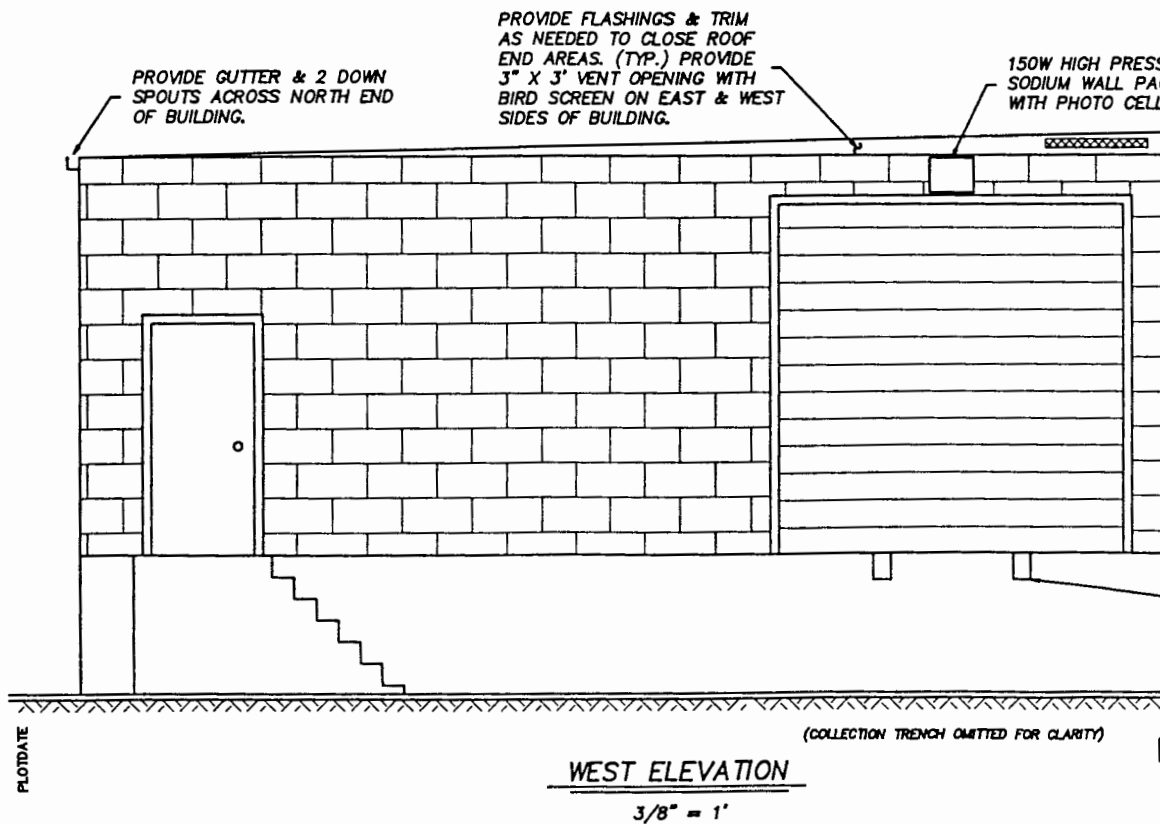
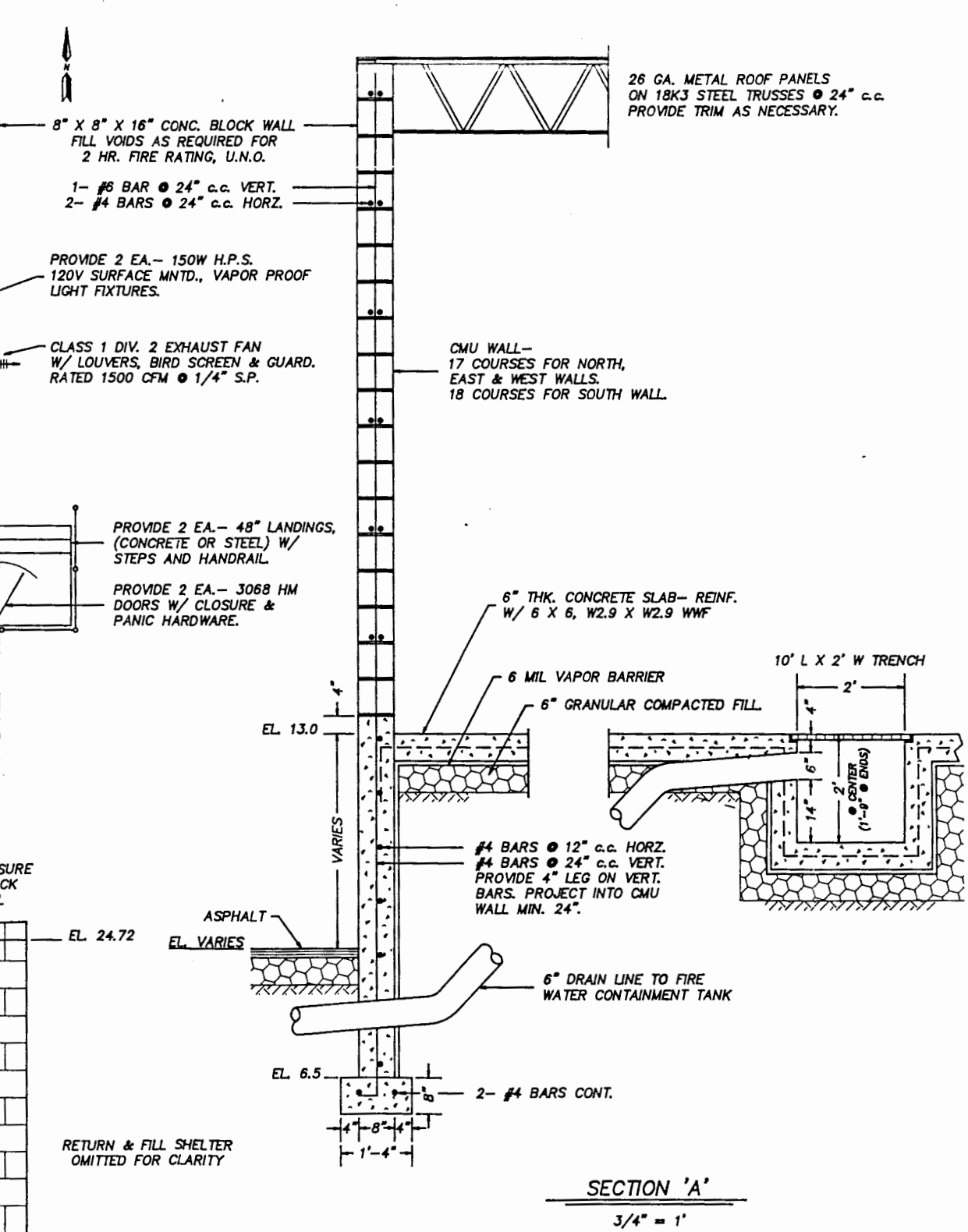
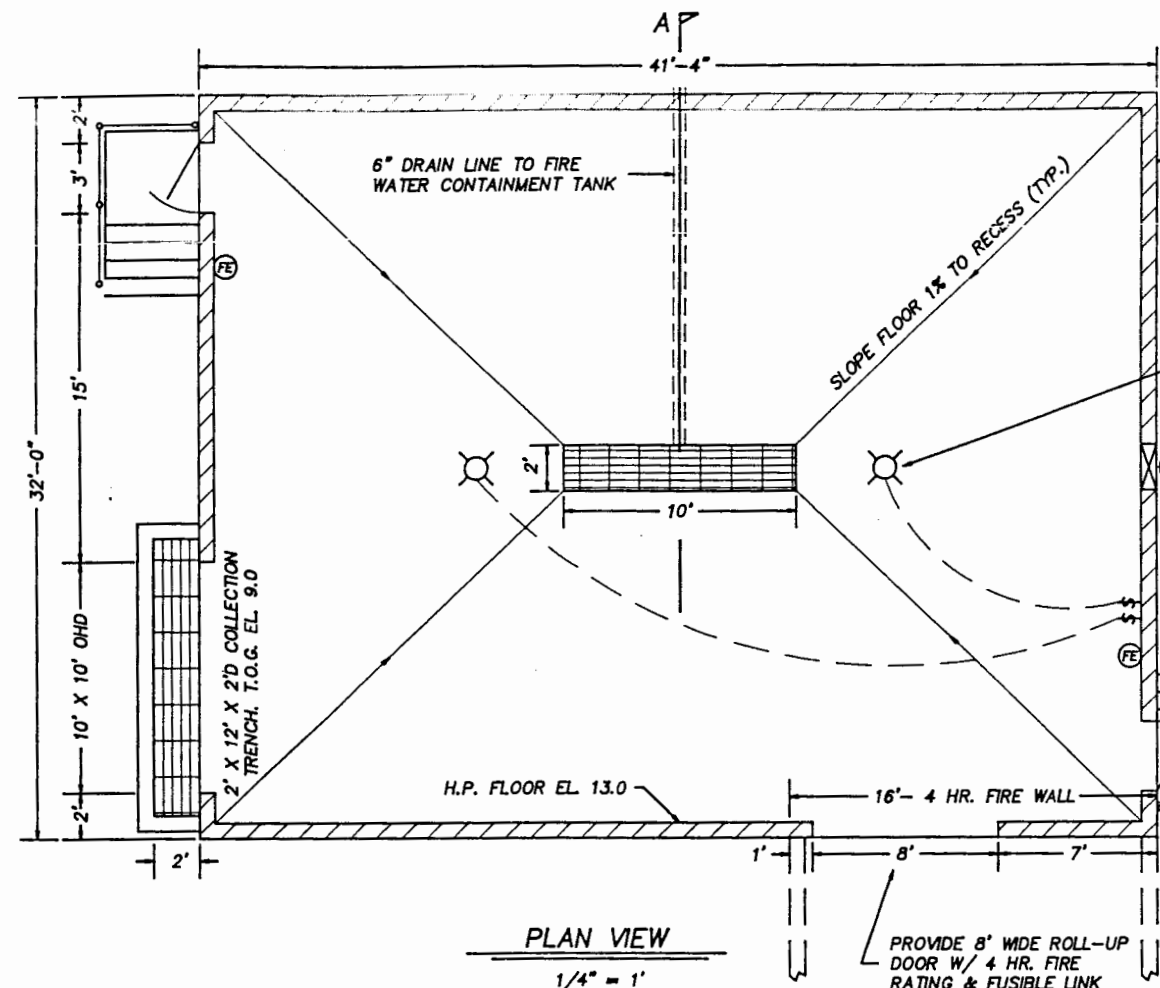
										TITLE					
										PARTIAL SITE PLAN					
										<b>SAFETY-KLEEN CORP.</b> 777 BIG TIMBER ROAD ELOR, LLINGS 80123 PHONE 708-697-1440					
										SCALE	BY	CHKD	P.E. APPR	OP. APPR	DATE
										1" = 10'	J.F.G.				4/24/91
										NO.	DESCRIPTION	BY	CHK	APPR	DATE
										REVISIONS		ALBUQUERQUE, NM		STD-DWG-REV NO.	700801-0005-00

