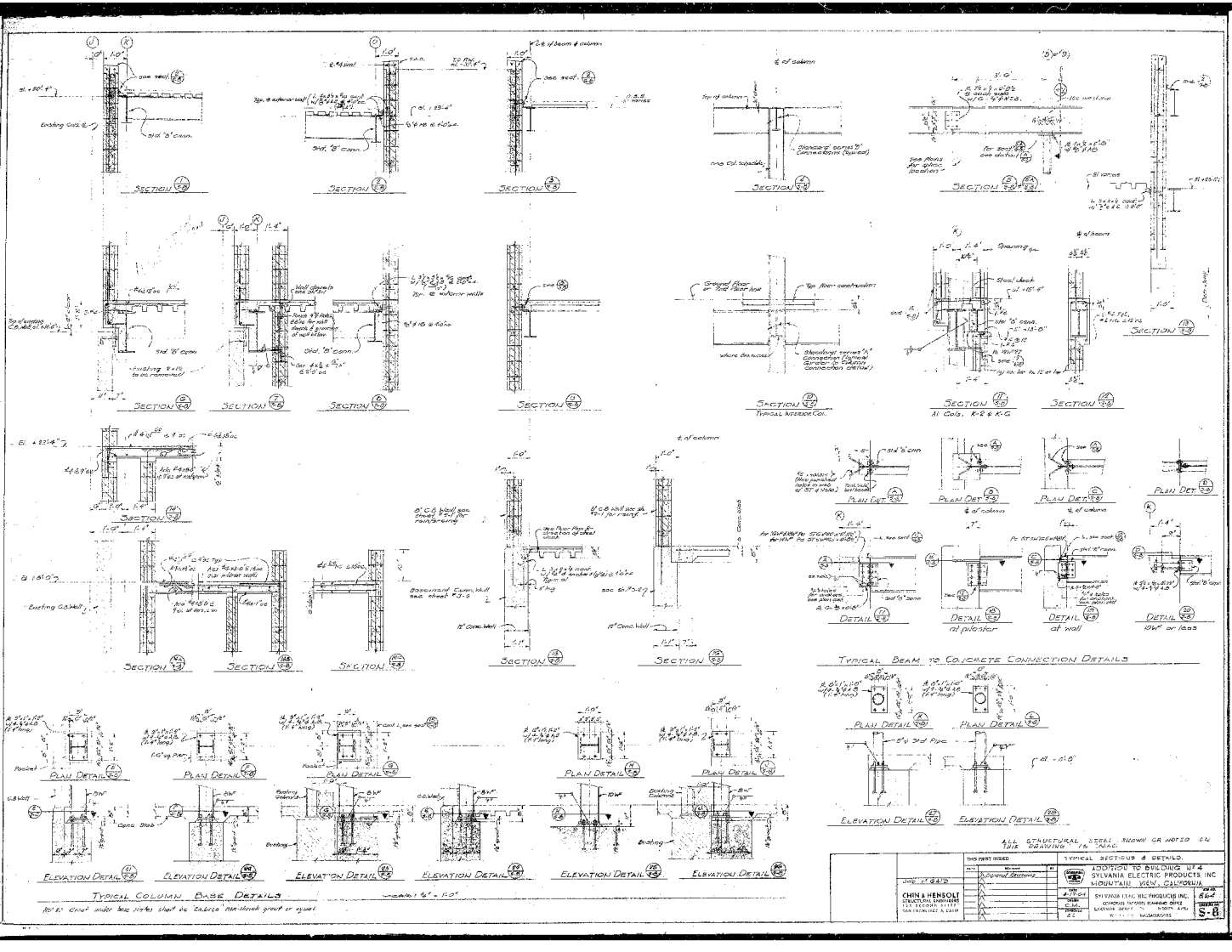
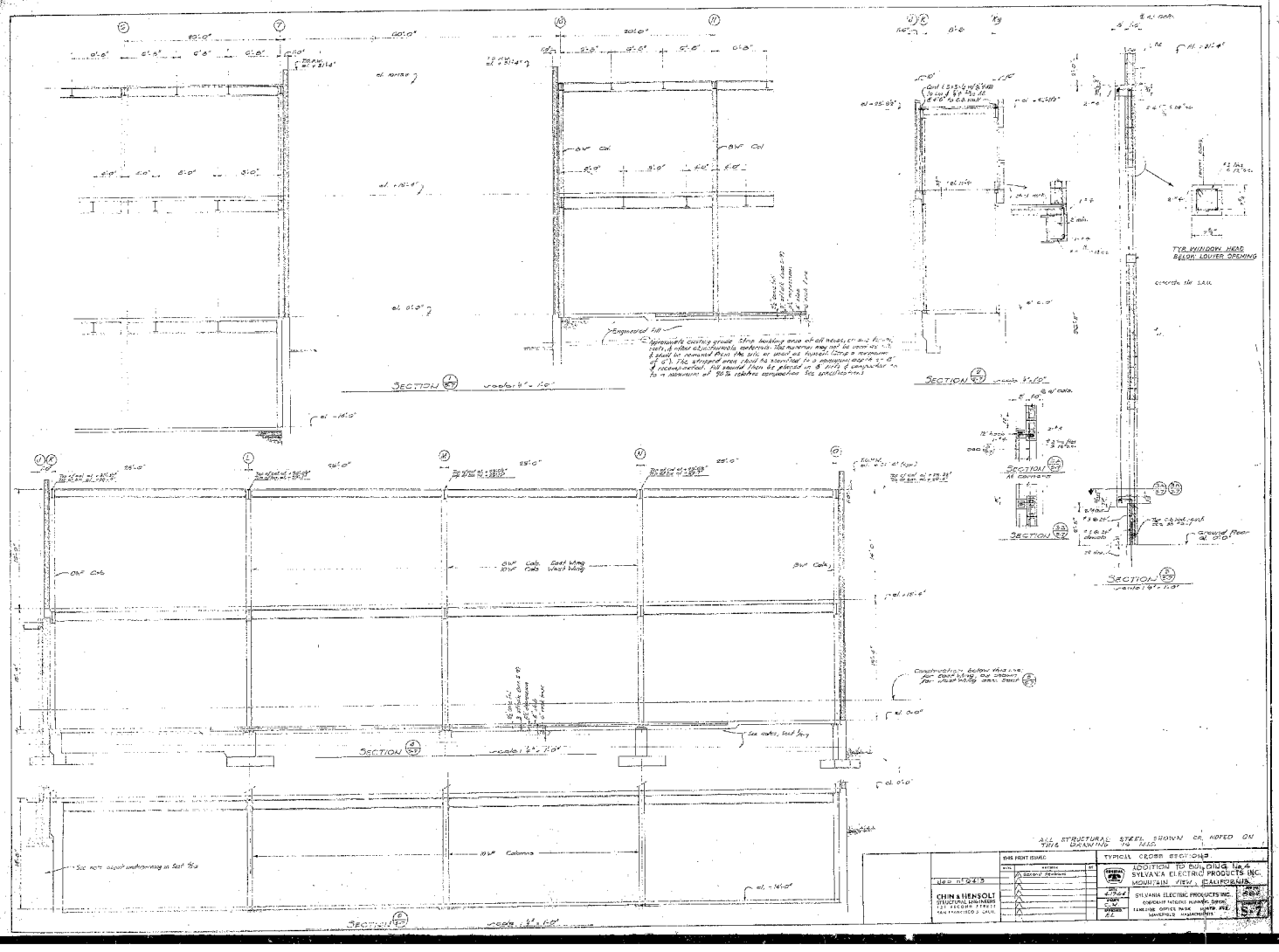
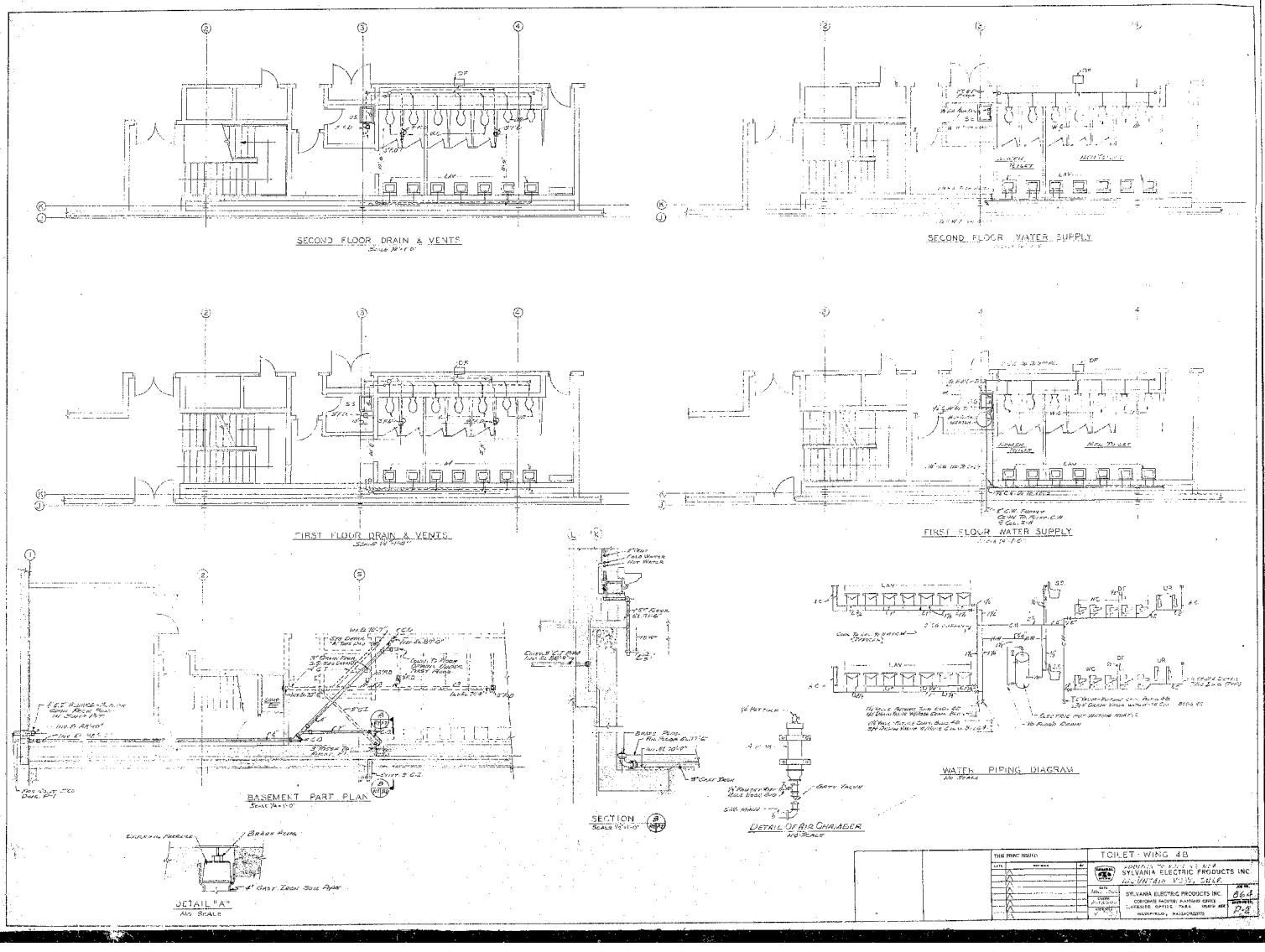
POOR LEGIBILITY

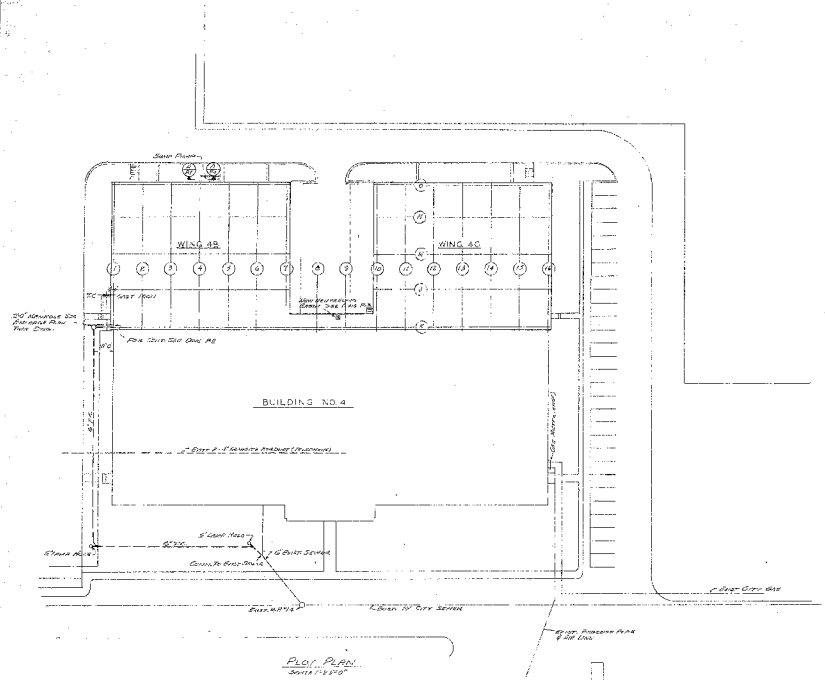
ONE OR MORE PAGES IN THIS DOCUMENT ARE DIFFICULT TO READ
DUE TO THE QUALITY OF THE ORIGINAL

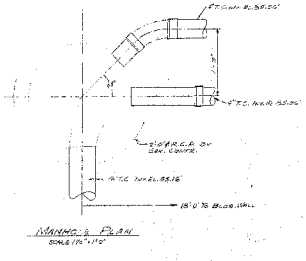

SECTION
TYPICAL INTERIOR COL.
At Cols. K-2 & K-6
PLAN DET.
DETAIL
at pilaster
at wall
10W or less
TYPICAL BEAM TO CONCRETE CONNECTION DETAILS
PLAN DETAIL
ELEVATION DETAIL
TYPICAL COLUMN BASE DETAILS
ALL STRUCTURAL STEEL SHOWN OR NOTED ON THIS DRAWING IS TRACE.
THIS PRINT ISSUED
TYPICAL SECTIONS & DETAILS.
ADDITION TO BUILDING NO 4
SYLVANIA ELECTRIC PRODUCTS INC
MOUNTAIN VIEW, CALIFORNIA
CHIN & HENSOLT
STRUCTURAL ENGINEERS
SYLVANIA ELEC. PRODUCTS INC.
S-8

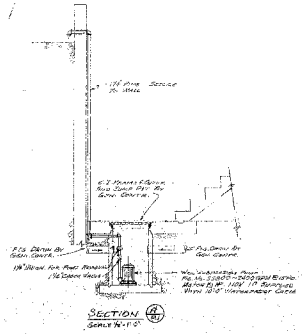


SECTION
TYP. WINDOW HEAD BELOW LOUVER OPENING
Engineered fill
Construction below this line for East Wing, or shown for West Wing area, Sheet
See notes, Sheet
10WF Columns
ALL STRUCTURAL STEEL SHOWN OR NOTED ON THIS DRAWING IS NEW.
TYPICAL CROSS SECTIONS
ADDITION TO BUILDING No. 4
SYLVANIA ELECTRIC PRODUCTS INC.
MOUNTAIN VIEW, CALIFORNIA
CHIN & HENSOLT
STRUCTURAL ENGINEERS
SYLVANIA ELECTRIC PRODUCTS INC.
CORPORATE FACILITIES PLANNING DIVISION
FAMILIAR OFFICE PARK MONTE VIEW
SUNNYVALE, CALIFORNIA


SECOND FLOOR DRAIN & VENTS
SECOND FLOOR WATER SUPPLY
FIRST FLOOR DRAIN & VENTS
FIRST FLOOR WATER SUPPLY
BASEMENT PART PLAN
SECTION
DETAIL "A"
NO SCALE
DETAIL OF AIR CHAMBER
NO SCALE
WATER PIPING DIAGRAM
NO SCALE
THIS PRINT ISSUED
TOILET · WING 4B
SYLVANIA ELECTRIC PRODUCTS INC.
SYLVANIA ELECTRIC PRODUCTS INC.
CORPORATE MAINTENANCE OFFICE
LAKESIDE OFFICE PARK
WESTFIELD, MASSACHUSETTS
864
P-8







RECEIVED
JUL 18 1954
Building Insp.

THIS PRINT ISSUED

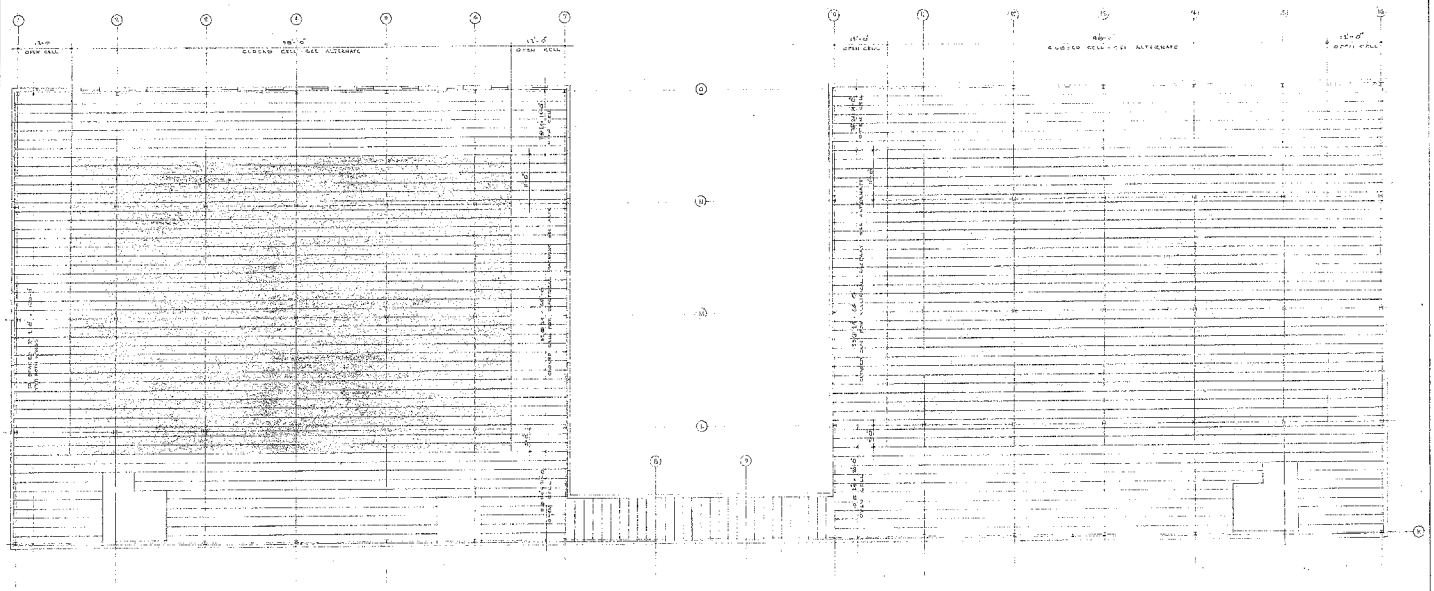
DATE	REVISION	BY

PLOT PLAN AND DETAILS

ADDITION TO BUILDING NO. 4
SYLVANIA ELECTRIC PRODUCTS INC.
MOUNTAIN VIEW CALIF.

SYLVANIA ELECTRIC PRODUCTS INC.
CORONAS INSTITUTE BUILDING OFFICE
LAKESIDE OFFICE PARK, NORTH AVE.
WAKEFIELD, MASSACHUSETTS

DATE 3/12/19



DECKING LAYOUT 2ND FLOOR

KEY

CLOSED CELL FOR ELEC. RACEWAY - SEE ALTERNATE

OPEN CELL

SEE NOTES, SHT S-9

ALL STRUCTURAL STEEL SHOWN OR NOTED ON THIS DRAWING IS NEW.

DECKING LAYOUT 2ND FLOOR

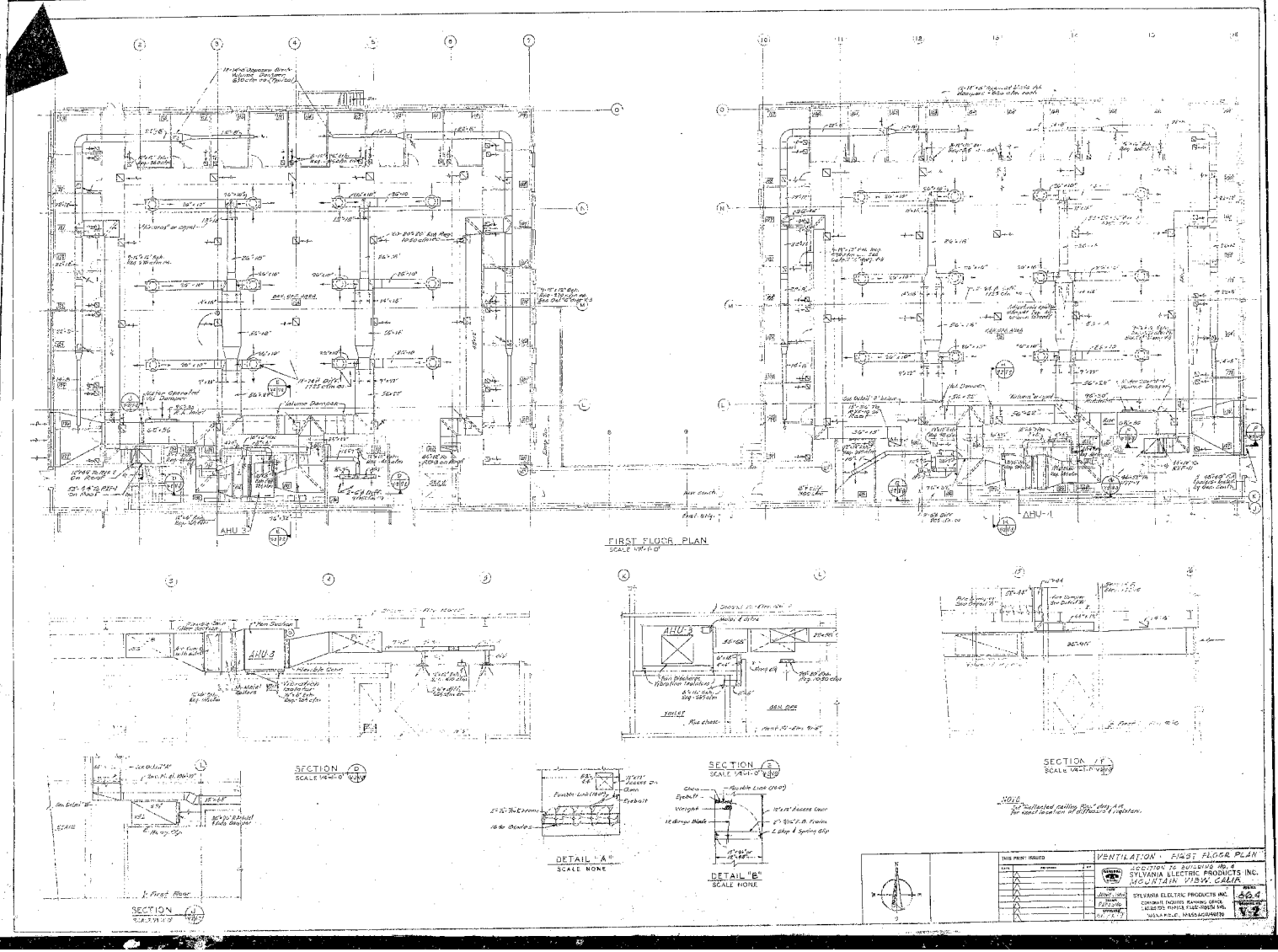
SYLVANIA ELECTRIC PRODUCTS INC.
MC KINNEY, VIRGINIA, CALIF.

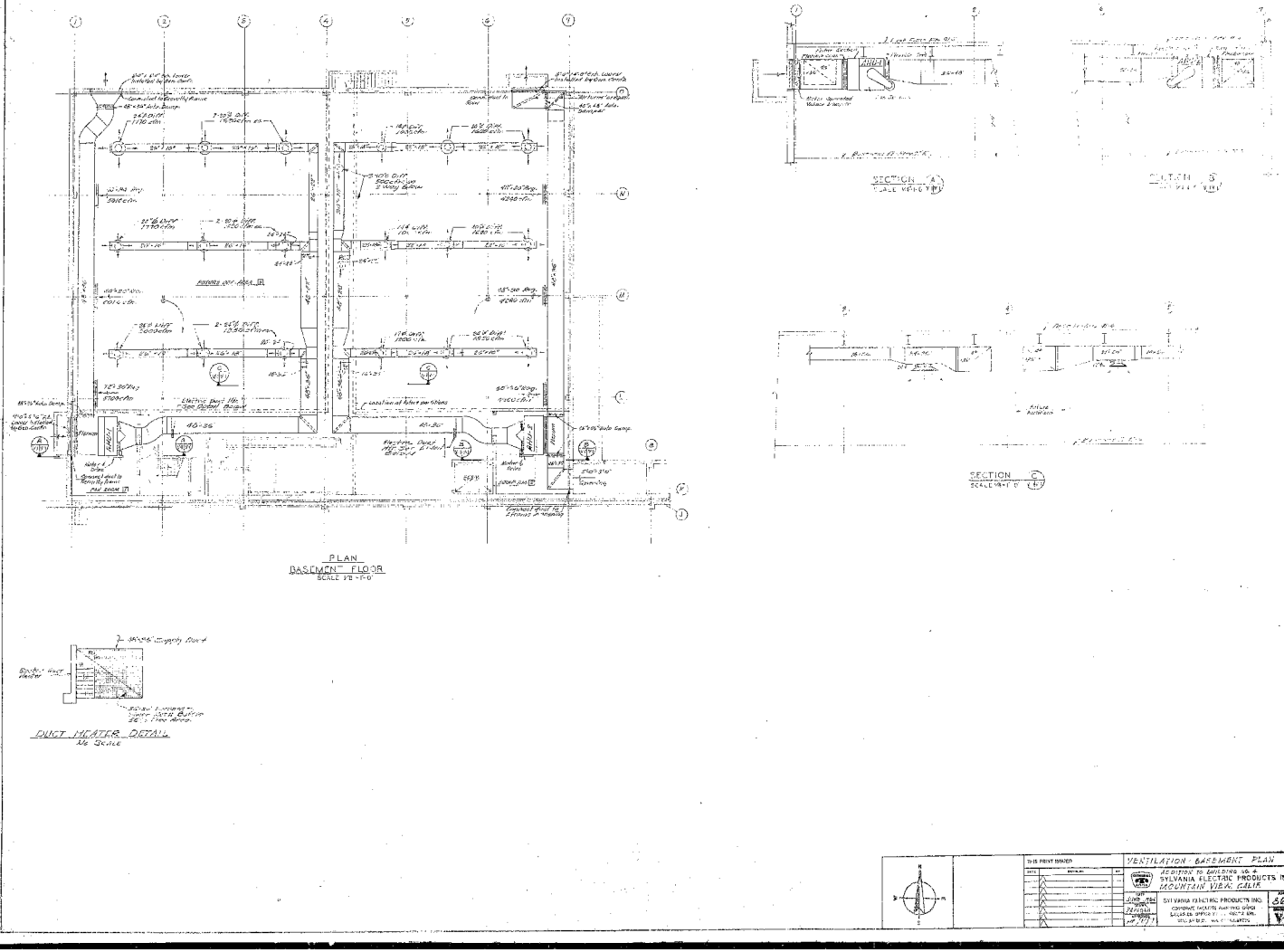
CHIN & HENSOLT
STRUCTURAL ENGINEERS
11 SACRAMENTO STREET
SAN FRANCISCO 8, CALIF.

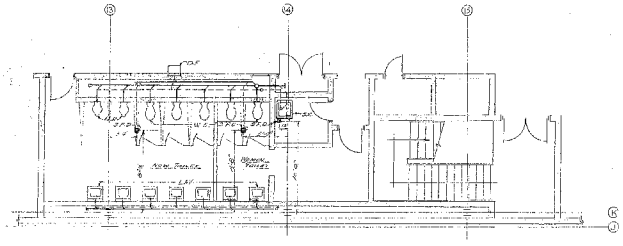
SYLVANIA ELECTRIC PRODUCTS INC.
CORPORATE SERVICES BUILDING CORPS
LAKESIDE OFFICE PARK NORTH AVE.
MANCHESTER, MASSACHUSETTS

SCALE 1/64

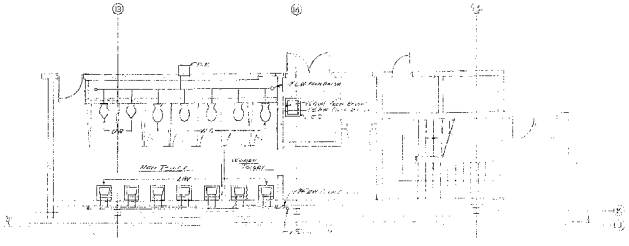
S-10


FIRST FLOOR PLAN
SCALE 1/8"=1'-0"
AHU-3
AHU-1
SECTION D
SCALE 1/4"=1'-0"
SECTION E
SCALE 1/4"=1'-0"
SECTION F
SCALE 1/4"=1'-0"
SECTION J
SCALE 1/4"=1'-0"
DETAIL "A"
SCALE NONE
DETAIL "B"
SCALE NONE
NOTE
For Reinforced Ceiling Plan, Dwg. A-1A
For exact location of diffusers & registers.
THIS PRINT ISSUED
VENTILATION - FIRST FLOOR PLAN
ADDITION TO BUILDING No. 4
SYLVANIA ELECTRIC PRODUCTS INC.
MOUNTAIN VIEW, CALIF.
SYLVANIA ELECTRIC PRODUCTS INC.
CONSULTING ENGINEERS RANKING OFFICE
CALLED DIS RANGE FLUE-NORTH LAB.
WALTHAM, MASSACHUSETTS
SCALE 1/8"=1'-0"
V-2

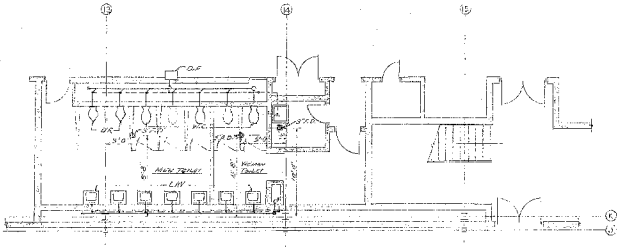

PLAN
BASEMENT FLOOR
SCALE 1/8" = 1'-0"
SECTION A
SECTION B
SECTION C
DUCT HEATER DETAIL
No Scale
THIS PRINT ISSUED
VENTILATION - BASEMENT PLAN
ADDITION TO BUILDING NO. 4
SYLVANIA ELECTRIC PRODUCTS INC.
MOUNTAIN VIEW, CALIF.
SYLVANIA ELECTRIC PRODUCTS INC.
564
V-1



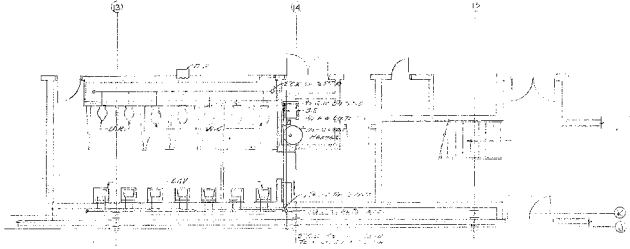
SECOND FLOOR DRAIN & VENTS
Scale 1/4"=1'-0"



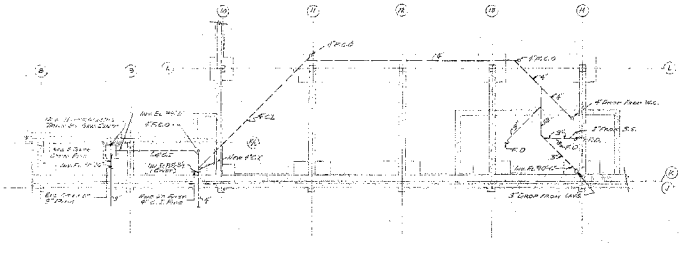
SECOND FLOOR WATER SUPPLY



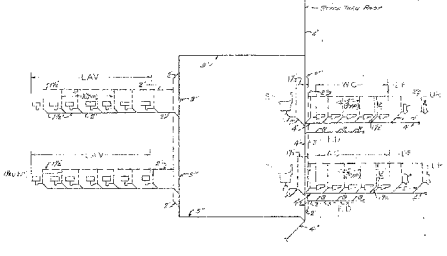
FIRST FLOOR DRAIN & VENTS
Scale 1/4"=1'-0"



FIRST FLOOR WATER SUPPLY
Scale 1/4"=1'-0"



PLAN BELOW FIRST FLOOR BLDG. 4C
Scale 1/8"=1'-0"



DRAIN & WASTE PIPING DIAGRAM
No Scale

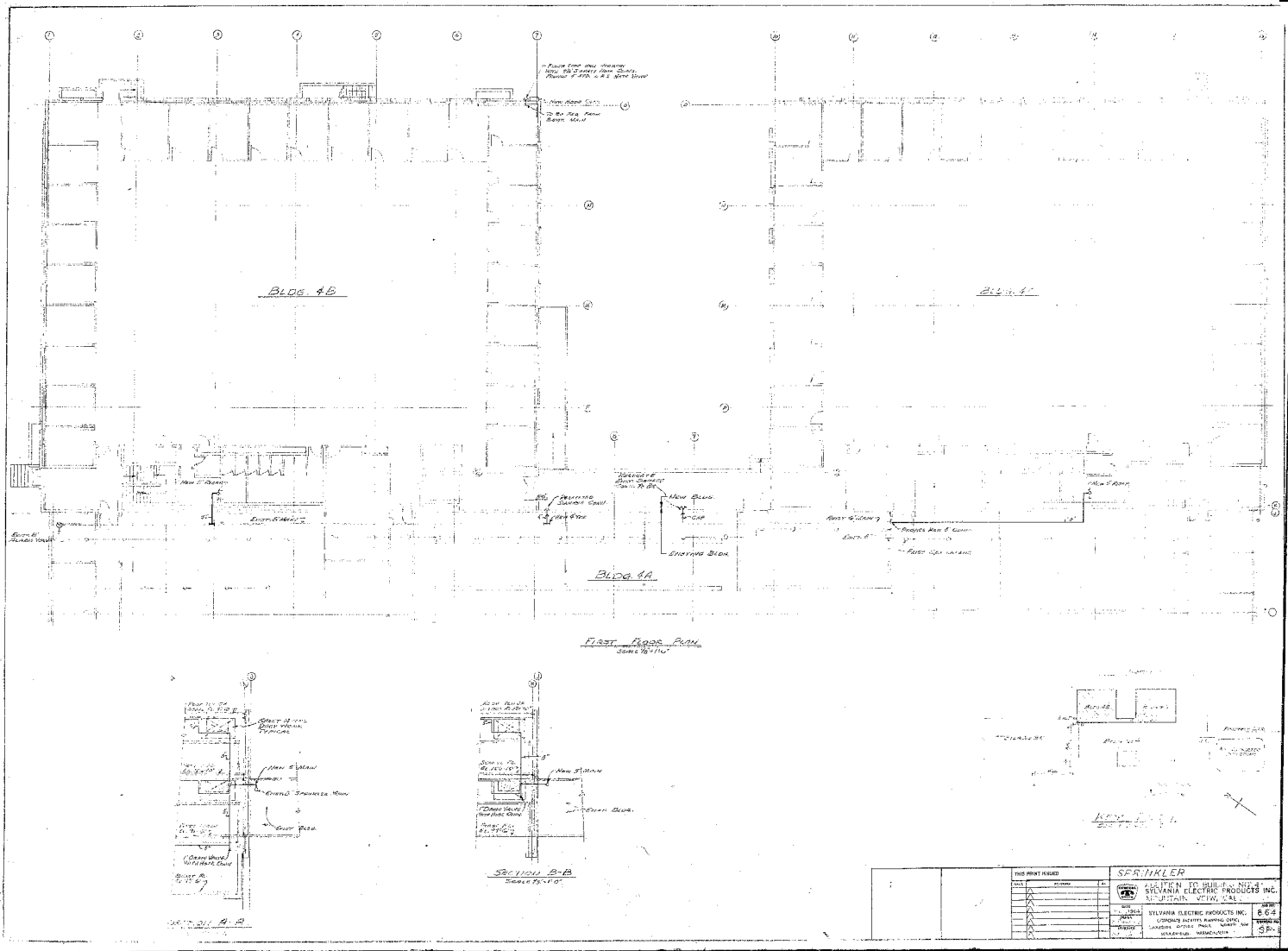
THIS PRINT ISSUED

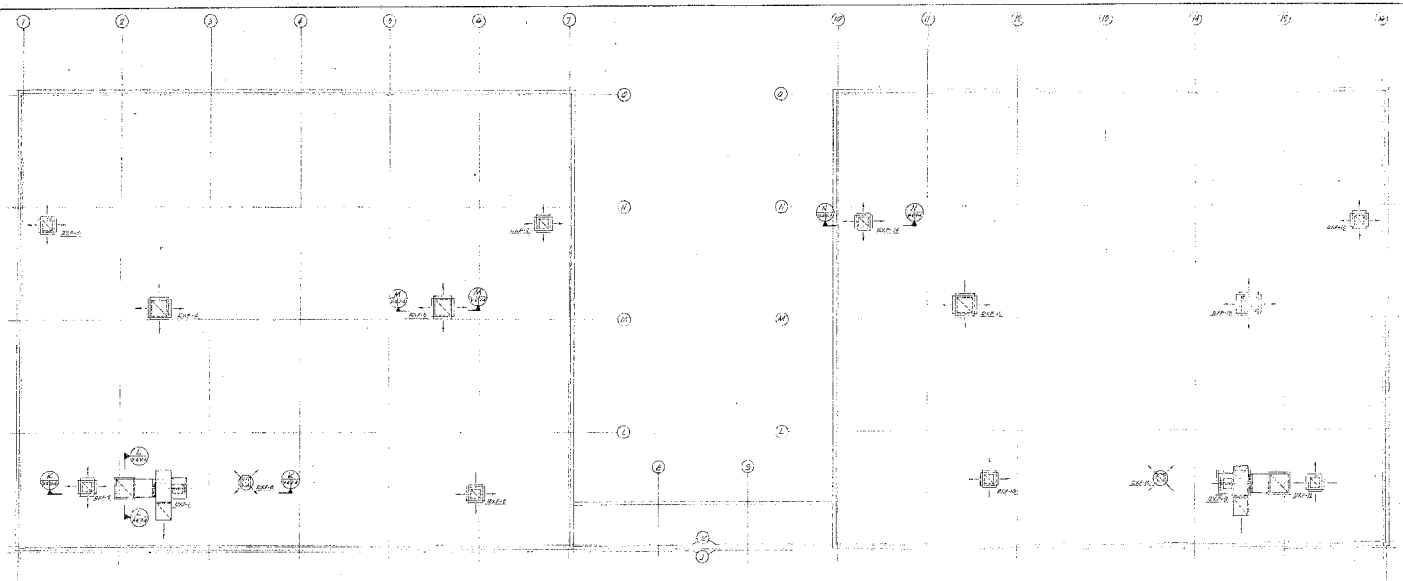
TOILET - WING 4C

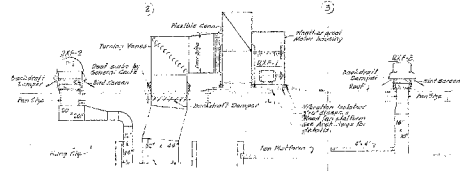
SYLVANIA ELECTRIC PRODUCTS INC.

SYLVANIA ELECTRIC PRODUCTS INC.
CORDOVA SECTION PLANNING OFFICE
LAKESIDE OFFICE PARK NORTH AT
WAKEFIELD, MASSACHUSETTS

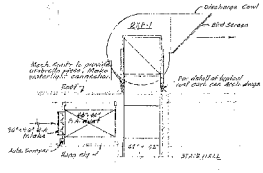
JOB NO. 354
DRAWING NO. P-8


BLDG. 4B
BLDG. 4A
FIRST FLOOR PLAN
SCALE 1/8"=1'-0"
SECTION A-A
SECTION B-B
SCALE 1/8"=1'-0"
NEW 5" MAIN
EXIST. 5" MAIN
EXISTING BLDG.
NEW BLDG.
CAP
EXIST. 6" MAIN
NEW 5" MAIN
EXIST. BLDG.
THIS PRINT ISSUED
SPRINKLER
SYLVANIA ELECTRIC PRODUCTS INC.
MOUNTAIN VIEW, CAL.
SYLVANIA ELECTRIC PRODUCTS INC.
CORPORATE FACILITIES PLANNING OFFICE
LAKESIDE OFFICE PARK, NORTH AVE
WAKEFIELD, MASSACHUSETTS
8-64
SP-

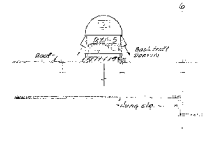




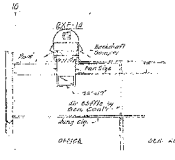
SECTION K
Scale: 1/4"=1'-0"



SECTION L
Scale: 1/4"=1'-0"



SECTION M
Scale: 1/4"=1'-0"



SECTION N
Scale: 1/4"=1'-0"

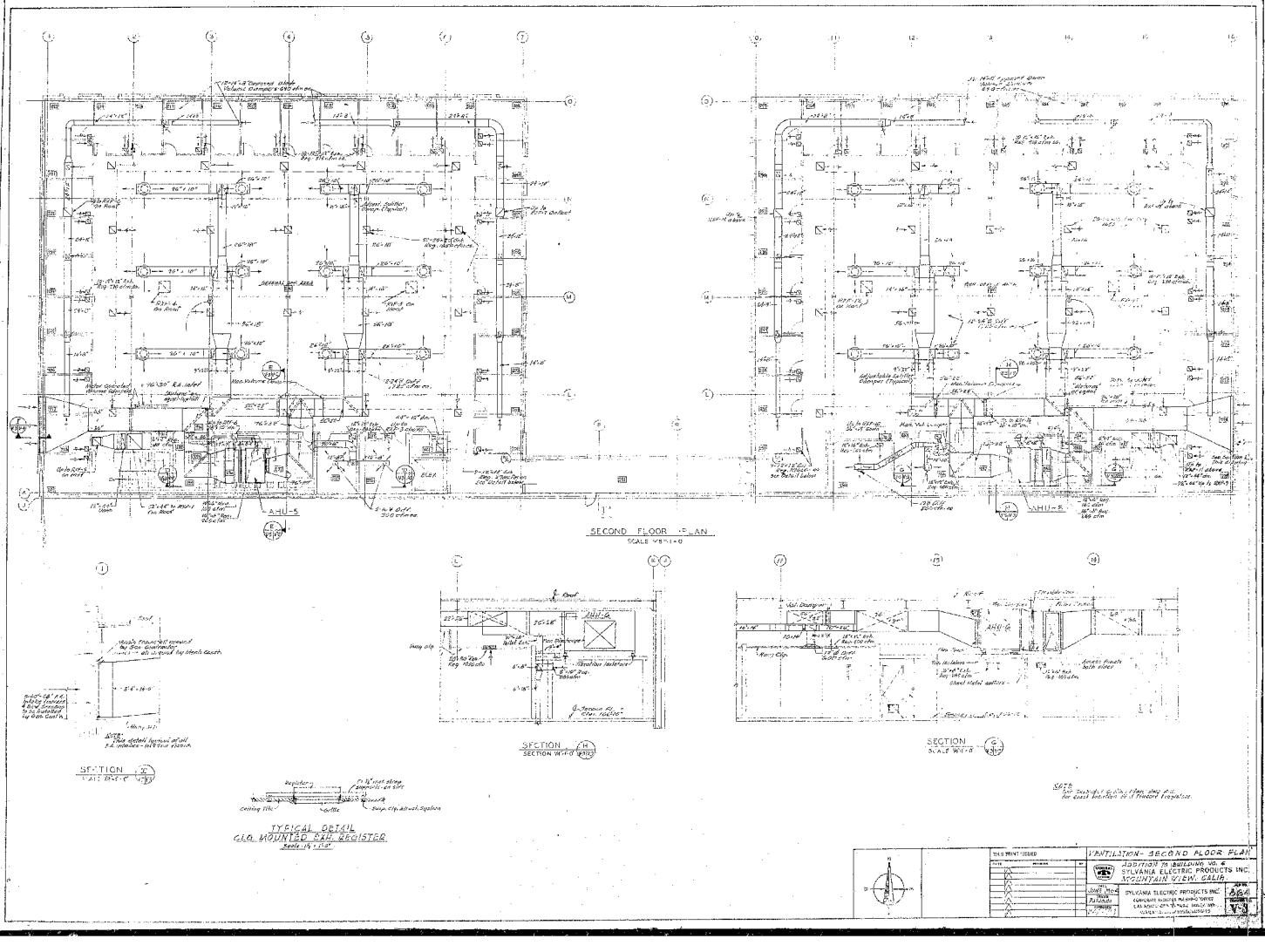
THIS PRINT ISSUED

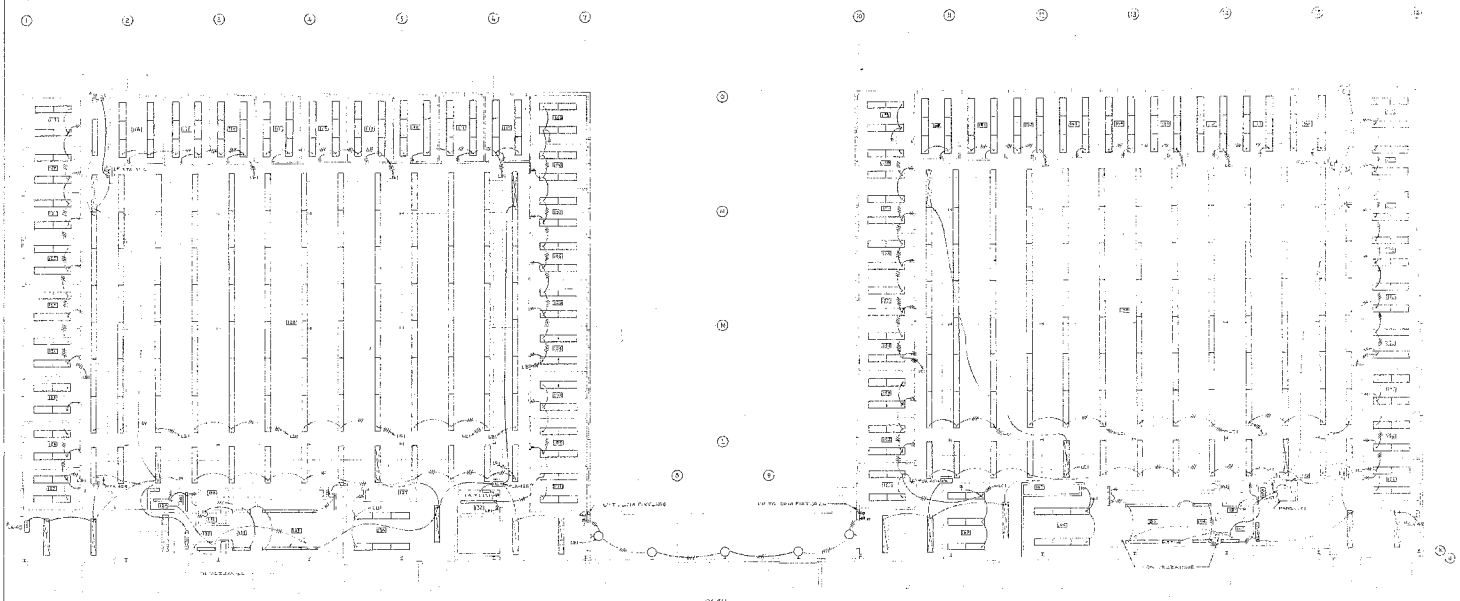
VENTILATION - ROOF PLAN & SECTIONS

ADDITION TO BUILDING NO. 4
SYLVANIA ELECTRIC PRODUCTS INC.
MOUNTAIN VIEW, CALIF.

SYLVANIA ELECTRIC PRODUCTS INC.
CORPORATE ENGINEERING OFFICE
SALES OFFICE: SUNNYVALE, CALIF.
PLANT NO. 1: MOUNTAIN VIEW

DATE: 1/28/64
SCALE: 1/8"=1'-0"
DRAWN: [illegible]
CHECKED: [illegible]
DWG. NO. 4-4


SECOND FLOOR PLAN
SCALE 1/8"=1'-0"
AHU-5
AHU-6
SECTION
SECTION
SECTION
TYPICAL DETAIL
CLG. MOUNTED EXH. REGISTER
VENTILATION - SECOND FLOOR PLAN
ADDITION TO BUILDING NO. 6
SYLVANIA ELECTRIC PRODUCTS INC.
MOUNTAIN VIEW, CALIF.
SYLVANIA ELECTRIC PRODUCTS INC.
AGA
V-3

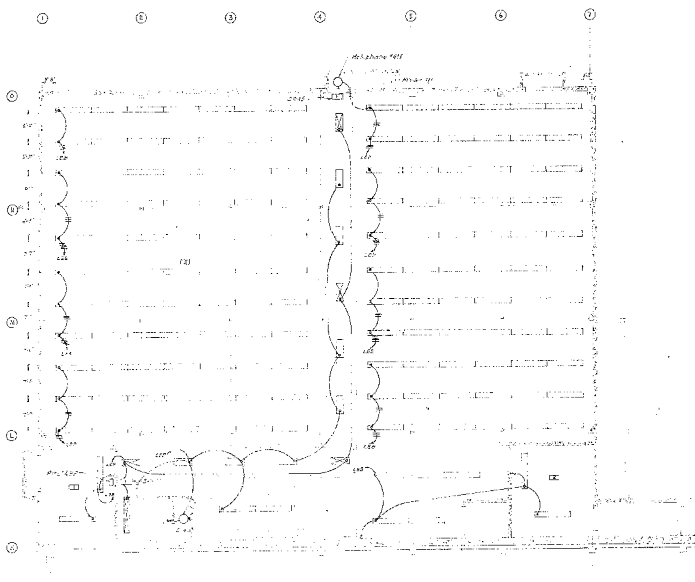


THIS PRINT ISSUED

DATE	REVISION	BY

SYLVANIA ELECTRIC PRODUCTS INC.

SYLVANIA ELECTRIC PRODUCTS INC
CONSULTING ENGINEERS PLANNING OFFICE
LAKEVIEW OFFICE PARK NORTH AVE.
WAKEFIELD, MASSACHUSETTS



PLAN

Room No.	Room Name	Ordering No.	Fixtures Per Row	Mtg. Hgt.	Clg. Hgt.
124	Elec. Equip.	4 PV10-2100B-8	1 PV10-2100B	8'-0"	
3	Future Office Area	11 CTDL-2100B-45-45-M-88	7 CTDL-2100B-45-45-M	7'-8"	
		11 CTDL-2100B-45-45-M-88	8 CTDL-2100B-45-45-M	7'-8"	
		1 CTDL-2404-45-45-M-4	1 CTDL-2404-45-45-M	7'-8"	
		7 PV10-2100B-28	2 PV10-2100B	8'-0"	
		1 PV10-2100B-16	2 PV10-2100B	8'-0"	
	Stair Areaway	1 Crouse Hinds VGR-115 Telephone #415		Wall 5'-6" Above Lo.	
110 Thru 112	Offices	18 CTDL-4404-45-45-M-8	2 CTDL-4404-45-45-M	8'-0"	9'-0"
116 Thru 118	Offices	18 CTDL-4404-45-45-M-12	3 CTDL-4404-45-45-M		
119 Thru 127	Offices	18 CTDL-4404-45-45-M-8	2 CTDL-4404-45-45-M		
128	General Office	19 CTDL-2100B-45-45-M-56	7 CTDL-2100B-45-45-M	10'-0"	11'-0"
		17 CTDL-2100B-45-45-M-8	1 CTDL-2100B-45-45-M	8'-0"	9'-0"
129	Elec. Closet	1 CS-2404-4	1 CS-2404	7'-	
130	Vestibule	1 CS-2404-4	1 CS-2404	Const.	7'-6"
131	Janitor	1 CS-2404-4	1 CS-2404		
133 & 134	Rest Women	4 CS-2404-4	1 CS-2404		
134	Men	2 CS-4408-12	1 CS-4408 & 1 CS-2404		
		1 CS-2404-4	1 CS-2404		
136	Conference	3 CTDL-4404-45-45-M-12	3 CTDL-4404-45-45-M	8'-0"	9'-0"
137	Elec. Closet	1 CS-4408-8	1 CS-4408	7'-0"	
141 Thru 154	Offices	18 CTDL-4404-45-45-M-8	2 CTDL-4404-45-45-M	8'-0"	9'-0"
155 Thru 166	Offices	17 CTDL-4404-45-45-M-12	3 CTDL-4404-45-45-M		
150 Thru 177	Offices	18 CTDL-4404-45-45-M-8	2 CTDL-4404-45-45-M		
178	General Office	18 CTDL-2100B-45-45-M-56	7 CTDL-2100B-45-45-M	10'-0"	11'-0"
		17 CTDL-2100B-45-45-M-8	1 CTDL-2100B-45-45-M	8'-0"	9'-0"
179					
180	Vestibule	1 CS-2404-4	1 CS-2404	Const.	7'-6"
181	Janitor	1 CS-2404-4	1 CS-2404		
182 & 183	Rest Women	4 CS-2404-4	1 CS-2404		
185	Men	2 CS-4408-12	1 CS-4408 & 1 CS-2404		
		1 CS-2404-4	1 CS-2404		
184	Conference	3 CTDL-4404-45-45-M-12	3 CTDL-4404-45-45-M	8'-0"	9'-0"
186	Office	3 CTDL-4404-45-45-M-8	2 CTDL-4404-45-45-M	8'-0"	9'-0"
	Platform	2 Telephone #415		Wall-Mtd.	15'-0"
	Stairs B&C	14 CTDL-2100B-45-45-M-...	1 CTDL-2100B-45-45-M	24" Above ...	
201 Thru 209	Offices	18 CTDL-4404-45-45-M-8	2 CTDL-4404-45-45-M	8'-0"	9'-0"
210 Thru 219	Offices	20 CTDL-4404-45-45-M-12	3 CTDL-4404-45-45-M	8'-0"	9'-0"
220 Thru 229	Offices	21 CTDL-4404-45-45-M-8	2 CTDL-4404-45-45-M	8'-0"	9'-0"
230	General Office	18 CTDL-2100B-45-45-M-56	7 CTDL-2100B-45-45-M	10'-0"	11'-0"
		15 CTDL-2100B-45-45-M-8	1 CTDL-2100B-45-45-M	8'-0"	9'-0"
231	Elec. Closet	1 CS-2404-4	1 CS-2404	7'-6"	
232	Vestibule	1 CS-2404-4	1 CS-2404	Const.	7'-6"
233	Janitor	1 CS-2404-4	1 CS-2404		
233 & 234	Rest Women	4 CS-2404-4	1 CS-2404		
237	Men	2 CS-4408-12	1 CS-4408 & 1 CS-2404		
		1 CS-2404-4	1 CS-2404		
239	Women Lounge	3 CTDL-4404-45-45-M-12	3 CTDL-4404-45-45-M	8'-0"	9'-0"
240	Office	2 CTDL-4404-45-45-M-12	3 CTDL-4404-45-45-M	8'-0"	9'-0"
241	Elec. Closet	1 CS-4408-8	1 CS-4408	7'-0"	
251 Thru 259	Offices	18 CTDL-4404-45-45-M-8	2 CTDL-4404-45-45-M	8'-0"	9'-0"
260 Thru 269	Offices	20 CTDL-4404-45-45-M-12	3 CTDL-4404-45-45-M	8'-0"	9'-0"
270 Thru 279	Offices	20 CTDL-4404-45-45-M-8	2 CTDL-4404-45-45-M	8'-0"	9'-0"
280	General Office	18 CTDL-2100B-45-45-M-56	7 CTDL-2100B-45-45-M	10'-0"	11'-0"
		15 CTDL-2100B-45-45-M-8	1 CTDL-2100B-45-45-M	8'-0"	9'-0"
281	Elec. Closet	1 CS-2404-4	1 CS-2404	7'-6"	
282	Vestibule	1 CS-2404-4	1 CS-2404	Const.	7'-6"
283	Janitor	1 CS-2404-4	1 CS-2404		
285 & 286	Rest Women	4 CS-2404-4	1 CS-2404		
287	Men	2 CS-4408-12	1 CS-4408 & 1 CS-2404		
		1 CS-2404-4	1 CS-2404		
288 & 290	Conference	4 CTDL-4404-45-45-M-12	3 CTDL-4404-45-45-M	8'-0"	9'-0"
291	Passageway	8 CTDL-2100B-45-45-M-8	1 CTDL-2100B-45-45-M	8'-0"	9'-0"
	Mezzanine	6 PV10-2404-6	1 PV10-2404		
	Building Perimeter	4 GPM-175	1 GPM-175		

* See Plans E-2, 3 & 4 for Cat. No. of all Exit Lights

LEGEND

[illegible]

AIR HANDLING UNIT ... BY MECH. CONTR.

... BY MECH. CONTR.

NOTES: All Wire #12, ½" For 2 or 3 W, ¾" For 4 or 5 W.

