



TERA, Inc.

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April 22, 1992
92-400-36

Mr. Bob Wachsmuth
SAFETY-KLEEN CORP.
2750 Thompson Creek Road
Pomona, California 91767

Subject: Certification of H-3 Flammable Storage Building at
the Safety-Kleen Albuquerque, New Mexico, Branch

Dear Mr. Wachsmuth:

On April 9, 1992, Bob Speake of TERA, Inc., inspected the Safety-Kleen branch facilities at Albuquerque, New Mexico (EPA No. NMD 00804294).

This letter is to certify that on April 9, 1992 we found the H-3 Flammable Class 1B Storage Building to be as described in the attached certification report.

The H-3 Building secondary containment capacity is 965-gallons. Hazardous waste storage for this building is therefore limited to 9,650-gallons to comply with 40 CFR 264.175(b)(3)). We observe that the building is currently permitted to store 1092 gallons of Class 1B hazardous waste.

Please let me know if you have any questions regarding this certification. Thank you.

Very truly yours,

TERA, Inc.

Robert C. Speake
Senior Engineer

John W. Cox, Ph.D., P.
Vice President



RCS/JWC/lf

Attachments: Two (2) copies certification report

Copies to: Three (3) to New Mexico Environment Department (Dr. Herbert Grover)
One (1) to Safety-Kleen Albuquerque Branch Manager (Ralph)
One (1) to Safety-Kleen EHS (Jennifer Jendras)
One (1) to Safety-Kleen Tech Services (Wayne Olson)

TERA Report No. 92-400-36

CERTIFICATION OF H-3 FLAMMABLE STORAGE BUILDING
ALBUQUERQUE, NEW MEXICO

For

SAFETY-KLEEN CORP.
Elgin, Illinois

 **TERA, inc.**



TERA, inc.

6440 Hillcroft, Suite 200
P.O. Box 740038, Houston, Texas 77274, Tel. 713/772-0876, Fax: 713/981-7713

92-400-36

CERTIFICATION

I have supervised the installation assessment dated April 22, 1992, of the H-3 Flammable Class IB Storage Building at the Safety-Kleen Corporation facility in Albuquerque, New Mexico. The EPA ID Number for this facility is: NMD 000804294.

With regard to this duty, I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all related attachments and that, based on my observations and my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

John W. Cox

Registered Professional Engineer

New Mexico No. 10317

TERA, Inc.

P. O. Box 740038

Houston, Texas 77274

Signed: _____

Date: _____



CERTIFICATION OF H-3 FLAMMABLE STORAGE BUILDING
ALBUQUERQUE, NEW MEXICO

* * *

For

SAFETY-KLEEN CORP.
Elgin, Illinois

* * *

By

TERA, Inc.
Houston, Texas

April 1992

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INSTALLATION CERTIFICATION
H-3 FLAMMABLE STORAGE BUILDING

This report documents and certifies the installation of the H-3 Flammable Storage Building (hereinafter called "H-3 Building") at the Safety-Kleen Corp. facility in Albuquerque, New Mexico. The EPA ID number for this facility is NMD 000804294. This certification was performed and this report was written to address the requirements of 40 CFR 264.17, 264.35, 264.175(b), and 264.176 and the corresponding provisions of Part V of the New Mexico Hazardous Waste Management Regulations, as well as the requirements of the compliance schedule for the H-3 Building in the permit issued November 29, 1991 by the New Mexico Environment Department. Each item in this compliance schedule will be separately addressed below. Text in small print is quoted from the compliance schedule.

* * * * *

I.I.1 Prior to operation of the Double-Walled Underground Waste Solvent Storage Tank and its ancillary equipment, and the H-3 Flammable Storage Building, the Permittee shall submit as-built plans of both units and any ancillary equipment.

In conformance to item I.I.1.a, as-built plans of the waste solvent storage tank system were submitted to the New Mexico Environment Department with the RCRA tank system installation assessment, TERA Report No. 92-403-19, dated March 5, 1992.

A. SECONDARY CONTAINMENT

I.I.1.b. At a minimum, these plans for the H-3 Flammable Storage Building shall indicate:

A. SECONDARY CONTAINMENT (Continued)

- i. The dimensions of the building, including the secondary containment capacity as required by HWMR-6, Pt. V, sec. 264.175(b)

Each subparagraph of the regulation quoted above is addressed separately below. Drawings, manufacturer's literature, and inspection photographs are attached to this report (as plates) for further reference.

1. Building and Secondary Containment Dimensions

The dimensions of the building and its secondary containment are shown on Safety-Kleen drawing number 700801-6000-01, which is Plate 4 of this report. Inspection revealed that the major as-built dimensions of the building and its secondary containment closely follow those shown on the design drawings, except as shown on Plates 4 and 8.

2. Secondary Containment System Description

The H-3 Building secondary containment system consists of a four inch high reinforced concrete curbing below the reinforced masonry walls, a reinforced concrete slab which slopes down in all directions towards the center floor trench, and two exterior rollup door trenches, with underground piping between the door and center trenches. The two exterior swinging doors have automatic closers and watertight seals. (See Plate 4).

A. SECONDARY CONTAINMENT (Continued)

3. Secondary Containment Coating (HWMR-6, Pt. V,
Sec. 64.175(b)(1))

Inspection showed that the reinforced concrete floor slab in the H-3 Building has been coated. According to the contractor, it was coated with the Dupont industrial coating described in Plate 13. This coating is free of cracks or gaps and appears to be sufficiently impervious to contain leaks or spills until any material collected can be detected and removed. Stainless steel liners have been installed in the floor trenches. According to the contractor, the trenches were coated with the aforementioned industrial coating before the liners were installed and the joints between the liners and the reinforced concrete were sealed with the Sika joint sealant described in Plate 14. Thus, the secondary containment appears to satisfy the spill containment provisions of HWMR-6, Pt. V, sec. 264.175(b)(1).

4. Secondary Containment Design (HWMR-6, Pt. V,
Sec. 264.175(b)(2))

This secondary containment system is designed to collect a spill via a flow over the slab into the center floor trench. The entrance to the pipe exiting the center trench (and discharging into the firewater storage tank) was designed to be above the outlet pipes from the door trenches (see Section A, Plate 4 and Section B-B, Plate 5). This arrangement allows a spill to back up from the center trench, through the piping interconnecting the three trenches, and into the door trenches. The total volume (in all three trenches) was designed to be 10% of the permitted capacity of the building without overflowing into the firewater storage

A. SECONDARY CONTAINMENT (Continued)4. Secondary Containment Design (HWMR-6, Pt. V,
Sec 264.175(b)(2)) (Continued)

tank (which is underground and thus not as readily accessible as the floor trenches are for visual monitoring for the presence of hazardous waste. Such monitoring is required by Section 80.301(1)4 of The Uniform Fire Code, the city's fire code).

Inspection by TERA on April 9, 1992 revealed that the outlet pipe from the center trench was not installed above the door trench pipes as designed (See Plate 4 and Photo B on Plate 18). The contractor corrected this deficiency during April 10-13, 1992 as shown on Plates 8 and 19. A 90-degree elbow was installed to elevate the mouth of the center trench outlet pipe above the entrances to the door trench outlet pipes. A square of sheet metal was fastened to the underside of the grate to cover the open mouth of the pipe, which now faces upward. Thus, the firewater collection tank remains isolated from a potential 10% hazardous waste spill within the warehouse. With these modifications, the H-3 Building's secondary containment now appears to satisfy the design requirements of HWMR-6, Pt. V, sec. 264.175 (b)(2).

5. Secondary Containment Volume (HWMR-6, Pt. V,
Sec. 264.175(b)(3))

A table showing the as-built volume of the building's secondary containment (i.e two door trenches and the center trench) in on Plate 8. The total volume of the secondary containment is 965 gallons, which is about 88 percent of the 1092-gallon hazardous waste storage capacity for which the

A. SECONDARY CONTAINMENT (Continued)5. Secondary Containment Volume (HWMR-6, Pt. V,
Sec. 264.175(b)(3)) (Continued)

building is currently permitted. Thus, the secondary containment system has substantial reserve capacity: in fact, the center trench alone has sufficient capacity to store more than a 10% spill under the current permit. TERA concludes that the H-3 Building's secondary containment satisfies the capacity requirements of HWMR-6, Pt. V, sec. 264.175 (b)(3).

6. Prevention of Run-On into the Secondary Containment System
(HWMR-6, Pt. V, Sec 264.175(b)(4))

Since the building is roofed to prevent run-on from outside the building, its secondary containment system satisfies the requirements of HWMR-6, Pt. V, sec. 264.175(b)(4).

B. AISLE SPACE

I.I.1.b. At a minimum, these plans for the H-3 Flammable Storage Building shall indicate:

- ii. The aisle space as required by HWMR-6, Pt. V, sec. 264.35.