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**NOTES:**

- 1) CONCRETE SHALL BE A MINIMUM OF 3000 PSI @ 28 DAYS. MATERIALS, MIXING, PLACEMENT, FINISHING TOLERANCES AND ALL OTHER UNSPECIFIED DETAILS SHALL BE IN ACCORDANCE WITH ACI 318- LATEST EDITION.
- 2) REINFORCING STEEL SHALL BE GRADE 60 DEFORMED BARS. SPLICES, COVERAGE, PLACING AND OTHER DETAILS SHALL BE IN ACCORDANCE WITH ACI 318- LATEST EDITION.
- 3) CONCRETE FLOOR AND TRENCHES TO BE COATED WITH AN EPOXY COATING. (BRUTEM 70 OR EQUAL).
- 4) ALL ELECTRICAL WORK LESS THAN 18" ABOVE FLOOR SHALL BE CLASS 1, DIVISION 2, IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
- 5) CONTRACTOR TO VERIFY DESIGN FOR DOOR LINTELS AND OTHER STRUCTURAL DETAILS NOT SPECIFIED HEREIN.
- 6) FIRE SUPPRESSION DIAGRAM TO BE SUPPLIED BY THE CONTRACTOR AND APPROVED BY SK AND FIRE MARSHAL. WET PIPE SPRINKLER SYSTEM TO BE DESIGNED TO PROVIDE 0.30 GPM / S.F. OF FLOOR AREA.
- 7) PROVIDE 10# DRY CHEMICAL FIRE EXTINGUISHER AT EACH ENTRANCE DOOR.
- 8) FOR 4 HR. FIRE WALLS, FILL UNROUTED CELLS OF CMU WALL WITH NONCOMBUSTIBLE INSULATION.
- 9) PROVIDE 2-HOUR FIRE RATED PROTECTIONS FOR CEILING & ROOF TRUSSES.