THIS PRINT ISSUED

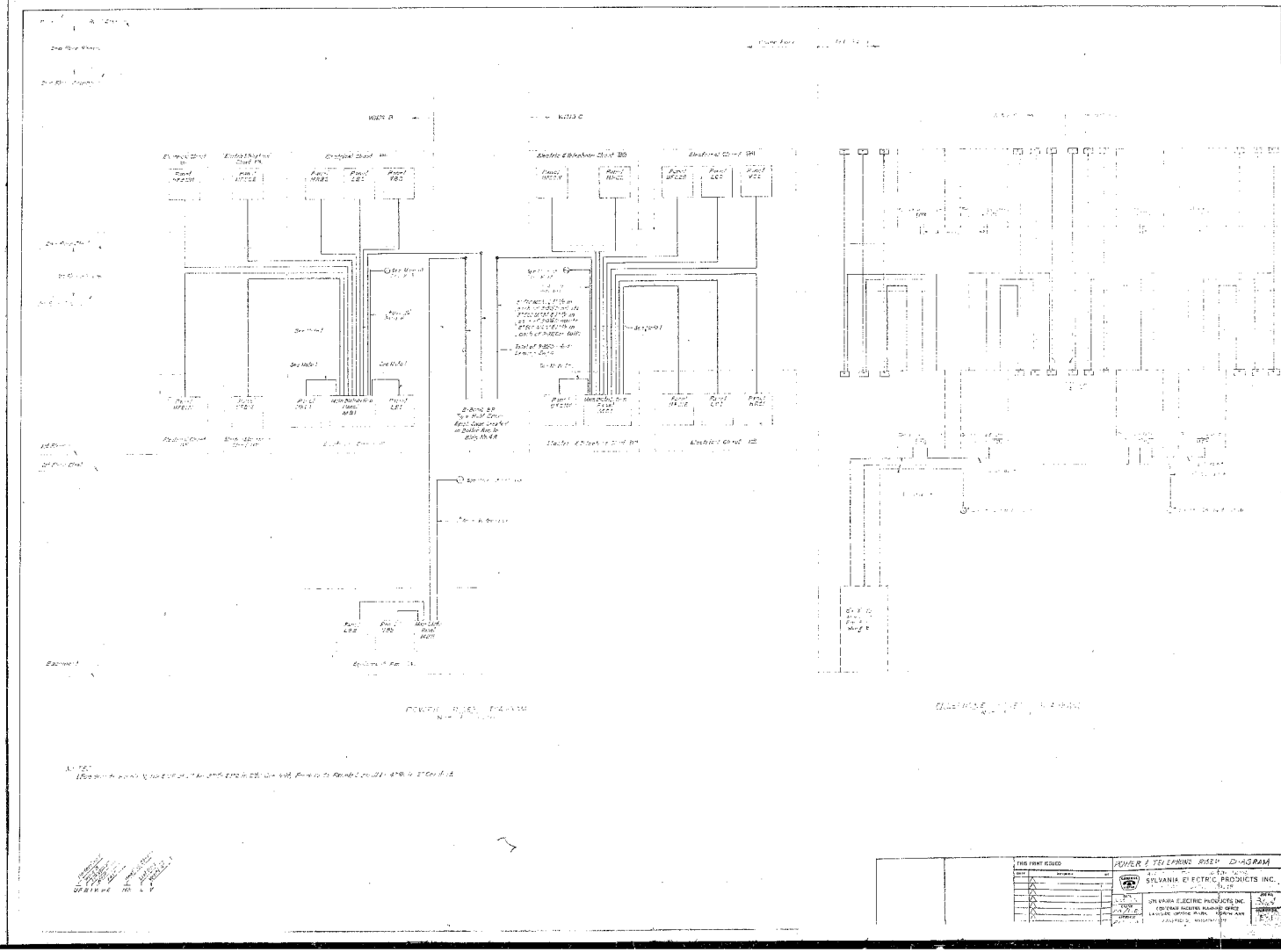
DATE	REVISION	BY

... LAYOUT – BASEMENT

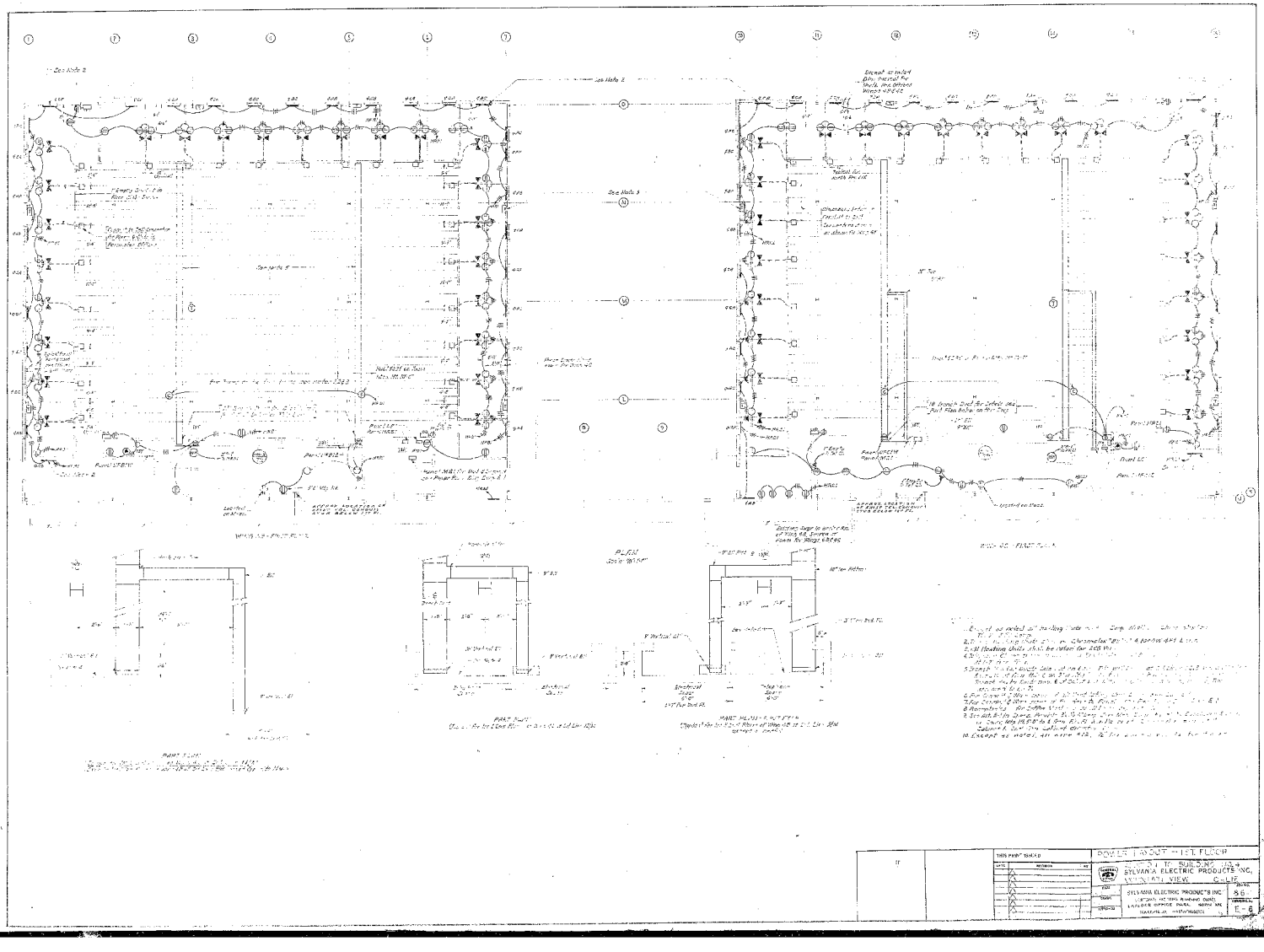
SYLVANIA ELECTRIC PRODUCTS INC.

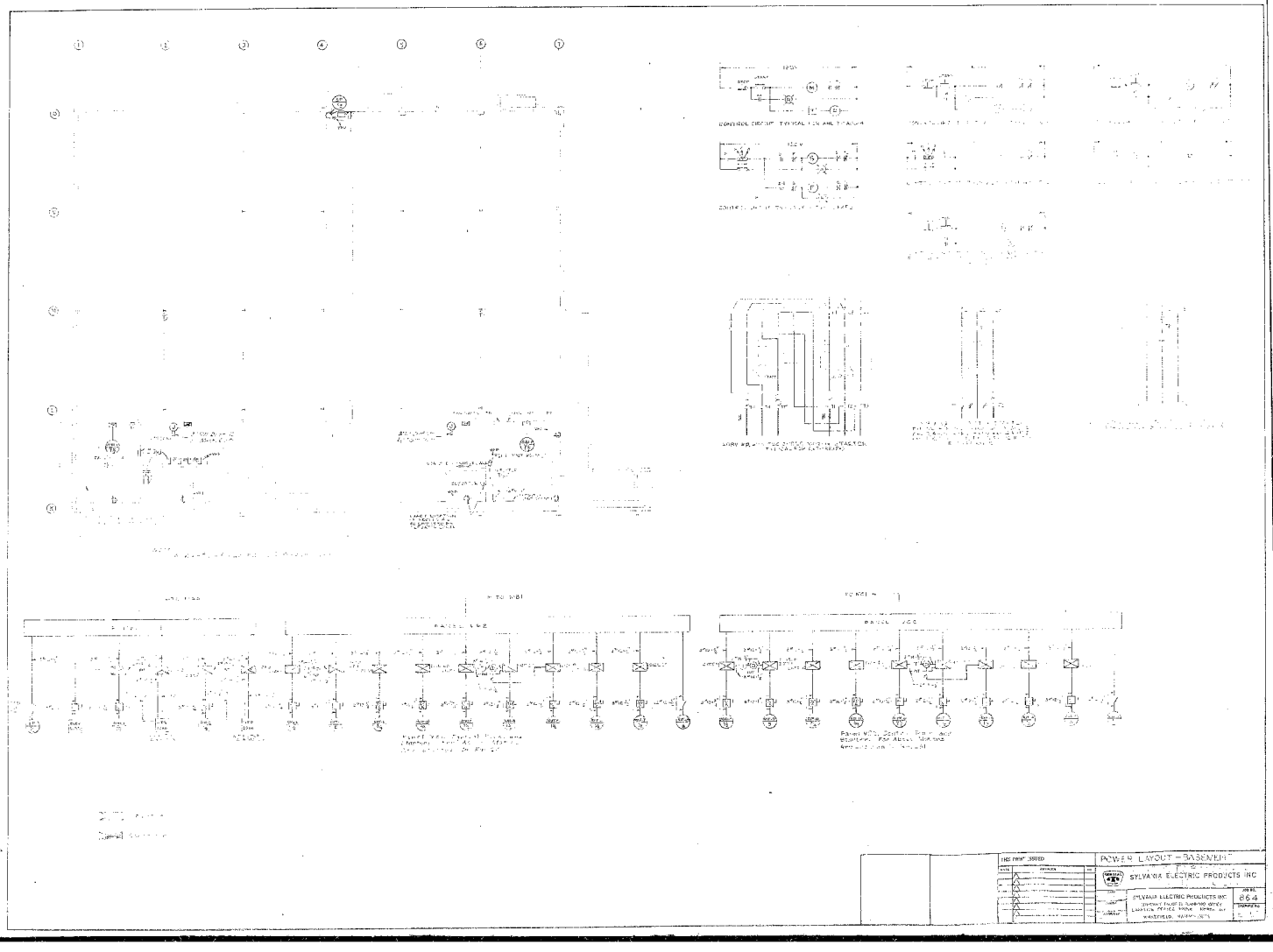
SYLVANIA ELECTRIC PRODUCTS INC
CORPORATE FACILITIES PLANNING OFFICE
LAKESIDE OFFICE PARK NORTH AVE
WAKEFIELD, MASSACHUSETTS

DATE / DRAWN / APPROVED / JOB NO. / DRAWING NO.

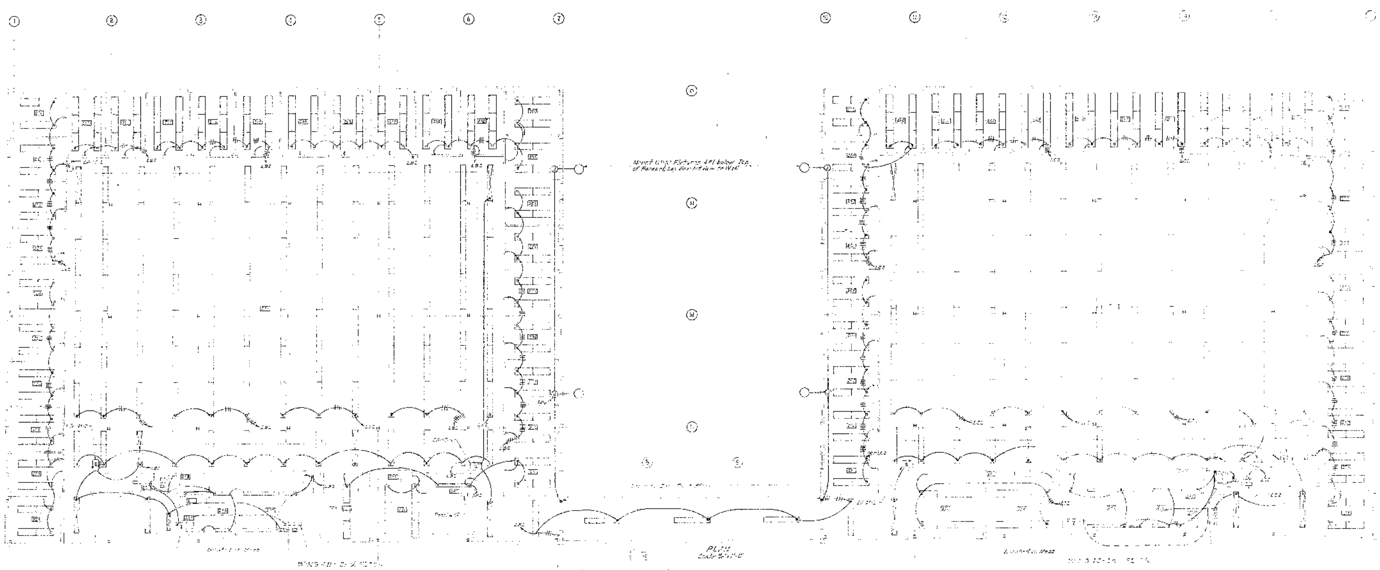


POWER & TELEPHONE RISER DIAGRAM
SYLVANIA ELECTRIC PRODUCTS INC.


POWER LAYOUT - 1ST FLOOR
SYLVANIA ELECTRIC PRODUCTS INC.
SYLVANIA ELECTRIC PRODUCTS INC.
E-6



POWER LAYOUT - BASEMENT
SYLVANIA ELECTRIC PRODUCTS INC
SYLVANIA ELECTRIC PRODUCTS INC
WINSTEAD, MASS.
864



PANEL SCHEDULE (SEE SPECS)

BREAKERS

Panel	Mains	Type	2P				3P-20A									3P-(?)	
			Quant.	Load	Quan.	Load			Quan.	Load	Quan.	Load	Quan.	Load	Quan.	Quan.	Load
MBR	[illegible]	[illegible]	2	[illegible]													
VBE					7	Recep.											
					4	Sp.											
VB2					7	RXP-8			4	RXP			1	RXP-1			
VC2					7	RXP-11			6	RXP			1	RXP-9			

NOTES:

THIS PRINT ISSUED

DATE	REVISION	BY

SYLVANIA ELECTRIC PRODUCTS INC.

SYLVANIA ELECTRIC PRODUCTS INC.
CORPORATE FACILITIES PLANNING OFFICE
LAKESIDE OFFICE PARK NORTH AVE.
WAKEFIELD MASSACHUSETTS

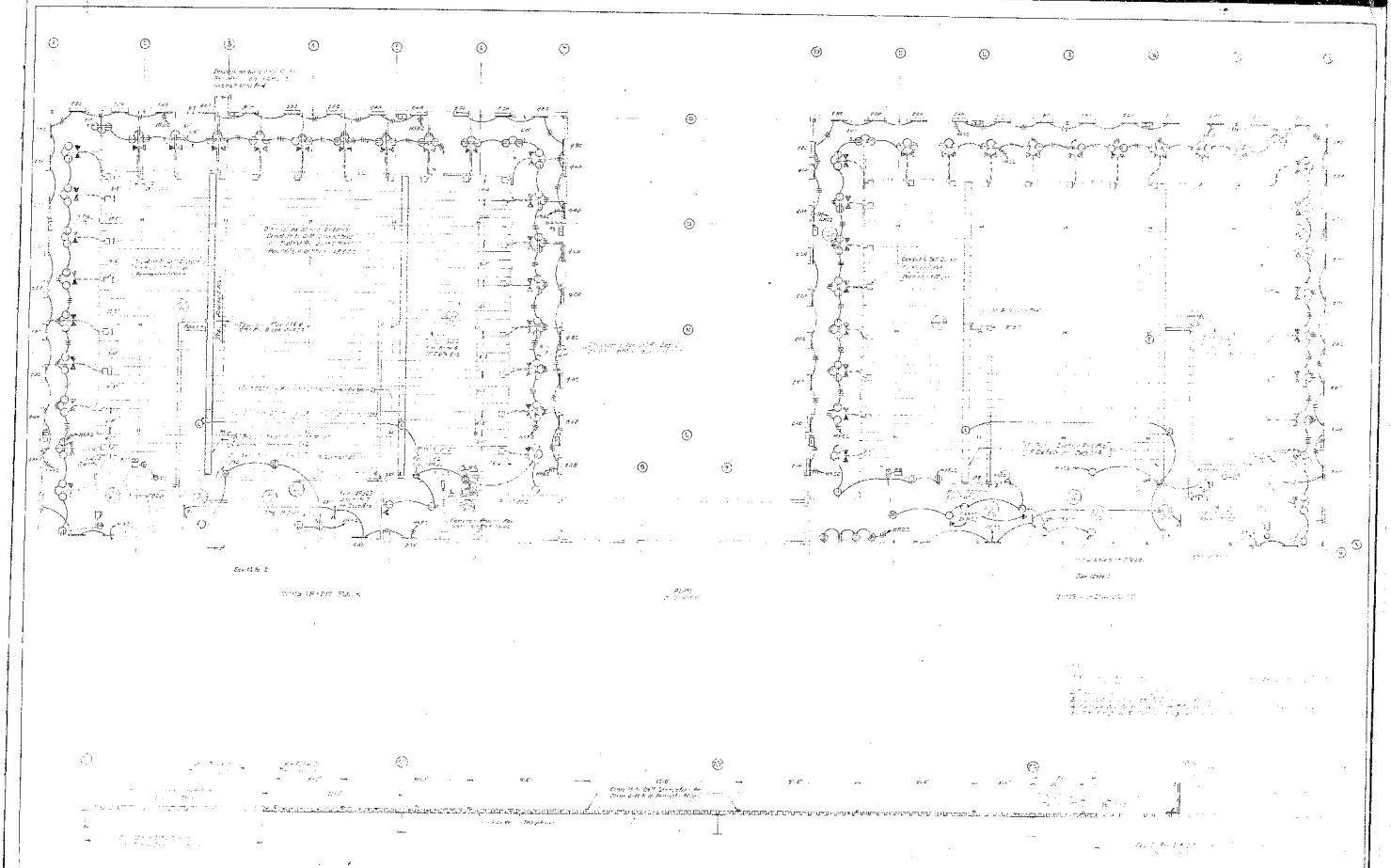
DATE

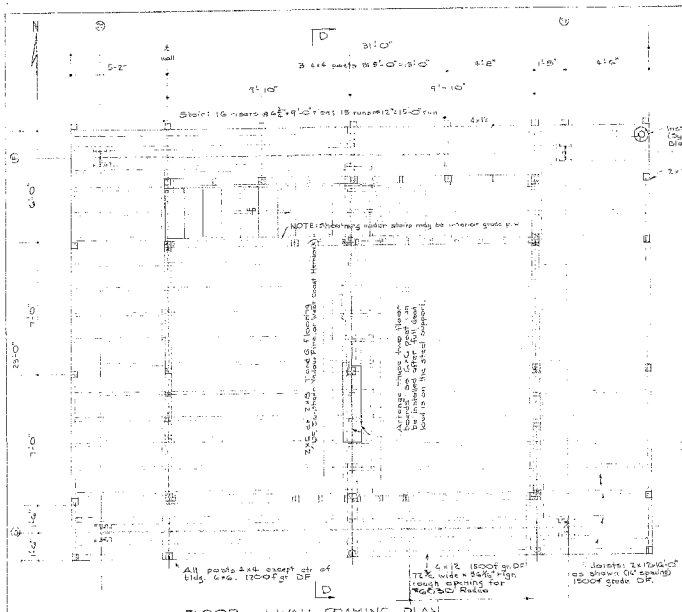
DRAWN

APPROVED

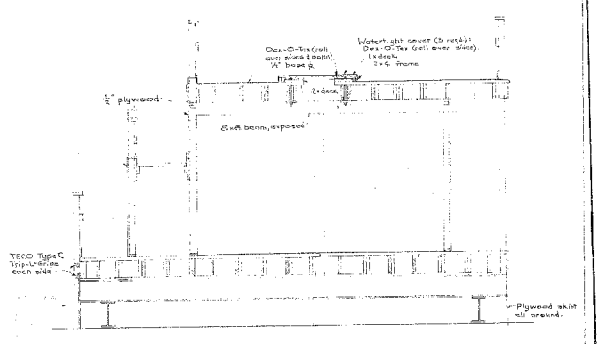
JOB NO.

DRAWING NO.





FLOOR and WALL FRAMING PLAN
Scale ¼" = 1'-0"



SECTION D
Scale ¼" = 1'-0"

NOTES:

East and west walls of building are sheathed both sides. Inside sheathing is ⅜" p.w. furn. & installed by Owner.

Tops of windows line up with tops of doors except window on N. side shall be as high as possible. Windows shall be 6' wide by 3' high, horizontally sliding.

Headers over doors: 4x6 1500f gr DF
" " windows: 4x12 " " " on
S & W sides, 4x6 1500f gr DF on N & S sides.

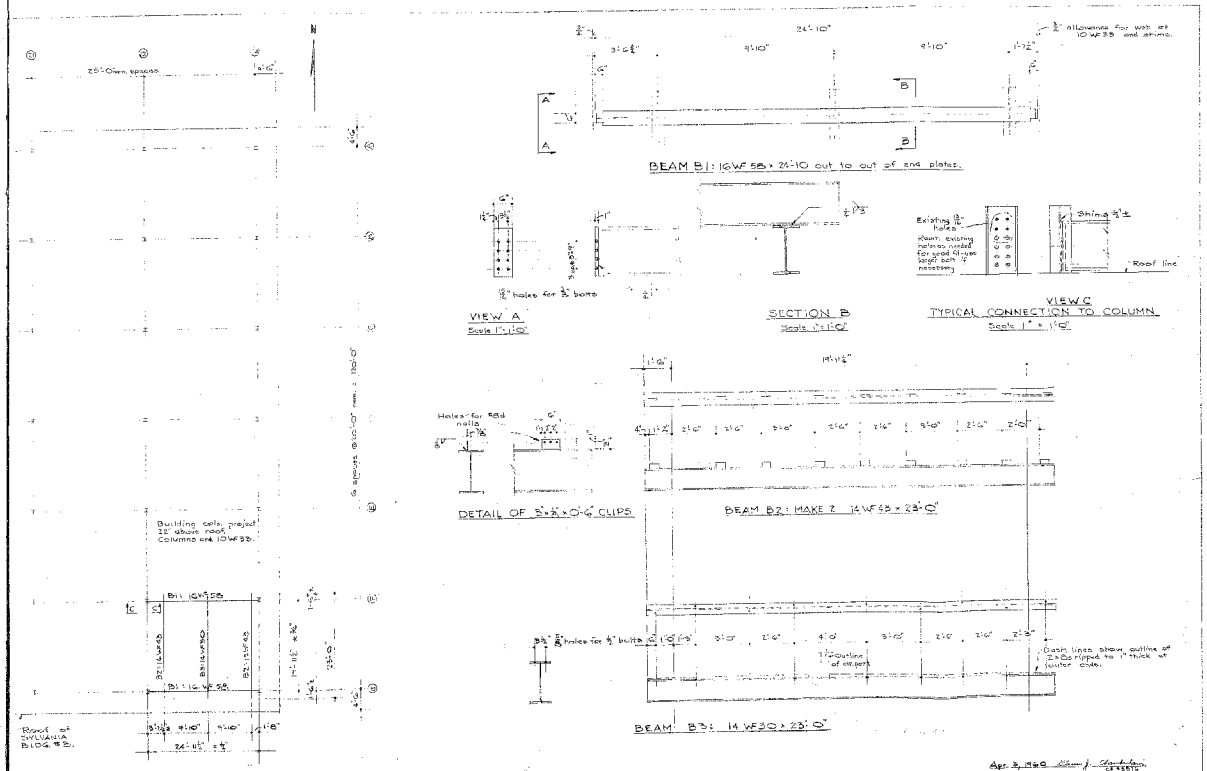
Nailing schedule:
Table 25-2 1950 U.S.C.
2" thick flooring: 2 #16 d to each joist 1" from edge.
Plywood: Edge nailing: #8 d @ 6".
Int. " " #8 d @ 6".

Apr. 3, 1960 Glenn J. Chamberlain CE 25511

Glenn J. Chamberlain, Civil Engineer
P.O. Box 484, Los Altos, California

PENTHOUSE FOR SYLVANIA BLDG. #3
RECONNAISANCE SYSTEMS LAB.

FLOOR & WALL FRAMING MVD-111



NOTES:
This structure is designed so that it may be moved to another bay, such as BC. When this is done the pickup points will be the ends of BEAMS B3 (the wooden structure gets in the way of any other support point).

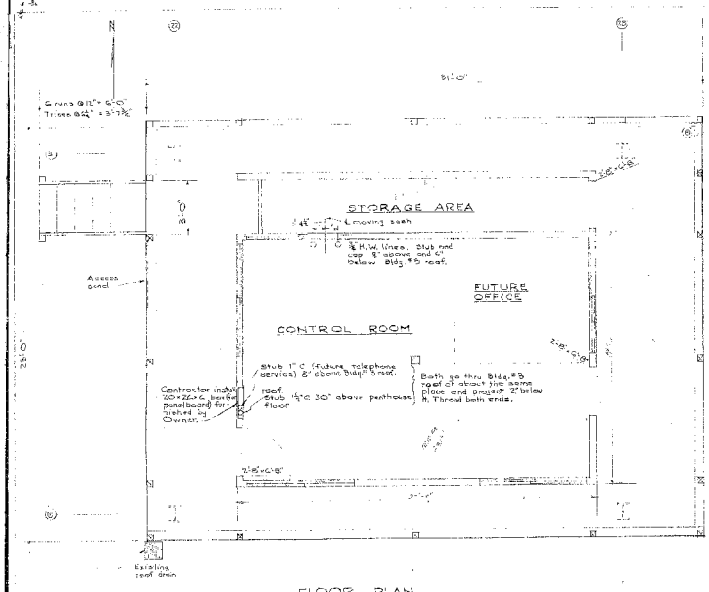
The existing bays have all been measured and the dimensions given (19'-11½" and 24'-11½") are averages. All bays are within the ¼" and ½" tolerances listed.
Contractor may build entire structure on ground & neat to position if he desires. Total deed wt. = about 20 tons.

Apr. 3, 1960 Glenn J. Chamberlain CE#5516

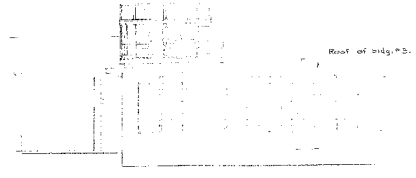
Glenn J. Chamberlain, Civil Engineer
P.O. Box 487, Los Altos, California

PENTHOUSE FOR SYLVANIA BLDG. #3.
RECONNAISSANCE SYSTEMS LAB.

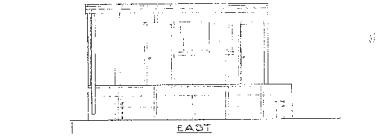
STEEL FRAMING MV0-110



FLOOR PLAN
Scale 3/8" = 1'-0"



COMPLETE EAST ELEVATION
Scale 3/8" = 1'-0"



EAST

SOUTH

WEST

NORTH

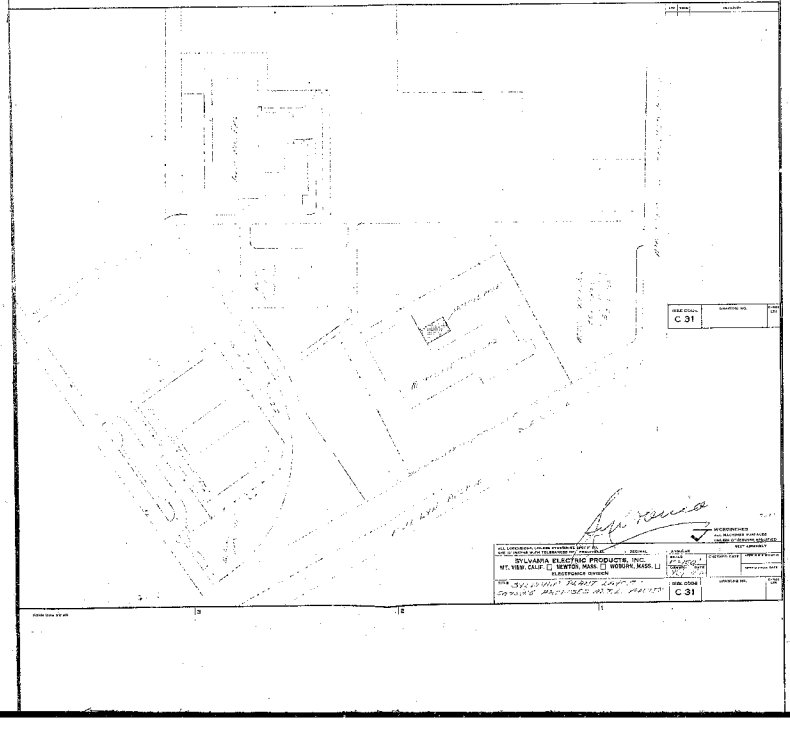
ELEVATIONS SHOWN WITH RAILINGS OMITTED
Scale 3/8" = 1'-0"

NOTES:
All windows: Redco Series #500 Sliding #6030. 72" × 35 5/16", rough opening 72 3/8" × 36 1/16".
Joists shall not be cut for installation of pipes or conduit, locations shown shall be altered as necessary to avoid cutting.
Exterior of walls: 1/2" AC grade exterior plywood with 7/8" × 4 R.W. butts over all joints.
A source for Dex-O-Tex Weatherwear roof deck covering is Mellot & Petersen Grundy, 2412 Harrison St., San Francisco 10, Calif. (AT water 2-1600).

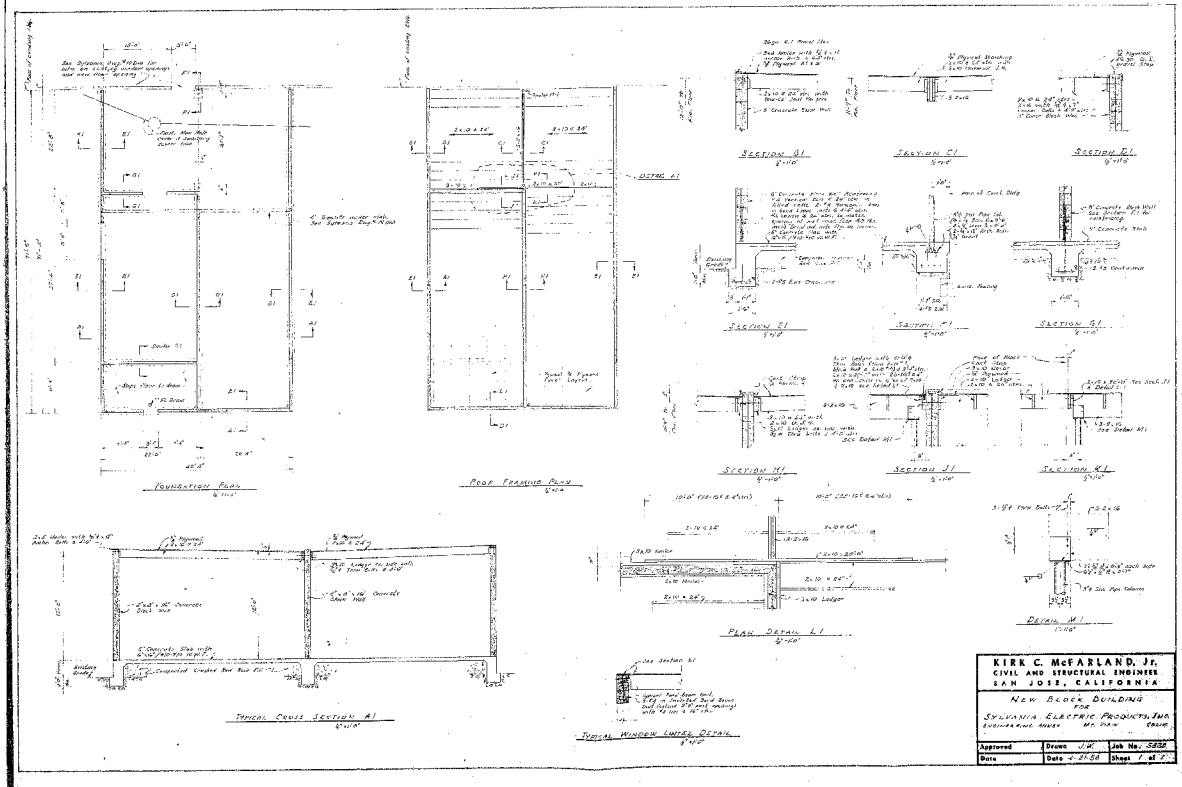
Glenn J. Chamberlain, Civil Engineer
P.O. Box 4891, Los Altos, California

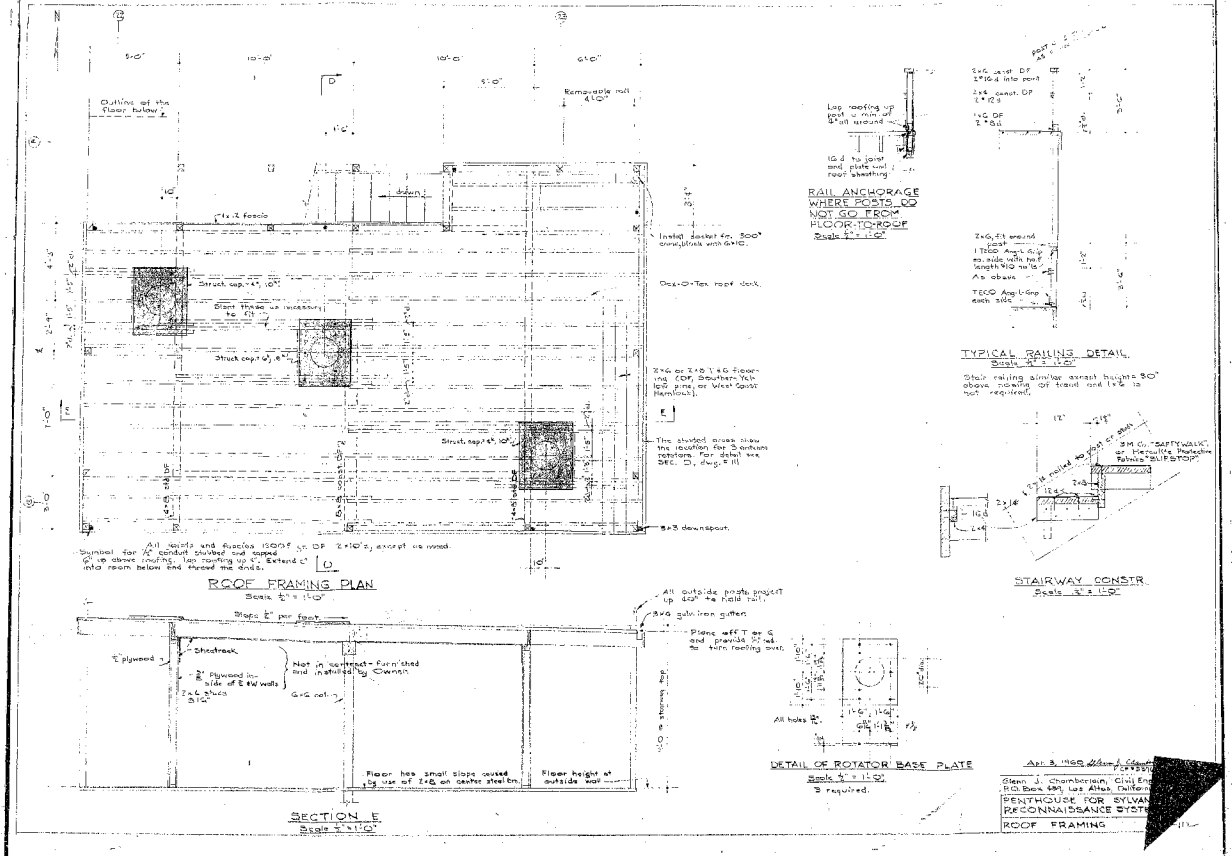
PENTHOUSE FOR SYLVANIA BLDG. #3
RECONNAISANCE SYSTEMS LAB.

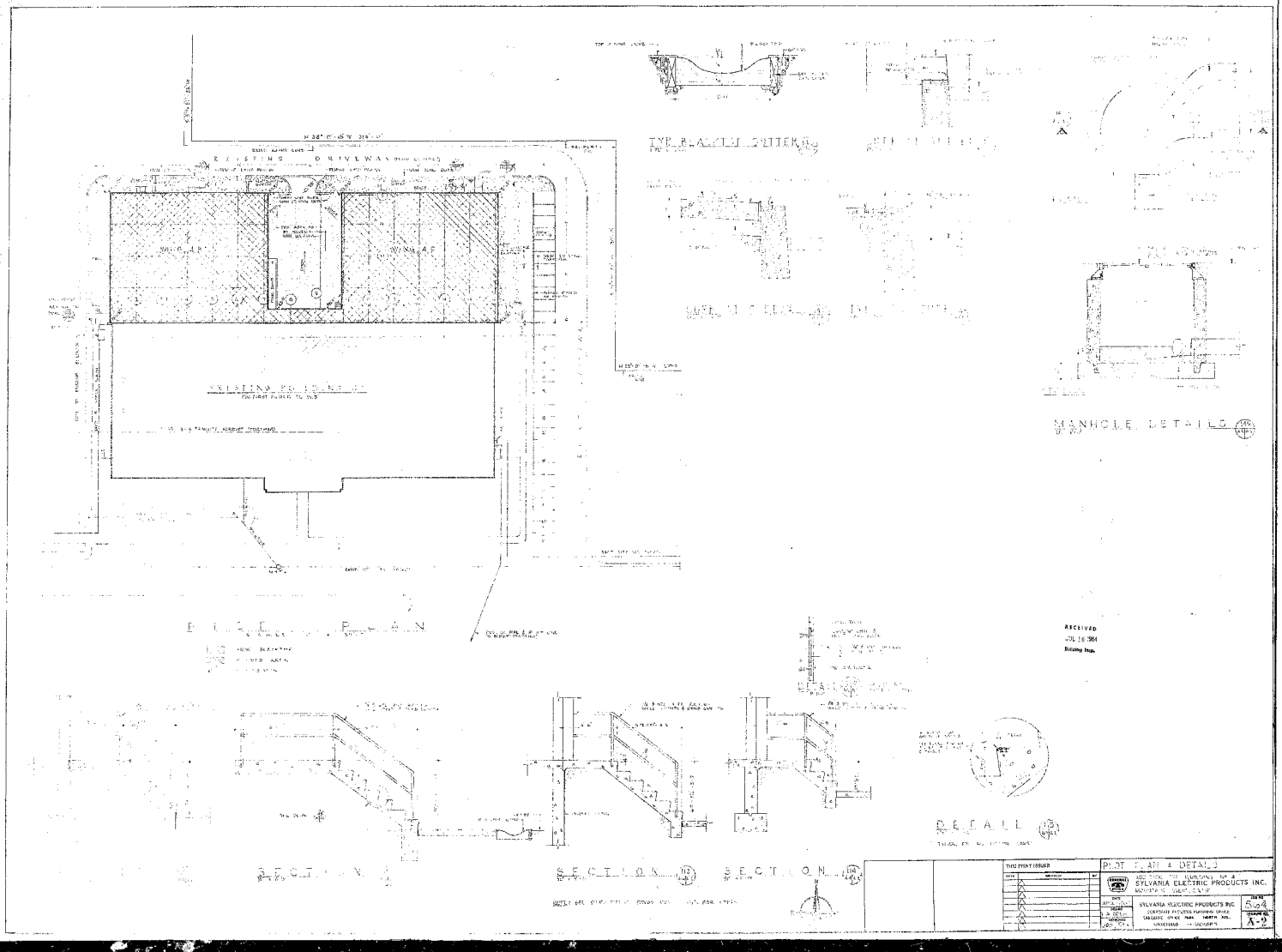
FLOOR PLAN & ELEVS. MVO-109

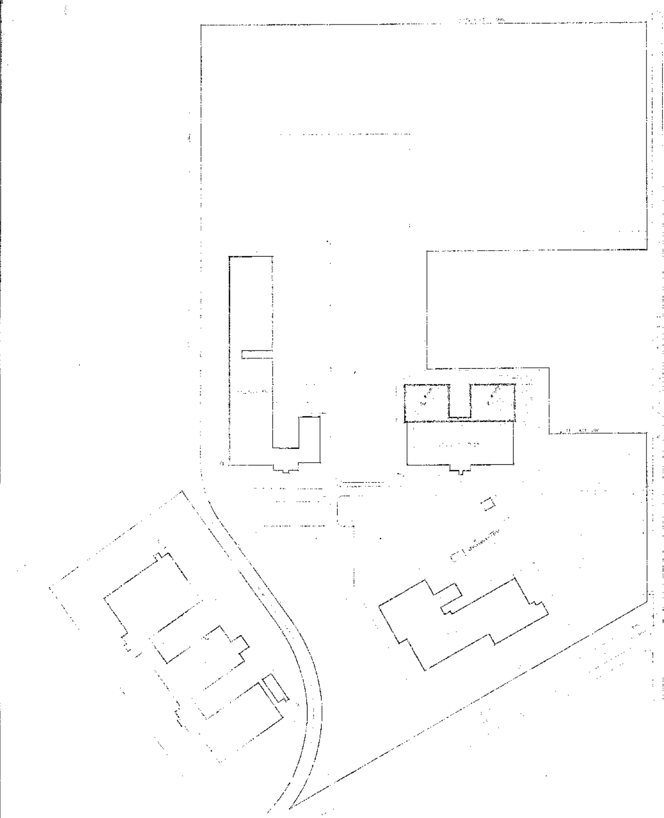


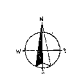
ISSUE CODE
C 31
SYLVANIA ELECTRIC PRODUCTS, INC.
MT. VIEW, CALIF. ☐ NEWTON, MASS. ☐ WOBURN, MASS. ☐
ELECTRONICS DIVISION
SYLVANIA PLANT LAYOUT
ISSUE CODE
C 31


FOUNDATION PLAN
ROOF FRAMING PLAN
TYPICAL CROSS SECTION A1
TYPICAL WINDOW LINTEL DETAIL
PLAN DETAIL L1
DETAIL M1
SECTION B1
SECTION C1
SECTION D1
SECTION E1
SECTION F1
SECTION G1
SECTION H1
SECTION J1
SECTION K1
KIRK C. McFARLAND, Jr.
CIVIL AND STRUCTURAL ENGINEER
SAN JOSE, CALIFORNIA
NEW BLOCK BUILDING
FOR
SYLVANIA ELECTRIC PRODUCTS, INC.
ENGINEERING ANNEX MT. VIEW CALIF.
Approved
Drawn J.W.
Job No. 5832
Date
Date 4-21-58
Sheet 1 of 1


Outline of the floor below
Removable roll 4'-0"
1"x 2" fascia
Strut, cap. 4", 10"
Strut, cap. 4", 10"
Strut, cap. 4", 10"
Insted basket fr. 500" overall, brk with G+10.
Dex-O-Tex roof deck.
2x6 or 2x8 T & G flooring (DF, Southern Yellow pine, or West Coast Hemlock).
The studed areas show the location for 3 cartons rotators. For detail see SEC. D, dwg. # 111
3x3 downspout.
All joists and fascias 1500# st. DF 2x10's, except as noted.
Symbol for 1/2" conduit stubbed and capped 6" as above roofing, lap roofing up 4". Extend 2" into room below and thread the ends.
ROOF FRAMING PLAN
Scale 1/4" = 1'-0"
Lap roofing up post 6 min. of 3 ply around
16 d to joist and plate and roof sheathing
RAIL ANCHORAGE WHERE POSTS DO NOT GO FROM FLOOR-TO-ROOF
Scale 3" = 1'-0"
2x6 joist DF 2"x6" d into post
2x6 const. DF 2"x12"
1x6 DF 2"x8"
2x6 ft around joist
1 TEGO Angle 6x6 eq. side with half length 4x6 on 16
As above
TEGO Angle L-Grp each side
TYPICAL RAILING DETAIL
Scale 3" = 1'-0"
Stair railing similar except height = 30" above nosing of tread and 1x6 is not required.
3M Co. "SAFETY WALK" or Hercules Protective Panels "SLIP STOP"
STAIRWAY CONSTR.
Scale 3" = 1'-0"
Slope 1/4" per foot
Shiplap
1/2" plywood
1/2" Plywood inside of E & W walls
2x4 studs 3'-0"
6x6 nat.
Not in contract - Furn'shed and installed by Owner
Floor has small slope caused by use of 2x6 on center steel fr.
Floor height at outside wall
All outside posts project up 42" to hold rail.
3x6 cast iron gutter
Plane off T or G and provide 1/2" rab to turn roofing over.
SECTION E
Scale 1/4" = 1'-0"
All holes 1/2"
DETAIL OF ROTATOR BASE PLATE
Scale 1/4" = 1'-0"
3 required.
Apr. 3, 1968
Glenn J. Chamberlain, Civil Eng
P.O. Box 489, Los Altos, California
PENTHOUSE FOR SYLVAN
RECONNAISSANCE STATI
ROOF FRAMING


EXISTING DRIVEWAY
WING 4B
WING 4F
EXISTING BUILDING
PLOT PLAN
TYP. BLACKTOP GUTTER
MANHOLE DETAILS
DETAIL
SECTION
SECTION
SECTION
RECEIVED
JUL 16 1984
Building Insp.
THIS PRINT ISSUED
PLOT PLAN & DETAILS
SYLVANIA ELECTRIC PRODUCTS INC.
SYLVANIA ELECTRIC PRODUCTS INC.
CORPORATE PROJECTS PLANNING OFFICE
CASCADE OVER PARK NORTH MA.
WATERTOWN MASSACHUSETTS
SCALE
A-2





TEST BORING LOGS

ABBREVIATIONS

ABBREVIATION	ABBREVIATED	ABBREVIATION	ABBREVIATED	ABBREVIATION	ABBREVIATED
ACCT.	ACCOUNTANT	FACT.	FACTORY	S.M.	SHEET METAL
A/C	AIR CONDITIONING	F.B.	FLAT BAR	SPCG.	SPACING
ADJ.	ADJUSTABLE	F.D.	FLOOR DRAIN	S/S	STRUCTURAL STEEL
ALT.	ALTERNATE	FIN.	FINISH	SS.	STAINLESS STEEL
ALUM.	ALUMINUM	FL.	FLOOR	STD.	STANDARD
ARCH.	ARCHITECTURE	F.L.	FLOW LINE	STL.	STEEL
AUX.	AUXILIARY	[illegible]	[illegible]	[illegible]	STRUCTURAL
BSMT.	BASEMENT	F.W.	FIELD WELD	SUB.	[illegible]
C.B.	CATCH BASIN	GA.	GAUGE	T.	TREADS
CEM. PL.	CEMENT PLASTER	GALV.	GALVANIZED	TEL.	TELEPHONE
C.I.	CAST IRON	GLZD.	GLAZED	TEMP.	TEMPERATURE
CLG.	CEILING	GYP.	GYPSUM	TYP.	TYPICAL
CMP	CORRUGATED METAL PIPE	HD. WD.	HARD WOOD	[illegible]	[illegible]
COL.	COLUMN	HT.	HEIGHT	URN	URINAL
COMP.	COMPRESSOR	JT.	JOINT	W/	WITH
CONC.	CONCRETE	LAM.	LAMINATED	W/O	WITHOUT
COND.	[illegible]	LAV.	LAVATORY	W.C.	WATER CLOSET
[illegible]	[illegible]	LOC.	LOCATION	WT.	WEIGHT
CONTR.	CONTRACTOR	MECH.	MECHANICAL	WWF	WELDED WIRE FABRIC
CTRS.	COUNTERSINK	M.O.	MASONRY OPENING	[illegible]	[illegible]
D.F.	DRINKING FOUNTAIN	N.I.C.	NOT IN CONTRACT	[illegible]	[illegible]
DIA.	DIAMETER	[illegible]	NOT TO SCALE		
DIM.	DIMENSION	O.C.	ON CENTER		
DIST.	DISTRIBUTION	OPG.	OPENING		
D.S.	DOWNSPOUT	PL.	PLATE		
DWG	DRAWING	PLBG.	PLUMBING		
EA.	EACH	POL.	POLISHED		
ELEV. OR EL.	ELEVATION	PROJ.	PROJECT(ING)		
E.O.	EVERY OTHER	R.	RISER		
EQUIP.	EQUIPMENT	REINF.	REINFORCE(MENT)		
E.F.	EACH FACE	REQD.	REQUIRED		
E.W.	EACH WAY	RM.	ROOM		
EWC.	ELEC. WATER COOLER	RWC.	RAINWATER CONDUCTOR		
EXIST.	EXISTING	SCHED.	SCHEDULE		
EXP.	EXPANSION	SIM.	SIMILAR		

KEY TO MATERIALS

EARTH

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JUL 15 1964
Building Insp.

THIS PRINT ISSUED

DATE	REVISION	BY

SITE PLAN

SYLVANIA ELECTRIC PRODUCTS INC.

SYLVANIA ELECTRIC PRODUCTS INC
[illegible] PLANNING OFFICE
LAKESIDE OFFICE PARK NORTH AVE
WAKEFIELD MASS.

DATE
DRAWN
APPROVED

ADDITION TO BUILDING NO. 4

MT. VIEW, CALIF.

SYLVANIA

SUBSIDIARY OF
GENERAL TELEPHONE & ELECTRONICS GT&E

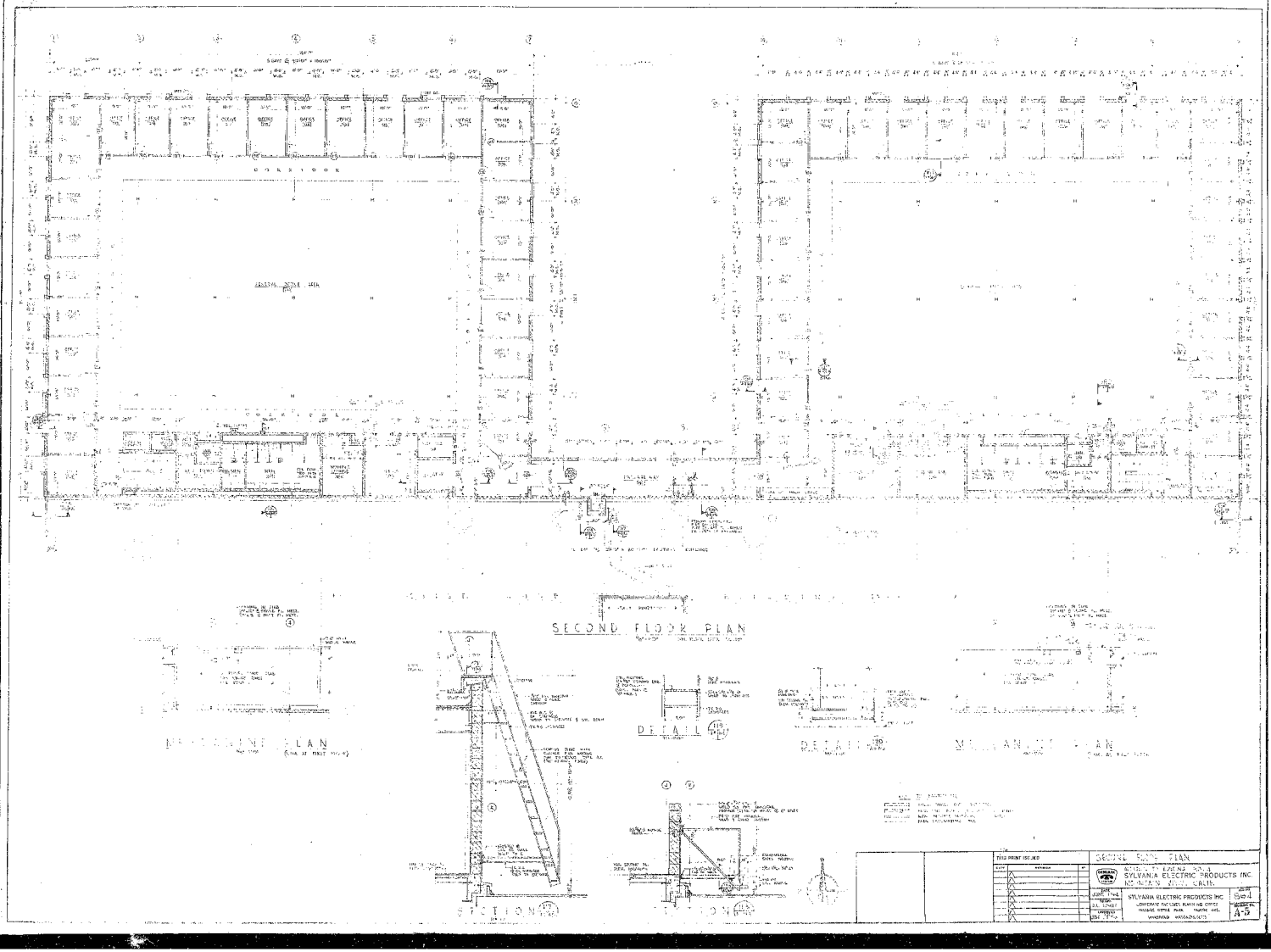
CHIN AND HENSOLT
SAN FRANCISCO, CALIF.
STRUCTURAL ENGINEERS

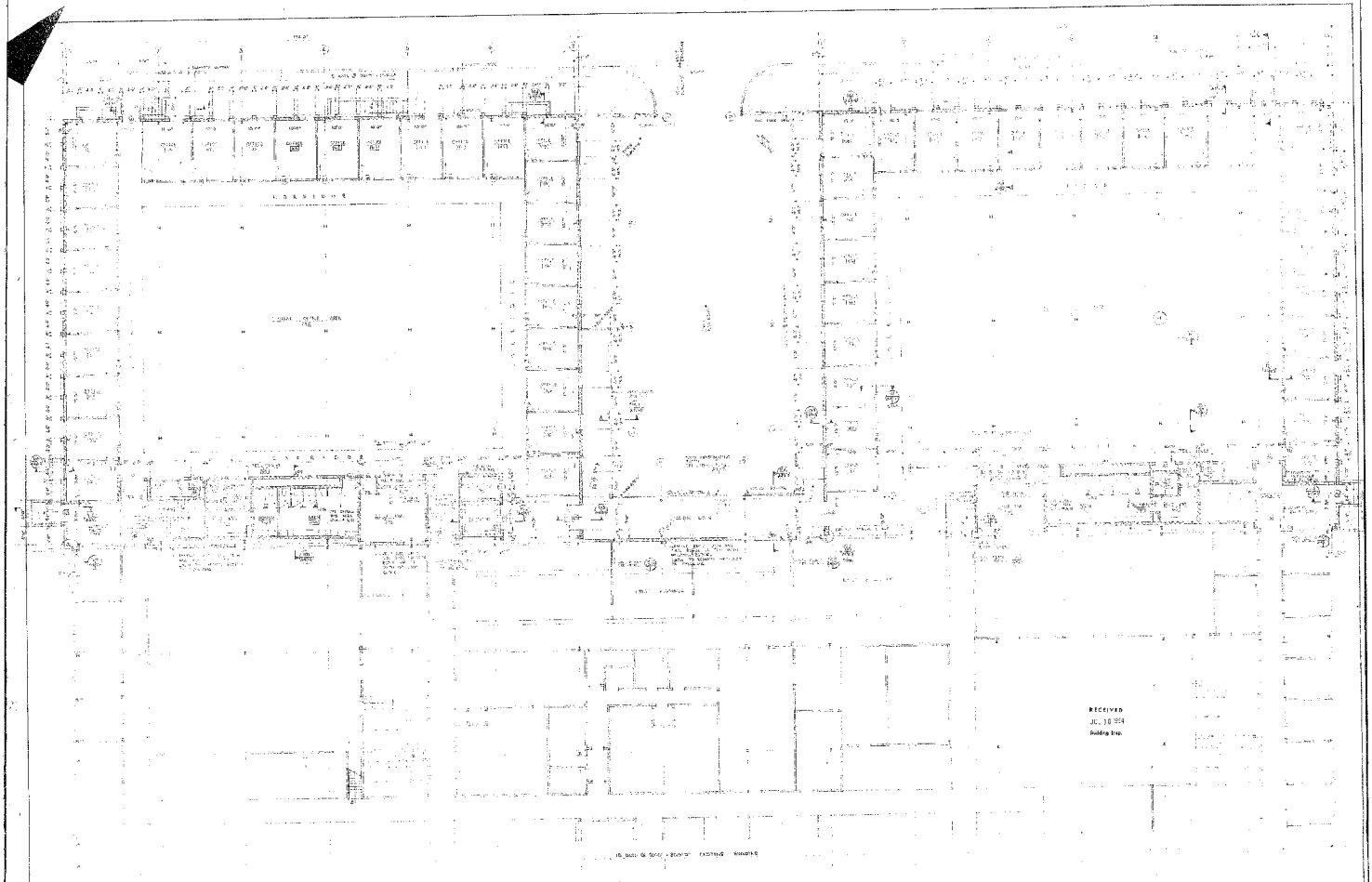
SYLVANIA ELECTRIC PRODUCTS INC.
CORPORATE FACILITIES PLANNING OFFICE
[illegible] OFFICE PARK NORTH AVE.
[illegible] ACHUSETTS

APPROVED
Engineering Department
J. K. [illegible]

APPROVED FOR CONSTRUCTION
DATE: 2-25-75
DATE: 2-25-75
CITY OF MOUNTAIN VIEW, CALIF.
[illegible]

RECEIVED
JUL 16 1984
Building Insp.