Plate 15 is a floor plan of the H-3 Building showing the aisle space required by the City of Albuquerque fire code (i.e. the Uniform Fire Code). Storage in the warehouse is limited to piles or palletized containers by the 0.25 gpm/sq. ft. capacity of the ceiling sprinkler system (UFC Tables 79.203-C through F). For containers up to 5-gallon capacity, storage height is limited to 6.5 feet (UFC Table 79.203-A). For larger containers, storage height is limited to one container high by the capacity of the

B. AISLE SPACE (Continued)

sprinkler system (UFC Table 79.203-C). The maximum size of container that can be stored in the warehouse is 60 gallons (UFC sect. 79.201(a)).

Based on Safety-Kleen's intent, declared in the permit application, to store hazardous waste in the H-3 Building in 5-gallon pails and 16-gallon drums, the theoretical building storage capacity for the layout shown on Plate 15, is between 4,752 and 10,560 gallons; a table of calculations for these limits is on Plate 15. The lower limit is based on 100 percent storage in 16-gallon drums; the upper limit is based on 100 percent storage in 5-gallon pails. However, the upper limit must be reduced to 9,650-gallons, based on secondary containment capacity (see subparagraph 1A5 above).

Warehouse aisle space, as shown on Plate 15, satisfies UFC sections 79.203(b), 79.204(b), and 80.304. These code provisions apply to flammable or combustible hazardous liquids storage warehouses. The main aisle is to be eight feet wide; side aisles are four feet wide. Aisles also provide access to exit doors, wall or floor-mounted components of the sprinkler system, the ventilating fan, wall-mounted fire extinguishers, and wall switches, as required by the fire code.

The aisle space provided on Plate 15 allows sufficiently-unobstructed movement of personnel and equipment to any area of the warehouse in the event of a fire, spill, or another emergency. Thus, the layout shown on Plate 15 appears to satisfy HWMR-6 sec. 264.35.

C. 50-FOOT BUFFER ZONE

I.I.1.b. At a minimum, these plans for the H-3 Flammable Storage Building shall indicate:

iii. The location of the storage unit in relation to the property boundary in order to determine if there is a 50-foot buffer zone, as required by HWMR-6, Pt. V, sec. 264.176.

Plate 3 is a site plan marked with the actual distances from the walls of the H-3 Building to the perimeter property fence. In every case, these distances exceed 50 feet.

D. DESIGN SPECIFICATIONS

I.I.1.b. At a minimum, these plans for the H-3 Flammable Storage Building shall indicate:

iv. The design specifications that address the general requirements for handling ignitable wastes, as required by local and federal fire codes and by HWMR-6, Pt. V, sec. 264.17.

The H-3 Flammable Storage Building was designed to conform to the requirements of the City of Albuquerque fire and building codes, which are the Uniform Fire and Building Codes, respectively. Section 79.204 of the fire code regulates the design of hazardous liquids storage warehouses like the H-3 Building. Chapter 9 of the building code details the requirements for Group H occupancies. Other chapters of these codes were adhered to in the detailed design of the various building components required by these codes.

Construction notes were provided in the design (Plate 2) to require contractor conformance to the city's building and fire codes. The city's Certificate of Occupancy (Plate 23) provides evidence that these codes were followed for both design and construction of the H-3 Building. Discussed below are the design features of the building addressed in the regulation quoted above.

D. DESIGN SPECIFICATIONS (Continued)

- 1) Prevention of Accidental Ignition or Reaction of Ignitable Wastes (HWMR-6, Pt. V, Sec. 264.17(a))

The building has the required 50 foot buffer from all property boundaries (Plate 3). It is also separated from the attached H-7 Return and Fill Shelter by a four-hour area separation wall which has the required 3-hour rollup door assembly (Plates 4 and 16); the two-hour roof/ceiling assembly (Plate 7) is a part of the required area separation between the H-3 and H-7 occupancies.

An explosion-proof electrical system has been provided for the H-3 Building (Plates 9 and 10) to prevent accidental ignition of hazardous wastes due to sparks.

An explosion-proof ventilator fan designed for continuous operation (Plates 4 and 17) has been provided to prevent the buildup of vapors which could cause a spontaneous ignition; outside air supply for this fan comes through the louver in the bottom half of the west entrance door (Plates 17 and 18). According to the contractor, the 90-minute battery pack installed on the north wall of the building (Plate 17) provides the emergency power to the ventilator fan in the event of power failure, as required by the city fire code.

To minimize the danger of a fire caused by radiant heat, the H-3 Building is windowless, has normally closed swinging and rollup doors, and its exterior is painted a light beige color to reflect sunlight (Plates 16 and 17).

D. DESIGN SPECIFICATIONS (Continued)2) Precautions to prevent extreme, violent, toxic, or uncontrolled reactions (HWMR-6, Pt. V, Sec. 264.17(b))

In addition to the safety features described above, a ceiling automatic sprinkler system has been provided to suppress fires within the warehouse (Plates 11, 12, and 20). The contractor states that the 90-minute battery pack mentioned above also furnishes emergency power to the sprinkler system in the event of power failure. Ten pound dry chemical fire extinguishers have been provided just inside both entrance doors to provide a backup to the automatic sprinkler system.

An emergency ventilator fan cutoff switch has been installed outside the west entrance door (Plates 4 and 17) to reduce the flow of oxygen into the building in the event of fire.

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* As-Built



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JOB NO. 91-141

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.

GENERAL NOTES

- WHERE CONFLICTS OCCUR BETWEEN THE CODES, REGULATIONS, INDUSTRY STANDARDS, AND MANUFACTURER'S RECOMMENDATIONS SPECIFIED FOR THIS PROJECT, THE MOST RESTRICTIVE PROVISIONS SHALL APPLY UNLESS OTHERWISE APPROVED IN WRITING BY SAFETY-KLEEN'S PROJECT MANAGER. WHERE CONFLICTS OCCUR IN THESE DRAWINGS BETWEEN DRAWINGS AND NOTES, NOTES SHALL GOVERN.
- ALL ITEMS REFERENCED BY A SAFETY-KLEEN PART NUMBER SHALL BE FURNISHED BY SAFETY-KLEEN AND INSTALLED BY CONTRACTOR.
- CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL LOCAL AND STATE PERMITS AND ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE BUILDING AND SAFETY CODES. ALL WORK SHALL BE PERFORMED IN A PROFESSIONAL AND TIMELY MANNER. SAFETY-KLEEN SHALL BE RESPONSIBLE FOR ALL ENVIRONMENTAL OPERATING PERMITS.
- EACH SUB-CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND NATIONAL CODES AND PERMITS OBTAINED BY OR UNDER THE DIRECTION OF THE CONTRACTOR.
- CERTIFICATE OF INSURANCE SHALL BE REQUIRED PRIOR TO COMMENCEMENT OF WORK (LIABILITY, WORKMAN'S COMPENSATION, ETC.).
- CONTRACTOR SHALL VISIT SITE TO VERIFY CONDITIONS TO BE CONSIDERED IN THE QUOTATION FOR WORK.
- ALL WORK IS TO BE COORDINATED WITH AND APPROVED BY SAFETY-KLEEN PROJECT MANAGER.
- SEE INDIVIDUAL DRAWINGS AND MASONRY NOTES SECTION FOR FIRE PROTECTION REQUIREMENTS.
- SEE DRAWING NO. 8003 FOR A LIST OF SAFETY-KLEEN DRAWINGS THAT ARE INCORPORATED INTO AND MADE A PART OF THIS DESIGN BY REFERENCE. SHOULD THESE DRAWINGS CONFLICT WITH SAFETY-KLEEN DRAWINGS, THESE DRAWINGS SHALL GOVERN.
- CONTRACTOR SHALL REPLACE OR REPAIR, AT NO ADDITIONAL COST, ANY WORK FOUND TO BE DEFECTIVE.
- THE OWNER RESERVES THE RIGHT TO MAKE ALL INSPECTIONS AND TESTS HE DEEMS NECESSARY, REGARDLESS OF WHETHER SPECIFIED ELSEWHERE. CONTRACTOR SHALL FURNISH ANY NECESSARY LABOR OR ACCESS TO ASSIST THE DESIGNATED TESTING AGENCY IN OBTAINING AND HANDLING SAMPLES AT THE PROJECT OR OTHER SOURCES OF MATERIALS.
- CONTRACTOR SHALL SUBMIT FOR APPROVAL MANUFACTURER'S CATALOG CUTS FOR THE FOLLOWING ITEMS: EXHAUST FANS, MAJOR ELECTRICAL SYSTEM COMPONENTS (SEE DRAWINGS 8000 AND 8001), STAIR HANDRAILS, ROOF TRUSSES, UNTELS, SWINGING DOORS AND HARDWARE, ROLLUP DOORS, ROOF PANELS, CONCRETE COATINGS, CRACK SEALANTS, CONCRETE MASONRY UNITS, SECONDARY CONTAINMENT PIPING, AND ALL SUBSTITUTES FOR MATERIALS SPECIFIED HEREIN AS "OR APPROVED EQUALS".
- IT IS THE INTENT OF THESE DOCUMENTS THAT THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, EQUIPMENT, TOOLS FOR THE COMPLETE INSTALLATION OF ALL WORK SHOWN ON THE PLANS AND/OR DESCRIBED HEREIN, INCLUDING ALL DEVICES, CONTROLS AND APPURTENANCES REQUIRED TO SET NEW SYSTEMS INTO OPERATION, EXCEPT AS NOTED AT NOTE 2 ABOVE.
- SHOULD CONDITIONS NECESSITATE ANY REARRANGEMENTS, SUBMIT SHOP DRAWINGS SHOWING THE CHANGES BEFORE PROCEEDING WITH THE WORK. IF SUCH CHANGES ARE APPROVED BY SAFETY-KLEEN, THEY SHALL BECOME A PART OF THE CONTRACT AFTER THEIR APPROVAL.