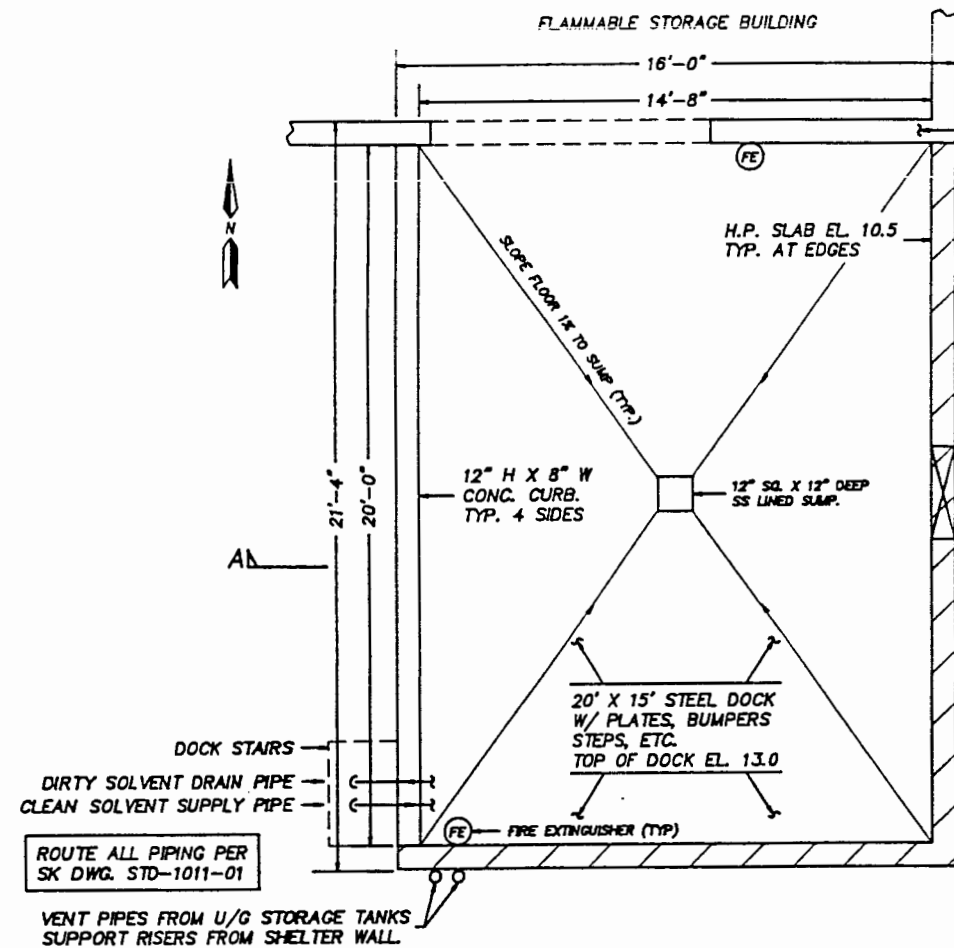
TITLE					FLAMMABLE STORAGE BUILDING PLAN, SECTION AND DETAILS				
SAFETY-KLEEN CORP.					777 BIG TIMBER ROAD ELGIN, ILLINOIS 60123 PHONE 708-687-6460				
SCALE NOTED	BY J.F.G.	CHKD	P.E. APPR	OP. APPR	DATE	4/24/91			
NO.	DESCRIPTION	BY	CHK	APPR	DATE	STD-DWG-REV NO.			
REVISIONS						ALBUQUERQUE, NM 700801-6000-00			