SECOND FLOOR PLAN
DETAIL
SECTION
SECOND FLOOR PLAN
SYLVANIA ELECTRIC PRODUCTS INC.
SYLVANIA ELECTRIC PRODUCTS INC.
A-5



FIRST FLOOR PLAN

SAY 30 ADDITIONS

[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]

THIS PRINT ISSUED

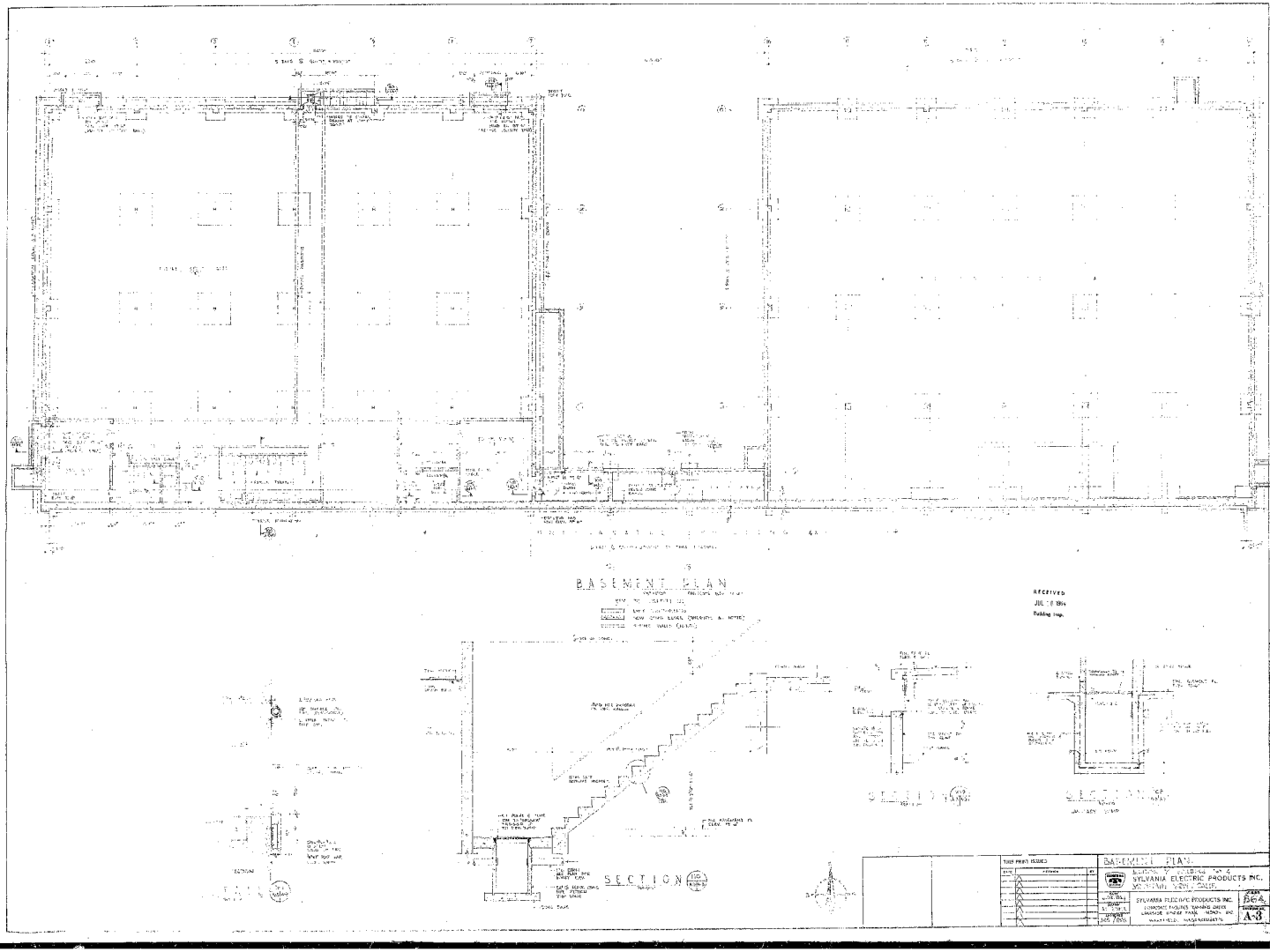
DATE	PROGRAM	BY

SYLVANIA ELECTRIC PRODUCTS INC.

SYLVANIA ELECTRIC PRODUCTS INC
CONSTRUCTION DEPARTMENT
TRENTON OFFICE PARK NORTH AVE
WATERFORD WASHINGTON

DRAWN BY [illegible]
CHECKED BY [illegible]

DRAWING NO. A-4


BASEMENT PLAN
SECTION
SECTION
SECTION
RECEIVED
Building Insp.
BASEMENT PLAN
SYLVANIA ELECTRIC PRODUCTS INC.
SYLVANIA ELECTRIC PRODUCTS INC.
A-3

F. ROUGH CARPENTRY

1. Framing Lumber:

a. Lumber shall be Douglas Fir (Coast Region), No. 1 Grade, ~~unless noted on plans 1 Quality~~.

b. ~~Body shall be standard grade.~~

Blocking & bridging shall be No. 3 or standard grade.

c. Lumber shall be grade marked in accordance with "Grading & Dressing Rules" PLB or West Coast Lumbermens Assoc.

d. Prior to occupance of the structure, the Owner or his representative shall verify that all framing lumber has a moisture content of 19% or less. ~~See additional requirements on page D-9.~~

2. Blocking:

a. ~~End walls: Provide 2x solid blocking at 4'-0" centers.~~

b. ~~Floor joists: Provide 2x solid blocking at all bearings and in solid blocking on walls, at wall cross bridging at 8'-0" o.c.~~

c. Roof joists or rafters: Provide 2x solid blocking at all bearings and at 12'-0" o.c. max.

3. Wood Nailing Connection:

a. All lumber shall be nailed in accordance with the following schedule unless noted on drawings.

Joists, all bearings	2 - 10d toe nails, each side, each end.
Stud. ~~joists, sullies to bearing~~	3 - 10d toe nails, each side, each end.
Multiple studs, joists	10d at 16" oc ~~between 1-2 rows for studs 1" to 2" in depth~~
Joists greater than 10" in depth	1/2" ø M.B. at 24" oc, placed within middle third.
3 or more multiple 2x's ~~and all multiple 3x's~~	1/2" ø M.B. at 24" oc, placed within middle third.
Double top plates Inner top plate to stud Upper top plate to lower top plate.	2 - 20d cnd nail each stud. 10d at 16" oc staggered, 1" plates 12'-0" min. At splice 6 - 10d each side of splice.
Blocking between joist To joist	2 - 10d toe nails each side, each end.
~~To plate on which joist rests~~	~~2 - 10d toe nails each side, each end.~~

b. Common wire nails shall be used throughout. Where wood tends to split, subdrill nail hole. Nails exposed to weather shall be galvanized.

4. Wood Bolted Connection:

a. Bolts in wood framing shall be standard machine bolts with standard malleable iron washers between head or nut and wood.

b. Bolt holes in wood shall be drilled 1/16" larger than diameter of bolt.

F. ROUGH CARPENTRY (cont'd)

5. Joist Hangers: ~~All ceiling not resting on or fastened over wood joists.~~

~~Joist hangers~~ shall be supported by means of "Simpson Strong-Tie" nails. The members shall comply with and be nailed in accordance with manufacturer's catalog. Unless otherwise noted on APP drawings the joist hangers shall be as follows:

a. 2x members - Type F(*) or F(1)(*) where top of joists, purlins, or beams are flushed (non-ceiling members use joist hangers for wall-ceiling joist, purlin or beam seat).

b. Equivalent type and size of joist hangers may be substituted, provided T.C.D.D. card is submitted to Engineer for approval prior to installation.

6. Plywood Sheathing:

a. ~~1/2" roof ply shall be group 1, C-D, int., with exty glue, 32/16.~~

b. 5/8" roof ply shall be C-D, int. with ext. glue 32/16

c. 3/8" roof ply shall be C-D, int. with ext. glue, 24/0

d. ~~Wall ply shall be Structural 1, C-D, interior with exterior glue.~~

e. ~~Floor ply shall be C-D, interior with exterior glue.~~

f. Where conditions of moisture occur possible use C-D exterior plywood in lieu of C-D interior grade (end of the APP for equal).

g. All ply shall bear the grade mark and butt along center line of framing member. Nails shall be placed 3/8" minimum from edge of sheet.

h. All joints shall be staggered; be placed 3/8" minimum from edge of framing member. Nails shall be at right angles to face grain of plywood. Top 1/2" roof ply shall be staggered with framing members ~~and nailed with framing members, unless otherwise noted on plans.~~

i. Face grain of plywood for 1/2" roof ply shall be perpendicular to framing members.

j. ~~Roof ply to be tongue and groove. Use ring shanked nails or screws.~~

k. Nailing shall be as follows: (Plywood nails may be used)

Area	Wood-stud	Boundary Nailing, nailers & chords (7)	Edge of Sheets (7)	Intermediate Nailing (7)	Blocking (3), (4), (5), (6)	Type of Fasteners
Roof	2x 4	10d at 6"oc	10d at 6"oc	10d at 12"oc	(1)	10d
Roof	2x 6	10d at 6"oc	10d at 6"oc	10d at 12"oc	(1)	10d
Roof	2x 8	10d at 6"oc	10d at 6"oc	10d at 12"oc	(1)(2)(3)	10d
Roof	2x 10	10d at 6"oc	10d at 6"oc	10d at 12"oc	(1)(2)(3)	10d
Roof	2x 12	10d at 6"oc	10d at 6"oc	10d at 12"oc	(1)(2)(3)	10d
Wall	2x 4	~~10d at 6"oc~~	~~10d at 6"oc~~	10d at 12"oc	(3)	10d

(1) Unbraced edge, 1 flexclip at 24" alone ~~and 2 flexclips at 48" apart~~.
(2) 2x4 (flat) Blocking, within area shown on Framing Plan.
(3) ~~2x4 Blocking~~.
(4) Special nailing within area shown on Framing Plan.
(5) Where ply sheet is less than 4'-0" wide, or 8'-0" long and 2x4 flat blocking, at all unblocked edges.
(6) ~~Provide 2 5/8" wide x 20 ga flat metal ties at all plate bearings and joist hangers.~~
(7) ~~For special nailing at water tight, see to be not used on the roof framing plan, see sections.~~

7. Stud Wall Framing - Rim Bearing

a. Do not frame non-bearing walls to a tight fit under roof framing, so that framing is free to deflect.

General Notes

1. GENERAL:

1. General Notes: Where notes and details are general and apply throughout the project unless otherwise noted or shown. Any and all discrepancies shall be reported to the Engineer.

2. Codes, Laws, Ordinances: All work shall comply with all pertinent Federal, State and local code requirements, laws and ordinances.

3. General Specifications: The latestest Institute of Architects General ~~Conditions of the Contract for Construction of Buildings~~ shall apply throughout the project.

4. Responsibility: This engineering office has been retained to assume responsibility for only the structural portion of this project.

5. Condition: Equipment supported by structure (Sprinkler Pipes, Mechanical Equipment, etc.) All items intended to be supported on, or from the structure, unless indicated within the structural drawings, shall be submitted to the Engineer prior to installation. ~~See Page 1 Page-B.~~

6. Shop Drawings: Or structural items, which do not comply with contract drawings, shall be submitted to the Engineer for approval prior to fabrication.

7. Waterproofing and Drainage: Waterproof walls and provide proper drainage where the finish grade adjacent to the exterior wall is above the building floor line.

2. EARTHWORK AND FOUNDATIONS

1. Building & Site Preparation:
   a. ~~Soil Test Report prepared for this site.~~
   b. Strip 6 inch minimum and/or, if suitable, use for top soil and/or remove excess from site.
   c. Engineered compacted fill, if required, shall be placed on top of compacted natural grade. ~~Between adjacent buildings fill~~ Fill shall be of approved material and shall be compacted to a minimum compaction of 90% to minimum as per ASTM D-1557-70 ~~fill shall be in layers not to exceed 12 inch~~.
   d. Engineered compacted fill under walks, or pavement, fill a suitable Engineer shall inspect and approve of the location, material, in place compaction, thickness, etc. ~~prior to placing any material.~~
   e. ~~Base Course Material: Base layer or Macadam.~~
   f. ~~Base Course Material shall be compacted to 95% ASTM D-1557-70.~~

2. Foundations:
   a. ~~See Soil Report prepared for this site.~~
   b. For footing size and depths see drawings. For bearing capacities, see calculations.
   c. Footings shall be cast on firm, undisturbed original virgin soil, unless detailed.
   d. ~~See note under 2b for footing bottom.~~

3. REINFORCED STEEL

   a. Reinforcing shall conform to ASTM A-615 - 60 except for bars which shall be cold-drawn conformed to ASTM A-82 and A-185.
   b. All reinforcing bars which cantilever perpendicular concrete elements shall be hooked, placed 2 inches clear from outer face of element.
   c. Standard hooks shall comply with CRS. No. Detn., "Manual of Standard Practice for Detailing Reinforced Concrete Structures", ACI-315. Use recommended edges 90° hook. (Dbl. tie shall have 135° hook size 4" extension).
   d. Bar splice shall be 40 bar diameters.
   e. Bar splice shall be 30 bar diameters. Stagger splices 40 bar f.
   f. Minimum concrete protection over reinforcing or structural steel shall be as follows:
      1" where concrete is deposited against forms, but its surface is exposed to weather and ground.
      2" where concrete is deposited against forms, but its surface is not exposed to weather or ground.
      ~~3/4" for slabs and walls where concrete is not exposed to weather or ground.~~
      ~~1-1/2" for beams and columns.~~
      ~~1-1/2" for precast-cast where exposed to weather.~~
      Lap W.W.F. at edges with 2" min. overlap between adjacent sheets when and a minimum total overlap of 8".
   g. Weld: Steel to be welded shall have a max. sulphur content of 0.05%.
   h. Electrodes shall be A-7018.

4. CONCRETE

   1. General
      a. Concrete supplier shall provide evidence of guaranteed strength.
      b. Concrete shall develop a minimum ultimate compressive strength at 28 days and shall comply with the following:

Item	psi (kg/cm.sq.)	Slump (max.)	Aggregate (max.)
Footings	3000	3	1 1/2
Slabs on Grade	3000	3	1
Walls	3000	4	3/4
~~Columns~~	~~3000~~	~~4~~	~~3/4~~
~~Frame Beams, Joists~~	~~3000~~	~~4~~	~~3/4~~
~~Slabs~~	~~3000~~	~~4~~	~~3/4~~

      c. Shoring or Form Removal:
         Footings . . . . . 1 day minimum
         Walls . . . . . 3 days minimum
         Column
         Frame Beams, Joists or Slabs 28 days minimum, providing concrete has obtained its strength.
      d. Mix concrete and its placement shall be in accordance with ACI-301 and ACI-318.
      e. Concrete shall not be dropped freely where reinforcement bars will cause segregation; nor shall it be dropped freely more than six (6) feet. Spouts or elephant trunks shall be used to prevent segregation.
      f. The Contractor shall submit the locations & weights of all construction equipment, cranes, derricks, etc. to be supported on the structural frame system, to the Engineer, for approval. The floor structure has been designed for minimum loads.
      g. The Contractor shall submit the location & details of the construction joints at the frame structural system, to the Engineer for approval.

THOMAS ARCOT
ZONING ADMINISTRATOR
CITY OF MONTEBELLO, CALIFORNIA

1 of 1

APPLICATION NO. 1984-26-DA

DATE: Sept 4, 1984

THIS REPORT IS SUBMITTED IN ACCORDANCE WITH THE PROVISIONS OF THE ZONING ORDINANCE

APPLICANT'S NAME: Henry L. Stecher for GTE Sylvania Inc. (Name) (R.)

STREET ADDRESS OF PROPERTY: 1500 Potrero Drive

REQUEST: Request for Site Plan and Architectural Approval for construction of a 5ft square foot concrete block building in conjunction with an existing industrial complex.

APPROVAL ☐ DISAPPROVED ☐ CONDITIONALLY APPROVED ☒ CONFIRMATION ☐ OTHER ☐

CONDITIONS OF APPROVAL:

This item is exempt from the requirements of CEQA.

Since the proposed building is an improvement over the existing structure and is located in an area not generally subject to public view, it is approved subject to the following conditions:

1. The building permit drawings must bear state seal and signature of a licensed architect as required by state law.

2. As restricted by the applicant, this building shall not be used for storage or any chemicals or hazardous materials.

3. Compliance with the CITY Building Security Ordinance, Chapter 8, for commercial buildings according to the standard sheets the applicants.

4. An insurance policy must be submitted in order to allow the Engineering Department to complete the processing of the Street Improvement Agreement and issue their work permit of a previous application and approval.

5. The applicant is required that a base-line commitment for landscaping and installation of turf screens on this property to start active. The applicants are encouraged to coordinate the landscaping with the developers of the adjacent site to the north since they are shortly going to be landscaping along the common property line adjacent to the proposed building.

6. Satisfied to be painted a compatible color with the rest of the buildings on site i.e. tan.

DATE OF HEARING: Sep 4, 1984

Michael L. Perez for
Steve Lodmer, ZONING ADMINISTRATOR

PROVISIONS OF THE ZONING ORDINANCE MAY BE APPEALED TO THE CITY COUNCIL BY COMPLETING A FORM AVAILABLE FROM THE CITY CLERK. APPEALS MUST BE FILED WITHIN 10 WORKING DAYS OF THE DATE OF FILING.

Form No. 1 (Rev. 4-78)

NO BUILDING PERMITS MAY BE OBTAINED UNTIL CONSTRUCTION BEGINS

GUEST W. WELLS, JR. & ASSOCIATES, CONSULTING ENGINEERS
Richard A. Fuchs, Associate
7631 Florence Ave., Suite 5, Downey, Calif. 90240
(213) 923-9956

Date Rec'd
Job 7-84-56
Date 8-23-84

Building Name: Laser Bldg. for Sylvania

Location: Nwc. North Wilman
Mt. View, Calif.

APPROVAL DATA SHEET

Sheet	Number of Detail	Type of Detail and Trade
C	2,4,8,9,10	General Notes and Index
~~S~~		~~Foundation Sections~~
7	23, 24	Foundation, First Floor
~~S~~		~~Details~~
~~S2~~		~~Second Floor~~
~~S~~		~~Roof~~
~~S~~		~~Sheet~~
~~E~~		~~Sheet Electrical~~
~~M~~		~~Sheet~~
~~P~~		~~Sheet Plumbing~~

Total Number of Sheets in Set (7)

Drawing Number	Drawing Title
8-1 of 2	Site Location Plan
8-2 of 2	Rough Grading Plan, Elev. Sect
	See Sheet 8, Page 6-3

LATERAL

① Seismic Factors.

N-S

$T = \frac{0.05 \times h_n}{\sqrt{18.5}} = 0.14$

$C = \frac{1.05}{\sqrt[3]{T}} = 0.095$ $K = 1.1$

$V = 1.4 \times 1.33 \times \ldots W = 0.133 W$

E-W

$T = \frac{0.05 h_n}{\sqrt{34.5}} = 0.108$

$C = \frac{0.05}{\sqrt[3]{T}} = 0.105$

$V = (1.33) \times 0.105 W = 0.14 W$

② Lateral Loading

N-S

q_{NS} = Rf: (9.9 #/ft)(0.133)(15.5') = 24.4
wall = (57.2)(0.133)(h/2)(2) = 95.8
= 110.2 #/ft

E-W.

q_{EW} = Rf: (9.9 #/ft)(0.14)(l) = 45.1
Wall: (57.2)(0.14)(h/2) 2 = 78.7
= 143.8 #/ft

③ Diaphragm N.S.

$Q_{NS} = q_{NS} \frac{l}{2} = 3.8^k$ $V_{NS} = 1.9^k$

Chord $\frac{q_{NS} l^2}{8 \cdot d}$ = 834 # $v = \frac{V}{l}$ = 103.6 #/ft

#5 Rebar.

Bonding per angle 200 #/ft

* Roof sheathing ... 5/8" P.ly. ... cc

* $\frac{2T}{l}$ = 173 #/ft

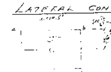
* Sub-Diaphragm ...

Use 200 #/ft

Use #5

③

LATERAL CONT.



④ Sub Diaph. E.W.

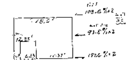
S.D. 1 = 6' × 18.5'

Rf: (9.9 ...) = 76.5 #/ft
wall: ... = 73.8 #/ft

Q_{SD-1} = 200 #/ft × ... = 3.7k $V_{SD} = 1.9^k$
$v = \frac{V}{6}$ = 316.7 #/ft

2×4 blk. 10d @ 6" cc

S.D.-2 = 12 × 18.5'
V_{SD-2} = 1.9k $v = \frac{V}{12}$ = 158.3 #/ft
2×4 blk. 10d @ 6" cc



⑤ Wall cd

Dowels: 2 × v_{cd} = 375 #/ft × 18.5/12 = 609 #/ft
#4 @ 8" cc = 350 × 1.33 × 12/8 = 698 #/ft OK

Dowels: 2 × 139.6 = 279 #/ft E-W
#4 @ 16" cc = 350 × 1.33 × 12/16 = 349 #/ft OK

$\frac{M}{VH}$ = ... = 0.5

∴ v_{all} = 21 #/□"

v_{act} = ... = 10.7 #/□" OK

Use #5 each end

M_{oT} = ... OK

PROJECT: LASER PLANT for SYLVANIA

Location: Near North Atlanta Rd. Atlanta, GA

Architect: Client

Engineer: Client

Bldg. Code: Client

Thesis: Client

Bldg. Code: Client Occupancy: Fire Dept.

Survey by: Client Type of Const.:

Soil Report by: Client Bldg. Use: Laser Lab

Seismic Soil Profile: Client

	Depth	Type
DL = (Real/Perm) LL =		
DL = (Work/Code) LL =		

Ground Water: None found

Miscellaneous: Type: Client

Stairs: Client Kitchen: Client Grease: Client Brief Sr. 6'-10" Sheetrock: Client Insulation: Client

Plan Lth. Bldg. Lt.

Roofing
Fr. Bldg.
Shipping
Fcil.
Ventilation
Ceiling
Stairs
Doors
Sash
Glass
Art
Wall
Rec. Room

Elev.
Feder.
Area
Basic Lt.
Eq. Ch.

Index — Division — Page Numbers

General	C	C1	Inclusive
Foundations	B	B1	Inclusive
Columns	E	E1	Inclusive
Floor	F	F1	Inclusive
Sound, Thermal	G	G1	Inclusive
Interior Finish	H	H1	Inclusive
Services	S	Service	Inclusive
Total Pages		4	

Joist Roof - 2x10 @ 24" o.c. D.F. #1

$S = 115$

$\Omega = (37 \cdot 20)/2 = 370$ $M = 370 \cdot 10 = 3700$

$M = 2422$ $f_b = 3700/2422 = 1.53$

Masonry Bearing & Spandrel

$S = 0.33 \cdot 12 \cdot 7.66$

$\Omega = M \cdot 20 \cdot 12 = 7$ 1%

$M = 370 \cdot (1 - 2/3) = 246$

$\Omega = 246$

$M = 20 \cdot 12 = 1.67$

$M = \frac{20}{8} = 2.5$

$f_b = \frac{M}{S} = 0.65$ OK

$M_{bw} = 17.5 \cdot 1.5 = 26$ OK

$V = \frac{\Omega}{2d} = 0.75_{bw}$

Foundation 18" Cont. ftg.

$M = (\frac{3.5 + 2.5}{2}) \cdot 1/2 (1.5^2)$

$M = 0.75 \cdot (2.7)$

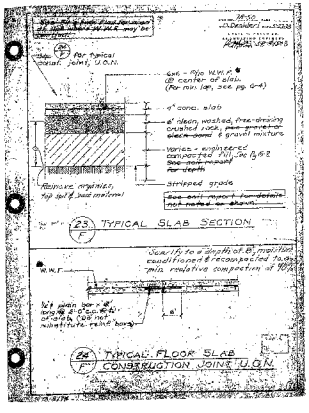
	DL	LL
	72	272
	126	756
f	1.75	10.5
f'	3.0	6.0

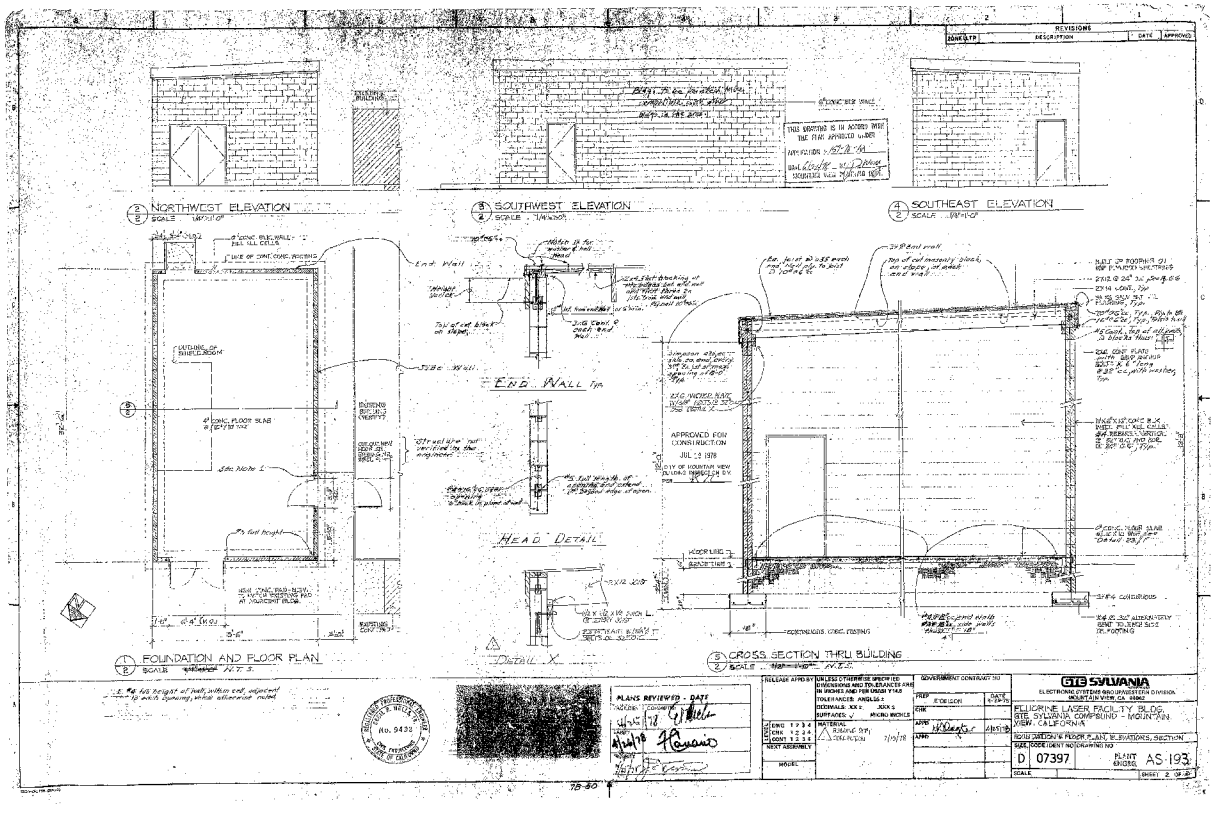
4. CONCRETE MASONRY UNITS

a. All concrete masonry units shall be 8 x 8 x 16, except as otherwise noted or shown.
b. All cells shall be filled with grout.
c. Walls shall be common wood.
d. Provide clean-out openings at all cells at the bottom of all grout lifts exceeding 10" in height. The inside of all cells shall be free of all debris. Send clean-outs before grouting.
e. Grouting shall be done in lifts not exceeding 3 feet. When grouting is stopped for one hour or more, the pour shall be held 1½" below the top of the uppermost unit.
f. Concrete masonry units shall be of standard weight conforming with ASTM C-90-59 Grade A specifications.
g. Mortar shall be Type S conforming to ASTM C 270-59T specifications.
h. Grout shall conform to the same specifications as mortar with provision that water be added to produce a consistency for pouring without segregation. 3000 psi minimum ultimate strength shall be attained in 28 days.
i. See sections for reinforcing.
j. Splice all bars 40 ⌀ minimum unless otherwise noted on section.
k. All openings shall be shoned until grout has obtained its 28 day strength.

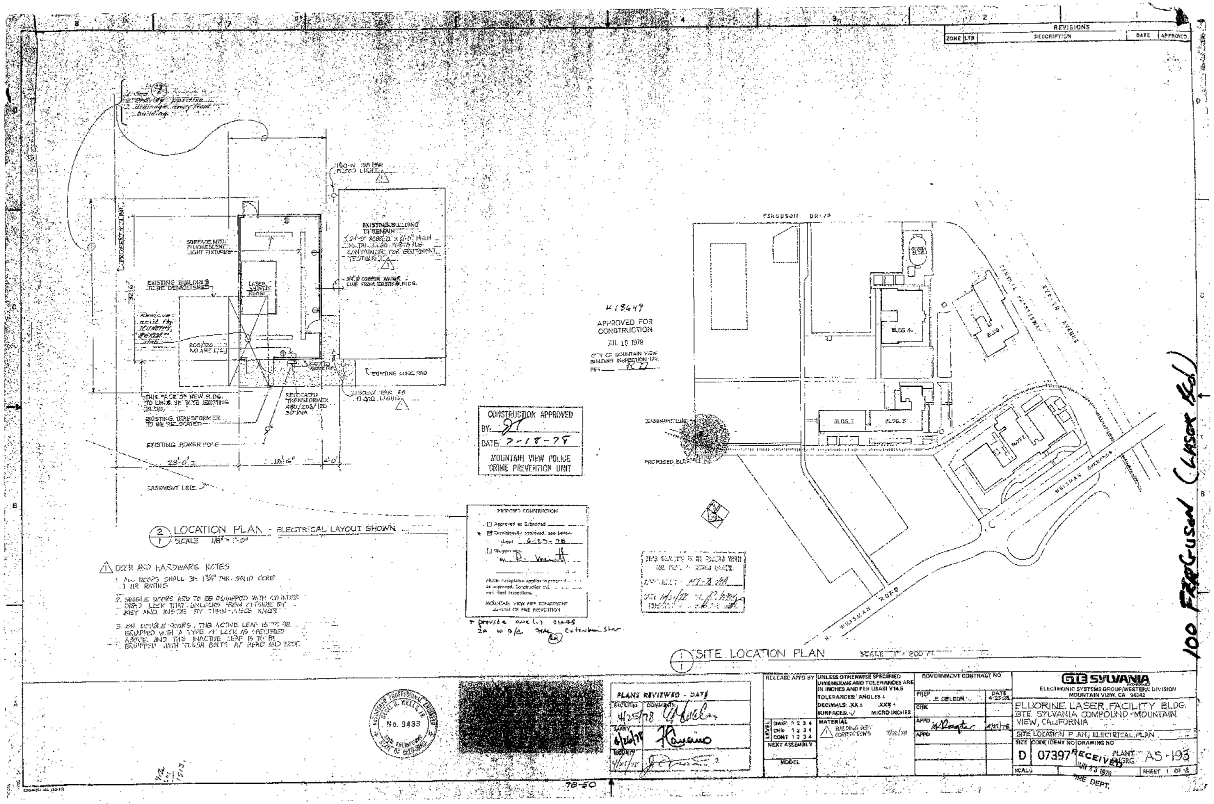
R. See Unit Bulk. Chart

30-69
8-70



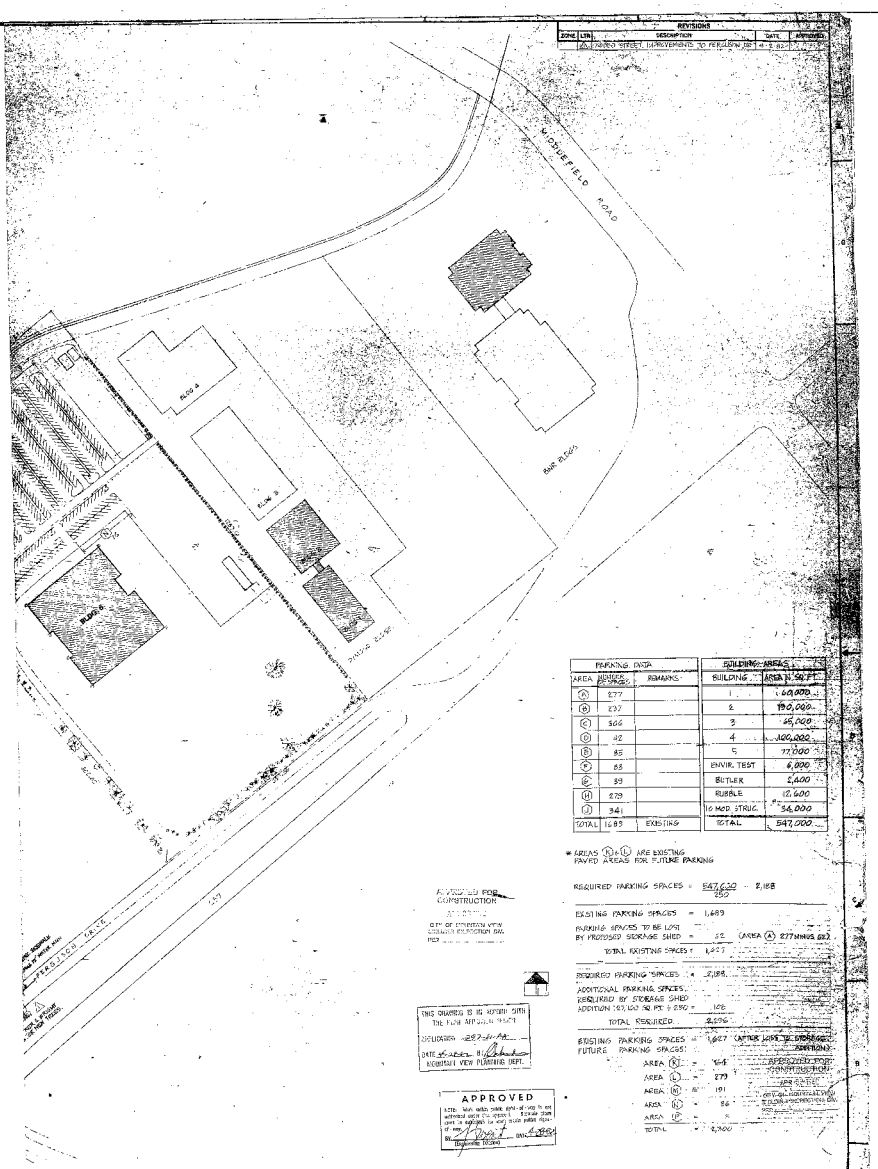


REVISIONS
ZONE LTR
DESCRIPTION
DATE
APPROVED
NORTHWEST ELEVATION
SOUTHWEST ELEVATION
SOUTHEAST ELEVATION
END WALL
HEAD DETAIL
DETAIL X
APPROVED FOR CONSTRUCTION
FOUNDATION AND FLOOR PLAN
CROSS SECTION THRU BUILDING
PLANS REVIEWED - DATE
No. 9432
GTE SYLVANIA
ELECTRONIC SYSTEMS GROUP/WESTERN DIVISION
MOUNTAIN VIEW, CA. 94042
FLUORINE LASER FACILITY BLDG.
GTE SYLVANIA COMPOUND - MOUNTAIN VIEW, CALIFORNIA
FOUNDATION & FLOOR PLAN, ELEVATIONS, SECTION
D
07397
PLANT ENGRG.
AS-193
SCALE
SHEET 2 OF 2



REVISIONS
ZONE LTR DESCRIPTION DATE APPROVED
EXISTING BUILDING TO REMAIN
EXISTING BUILDING TO BE DEMOLISHED
LASER SUPPORT ROOM
EXISTING POWER POLE
EASEMENT LINE
28'-0"
#18649
APPROVED FOR CONSTRUCTION
JUL 18 1978
CITY OF MOUNTAIN VIEW BUILDING INSPECTION DIV.
CONSTRUCTION APPROVED
DATE 7-18-78
MOUNTAIN VIEW POLICE CRIME PREVENTION UNIT
LOCATION PLAN - ELECTRICAL LAYOUT SHOWN
DOOR AND HARDWARE NOTES
FERGUSON DRIVE
BLDG. 4
BLDG. 1
BLDG. 2
BLDG. 3
PROPOSED BLDG.
CENTRAL EXPRESSWAY
EVELYN AVENUE
N. WHISMAN ROAD
SITE LOCATION PLAN SCALE 1" = 200 FT.
100 FERGUSON (Laser Bld)
PLANS REVIEWED - DAYS
No. 9433
RELEASE APPD BY
UNLESS OTHERWISE SPECIFIED DIMENSIONS AND TOLERANCES ARE IN INCHES AND PER USASI Y14.5
TOLERANCES: ANGLES ±
DECIMALS: .XX ± .XXX ±
SURFACES: √ MICRO INCHES
LEVEL DWG 1 2 3 4 CHK 1 2 3 4 CONT 1 2 3 4
NEXT ASSEMBLY
MODEL
MATERIAL
BUILDING DEPT CORRECTIONS 7/19/78
GOVERNMENT CONTRACT NO
PREP E. GELEON DATE 4-25-78
CHK
APPD 4/21/78
APPD
GTE SYLVANIA INCORPORATED
ELECTRONIC SYSTEMS GROUP/WESTERN DIVISION
MOUNTAIN VIEW, CA 94042
FLUORINE LASER FACILITY BLDG.
GTE SYLVANIA COMPOUND - MOUNTAIN VIEW, CALIFORNIA
SITE LOCATION PLAN, ELECTRICAL PLAN
SIZE D
CODE IDENT NO 07397
DRAWING NO PLANT ENGRG. AS-193
RECEIVED JUN 23 1978 FIRE DEPT.
SCALE
SHEET 1 OF 2
78-60

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
	A	ADD STREET IMPROVEMENTS TO PER FLOW REV 4-5-82		



PARKING DATA		
AREA	NUMBER OF SPACES	REMARKS
A	277	
B	237	
C	306	
D	42	
E	85	
F	88	
G	39	
H	229	
I	341	
TOTAL	1683	EXISTING

BUILDING AREAS	
BUILDING	AREA IN SQ. FT.
1	60,000
2	190,000
3	45,000
4	100,000
5	77,000
ENVIR. TEST	6,000
BUTLER	2,400
RUBBLE	12,600
16 MOD. STRUC.	56,000
TOTAL	547,000

* AREAS (K) & (L) ARE EXISTING PAVED AREAS FOR FUTURE PARKING

APPROVED FOR CONSTRUCTION
BY
CITY OF SUNNYVALE
CONDITIONAL ELEVATION DWG.
PC3

REQUIRED PARKING SPACES = 547,000 / 250 = 2,188

EXISTING PARKING SPACES = 1,683
PARKING SPACES TO BE LOST = —
BY PROPOSED STORAGE SHED = 22 (AREA (A) 277 MINUS 255)
TOTAL EXISTING SPACES = 1,661

REQUIRED PARKING SPACES = 2,188
ADDITIONAL PARKING SPACES REQUIRED BY STORAGE SHED
ADDITION: 50,000 SQ. FT. ÷ 250 = 100
TOTAL REQUIRED 2,288

EXISTING PARKING SPACES = 1,661 (AFTER LOSS TO STORAGE SHED)
FUTURE PARKING SPACES:
AREA (K) = 164 (APPROVED FOR CONSTRUCTION)
AREA (L) = 273 (APPROVED FOR CONSTRUCTION)
AREA (B) = 191 (APPROVED FOR CONSTRUCTION)
AREA (E) = 86 (CITY OF SUNNYVALE CONDITIONAL ELEVATION DWG. PC3)
AREA (P) = 6
TOTAL = 2,380

THIS DRAWING IS IN ACCORD WITH THE FLOW APPROVED PLAN
APPLICANT 287 Ind Ave
DATE 5-4-82 BY
ACCEPTANCE VIEW PLANNING DEPT.

APPROVED
NOTE: Work within public right-of-way to be performed under the direction of Sunnyvale Dept. of Public Works. Contact Engineering for work permit prior to start of work.
BY Engineering Division DATE 4-29-82

PLANS REVIEWED		
		DATE

RELEASE APPD BY

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE TOLERANCES ARE FOR INCHES AND PER ANSI Y14.5
TOLERANCES: ANGLES ±
FRACTIONS: .XX ± .XXX ± MICRO INCHES
SURFACE FINISH

DWG	1 2 3 4	
CHK	1 2 3 4	
CONT	1 2 3 4	
MAT ASSEMBLY		

MODEL

SITE LOCATION PLAN, PARKING COUNT - EXISTING & FUTURE

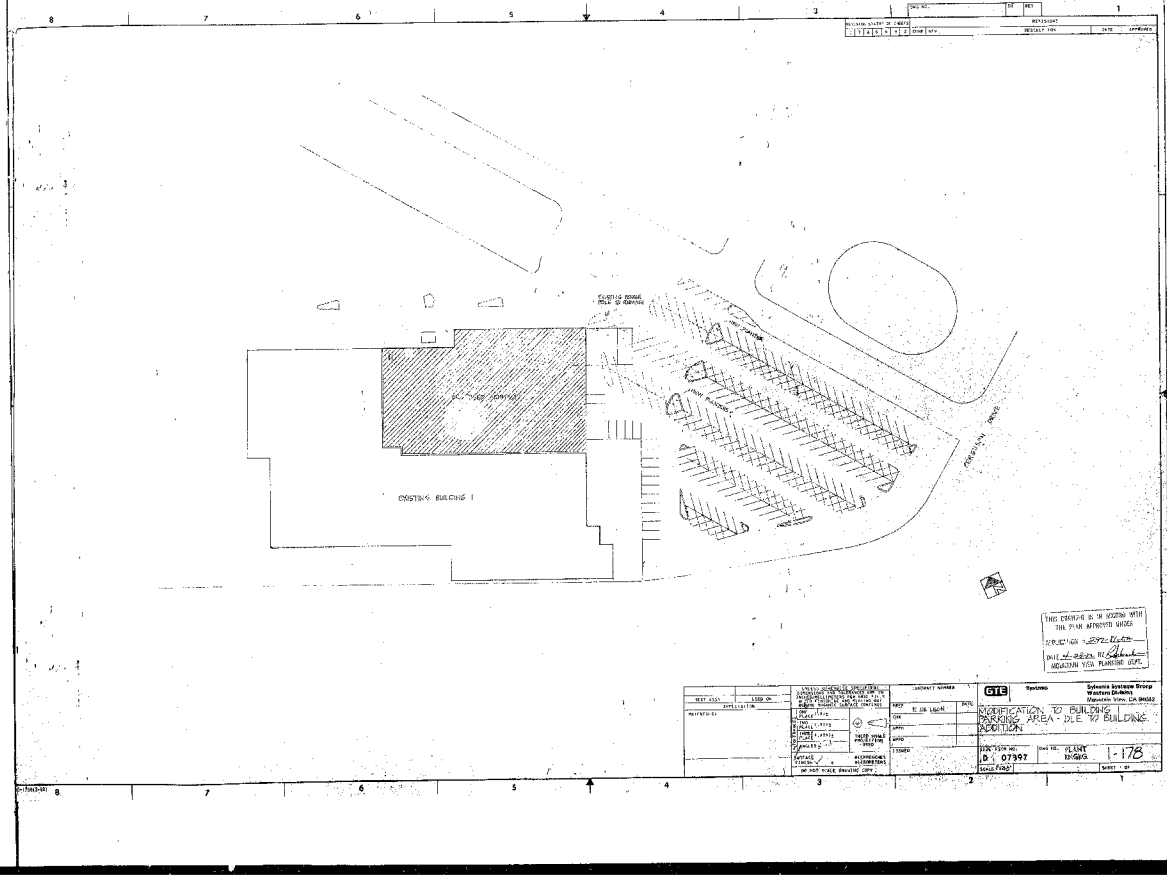
GOVERNMENT CONTRACT NO

		DATE
PROJ	E. DOLAN	
CHK		
APPD		
APPD		

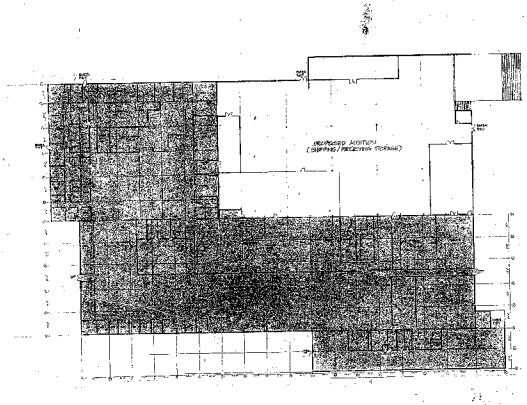
GTE Sylvania — Sylvania Systems Group, Western Division, Mountain View, CA 94042

ADDITION TO BUILDING 1 - SHIPPING RECEIVING AREA

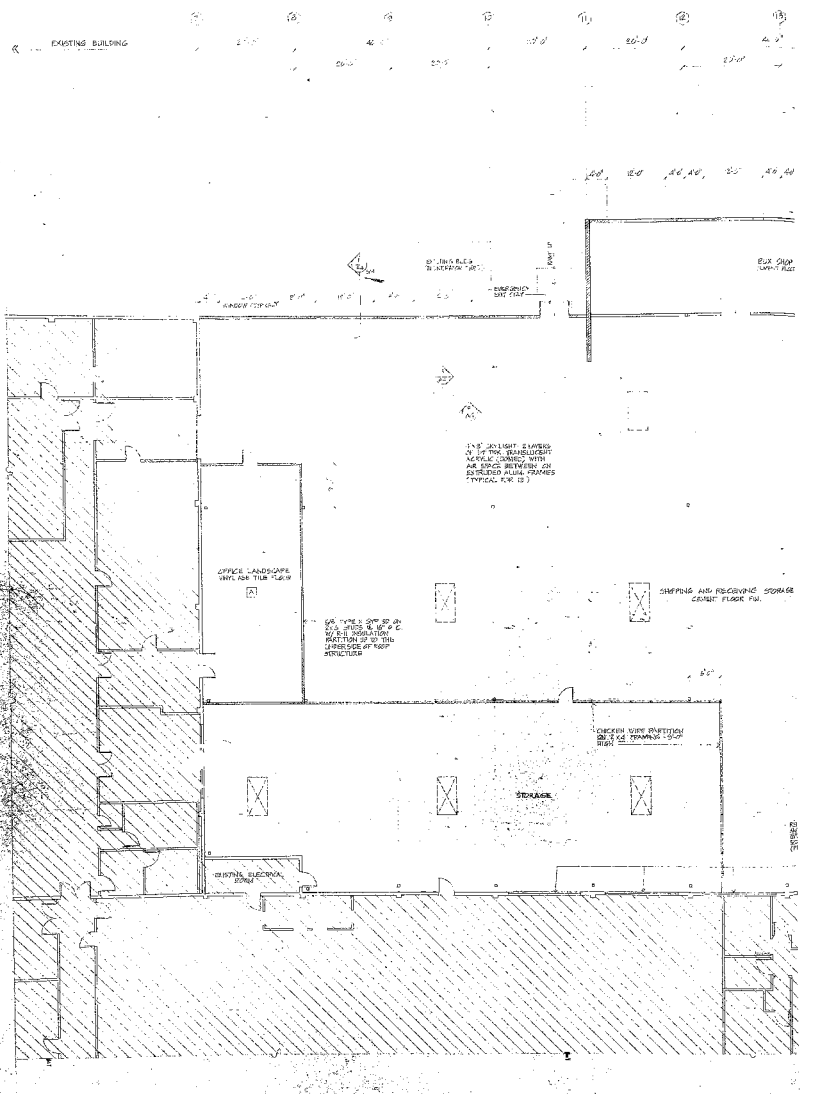
SIZE	CODE IDENT NO	DRAWING NO	
E		PLANT ENGRG. - 177	A1
SCALE 1:100			SHEET 1 OF 1



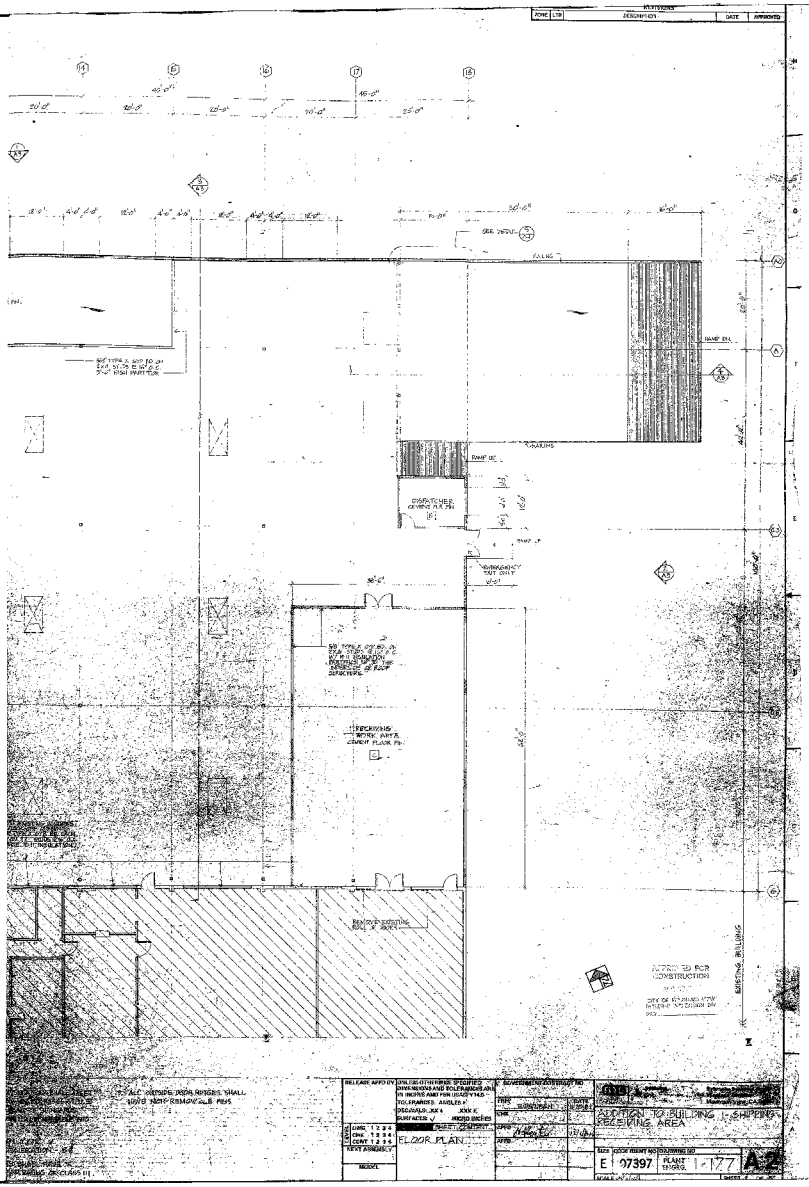
EXISTING BUILDING 1
THIS DRAWING IS IN ACCORD WITH THE PLAN APPROVED UNDER
REPLACEMENT
DATE
ADDITION VIEW PLANNING DEPT.
GTE
Systems
Systems Systems Group
Western Division
Mountain View, CA 94042
MODIFICATION TO BUILDING
PARKING AREA - DUE TO BUILDING
ADDITION
SIZE FSCM NO.
D 07397
DWG NO. PLANT
ENGRG.
1-178
SCALE FULL
SHEET 1 OF



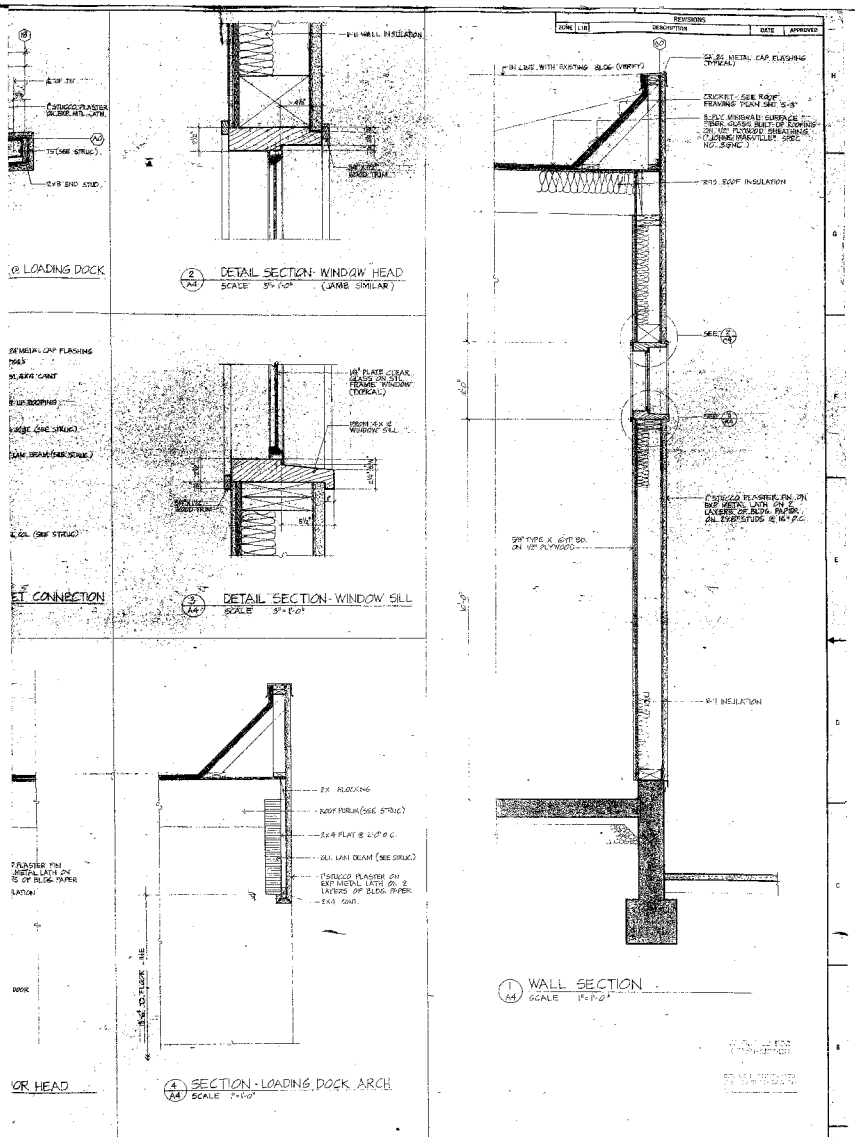
FLOOR PLAN
SCALE 1/8"=1'-0"



1. PROVIDE SEALANT AROUND WINDOWS.
2. EXTERIOR DOORS SHALL BE PROVIDED WITH A SEAL, ASTRAGAL, OR BAFFLE AT THE HEAD AND SILL.
3. EXTERIOR DOORS SHALL BE WEATHERSTRIPPED AT THE HEAD, SILL, & JAMBS.
4. INTERIOR DRABLE DOORS SHALL BE PROVIDED WITH A WEATHER-TIGHT ASTRAGAL OR CLOSURE AT THE CENTER CRACK.
5. VERTICAL TRACKS OR GUIDES FOR EXTERIOR ROLL-UP DOORS SHALL BE A CONTINUOUS MOUNTING TRABLE, SEALANT AT EACH JAMB.
6. ALL OPEN JOINTS, PENETRATIONS, & OTHER OPENINGS IN THE BUILDING ENVELOPE SHALL BE SEALED, CAULKED, GASKETED, OR WEATHER-STRIPPED TO LIMIT AIR LEAKAGE.
7. NEW BUILDING WILL HAVE A FULLY SUPERVISED SPRINKLER SYSTEM MONITORED BY A FIRE ALARM AGENCY, AND SHALL CONFORM TO NFPA STANDARDS & THE CITY OF MOUNTAIN VIEW FIRE DEPT. SPECIFICATIONS
8. ALL NEW ROLL-UP DOORS SHALL BE ELECTRICALLY CONTROLLED AND OPERATED.
9. ALL EMERGENCY EXIT DOORS SHALL BE 1¾" THK. SOLID CORE WITH PANIC HARDWARE.
10. REFLECTIVE ALUMINU THE REQUIREMENTS OF DEPT OF COMMERCE, ADHESIVES USED SHA NON-COMBUSTIBLE.
11. BUILDING CONSTRUCT OCCUPANCY C
12. ALL INTERIOR FINISH MINIMUM FLAME SP