SITEWORK

- PREPARATION OF SUBGRADE
 - ALL VEGETATION, GRAVEL, TRASH AND DEBRIS IN THE AREA TO RECEIVE CONCRETE SHALL BE REMOVED.
 - THE CONTRACTOR SHALL REMOVE ANY MUCK AND SPONGY OR UNSTABLE MATERIALS WHICH WILL NOT CONSOLIDATE, AS DETERMINED BY THE OWNER, AND REFILL THE SPACE WITH ACCEPTABLE MATERIAL, COMPACTED AS DESCRIBED BELOW.
 - THE AREA TO RECEIVE CONCRETE SHALL BE ROUGH GRADED, AS CLOSE AS POSSIBLE, TO THE LINES AND GRADES SHOWN ON THE PLAN, ALLOWING FOR THICKNESS OF THE CONCRETE SLAB AND AGGREGATE BASE.
 - THE TOP 6" OF NATURAL GROUND AND CUT SECTIONS TO BE COMPACTED SHALL BE SCARIFIED, WETTED OR DRIED TO PRODUCE SUBGRADE WITHIN 2% OPTIMUM MOISTURE CONTENT, AND COMPACTED TO A DENSITY OF NOT LESS THAN 98% OF MAXIMUM LABORATORY DRY DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM D698 (STANDARD PROCTOR COMPACTION TEST).
 - ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR COMPACTED FILL. MINIMUM SOIL BEARING PRESSURE TO BE 2,500 PSF.
- COMPACTED FILLS AND BACKFILLS
 - FILL AND BACKFILL MATERIAL NEEDED TO BRING THE SUBGRADE UP TO THE NECESSARY CONTOURS SHALL BE A BANK-RUN SAND, OR OTHER SUITABLE MATERIAL, FREE FROM CLAY LUMPS, RUBBISH, ORGANIC MATERIAL, OR OTHER DELETERIOUS SUBSTANCES. NOT MORE THAN 10% BY WEIGHT SHALL PASS THE 200 MESH SIEVE. THE OWNER SHALL BE THE JUDGE OF THE SUITABILITY OR UNSUITABILITY OF MATERIALS FOR USE IN FILLS AND BACKFILLS. SUPPLIER'S LABORATORY ANALYSIS OF BACKFILL MATERIAL SHALL BE FURNISHED FOR OWNER'S APPROVAL.
 - FILL AND BACKFILL SHALL BE PLACED IN 6" LIFTS (MAX LOOSE MATERIAL THICKNESS), WETTED OR DRIED TO PRODUCE BACKFILL WITHIN 2% OPTIMUM MOISTURE CONTENT, AND COMPACTED TO A DENSITY OF NOT LESS THAN 95% OF STANDARD PROCTOR DENSITY (ASTM D698) FOR CONCRETE PAVING AREAS, AND A DENSITY OF NOT LESS THAN 98% FOR AREAS UNDER FLOOR SLABS.
 - SUBGRADE/FILL SHALL BE FINE GRADED TO PRODUCE THE DRAINAGE SHOWN ON THE PLAN.
 - CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXCAVATED MATERIAL NOT SUITED OR REQUIRED FOR BACKFILL.

CONCRETE CONSTRUCTION

- MATERIALS, MIXING, PLACEMENT, FINISHING TOLERANCES AND ALL OTHER UNSPECIFIED DETAILS SHALL BE IN ACCORDANCE WITH ACI 318 - 88.
- THE MOISTURE BARRIER SHALL BE PLACED JUST PRIOR TO THE INSTALLATION OF THE REBAR. MOISTURE BARRIER SHALL BE 20 MIL POLYETHYLENE SHEETING. OVERLAP SHEETS AT JOINTS A MINIMUM OF 2 FEET AND TURN UP AT EDGES 2" TAKE CARE TO PREVENT DAMAGE TO BARRIER DURING INSTALLATION OF REBAR AND CONCRETE.
- REINFORCING STEEL SHALL BE ASTM A-615, GRADE 60. BAR SUPPORTS SHALL BE PLASTIC OR GALVANIZED CHAIRS. SPICES COVERAGE, PLACING AND OTHER DETAILS SHALL BE IN ACCORDANCE WITH ACI 318 - 88.
- FOR CONCRETE PAVING, CONCRETE SHALL BE A MINIMUM OF 3000 PSI AT 28 DAYS. FOR STRUCTURAL CONCRETE, CONCRETE SHALL BE A MINIMUM OF 4000 PSI AT 28 DAYS. CONCRETE TO RECEIVE COATING MUST NOT CONTAIN ANY ACCELERATORS OR CURING COMPOUNDS. COARSE AGGREGATE SHALL CONFORM TO #57, ASTM C-33.
- CURING OF FLOOR SLAB SHALL BE BY PONDING OR CONTINUOUS SPRINKLING, OR BY THE APPLICATION OF ABSORPTIVE MATS OR FABRIC KEPT CONTINUOUSLY WET. CURING TIME SHALL BE A MINIMUM OF 4 DAYS.
- CONCRETE FLOORS SHALL HAVE A CLASS 'A' FLOATED FINISH AND "PLAINNESS OF SURFACE" SHALL BE CHECKED AND CORRECTED AS NECESSARY.
- AT FLOOR SLAB/WALLS, EXPANSION JOINT FILLER SHALL BE FOR THE FULL DEPTH OF THE CONCRETE. NO JOINT SEALER IS TO BE USED, U.N.D. PREMOLDED EXPANSION JOINT FILLER SHALL CONFORM TO ONE OF THE FOLLOWING:
 - SPECIFICATIONS FOR PREFORMED EXPANSION JOINT FILLERS FOR CONCRETE PAVING AND STRUCTURAL CONSTRUCTION (NONEXTRUDING AND RESILIENT BITUMINOUS TYPES) (ASTM D1751).
 - SPECIFICATIONS FOR PREMOLDED EXPANSION JOINT FILLERS FOR CONCRETE PAVING AND STRUCTURAL CONSTRUCTION (NONEXTRUDING AND RESILIENT NONBITUMINOUS TYPES) (ASTM D1752).

CONCRETE COATING

- GENERAL:
- ALL GUIDELINES AND INFORMATION AS PRESENTED IN THE MATERIAL'S TECHNICAL BULLETIN AND ALL MANUFACTURER'S RECOMMENDATIONS CONCERNING APPLICATION TECHNIQUES SHALL BE STRICTLY FOLLOWED.
 - THE CONTRACTOR SHALL SUBMIT A WRITTEN APPLICATION PLAN DESCRIBING, IN DETAIL, THE PROCEDURES, METHODS AND MATERIALS TO BE USED IN PREPARING THE CONCRETE SURFACES AND APPLYING THE COATING.