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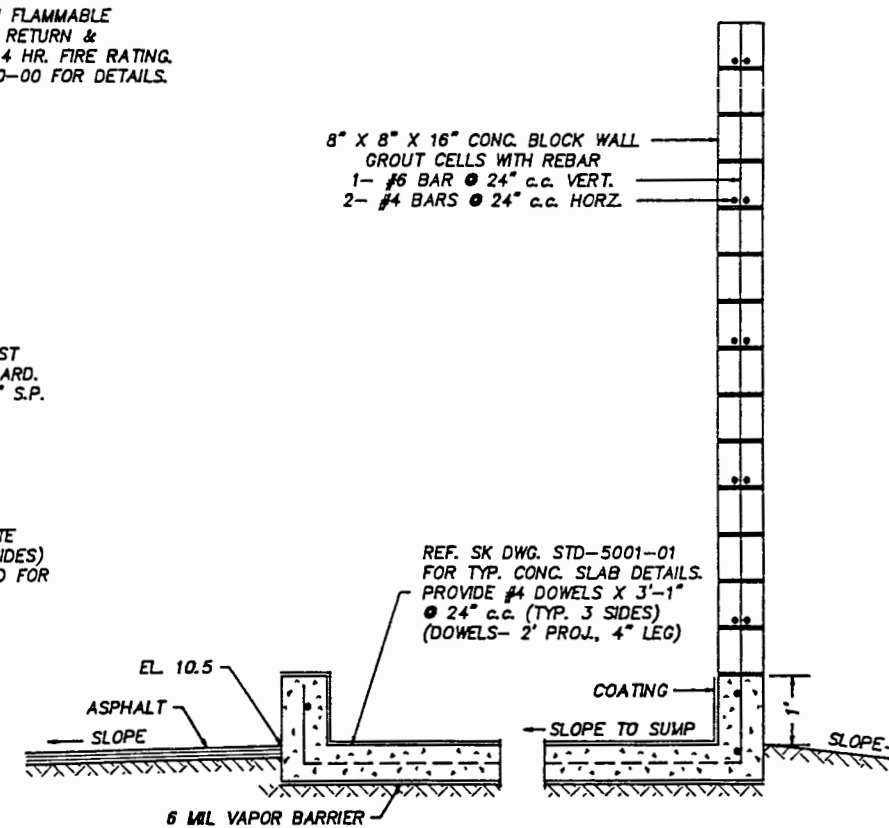
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- 2) REINFORCING STEEL SHALL BE GRADE 60 DEFORMED BARS. SPLICES, COVERAGE, PLACING AND OTHER DETAILS SHALL BE IN ACCORDANCE WITH ACI 318- LATEST EDITION.
- 3) ALL CONCRETE FLOOR SURFACES AND 1" HIGH CURB TO HAVE AN EPOXY BASE COAT (SIKAGARD 82 OR EQUAL) AND A POLYURETHANE TOP COAT (SIKAFLEX 1A OR EQUAL).
- 4) ALL ELECTRICAL WORK LESS THAN 18" ABOVE FLOOR SHALL BE CLASS 1, DIVISION 2, IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
- 5) CONTRACTOR TO VERIFY DESIGN FOR DOOR UNTELS AND OTHER STRUCTURAL DETAILS NOT SPECIFIED HEREIN.
- 6) FIRE SUPPRESSION DIAGRAM TO BE SUPPLIED BY THE CONTRACTOR AND APPROVED BY SK AND FIRE MARSHAL. WET PIPE SPRINKLER SYSTEM TO BE DESIGNED TO PROVIDE 0.30 GPM / S.F. OF FLOOR AREA.
- 7) PROVIDE 10# DRY CHEMICAL FIRE EXTINGUISHERS AS SHOWN.
- 8) CONTRACTOR SHALL INSTALL STEEL DOCK, DUMPSTER, DRUM WASHER, FRONT ROOF FRAME, PIPING, HIGH LEVEL ALARMS, ETC., ALL DETAILS INDICATED ON THE FOLLOWING REFERENCED SAFETY-KLEEN DRAWINGS. THESE DRAWINGS ARE INCORPORATED INTO AND MADE A PART OF THIS DESIGN BY REFERENCE.
  - STD-5001-01 CONCRETE SLAB DETAILS
  - STD-1009-02 DOUBLE WALL GLASTEEL TANK (SH. 1 OF 3)
  - STD-1010-01 DOUBLE WALL GLASTEEL TANK (SH. 2 OF 3)
  - STD-1011-01 DOUBLE WALL GLASTEEL TANK (SH. 3 OF 3)
  - E11034 ASSEMBLY DETAILS FOR DBL BAY SHELTER
  - D10985 EXPLODED ASSEMBLY DETAILS (STEEL DOCK)
  - D12831 ASSEMBLY DETAILS (STEEL DOCK)
  - D13102 HIGH LEVEL ALARMS
  - D10450-08 DUMPSTER DETAILS
  - D10452-08 DUMPSTER VALVE AND HOSE
  - D14288 DRUM WASHER
- 9) DETAILS SHOWN ON THE ABOVE REFERENCED DRAWINGS SHALL BE MODIFIED AS NECESSARY TO CONFORM TO THE DIMENSIONS SHOWN ON THESE DRAWINGS. IN THE CASE OF A DISCREPANCY BETWEEN THESE DRAWINGS AND REFERENCED DRAWINGS, THOSE DETAILS SHOWING THE MOST STRINGENT AND COMPLETE WORK SHALL GOVERN.