ZONE
LTR
DESCRIPTION
DATE
APPROVED
SEE DETAIL
RAILING
RAMP DN
RAMP UP
DISPATCHER CEMENT PLATFORM
EMERGENCY EXIT ONLY
RECEIVING WORK AREA CEMENT FLOOR PL
REMOVE EXISTING WALL & DOOR
EXISTING BUILDING
APPROVED FOR CONSTRUCTION
ALL OUTSIDE PROP RIDGES SHALL HAVE NON-REMOVABLE PINS
RELEASE APPROVED
UNLESS OTHERWISE SPECIFIED DIMENSIONS AND TOLERANCES ARE IN INCHES AND FOR USE BY THIS TOLERANCES: ANGLES ± DECIMALS .XX ± .XXX ± SURFACES √ MICRO INCHES
DWG 1 2 3 4
CHK 1 2 3 4
CONT 1 2 3 4
NEXT ASSEMBLY
MODEL
FLOOR PLAN
SUBMITTED AND CONTRACT NO
DATE
CHK
APPD
ADDITION TO BUILDING 1 - SHIPPING RECEIVING AREA
SIZE
CODE IDENT NO
DRAWING NO
E
97397
PLANT 1 SHRG.
1-177
A2
SCALE
SHEET 1 OF 2



REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED

RELEASE APPD BY: UNLESS OTHERWISE SPECIFIED DIMENSIONS AND TOLERANCES ARE IN INCHES AND PER USASI Y14.5
TOLERANCES: ANGLES ±
DECIMALS: .XX ± .XXX ±
SURFACES: √ MICRO INCHES
SHEET CONTENT: DETAILS

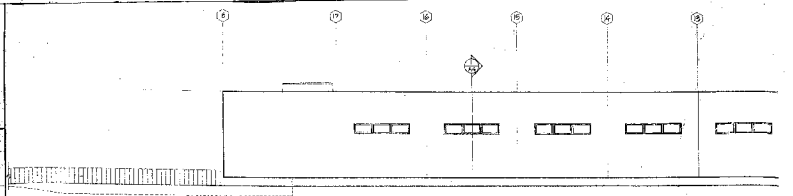
LEVEL: DWG 1 2 3 4 / CHK 1 2 3 4 / CONT 1 2 3 4
NEXT ASSEMBLY
MODEL

GOVERNMENT CONTRACT NO
PREP: C PELLSON
DATE
CHK
APPD
APPD

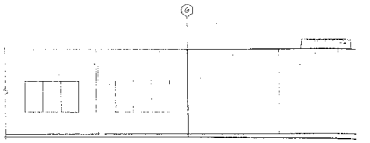
GTE Systems — Sylvania Systems Group, Western Division, Mountain View, CA 94042

ADDITION TO BUILDING 1 - SHIPPING RECEIVING AREA

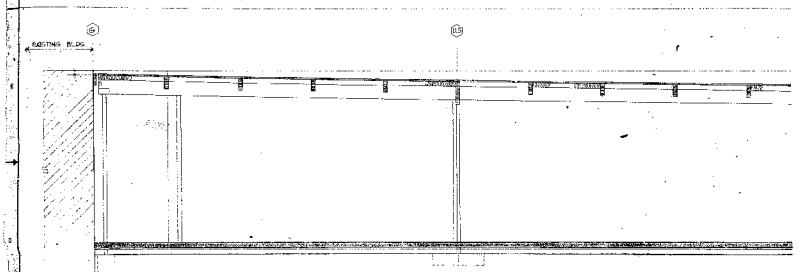
SIZE: E | CODE IDENT NO | DRAWING NO: 1-177 | A4



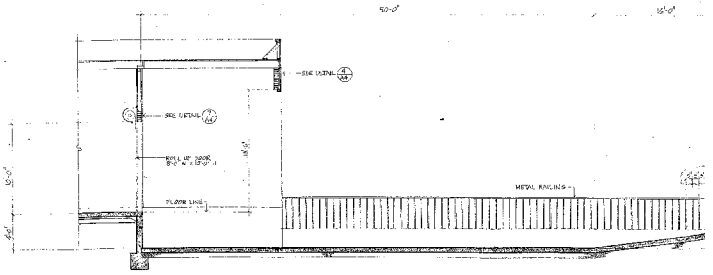
1 A3 NORTHEAST ELEVATION
SCALE 1/8"=1'-0"



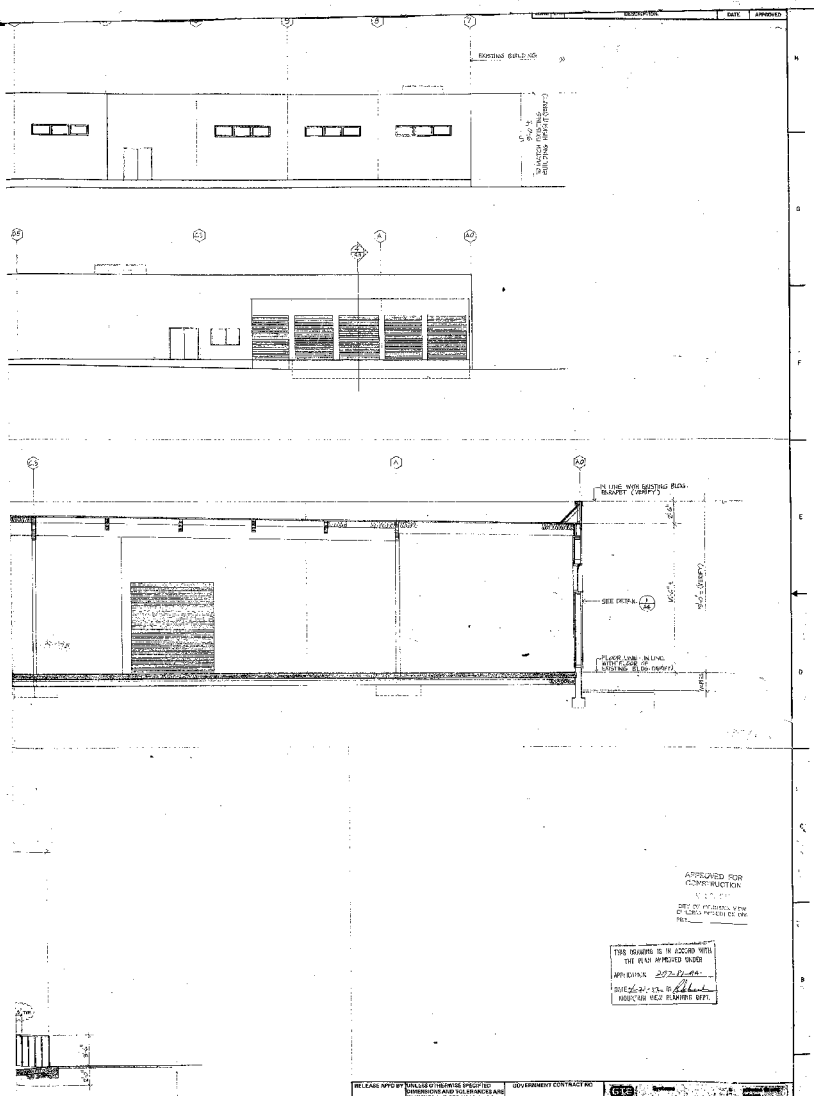
2 A3 SOUTHEAST ELEVATION
SCALE 1/8"=1'-0"



3 A3 SECTION
SCALE 1/4"=1'-0"



4 A3 SECTION: LOADING & UNLOADING DOCK



APPROVED FOR CONSTRUCTION

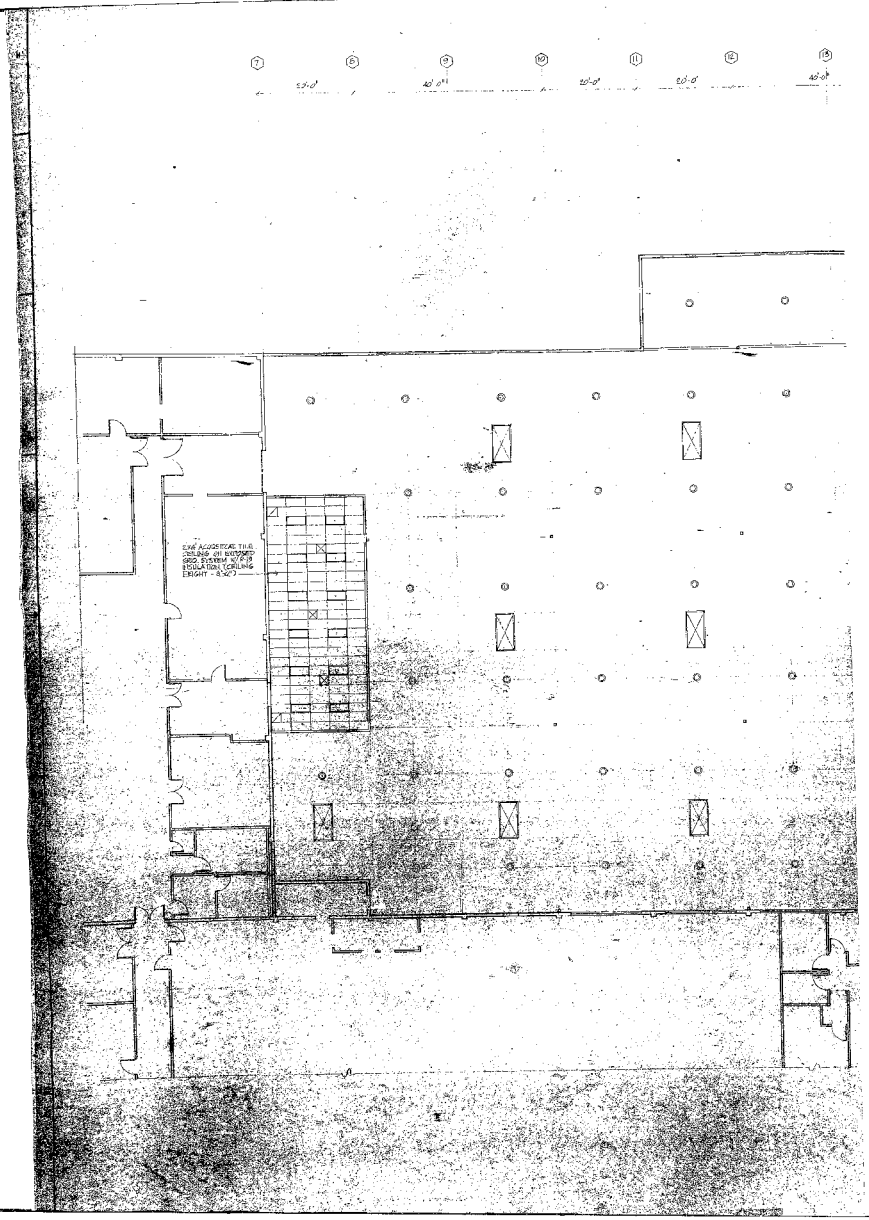
DEPT OF ENERGY, NEW ORLEANS REGIONAL OFFICE

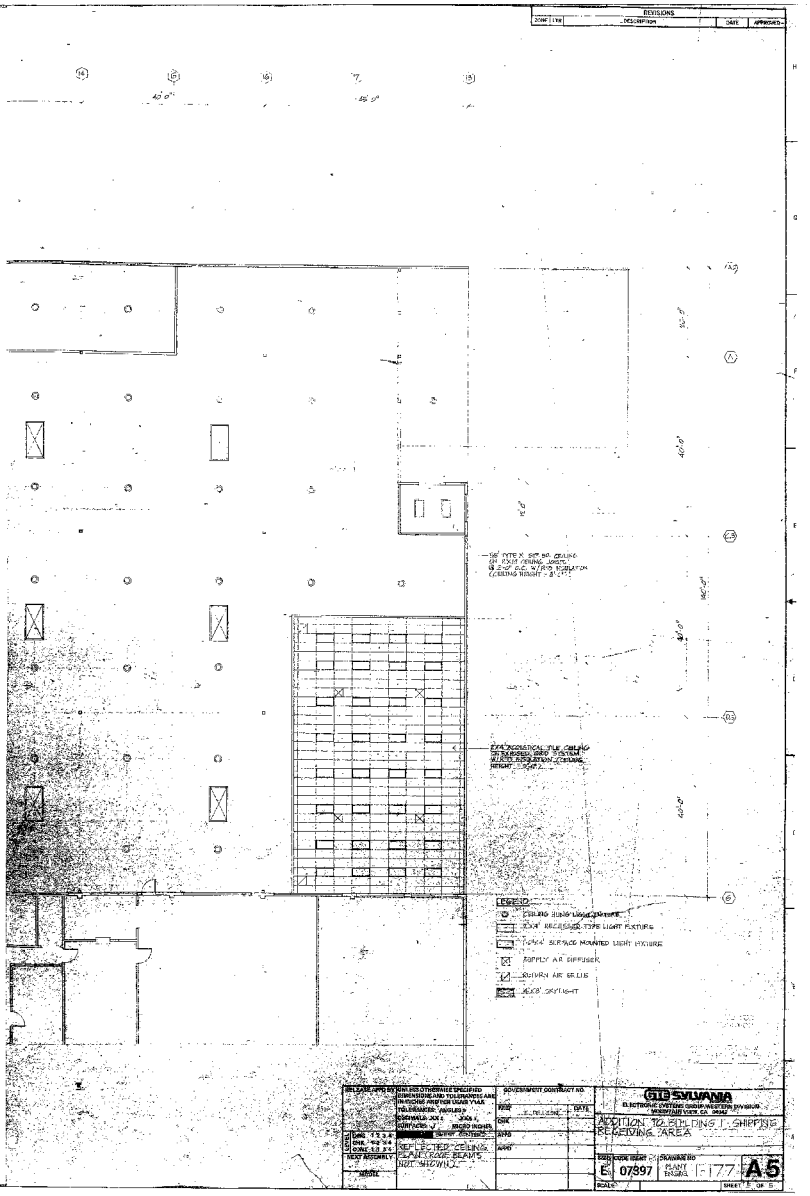
THIS DRAWING IS IN ACCORD WITH THE PLAN APPROVED UNDER APPLICATION 202-PL-AA

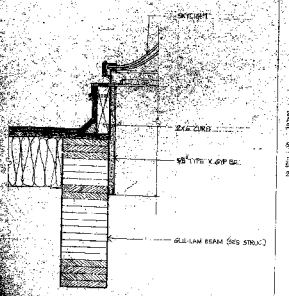
DATE 2/27/92 BY [signature]

MODIFICATION WITH BLANKING DEPT.

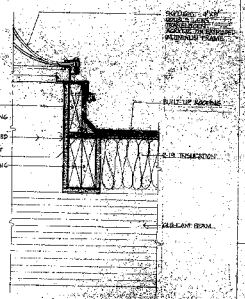
RELEASE APPD BY	UNLESS OTHERWISE SPECIFIED DIMENSIONS AND TOLERANCES ARE IN INCHES AND PER USAM Y14.5 TOLERANCES: ANGLES ± DECIMALS .XX ± .XXX ± SURFACES ✓ MICRO INCHES	GOVERNMENT CONTRACT NO	GTS Systems
LEVEL DWG 1 2 3 4 CHK 1 2 3 4 CONT 1 2 3 4	[redacted] SHEET CONTENT ELEVATIONS, SECTIONS	PREP E. DE LEON DATE 12-7-91	ADDITION TO BLDG 1 SHIPPING RECEIVING AREA
NEXT ASSEMBLY		CHK	
MODEL		APPD [signature] 2/3/91	
		APPD	
			SIZE E CODE IDENT NO DRAWING NO PLANT ENGRG. 1-177 A3
			SCALE SHEET


7
8
9
10
11
12
13
20'-0"
40'-0"
20'-0"
20'-0"
40'-0"
EXIT ACCESSIBLE THIS
CEILING OR EXPOSED
GRID SYSTEM W/ P-19
INSULATION (CEILING
HEIGHT - 8'-0")

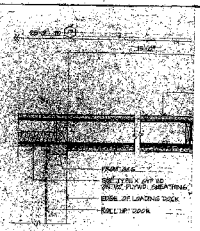

REVISIONS
ZONE | TYPE | DESCRIPTION | DATE | APPROVED
40'0"
45'0"
LEGEND
CEILING HUNG LIGHT FIXTURE
2X4 RECESSED TYPE LIGHT FIXTURE
1X4 SURFACE MOUNTED LIGHT FIXTURE
SUPPLY AIR DIFFUSER
RETURN AIR GRILLE
4X8 SKYLIGHT
RELEASE AND BY
DIMENSIONS AND TOLERANCES ARE IN INCHES AND FOR USAS Y14.5
TOLERANCES: ANGLES ±
DECIMALS .XX ± .XXX ±
CURVATES ✓ MICRO INCHES
DIM. 1 2 3 4
DIM. 4 5 6 7
DIM. 8 9 10 11
NEXT ASSEMBLY
MODEL
REFLECTED CEILING PLAN SHOWING
NOT SHOWN
GOVERNMENT CONTRACT NO.
DATE
CHK
APPD
APPD
GTE SYLVANIA
ELECTRONIC SYSTEMS GROUP WESTERN DIVISION
WESTERN VIEW, CA 94042
ADDITION TO BUILDING 1 SHIPPING RECEIVING AREA
CODE IDENT
E 07397
DRAWING NO
PLANT ENGINE 1-177
A5
SCALE
SHEET 5 OF 5



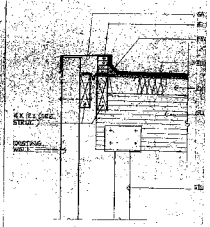
5 SECTION - SKYLIGHT CURB
A4 SCALE 3"=1'-0" (AT GLU-LAM SIDE).



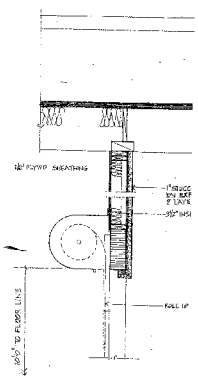
8 SECTION - SKYLIGHT CURB
A4 SCALE 3"=1'-0" (AT ROOF LOST SIDE)



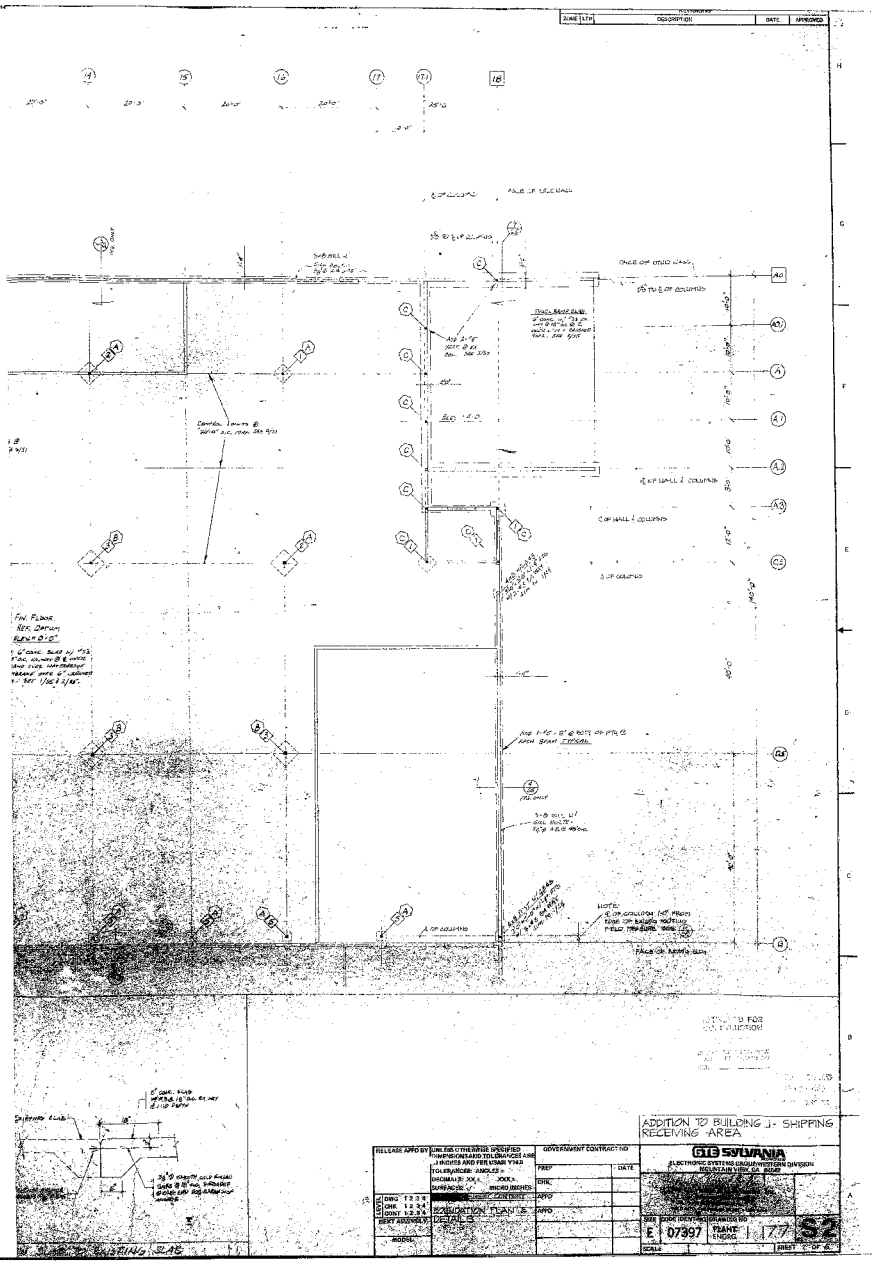
5 PLAN - SECTION - END WALL
A4 SCALE 1"=1'-0"



6 SECTION - EXISTING PARA
A4 TO NEW ROOF
SCALE 1"=1'-0"



7 SECTION - ROLL UP DO
A4 SCALE 1"=1'-0"

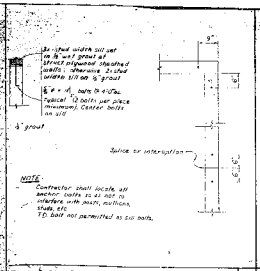


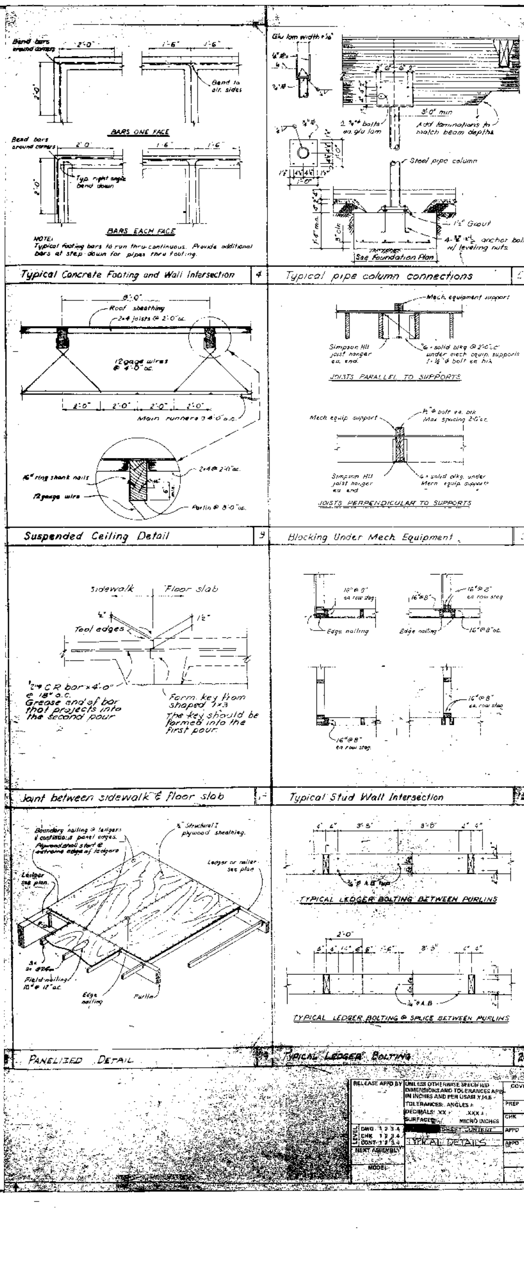
ADDITION TO BUILDING J - SHIPPING RECEIVING AREA

RELEASE APPD BY	UNLESS OTHERWISE SPECIFIED DIMENSIONS AND TOLERANCES ARE J INCHES AND FRACTIONS ± 1/64 TOLERANCES: ANGLES ± DECIMALS: XX ± XXX ± SURFACE: ± MICRO INCHES	GOVERNMENT CONTRACT NO	
		PREP	DATE
		CHK	
		APPD	
		APPD	
LEVEL	DWG 1 2 3 4 / SPEC 1 2 3 4 / CONT 1 2 3 4	SCHEMATIC PLAN & DETAILS	
NEXT ASSEMBLY			
MODEL			

GTE SYLVANIA
ELECTRONIC SYSTEMS GROUP-WESTERN DIVISION
MOUNTAIN VIEW, CA 94040

SIZE	CODE IDENT NO	DRAWING NO	
E	07397	FRAME ENDING 1177	S2
SCALE			SHEET 2 OF 16


Typical Sill Bolting Details
1
Typical Upper Plate Splice
2
Typical Step-Down Detail
3
Construction Joint
Control Joint
Typical concrete slab joints
6
Typical Slab on Grade & Subbase Detail
7
Typical Trench and Pipe at Footing Detail
8
Details of Holes & Notches in Rafters, Joists, Beams & Studs
11
Typical Butt and Lap Splice for Joists
12
Non-Bearing, Non-Shear Wall Details
13
Framing between Glu-lams
Framing between purlins
Parallel to purlins
Perpendicular to purlins
Under purlins
TYPICAL SUSPENDED PARTITION DETAIL
16
CONNECTION OF NON-BEARING, NON-SHEAR WALL TO PANEL ROOF
17
MECHANICAL EQUIPMENT SUPPORT
18
MECHANICAL EQUIPMENT ON ROOF
MECHANICAL EQUIPMENT SUSPENDED FROM ROOF



GENERAL NOTES

1. DRAWINGS: Structural drawings indicate structural requirements only. For other requirements dictated by Architectural, Mechanical, or Electrical, refer to those drawings.

2. DIMENSIONS: Dimensions that are in any manner dependent upon existing construction are approximate and subject to field change. Dimensions shall be verified with Architectural Drawings. Discrepancies shall be brought to the attention of the Architect.

3. DETAILS: Where certain construction features are not fully shown, the construction shall be similar to similar conditions shown elsewhere.

4. CONSTRUCTION: Existing construction and related new work are shown and noted per existing drawings. Should the as-built construction differ from that shown or indicated, the Contractor shall notify the Architect prior to continuing with any related work. The Contractor shall safely shore any and all construction throughout all construction phases.

5. SHOP DRAWINGS: The Contractor shall submit to the Architect for approval, complete shop drawings for all reinforcing steel, structural steel, and glued-laminated beams prior to fabrication. Approval in no way relieves the Contractor of the responsibility for building the structure in accordance with the original contract document.

6. CONCRETE: Cement shall be Portland cement type II and shall comply with ASTM Spec. C150-76a. Aggregates shall comply with ASTM Spec. C33-74a. Air entraining or admixtures may be used (none shall contain calcium chloride) if approved by the Architect. Concrete with specified strengths less than 3000 p.s.i. shall contain a minimum of 5 sacks of cement per cubic yard of concrete and concrete with specified strengths of and in excess of 3000 psi shall contain a minimum of 5½ sacks of cement per cubic yard of concrete.
   Minimum compressive strength @ 28 days for:
   - Footings .... 2500 psi
   - Slabs on grade .... 2500 psi
   - Columns .... — psi
   - Beams .... — psi
   - Structural Slabs .... — psi

7. STEEL REINFORCING: Welded wire fabric shall comply with ASTM Spec. A185-73. Bars shall be deformed and shall comply with ASTM Spec. A615-72 Grade 40. Bars shall be fabricated and placed in lengths as long as possible. At splices, bars shall be lapped a minimum of 32 diameters. Suitable devices shall be used to hold the reinforcing in its true position during concrete placement. Minimum concrete cover shall be: 3" for concrete deposited against earth; 2" on the ground side of formed surfaces; 3/4" in slabs and other walls; 1½" in beams and columns.

8. CARPENTRY: Lumber shall be Douglas Fir, Coast Region, and shall comply with the grading rules and regulations of the West Coast Lumber Manufacturer's Association. Structural plywood shall be Structural I, PSI 74, and shall comply with the fabrication rules and regulations of the American Plywood Association with each sheet stamped to so signify. Glued-laminated beams shall comply with the requirements of the Standard Specifications for Structural Glued Laminated Douglas Fir (Coast Region) Timber. Wood in contact with masonry or concrete shall be pressure treated with an approved preservative to a minimum surface depth of ¾" and an end depth of 6". Timber fasteners such as joist hangers, framing clips, etc., shall be Simpson or approved equal. All fasteners shall be fully nailed or bolted with the type and number of nails or bolts specified by the manufacturer.
   Joists: Full bearing at the supports; 2x blocking at supports; solid blocking at 8'-0" throughout for floor, roof, and ceiling joists (omit for joist depths 8" and under); double joists under parallel walls.
   Bearing and Shear walls: 1 - bottom plate; 2 top plates; 2x solid blocking at 8'0" o.c. maximum spacing through stud height; for attic walls that abut masonry or concrete, bolt 3x and stud thereto with 5/8" x 12" machine bolts at 2' - 8" o.c. Bolt bottom plate to masonry or concrete with 5/8" x 12" machine bolts at 4' - 0 o.c. except as noted on the Plans and Details.
   Bolts: Bolts shall comply with ASTM Spec. A307. Bolt holes shall be drilled 1/16 diameter greater than the bolt diameter. Bolt threads shall not bear on wood. Standard malleable iron or plate washers shall be used under all bolt heads or nuts that would otherwise bear directly on wood.
   Nailing Schedule: Minimum requirements. Nails shall be common wire unless otherwise noted.

Joists to:	
double joists	16d @ 12" o.c. staggered
lapped joists	4-16d
bearings	3 - 8d toes (h = 16' or less)
Studs to:	
bearings	2 - 8d toes ea side (h = 16' or less)
multiple studs	16d @ 24" o.c. staggered
blocking	2 - 10d toes or 2 - 16d end nails
Top plates:	
lower plate to stud	2 - 16d end nails (h = 16' - 0" or less) 3 - 16d end nails (h = 16'-0" to 21'-0)
upper plate to lower	16d @ 16" o.c. staggered
upper plate to lower at intersections	3 - 16d
Solid blocking to:	
joist	2 - 16d end nails or 4 - 10d toes
joist bearing	2 - 10d toes ea side

9. MASONRY: Concrete block shall be Grade N units complying with ASTM C90 - 75 and shall attain a minimum ultimate compressive strength of 2000 psi. Mortar shall be type M and comply with ASTM 270-73. Grout shall comply with ASTM C476 - 71 and shall attain a minimum compressive strength of 2000 psi in 28 days. Vertical reinforcing shall be continuous from footing to top of wall. Horizontal reinforcing splices shall be staggered. Clean-outs shall be provided at base of wall. All cells shall be vibrated with an internal concrete vibrator during the grouting operation. ALL CELLS SHALL BE GROUTED SOLID

10. PRE-FABRICATED MATERIALS: Manufacturer shall submit to Architect for approval calculations and details prior to fabrication.

11. STRUCTURAL STEEL: Shall be fabricated in compliance with the latest "Specification for the Design, Fabrication and Erection of Structural Steel for Buildings" of the American Institute for Steel Construction.
   - Beams and miscellaneous shapes - A - 36
   - Tube columns A-500-74A
   - Pipe columns A - 53 Grade B
   - Bolts A - 307 no threads in shear planes

12. CHANGES, ADDITIONS AND REVISIONS: Any changes and/or revisions of the structure due to relocation, addition, or revision of mechanical equipment and/or other trades shall be brought to the attention of the Structural Engineer prior to the commencement of said change or revision. Structural members or elements that require changing or relocating shall be the responsibility of the trade or trades involved. The Architect, Structural Engineer or Owner shall not be liable for the cost of the changes or revisions required.

13. GENERAL:
   This sheet is intended as a guide to show methods of construction not specifically detailed in the drawings and minimum quality of materials to be used. Not all details or specifications may apply to this project.

APPROVED FOR CONSTRUCTION

ADDITION TO BUILDING - SHIPPING RECEIVING AREA

GTE Systems — Sylvania Systems Group, Western Division, Mountain View, CA 94042

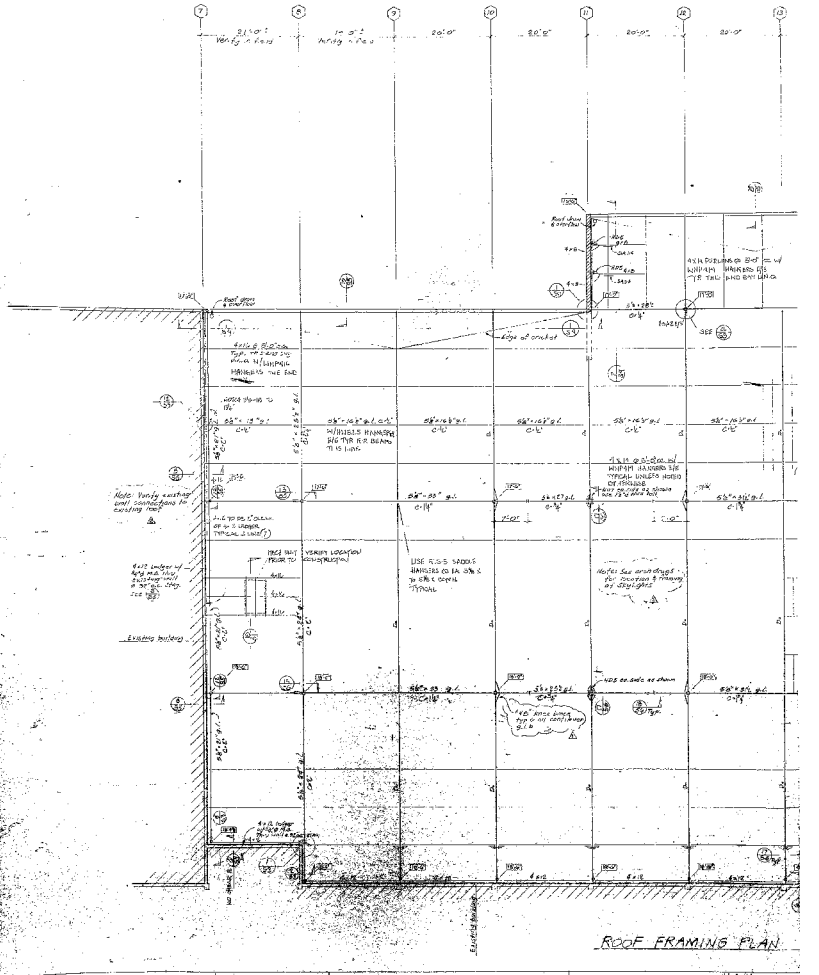
UNLESS OTHERWISE SPECIFIED DIMENSIONS AND TOLERANCES ARE IN INCHES AND PER USASI Y14.5
TOLERANCES: ANGLES ± DECIMALS: XX ± .XXX ±
SURFACES: MICRO INCHES

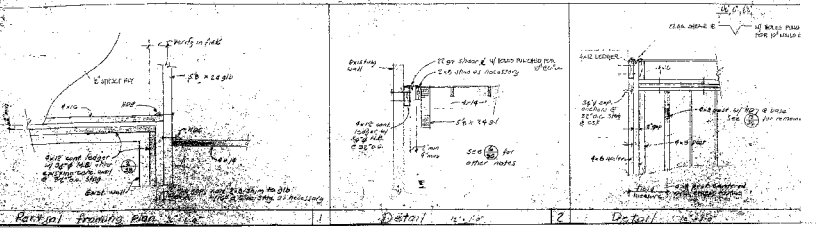
RELEASE APPD BY	GOVERNMENT CONTRACT NO.	DATE
LEVEL DWG 1 2 3 4 / CHK 1 2 3 4 / CONT 1 2 3 4	PREP	
NEXT ASSEMBLY	CHK	
MODEL	APPD	
	APPD	

SHEET CONTENT: TYPICAL DETAILS

SIZE: E | CODE IDENT NO | DRAWING NO: PLANT ENGRG 1077 | S1

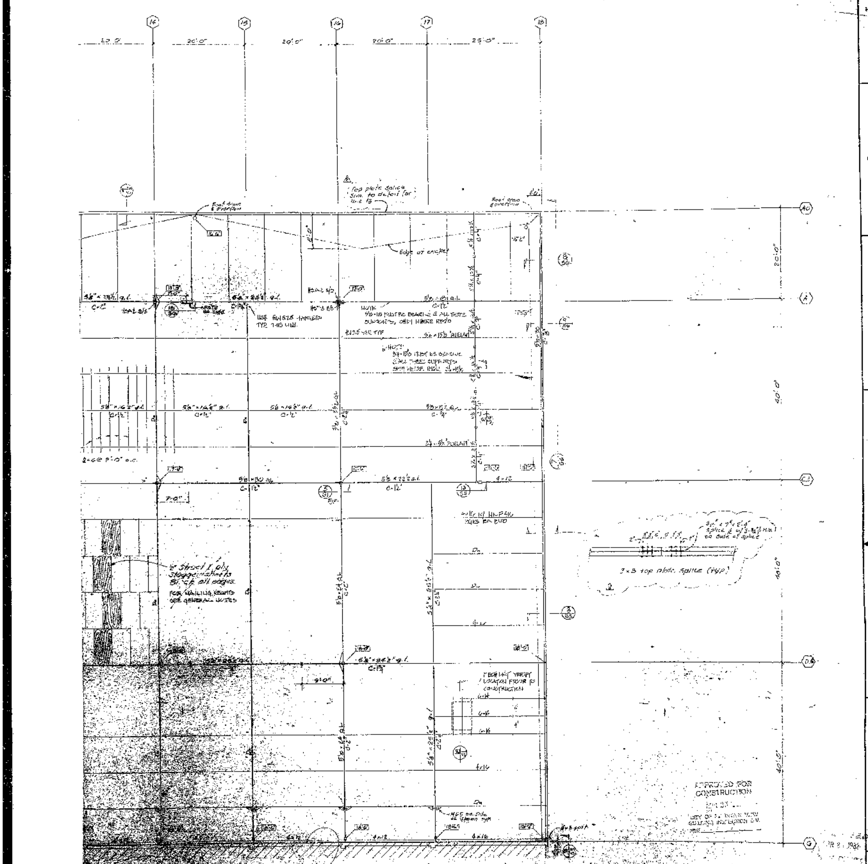
SCALE | SHEET


ROOF FRAMING PLAN


Partial Framing Plan
Detail
Detail

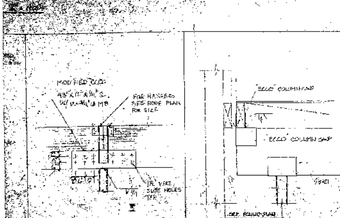
REVISIONS

ZONE	LTR	DESCRIPTION	DATE	APPROVED
	1	Added VB knee brace & cantilever bms.	3-1-82	
	2	Added splice detail, misc. notes	3-26-82	



GENERAL NOTES

1. [T/S] Denotes top of sheathing above finish floor.
2. Plywood: 1/2" Struct. I; all unsupported edges blocked. Nail w/ 10d @ 6" o.c. for boundry and edge nailing and 12" o.c. for field nailing.
3. Joists: 2×6 D.F. No. 2 or better w/ F26H ea. end. Typ. u.n.o.
4. Purlins: Spaced @ 8'-0" o.c. max. u.n.o. Solid Sawn: D.F. No. 1 or better. F_b = 1500 psi F_v = 95 psi E = 1.6×10⁶ psi.
5. Glu-lam beams: DFCA 24f waterproof glue and load stamped
6. Nothing shall be supported from the roof 2× joists except as specifically detailed. Additional framing shall be provided to support all suspended materials with details submitted for approval prior to installation.
7. All framing members shall be supplied with hangers ea. end.
8. Additional framing shall be provided for mechanical unit supports. Size and location of units shall be submitted to the structural engineer for approval prior to installation.



3 CONN. DETAIL | 4 CONN. DETAIL

ADDITION TO BUILDING I - SHIPPING RECEIVING AREA

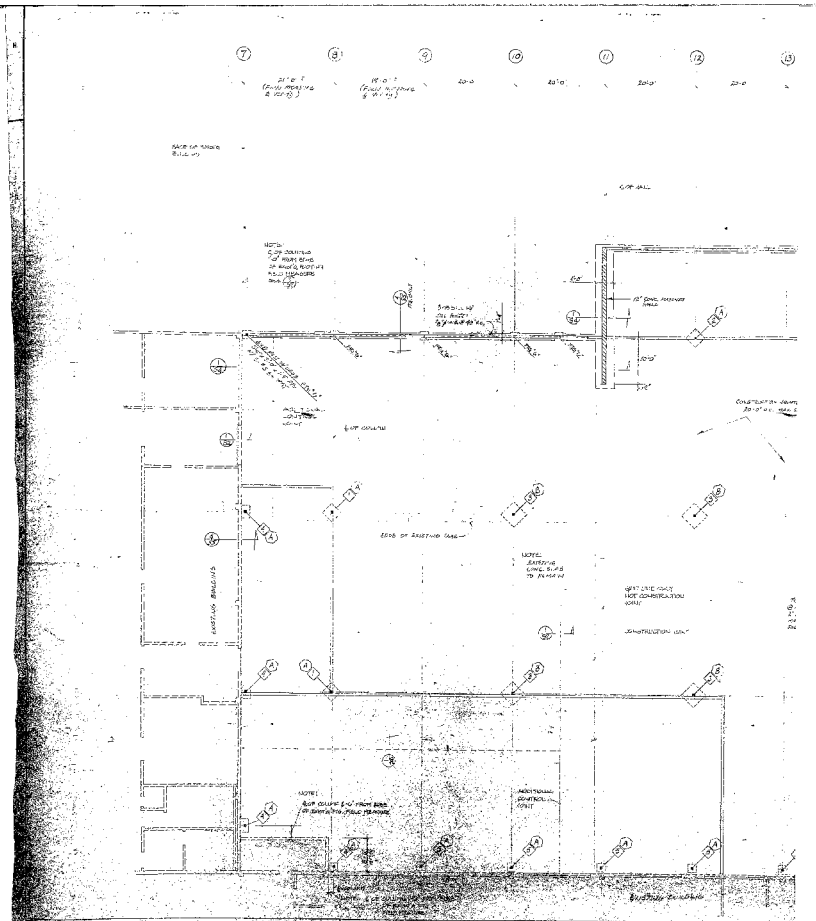
GTE SYLVANIA
ELECTRONIC SYSTEMS GROUP/WESTERN DIVISION
MOUNTAIN VIEW, CA 94042

RELEASE APP'D BY	UNLESS OTHERWISE SPECIFIED DIMENSIONS AND TOLERANCES ARE IN INCHES AND PER USASI Y14.5
	TOLERANCES: ANGLES ±
	DECIMALS: .XX ± .XXX ±
	SURFACES: MICRO INCHES
LEVEL DWG 1 2 3 4 / CHK 1 2 3 4 / CONT 1 2 3 4	[redacted] SHEET CONTENT
NEXT ASSEMBLY	ROOF FRAMING PLAN & DETAILS
MODEL	

GOVERNMENT CONTRACT NO	
PREP	DATE
CHK	
APPD	
APPD	

SIZE E | CODE IDENT NO 07397 | DRAWING NO PLANT ENGRG I-177 | S3

SCALE | SHEET 3 OF 6



SCHEDULE

FOOTINGS

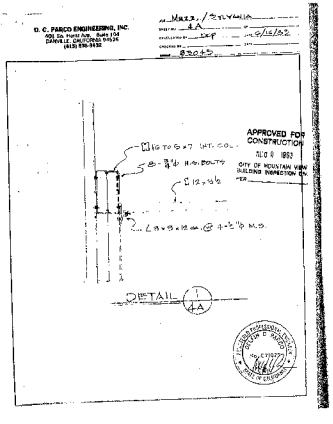
1. 3'-5" x 3'-0" x 1'-4" CONC. W/ 4-#5 EA. WAY
2. 3'-6" x 3'-0" x 1'-4" CONC. W/ 4-#5 EA. WAY
3. 4'-0" x 4'-0" x 1'-4" CONC. W/ 4-#5 EA. WAY
4. 3'-0" x 2'-0" x 36" MIN. (ADJUST EXIST. FTG. DOWN) W/ 2-#5 EA. WAY OFF.
5. 2'-0" x 2'-0" x 36" MIN. (ADJUST EXIST. FTG. DOWN) W/ 2-#5 EA. WAY OFF.

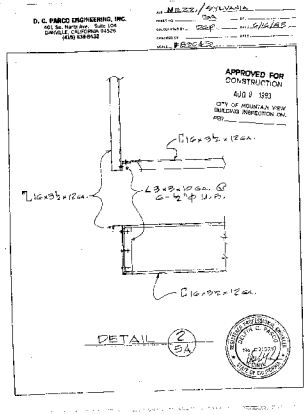
COLUMN & BASE PL.

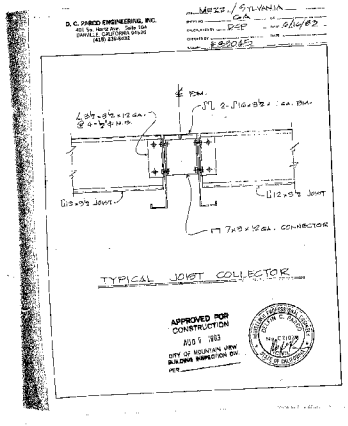
A. 5'-5" x 5'-5" PL W/ 12"x12"x1/2" PL
B. 5'-5" x 5'-5" PL W/ 12"x12"x1" PL
C. 6'-6" x 6'-6" PL W/ 12"x12"x1/2" PL

GENERAL NOTES

1. SOILS REPORT BY JO CROSBY & ASSOC., DATED NOVEMBER 24 1981, PROJECT NO. 3060-30, SHALL BE CONSIDERED PART OF THESE DRAWINGS.
2. ALL FOOTINGS SHALL BE FOUNDED A MINIMUM OF ONE FOOT BELOW LOWEST ADJACENT GRADE.
3. REFERENCE PLAN ABOVE FOR TYPICAL SLAB CONSTRUCTION REQUIREMENTS FOR STORAGE & DOCK AREAS.
4. ◇ - DENOTES FOOTING - SEE SCHEDULE
5. ○ - DENOTES COLUMN/BASE PL - SEE SCHEDULE


D. C. PARCO ENGINEERING, INC.
MEZZ. / SYLVANIA
4A
DEP
6/16/82
APPROVED FOR CONSTRUCTION
AUG 9 1982
CITY OF MOUNTAIN VIEW BUILDING INSPECTION DIV.
DETAIL 1 / 4A


D. C. PARCO ENGINEERING, INC.
MEZZ. / SYLVANIA
DEP
6/16/82
APPROVED FOR CONSTRUCTION
AUG 9 1982
CITY OF MOUNTAIN VIEW BUILDING INSPECTION DIV.
DETAIL 2 / 5A


D. C. PARCO ENGINEERING, INC.
MEZZ. / SYLVANIA
GA
DEP
6/16/82
APPROVED FOR CONSTRUCTION
AUG 9 1982
CITY OF MOUNTAIN VIEW BUILDING INSPECTION DIV.
TYPICAL JOIST COLLECTOR

D. C. PARDO ENGINEERING, INC.
401 So. Rock Rd. Suite 101
Danville, CA. 94526-3522
(415) 838-8432

WESTINWHE - SYLVANIA
SHEET NO. 1A
CALCULATED BY DCP DATE 8/16/83
CHECKED BY DATE
SCALE
JOB NO. 83045
REVISED 7/16/83

ITEM No. 1 (SHT. 1 OF CALCS)

TABLE 23-D OF UBC:
MAX. ALLOW. DEFLECTION FOR MEMBERS LOADED @ LIVE LOAD PLUS DEAD LOAD (LL + KDL) = L/240

TABLE No. 23-E: FOR STEEL, K=0

THEREFORE: $W_a = (125+0) \div 2 = 250$ #/' (FOR L/240)

ITEM No. 2 (SHT. 2 OF CALCS)

CHECK DEFLECTION OF BEAM (K=0)
$W_a = (125+0) \times 20' = 2.50$ K/'

$\Delta = \frac{WC}{EI}$ C = 916.70 (FROM COMPUTER DATA)
E = 29900 KSI
I = 2x112 = 224 in.⁴

$\Delta = \frac{2.5 \times 916.7 \times 12^3}{29900 \times 224} = 0.00$ in. < 1/400 ok.

APPROVED FOR CONSTRUCTION
AUG 9 1983
CITY OF MOUNTAIN VIEW
BUILDING INSPECTION DIV.
PER

D. C. PARDO ENGINEERING, INC.
401 So. Rock Rd. Suite 101
Danville, CALIFORNIA 94526
(415) 838-8432

WESTINGHOUSE / SYLVANIA
SHEET NO. 2A
CALCULATED BY DCP DATE 8/16/83
CHECKED BY DATE
SCALE
JOB NO. #83045
REVISED 7/16/83

ITEM No. 3 (SHT. 3 OF CALCS.)

CHECK LATERAL LOADS: (W = DL + 25% LL)

TRANSVERSE DIRECTION: SEISMIC LOAD TO BE TRANSFERED BY B-COLS

$W = (6 + 31.25) \times 20' \times 8' = 98.0^k$ / BAY (5-COLS)
$V = 2.14 C S W$ Z=1 I=1 CS=.14 K=1.0 (MOMENT-RESISTING)
$V = 1 \times 1 \times .14 \times 98 = 8.12^k$
SEISMIC LOAD/COL = $8.12/5 = 1.62^k$
$M_{max.} = 1.62 \times 8' = 12.96^{1-k}$

$M_{(DL+LL)} = 0.6 \times 21.88 = 13.13^{1-k}$

$M_T = 12.96 + 55.48 \times 68.39^{1-k}$
$f_b = 68.39 \times 12 / (1.33 \times 21.62) = 26.81$ KSI ok.

APPROVED FOR CONSTRUCTION
AUG 9 1983
CITY OF MOUNTAIN VIEW
BUILDING INSPECTION DIV.
PER

LONGITUDINAL DIRECTION:
SEISMIC LOAD TO BE TRANSFERED BY 11-CORNER COLS. WHERE CONNECTED TO STRUT @ B - ¾" ϕ H.S. BOLTS @ 12½" DIA. BOLT PATTERN

$W = 96.25[(60' \times 17) + (40' \times 120)] = 814.05^k$
$V = 1 \times 1 \times 1 \times 1 \times 8 \times 14.05 = 44.06^k$
$M = (44.06 \times 8)/11 = 32.04^{1-k}$/COL
CORNER COL. - B: $17 \times 17 \times 5/8 = 54 \times 10$ SQ. ($S_x = 19.8$)
$f_b = 32.04 \times 12 / 1.33 \times 19.8 = 20.95$ KSI ok.

STRUT ~ □ 16 x ⅜ x 12 SQ. ($S_x = 7.91$ in.³)
$f_b = 32.04 \times 12 / (1.33 \times 7.91) = 39.55$ KSI < 48 KSI

D. C. PARDO ENGINEERING, INC.
401 So. Rock Rd. Suite 101
Danville, CALIFORNIA 94526
(415) 838-8432

WESTINGHOUSE / SYLVANIA
SHEET NO. 3A
CALCULATED BY DCP DATE 8/16/83
CHECKED BY DATE
SCALE
JOB NO. #83045
REVISED 7/16/83

STRUT/COL. CONN. ~ 8-¾" ϕ @ 12½" BOLT ϕ
$M = 32.04^{1-k}$ $V = 1.29^k \times 1 \times 30/5 = 12.90^k$
(DL + LL) ON STRUT
SHEAR/M = $(32.04 \times 12)/(4 \times 12.5) = 7.69^k$
SHEAR/V = $12.9^k / 8 = 1.61^k$
MAX. SHEAR = $\sqrt{7.69^2 + .161^2} = 7.69^k$
ALLOW. SHEAR = $9.72^k > 7.69^k$

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BUILDING INSPECTION DIV.
PER

ITEM No. 4 (SHT. 4 OF CALCS.)

THICKNESS = 6"
@ #3 BARS @ 18" O.C. BAWNT
REQ. 2' SQ'D & 6' STRUTTED COCKT
@ 90% COMPACTION
ALLOW. SOIL PRESS. = 2000 PSF
(INFORMATION PER OWNER/SYLVANIA)

UPLIFT @ TRANSVERSE DIRECTION ~
THERE IS NO UPLIFT @ COLS.
SINCE 5 COLS. ARE INTERCONNECTED TOGETHER BY COMMON BM.

ANCHOR BOLTS: USE 2-¾" ϕ x 6½" LONG WEDGE ANCHOR (EQUIVALENT OR EQUAL)
ALLOW. SHEAR = $2 \times 17.4 = 8.60^k > 6.14^k$
ALLOW. TENSION = $(2 \times 11.8/4) \times 1.33 = 7.58^k$

FORM 5

[illegible] FORM
LIGHTING COMPLIANCE

Title G.T.E. #11062
Location MOUNTAIN VIEW, CA.
Project Designer G.T.E. SYLVANIA
(19[illegible] [illegible] 12 [illegible])

Documented by [illegible]
Date [illegible]
Checked by ______
Date ______

Room No	Room Sq Ft	RCR	Task Area	Class Appl	Sq Ft Area	No Occ	Sq Ft / Occ	Total Sq Ft	Watts / Sq Ft	Allowed Watts	Design Watts
1	12121	0.5	WAREHOUSE 322	—	—	—	—	12121	(.75)	9090.75	6151
1.1	8400	.6	WAREHOUSE MEZZ AREA 336					8400	.8	6720	7520
2	1615	0.5	OFFICE A 242	1	100	16.25	[illegible]	[illegible]	3.6	1945	2808
			NON-TASK					515.5	1.2	615	
3	160	0.5	OFFICE B 242	1	100	1.88	50	90	3.6	324	368
			NON-TASK					70	1.2	100	
4	2391	0.5	OFFICE C 242	1	100	23.91	55	[illegible]	3.6	4309.2	5888
			NON-TASK					1197	1.2	1436.4	
1.2	8400	.6	WAREHOUSE MEZZ 331	—	—	—	—	8400	.8	6720	9840

Page Total 19,3864 31,976

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LIGHTING CALCULATIONS

ROOM 1.1   R.C.R. = .8

$$FC = \frac{94 \times 2 \times 2900 \times .60}{8400}$$

$$FC = \frac{327120}{8400}$$

FC = 38.94

ROOM 1.2   R.C.R. = .8

$$FC = \frac{123 \times 2 \times 2900 \times .60}{8400}$$

$$FC = \frac{428040}{8400}$$

FC = 50.95

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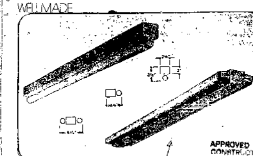
PER ______

WELLMADE



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ministrip

features

- ministrip and rapidstrip make up a complete line of open commericals to meet every strip lighting need.
- using the proven Wellmade Snap-N-Lock principle-these fixtures are the ultimate in simplicity and economy-yet completely modern in design and versatility.
- together with a wide variety of accessories and mounting devices-these fixtures provide the maximum economy of field installation.
- 202 series and 204 series rapid start fixtures are UL area coverage labeled.

202 SERIES

CATALOG NO.	LAMPS	NOM. LENGTH
[illegible]	[illegible]	[illegible]

202 SM SIDE MOUNTS
ONE SIDE

TWO SIDES

NOTES
- for [illegible] see page [illegible]
- for photometric data see page 47[illegible].
- see page [illegible] for accessories and mounting devices.
- symmetric, asymmetric, or reverse asymmetric reflectors available for 202, 204 and 205 series. To order insert suffix [illegible] (example 2045-14[illegible]-HPF).
- Wire lamp guards available in 48" lengths. to order add to cat. no. the suffix WG.

WELLMADE METAL PRODUCTS CO., [illegible] AVE., OAKLAND, CALIFORNIA [illegible]

D. C. PARCO ENGINEERING, INC.
802 So. PACIFIC AVE. SUITE 204
DIXIXLE, CALIFORNIA 94526
(415) 828-0422

GTE/SYLVANIA
SHEET 3.3
CALCULATED DCP DATE 8/5/82
CHECKED BY
JOB # 80046

INTERIOR FRAME

COLUMN ~ (Cont'd.)