SURFACE PREPARATION:

- ALL SURFACES TO BE COATED SHALL BE ABRASIVE BLASTED (OTHER METHODS, SUCH AS ACID ETCHING AND NEUTRALIZING MAY BE USED, CONSULT WITH COATING REPRESENTATIVE) TO REMOVE ALL SURFACE LANTANCE, DIRT, LOOSE OR UNSOUND MATERIAL, OIL, GREASE, OR OTHER CONTAMINANTS.
- ALL CRACKS AND CAVITIES SHALL BE CHIPPED OR GROUNDED SO THAT THEIR SIDES FORM APPROXIMATELY A 45-DEGREE ANGLE TO THE EXPOSED SURFACE. CHIPPED OR GROUNDED AREAS SHALL BE RE-BLASTED TO REMOVE ANY NEWLY EXPOSED UNSOUND MATERIAL. THE FINISHED CONCRETE SURFACE SHALL BE SMOOTHER THAN THE INTENDED APPLICATION THICKNESS OF THE COATING.
- ALL JOINT CRACKS, CAVITIES AND Voids IN CONCRETE SHALL BE FILLED USING AN APPROVED EPOXY PUTTY, SUCH AS GULF COAST PAINT CF-620, OR APPROVED EQUAL. ALL MANUFACTURER'S RECOMMENDATIONS CONCERNING SURFACE PREPARATION, USE OF PRIMER, TEMPERATURE CONSIDERATIONS, WAXING AND APPLICATION, ETC. SHALL BE STRICTLY FOLLOWED. AT TEMPERATURE CRACKS, WORK PUTTY APPROXIMATELY 1/2" INTO THE CRACK PRIOR TO FILLING 45-DEGREE ANGLE VOID. IF ANY CRACKS GREATER THAN 1/8" WIDE ARE FOUND, OWNER SHALL BE CONSULTED AS TO METHOD OF REPAIR PRIOR TO PROCEEDING WITH COATING APPLICATION.
- ALL WELDS SHOULD BE GROUNDED TO REMOVE ALL EXCESS SLAG, SHARP EDGES, LAPS, UNDERCUTS AND OTHER SURFACE IRREGULARITIES. RELATIVELY SMOOTH, RIPPLE FINISHED WELDS ARE ACCEPTABLE.
- TO PREVENT OXIDATION AND RUST, BLAST CLEAN ONLY AS MUCH METAL AS WILL BE COATED IN THE SAME DAY. THE CONTRACTOR SHALL MAKE EVERY REASONABLE EFFORT TO CLEAN THE BACK OF METAL ITEMS EMBEDDED IN CONCRETE (WHERE THERE ARE Voids TO RESTORE). HOWEVER, DUE TO WORKING ROOM LIMITATIONS, A "NEAR WHITE METAL FINISH" SHALL NOT BE REQUIRED ON THE BACK OF EMBEDDED ITEMS.
- IT IS THE INTENTION OF THESE SPECIFICATIONS TO PROVIDE AN EVEN, STRAIGHT SURFACE, FREE FROM SURFACE DEFECTS AND IRREGULARITIES, FOR THE APPLICATION OF THE EPOXY COATING.

APPLICATION:

- NEW CONCRETE SHALL BE IN PLACE FOR A MINIMUM OF 45 DAYS (OR PER COATING MANUFACTURER'S RECOMMENDATIONS, IF LONGER) PRIOR TO PLACEMENT OF COATING.
- BASE COAT SHALL BE DUPONT 25-P EPOXY SHALE GRAY (OR APPROVED EQUAL), 5 MILS D.F.T. SURFACE COAT SHALL BE DUPONT IRON SHALE GRAY (OR APPROVED EQUAL), 2 MILS D.F.T. THE SURFACE COAT SHALL BE APPLIED WITHIN 48 HOURS OF APPLICATION OF BASE COAT.
- WHERE CALLED FOR ON THE DRAWINGS, SCRIM CLOTH SHALL BE APPLIED BETWEEN COATS AND SHALL CONTINUE OVER THE TOP WITH THE COATING, 2", WHERE NEEDED, INSTALL MORE THAN ONE WIDTH OF CLOTH TO COVER CRACK WHILE MAINTAINING VERTICAL ALIGNMENT OF CLOTH.

PAINTING

- MASONRY BLOCK WALLS: ONE COAT S.W. BLOCK FILLER, TWO COATS S.W. OIL BASE ENAMEL. COLOR - LIGHT TAN TO MATCH EXISTING BUILDINGS ON SITE.
- METAL DOORS AND FRAMES AND ROOF FLASHING: TWO COATS S.W. OIL ENAMEL. COLOR TO MATCH TRIM ON EXISTING BUILDINGS ON SITE.
- ALL MISCELLANEOUS STEEL ITEMS: ONE COAT S.W. STEEL PRIMER, TWO COATS S.W. INDUSTRIAL ENAMEL. FACTORY COATS MAY BE TOUCHED-UP.

INSTALLATION OF UNDERGROUND LIQUID STORAGE SYSTEMS

- THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS APPLICABLE TO THIS PROJECT, INCLUDING THE STATE OF NEW MEXICO REGULATIONS FOR UNDERGROUND STORAGE TANKS. TANK INSTALLER MUST BE A CERTIFIED INSTALLER UNDER PART XIV OF THE LATTER REGULATIONS.
- THE CONTRACTOR SHALL SUBMIT A RECOMMENDED SCHEDULE OF INSPECTIONS AND SYSTEM TESTS BEFORE BEGINNING THIS WORK.
- SOLVENT STORAGE TANKS TO BE FURNISHED BY SAFETY-KLEEN AND INSTALLED BY CONTRACTOR. THESE 12,000 GALLON GLASTEL TANKS, MANUFACTURED BY WOODROW WELDING CO., INC. NEWARK, OR, ARE DOUBLE-WALL FRP-CLAD CARBON STEEL AND ARE FABRICATED TO THE STANDARDS OF UL-58 "STEEL UNDERGROUND TANKS FOR FLAMMABLE AND COMBUSTIBLE LIQUIDS, SEE 5-K DRAWINGS STD-1009, 1010, AND 1011. UNLESS OTHERWISE NOTED, ALL TANK SYSTEM COMPONENTS SHOWN ON THESE DRAWINGS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
- THE FIRE WATER CONTAINMENT TANK SHALL BE SINGLE WALL CARBON STEEL CLAD WITH DIELECTRIC COATING, WITH SACRIFICIAL ANODES, MANUFACTURED TO THE STANDARDS OF ST-113 OF THE STEEL TANK INSTITUTE, AND SHALL HAVE A MINIMUM CAPACITY OF 8,000 GALLONS. TANK SHALL HAVE A 24" MANWAY AND FOUR HOZDLES AS FOLLOWS: ONE 3" FOR VENT PIPE, ONE FOR 6" FOR FILL LINE, AND TWO 4" BUNG SPARES. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL SHOP DRAWINGS OF THE PROPOSED TANK AND MANUFACTURER'S DATA DOCUMENTING ITS FABRICATION AND THE REQUIRED MANUFACTURING AND PRODUCTION TESTS. CONTRACTOR SHALL CHECK SACRIFICIAL ANODES FOR PROPER CONNECTIONS PRIOR TO INSTALLATION.
- CONTRACTOR MAY, WITH SAFETY-KLEEN'S CONSENT, SUBSTITUTE A FIREWATER CONTAINMENT TANK CONSTRUCTED OF A MATERIAL OTHER THAN CARBON STEEL, PROVIDED SAID ALTERNATE TANK IS MANUFACTURED TO A RECOGNIZED NATIONAL STANDARD AND THE CONTRACTOR SUBMITS DOCUMENTATION OF ITS MANUFACTURE, MANUFACTURING AND PRODUCTION TESTING, INTERNAL COMPATIBILITY WITH THE POTENTIAL FIREWATER CONTAINMENTS, AND PROTECTION AGAINST BUOYANCY AND EXTERNAL CORROSION.
- FOR TANK INSTALLATION, CONTRACTOR SHALL FOLLOW ARTICLE 73, DIVISION VI OF THE UNIFORM FIRE CODE, 1991 EDITION; PD/PP100-90 "RECOMMENDED PRACTICES FOR INSTALLATION OF UNDERGROUND LIQUID STORAGE SYSTEMS", AND MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION GUIDANCE NOT COVERED IN THE ABOVE STANDARDS OR THESE CONSTRUCTION DOCUMENTS.
- THE CARBON STEEL TANKS ARE SHIPPED BY THE MANUFACTURER COATED WITH A NON-METALLIC COATING SO THAT NO METAL IS EXPOSED AND TANKS ARE ISOLATED FROM ELECTRICAL CURRENTS. CONTRACTOR SHALL NOT INSTALL THESE TANKS UNTIL AN INITIAL INSPECTION OF THIS COATING HAS BEEN CONDUCTED. SPECIAL HANDLING OF THESE TANKS MUST BE OBSERVED BY THE CONTRACTOR DURING INSTALLATION TO INSURE THAT THE COATING IS NOT DAMAGED.
- AFTER BEING INSTALLED BUT BEFORE BEING COVERED, TANKS SHALL PASS THE TIGHTNESS TEST REQUIRED BY UFC-91, SECTION 79.605 OR MANUFACTURER'S RECOMMENDATIONS, IF STRICTER.
- UPON COMPLETION OF INSTALLATION, TANK OPERATIONAL SYSTEM TESTS SHALL BE CONDUCTED BY THE CONTRACTOR PER RECOMMENDATIONS OF MANUFACTURERS OF TANKS, PUMPS, HIGH LEVEL ALARM SYSTEM, LEAK DETECTION SYSTEM, AND OTHER TANK SYSTEM COMPONENTS.