**PLAN VIEW**

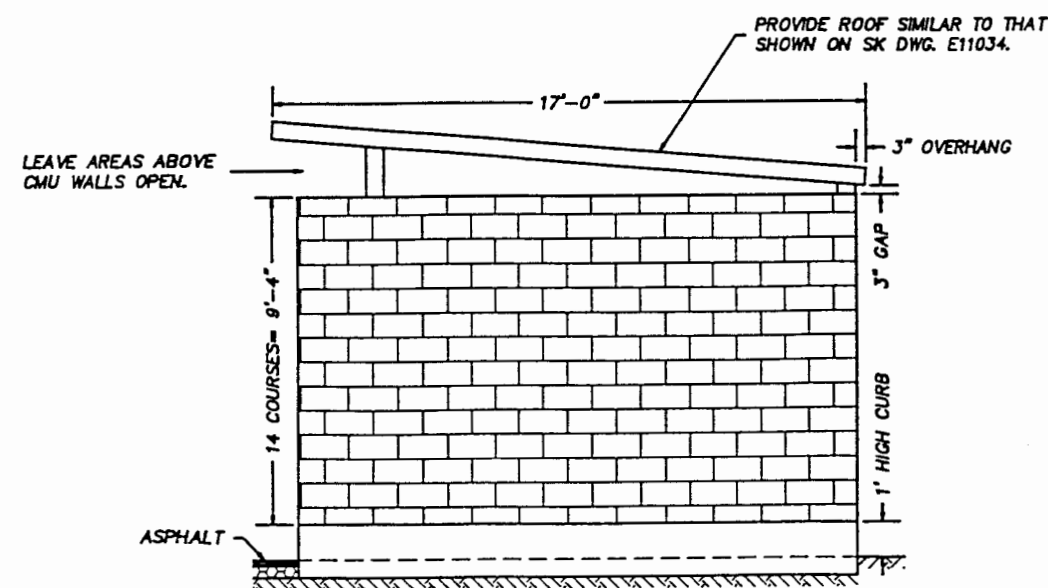
3/8" = 1'



**SECTION 'A'**

3/4" = 1'

STEEL DOCK, FRONT ROOF FRAME AND ROOF DETAILS OMITTED FOR CLARITY



**SOUTH ELEVATION**

3/8" = 1'

					TITLE	
					RETURN & FILL SHELTER PLAN, SECTION AND DETAILS	
					SAFETY-KLEEN CORP. 777 BIG THUNDER ROAD ELLEN, ILLINOIS 60123 PHONE 708-897-6440	
SCALE NOTED	BY J.F.G.	CHKD	P.E. APPR	OP. APPR	DATE 4/24/91	
NO.	DESCRIPTION	BY	CHK	APPR	DATE	
REVISIONS						
					ALBUQUERQUE, NM	STD-DWG-REV NO. 700801-6003-00