$M_{max.} = 47.01 + 12.95 = 60.97$ '-K

$f_{bx} = 60.97 \times 12/28 = 26.06$ ksi

$f_a = 24.63/6.48 = 3.77$ ksi

$f_a/F_a + f_b/F_b = \left(\frac{3.77}{16.0}\right) + \left(\frac{26.06}{30}\right) = 1.12 < 1.33$

COLUMN ADEQUATE

LOCATE POINT OF INFLECTION @ BM.
$M_{BC} X_0 = 2.88 X_0^2/2$ $X_0 = 13.09'$ FROM PT. "C"
BOTTOM FLANGE IN COMPRESSION
@ 2.91' FROM PT. "B"

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(415) 828-0422

GTE/SYLVANIA
SHEET 3.5
CALCULATED DCP DATE 8/5/82
CHECKED BY
JOB # 80046

END FRAME

(DL + LL)

$w = (120 \times 8)/9 = 1.16^k/'$

$I_b = 87.58$ in.^{4}

$I_c = \frac{(8.64 + 18.72)}{9} = 48.46$ in.^{4}

$K = (87.58 \times 8)/(48.46 \times 10) = 1.44$

$N = 1 + 1.44 = 2.44$

$M_B = \frac{1.16 \times 18^2}{8 \times 2.44} = 26.78$ '-k

$H_A = 26.78/8 = 3.22^k$

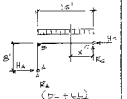
$H_C = 3.22^k$

$R_A = (1.16 \times 8) + (26.78/10) = 12.87^k$

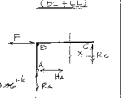
$R_C = (1.16 \times 8) - (26.78/10) = 7.67^k$

$V = 7.67/1.16 = 6.61'$

$M_X = (7.67 \times 6.61) - (1.16 \times 6.61^2/2) = 28.46$ '-k



(DL + LL)



(SEISMIC)

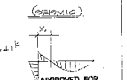
(SEISMIC LOAD)

$F = 1.62/2 = 0.81^k$ $H_C = 0.81^k$

$R_C = 0.81 \times 8/10 = 0.41^k$ $R_A = 0.41^k$

$M_B = 0.41 \times 8 = 3.28$ '-k

$M_X = 0.61 \times 6.61 = 2.71$ '-k



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GTE/SYLVANIA
SHEET 3.7
CALCULATED DCP DATE 8/5/82
CHECKED BY
JOB # 80046

END FRAME

VERTICAL (DL+LL) + SEISMIC LOAD

BEAM ~ $\square$ 16 x 3½ x 12 GA. ($F_y = 80$ ksi)
$S_x = 10.71$ in.^{3}

$M_{MAX.} = 23.86 + 2.71 = 28.07$ '-k

$f_b = 28.07 \times 12/10.71 = 31.48$ ksi < 48 ksi

COLUMN ~ $\square$ 16 x 16 x 8 x 12 GA. ($F_y = 80$ ksi)
$S_x = 19.80$ in.^{3} $A = 6.50$ in.^{2}
$r_x = r_y = 5.55$ in. $Q = 0.79$ in.

$kL/r = 2 \times 8 \times 5/5.55 = 23$

$C_c F_y = 170 \times 80 = 36.5$ $F_a = 18.5$ ksi

$M_{MAX.} = 23.76 + 5.73 = 29.00$ '-k

$P_{MAX.} = 10.89 + 0.41 = 11.3^k$

$f_a = 11.30/6.50 = 2.00$ ksi

$f_b = 29.00 \times 12/19.80 = 20.27$ ksi

$\left(\frac{f_a}{F_a}\right) + \left(\frac{f_b}{F_b}\right) = \left(\frac{2.00}{18.5}\right) + \left(\frac{20.27}{30}\right) = 0.98 < 1.33$

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CITY OF MOUNTAIN VIEW BUILDING INSPECTION DIV.
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(415) 830-6433

JOB: MEZZANINE - SYLVANIA
SHEET NO. 2
CALCULATED BY: DCP DATE: 8/9/83
CHECKED BY: DATE:
JOB # 8 8 2 2 7

EXPLANATION

CHECK EXISTG. SLAB
MAX. CAL. LOAD = 2.98 × 19.00 = 5.05 k
ALLOW. SOIL PRESS. = 2000 PSF
SLAB THICKNESS = 6"
A = 5.05/2.00 = 2.01 SQ. FT.
EXISTG. SLAB ADEQUATE TO PROVIDE LOAD
CHECK FOOTING SIZE
ONE FOOTG 7' × 10'
f'c = 5.05/(2 × 10 × 12) = 0.16 psi ok.

REGISTERED PROFESSIONAL ENGINEER
No. C 19875
CIVIL
STATE OF CALIFORNIA

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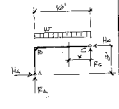
(415) 830-6433

JOB: GTE / SYLVANIA
SHEET NO. 1 B
CALCULATED BY: DCP DATE: 8/9/83
CHECKED BY: DATE:
JOB # 8 8 2 0 4 8

INTERIOR FRAME

(DL + LL)



$w' = (154 + 4) \times 20' = 2.98^k/'$
$I_B = 47.96 \times 2 = 175.16 \text{ in}^4$
$I_C = \left(\frac{22 \times 16.32}{2}\right) = 119.26 \text{ in}^4$
$K = (175.16/8)/(119.26 \times 16) = 0.794$
$N = 1 + .794 = 1.794$
$M_B = \frac{2.98 \times 10^2}{8 \times 1.794} = 47.01 \text{ '}^k$
$H_A = 47.01/8 = 5.95^k \qquad H_C = 5.95^k$
$R_A = (2.98 \times 8) + (47.01/10) = 28.62^k$
$R_C = (2.98 \times 8) - (47.01/10) = 17.66^k$
$x = 17.66/2.98 = 5.94'$
$M_x = (17.66 \times 5.94) - (2.98 \times \overline{5.94}^2/2) = 50.45 \text{ '}^k$

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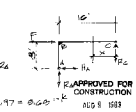
(415) 830-6433

JOB: GTE / SYLVANIA
SHEET NO. 1 B
CALCULATED BY: DCP DATE: 8/9/83
CHECKED BY: DATE:
JOB # 8 8 2 0 4 8

INTERIOR FRAME

(SEISMIC LOAD)



$F = 1.62^k \qquad H_A = 1.62^k$
$R_C = 1.62 \times 8/16 = 0.81^k = R_A$
$M_B = 1.62 \times 8 = 12.96^k$
$x = 5.97' \qquad M_x = 0.81 \times 5.97 = 5.03 \text{ '}^k$

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PER

VERTICAL LOAD + SEISMIC LOAD

BEAM ~ [(2) 16 × 8½ × 12 GA. (F_y = 80 ksi)
$S_x = 10.71 \times 2 = 21.42 \text{ in}^3$

$M_{MAX.} = 50.44 + 5.05 + 5.03 = 60.09 \text{ '}^k$
$f_b = 60.09 \times 12/21.42 = 33.02 \text{ ksi}$

COLUMN ~ [16 × 7 TO 8 × 7 × 12 GA. (F_y = 80 ksi)
(FLANGES FULLY EFFECTIVE)
$S_x = 16.0 \times 2 = 28 \text{ in}^3 \qquad A = 9.24 \times 2 = 18.48 \text{ in}^2$
$r_x = 6.42 \text{ in.} \qquad r_y = 2.97 \text{ in.} \qquad Q = 0.949$
$KL_x/r_x = 2.0 \times 8 \times 12/6.42 = 37$
$KL_y/r_y = 1.0 \times 8 \times 12/2.97 = 32$
$QF_y = .949 \times 80 = 80 \text{ ksi} \qquad F_a = 19.0 \text{ ksi}$
$P_{MAX.} = 29.62 + 0.81 = 30.43^k$

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MEZZANINE ~ SYLVANIA

SHEET NO. 1 OF
CALCULATION DSP DATE 6/1/83
CHECKED BY DATE
JOB NO. # 8804.43

GTE SYLVANIA SYSTEMS
MEZZANINE, SYLVANIA IV
RECEIVING - SHIPPING NO. 1

DESIGN CRITERIA:

FLOOR LIVE LOAD = 100 PSF
DEAD LOAD = 5 PSF
SEISMIC ZONE NO 4
DESIGN PER 1970 EDITION

FLOOR SHEATHING (DECK)

PLYWOOD SPAN = 2'-0
W = 105 + 32 = 137 PSF
USE: 3/4" THK PLYWOOD (2-4-1) T & G
ALLOW. LOAD = 200 PSF > 137 PSF

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PER

FLOOR JOIST

MAX SPAN = 20'-0
W = (105 + 32) × 2.0' = 275 #/ft
M = 275 × (20)²/8 = 12.16'-k , V = 2.50k
USE: 2" × 12" × 14.4# , I_xx = 1.69 in⁴ , I_yy = 27.77 in⁴ , F_b = 1.6 ksi
f_bx = 12.16 × 12/4.46 = 31.72 ksi < 1.6 ksi
Δ = PL³/48EI = 2.50(14)³ × 1728 / 48 × 1.69 × 29000 = 0.17 = L/1.49
GOVERNS: USE 2-2" × 12" W.G. @ 2'-0 on center
ALLOW SHEAR = 2 × 1.50 = 3.00 k > 2.50 k

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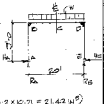
MEZZANINE ~ SYLVANIA

SHEET NO. 2 OF
CALCULATION DSP DATE
CHECKED BY DATE
JOB NO. # 8804.43

INTERIOR FRAME ANALYSIS

RIGID FRAME ANALYSIS FROM COMPUTER
DATA (PGM - KLEINLOGEL - 1 UNIVERSE)



W = (105 + 32) × 20' = 2.6 k
Ra = Rb = 2.6 × 10.0 = 26 k
Ha = Hb = 2.6 × 7.06 = 9.4 k
Mb = Mc = 2.6 × 21.92 = 56.9 k'
Mc = 2.6 × 28.06 = 74.97'-k

BEAM ~ MAX MOM = 74.97'-k
USE: 2-C15×40.5×12GA (F_b = 20 ksi , S_x = 2 × 10.11 = 21.42 in³)
F_b = 74.97 × 12 / 21.42 = 41.75 < 48 ksi

COLUMN ~ MAX MOM = 56.9'-k , P = 26.0 k
USE: 2-12 TO 8 × 3.5 × 10 GA (WELDED TO FORM BOX COL)
AVG. SECTION: 3.11 × 7 × 10 GA (F_y = 80 ksi)
A = 3.40 in² , I_x = 4.22 in⁴ , r_y = 1.82 in , Q = 0.736
kl/r_x = 2 × 28 × 12/4.22 = 159.90
kl/r_y = 1 × 28 × 12/1.82 = 184.73
F'_a = .785 × 80 × 3.40 = 209 kips , F_a = 19.0 ksi
f_a = 26.0/3.40 = 7.65 ksi
@ WELDS: S_x = 2 × 4 = 28.5 in³ , f_b = 56.9 × 12/28.5 = 23.75 ksi
(f_a/F_a) + (f_b/F_b) = (7.65/19.0) + (23.75/48) = 1.0

COLUMN ADEQUATE FOR COMBINED LOADING

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MEZZANINE ~ SYLVANIA

SHEET NO. 3 OF
CALCULATION DATE
CHECKED BY DATE
JOB NO. # 8804.43

BEAM TO COLUMN CONNECTION ~ M = 56.42'-k , V = 2.60 k

USE: 8-3/4" ϕ A.S. BOLTS (A325) @ 1 1/2" ϕ BOLT < 2 DIA
V_b = (56.42 × 12) / (7 × 8 × 0.75) = 6.28 k/BOLT
V_s = 2.6 / 2 × 8 = 0.65 k/BOLT
V_tot = √(6.28² + 0.65²) = 6.28 k/BOLT < 8.82 k/BOLT

VERTICAL ANALYSIS

W = (9 + 31.92) × 20 × 80 = 80.0^k
V = K·W = 2.0 × 1.0 × 80.0 = 11.0^k
M_b = M_c = (11.0/2) × (9/2) = 24.2'-k < 56.42'-k
SEISMIC LOAD NOT CRITICAL

LONG TUDINAL ANALYSIS

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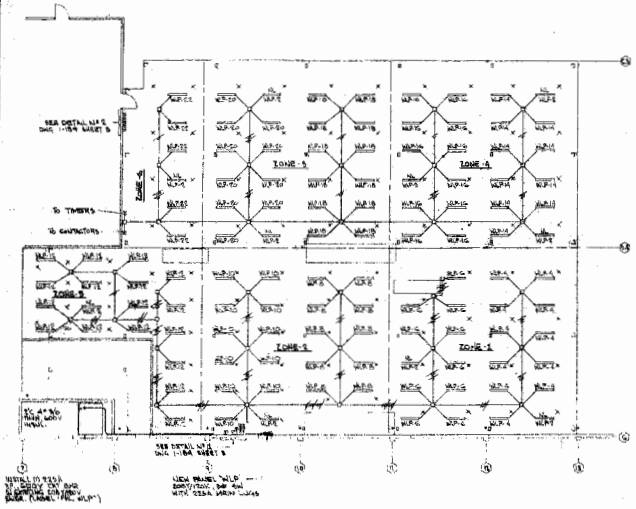
W = (9 + 31.92) × 10' × 120' = 78.0^k
V = 2.0 × 1.0 × 78.0^k = 19.5^k
M = (19.5/2) × (9/2) = 43.9'-k
SEISMIC LOAD TO BE DESIGNED BY CORNER COLS
& STRUTS @ MOMENT CONNECTION. USE 2-3/4" ϕ H.S. BOLTS @ 1 1/2" ϕ BOLT CIRCLE

STRUT: USE 4" × 10" × 10 GA (F_y = 50 ksi , S_x = 15.70 in³)
f_b = 43.9 × 12 / 15.70 × 1.33 = 25.15 < 30 ksi

CORNER COL: USE C 17" × 9.3 × 8" × 10 GA (F_y = 50 ksi , S_x = 13.5 in³)
f_b = 43.9 × 12 / 13.5 × 1.33 = 23.25 < 30 ksi

STRUT/COL CONN.: USE 8 - 3/4" ϕ H.S. BOLTS @ 1 1/2" ϕ BOLT CIRCLE
M = 43.9
V = (43.9 × 12) / 6 × 0.75 = 8.44 k/BOLT
ALLOW SHEAR = 3.72 × 1.33 = 12.33 k/BOLT

#41



1st FLOOR LIGHTING PLAN UNDER MEZZ. BW 1-2 (STORAGE)

SCALE: 1/8"=1'-0"

FIXTURE SCHEDULE

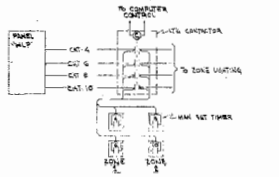
1 LAMP / 8 FWT. SURFACE MOUNTED FLUORESCENT LTG. FIXTURE WITH ASTI BALLAST. WHITEMARK CAT NO. FS2SM-1-48RS AND SYLVANIA LAMPS F48CW/RS/SS/270. RATED 54 WATTS EACH. LAMP & BALLAST TOTAL 60 WATTS PER FIXTURE

SYMBOL LIST

F : TIMER.

W : CONTACTOR, LIGHTING

■ : 208/120 1Ø PANEL



CONTACTOR "A" WIRING DIAGRAM
CONTACTOR "B" TYPICAL
CONTACTOR "C" TYPICAL WAGES ONLY
ONE SET OF CONTACTS USED.

NOTES:
ZONE 1,2,3,4,5 CONTROLLED BY COMPUTER AND 1 MANUAL SET TIMER 0 TO 12HR BYPASS FOR 1STOR 1HOUR OPERATION
LIGHTING ZONE 5,7,8,9,10,11,12 & 13 MANUAL CONTROLLED 0 TO 12HR TIMERS ONLY

APPROVED FOR CONSTRUCTION
AUG 9 1982
CITY OF MOUNTAIN VIEW BUILDING INSPECTION DIV.

This plan and calculations have been checked against Title 24 requirements for energy conservation.
Energy Analyst Date

I have reviewed the current California Conservation Standards for non-residential buildings. To the professional judgement, the design in this set of plans and specifications conforms with Division 4, Lighting Part 2.

Date

GTE Sylvania Systems Group Western Division Mountain View, CA 94042

MEZZANINE AT SHIPPING & RECEIVING AREA BUILDING 1, ROOM 1-2

FIRST FLOOR LIGHTING PLAN (UNDER MEZZ.)

D 07997 PLANT INDEX 1-184

SHEET 3 OF 4

DIG x 10 ga. COR. COL. 4-27-81 3/3

$\bar{y} = 28.192/5.497 = 5.124$ in.

$I_{xx} = I_{yy} = 188.277$ in.^{4} (FULL SECTION)

EFFECTIVE SECTION

TOP FLANGE: $b/t = 15.292/.135 = 113.27$

w/t (LIMIT) $= 171/\sqrt{30^{1}} = 31.22$

$b/t = \frac{253}{\sqrt{30^{1}}}\left[1 - \frac{55.3}{(31.22)\sqrt{30^{1}}}\right] = 31.25$ (REF.)

$b = 31.25 \times .135 = 4.22$ in. (EFFECTIVE FLG)

LOWER FLANGE: $b/t = 2.792/.135 = 20.68$
(FULLY EFFECTIVE)

REDUCTION: $I_x = .88(15.292 - 4.22) \cdot (5.050)^2 = 35.31$ in.^{4}

EFFECTIVE $I_{xx} = 188.28 - 35.31 = 152.97$ in.^{4}

$S_{xx} = 152.97/10.876 = 13.93$ in.^{3}

$r = \sqrt{188.28/5.50} = 5.86$ in.

$Q = 4.71/5.50 = 0.73$

dkp Engineering
CONSULTING ENGINEERS
400 So. Ports Ave., Suite 204
Ontario, CA 91761
APPROVED FOR CONSTRUCTION
AUG 6 1982
CITY OF MOUNTAIN VIEW
BUILDING INSPECTION DIV.
PER _____

DIG x 10 ga. CORNER COL. 3/3

$F_y = 80$ ksi

EFFECTIVE SECTION

TOP FLANGE: $b/t = 15.292/.135 = 113.27$

w/t (LIMIT) $= 171/\sqrt{80} = 21.68$

$b/t = \left(\frac{253}{\sqrt{80}}\right)\left[1 - \left(\frac{55.3}{(24.68)\sqrt{80}}\right)\right] = 24.71$

$b = 24.71 \times .135 = 3.34$ in. (EFFECTIVE FLG)

LOWER FLG. ~ $b/t = 2.792/.135 = 20.68 < 24.68$
(FULLY EFFECTIVE)

REDUCTION: $I_x = .135(15.292 - 3.34) \times (5.050)^2$
$I_x = 41.24$ in.^{4}

EFFECTIVE $I_{xx} = 188.28 - 41.24 = 147.04$ in.^{4}

EFFECTIVE $S_{xx} = 147.04/10.876 = 13.52$ in.^{3}

$Q = 3.89/5.50 = 0.71$

APPROVED FOR CONSTRUCTION
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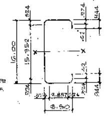
CITY OF MOUNTAIN VIEW
BUILDING INSPECTION DIV.
PER _____

D. C. PARCO ENGINEERING, INC.
401 So. Hartz Ave. Suite 104
DANVILLE, CALIFORNIA 94526
(415) 838-6432

SECTION PROPERTIES
SHEET NO. 1 OF
CALCULATED BY PCP DATE 9-15-82
CHECKED BY DATE
SCALE Job No. 82063

C 16 × 3½ × 12 GA.

F_y = 80 KSI F_b = 48 KSI
t = .105 IN.
CORNERS: INSIDE RADIUS = 0.219 IN.
L = 1.57 × (.219 + t/2) = 0.430 IN.
C = 0.637 × (.219 + t/2) = 0.173 IN.



AISI SPECIFICATIONS / 1980
WEB: b/t = 146.21 < 200 FULLY EFFECTIVE
LIP: w/t = 5.90 < 60 FULLY EFFECTIVE
FLANGE: w/t (LIMIT) = 171/√f = 24.68

FULL SECTION PROPERTIES @ X-AXIS					
ELEMENT	L	d	Ld^2	I_o	I_x
TOP FLG.	2.852	7.948	180.168	–	180.168
TOP CORN.	0.852	7.849	52.489	–	52.489
TOP LIP	0.520	7.966	33.040	0.020	33.060
WEB	15.352	–	–	301.518	301.518
LOW. FLG.	2.852	7.948	180.168	–	180.168
LOW. CORN.	0.852	7.849	52.489	–	52.489
LOW. LIP	0.520	7.966	33.040	0.020	33.060
TOTAL	24.000		582.584	301.558	834.142

I_x = 834.142 × .105 = 87.58 IN.⁴ (FULL SECTION)

EFFECTIVE SECTION:
FLANGE: w/t = 2.852/.105 = 27.16
b/t = 253/√48 [1 − 55.3/(27.16 √48)] = 25.79
b = 25.79 × .105 = 2.708 IN. (EFF. FLG.)
REDUCTION: I_x = 0.144 × .105 × (7.948)² × 2 = 1.91 IN.⁴
I_x = 87.58 − 1.91 = 85.67 IN.⁴

S_x = 85.67 / 8.0 = 10.71 IN.³

D. C. PARCO ENGINEERING, INC.
401 So. Hartz Ave. Suite 104
DANVILLE, CALIFORNIA 94526
(415) 838-6432

SECTION PROPERTIES
SHEET NO. 2 OF
CALCULATED BY PCP DATE 9-15-82
CHECKED BY DATE
SCALE # 82063

C 16 × 3½ × 10 GA.

F_y = 80 ksi F_b = 48 ksi
t = .135 IN.

WEB: b/t = 15.352/.135 = 113.72 < 200 O.K.

LIP: w/t = .62/.135 = 4.59 < 60 O.K.

FLANGE: W/t (LIMIT) = 171/√48 = 24.68
W/t = 2.852/.135 = 21.15 < 24.68 O.K.

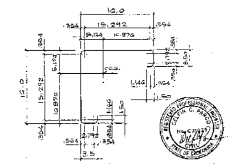
SECTION IS FULLY EFFECTIVE @ X-AXIS

I_x = 112.0 IN.⁴

S_x = 14.0 IN.³

APPROVED FOR CONSTRUCTION
AUG 8 1983
CITY OF MOUNTAIN VIEW
BUILDING INSPECTION DIV.
PER

DIG × 10GA. COR. COL. 4-27-81 1/-



16 × 16 × 3½ × 10 GA. (F_y = 50 ksi)

(DESIGN PER AISI SPECS, 1980 EDITION)

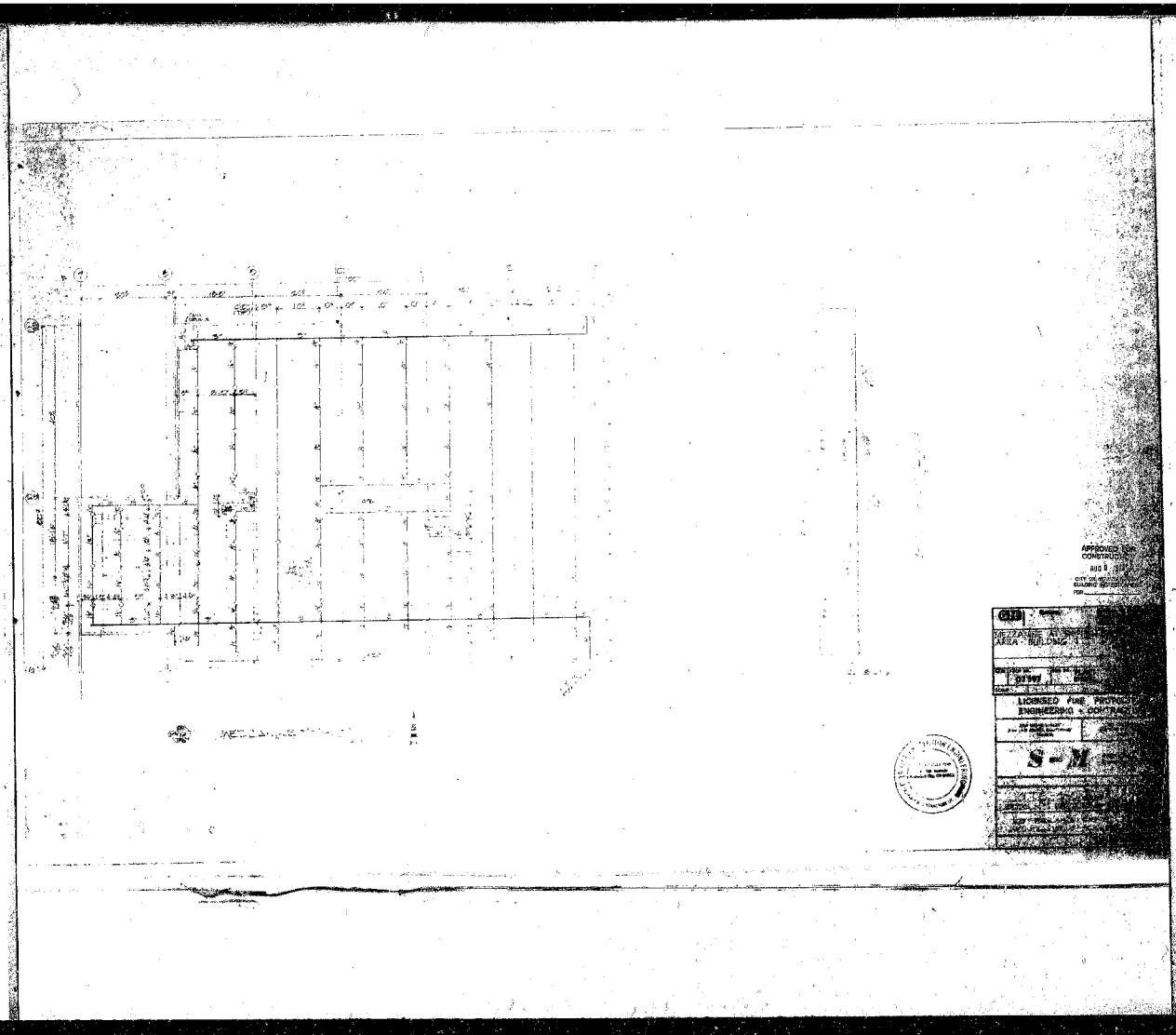
t = .135 IN. R = 0.219 (INSIDE RADIUS)

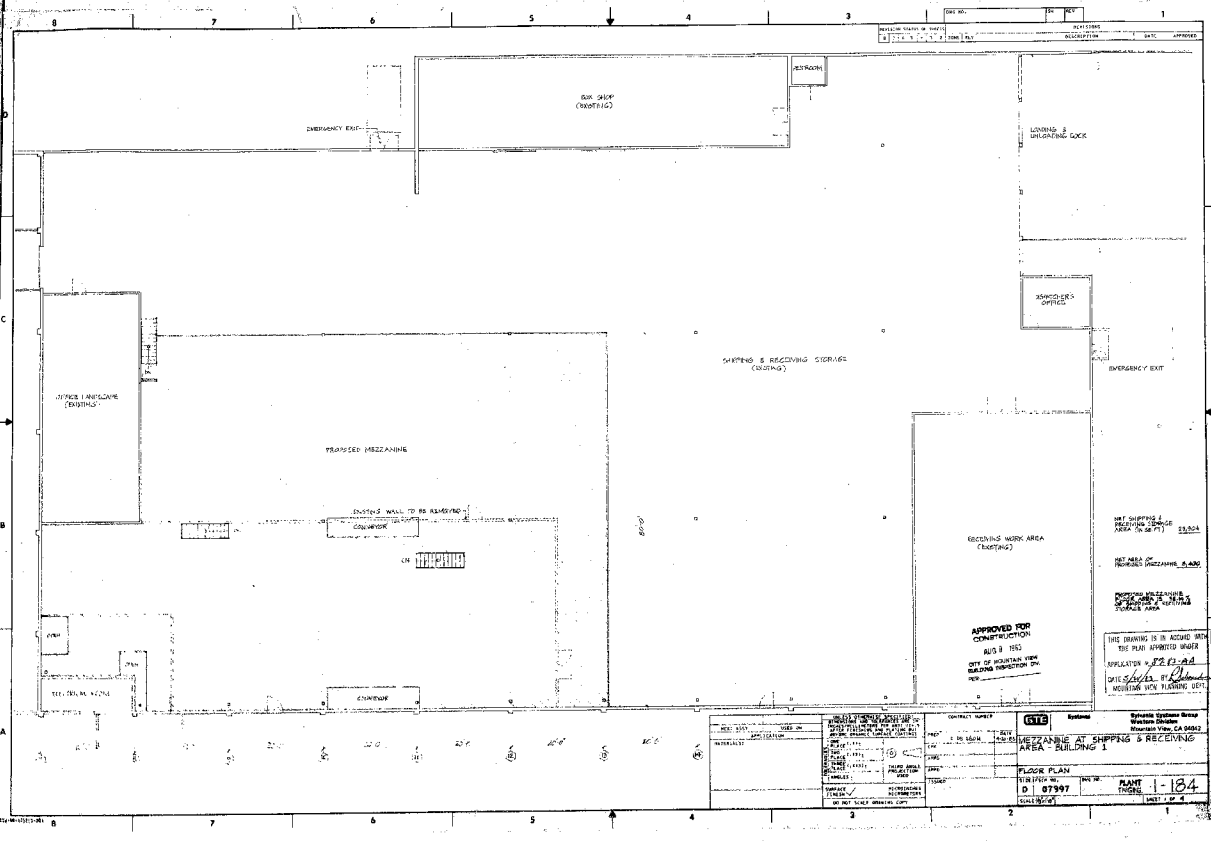
CORNER: R = .219 + (.135/2) = .286 IN.
L = 1.57 × .286 = 0.45 IN.
C = 0.637 × .286 = 0.182 IN.

APPROVED FOR CONSTRUCTION
AUG 8 1983
CITY OF MOUNTAIN VIEW
BUILDING INSPECTION DIV.
PER

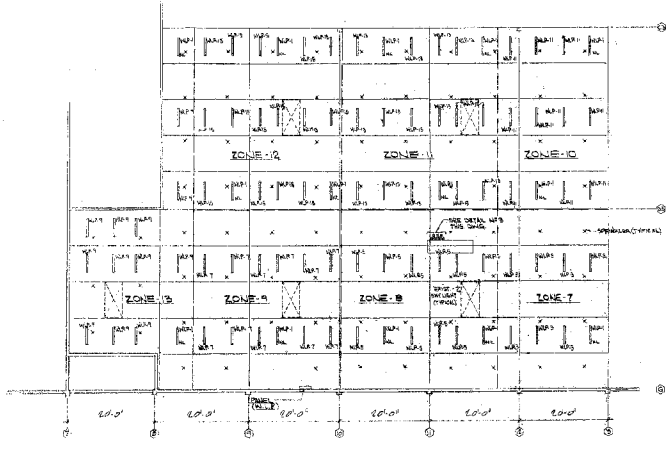
FULL SECTION PROPERTIES

ELEMENT	A	y	Ay	d	Ad^2	I_o	I_x
TOP FLG.	2.064	0.068	0.140	5.555	92.762	–	92.762
TOP CORN.	0.122	0.172	0.021	4.952	2.992	–	2.992
WEB (R)	0.377	1.750	0.660	3.374	4.292	0.245	4.537
WEB (L)	2.064	8.00	16.512	2.876	17.072	40.230	57.302
TOP LIP	0.155	5.432	0.582	1.692	0.443	–	0.443
LOW. CORN.	0.122	15.828	1.931	10.704	13.978	–	13.978
LOW FLG.	0.377	15.932	6.006	10.808	44.038	–	44.038
LOW LIP	0.155	15.137	2.151	8.808	12.01	0.017	12.029
MID. CORN.	0.061	3.928	0.293	1.796	0.197	–	0.197
TOTAL	5.497		28.194		147.775	40.492	188.277

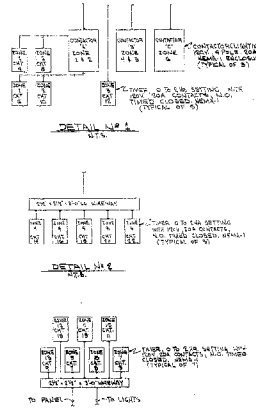

APPROVED FOR CONSTRUCTION
AUG 8
MEZZANINE AT
AREA - BUILDING
LICENSED FIRE PROTECTION
ENGINEERING & CONTRACTING
S-M



BOX SHOP (EXISTING)
RESTROOM
EMERGENCY EXIT
LOADING & UNLOADING DOCK
SHIPPING & RECEIVING STORAGE (EXISTING)
SHIPPING & RECEIVING OFFICE
EMERGENCY EXIT
OFFICE & MAINTENANCE (EXISTING)
PROPOSED MEZZANINE
EXISTING WALL TO BE REMOVED
CONVEYOR
RECEIVING WORK AREA (EXISTING)
APPROVED FOR CONSTRUCTION
AUG 8 1983
CITY OF MOUNTAIN VIEW BUILDING INSPECTION DIV.
NET SHIPPING & RECEIVING STORAGE AREA (6.66 FT) 29,804
NET AREA OF PROPOSED MEZZANINE 6,430
PROPOSED MEZZANINE WORK AREA 2 14.9% OF SHIPPING & RECEIVING STORAGE AREA
THIS DRAWING IS IN ACCORD WITH THE PLAN APPROVED UNDER APPLICATION # 82-13-AA
DATE 5/4/83 BY
MOUNTAIN VIEW PLANNING DEPT.
GTE Systems
Sylvania Systems Group
Western Division
Mountain View, CA 94042
MEZZANINE AT SHIPPING & RECEIVING AREA - BUILDING 1
FLOOR PLAN
D 07997
PLANT TYPING 1-184
SHEET 1 OF 4
DO NOT SCALE DRAWING COPY



MEZZ LIGHTING & RECEPT. PLAN RM.1.1 (STORAGE)



APPROVED FOR CONSTRUCTION
AUG 9 1983
CITY OF MOUNTAIN VIEW
BUILDING INSPECTION DIV.

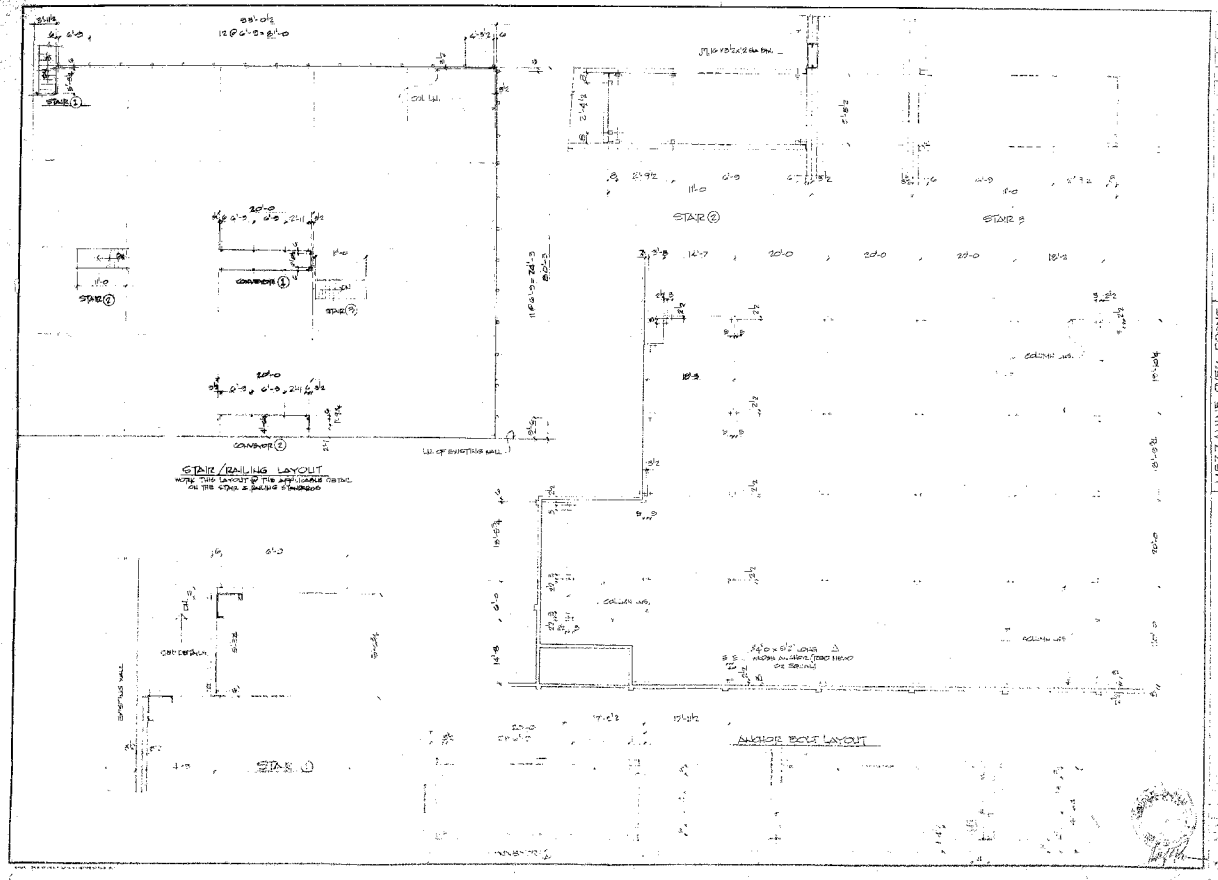
GTE Systems
Sylvania Systems Group
Western Division
Mountain View, CA 94042

MEZZANINE AT SHIPPING & RECEIVING AREA - BUILDING 1, ROOM 1.1

MEZZANINE LIGHTING & RECEPT. PLAN

D 07397 | PLANT ENGRG. | 1-184

SHEET 2 OF 4



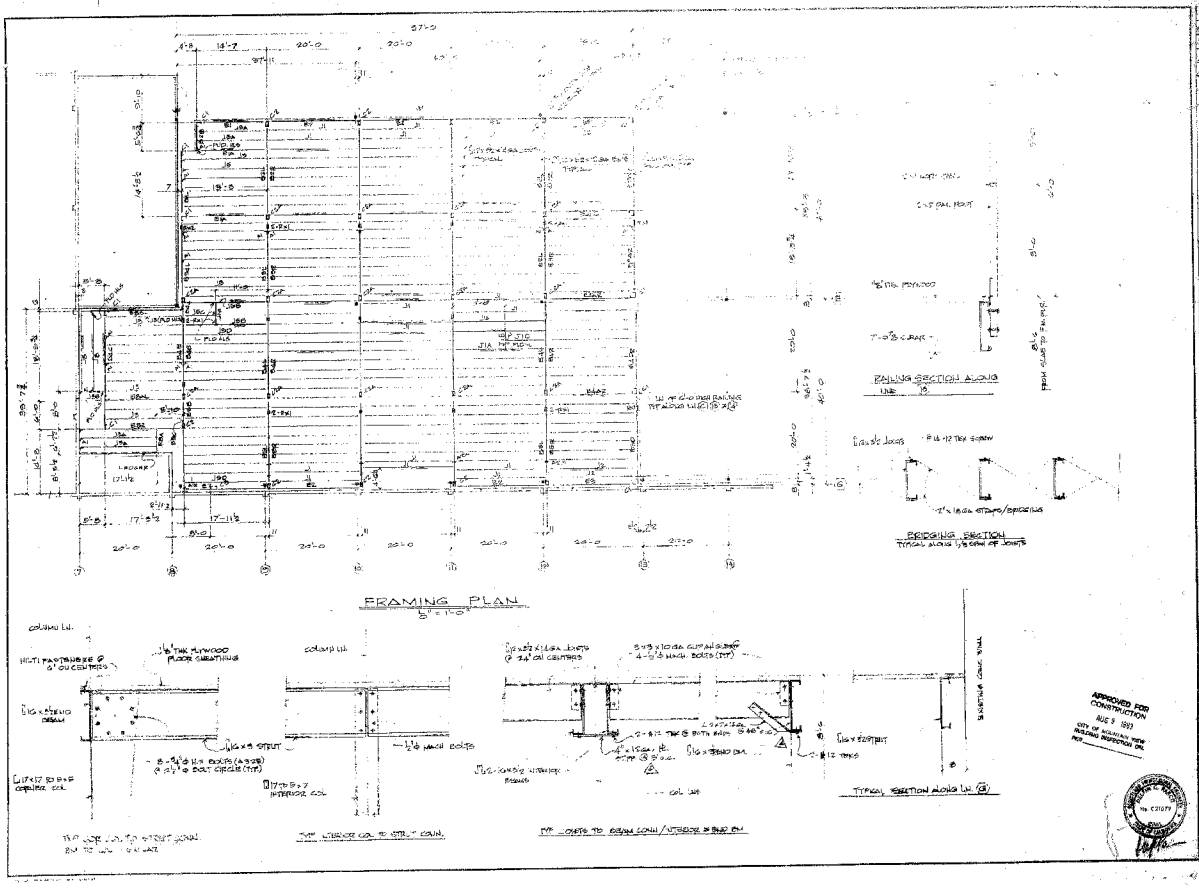
MEZZANINE OVER ROOMS
1080 & 1082 - SHIPPING &
RECEIVING - BLDG. 1
STE. SYLVANIA SYSTEMS

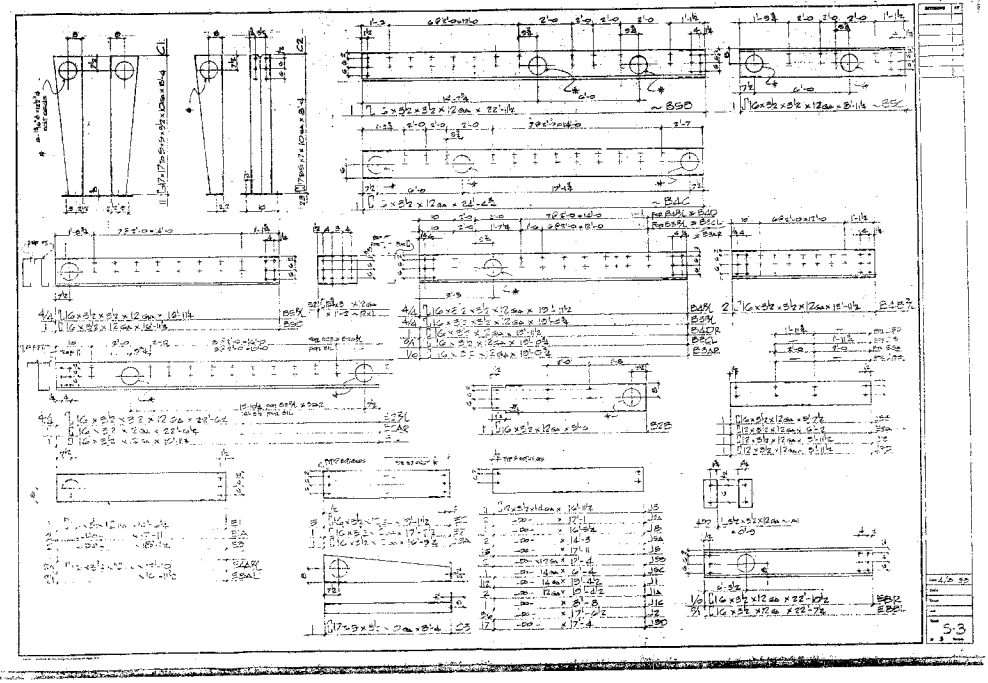
dcp arco engineering

CONSULTING engineers (ASSOCIATES)
STRUCTURAL

2

APPROVED FOR CONSTRUCTION
AUG 8 1981
CITY OF MOUNTAIN VIEW
BUILDING INSPECTION DIV
REV.


FRAMING PLAN
RAILING SECTION ALONG LINE 15
BRIDGING SECTION
TYPICAL SECTION ALONG LN. (G)
COLUMN LN.
HILTI FASTENERS @ 6' ON CENTERS
1/8" THK PLYWOOD FLOOR SHEATHING
1/16 x 3 STRUT
1/2" MACH BOLTS
TYP INTERIOR COL TO STRUT CONN.
TYP COVERS TO BEAM CONN / INTERIOR BEAM BM
APPROVED FOR CONSTRUCTION
AUG 9 1993
CITY OF MOUNTAIN VIEW
BUILDING INSPECTION DIV.
FRAMING PLAN & SECTIONS
MEZZANINE OVER ROOMS
1080 & 1082 - SHIPPING
& RECEIVING - BLDG NO. 1
GTE SYLVANIA SYSTEMS
dcp
Engineering Consultants
Dwg. No. 5/31/83
Date 5/31/83
Scale As Noted
Drawn DCP
Job 83045
Sheet 1



APPROVED FOR CONSTRUCTION

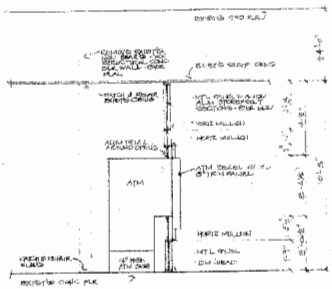
AUG 2 1971

CITY OF MOUNTAIN VIEW
BUILDING INSPECTION DIV.
PER _____

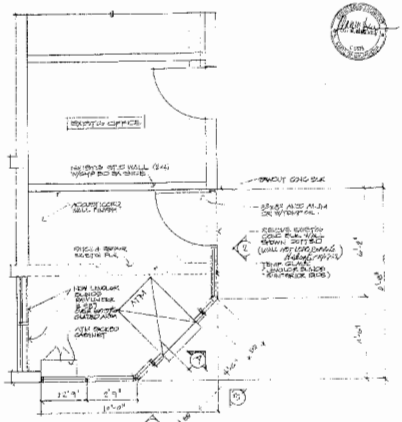
5-3

GENERAL NOTES

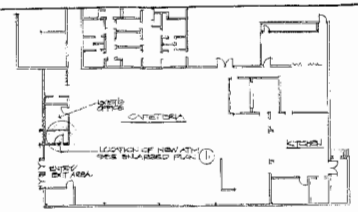
1. ALL NEW WORK SHALL CONFORM TO THE 1982 UNIFORM BUILDING CODE AND ALL APPLICABLE LOCAL BUILDING CODES AND REGULATIONS.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND DEVIATIONS OR OMISSIONS PRIOR TO CONSTRUCTION.
3. VERIFY STRUCTURAL REQUIREMENTS PRIOR TO THE START OF ANY CONSTRUCTION.
4. ALL NEW TELEPHONE EQUIPMENT TO BE INSTALLED BY TELEPHONE COMPANY.
5. ALL NEW ELECTRICAL WORK SHALL BE COMPLETE UNDER SEPARATE PERMIT.
6. REFINISH ALTERED AND PATCH NEW SURFACES WITH MATERIALS AND COLORS TO MATCH ADJACENT AND ADJACENT SURFACES.



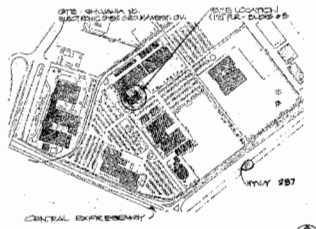
(A) WALL SECTION AT ATM



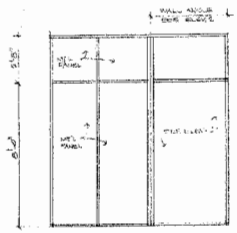
(1) PLAN AT AREA OF ATM INSTALLATION



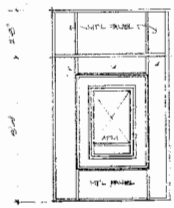
KEY - PLAN



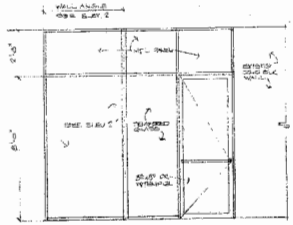
SITE PLAN



(4) WALL ELEV.



(3) WALL ELEV. AT ATM



(2) WALL ELEV.

VICINITY MAP

TRANSPAC ELECTRONICS INC.,
742 HAMPSHIRE RD., WESTLAKE VILLAGE, CA., 91361 (213) 991 5204

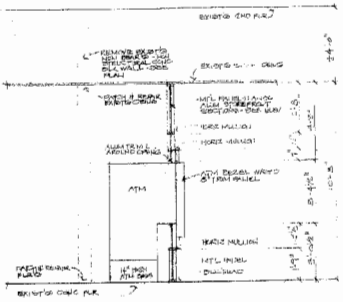
DALE M BERGERSON · ARCHITECT · AIA
17928 VENTURA BLVD · SUITE 311 · ENCINO, CALIFORNIA 91316 · 981 7404

DATE	REVISIONS
10/10/83	PLANS FOR BLDG. DEPT.

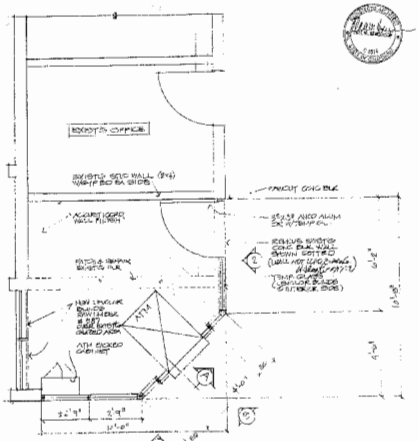
DRAWN: DATE: 10/10/83
SCALE: AS NOTED
DRAWING NO. 1
SHEET NO. 1 OF 1 SHEETS
TITLE: WALLS, FLOOR, SPACE, SITE & SIGNAGE PLAN, ELEVATIONS & SPECIAL DRAWINGS FOR ATM INSTALLATION, LOS ANGELES CO.
PROJECT: ATM INSTALLATION DETAILS

GENERAL NOTES.

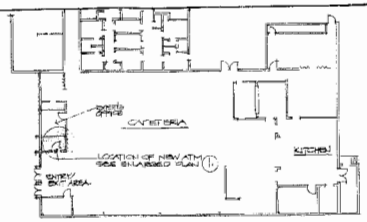
1. ALL NEW WORK SHALL CONFORM TO THE 1982 UNIFORM BUILDING CODE AND ALL APPLICABLE LOCAL BUILDING CODES AND REGULATIONS.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND THE REQUIRED CLEARANCES PRIOR TO CONSTRUCTION.
3. VERIFY STRUCTURAL REQUIREMENTS PRIOR TO THE START OF ANY CONSTRUCTION.
4. ALL NEW TELEPHONE EQUIPMENT TO BE INSTALLED BY TELEPHONE COMPANY.
5. ALL NEW ELECTRICAL WORK SHALL BE COMPLETED UNDER SEPARATE PERMIT.
6. RESTORE ALTERED AND FINISH NEW SURFACES WITH MATERIALS AND COLORS TO MATCH ADJACENT ANY ADJOINING SURFACES.



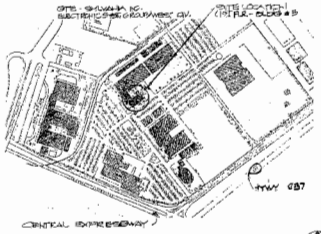
A WALL SECTION AT ATM



1 PLAN AT AREA OF ATM INSTALLATION

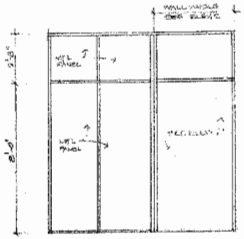


KEY - PLAN

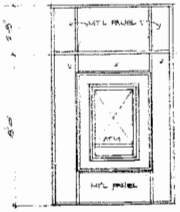


SITE PLAN

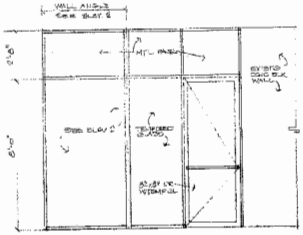
VICINITY MAP



4 WALL ELEV.



3 WALL ELEV. AT ATM



2 WALL ELEV.

TRANSPAC ELECTRONICS INC.,
742 HAMPSHIRE RD., WESTLAKE VILLAGE, CA., 91361 (213) 991 5204

DALE M BERGERSON · ARCHITECT · A I A
17009 VENTURA BLVD · SUITE 311 · ENCINO, CALIFORNIA · 91316 · 981 7616

NO.	DATE	REVISIONS
1	10/10/86	PLANS & ELEV. CHANGES

TITLE: WESTLAKE BANK - SITE SYMBOL
LOCATION: 742 HAMPSHIRE RD.
WESTLAKE VILLAGE, CA. 91361

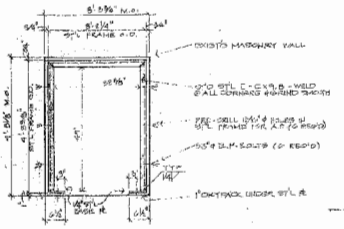
SHT. 1 OF 1 SHTS.

DATE: 4 FEB 1986
TITLE: ATM INSTALLATION DETAILS

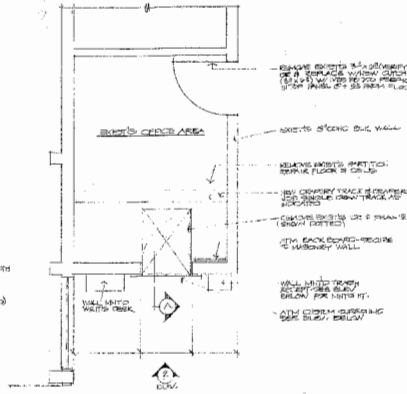
#130

GENERAL NOTES

1. ALL NEW WORK SHALL CONFORM TO THE 1979 UNIFORM BUILDING CODE AND ALL APPLICABLE LOCAL BUILDING CODES AND REGULATIONS.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
3. ALL NEW TELEPHONE EQUIPMENT TO BE INSTALLED BY TELEPHONE COMPANY.
4. ALL NEW ELECTRICAL WORK SHALL BE COMPLETED UNDER SEPARATE PERMIT.
5. REPAINT ALTERED AND FINISH NEW SURFACES WITH MATERIALS AND COLORS TO MATCH ADJACENT NEC ARCHITECTS SUPERVISION.
6. CONTRACTOR REMOVAL AND/OR RELOCATION OF EXISTING FURNITURE WITH OWNER/OWNER PRIOR TO CONSTRUCTION.
7. WHERE NEW TO EXISTING INSTALLED SPRINKLER INTERLOCK ALARM SYSTEM

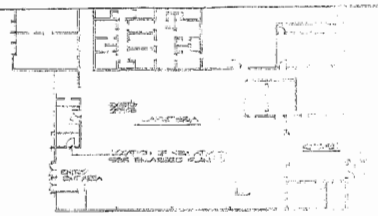


3 ST'L FRAME DETAIL AT WALL OPENING

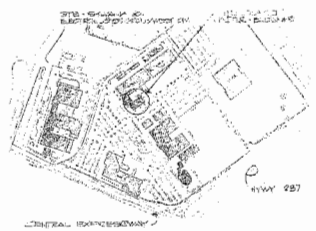


1 PLAN AT AREA OF ATM INSTALLATION

SCALE 1/4"=1'-0"

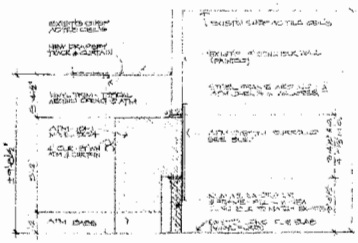


KEY - PLAN



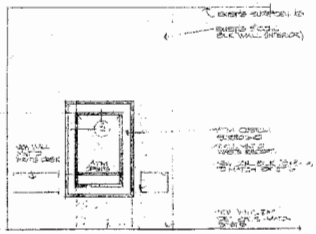
SITE PLAN

VICINITY MAP



A WALL SECTION AT ATM

SCALE 1/4"=1'-0"



2 WALL ELEV AT ATM

SCALE 1/4"=1'-0"

TRANSPAC ELECTRONICS INC.,
742 HAMPSHIRE RD., WESTLAKE VILLAGE, CA., 91361 (213) 991 5204

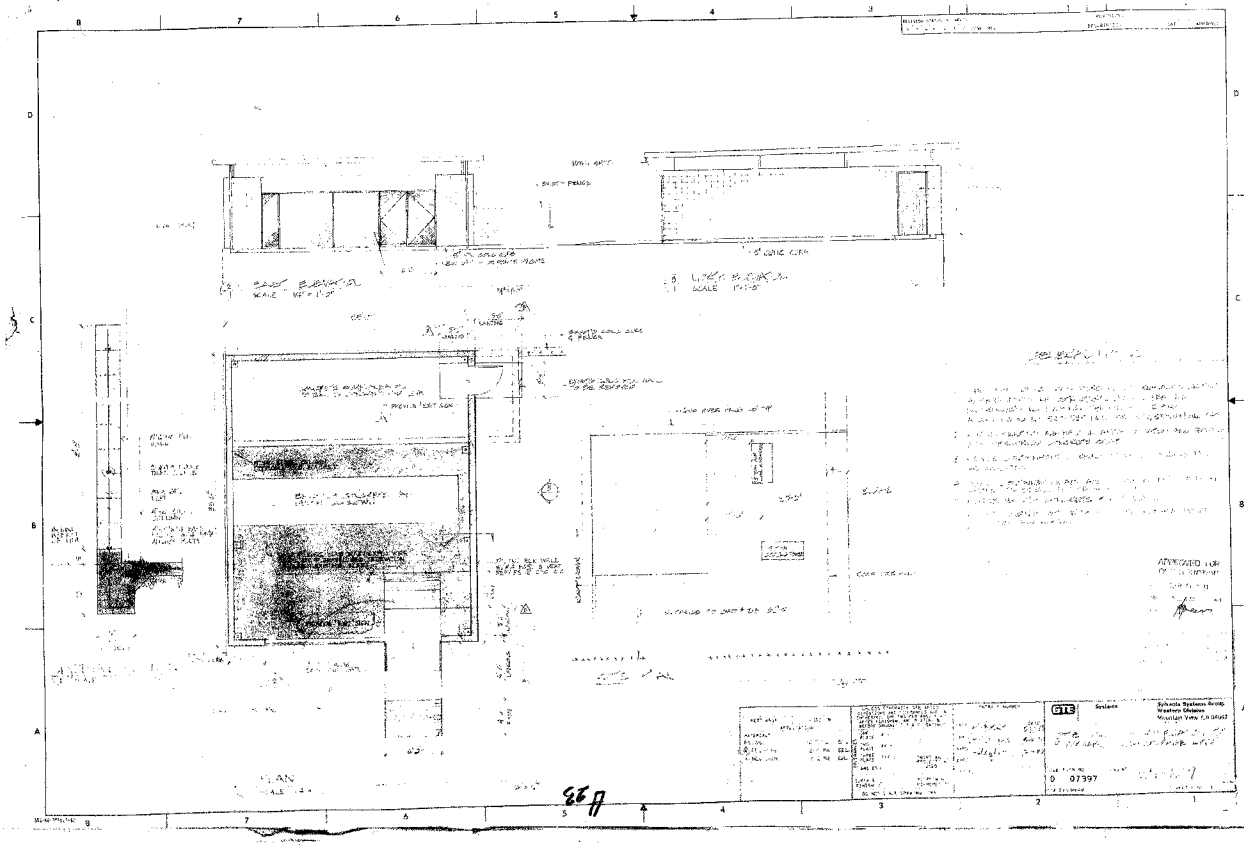
DALE M BERGERSON ARCHITECT · AIA
17808 VENTURA BLVD · SUITE 311 · ENCINO, CALIFORNIA 91316

TITLE: VARIOUS PLANS SHOWING ATM INSTALLATION, ELEVATIONS & SITE PLAN FOR TRANSPAC ELECTRONICS INC. 742 HAMPSHIRE RD., WESTLAKE VILLAGE, CA.