MECHANICAL

- CLEAN AND USED SOLVENT STORAGE TANKS TO BE PIPED AND INSTALLED PER SAFETY-KLEEN STANDARD DRAWINGS STD-1009, 1010 AND 1011 UNLESS OTHERWISE NOTED. SWING JOINTS AS SHOWN ON STANDARD DRAWINGS SHALL NOT BE PERMITTED. SECONDARY CONTAINMENT PIPING SHALL BE FURNISHED FOR SOLVENT PIPING OUTSIDE OF OTHER SECONDARY CONTAINMENT AREAS. S/C PIPING AND FITTINGS SHALL BE THAT MANUFACTURED BY TOTAL CONTAINMENT, INC. EXTON, PA. S/C PIPING SHALL SLOPE TOWARD THE TANKS AS SPECIFIED ON DRAWING STD-1009. BEFORE BEING COVERED, SECONDARY CONTAINMENT PIPING SHALL PASS THE TIGHTNESS TEST REQUIRED BY ARTICLE 79.708, UFC-91.
- USED SOLVENT TRANSFER PUMP TO BE PIPED AND INSTALLED PER SAFETY-KLEEN STANDARD DRAWING #011150 UNLESS OTHERWISE NOTED.
- PARTICULAR ATTENTION IS CALLED TO THE INSTALLATION PROCEDURES SUPPLIED BY THE MANUFACTURERS OF SYSTEM COMPONENTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING ALL NEW MECHANICAL SYSTEMS WHERE A TESTING PROCEDURE HAS NOT BEEN SPECIFIED HEREIN, FOLLOW MANUFACTURER'S RECOMMENDATIONS.
- AUTOMATIC SPRINKLER SYSTEM IN H-3 BUILDING. SEE NOTE 3, DRAWING 8000.
- EXHAUST FANS TO BE INSTALLED WITH THE BOTTOM EDGE 12" ABOVE BUILDING FLOORS.

ELECTRICAL

SEE DRAWING NOS. 8000 & 8001.

REINFORCED MASONRY

- REINFORCED MASONRY CONSTRUCTION SHALL FOLLOW THE REQUIREMENTS OF UBC-91 CHAPTER 24. COMPRESSIVE STRENGTH OF REINFORCED MASONRY ASSEMBLAGE SHALL BE A MINIMUM OF 2,000 PSI AT 28 DAYS. ALL MATERIALS USED SHALL CONFORM TO THE STANDARDS OF SECTIONS 2402. CONSTRUCTION PRACTICES SHALL COMPLY WITH SECTION 2404. SPECIAL ATTENTION SHALL BE PAID TO SECTION 2404(c) FOR CONSTRUCTION WHEN AIR TEMPERATURE IS BELOW 40° F.
- THE CONTRACTOR SHALL CONDUCT THE MASONRY PRISM TESTING REQUIRED BY SECTION 2405(c) OR, IN LIEU OF SUCH TESTING, SHALL PROVIDE FOR SAFETY-KLEEN REVIEW, PRIOR TO DELIVERY OF THE MATERIALS TO THE JOB SITE, LETTERS FROM SUPPLIERS OF EACH OF THE FOLLOWING MATERIALS CERTIFYING THAT THE MATERIALS MEET THE FOLLOWING QUALITY AND STRENGTH REQUIREMENTS:
 - CONCRETE MASONRY UNITS SHALL SATISFY ASTM C-90 AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,800 PSI.
 - GROUT SHALL SATISFY UBC STANDARD 24-22 AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,800 PSI.
 - DEFORMED BARS SHALL BE ASTM A-615 GRADE 60, HAVING A MINIMUM ALLOWABLE TENSILE STRESS OF 24,000 PSI.
 - JOINT REINFORCEMENT SHALL SATISFY ASTM A-62 AND SHALL HAVE A MINIMUM ALLOWABLE TENSILE STRESS OF 30,000 PSI.
 - METAL TIES AND ANCHORS SHALL HAVE A MINIMUM ALLOWABLE TENSILE STRESS OF 30,000 PSI AND SHALL HAVE A CORROSION-RESISTANT COATING.
- MORTAR SHALL BE TYPE M OR S. MORTAR AND GROUT PROPORTIONS AND PROPERTIES SHALL CONFORM TO SECTION 2403.
- REINFORCEMENT SHALL CONFORM TO THE SPECIAL REQUIREMENTS OF SECTION 2407(h) FOR SEISMIC ZONES 1 AND 2.
- VERTICAL REINFORCEMENT SHALL BE GRADE 60 DEFORMED BARS, LOCATED IN GROUTED CELLS AS FOLLOWS:
 - ONE NO. 8 AT 24 INCHES ON CENTER, CONTINUOUS BETWEEN FOUNDATION WALL AND TOP OF WALL, THROUGHOUT THE LENGTH OF ALL WALLS. EACH BAR SHALL BE EMBEDDED A MINIMUM OF 24 INCHES INTO THE FOUNDATION WALLS AND SHALL PROJECT A MINIMUM OF 54 INCHES ABOVE THE BASE OF THE WALL BEFORE BEING SPLICED. LAP SPICES SHALL HAVE A MINIMUM LENGTH OF 47 INCHES. ALL VERTICAL BARS SHALL BE HELD IN-PLACE BY GALVANIZED BAR POSITIONERS AT ENDS AND MID-LENGTHS OF BARS.
 - INCREASE BAR SIZE TO NO. 8 IN MID-REGION OF EAST AND WEST WALLS (FIVE FEET EACH SIDE OF CENTERLINE). OTHER DETAILS OF REINFORCEMENT TO BE THE SAME AS NOTE A.
 - ONE NO. 4 AT BOTH ENDS OF EACH WALL AND AT BOTH SIDES OF EACH OPENING, EXTENDING, WHERE APPROPRIATE, 24 INCHES PAST THE OPENING.
 - EACH BAR SHALL BE PLACED AT MID-DEPTH OF THE WALL ±1/2 INCH.
 - EACH BAR SHALL BE PLACED ±1 INCH LONGITUDINALLY IN THE WALL.
- HORIZONTAL REINFORCEMENT SHALL BE:
 - TWO NO. 4 GRADE 60 DEFORMED BARS IN GROUTED BOND BEAM AT TOP OF WALLS. BOND BEAM SHALL BE CONTINUOUS AROUND THE PERIMETER OF THE BUILDINGS OR BETWEEN SUPPORTS. LAP SPICES SHALL HAVE A MINIMUM LENGTH OF 27 INCHES. ALL HORIZONTAL BARS SHALL BE HELD IN-PLACE BY GALVANIZED BAR POSITIONERS AT ENDS AND MID-LENGTHS OF BARS.
 - NO. 9 CAL. JOINT REINFORCEMENT SPACED AT 18 INCHES ON VERTICAL CENTERS. LAP SPICES SHALL HAVE A MINIMUM LENGTH OF 12 INCHES.
 - ONE NO. 4 GRADE 60 DEFORMED BAR AT THE TOPS OF ALL OPENINGS AND AT THE BOTTOM OF EXHAUST FAN OPENINGS. THESE BARS SHALL EXTEND, WHERE APPROPRIATE, 24 INCHES PAST THE OPENING.
- HORIZONTAL REINFORCEMENT TERMINATING NEAR CORNERS OF WALLS SHALL EXTEND A MINIMUM OF 24 INCHES AROUND THE CORNER.
- INSTALL CONTROL JOINT AT SE CORNER OF WAREHOUSE AT R/F SHELTER. SEE DRAWING 7001.

PLATE 2

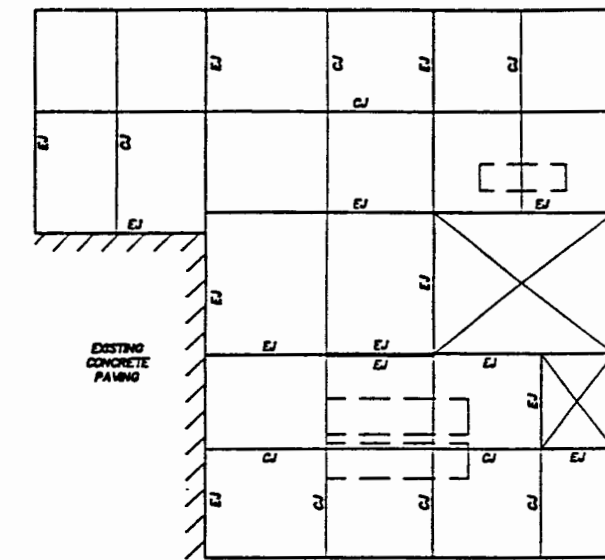
TITLE						NOTES & SPECIFICATIONS					
01	REINFORCED MASONRY NOTES, MISC. AS NOTED	JFC	RC3	JMC	11/15/91	SAFETY-KLEEN CORP. 177 DE WAREHOUSE BLVD., ALBUQUERQUE, NM 87102-0001					
0	RELEASED FOR REGULATORY REVIEW & RECORD	JFC	RC3	JMC	11/15/91	SCALE	BY	CHKD	P.L. APPR	OP. APPR	DATE
NO.	DESCRIPTION	BY	CHK	APPR	DATE	ALBUQUERQUE, NM		700801-0001-01			
REVISIONS											

GENERAL NOTES

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NOTES:

- 1) NEW PERIMETER FENCE IS TO BE 6 FT. - 9 GAUGE GALVANIZED CHAIN LINK W/ 3 STRANDS OF BARBED WIRE. LINE POST - 2" O.D. SS302, TOP RAIL - 1 1/2" O.D. SS302, TERMINAL AND END POST - 3" O.D. SS40. GATE POST - 4" O.D. SS40. PROVIDE BOTTOM TENSION WIRE. POST TO BE SET 24" IN CONCRETE. MAXIMUM SPACING OF LINE POSTS TO BE 10 FT. C.C. VERIFY LAYOUT WITH PROJECT MANAGER.
- 2) CONCRETE PAVEMENT: (APPROX. 1300 SY)
3000 PSI CONCRETE @ 28 DAYS.
8" CONCRETE SLAB WITH 6 X 6 X #6 WWF OVER 6" COMPACTED AGGREGATE BASE OVER COMPACTED SUBBASE. PROVIDE CONTROL/EXPANSION JOINTS AS SHOWN BELOW. SUB-GRADE AND FINAL GRADE IS THE RESPONSIBILITY OF THIS CONTRACTOR. VERIFY GRADES TO NATURAL DRAINAGE WITH PROJECT MANAGER. REF. SK DWG. D11322, DETAIL C2 FOR FURTHER DETAILS.

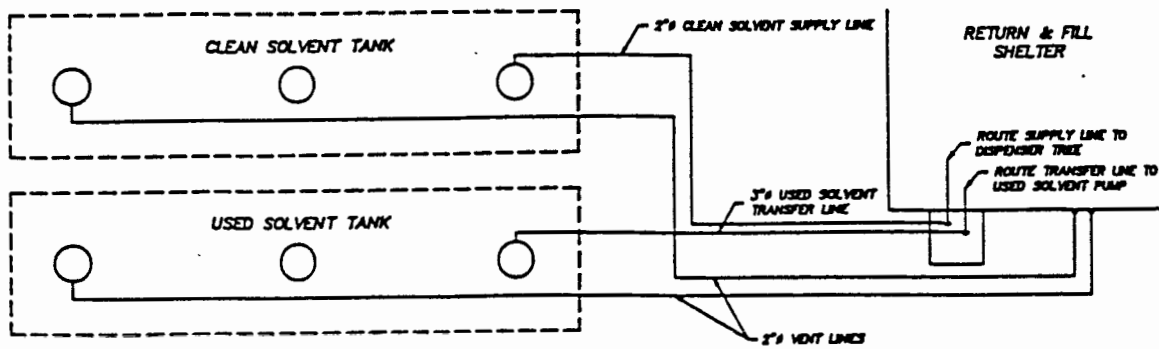
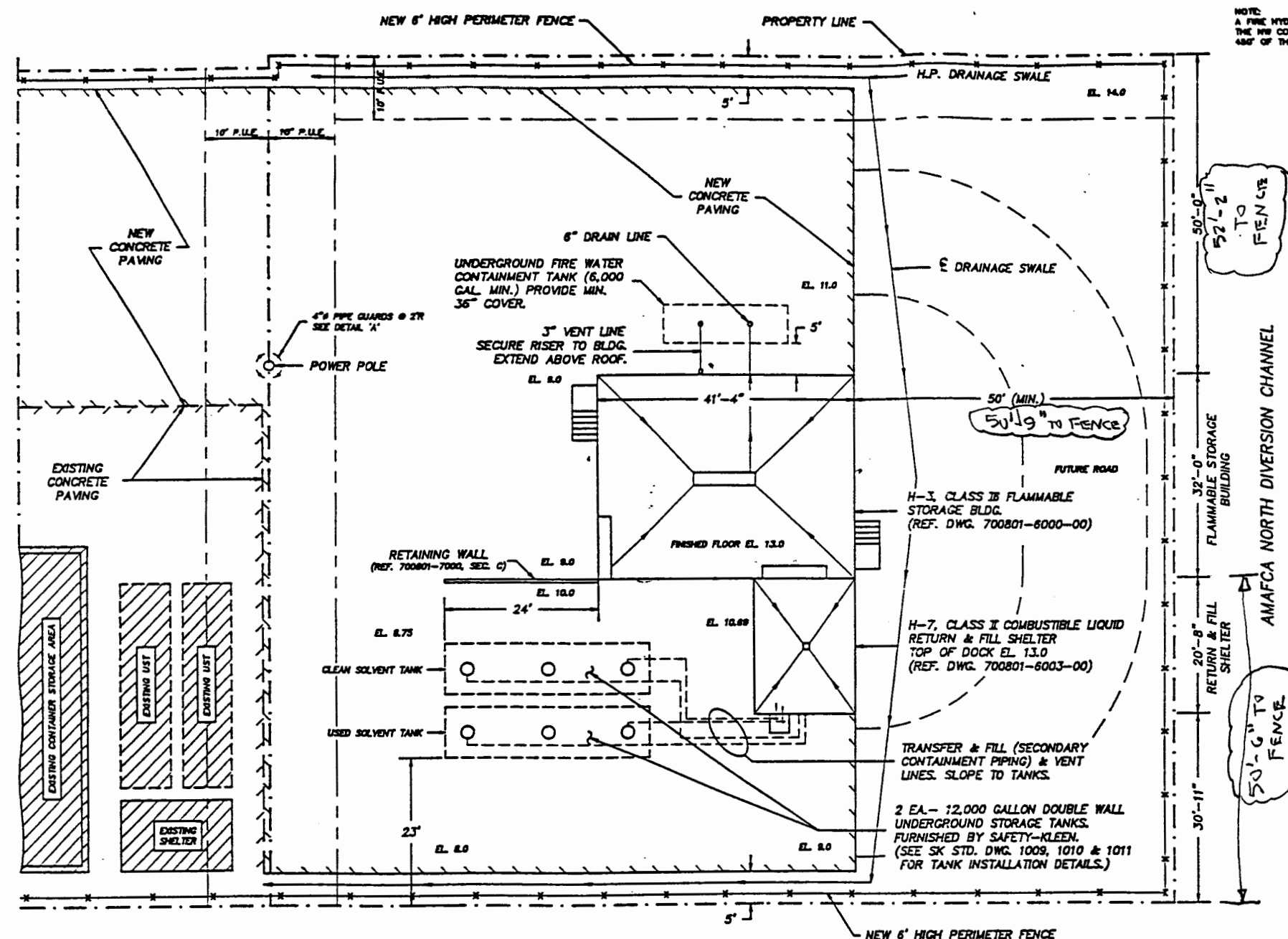


CONCRETE PAVING JOINT LAYOUT

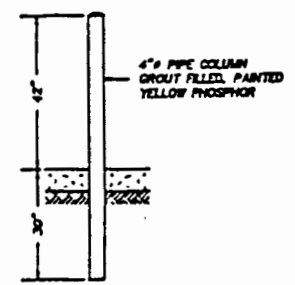
1" = 20'

- EJ - EXPANSION JOINT FOR EXPANSION JOINTS AT BUILDINGS, PROVIDE 1/2" PREFORMED EXPANSION JOINT MATERIAL AND JOINT SEALER. FOR EXPANSION JOINTS IN PAVING, PROVIDE 1/2" PREFORMED EXPANSION JOINT MATERIAL, JOINT SEALER AND #4 SMOOTH DOWELS AT 24" CENTERS. COAT ONE END OF DOWELS WITH A NONBONDING AGENT.
- CJ - CONTROL JOINT PROVIDE 1/4" WIDE X 1" DEEP SAW CUT, FILL WITH JOINT SEALER.

NOTE:
A FIRE HYDRANT IS LOCATED APPROX. 30' FROM THE NW CORNER OF THE PROPERTY AND IS WITHIN 450' OF THE FURTHEST POINT OF THE STORAGE BLDG.



PIPING SCHEMATIC



PIPE GUARD DETAIL 'A'
4 REQ.

NOTE:

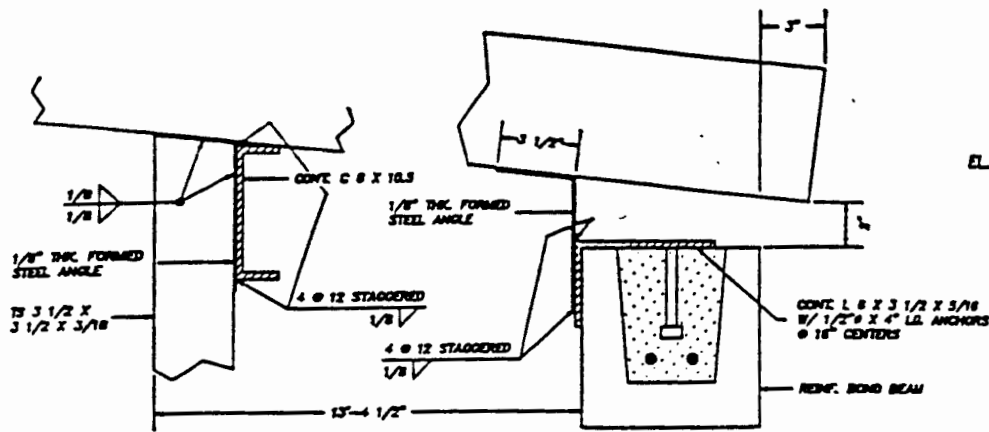
- H-3 AND H-7 BUILDINGS TO BE TYPE V-M CONSTRUCTION (UBC-91 TABLES 5-A THRU 5-D, 9-C AND 17-A), EXCEPT FOR THE FOLLOWING:
- 1. COMMON WALL BETWEEN H-3 AND H-7 BUILDINGS TO BE 4 HOUR AREA SEPARATION WALL WITH 3 HOUR OPENING. (UBC-91 503(f) AND 901(g))
- 2. ROOF/CEILING ASSEMBLY OF H-3 BUILDING TO BE 2 HOUR RATED. (UBC-91 503(f), EXCEPTION 1.)