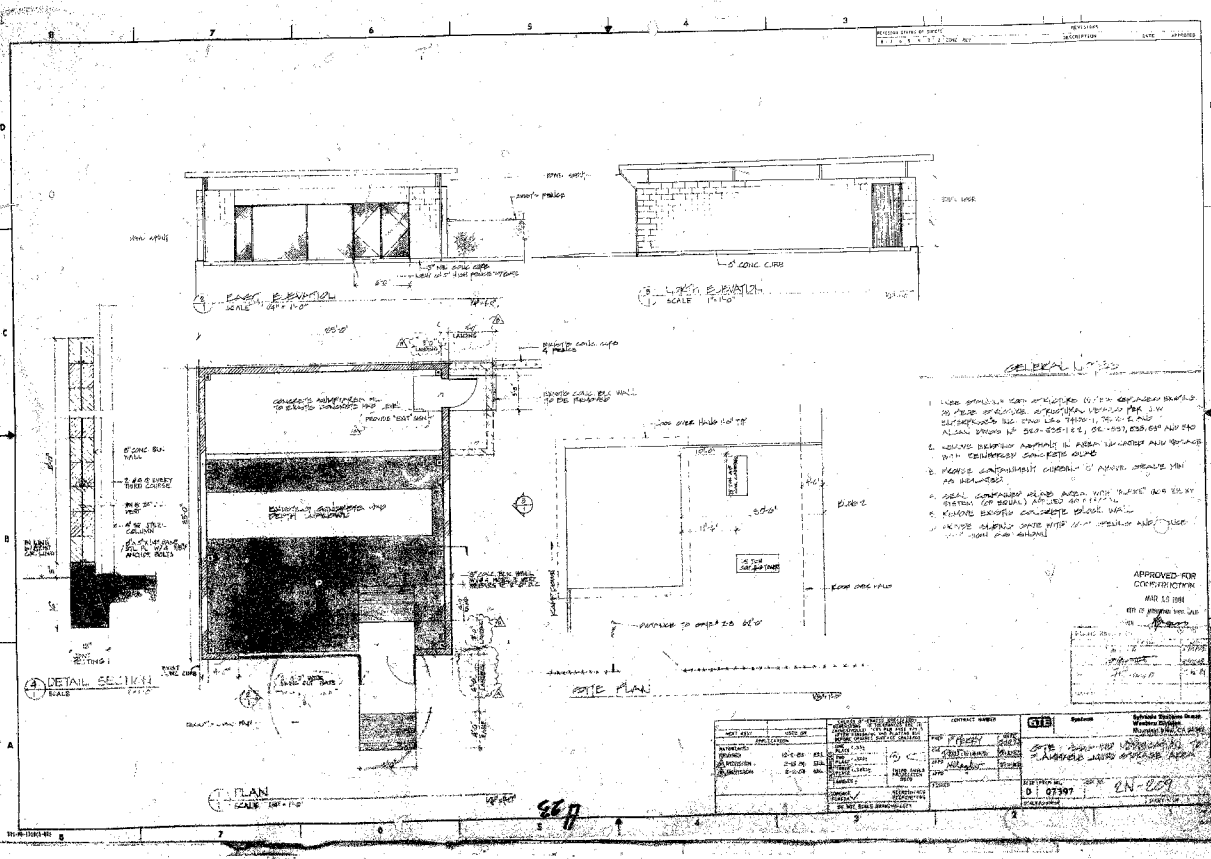
SHT. 1

DATE: SEPT 1982

SEP 7 1982


GTE
Sylvania
Sylvania Systems Group
Western Division
Mountain View, CA 94043
D 07397

B23


EAST ELEVATION
SCALE 1/4" = 1'-0"
NORTH ELEVATION
SCALE 1" = 1'-0"
DETAIL SECTION
SCALE
PLAN
SCALE 1/4" = 1'-0"
SITE PLAN
GENERAL NOTES
APPROVED FOR CONSTRUCTION
MAR 13 1984
D 07397
2N-209

CHEMICAL STORAGE BUILDING B-2N
ALKALINES, BASES INVENTORY LIST — PAGE 1

Volatile Low Vaporization / Explosive

ROOM II CHEM #	CHEMICAL NAME	CONTAINER SIZE	SEPTEMBER 1985 INVENTORY
2 1	ALUM CLEANER NST	20 GL DRUM	52
2 2	ALUM ETCHANT 33	30 LB DRUM	297
2 3	AMMONIUM CHLORIDE	1 LB JAR	1
2 4	AMMONIUM FLUORIDE	1 GL JUG	15
2 5	AMMONIUM DICHROMATE	1 LB JAR	6
2 6	AMMONIUM HYDROXIDE	1 GL JUG	31
2 7	ANOMET ELECTROLESS	3 GL KIT	2
2 8	ANTIOXIDENT	50 LB BAG	100
2 9	AUTRONEX C-I SALTS	25 LB BAG	15
2 10	ARP 210	5 GL BOX	6
2 11	BIOWLEEN 5779	5 GL BOX	75
2 12	CALCIUM NITRATE	50 LB BAG	50
2 13	CLARIFLOC E-207	50 LB BAG	100
2 14	CLOROX BLEACH	1 GL JUG	3
2 15	DEOXIDIZER 3	3 LB JAR	1
2 16	DETERGENT 40	50 LB BAG	46
2 17	ELECTROSTATIC ETCH	55 GL DRUM	60
2 18	ENSTRIP NP-1	5 GL CONT	5
2 19	ENSTRIP NP-2	5 GL CONT	5
2 20	FLAKE CAUSTIC SODA	100 LB [illegible]	25
2 21	GLO-LOK FINISH	1 GL JUG	1
2 22	HIGH CALCIUM LIME	50 LB BAG	100
2 23	TEC 600 DEFLOCCULANT	34 LB DRUM	36
2 24	TEC 730 DEFLOCCULANT	55 GL DRUM	44
2 25	IRIDITE 1P	75 LB DRUM	38
2 26	IRIDITE 1BP	75 LB DRUM	7
2 27	MACRO MAG 5-19	5 GL PAIL	5
2 28	NACCONAL NR	50 LB BAG	25
2 29	NICKELOUS SULFATE	1 LB JAR	100
2 30	NICKEL SULFATE	5 LB JAR	30
2 31	NICKEL SULFATE	25 LB BOX	1
2 32	NO 320 PLATE CLEANER	1 GL JUG	6
2 33	NOVATO PUMICE	25 LB BAG	6
2 34	NP 200 STRIPPER	1 GL JUG	4
2 35	PCS - COLOR SOL	2.5 GL JUG	35
2 36	POTASSIUM HYDROXIDE	1 GL JUG	20
2 37	PUMICE	100 LB BAG	40
2 38	ROCHELLE SALTS	75 LB DRUM	30
2 39	R-10	1 GL JUG	1
2 40	SCRUB CLEANER II	100 LB DRUM	190

CHEMICAL STORAGE BUILDING B-2N
ALKALINES, BASES INVENTORY LIST — PAGE 2

ROOM II CHEM #	CHEMICAL NAME	CONTAINER SIZE	SEPTEMBER 1985 INVENTORY
2 41	SODA ASH	50 LB BAG	400
2 42	SODIUM CARBONATE	100 LB BAG	100
2 43	SODIUM CHLORIDE	25 LB CONT	175
2 44	SODIUM HYDROXIDE	25 LB BAG	0
2 45	SODIUM HYDROXIDE 25%	55 GL DRUM	55
2 46	SODIUM HYDROXIDE 50%	55 GL DRUM	29
2 47	SODIUM HYDROXIDE 50%	1 GL JUG	11
2 48	SODIUM HYDROXIDE PELLET	5 LB JAR	75
2 49	SODIUM HYPOCHLORITE	5.3 GL CAN	65
2 50	SODIUM METABISULFITE	50 LB BAG	150
2 51	SODIUM NITRITE	5 LB JAR	10
2 52	THIOUREA	5 LB JAR	1
2 53	UDILITE NICKEL CHLORIDE	35 LB BAG	50
2 54	ZEP 990	7 GL PAIL	35

CHEMICAL STORAGE BUILDING B-2N
PHOTOGRAPHY MATERIALS INVENTORY LIST

ROOM III CHEM #	CHEMICAL NAME	CONTAINER SIZE	SEPTEMBER 1985 INVENTORY
3 1	BEACH FIXER REP A	5 GL JUG	45
3 2	BEACH FIXER REP B	3.5 GL JUG	17.5
3 3	DEKTOMATIC DEV & REP	5 GL BOX	20
3 4	EKTAPRINT 2 DEV REP RT	3.5 GL BOX	0
3 5	FIXER 22	5 GL JUG	25
3 6	KODAK DEV. ADDITIVE	4 GL BOX	5
3 7	KODAK DEV. 55	5 GL JUG	16
3 8	KODAK RAPID FIXER A	5 GL JUG	20
3 9	KODAK RAPID FIXER B	.95 GL JUG	22
3 10	KODAK RAPID FIXER HARDENER	2 GL JUG	2
3 11	KODAK PROSTAR FIXER	5 GL JUG	16
3 12	KODAK PROSTAR DEV.	5 GL JUG	0
3 13	KODALITH LIQ DEV A	5 GL JUG	15
3 14	KODALITH LIQ DEV B	5 GL JUG	15
3 15	KODALITH MPT CONTRAST CONC	1 GL JUG	26
3 16	KODALITH MPT DEV	4 GL BOX	40
3 17	KODALITH MPT DEV REP	5 GL BOX	40
3 18	PERMAETCH DEV.	2.5 GL JUG	12.5
3 19	PERMAETCH FIXER	2.5 GL JUG	15
3 20	PMT ACTIVATOR	5 GL JUG	0
3 21	PMT II ACTIVATOR	5 GL JUG	10

CHEMICAL STORAGE BUILDING B-2N
CYANIDES, POISONS INVENTORY LIST

ROOM IV CHEM #	CHEMICAL NAME	CONTAINER SIZE	SEPTEMBER 1985 INVENTORY
5 1	BRY CAD SALTS	50 LB DRUM	100
5 2	COPPER CYANIDE	100 LB DRUM	35
5 3	HEAT BATH ZA	200 LB DRUM	220
5 4	POTASSIUM CYANIDE	200 LB DRUM	255
5 5	SILVER STRIKE	55 GL DRUM	0
5 6	SODIUM CYANIDE	200 LB DRUM	7

CHEMICAL STORAGE BUILDING B-2N
OXIDIZERS INVENTORY LIST

ROOM V CHEM #	CHEMICAL NAME	CONTAINER SIZE	SEPTEMBER 1985 INVENTORY
4 1	ALODINE 600	12 LB CAN	24
4 2	ALODINE 1200S	12 LB CAN	72
4 3	CAD ANODE BARS	7 LB BALL	0
4 4	COPPER BARS	20 LB BAR	80
4 5	CUPRIC SULFATE AR	25 LB BOX	159
4 6	HYDROGEN PEROXIDE 30%	1 GL JUG	4
4 7	NIKLAD -220	100 LB DRUM	75
4 8	NIKLAD -220	3 LB CAN	1
4 9	NIKLAD -222	25 LB CAN	18
4 10	NIKLAD -233P	100 LB DRUM	300
4 11	POTASSIUM DICHROMATE	5 LB JAR	4
4 12	RED FUMING NITRIC	1 PT BOTTLE	2

FLOOR & CURB COATING

Technical Bulletin AE-3927
April 1983

APPROVED FOR CONSTRUCTION
JAN - 8 19[illegible]
PER ______

ADHESIVE ENGINEERING COMPANY

PRODUCT DATA

CONCRESIVE® 1305
A CHEMICAL RESISTANT COATING

DESCRIPTION

Solventless, room-temperature curing, rigid epoxy coating designed for protection of concrete, steel and other materials from most highly corrosive chemicals. Standard color is brick red.

FEATURES

- Outstanding resistance to most organic and inorganic acids, alkalis and other corrosives.
- Resistant to steam cleaning; high temperatures and nuclear radiation.
- Unaffected by the presence of moisture during cure.
- Provides an attractive, high-gloss finish.

USES

- Coating concrete, wood, metals and many rigid plastics where protection from strong chemicals is required.
- In manufacturing facilities using strong chemical corrosives, such as chemical plants, dairies, breweries, canneries, slaughterhouses, plating rooms, nuclear facilities, paper pulp plants and machinery cleaning rooms.
- For tank and pipe linings and as a tie-coat (before cure) for "wet-on-wet" fiberglass linings for concrete tanks.
- As gel coat in conjunction with CONCRESIVE 1310 for laminated tank linings.

PRODUCT INFORMATION[1]

Form: Two component liquid with controlled flow.

Color: Part A – brick red, Part B – clear green, Mixed – brick red. Special dark colors available on request.

[1] Properties listed in this bulletin are typical and descriptive of the product and should not be used for specification purposes.

® Registered Trade Name, Adhesive Engineering Company

CONCRESIVE 1305
Page 2

Mix Ratio, by volume: 2 parts A to 1 part B
by weight: 100 parts A to 42 parts B

Density[1], lb/gal: Part A – 11.0; Part B – 9.3; Mixed 10.5

Viscosity[1], poise: Part A – 129.0; Part B – 2.0; Mixed – 30.0

Standard Packaging: 1 gallon and 7 1/2 gallon units.

Shelf Life: 1 year minimum in sealed containers between 40 and 90°F.

PROPERTIES OF CURED MATERIAL[2]

Property	Test Method	Value
Tensile Strength, psi	ASTM D638	6,300
Tensile Elongation, %	ASTM D638	2
Heat Deflection Temperature, °F	ASTM D648	125
Impact Resistance, in./lb.	Gardner-Direct	18

EFFECT OF TEMPERATURE ON CURE

	Material Temperature 50°F	77°F
Pot Life, min., 1 quart mass	95	40
1 gallon mass	90	35
Thin Film Tack Free Time, hours	13	5.5
Thin Film Hard Dry Time, hours	27	8.5
Full Cure Time, days (for maximum chemical resistance)	14	7

INSTRUCTIONS FOR USE

Surface preparation: Surfaces must be free of dirt or dust, paint, grease, oil, rust or other contaminants. Surface may be dry or damp. Sandblasting is the preferred method of preparation for metals, concrete, stone and rigid plastics. Acid etching or waterblasting should be considered where sandblasting is not possible.

Concrete which upon surface preparation shows the presence of small holes (bug holes) must be treated to eliminate the holes. [illegible] fillers are recommended for this purpose. Use of cementitious block fillers may require further surface preparation to remove laitance.

[1] At 77°F (25°C)
[2] Cured 7 days @ 77°F and tested @ 77°F.

CONCRESIVE 1305
Page 3

Primer recommendations are as follows:

1. Most metals (a) Solventless – one coat of CONCRESIVE 1170; (b) Solvent containing – one coat of standard epoxy/polyamide anti-corrosive metal primer available from most large paint manufacturers; dry according to manufacturer's instructions.
2. Concrete and stone – one coat of CONCRESIVE [illegible] Type II may be used for improved bond, if necessary.

Mixing: Mix only the amount of material that can be used before the expiration of the pot life. Measure the components carefully and add Part B to Part A. Mix thoroughly, using a mechanical mixer, such as an electric drill-powered paint mixer (e.g., a Jiffy mixer, Jiffy Mixer Co., Irvine, CA). Carefully scrape the sides and bottom of the container while mixing. Proper mixing will take from 3-5 minutes, and the mixed material must contain no streaks nor lumps.

Application: Apply by stiff brush, short-nap roller, squeegee or airless spray gun. Spray equipment is commercially available for larger jobs that automatically meters, mixes and applies two component systems at various material temperatures.

To avoid sagging, apply two or more thin, 8-8 mil coats, rather than one thick coat. The second coat may be applied as soon as the first is touch dry. To ensure proper adhesion between coats, the maximum time between coats should be:

72 hrs. @ 60°F
36 hrs. @ 77°F
24 hrs. @ 90°F

When using airless hot-spray equipment, single coat multi-pass (cross-spray) techniques may be employed.

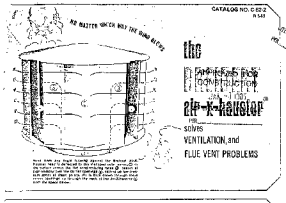
Limitations: CONCRESIVE 1305 is not recommended for application below 50°F air or substrate temperature. Minimum cure temperature is 35°F.

Clean up: Mixed epoxy coating is much easier to clean up before it hardens. Solvents used for this purpose are methyl ethyl ketone (MEK – flammable) or 1,1,1-trichloroethylene or methylene chloride (non-flammable). Two component airless spray equipment usually has a high-flow solvent purging system. Cured epoxy coatings may be removed from tools and equipment by using heavy duty epoxy strippers, such as CONCRESIVE 6003.

Handling and Toxicity: This bulletin does not accompany the product when sold. For specific hazard warnings and first-aid instructions, READ THE CONTAINER WARNING LABELS CAREFULLY.

Mixed components contain liquid epoxy resin and amines. May cause allergic skin and respiratory reaction. Harmful if swallowed. Do not get in eyes, on skin or on clothing. Use only with adequate ventilation. Wash thoroughly after handling.

The use of barrier creams, such as Kerodex No. 71 or Index Labs No. 211, 213 or 214 is recommended. Clean rubber gloves or disposable polyethylene gloves provide the best protection. Should skin contact occur, wash immediately with soap and water or Adhesive Engineering Company's [illegible]CLEANSE® 6001 hand cleaner.



Properly installed it will provide safe, sure ventilation and positively eliminate down draft.

BASEDIRT AIR-X-HAUSTER operates under any wind pressure. Its unique design creates a vacuum in the air stream. Air is sucked into turbine, passes through it, and is discharged into turbine outlet through its vanes. Old style ventilators operate only with horizontal winds and are subject to down draft because of wind deflected by adjacent trees or buildings.

BASEDIRT AIR-X-HAUSTER will absolutely prevent down draft from entering vent systems, if its negative pressure overcomes forces by direct impacting on roof or vents. Certified capacities for sizes 6" to 48".

Accessories for Basedirt turbs include bird screens and dampers to control the amount of ventilation.

The type "C" BASEDIRT gravity ventilator has many applications. It is used in place of a cap on a flue pipe. It is furnished with a metal base which fits the roof line. Its operating wind lifts and tends to the design. Standard sizes, either round or square, are available, as well as special construction forms for direct mounting on roof or vents. Certified capacities for sizes 6" to 48".

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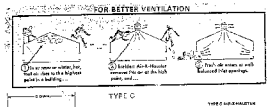
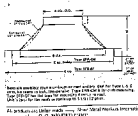
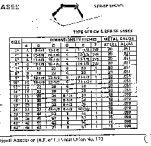
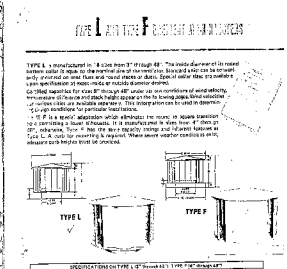
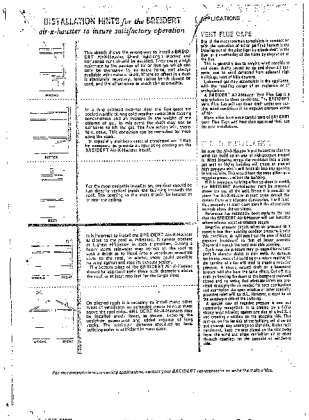


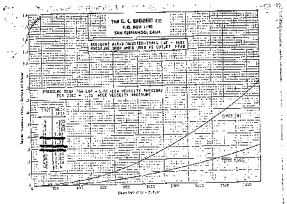
TYPE SFR — ONE-PIECE FORMED BASES

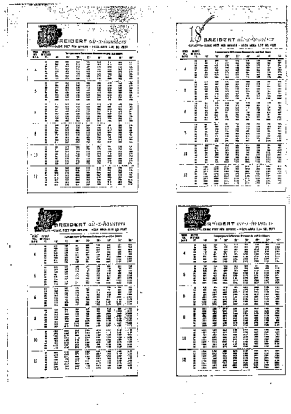


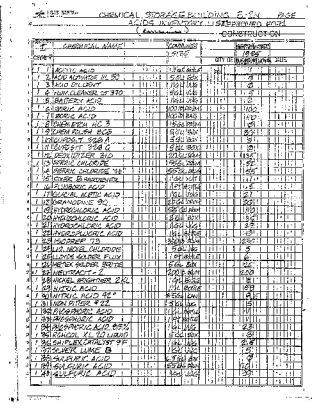


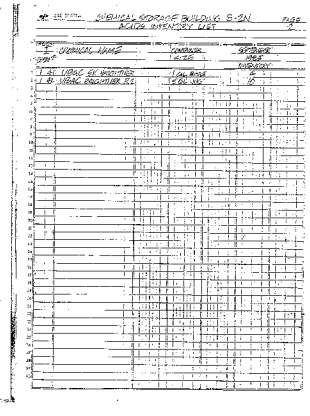












CITY OF MOUNTAIN VIEW

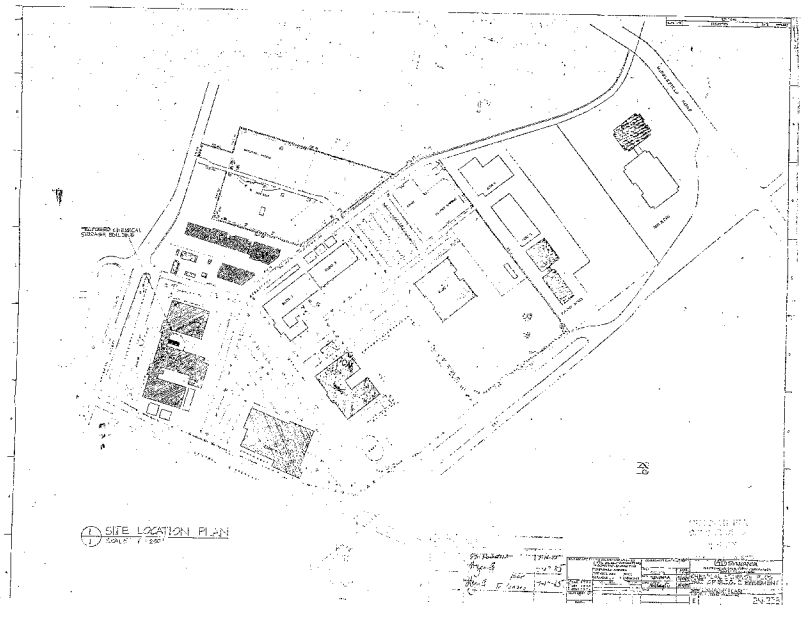
BUILDING INSPECTION DIVISION

APPROVED FOR CONSTRUCTION

JAN 1 8 1988

CITY OF MOUNTAIN VIEW BUILDING INSPECTION DIV.

BY


SITE LOCATION PLAN

L-00 $L_{eff} = 47\frac{1}{2} + 66.4 = 80'$

$M_{max} = 400$

$I_{req} = 2W \cdot 24$

$I_{req} = 705\left(\frac{80^2}{10^2}\right) = 1128$ 2X12 ok

Wind Girts

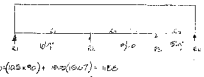
$M_{max} = 11'\text{-}0''$

$L_b = 8(5.5) = 44''$

$M_{max} = 4.4^k$

$f_b = \frac{M(12)}{bd^2} = \frac{4.4(12)}{2(8.25)^2} = .77$

$= 0.5\ 82'$ ok



$w_b = (0.5 \times 90) + 10.5 = 15.6$

$w_L = 10\ psf\ (15.6') = 156$

(145) $R_1 = 8$

$M_1 = 0$

$0 = 2M_1(15.7) + M_2(9) + 1.56\left(\frac{(15.7)^2}{2} + 9^2\right) - 8(9)$

$M_2(9) + 2M_2(11.72) = 0 - 14.85\left(\frac{9^2}{2} + 9^2\right) - 8(9)$

$[4.56M_1 + M_2 = 108.0]\ (-2.56)$

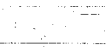
$M_2 = 3.85\ M_2$

$-14.85\ M_2 = -312\ M_2$ $\quad 2.56\ 108.0$ $\quad 276.8$

$-12.33\ M_2 = 0 \quad 2.19\ M_2$

$M_2 = 19.78'$

$M_2 = -6.5^k$



Cut Beams

Cut beams R_{1c}

ΣM_1: $15.6\frac{8^2}{2} + 6.4(4) - 8\left(\frac{8^2}{2}\right) = 0$

$R_{1c} = 6.03$

Cut R_B

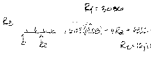
ΣM_1: $8.76\ R_2 - 6.53 + 1.32\left(\frac{8.76^2}{2}\right) = 0$

$R_2 = 5.01^k$

R_2 & R_3

ΣM_2: $2.19\left(\frac{2.19^2}{2}\right) + 1.56 - 5.01(2.19) = 0$

ΣM_3: $1.6\frac{1.6^2}{2} + 1.56 - 5.01(1.6) = 0$ $\quad R_3 = 4.04^k$



$f_b = \frac{4.04(12)}{2(8.25)^2} = 2.4$

$E = 1,700$

$f = .8\ f_b$

$d = 8'$ $\quad R = \frac{1}{2}(2.4)(12)(8.25) = 60.5\ k$

$V = \frac{1.5R}{E} = \frac{1.5(60.5)(12)}{1,700} = .6004$ $\quad V = 2$

$d_{max} = \frac{1.5R}{2(V)(f)(E)} = \frac{1.5(60.5)(12)}{2(2)(2.4)(1,700)} = 1.0\ 8'$

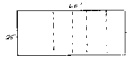
$\therefore 1.0'$ & $\frac{1.0}{2} = .5'$ ok

Bearing on $f_{cm} = 1.5\ 12\ /\ 1.5\ 12 = 1.5^{psi}$ $\quad 3'\text{-}6''$ SC Not Acceptable

Laterals

$R_{max} = 15.5\left(\frac{1.86}{2}\right) = 5.77^k$

$R_{Mass} = 30\left(\frac{0.15}{2}\right)\left(\frac{1.86}{2}\right) = 0.7\ 100\ \#$



N-S direction

$f_{bar} = 2.38\left(\frac{5.5}{2}\right)(60) = 4320$

$f_{Mass} = 1.7\ 100\left(\frac{5.5}{2}\right) = \frac{1.7\ 100}{1.7\ 503}$ $\quad$ 10 mph wind

$f_{Mass} = 8.7\ 100^{\#}\ (1.75\ 503)$

E-W direction

$f_{bar} = 2.9(60) = \frac{4320}{8.64^k}$ $\quad 4.7\ 3\ 2.4\ 60$

$f_{Mass} = 1.7\ 100\ \#$

Chord $= \frac{4.7\ 100\left(\frac{8.64}{2}\right)(60)}{2(8.5)} = 1,100^{\#}$ (East-West)

$\frac{1.7\ 100\left(\frac{8.64}{2}\right)(60)}{2(8.5)} = 7.11^{\#}$ (North-South)

Top East West Girder

ΣM_1: $11(47.7^{\#}) + 15.6\left(\frac{47.7}{2}\right)(2.5) = 3.6\ 6$

R_2: $4.2(11)(22.5)(2.5) + 3(6.5)(2.5)(1.25) = 833.6\ 6\ 7\ 8$

$w_L = 24\ 47.7\ 6$ $\quad d = \frac{3.5\ 6.5}{2.5} = 8.57'$ $\quad$ Dimension $\frac{8.57}{2} = 4.7$ ok

Roof Girder

Pc	width	H	A'	I	Σ M	Cu	Pcw	Z
A	14.38	7'	375	3,991,000	1,000	.06	.4	1,000
B	4.86	11'	406	13,325	1,000	.06	.4	1,000

$\Sigma Z = 2,000$

Wind A

$\Sigma M_{Wind} = .5(14.6)(10)/4.66(2)(2.5) + 2.6(1.75)(7.5) = 4.6$

$\Sigma M_{Wind} = 4.6(10)(1) = 14.38(10)(1)(1.4) = 1,000\ 2.5^{\#}$

ΣM_1: $14.38(1)(7.5) = 14.38^k \quad 2.5\ 1 \quad 101,000$

$4.86(2.5) = 12.15 \quad 7.5\ 2 \quad 27,762$

$12.15(2.5) = 30.38 \quad 7.5\ 2 \quad 27,762$

$\Sigma = 14.38^k \quad 27,762$

$w_L = \frac{(27,762)}{(2.5)} = 11,105^{\#}$

$a = \frac{14.38 - 11.105}{0.85(4.86)} = 4.84$ $\quad P_{max} = \frac{2(27,762)}{5(4.84)} = 2,293^k/(6.10) = 1.6\ 6\ 2.5\ 6$ ok

Soil Pressure

$\Sigma M = 4.6(10)(5.83) - 1.6(1.5)(5.6)(7.33) = 1.6\ 7.5$

ΣM: see above $\quad 1,000\ 2.5$

$(1.6)(7)(1.5) = 1.44 \quad \times 7.5 = 10.78$

$(1.6)(1.5)(5.6)(4.5) = \frac{1.6\ 2.5}{2.5} \quad \times 7.5 = 30.375$

$= 1.6\ 7.5 \quad 1,000\ 2.5$

$a = \frac{1,000\ 2.5 - 1.6\ 7.5}{2.5(4.86)} = 4.15$ $\quad P_{max} = \frac{2}{5}\left(\frac{2.5(1.6^k)}{4.15}\right) = 1.6^k$

$1.6/ft = 1.33 = 1.5^{psi}$ $\quad$ Bearing Ok

Wall B

ΣM: $(1.6 \times 4.5)(2.5) = 6.1^{\#}$

ΣM: $4.5(1.6)(2.5) = 1.7\ 6 \quad 2.5 = 10.5$

$(1.6)(1.5)(2.5) = 1.6\ 2.5 = 2.5$

$\Sigma = 1.7\ 6 \quad 2.5 = 13.0$

$a = \frac{13.0 - 6.1}{0.7(1.6)} = 2.5$ $\quad P_{max} = \frac{2}{5}\left(\frac{1.6^k}{2.5}\right) = 1.5^{psi}$

OVERTURNING about R_2

$\Sigma M = (1.6 \times 4.5)(2.5) = 1.7\ 6\ 2.5$

ΣM: $(1.6)(1.5)(2.5) = 4.5 \quad \times 2.15 = 9.67$

$(1.6)(1.5)(2.5)(2.5) = 1.6\ 2.5 = 2.5 \quad$ O.T. M6

$\Sigma = 9.67$

$a = \frac{9.67}{1.6(2.5)} = 2.5$ $\quad P_{max} = \frac{2}{5}\left(\frac{1.6^k}{2.5}\right) = 1.5^{psi}$

ΣM: $8.0^{\#} \times 9.15 = 73.0$

$1.7^{\#} \times 9.15 = 15.6$

$1.6^{\#} \times 10.33 = 16.6$

$\Sigma = 105.2$

$a = 2.05$ $\quad P_{max} = \frac{2}{5}\left(\frac{105.2}{2.05}\right) = 2.0^{psi}$ $\quad$ Soil Bearing $= 1.5\ 6\ 2.5$ ok

CONHESIVE 1305
Page 4

CHEMICAL RESISTANCE PROPERTIES OF CURED MATERIAL

The following data is based on continuous immersion of the material coated on metal panels at the temperatures and concentrations indicated. This is considered the most serious attack condition; thus, where only fumes, splash or spill are involved, the protection offered by CONHESIVE 1305 will be greatly extended. Please contact Adhesive Engineering's technical service department for advice on chemicals and conditions not listed. This data should be used as a guide and a test panel installed in case of doubt.

Acids (diluted with water, % by weight): Acetic acid - 10% at 77°F and 150°F - excellent; 20% at 77°F - excellent; 100% at 77°F - not resistant.
Citric acid - 10% at 77°F and 140°F - excellent.
Chromic acid - up to 3% at 77°F - attack after 6 months; between 5% and 10% up to 150°F - limited resistance; 20% and 30% - not resistant.
Formic acid - 5% at 77°F - limited resistance.
Hydrochloric (muriatic) acid - up to 10% to 150°F - excellent; up to 15% to 140°F - excellent; 37% (concentrated) - not resistant.
Linseed oil fatty acid at 77°F - excellent.
Nitric acid - 5% at 77°F - surface attack only after 10 months; up to 10% at 77°F - surface attack only after 4 months; 50% at 77°F - not resistant.
Phosphoric acid - up to 30% to 150°F - excellent; 43% at 77°F - blistered after 10 months; 30% at 140°F - limited resistance.
Oleic acid at 77°F - excellent.
Sulfuric acid - up to 60% to 140°F - excellent; up to 10% at 150°F - excellent; 25% to 30% at 150°F - limited resistance; 70% - not resistant.
Alkalis (based diluted with water)
Ammonium hydroxide (ammonia) - up to 28% at 77°F - excellent; 10% at 122°F - limited resistance; 10% at 150°F - not resistant.
Sodium hydroxide (caustic soda) - up to 50% at 77°F - excellent; up to 30% to 150°F - excellent; 50% at 140°F - excellent; after 1 month - probably much longer.
Water
Sea water, tap water, distilled water and deionized water up to 150°F - excellent.
Salt solutions
Sodium chloride (table salt) - up to 20% - excellent.
Sodium sulfate - 30% - excellent.
Bleaches
Sodium sulfite (10%), spent sulfite liquor, zinc hydrosulfite (18), calcium hypochlorite (5%), sodium hypochlorite (Clorox®) - 5% at 77°F - all excellent.
Paper bleaching solution at 77°F (25°C) - not resistant.
Solvents
Ethyl alcohol (in water) - up to 40% to 150°F - excellent; 50% at 77°F - excellent; 95% at 77°F - not resistant.
Normal and secondary butyl, iso-propyl and iso-octyl alcohols at 77°F - limited resistance
Toluene at 77°F - not resistant.
Heptane/toluene (25:75) at 77°F - limited resistance
Heptane/toluene (50:50 and 75:25) at 77°F - excellent
Xylene - limited resistance
Gasoline and kerosene at 77°F - excellent
Carbon tetrachloride at 77°F - excellent

6. Ultimate Tensile Strength at 77 Degrees F

2,200 psi minimum (ASTM Standard D 882, Method "A", test specimen 30 mils thick.)

7. Mandrel Flex Test

A 30 mil thick test specimen shall be held as a free film and bent 180 degrees over a 1/8" diameter mandrel for 2 seconds without breaking at 20 degrees F.

8. Chemical Resistance

Chemical resistance characteristics shall be evaluated on the basis of a 24 hour immersion at 75 degrees F. plus or minus 2 degrees F. and shall be not less than the following. Test specimen shall consist of a 30 mil thick coating (primer and membrane) applied on standard metal or concrete test panels.

Distilled Water	Excellent
Tap Water (ph 7.0)	Excellent
10% Calcium Chloride	Excellent
10% Sodium Chloride	Excellent
10% Sulfuric Acid	Excellent
10% Sodium Hydroxide	Excellent
Saturated Lime Water	Excellent
Gasoline	Excellent

c. Texture Coat - Texture coat for protective finish, shall consist of a polymeric vinyl mineral. Finish color shall be as specified. The shell coat shall have the following physical properties.

1. Static Piercing Load Capacity - 2,500 pounds minimum load using a 25 mm diameter ball. Test specimen shall be a 25 mil coating applied on concrete. Coating shall consist of primer, membrane and shell coat. The coating shall not be pierced by the specified load. (ASTM Standard E 10 Brinell Identation Method.)

2. Percentage Elongation at 77 Degrees F - 10% minimum (ASTM Standard D 882, Method "A", test specimen 25 mils thick.

Descriptive Data, Manufacturer's Application Instructions and Test Data

Before delivery of any waterproofing material to the site, the contractor shall submit for approval, descriptive data, manufacturer's printed instructions for the application of the waterproofing material, and certified copies of test data from an approved independent testing laboratory showing compliance with the specification requirements. Descriptive data, manufacturer's printed instructions and test certificates shall be submitted for approval in accordance with the "Special Conditions", "General Conditions", and "Contract Documents".

Preparation of Surfaces

Surfaces to receive waterproofing shall be clean and free of standing water. All holes, joints and cracks shall be pointed flush with mortar, and high spots shall be cut off or ground smooth. Before waterproofing is applied, the surfaces to be covered shall be carefully swept or blown clean by high pressure air to remove all dust and foreign matter and shall be inspected and approved. Special care shall be taken in preparation and cleaning of corners and edges.

(3)

CONHESIVE 1305
Page 5

Ethyl acetate, methyl iso-butyl ketone (MIBK), acetone, methyl ethyl ketone (MEK), trichloroethylene, nitrobenzene, o-dichlorobenzene, ethyl ether (ether), methylene chloride, chlorinated ... at 77°F - not resistant.
Attack by these solvents is not strictly chemical, but a softening or swelling action. If the coating does not receive mechanical damage while the solvent evaporates, most of the original integrity is regained.
Miscellaneous materials
Sour crude oil, fuel oil, mineral oil, edible oil, lard, cotton-seed oil, dioctyl phthalate, dibutyl phthalate, tricresyl phosphate, pine oil, ethylene glycol at 77°F - excellent
Mineral oil at 140°F - excellent
Hydrogen peroxide - 20% at 77°F - excellent
Formaldehyde - 37% - excellent
Styrene at 77°F - not resistant
Epichlorohydrin at 77°F - not resistant
Phenol (in water) - 7% and 95% - not resistant
Sodium monochloroacetate (in water) - 45% at 77°F - limited resistance
Detergent solution - 5% at 77°F - excellent.

Neither seller nor manufacturer has any knowledge or control concerning the purchaser's use of the product. No express warranty is made by seller or manufacturer with respect to the results of any use of the product. NO IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO AN IMPLIED WARRANTY OF MERCHANTABILITY, OR AN IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, ARE MADE WITH RESPECT TO THIS PRODUCT. Neither seller nor manufacturer assumes any liability for personal injury, loss or damage resulting from the use of this product. In the event that the product shall prove defective, buyer's exclusive remedy shall be as follows: Seller or manufacturer shall, upon written request of buyer, replace any quantity of the product which is proven to be defective, or shall, at its option, refund the purchase price for the product upon return of the product.

CHEMICAL STORAGE BUILDING
CONTAINMENT CALCULATIONS

ACID STORAGE CONTAINMENT = 10'-5"W × 24'-5"L × 0'-8"H - RAMP VOLUME
= 240 FT³ - 1.5 FT³ = 238.5 FT³

APPROVED FOR CONSTRUCTION
JAN 1986
CITY OF MOUNTAIN VIEW, CALIF.

BASE STORAGE CONTAINMENT = 10'-0"W × 24'-5"L × 0'-6"H - RAMP VOLUME
= 120 FT³ - 1.5 FT³ = 118.5 FT³

ALKALINES STORAGE CONTAINMENT = 10'-4"W × 24'-5"L × 0'-6"H - RAMP VOLUME
= 130 FT³ - 1.5 FT³ = 128.5 FT³

APPROVED FOR

OXIDIZER STORAGE CONTAINMENT = 10'-3"W × 9'-3"L × 0'-6"H
= 41 FT³

SOLVENT STORAGE CONTAINMENT = 10'-2"W × 15'-3"L × 0'-5"H - RAMP VOLUME
= 77.5 FT³ - 1.5 FT³ = 76 FT³

[signature]
1-5-86

WALL & JOINT COATING & ADHESIVE

CONSTRUCTION
JAN 1986
CITY OF MOUNTAIN VIEW, CALIF.
PER

REVOLAN SYSTEMS
P.O. BOX ..., SAN JOSE, CALIFORNIA ...
TELEPHONE (408) ...

SECTION
VINYL ELASTIC WATERPROOFING MEMBRANE ON CONCRETE AND MASONRY

1. Scope

This section covers Vinyl Waterproofing on concrete (and masonry), complete.

2. Application Publications

The following publications of the issues listed below, but referred to thereafter by basic designation only, form a part of the specification to the extent indicated by the references thereto:

a. American Society for Testing and Materials Standards

D 570-59aT	Water Absorption of Plastics
D 882-61T	Tensile Properties of Thin Plastic Sheeting
D 1044-56	Resistance of Transparent Plastics to Surface Abrasion
D 1191-57T	Concrete Joint Sealers
E 10-61	Brinell Hardness of Metallic Materials in Sheet Form
E 96-53T	Water Vapor Transmission of Materials in Sheet Form

b. Federal Standard

No. 141 & Change Notices 1 & 2	Paint, Varnish, Lacquer and Related Materials; Methods of Inspection, Sampling and Testing

3. General

Waterproofing shall be applied where shown. Waterproofing shall not be applied when the ambient temperature is below 40 degrees F. or above 100 degrees F. Sealing of items penetrating the waterproofed areas shall be as specified herein or as recommended by the manufacturer of the waterproofing material and approved by the contracting officer, engineer, architect or owner. Items that penetrate the waterproofing shall be sealed by additional thicknesses of waterproofing applied around the point of penetration. Waterproofing, having a minimum thickness of 25 mils, shall extend from the point of penetration out onto the penetrating item for a minimum distance of 6 inches.

(1)

CALCULATION
FOR
CHEMICAL STORAGE
BUILDING
AT
G.T.E. SYSTEMS, MOUNTAIN VIEW

REGISTERED PROFESSIONAL ENGINEER
LLOYD MCVICKER
No. 1440
STRUCTURAL
STATE OF CALIFORNIA

APPROVED FOR CONSTRUCTION
JAN 1986
CITY OF MOUNTAIN VIEW, CALIF.
PER

Lloyd McVicker & Associates, Inc.
Structural Engineers
140 Hawthorne Street
Palo Alto, California ...

4. Materials

Materials shall be in the manufacturer's sealed containers at the time of use showing the designated name, formula, or specification number, batch number, color, date of manufacture, manufacturer's directions and name of manufacturer. Materials shall conform to the requirements hereinafter specified. In addition to the requirements specified in paragraph "Descriptive data, manufacturer's application instructions and test data", a notarized statement of analysis and test shall be furnished by the manufacturer for each batch. The statements shall be on a Manufacturer's Statement of Analysis and Tests form as attached to the end of this section. The vinyl waterproofing shall be a three coat system consisting of a primer, a membrane coat and a protective finish. Mixtures shall be factory formulated to a spray consistency. Field thinning of the mixtures will not be permitted.

a. Vinyl Urethane Primer Coating - Primer coating shall be a coating formulated to produce an adhesive bond to concrete, masonry and insulating materials and to provide a foundation for application of the vinyl membrane coat. The primer coating shall be supplied as a two-package system consisting of a clear vinyl solution and a urethane type hardener.

b. Membrane Coat - Membrane coat shall be a beige colored vinyl compound suitable for spray gun application. The finished membrane coat shall have the following performance requirements:

1. Water Vapor Transmission

Grams H_2O/100 square inches/24 hours; .04 gram maximum (ASTM Designation E 96, Procedure "B", test specimen 30 mils thick.)

2. Water Absorption

Percentage increase in weight 0.2 per cent maximum (ASTM Standard D 570, Procedure "A", test specimen 3 inches by 1 inch by 30 mils.)

3. Resistance to Abrasion

ASTM Standard D 1044, test specimen 30 mils thick.

Instrument	Taber
Temperature During test	73 Degrees F.
Load on Wheels	1,000 Grams
Wheels	CS-17
Number of Cycles	1,000
Depth of Wear	Less than 0.004 Inch

4. Adhesion to Concrete

150 psi minimum (Membrane applied over primer; ASTM Standard D 1191, modified for test specimen 30 mils thick.)

5. Percentage Elongation at 77 Degrees F

25% minimum (ASTM Standard D 882, Method "A", test specimen 30 mils thick.)

(2)

CHEMICAL STORAGE (GTE)

ROOF FRAMING

LOADING

Roofing	6
1/2" Ply	1½
Framing	3½
Insul	1½
Ceil.	2
Misc.	1
	15½

LL: 20 psf

L=20' trib width = 16"

w_D = 20.6 w_L = 26.6 w_T = 47.2 #/'

M_{max} = 2360'# $S_{req} = \frac{2360(12)}{1500(1.25)}$ = 15.1

$A_{req} = \frac{47.2(10)(1.5)}{95(1.25)}$ = 5.9

$I = \frac{5(.047)(20)^4(12)(144)(1.60)}{384(1800)(20)(12)}$ = 70.5

use 2x12

L=10' trib width = 16"

M = 590# S_{req} = 3.77 A_{req} = 2.98 I = 5.8

use 2x8

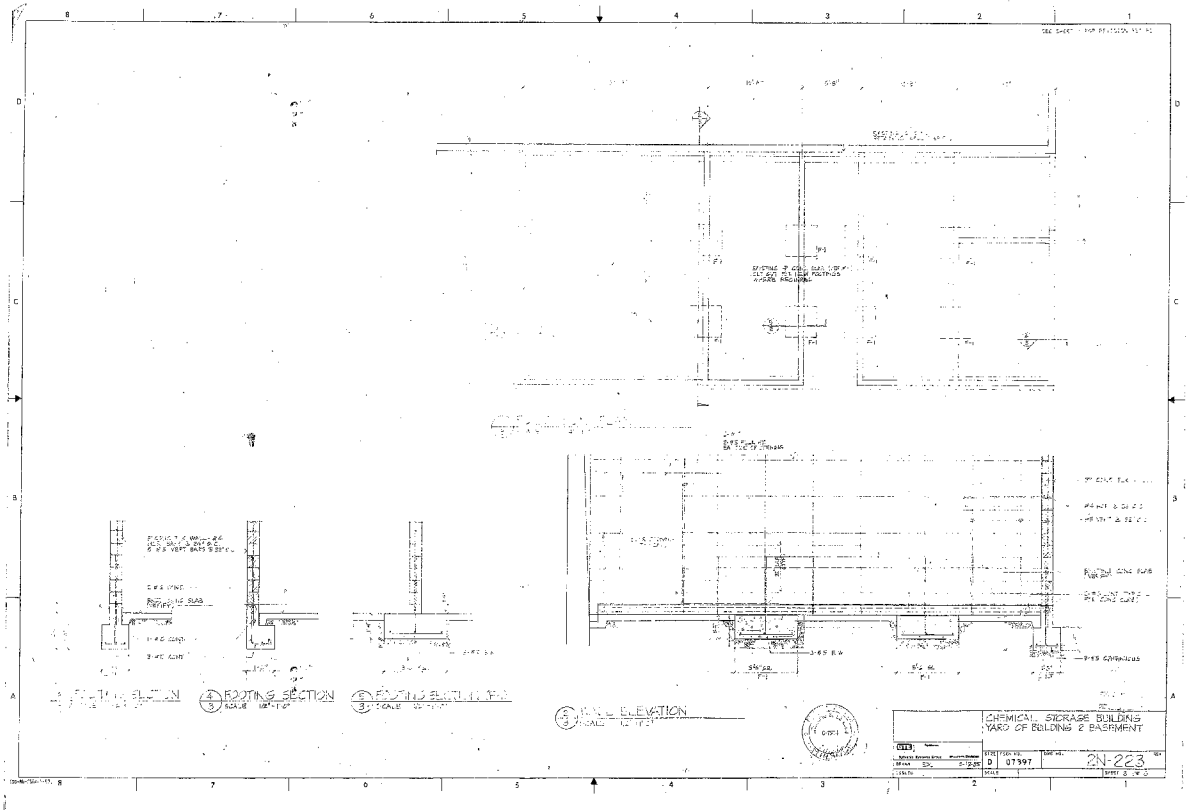
R1 — 5.67 ℄ 5.67 w_T = 47.2 w_D = 20.6

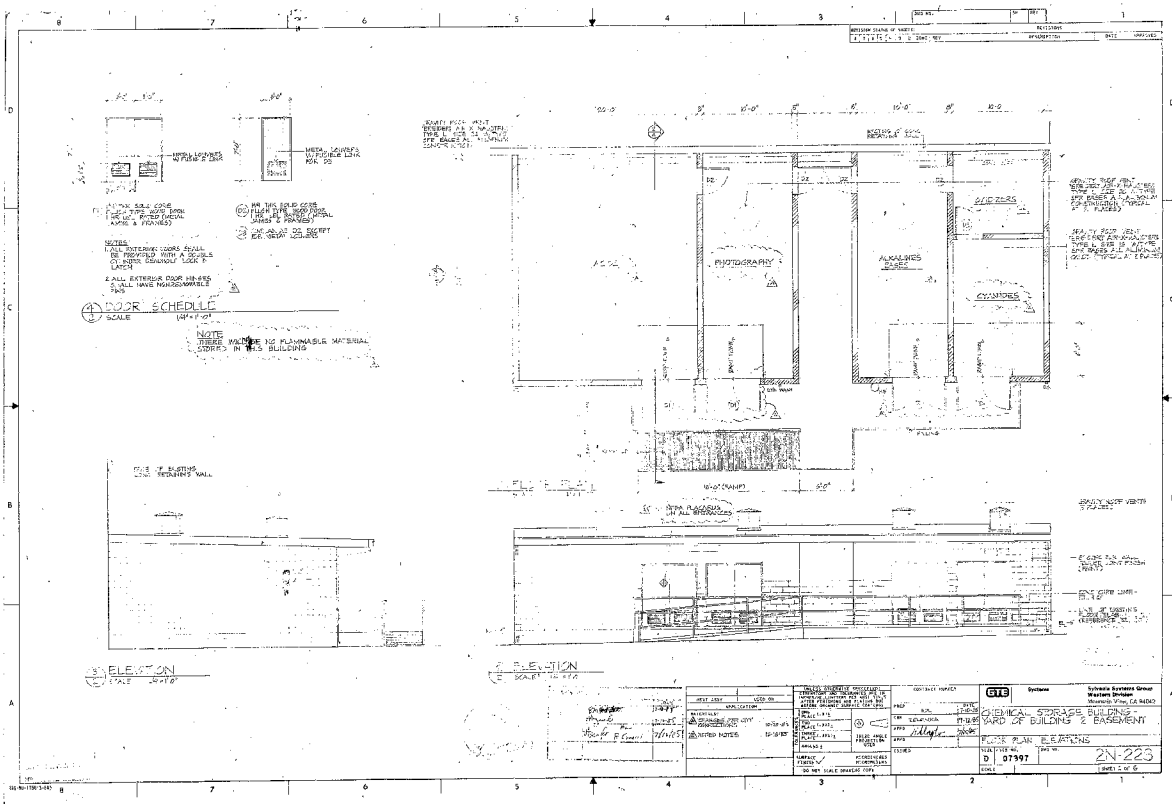
2x8 (cant + M.S.) M_{max} = 178# ... ok 2x8 ok

$\Delta_{cant} = \frac{.047(3.67)(4(5.67)^3)(5.67) + 3(3.67)^3(12)(144)}{24(1800)(47.6)}$ = .066" ok

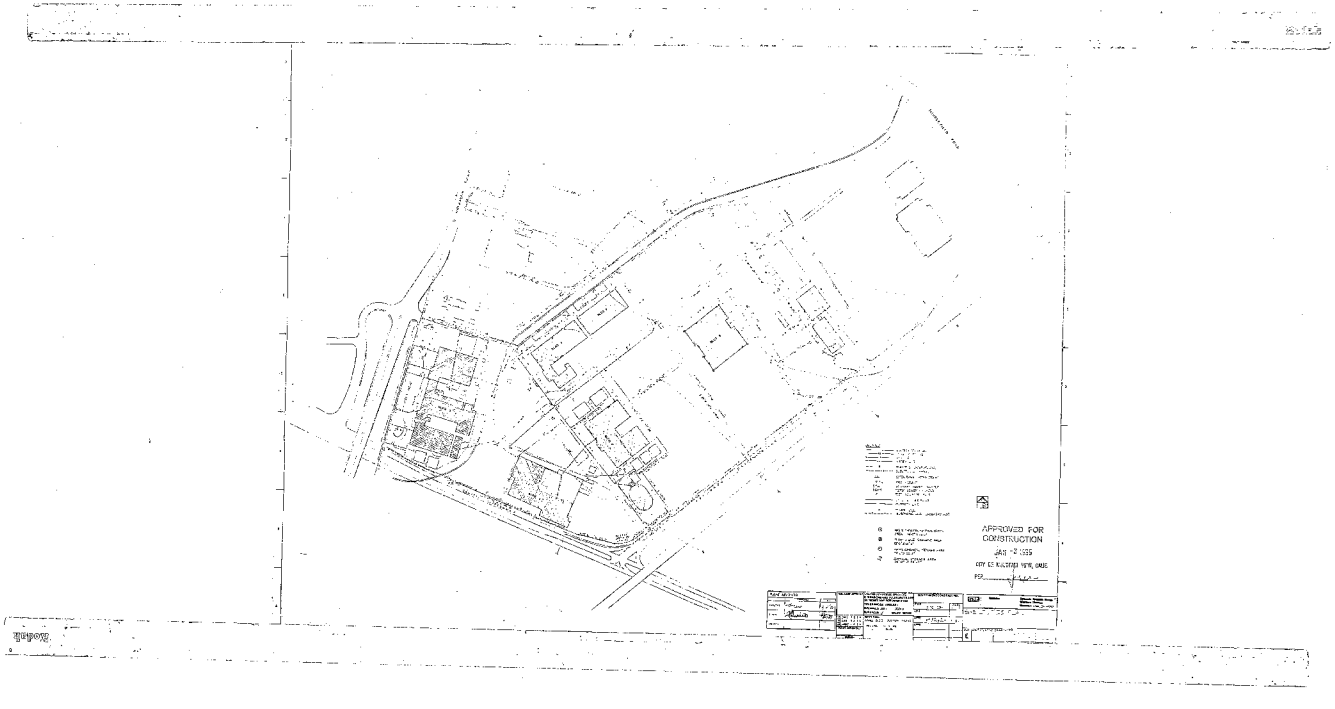
R2 max = 362# (2.2 psf)

R1 min = 77.15# (38.1%) R1 max = 384 - 31.6 = 26.8#


FOOTING SECTION
FOOTING SECTION
FOOTING ELEVATION
BASE ELEVATION
CHEMICAL STORAGE BUILDING
YARD OF BUILDING 2 BASEMENT
D
07997
2N-223



DOOR SCHEDULE
SCALE
NOTE
THERE WILL BE NO FLAMMABLE MATERIAL STORED IN THIS BUILDING
PHOTOGRAPHY
ALKALINES BASES
CYANIDES
ELEVATION
ELEVATION
CHEMICAL STORAGE BUILDING - YARD OF BUILDING 2 BASEMENT
FLOOR PLAN ELEVATIONS
D 07397
2N-223
SHEET 2 OF 6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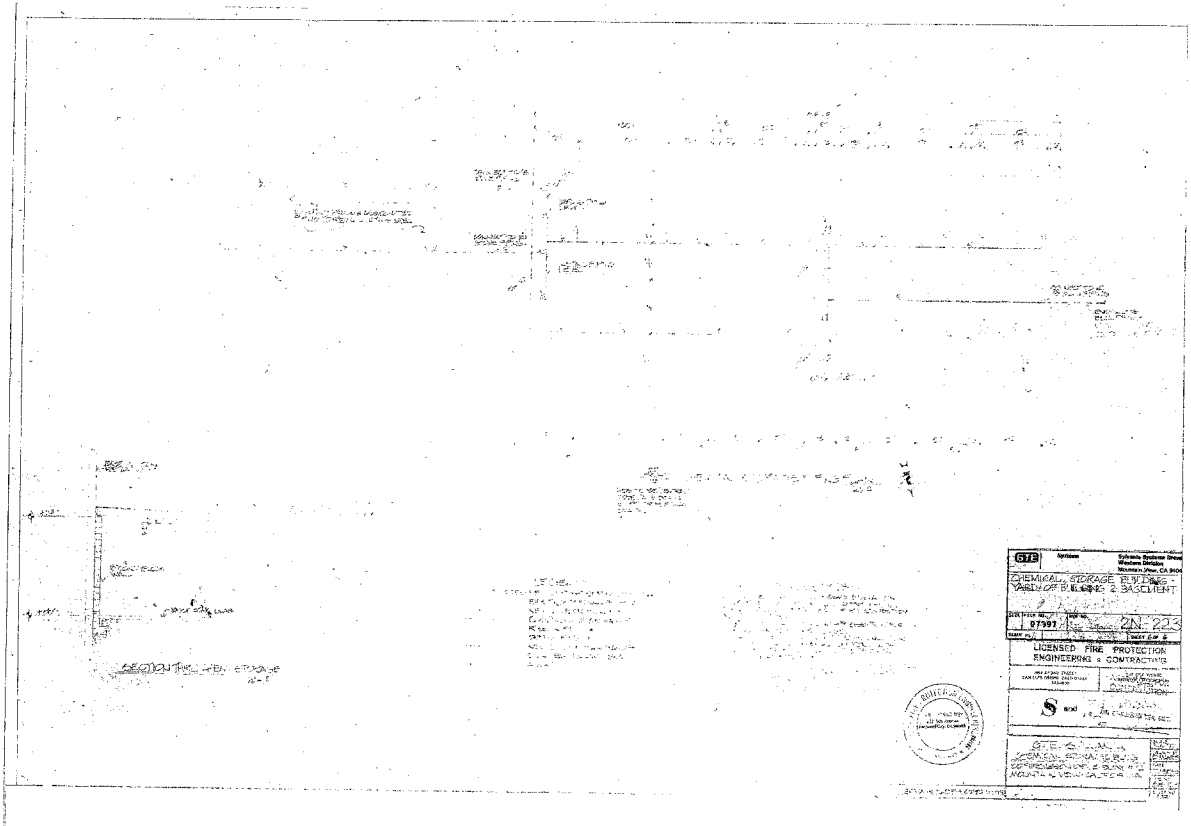
CONSTRUCTION