PLATE 3

TITLE										
PARTIAL SITE PLAN										
SAFETY-KLEEN CORP. 777 DE WASH ROAD, ALBU, LAMES 0822 PHONE 760-477-6400										
0	RELEASED FOR REGULATORY REVIEW & BIDDING	JFB	RCE	JWC	H/SLM	SCALE 1" = 10'	BY J.F.B.	CHKD	P.L. APPR	DATE 10/25/91
NO.	DESCRIPTION	BY	CHK	APPR	DATE	ALBUQUERQUE, NM		STD-090-REV NO.	SH. 3 OF 6	
								700801-0005-00		

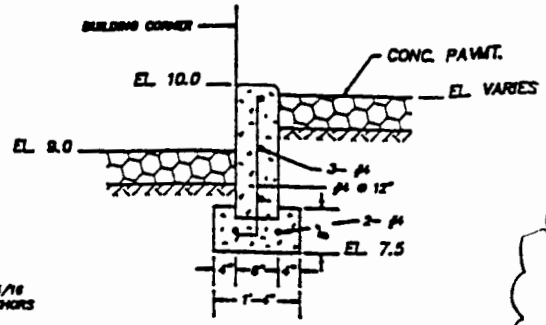
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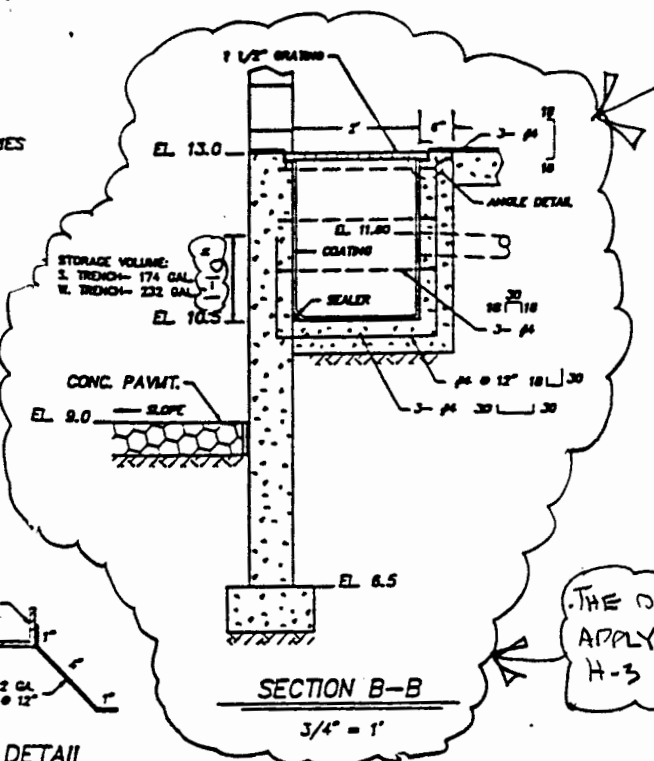


DETAIL 1
3/4" = 1'

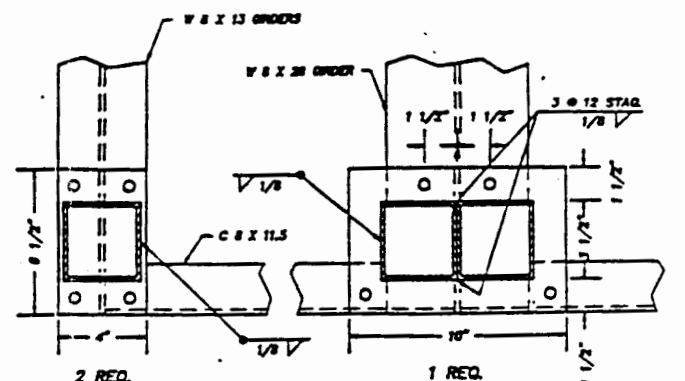
DETAIL 2
3/4" = 1'



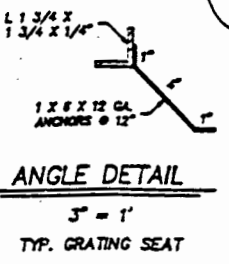
SECTION 'C'
3/4" = 1'
RETAINING WALL SECTION



SECTION B-B
3/4" = 1'



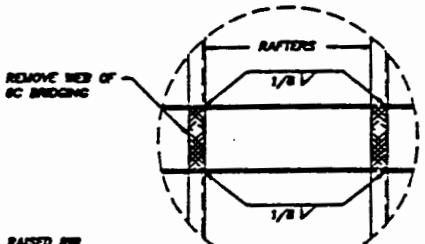
TS COLUMN BASE PLATES
3/4" = 1'
TS 3 1/2 X 3 1/2 X 3/16"
3/16" PLATE
1/2" BOLTS, OR WELDED



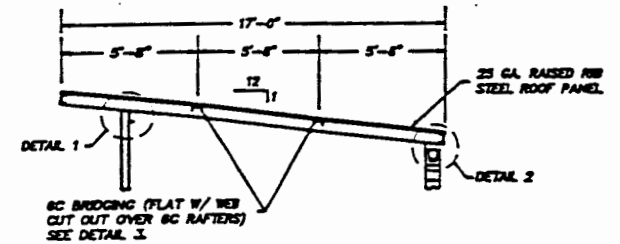
ANGLE DETAIL
3/4" = 1'
TYP. GRATING SEAT

SEE PLATE 2

THE DETAILS APPLY TO THE H-3 BUILDING

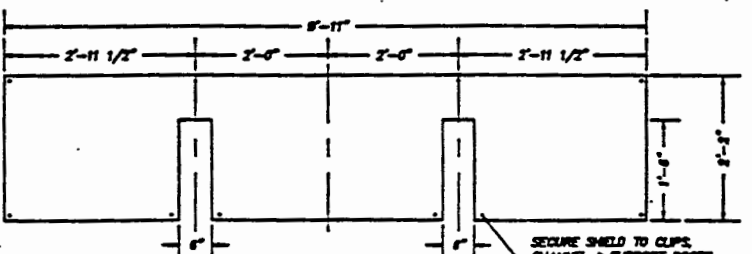


DETAIL 3
1 1/2" = 1'

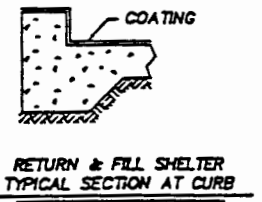


SECTION D-D
1/4" = 1'

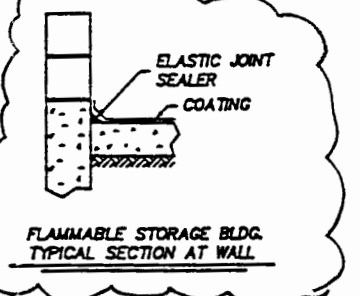
INSTALL MACHINE SCREWS & OTHER ATTACHMENTS AS NEEDED TO PROVIDE A COMPLETE, SECURE ROOF SYSTEM.



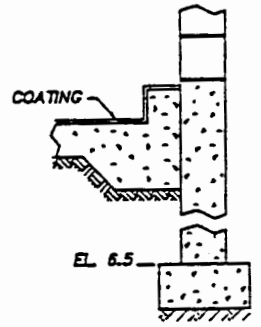
SECURITY WEATHER SHIELD
2 REQ.
25 GA. GALV. (& PAINTED) SHEET METAL



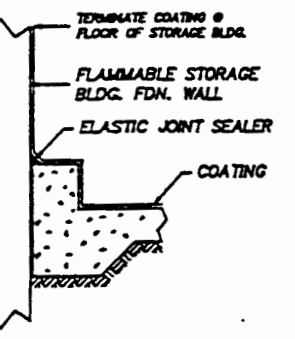
RETURN & FILL SHELTER
TYPICAL SECTION AT CURB



FLAMMABLE STORAGE BLDG.
TYPICAL SECTION AT WALL



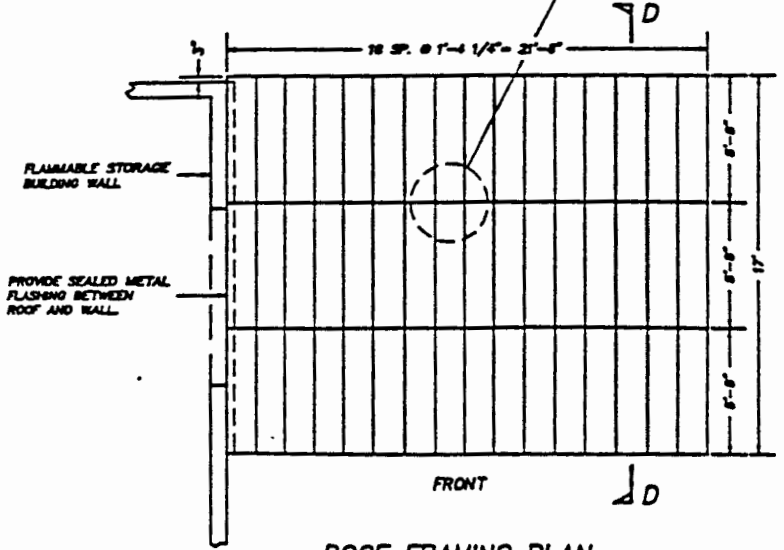
RETURN & FILL SHELTER
TYPICAL SECTION AT WALL



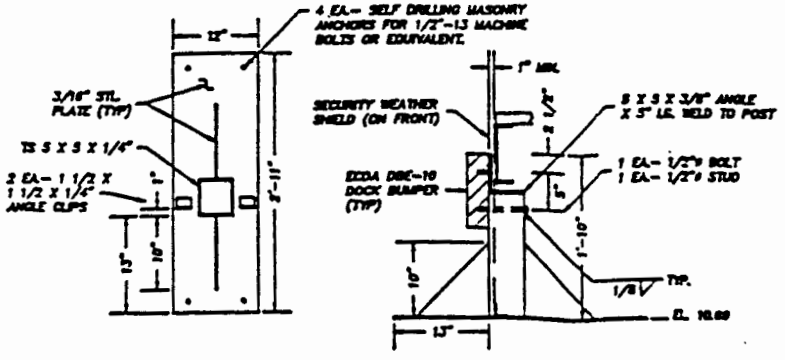
TYPICAL COATING DETAILS
N.T.S.
SEE DWG. NO. 0001 FOR SPECS. AND DETAILS

RETURN & FILL SHELTER
(REF. SECTION 'B', DWG. 6003)

MARKED BY RCS DWG 4/9/92 SITE VISIT



ROOF FRAMING PLAN
RETURN & FILL SHELTER
1/4" = 1'
ALL MEMBERS ARE 6" X 1 1/2" X 18 GA. COLD ROLLED CHANNEL

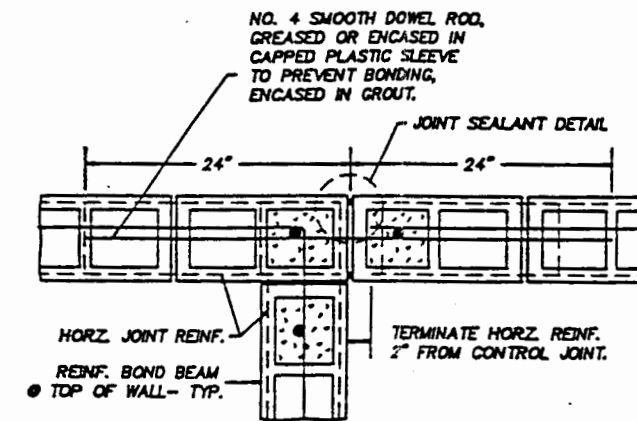


TYP. TRUCK BUMPER POST
1" = 1'
4 REQ.

MISC. STRUCTURAL DETAILS									
SAFETY-KLEEN CORP.									
NO.	DESCRIPTION	BY	CHK	APPR	DATE	SCALE	BY	CHK	DATE
1	ADDED DETAIL 3	JFC	NCB	JFC	11/14/91				
2	RELEASED FOR REGULATORY REVIEW & BIDDING	JFC	NCB	JFC	11/14/91				
REVISIONS						ALBUQUERQUE, NM 700801-7000-01			

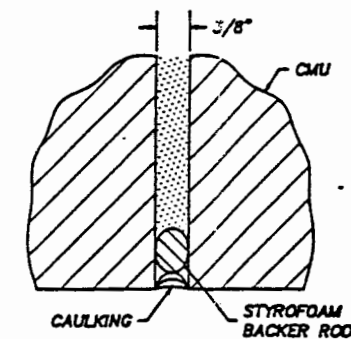
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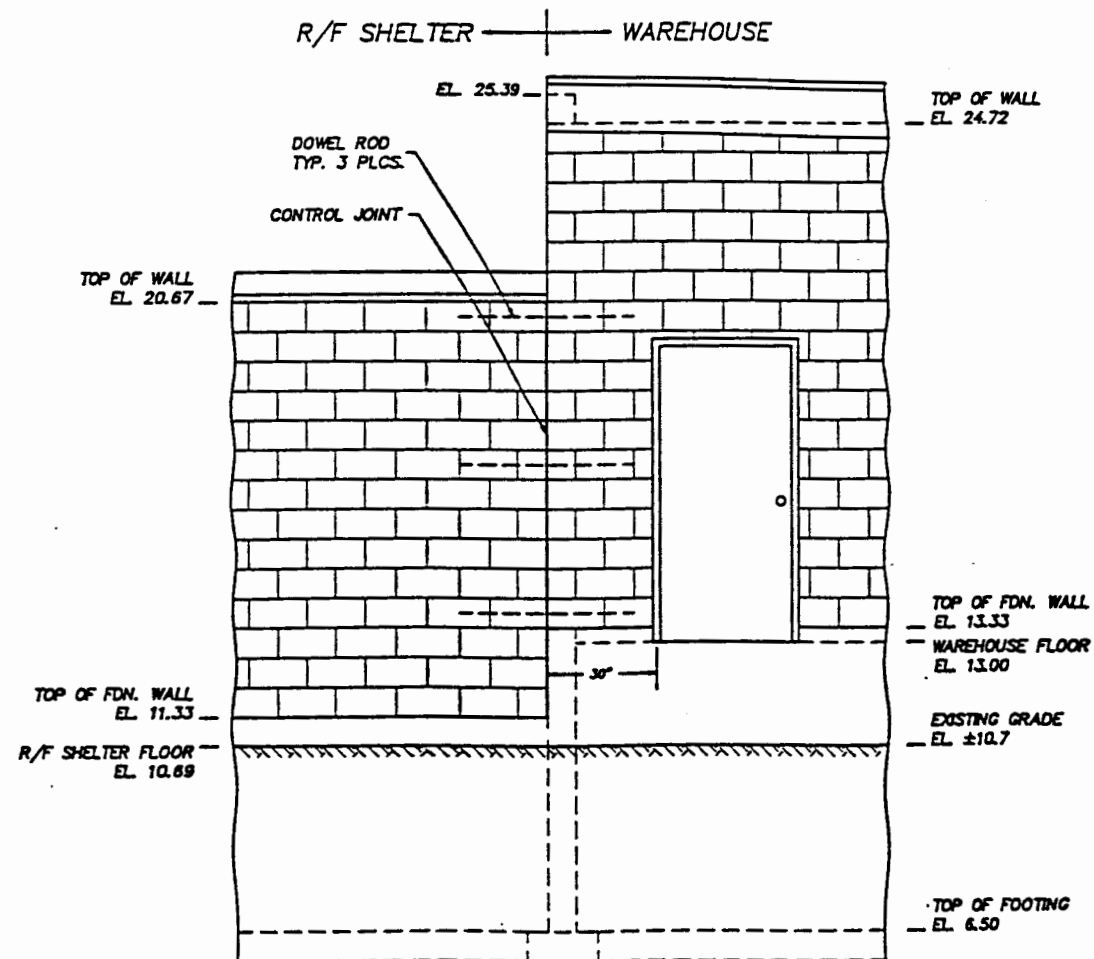
TYPICAL SECTION ● CONTROL JOINT

1 1/2" = 1'



JOINT SEALANT DETAIL

FULL SCALE



PARTIAL EAST ELEVATION

1/2" = 1'
(LANDING AND STAIRS NOT SHOWN)

PLATE 6

										TITLE	
										MISC. MASONRY DETAILS	
										SAFETY-KLEEN CORP. <small>777 8th Street Road, El Paso, Alaska 99613 Phone 708-647-9440</small>	
RELEASED FOR INDOOR REVIEW										SCALE	DATE
IND. DESCRIPTION										NOTED	11/13/91
BY										DATE	
APPR										DATE	
REVISIONS										ALBUQUERQUE, NM	700801-7001-00