SECTION THRU CHEM STORAGE
GTE
Systems
Sylvania Systems Group
Western Division
Mountain View, CA 94040
CHEMICAL STORAGE BUILDING - YARD OF BUILDING 2 BASEMENT
07997
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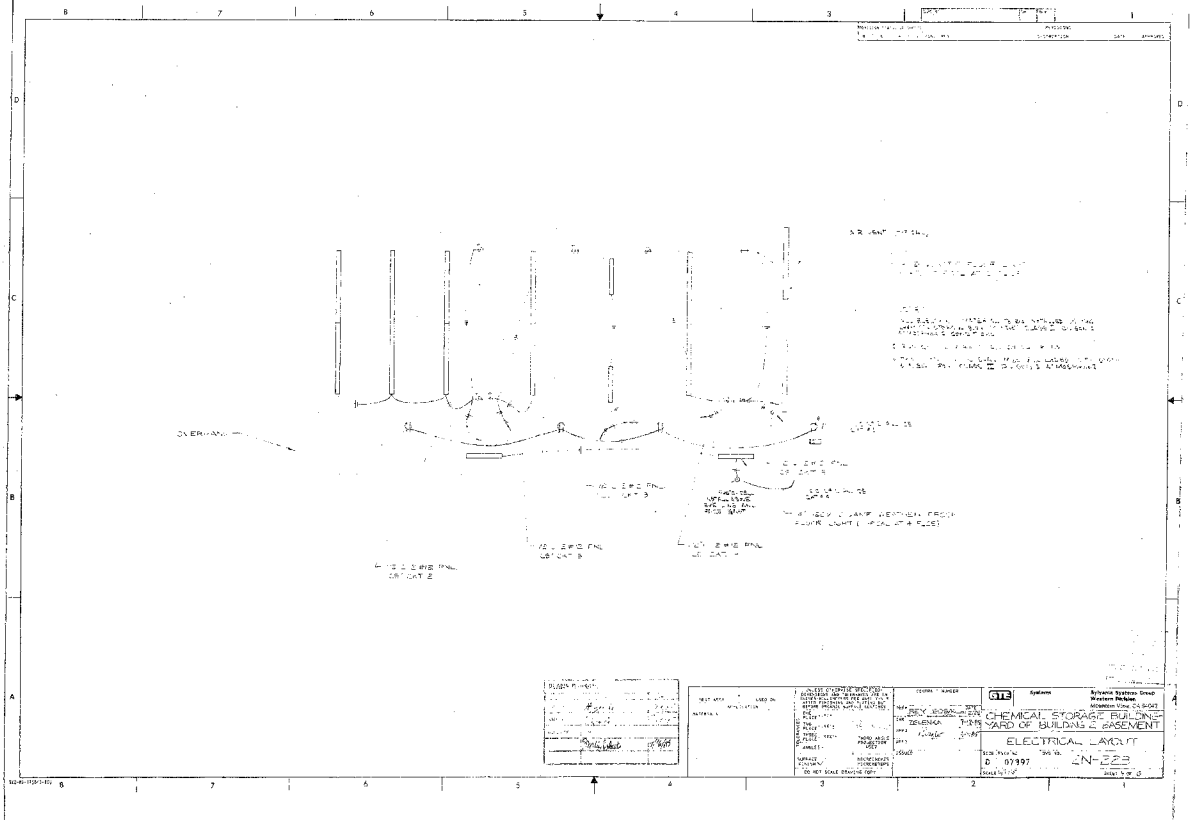
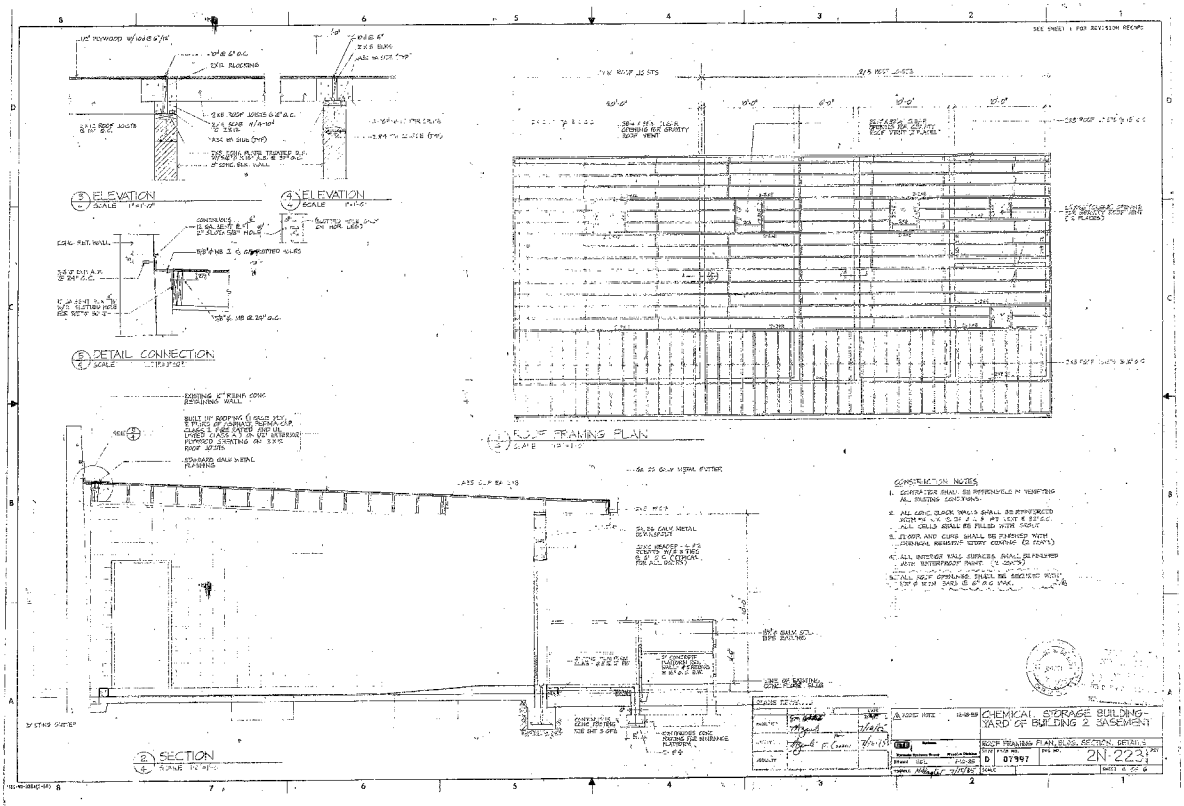
LICENSED FIRE PROTECTION ENGINEERING & CONTRACTING
S



OVERHANG
CHEMICAL STORAGE BUILDING
YARD OF BUILDING 2 BASEMENT
ELECTRICAL LAYOUT
D 07997
2N-223


SEE SHEET 1 FOR REVISION RECORD
3 ELEVATION
SCALE 1"=1'-0"
4 ELEVATION
SCALE 1"=1'-0"
5 DETAIL CONNECTION
SCALE 1"=1'-0"
1 ROOF FRAMING PLAN
SCALE 1"=1'-0"
2 SECTION
SCALE 1"=1'-0"
CONSTRUCTION NOTES
1. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS.
2. ALL CONC. BLOCK WALLS SHALL BE REINFORCED
3. FLOOR AND CURB SHALL BE FINISHED WITH
4. ALL BUTTER WALL SURFACES SHALL BE FINISHED
5. ALL ROOF OPENINGS SHALL BE SECURED WITH
CHEMICAL STORAGE BUILDING-
YARD OF BUILDING 2 SASEMENT
ROOF FRAMING PLAN, BLDG. SECTION, DETAILS
D 07997
2N-223

Chromium, Hexavalent	1.0 mg/liter
Chromium Total	2.0 mg/liter
Cobalt	2.0 mg/liter
Copper	2.0 mg/liter
Cyanide	1.0 mg/liter
Cyanides	0.4 mg/liter
Formaldehyde	1.0 mg/liter
Lead	1.5 mg/liter
Manganese	0.05 mg/liter
Mercury	1.0 mg/liter
Nickel	1.0 mg/liter
Phenols	2.0 mg/liter
Selenium	5.0 mg/liter
Silver	5.0 mg/liter
Zinc	5.0 mg/liter

(2) Fluoride. The maximum concentration allowable of fluoride for discharge into the sewer system shall be 5.0 mg/liter.

(c) Unpolluted water. Unpolluted water, including cooling water or process water, shall not be permitted to be discharged through direct or indirect connection to a city sewer unless a permit is issued by the director of maintenance. The director of maintenance may approve the discharge of such water only if a reasonable alternative method of such wastewater disposal is unavailable and if a permit is granted for the discharge of such wastewater into a city sewer, the user shall pay the applicable charges and fees and shall meet such other conditions as required by the city."

Section 10. Article III, Division 2, Section 35.33.11 of the Mountain View City Code shall be amended to read as follows:

"SEC. 35.33.11. Discharger self-monitoring.

The director of maintenance may require the discharger to conduct a reasonable sampling and analysis program of the discharger's industrial waste at a frequency and upon such terms as the director of maintenance is reasonable compliance. The director of maintenance may require the industrial discharger to have samples analyzed, may require the industrial discharger to have samples analyzed by a laboratory approved by the State at discharger's expense, by of California Department of Health for such analyses. If compliance is demonstrated, samples shall not be required more frequently than quarterly."

Section 11. Article III, Division 2, Section 35.33.19 of the Mountain View City Code shall be amended to read as follows:

results in private nuisance or obstruction; results in damage to public facilities; or a violation that results in civil penalties."

Section 12. Article III, Division 2, Section 35.33 of the Mountain View City Code shall be amended to read as follows:

"SEC. 35.33. Schedule of service charges within the city.

Every person whose premises in the city are served by a connection with the sewer system of the city, whether sanitary sewage or industrial waste, or either or both, are disposed of by the city, through the facilities of the National Water Quality Control Plant, shall pay the following sewer service charges:

(a) Single-family residences: Five dollars ($5.00) per month for each unit.

(b) Duplexes and multiple dwellings: Five dollars ($5.00) per month for each unit.

(c) Motels and trailer courts: Five dollars ($5.00) per month for each unit.

(d) Industrial, commercial, and other unclassified normal conditions. At a monthly rate of sixty-five (65) cents for each one hundred (100) cubic feet of waste water discharged into the sewer system, or fraction thereof, with a minimum charge of five dollars ($5.00) per month.

(e) Commercial, at a monthly rate of seventy-five (75) cents for each one hundred (100) cubic feet of waste water discharged into the sewer system, or fraction thereof, with a minimum charge of five dollars ($5.00) per month.

(f) Industrial, commercial and unclassified, unusual conditions. In accordance with the following terms and conditions, in accordance with approval of the city manager, the director of maintenance shall have a priority by him that the program is questionable and is excessive burden upon the sewer system and the determining appropriate rates to be charged to dischargers of industrial, commercial, and unclassified, unusual conditions. The director of maintenance shall be guided by the cost of waste water disposal based on volume and on treatment of chemical oxygen demand, suspended solids, and ammonia. Said costs shall include treatment plant costs, collection system costs, debt service, and industrial cost recovery."

Section 13. Article III, Division 3, Section 35.33.1 of the Mountain View City Code shall be amended to read as follows:

The foregoing ordinance was regularly introduced at the Adjourned Regular Meeting of the City Council of the City of Mountain View, duly held on the 7th day of December, 1982, and thereafter adopted at a Regular Meeting of said Council duly held on the 14th day of December, 1982, by the following roll call vote:

AYES: Council members Crothers, Englishman, Mathews, Packard, Perry, Dutch, and Mayor Figueroa

NOES: None

ABSENT: None

NOT VOTING: None

ATTEST:

APPROVED:

ROBERTA COSTA, ACTING CITY CLERK

MICHAEL FIGUEROA, MAYOR

"DRAFT#2
12-7"

All requested information, and the director of maintenance determines that there are adequate devices, equipment, chemicals and other facilities to convey, treat and dispose of the industrial wastes.

Section 5. Article II, Division 3, Section 35.32.3 of the Mountain View City Code shall be amended to read as follows:

"SEC. 35.32.3. Suspension or Revocation of Industrial Waste Discharge Permit.

(a) Any permit for industrial waste discharge may be revoked, or suspended by the director of maintenance for a period not to exceed forty-five (45) days, in addition to other remedies provided by law, when such action is necessary to stop a discharge that presents a hazard to the public health, safety, welfare, natural environment, sewer system or that violates this chapter.

(b) Any discharger notified of the city's intent to revoke or suspend the discharger's permit shall immediately cease and desist the discharge of all industrial wastes or such portion of said wastes as will eliminate the unsafe discharge of industrial wastes into the sewer system pending any hearing that the discharger may request as set forth in Sec. 35.32.4 of this Code.

(c) The director of maintenance shall reinstate or reinstate any industrial wastes permit upon proof of satisfactory compliance with all discharge requirements."

Section 6. Article III, Division 3, Section 35.32.4 of the Mountain View City Code shall be amended to read as follows:

"SEC. 35.32.4. Permit Denial, Revocation or Suspension Hearing.

(a) Every industrial wastes discharger shall have, upon request, an informal hearing before the city engineer, or his designee, before the industrial wastes permit application is denied, or the permit is revoked or suspended.

(b) The director of maintenance shall give the industrial wastes discharger applicant or permit holder ten (10) days written notice of intent to deny the application, or to revoke or suspend the discharger's permit. The notice shall set forth specifically the grounds for the director of maintenance's decision to deny, revoke, or suspend and shall inform applicant or permit holder that it shall have ten (10) days the applicant or permit holder that it shall have ten (10) days the receipt of notice of the action to file a written request from the date of receipt of the notice to file a written request

Department of the City of Palo Alto for the specific waste. The City of Palo Alto shall receive payment for treatment and disposal costs or may refuse permission to discharge certain prohibited wastes.

Section 4. Article III, Division 3, Section 35.32.7 of the Mountain View City Code shall be amended to read as follows:

"SEC. 35.32.7. Confidentiality.

(a) Any information submitted to the director of maintenance pursuant to this ordinance may be claimed as confidential by the submitter. Any such claim must be asserted at the time of submission in the manner prescribed on the application form or, in the case of other submissions, by stamping the words "Confidential Business Information" on each page containing such information. If no claim is asserted prior to the initiation of this section, the submission may be withdrawn and replaced by a similar submission stamped "Confidential Business Information" or no such claim is made at the time of submission, or within ninety (90) days after this section becomes effective, the information may be made available to the public without further notice.

(b) Information and data provided to the director of maintenance pursuant to this section which is obtained through sampling of industrial waste discharged into the city's sewer system shall be available to the public without restriction.

(c) All other information which is submitted to the director of maintenance and which is not claimed as confidential, as described in (a) above, shall be available to the public.

(d) A discharger may be prohibited from discharging a substance unless its composition is made known to the director of maintenance."

Section 5. Article III, Division 3, Section 35.32.8 of the Mountain View City Code shall be amended to read as follows:

"SEC. 35.32.8. Accidental Discharges.

(a) Each discharger shall provide adequate protection to prevent accidental discharge of prohibited materials or other wastes regulated by this chapter. Where directed by the director of maintenance, the discharger shall install retention basins, dikes, storage tanks or other facilities designed to eliminate, neutralize, offset or otherwise negate the effects of prohibited materials or wastes that may be discharged in violation of this chapter.

(b) Explosives. No solids, liquids, or gases which by themselves or by interaction with other substances may create fire or explosion hazards in the sewer system shall be discharged. Any explosive substances shall be collected. Flammable substances including, but not limited to, acetone, alcohols, benzene, gasoline, xylene, hexane and naphtha, shall not be discharged into the sewer system. Where flammable substances are used in processes, separate collection and disposal outside the sewer system shall be provided.

(c) Grease and oil. Grease and/or oil shall not be discharged into the sewer system if the average concentration of floatable oil exceeds 100 mg/liter or that which is subject to gravity separation at a temperature of 32°C. and pH of 4.5 because 20 mg/liter nor shall the total oil and/or grease concentration exceed 300 mg/liter.

(d) Overtemperature. The pH of wastes discharged to the sewer system shall at all times be within the range of 6.5 to 10.5.

(e) Toxics or noxious substances. No industrial waste shall contain toxic or poisonous substances, combustible with other wastes, may create a public nuisance, hazard or cause human entry into the sewers amounting hazardous. Pesticides and dissolved surfaces shall not be discharged in concentrations exceeding 0.1 mg/liter.

(f) Organic solvents. Organic solvents shall not be discharged into the sewer system.

(g) Radioactivity. The discharge of radioactive wastes into the sewer system shall conform to the requirements of California Radiation Control Regulations, Title 17, California Administrative Code, Chapter 3, Subchapter 4 or as subsequently amended.

(h) Solids.

(i) Inert solids. The discharge of inert solids including but not limited to sand, glass, metal chips, bone, plastics, etc., into the sewer is prohibited. Settling chambers or treatment works shall be installed where necessary to prevent the entry of inert solids into the sewer system.

(j) Solid particles. Industrial wastes shall not contain particles larger which will not pass through a 1/2 inch screen, provided that this requirement shall not apply to sanitary sewage from industrial establishments.

CITY OF MOUNTAIN VIEW

DEPARTMENT OF MAINTENANCE

PLAN CHECK/PERMIT REVIEW FORM

PROJECT: Waste Treatment - 628 Sylvania

PROJECT OWNER: Building Inspection

REVIEWER: Heinrichson - Inconsistent

☐ Project has been reviewed and we concur with the design and/or scope as it relates to our department.

☒ Project has been reviewed and we wish to make the following recommendations and/or changes.

RE

Proposed Revision: waste storage model ordinance calls for secondary containment. This project seems to comply with the intent of that ordinance. Detail 1/334-7 shows a 1 inch PVC sch 40 pipe leading to a tank. This appears to be a conduit through which leakage can be detected in the primary containment. No question is now will indications be detected. Through visual observation, electric probe or other means?

REPLY: A dipstick will be provided to allow the operator of the treatment system to detect any leakage from the primary container.

A visual method of observation is unlikely.

REVIEWED BY _____ DATE 8/16/85 REVIEWED BY _____ DATE _____

WD-28

ORDINANCE NO. 27.87

AN ORDINANCE AMENDING SECTIONS OF ARTICLE III OF THE MOUNTAIN VIEW CITY CODE, ALL RELATING TO SEWER SERVICE AND SEWAGE DISPOSAL

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF MOUNTAIN VIEW AS FOLLOWS:

Section 1. Article III, Division 2, Section 36.29 of the Mountain View City Code shall be amended to read as follows:

"SEC. 36.29. Definitions.

For the purpose of this article, the following words and phrases shall be as defined herein. Words, terms and phrases used in this chapter not otherwise defined shall be as defined in the latest edition of Standard Methods for the Examination of Water and Wastewater, published by the American Public Health Association:

Average concentration of a substance shall mean the total daily pounds weight of the substance divided by the total daily wastewater volume at the point of discharge.

Building drain shall mean that part of the lowest horizontal piping of a drainage system which receives sewage from soil, waste, and other drainage pipes inside the walls of the building and conveys it to the building sewer, beginning two feet outside the inner face of the building wall.

Building sewer shall mean the extension from the building drain to the public sewer or other place of disposal.

Cesspool shall mean a lined or partially lined underground pit into which raw sanitary sewage is discharged and which is designed to retain solids but permits liquids to seep through the bottom and sides.

Director of maintenance shall mean the director of the maintenance department of the City of Mountain View or his authorized authority.

Director of public works shall mean the director of public works of the City of Mountain View or his authorized authority.

Discharger shall mean any person who discharges, causes, or permits the discharge of industrial waste into a city sewer.

Sewage shall mean "wastewater" wastes, or sanitary sewage, or any combination thereof.

Sewage treatment plant shall mean any arrangement of devices and equipment used for treating sanitary sewage and industrial wastes.

Sewer shall mean a pipe or conduit for carrying sewage.

Sewer system shall mean all sewers, pumping stations, treatment plants and other facilities for carrying, collecting, treating and disposing of sanitary sewage and industrial wastes from the City of Mountain View.

Shall, may. Shall is mandatory. May is permissive.

Storm sewer or storm drain shall mean a sewer which carries storm and surface waters and drainage, but excludes sanitary sewage and prohibited industrial wastes.

Storm water shall mean the flow in sewers resulting from rain water.

Unpolluted water shall mean water to which no constituent has been added, either intentionally or accidentally, that would render such water unacceptable for disposal to storm or natural drainage or directly to surface waters.

Watercourse shall mean a channel in which a flow of water occurs, either continuously or intermittently."

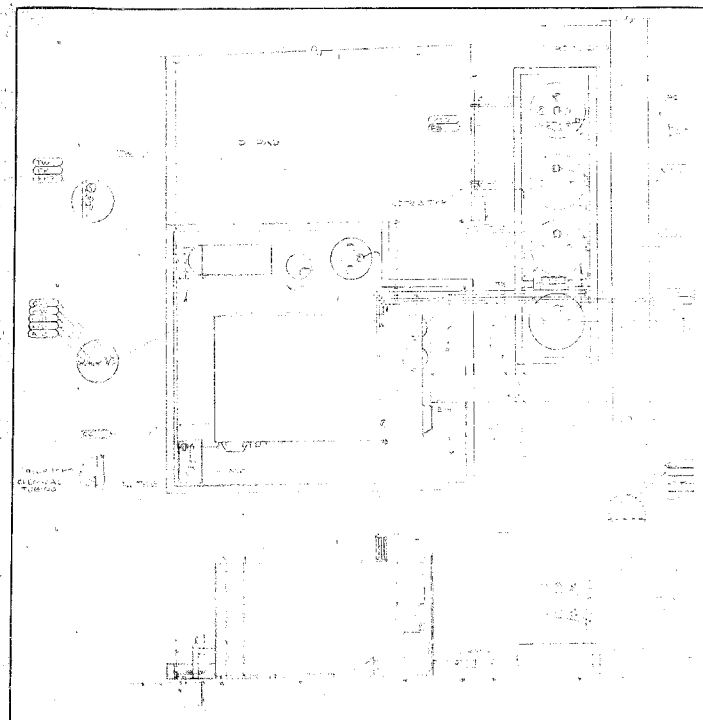
Section 2. Article III, Division 2, Section 36.32 of the Mountain View City Code shall be amended to read as follows:

"SEC. 36.32. Responsibility of the director of maintenance and the director of public works. The director of the industrial sewer enforcement of the provisions of this article, for conducting an industrial waste control program, for promulgating such rules, rules and regulations as are necessary to accomplish the purposes of this article in accordance with the requirements that are or may be promulgated by the Environmental Protection Agency, the State Water Resources Control Board, the Regional Water Quality Control Board for the San Francisco Bay Region or other duly authorized boards or agencies."

Section 3. Article III, Division 2, Section 36.32.1 of the Mountain View City Code shall be amended to read as follows:

"SEC. 36.32.1. Industrial wastes discharge permits.

(a) It shall be unlawful for any person or organization to discharge or cause to be discharged any industrial



NOTES:

1.) All PV valves to be marked with an inch thick [illegible] using long [illegible] ribbons.

2.) Tubing [illegible] to run continuous from pump to gauge or transmitter.

3.) Metals wetted to exceeding 316 [illegible].

4.) Waste pump controls were long opening to drain.

5.) All [illegible] using carrying vacuum chemicals feeding the chemical bowering chemicals not to be fed in the cap of the TOP of the vacuum pipe.

6.) All pressure piping is SCH 80 1".

7.) All conduit is PVC [illegible].

8.) Allow enough flex conduit to pull the level sensor out.

			LEGEND		
	SIZE			TAG	
[illegible]	1"	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1"	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1"	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1"	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1"	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1"	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	3/4"	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	3/8"	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	3/8"	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	3/8"	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	3/8"	[illegible]	[illegible]	[illegible]	[illegible]
TW	3"	TREATED WATER		TTWO	WRF STN
RW	3/4"	FILTER PRESS IN		TTWO	FILTER DRN

APPROVED FOR
CONSTRUCTION
[illegible]

DATE	BY	REVISIONS	LTR.

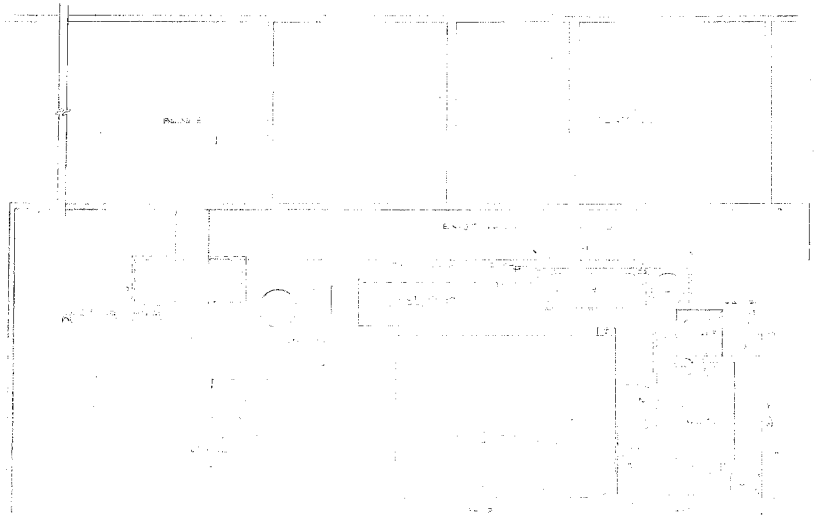
DRAWN [illegible] 2 1983
CHK'D
APP'D

Ecology Protection Systems Inc.
1147 N. TENTH ST.
SAN JOSE, CA. 95112

PIPING & ELECTRICAL LAYOUTS - WASTE TREATMENT SYSTEM

STE SYLVAN-A

SCALE [illegible]



Equipment

A	Contaminated Mould Storage Tank	TA-2
B	Cleaner " " "	TA-3
	Acidifier " " "	TA-1
	Cleaner " " "	TA-1
A	Flocculant Storage Tank	
B	Sodium Metabisulfite Storage Tank	
C	Vitreous Mould Tank	
D	Sodium Hydroxide Storage (in THREADED Unit)	
E	Electrical Load Center	
F	Sodium Hypochlorite	
G	Sump	
H	Process Water	
K	Sulfuric Acid Tank	TA-0

APPROVED FOR CONSTRUCTION
FEB 12 1990
[illegible]

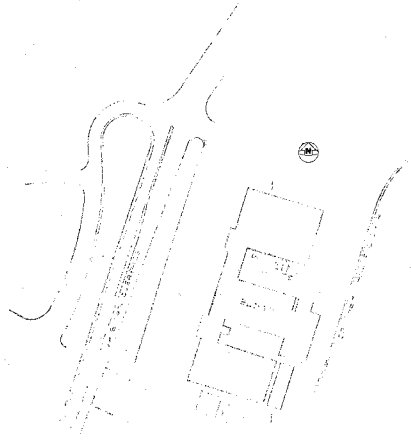
DATE	BY	REVISIONS	LTR

Ecology Protection Systems, Inc.
1747 N. TRUSS ST.
SAN JOSE, CA. 95112

EQUIPMENT LOCATION
WASTE TREATMENT SYSTEM
FOR
GTE SYLVANIA

SCALE 1"=10'

#18



RECEIVED
MAR 2 1983
PLAN CHECK

PROVISIONAL CONSTRUCTION

☐ Approved as Submitted

☒ Conditionally approved, See Lease Comments
dated 3/8/83 D. KOERSTEN

☐ Disapproved.

NOTE: Acceptance of this document is an approval of the Provisional Construction and Site Inspection.

INSTRUCTIONS FOR FIRE DEPARTMENT
USE OF THE PROVISIONS

1. MEASURES SHALL BE TAKEN TO PREVENT UNAUTHORIZED ACCESS TO HAZARDOUS MATERIALS
2. WASTE TREATMENT AREA SHALL BE LABELED TO REFLECT NATURE OF PRODUCTS WITHIN. LABELING SHALL CONFORM WITH NFPA 704 STANDARDS. LABELS SHALL BE PLACED SO AS TO BE PLAINLY VISIBLE FROM THE STREET OR ROADWAY.

D. KOERSTEN
3/8/83 APPROVED FOR
M.V.F.D. CONSTRUCTION

RECEIVED
MAR 3 1983
FIRE DEPT.

CITY OF SPOKANE VIEW
BUILDING INSPECTION DIV.
PER

DATE	BY	REVISIONS	APP.

DRAWN L.M.F. E.H.B.
CHK'D
APP'D

Ecology Protection Systems, Inc. 1147 N. TENTH ST. SAN JOSE, CA. 95112

COVER SHEET - WASTE TREATMENT SYSTEM.

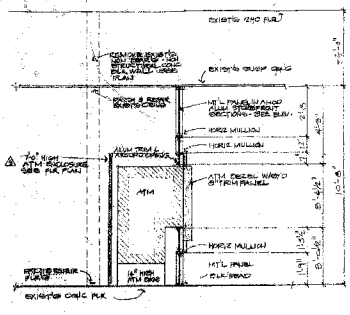
FOR: GTE SYLVANIA
100 FREEDOM

SCALE: 1"=1'-0" | DRAWING NO.

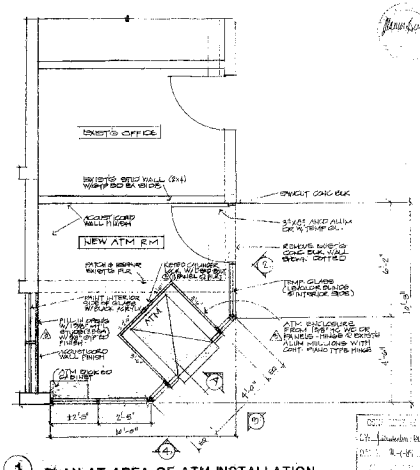
#22

GENERAL NOTES

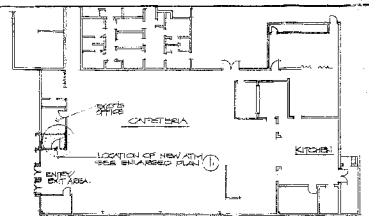
1. ALL WORK SHALL COMPLY TO THE 1982 UNIFORM BUILDING CODE AND ALL APPLICABLE LOCAL BUILDING CODES AND REGULATIONS.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SHALL REQUIRED CLEARANCES PRIOR TO CONSTRUCTION.
3. VERIFY STRUCTURAL REQUIREMENTS PRIOR TO THE START OF ANY CONSTRUCTION.
4. ALL NEW TELEPHONE EQUIPMENT TO BE INSTALLED BY TELEPHONE COMPANY.
5. ALL NEW ELECTRICAL WORK SHALL BE COMPLETED UNDER SEPARATE PERMIT.
6. REPAIRED, REPAIRED AND FINISH NEW SURFACES WITH MATERIALS AND COLORS TO MATCH PRESENT AND ADJOINING SURFACES.



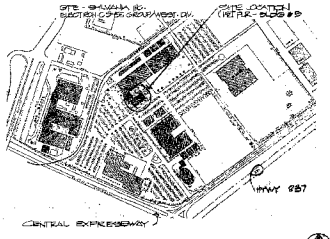
(A) WALL SECTION AT ATM



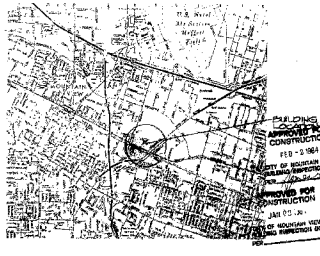
(1) PLAN AT AREA OF ATM INSTALLATION



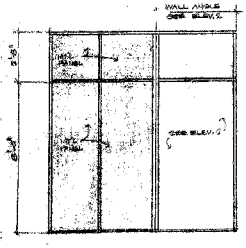
KEY - PLAN



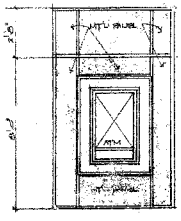
SITE PLAN



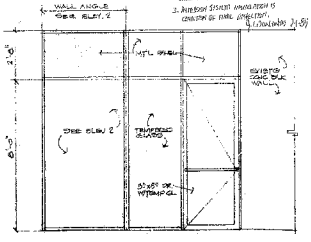
VICINITY MAP



(4) WALL ELEV.



(3) WALL ELEV. AT ATM



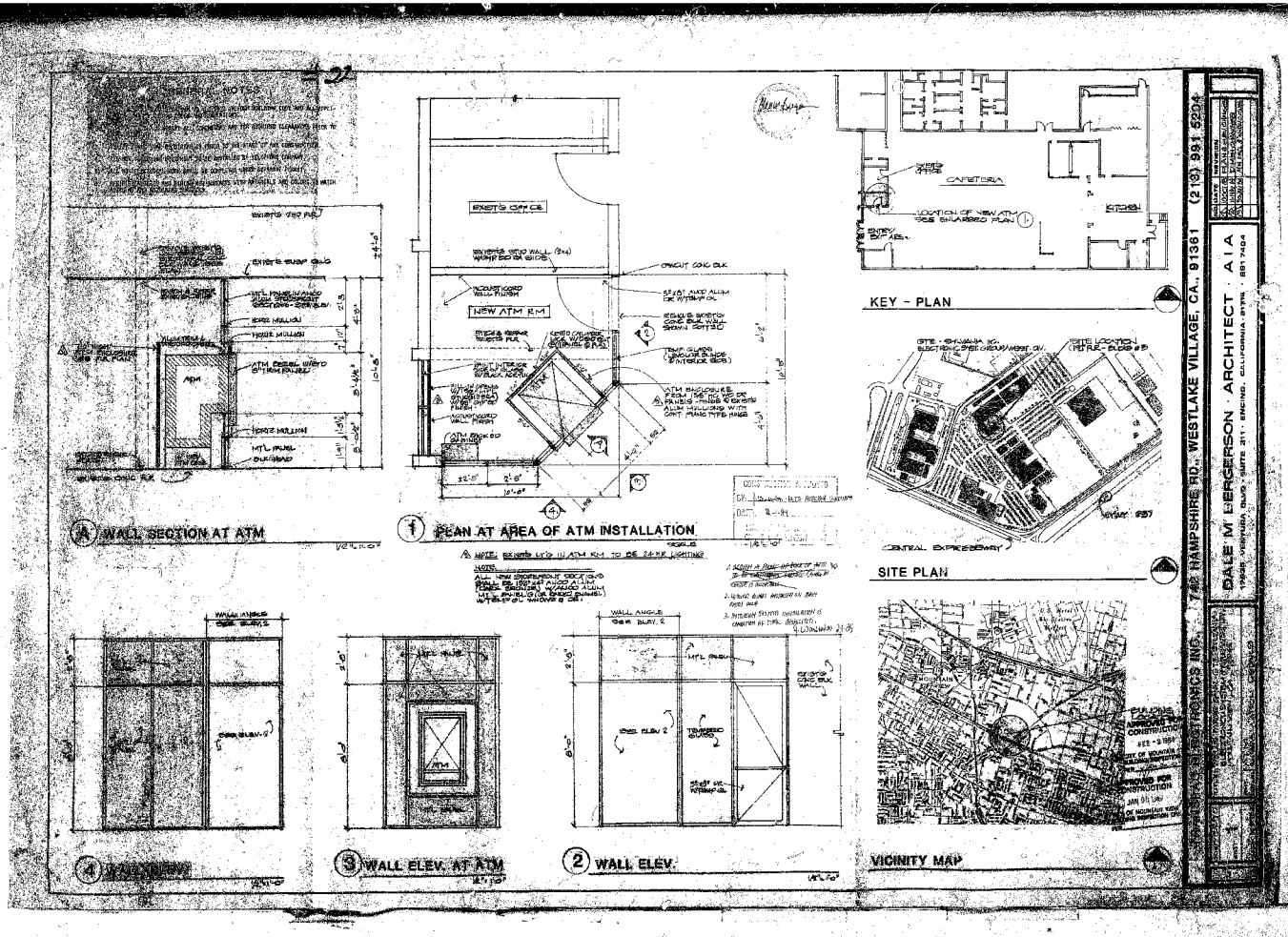
(2) WALL ELEV.

TRANSPAC ELECTRONICS INC.
742 HAMPSHIRE RD., WESTLAKE VILLAGE, CA. 91361 (213) 991 5204

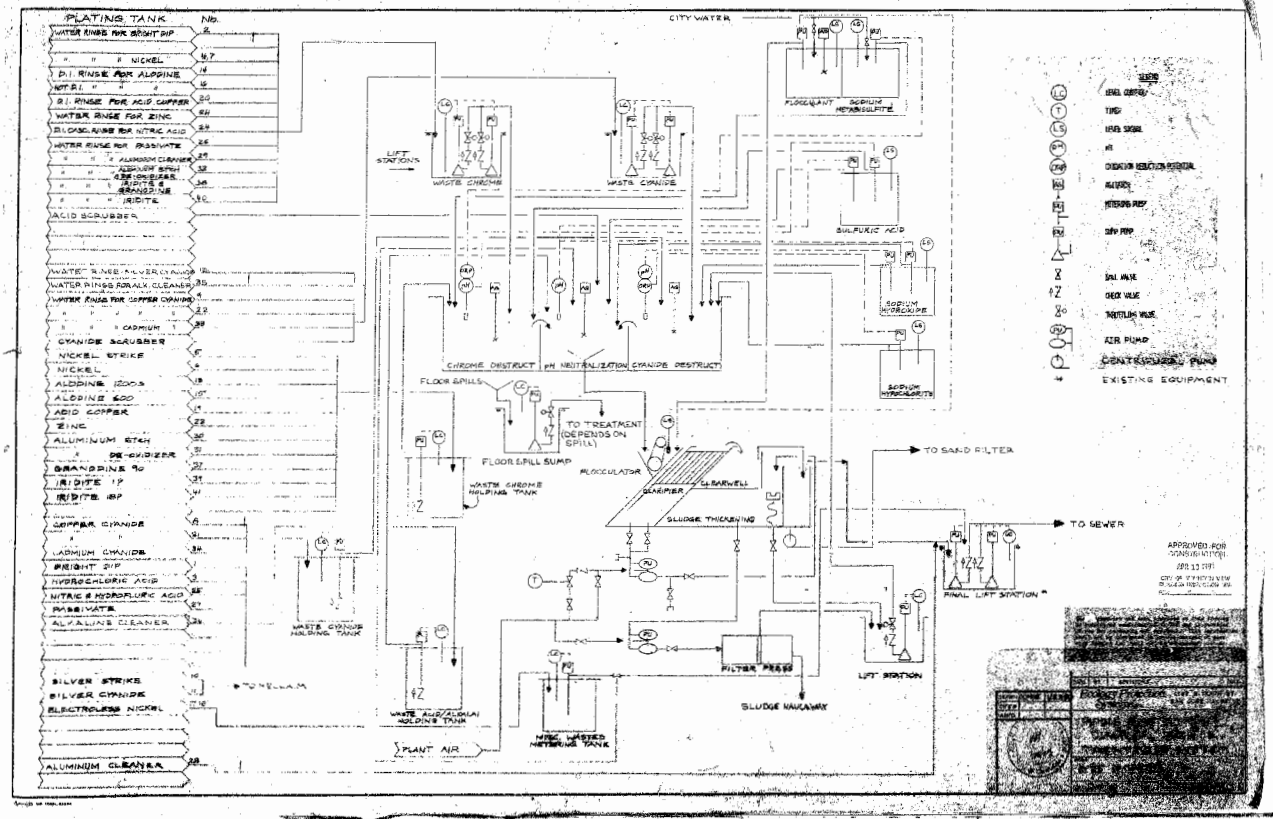
DALE M BERGERSON · ARCHITECT · A I A
17535 VENTURA BLVD · SUITE 311 · ENCINO, CALIFORNIA · 91316 · 881 7404

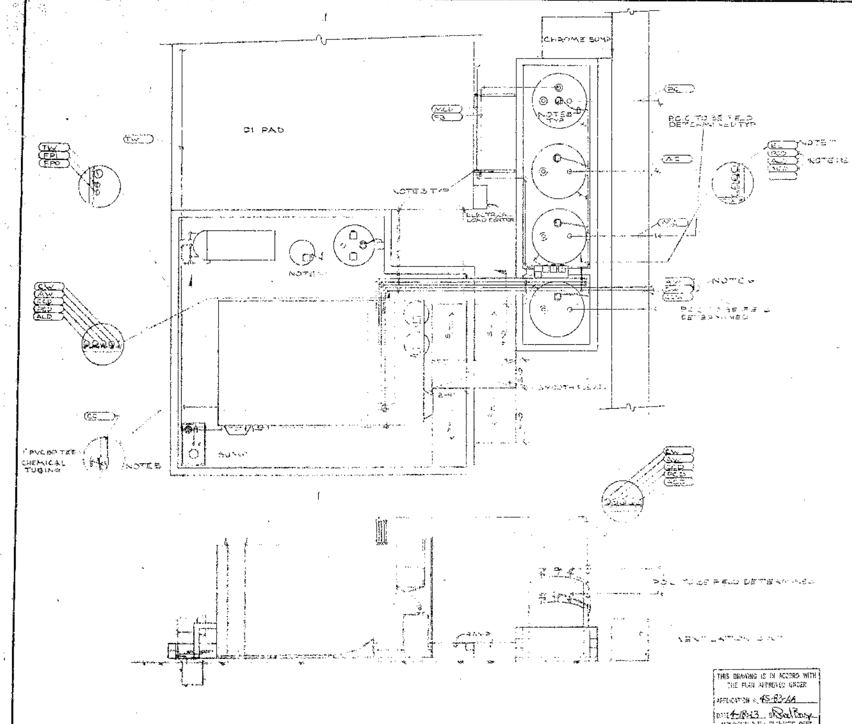
DATE	BY	REVISIONS
12/12/83		PRELIMINARY
12/13/83		PRELIMINARY
12/14/83		PRELIMINARY
12/15/83		PRELIMINARY

DATE 12/12/83
SCALE AS NOTED
DRAWN BY
SHT. 1 OF 1
JOB NO. 8312
TITLE: ATM INSTALLATION DETAILS



#22
GENERAL NOTES
EXIST'G OFFICE
NEW ATM RM
ATM
A WALL SECTION AT ATM
1 PLAN AT AREA OF ATM INSTALLATION
NOTE: EXIST'G LIT'G IN ATM RM TO BE 24 HR LIGHTING
KEY - PLAN
CAFETERIA
KITCHEN
LOCATION OF NEW ATM SEE ENLARGED PLAN
SITE PLAN
CENTRAL EXPRESSWAY
WALL ANGLE SEE ELEV. 2
4 WALL ELEV.
3 WALL ELEV. AT ATM
2 WALL ELEV.
VICINITY MAP
APPROVED FOR CONSTRUCTION
DALE M. BERGERSON ARCHITECT · A I A
TAC HAMPSHIRE RD., WESTLAKE VILLAGE, CA., 91361 (213) 991 5204


PLATING TANK
No.
WATER RINSE FOR BRIGHT DIP
" " " NICKEL
D.I. RINSE FOR ALODINE
NOT D.I. " " "
D.I. RINSE FOR ACID COPPER
WATER RINSE FOR ZINC
D.I. CASC. RINSE FOR NITRIC ACID
WATER RINSE FOR PASSIVATE
" " " ALUMINUM CLEANER
" " " ALUMINUM STRIP & DE-OXIDIZER
" " " IRIDITE & GRANODINE
" " " IRIDITE
ACID SCRUBBER
WATER RINSE SILVER CYANIDE
WATER RINSE FOR ALK. CLEANER
WATER RINSE FOR COPPER CYANIDE
" " " " "
" " " CADMIUM
CYANIDE SCRUBBER
NICKEL STRIKE
NICKEL
ALODINE 1200S
ALODINE 600
ACID COPPER
ZINC
ALUMINUM STRIP
" DE-OXIDIZER
GRANODINE 90
IRIDITE 1P
IRIDITE 18P
COPPER CYANIDE
" "
CADMIUM CYANIDE
BRIGHT DIP
HYDROCHLORIC ACID
NITRIC & HYDROFLUORIC ACID
PASSIVATE
ALKALINE CLEANER
SILVER STRIKE
SILVER CYANIDE
ELECTROLESS NICKEL
ALUMINUM CLEANER
CITY WATER
LIFT STATIONS
WASTE CHROME
WASTE CYANIDE
FLOCCULANT
SODIUM METABISULFITE
SULFURIC ACID
SODIUM HYDROXIDE
SODIUM HYPOCHLORITE
CHROME DESTRUCT
pH NEUTRALIZATION
CYANIDE DESTRUCT
FLOOR SPILLS
FLOOR SPILL SUMP
TO TREATMENT (DEPENDS ON SPILL)
FLOCCULATOR
CLEARIFIER
CLEARWELL
SLUDGE THICKENING
WASTE CHROME HOLDING TANK
WASTE CYANIDE HOLDING TANK
WASTE ACID/ALKALI HOLDING TANK
PLANT AIR
MISC. WASTED METERING TANK
FILTER PRESS
SLUDGE HAULAWAY
LIFT STATION
FINAL LIFT STATION
TO SAND FILTER
TO SEWER
TO HELLAM
SEWER
LEVEL CONTROL
TIMER
LEVEL SIGNAL
PH
OXIDATION REDUCTION POTENTIAL
ALUMINUM
METERING PUMP
SUMP PUMP
BALL VALVE
CHECK VALVE
THROTTLING VALVE
AIR PUMP
CENTRIFUGAL PUMP
EXISTING EQUIPMENT
APPROVED FOR CONSTRUCTION
CITY OF PITTSBURGH
Bodory Production



NOTES

1.) All PE tubing is to be sleeved with one inch PVC 80 conduit using long-sweep elbows.

2.) Tubing is to run continuous from pump to point of treatment.

3.) Attach superstrut to existing DI pad.

4.) Locate pump suction over bung opening in drum.

5.) All PE tubing carrying reagent chemicals feeding the chemical treating chambers are to be fed in the top of the TEE of the process pipe.

6.) All process piping is SCH 80 1".

7.) All conduit is SCH 40.

8.) Allow enough flex conduit to pull the level sensor out.

LEGEND

TYPE	SIZE	DESCRIPTION	FROM	TO
AW	3"	Acid Waste	Chrome sump	TT40
CW	2"	Cyanide Waste	Cyanide sump	TT40
AC	2"	Acid Concentrate	Shop	TA-4
CC	1"	Cyanide Concentrate	Shop	TA-3
MC	2"	Miscellaneous Concentrate	Shop	TA-2
PC	2"	Acid/Alkali Concentrate	Shop	TA-1
ACD	3/8"	Acid Concentrate Dribble	TA-4	TT40
CCD	3/8"	Cyanide Concentrate Dribble	TA-3	TT40
MCD	3/8"	Miscellaneous Concentrate Dribble	TA-2	TT40
PCD	3/8"	Acid/Alkali Concentrate Dribble	TA-1	TT40
FB	2½"	Filter Backwash	Filter	TA-1
TW	3"	TREATED WATER	TT40	WET STN
FPI	1½"	FILTER PRESS IN	TT40	FILTER PRESS
FPO	1½"	FILTER PRESS OUT	FILTER PRESS	SUMP

THIS DRAWING IS IN ACCORD WITH THE PLAN APPROVED UNDER
APPLICATION # 45-83-66
DATE 4-18-83
SUNNYVALE PLANNING DEPT.

DATE	BY	REVISIONS	LTR

DRAWN

CHK'D

APP'D

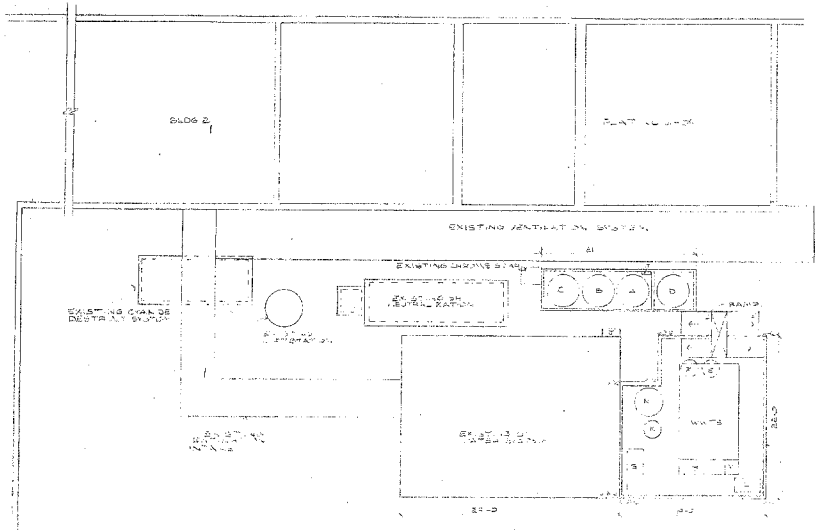
Ecology Protection Systems, Inc.
SAN JOSE, CA.

"PIPING & ELECTRICAL LAYOUTS" "WASTE TREATMENT SYSTEM"

FOR: GTE SYLVANIA

SCALE

DWG. NO.



Equipment

A	Miscellaneous Waste Storage Tank	2A-3
B	Chrome " " "	2A-4
C	Anti/Alkali " " "	2A-1
D	Cyanide " " "	2A-2
E	Plane/Gas Storage Tank	
F	Sorter Neutralizing Storage Tank	
G	TOSHIBA MATERIAL II	
H	Hollow Hydraulic Storage (In TOSHIBA Unit)	
I	Electrical Load Center	
J	Tetlow Hydraulic	
K	Sump	
L	Re-use Water	
M	Sulfuric Acid Tank	2A-3

THIS DRAWING IS IN ACCORD WITH THE PLAN REVIEWED UNDER APPLICATION # 45-85-AA DATE 4-15-83 BY [illegible] ARCHITECTS NEW PLANNING SECT

DATE	BY	REVISIONS	IN

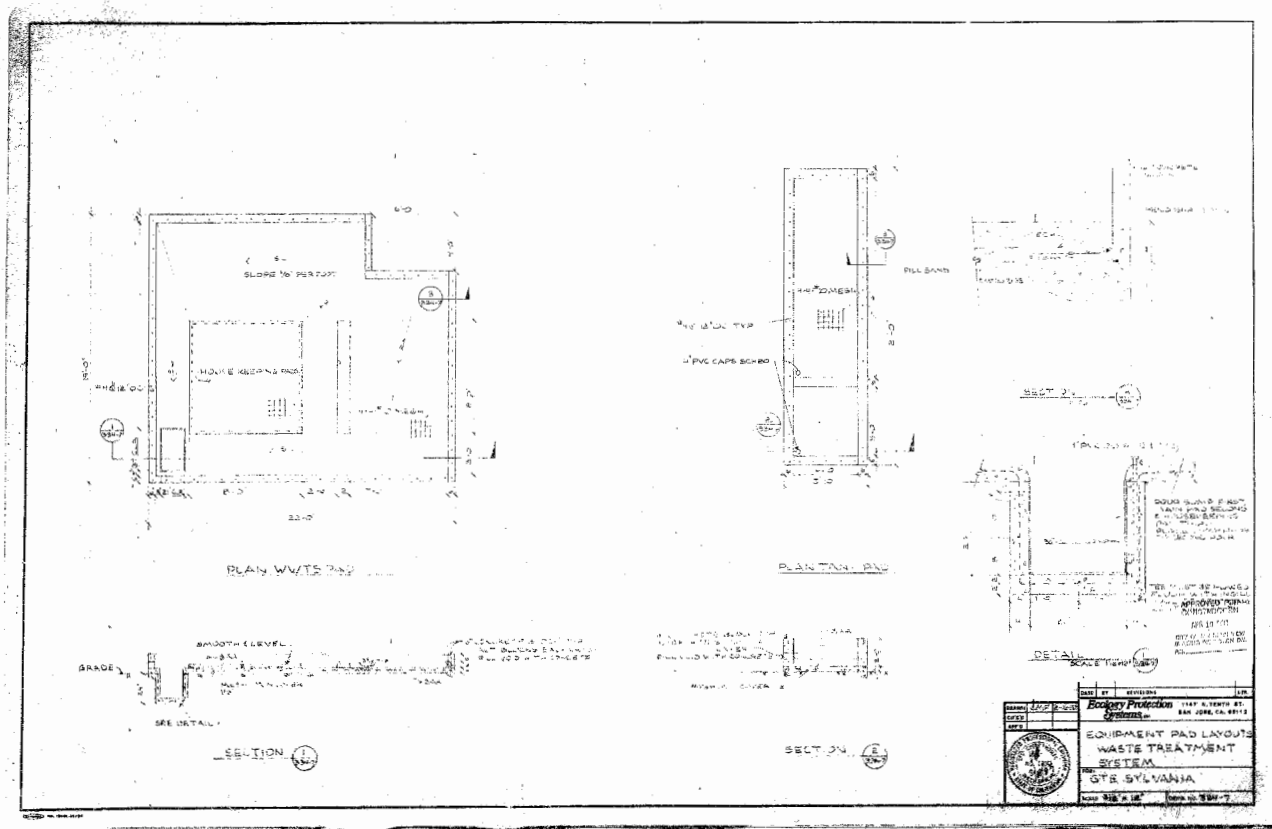
DRAWN [illegible] 2-16-83
CHK'D
APP'D

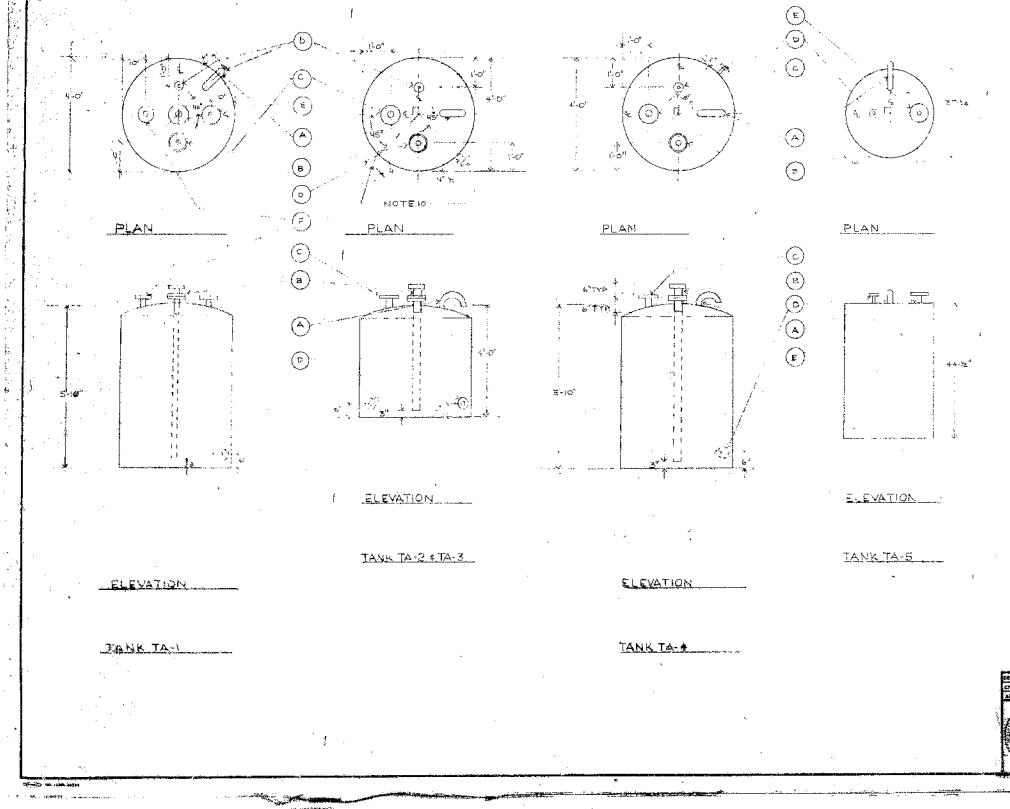
Ecology Protection Systems, Inc. 1147 N. TENTH ST. SAN JOSE, CA. 95112

EQUIPMENT LOCATION
WASTE TREATMENT SYSTEM

FOR GTE SYLVANIA

SCALE 1" = 5'


PLAN WWTS PAD
SLOPE 1/8" PER FOOT
HOUSE KEEPING PAD
PLAN TANK PAD
FILL SAND
4" PVC CAPS SCH 80
SECTION
SMOOTH LEVEL
GRADE
SEE DETAIL
SECTION
DETAIL
SCALE 1"=10'
APPROVED FOR AND CONSTRUCTION
Ecology Protection Systems, Inc.
EQUIPMENT PAD LAYOUTS
WASTE TREATMENT
SYSTEM
GTE SYLVANIA



EQUIPMENT
(QUANTITIES ARE TOTAL PER THIS DWNG.)

LTR	FITTING	QUAN.	NOTE
A	2 GOOSE-NECK VENT	4	
B	3" REMOV. FLG'D NOZZLE	4	
C	3" FLG'D NOZZLE	4	9
D	1" FLG'D NOZZLE	4	9
E	2" FLG'D NOZZLE		9
F	2½ FLG'D NOZZLE	1	9

Notes:

1. Tanks are closed top, flat or dished (wedge shaped for TA-1-4) flat top in TA-2, flat bottom.
2. Tank caps are to be designed to support a minimum 300 pound live load on any point.
3. Tank material is homogeneous cross-linked polyethylene, all fittings polyethylene, P.E. or PVC.
4. Vendor is to provide 316 SS nuts, bolts and washers and Viton gasket for Hip-pipe connection.
5. Pipe nozzles to accept 3" reasonable flanged dip-pipe.
6. Offered side-down leg if required to clear details.
7. Use point of entry through tank cap for height of bassin dimension reference.
8. All standard rugs are to be designed to withstand seismic zone 2A loading.
9. Flanges are to be 150 pound ANSI with standard bolt patterns.
10. Place to use nozzle per tank as shown.
11. Dimensional tolerances:
    Linear ± ¼"
    Angular ± 0.2°

APPROVED FOR
AUGUST 1978

DATE	BY	REVISIONS	LTR

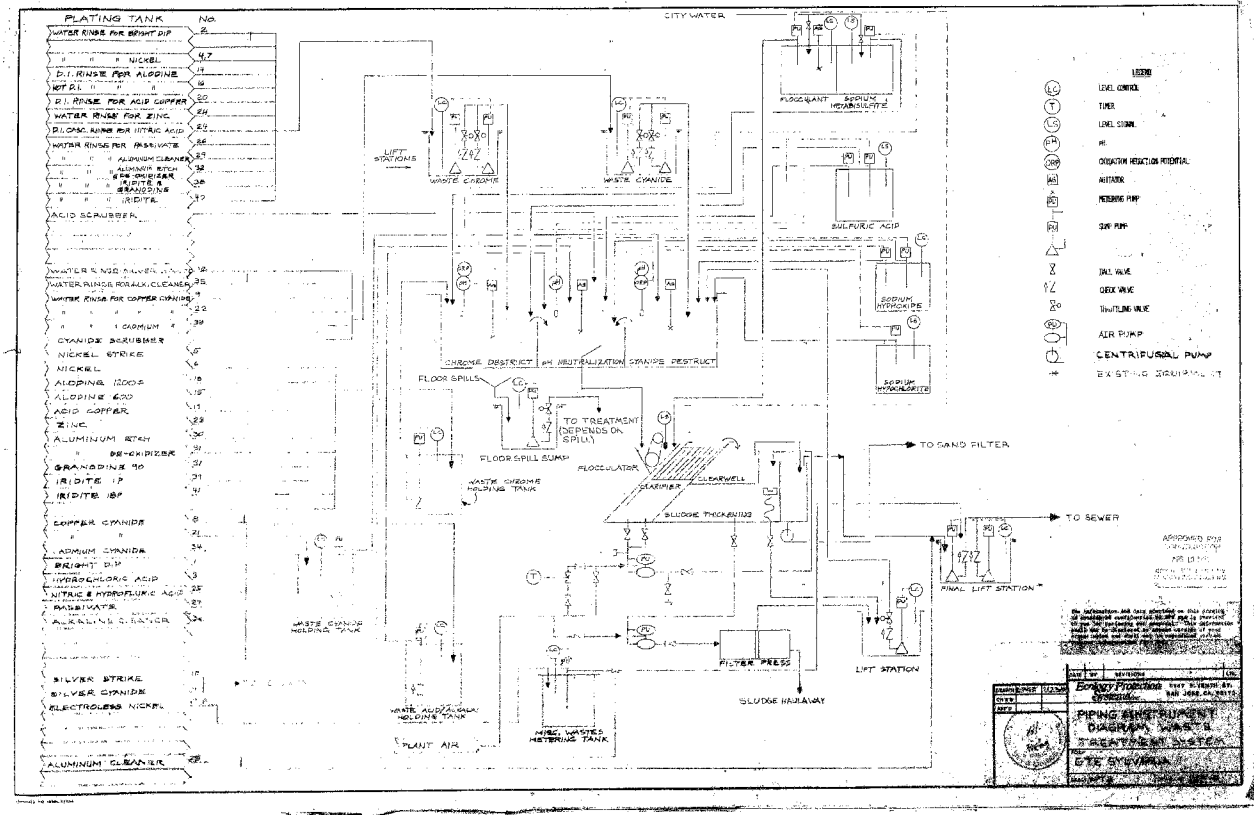
DESIGN LWE 11/4/78
CHK'D
APP'D

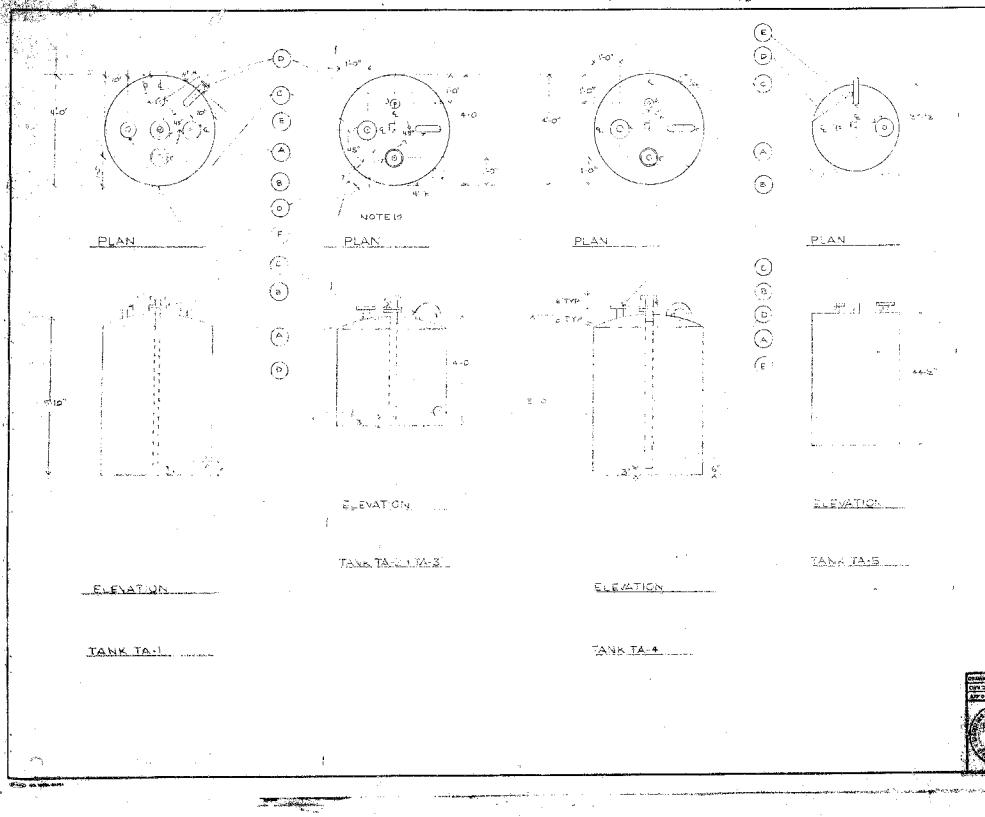
Ecology Protection Systems
1147 N. TENTH ST.
SAN JOSE, CA. 95112

TANK DETAILS
TANKS TA-1 THRU TA-5
WASTE TREATMENT SYSTEM

GTE SYLVANIA

SCALE 3/8"=1'-0" DWG. NO. 334-6


PLATING TANK
No.
WATER RINSE FOR BRIGHT DIP
NICKEL
D.I. RINSE FOR ALODINE
HOT D.I.
D.I. RINSE FOR ACID COPPER
WATER RINSE FOR ZINC
D.I. CASC. RINSE FOR NITRIC ACID
WATER RINSE FOR PASSIVATE
ALUMINUM CLEANER
ALUMINUM ETCH
IRIDITE & GRANODINE
IRIDITE
ACID SCRUBBER
WATER RINSE FOR ALK. CLEANER
WATER RINSE FOR COPPER CYANIDE
CADMIUM
CYANIDE SCRUBBER
NICKEL STRIKE
NICKEL
ALODINE 1200S
ALODINE 600
ACID COPPER
ZINC
ALUMINUM ETCH
DE-OXIDIZER
GRANODINE 90
IRIDITE IP
IRIDITE IBP
COPPER CYANIDE
CADMIUM CYANIDE
BRIGHT DIP
HYDROCHLORIC ACID
NITRIC & HYDROFLUORIC ACID
PASSIVATE
ALKALINE CLEANER
SILVER STRIKE
SILVER CYANIDE
ELECTROLESS NICKEL
ALUMINUM CLEANER
CITY WATER
LIFT STATIONS
WASTE CHROME
WASTE CYANIDE
FLOCCULANT
SODIUM METABISULFITE
SULFURIC ACID
SODIUM HYPOXIDE
SODIUM HYPOCHLORITE
CHROME DESTRUCT
pH NEUTRALIZATION
CYANIDE DESTRUCT
FLOOR SPILLS
TO TREATMENT (DEPENDS ON SPILL)
FLOOR SPILL SUMP
FLOCCULATOR
CLEARIFIER
CLEARWELL
SLUDGE THICKENING
WASTE CHROME HOLDING TANK
WASTE CYANIDE HOLDING TANK
WASTE ACID/ALKALINE HOLDING TANK
PLANT AIR
MISC. WASTES METERING TANK
FILTER PRESS
SLUDGE HAULAWAY
LIFT STATION
TO SAND FILTER
TO SEWER
FINAL LIFT STATION
LEGEND
LEVEL CONTROL
TIMER
LEVEL SIGNAL
pH
OXIDATION REDUCTION POTENTIAL
AGITATOR
METERING PUMP
SUMP PUMP
BALL VALVE
CHECK VALVE
THROTTLING VALVE
AIR PUMP
CENTRIFUGAL PUMP
EXISTING EQUIPMENT
Ecology Protection Corporation
PIPING & INSTRUMENT DIAGRAM WASTE TREATMENT SYSTEM
GTE SYLVANIA



EQUIPMENT
(QUANTITIES ARE TOTAL PER THIS DWG.)

LTR	FITTING	QUAN	NOTE
A	2 GOOSE-NECK VENT	4	
B	3" REMOV. FLG. DIP PIPE	4	
C	3" FLGD NOZZLE	4	9
D	1" FLGD NOZZLE	8	9
E	2" FLGD NOZZLE		9
F	2½" FLGD NOZZLE	1	9

Notes:

1. Tanks are closed top, flat or sloped (under choice for TA-1) flat top to TA-5, flat bottom.
2. Tank tops are to be designed to support a minimum 300 pound flow load in any point.
3. Tank material is heavy-wall reinforcing polypropylene, all fittings polypropylene, F.R. to PVC.
4. Vendor is to provide 316 SS nuts, bolts and washers and clean gasket for dip-pipe connection.
5. Flow nozzles to accept 3" removable flanged stylism.
6. Different air-drawn log is required to clear nozzle.
7. Use point of entry through tank top for height of nozzle dimension reference.
8. All air-drawn lugs are to be designed to withstand outside zone 3" loading.
9. Flanges are to be 150 pound ANSI with standard bolt patterns.
10. There is one nozzle per tank as shown.
11. Dimensional tolerances
    Linear ± 0"
    Angular ± 0.5°

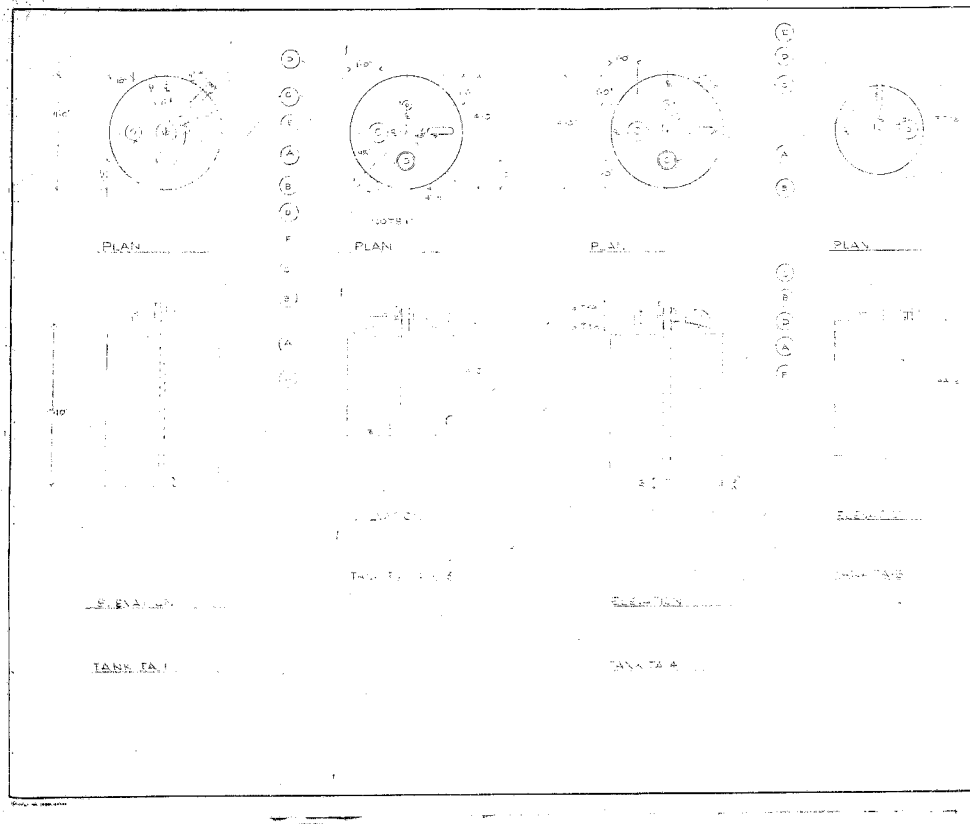
APPROVED FOR CONSTRUCTION

DATE	BY	REVISIONS	LTR

Ecology Protection Systems, Inc. 1197 N. TENTH ST., SAN JOSE, CA. 95112

TANK DETAILS
TANKS TA-1 THRU TA-5
WASTE TREATMENT SYSTEM

GTE SYLVANIA



EQUIPMENT

LTR		QUAN	NOTE
A	[illegible]	4	
B	[illegible]	4	
C	[illegible]	[illegible]	
D	[illegible]	[illegible]	
E	[illegible]	[illegible]	
F	[illegible]	[illegible]	

Notes

1. Tanks are closed top, flat or arched bottom shown in 1-0" flat top to 7'6", flat bottom.
2. Tank tops are to be designed to support a minimum 75 psf live load or one gallon.
3. Tank materials: Is fiberglass reinforced polyurethane, all fittings polypropylene, PVC or FRP.
4. Tanker is to provide 300 ft. metal, bolted and welded and Viton gaskets for flangeline connection.
5. Tank nozzles to accept 2" connectable flanged disc-pipe.
6. Fiberglass stop-drain log is required to clear nozzle.
7. Tank points of entry provide leak rup for height of [illegible] installation reference.
8. All stop-drain logs are to be designed to withstand [illegible] 2" loading.
9. Flanges are to be 150 psi ANSI with standard [illegible] faces.
10. There is no nozzle per tank as shown.
11. Dimensional tolerances:
    Linear [illegible]
    Angular [illegible]

DATE	BY	REVISIONS	LTR

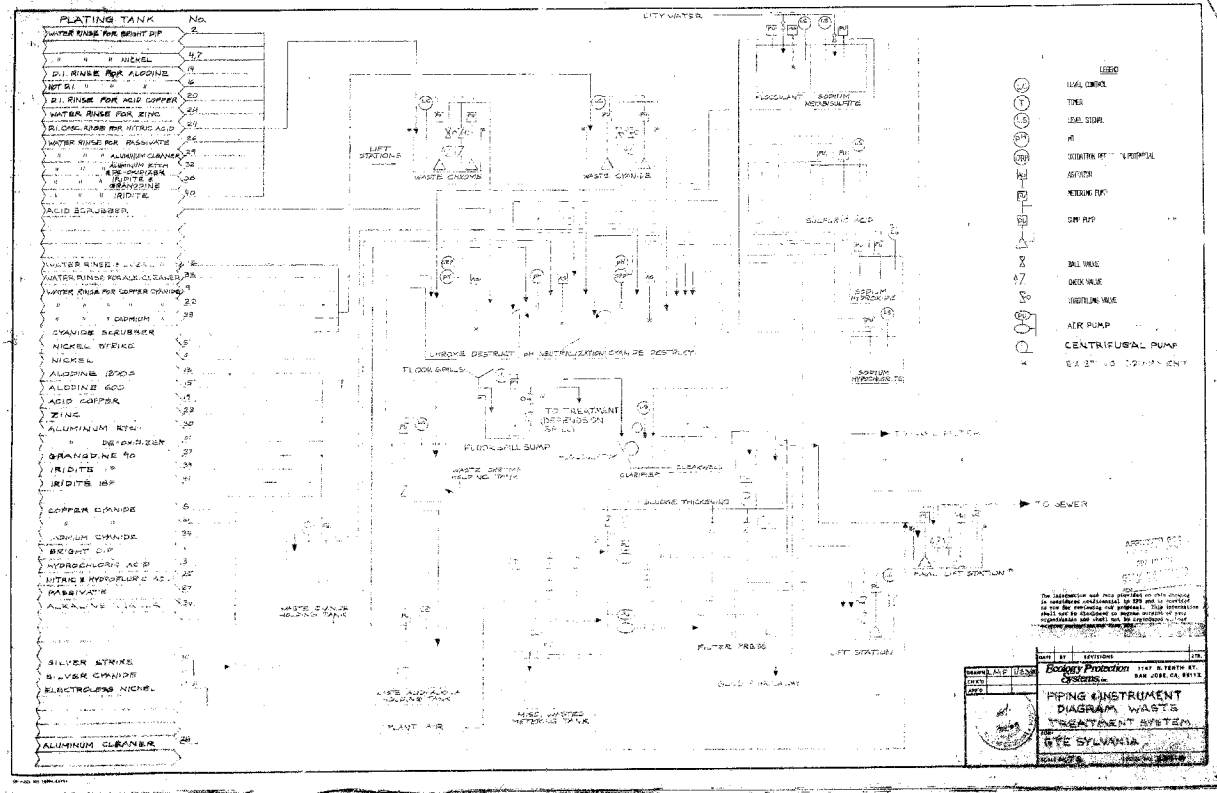
Ecology Protection Systems, Inc. 1147 E. TENTH ST. SAN JOSE, CA. 95112

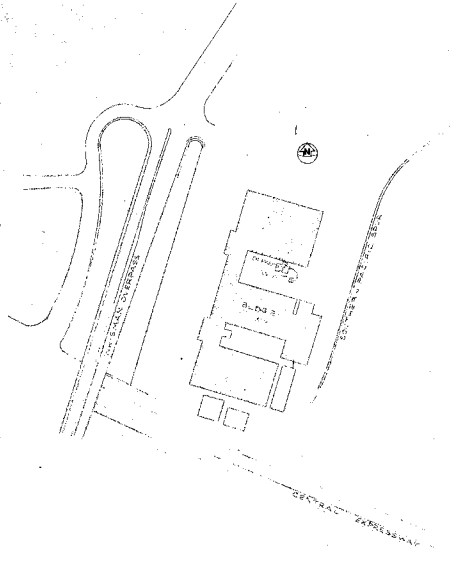
DRAWN [illegible] 1/14/80
CK'D
APP'D

TANK DETAILS
TANKS TA-1 THRU TA-5
WASTE TREATMENT SYSTEM

FOR GTE SYLVANIA

SCALE 3/8"=1'-0" DRWG. NO. 334-E


PLATING TANK
No.
WATER RINSE FOR BRIGHT DIP
NICKEL
D.I. RINSE FOR ALODINE
D.I. RINSE FOR ACID COPPER
WATER RINSE FOR ZINC
D.I. CASC. RINSE FOR NITRIC ACID
WATER RINSE FOR PASSIVATE
ALUMINUM CLEANER
ALUMINUM ETCH
IRIDITE & GRANODINE
IRIDITE
ACID SCRUBBER
WATER RINSE
WATER RINSE FOR ALK. CLEANER
WATER RINSE FOR COPPER CYANIDE
CADMIUM
CYANIDE SCRUBBER
NICKEL STRIKE
NICKEL
ALODINE 1200S
ALODINE 600
ACID COPPER
ZINC
ALUMINUM ETCH
DE-OXIDIZER
GRANODINE 90
IRIDITE
IRIDITE 18F
COPPER CYANIDE
CADMIUM CYANIDE
BRIGHT DIP
HYDROCHLORIC ACID
NITRIC & HYDROFLUORIC ACID
PASSIVATE
ALKALINE CLEANER
SILVER STRIKE
SILVER CYANIDE
ELECTROLESS NICKEL
ALUMINUM CLEANER
CITY WATER
LIFT STATION
WASTE CHROME
WASTE CYANIDE
FLOCCULANT
SODIUM METABISULFITE
SULFURIC ACID
SODIUM HYDROXIDE
SODIUM HYPOCHLORITE
CHROME DESTRUCT. pH NEUTRALIZATION CYANIDE DESTRUCT.
FLOOR SPILLS
TO TREATMENT DEPENDS ON SPILL
FLOOR SPILL SUMP
WASTE CHROME HOLDING TANK
CLARIFIER
CLEARWELL
SLUDGE THICKENING
TO SEWER
FINAL LIFT STATION
FILTER PRESS
LIFT STATION
WASTE CYANIDE HOLDING TANK
WASTE AUDIOLOGICAL HOLDING TANK
PLANT AIR
MISC. WASTED METERING TANK
LEGEND
LEVEL CONTROL
TIMER
LEVEL SIGNAL
pH
OXIDATION REDUCTION POTENTIAL
AGITATOR
METERING PUMP
SUMP PUMP
BALL VALVE
CHECK VALVE
THROTTLING VALVE
AIR PUMP
CENTRIFUGAL PUMP
DATE
BY
REVISIONS
Ecology Protection Systems, Inc.
1147 N. TENTH ST.
SAN JOSE, CA. 95112
PIPING & INSTRUMENT DIAGRAM WASTE TREATMENT SYSTEM
GTE SYLVANIA



DRAWING INDEX

TITLE	NUMBER
COVER SHEET	33H-1
EQUIPMENT LOCATIONS	33H-2
PIPING & ELECTRICAL ARRANGEMENT	33H-3
PIPING & INSTRUMENT DIAGRAM	33H-4
TANK DETAILS	33H-5
PUMP RACK	33H-6
EQUIPMENT PAD LAYOUTS	33H-7

THIS DRAWING IS IN ACCORD WITH THE PLAN APPROVED UNDER
APPLICATION 4-5-83-AA
DATE 4-18-83 BY [signature]
MOUNTAIN VIEW PLANNING DEPT.

APPROVED FOR CONSTRUCTION
AUG 18 1983
VISITED IN MOUNTAIN VIEW
FOR _____

DATE	BY	REVISIONS	ENG

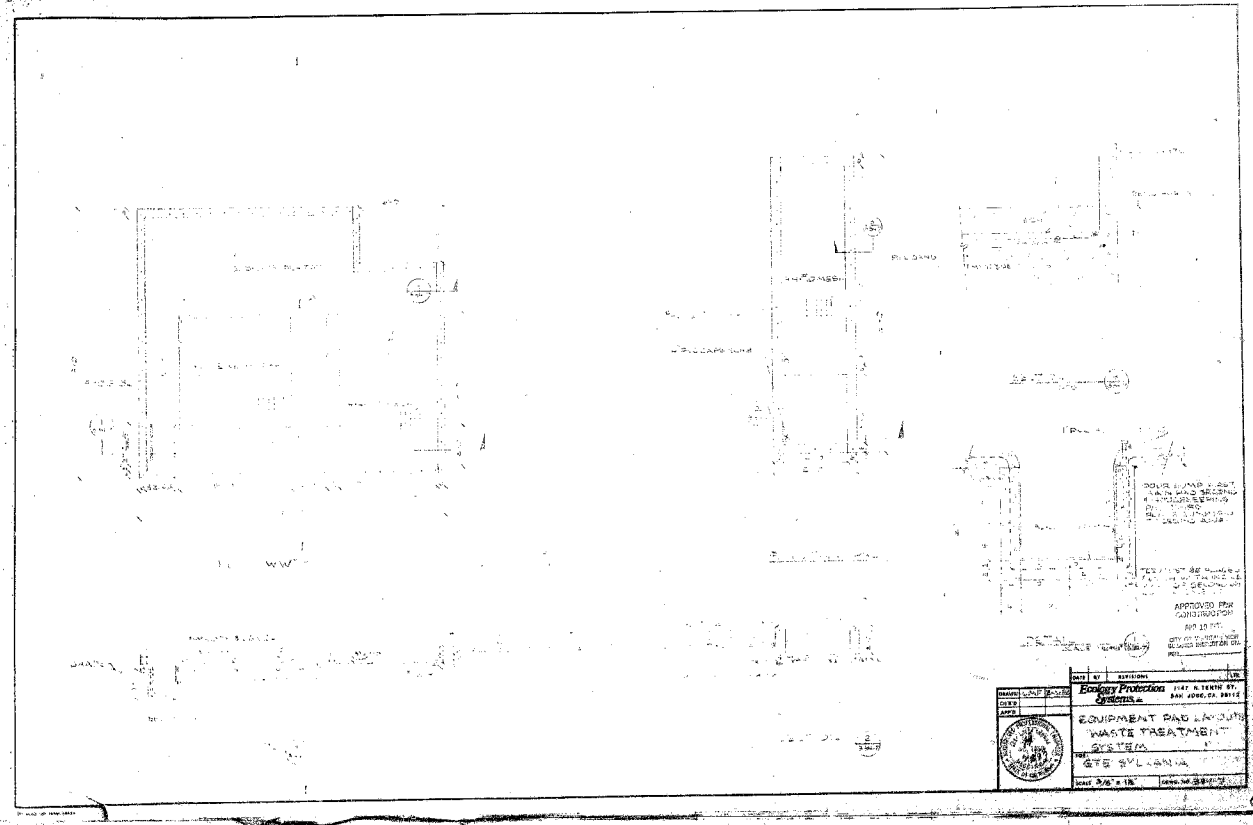
DESIGN LMF 8-18-83
CHK'D
APP'D

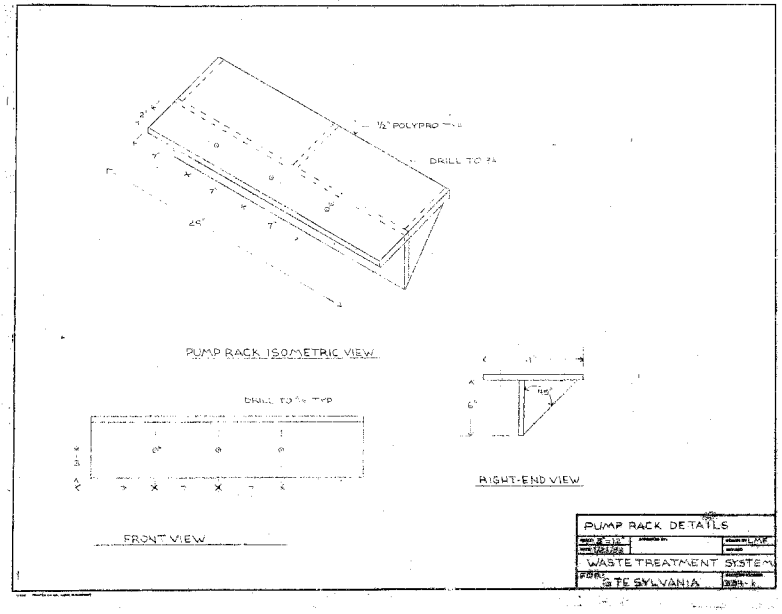
Ecology Protection Systems Inc. 1147 N. TENTH ST. SAN JOSE, CA. 95112

COVER SHEET-WASTE TREATMENT SYSTEM

GTE SYLVANIA

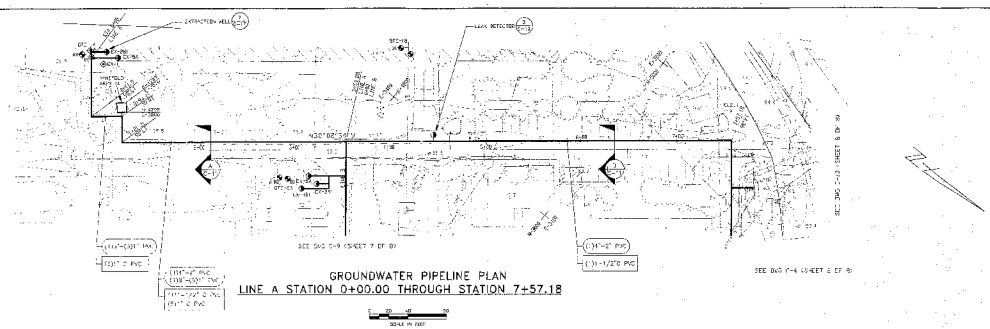
SCALE 1/4 = 1'-0"


APPROVED FOR CONSTRUCTION
DATE BY REVISIONS
Ecology Protection Systems, Inc.
1147 N. TENTH ST.
SAN JOSE, CA. 95112
EQUIPMENT PAD LAYOUT
WASTE TREATMENT
SYSTEM
GTE SYLVANIA


1½" POLYPRO
DRILL TO
26"
PUMP RACK ISOMETRIC VIEW
DRILL TO
FRONT VIEW
RIGHT-END VIEW
PUMP RACK DETAILS
LMF
WASTE TREATMENT SYSTEM
TE SYLVANIA

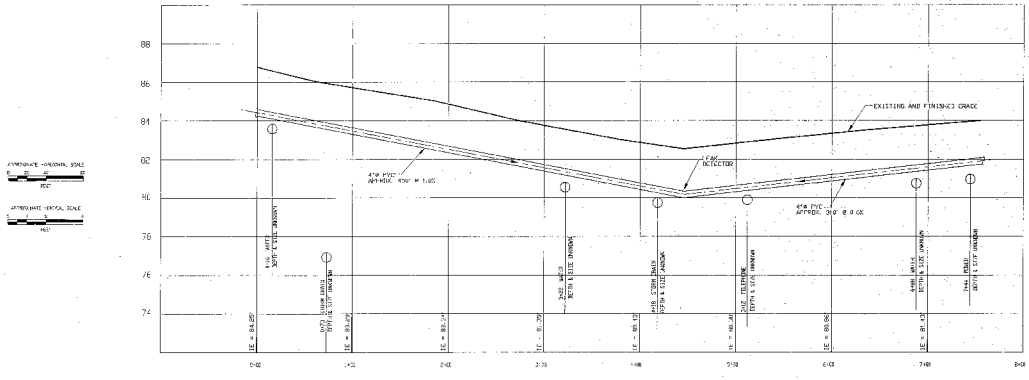
NOTE:

The types, locations, sizes and/or depths of existing underground utilities as shown on this topographic survey were obtained from sources of varying reliability. The contractor is cautioned that only actual excavation will reveal the types, extent, sizes, locations and depths of each underground utilities. Its reasonable effort has been made to locate and delineate all known underground utilities. However, the engineer can assume no responsibility for the completeness or accuracy of its delineation of such underground utilities which may be encountered, but which are not shown on these drawings.



GROUNDWATER PIPELINE PLAN
LINE A STATION 0+00.00 THROUGH STATION 7+57.18

SCALE IN FEET

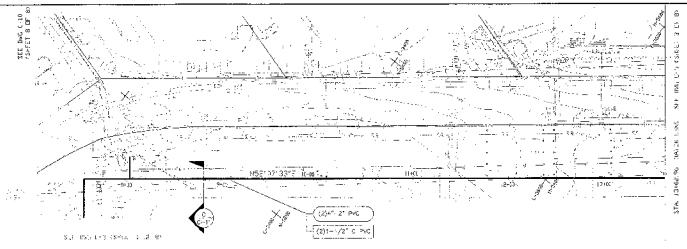


GROUNDWATER PIPELINE PROFILE
LINE A

APPROVED FOR CONSTRUCTION
JUN 1 0 1995
DIV. OF HIGHWAYS, ALL. MAP.
FILE

ISSUED FOR CONSTRUCTION	3/27/95	GROUNDWATER EXTRACTION AND TREATMENT SYSTEM GTE GTE GOVERNMENT SYSTEMS 100 FERGUSON DRIVE MOUNTAIN VIEW, CALIFORNIA	Woodward-Clyde Consultants	REVIEWING IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE	CIVIL (SHEET 1 OF 8) GROUNDWATER PIPELINE PLAN AND PROFILE C-3
ISSUED FOR REVIEWING	1/25/95			1/25/95	

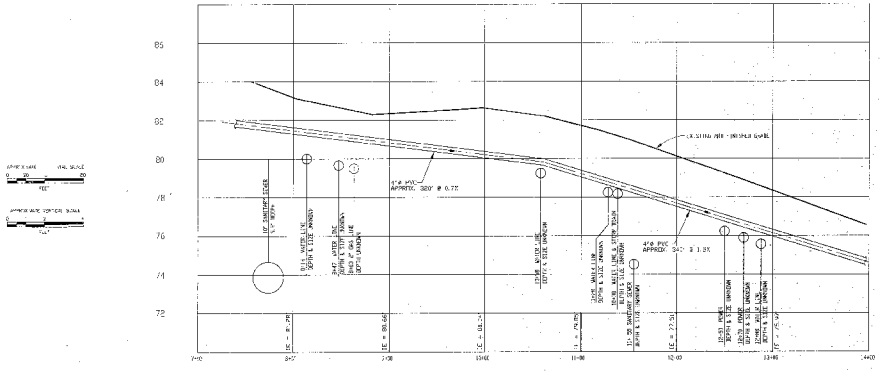
24X



GROUNDWATER PIPELINE PLAN
LINE A STATION 7+57.18 THROUGH STATION 13+62.96

NOTE

For types, locations, sizes and/or depths of existing underground utilities as shown on this topographic survey were obtained from sources of varying reliability. The contractor is cautioned that only actual excavation will reveal the types, extent, sizes, locations and depths of such underground utilities. (A reasonable effort has been made to locate and delineate all known underground utilities.) However, the engineer can assume no responsibility for the completeness or accuracy of the delineation of such underground utilities which may be encountered, but which are not shown on these drawings.



GROUNDWATER PIPELINE PROFILE
LINE A

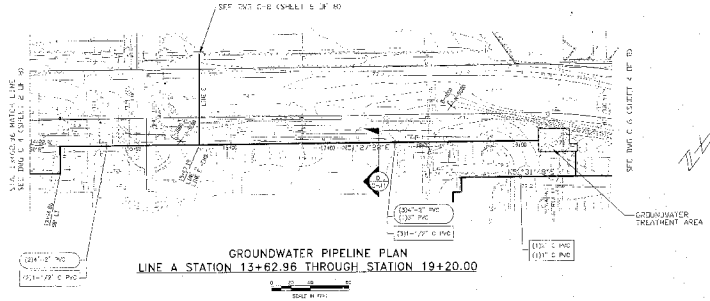
APPROVED FOR CONSTRUCTION
JUN 12 1995
CITY OF MOUNTAIN VIEW, CALIF.
TYP. MTS

ISSUED FOR CONSTRUCTION REV 2/27/95 ISSUED FOR PERMITTING REV 1/25/95	GROUNDWATER EXTRACTION AND TREATMENT SYSTEM CTE CTE GOVERNMENT SYSTEMS 100 FERGUSON DRIVE MOUNTAIN VIEW, CALIFORNIA	Woodward-Clyde Consultants	DRAWING IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE	DATE 1/25/95	CIVIL (SHEET 2 OF 8) GROUNDWATER PIPELINE PLAN AND PROFILE C-4

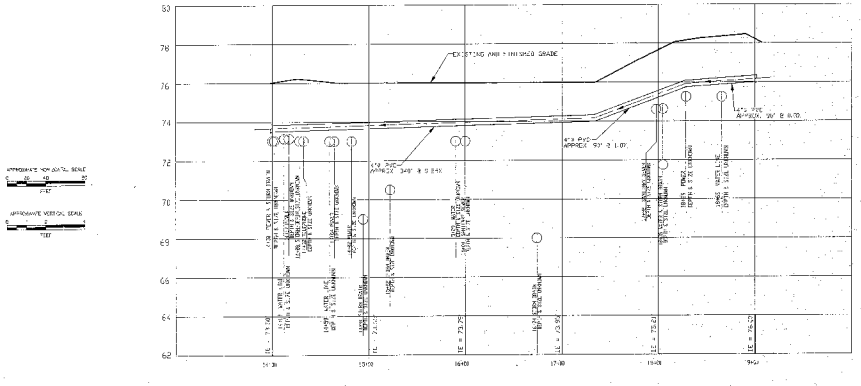
24X

NOTE:

The types, locations, sizes and/or depths of existing underground utilities as shown on this topographic survey were obtained from sources of varying reliability. The contractor is cautioned that only actual excavation will reveal the types, extent, sizes, locations and depths of such underground utilities. As reasonable effort has been made to locate and delineate all known underground utilities, however, the engineer can assume no responsibility for the completeness or accuracy of its delineation of such underground utilities which may be encountered, but which are not shown on these drawings.



GROUNDWATER PIPELINE PLAN
LINE A STATION 13+62.96 THROUGH STATION 19+20.00

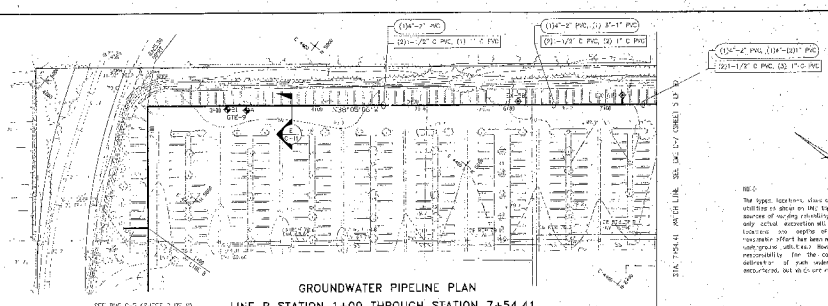


GROUNDWATER PIPELINE PROFILE
LINE A

APPROVED FOR CONSTRUCTION
JUN 13 1996
CITY OF MOUNTAIN VIEW, CALIF.

ISSUED FOR CONSTRUCTION DEC. 3/27/95 ISSUED FOR CONFIRMING DEC. 1/25/95	GROUNDWATER EXTRACTION AND TREATMENT SYSTEM GTE GTE GOVERNMENT SYSTEMS 100 FERGUSON DRIVE MOUNTAIN VIEW, CALIFF. 1964	Woodward-Clyde Consultants	DRAWN BY F. FIG. CAT. DESIG. NOT VERIFIED, IF THEN DRAWING IS NOT TO SCALE 1/26/96	CIVIL (SHEET 3 OF 8) GROUNDWATER PIPELINE PLAN AND PROFILE	C-5

24X



GROUNDWATER PIPELINE PLAN

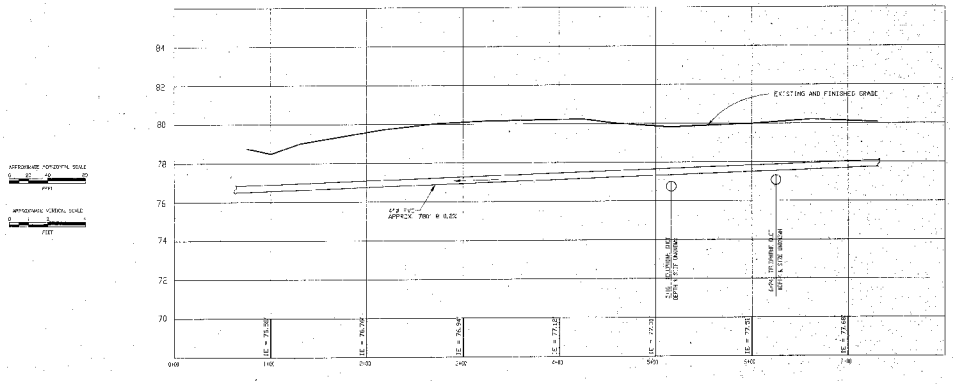
LINE B STATION 1+00 THROUGH STATION 7+54.41

SEE DWG C-5 (SHEET 3 OF 10)

SCALE IN FEET

NOTE:

The types, locations, sizes and/or depths of existing underground utilities as shown on this topographic survey were obtained from sources of varying reliability. The contractor is cautioned that only actual excavation will reveal the types, extent, sizes, locations and depths of such underground utilities. Its reasonable effort has been made to locate and delineate all known underground utilities. However, the engineer can assume no responsibility for the completeness or accuracy of its delineation of such underground utilities which may be encountered, but which are not shown on these drawings.



GROUNDWATER PIPELINE PROFILE

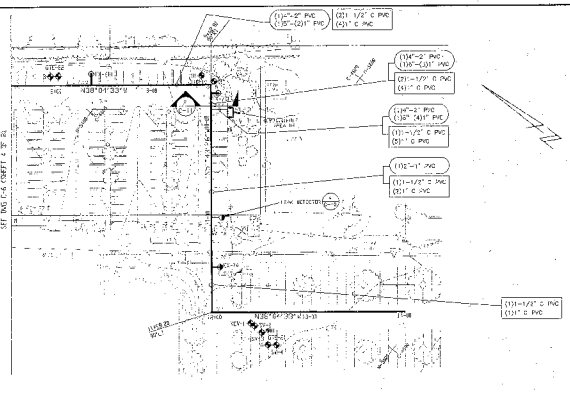
LINE B

APPROVED FOR CONSTRUCTION
JUN 18 1995
CITY OF MOUNTAIN VIEW, CALIF.
FOR

	GROUNDWATER EXTRACTION AND TREATMENT SYSTEM GTE GTE GOVERNMENT SYSTEMS 100 FERGUSON DRIVE MOUNTAIN VIEW, CALIFORNIA	Woodward-Clyde Consultants	WARNING IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE	CIVIL [SHEET 4 OF 8] GROUNDWATER PIPELINE PLAN AND PROFILE	C-6

24X

GROUNDWATER PIPELINE PLAN
LINE B STATION 7+54.41 THROUGH STATION 14+00.00

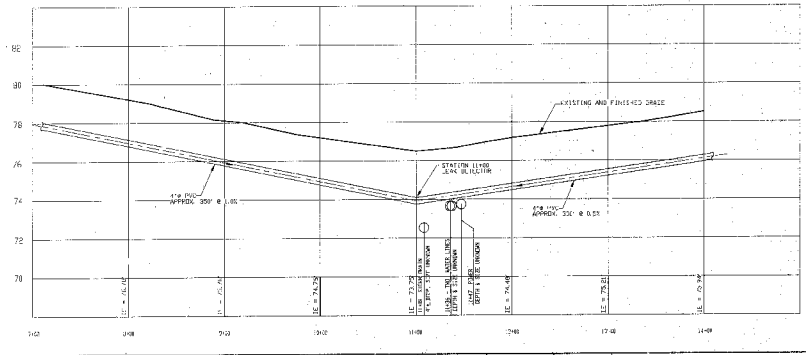


NOTE:
The types, locations, sizes and/or depths of existing underground utilities as shown on this topographic survey were obtained from sources of varying reliability. The contractor is cautioned that only actual excavation will reveal the types, extent, sizes, locations and depths of such underground utilities. (A reasonable effort has been made to locate and delineate all known underground utilities). However, the engineer can assume no responsibility for the completeness or accuracy of its delineation of such underground utilities which may be encountered, but which are not shown on these drawings.

GROUNDWATER PIPELINE PROFILE - LINE B

APPROXIMATE HORIZONTAL SCALE
0 20 40 80
FEET

APPROXIMATE VERTICAL SCALE
0 1 2 4
FEET



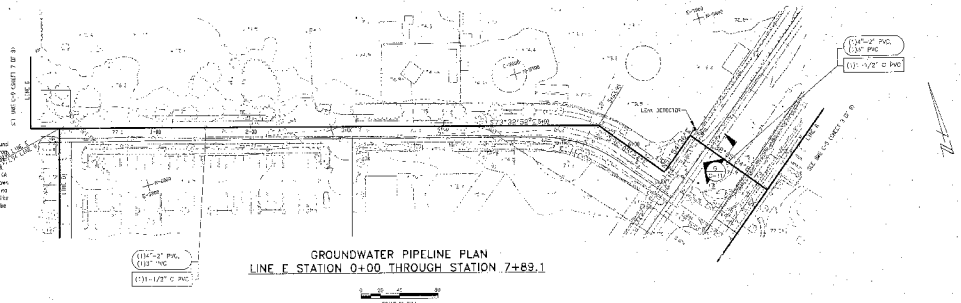
APPROVED FOR CONSTRUCTION
JUN 12 1995
CITY OF MOUNTAIN VIEW, CALIF.
BY

1	ISSUED FOR CONSTRUCTION	REV 1 3/27/95	GROUNDWATER EXTRACTION AND TREATMENT SYSTEM GTE GTE GOVERNMENT SYSTEMS 100 FERGUSON DRIVE MOUNTAIN VIEW, CALIFORNIA	Woodward-Clyde Consultants	WARNING IF THIS BAR FOLLOWS THIS NOTE, THEN DRAWING IS NOT TO SCALE
2	ISSUED FOR PERMITTING	REV 2 1/20/95			

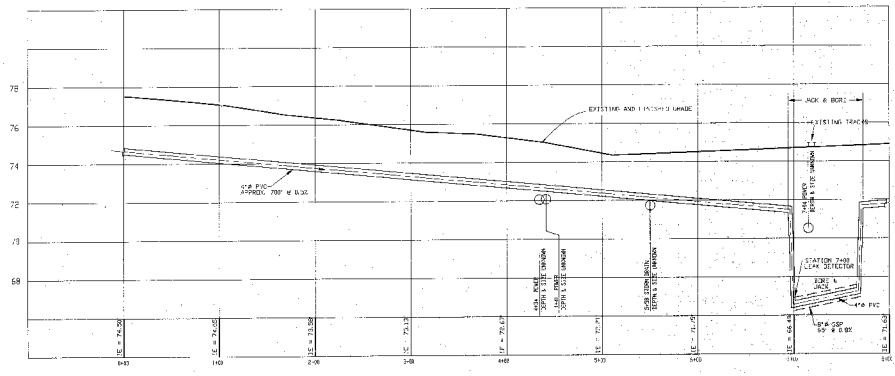
CIVIL (SHEET 5 OF 6)
GROUNDWATER PIPELINE PLAN AND PROFILE
C-7

NOTE:

The typical locations, sizes and/or depths of existing underground utilities as shown on this topographic survey were obtained from sources of varying reliability. The contractor is cautioned that only actual excavation will reveal the types, extent, sizes, locations and depths of such underground utilities. A reasonable effort has been made to locate and delineate all known underground utilities. However, the engineer can assume no responsibility for the completeness or accuracy of the delineation of such underground utilities which may be encountered, but which are not shown on these drawings.



GROUNDWATER PIPELINE PLAN
LINE E STATION 0+00 THROUGH STATION 7+89.1



GROUNDWATER PIPELINE PROFILE
LINE A

APPROVED FOR CONSTRUCTION
JUN 13 1995
CITY OF MOUNTAIN VIEW, CALIF.

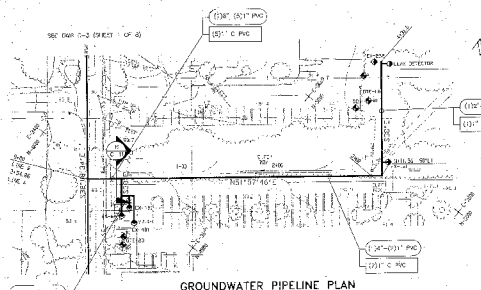
ISSUED FOR CONSTRUCTION	REJ	3/27/95	GROUNDWATER EXTRACTION AND TREATMENT SYSTEM GTE GOVERNMENT SYSTEMS 100 FERGUSON DRIVE MOUNTAIN VIEW, CALIFORNIA	Woodward-Clyde Consultants	IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE
ISSUED FOR REPORTING	REJ	1/26/95			

(SHEET 8 OF 8)

GROUNDWATER PIPELINE PLAN AND PROFILE

C-8

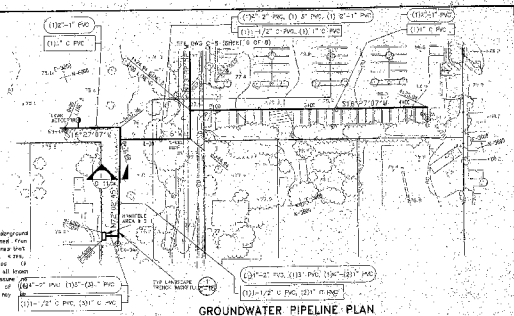
24X



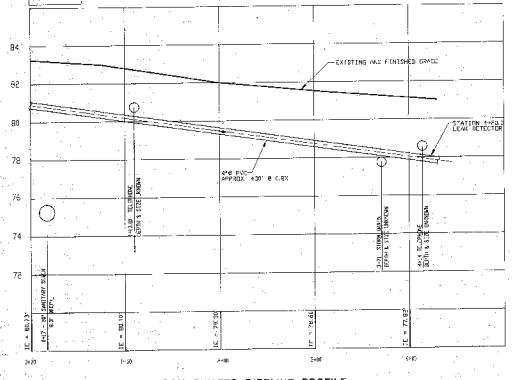
GROUNDWATER PIPELINE PLAN
LINE B STATION 0+00.00 THROUGH STATION 4+31.00

NOTE

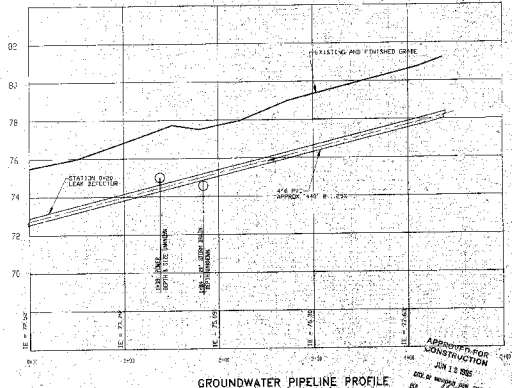
The types, locations, sizes and/or depths of existing underground utilities as shown on the topographic survey were obtained from sources of varying reliability. The contractor is cautioned that only actual excavation will reveal the types, extent, sizes, locations and depths of such underground utilities. A reasonable effort has been made to locate and delineate all known underground utilities. However, the engineer can assume no responsibility for the completeness or accuracy of the detection of such underground utilities which may encountered, but which are not shown on these drawings.



GROUNDWATER PIPELINE PLAN
LINE D STATION 0+00.00 THROUGH STATION 4+37.11



GROUNDWATER PIPELINE PROFILE
LINE B



GROUNDWATER PIPELINE PROFILE
LINE D

APPROVED FOR CONSTRUCTION
JUN 12 1995
CITY OF MOUNTAIN VIEW PUBLIC WORKS DEPT.
BY 775

REV	ISSUE FOR CONSTRUCTION	REV	3/27/95
	ISSUED FOR PERMITTING	REV	7/29/92
	ISSUED FOR REVIEW		

GROUNDWATER EXTRACTION AND TREATMENT SYSTEM
GTE
GTE GOVERNMENT SYSTEMS
100 FERGUSON DRIVE
MOUNTAIN VIEW, CALIFORNIA

Woodward-Clyde Consultants
Engineering and Environmental Consultants
1333 Broadway, Suite 1000, Oakland, CA 94612-1916
Tel (510) 874-3010 Fax (510) 839-1099

WARNING: 1 INCH BAR ON ORIGINAL DRAWING IS NOT TO SCALE

DRAWN	
DESIGN	
REVIEW	
APPROVED	
DATE	1/26/93

CAD

(SHEET 7 OF 8)

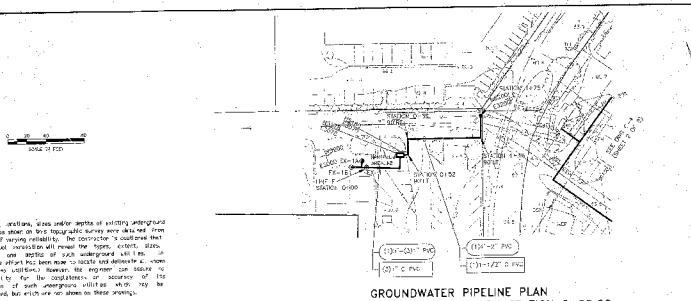
GROUNDWATER PIPELINE PLAN AND PROFILE

REVISION 1

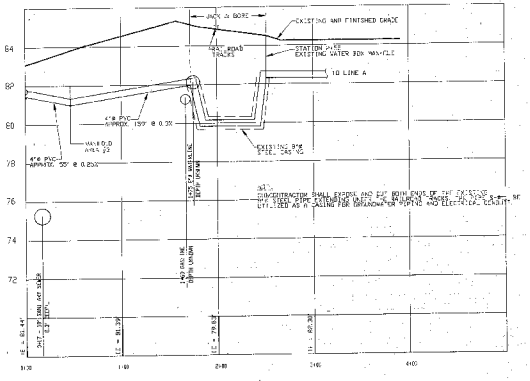
DRAWING NO. C-9

SCALE 1:4 SIZE 30"x20"

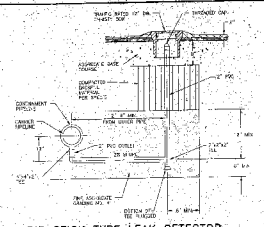
24X



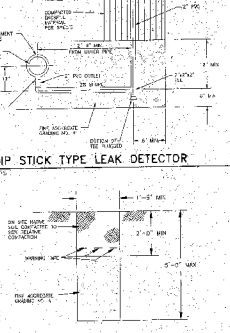
GROUNDWATER PIPELINE PLAN
LINE F STATION 0+00.00 THROUGH STATION 2+55.00



GROUNDWATER PIPELINE PROFILE
LINE F

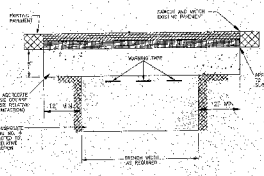


DIP STICK TYPE LEAK DETECTOR



TYPICAL PIPE TRENCH SECTION IN LANDSCAPED AREA

NOTE:
1. MATCH EXISTING CONTOURS TO SATISFY DRAINAGE.
2. SHALL TRENCH COVER SHALL MATCH EXISTING LANDSCAPE.
3. RESTORE ORIGINAL CONDITIONS OF LANDSCAPE.
4. EACH PIPE SHALL BE IDENTIFIED BY WELL NUMBER EVERY 20 FEET.
5. MATERIAL SHALL BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS.



APPROVED FOR CONSTRUCTION
JUN 1 2 1995
CITY OF MOUNTAIN VIEW, CALIF.
BY: KWYS

TYPICAL PAVEMENT REPAIR FOR TRENCHES

NOTE:
1. MATCH EXISTING GRADES AND SLOPES.
2. EACH PIPE SHALL BE IDENTIFIED BY WELL NUMBER EVERY 20 FEET.
3. MATERIAL SHALL BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS.

NOTE:
The types, locations, sizes and/or depths of existing underground utilities as shown on this topographic survey were obtained from sources of varying reliability. The contractor is cautioned that only actual excavation will reveal the types, extent, sizes, locations and depths of such underground utilities. A reasonable effort has been made to locate and delineate underground utilities. However, the engineer can assume no responsibility for the completeness or accuracy of the delineation of such underground utilities which may be encountered, but which are not shown on these drawings.

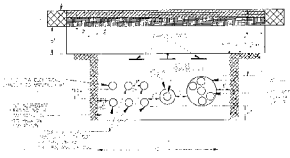
NOTE: CONSTRUCTION SHALL NOT COME WITHIN 15 FEET EXISTING RAILROAD TRACKS.

ISSUED FOR CONSTRUCTION	REV. 3/27/95	GROUNDWATER EXTRACTION AND TREATMENT SYSTEM GTE GTE GOVERNMENT SYSTEMS 100 FERGUSON DRIVE MOUNTAIN VIEW, CALIFORNIA	Woodward-Clyde Consultants Engineering & Environmental Consultants 20 Iron Point Circle, Suite 100 Sacramento, CA 95815	WARNING IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING IS NOT TO SCALE	(5-SHEET 6 OF 8) GROUNDWATER PIPELINE PLAN AND PROFILE
ISSUED FOR REVIEW	REV. 1/26/95				

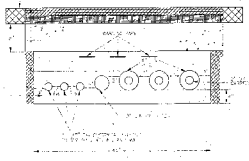
DATE 1/26/95 · DRAWN BC · CHKD FC · APPD ASR · PROJ. MGR. · DSGN · DRN · CHK · APPD · DATE 1/26/95

PROJECT 94T1104 · DRAWING C-10 · SHEET 12 OF 20

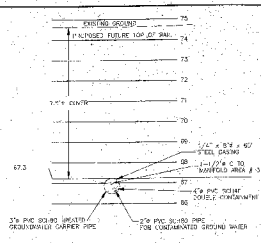
24X



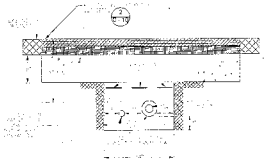
TRENCH SECTION



TRENCH SECTION



SECTION – S.P.R.R. CROSSING NO. 1



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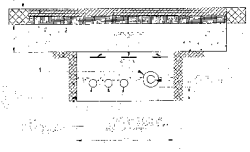
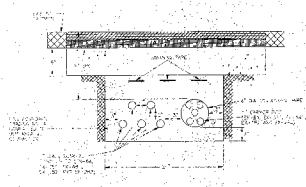


TRENCH SECTION



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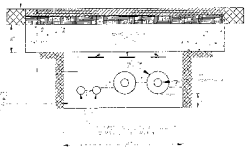

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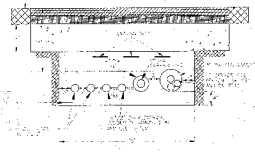
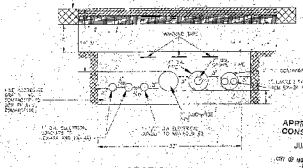


TRENCH SECTION



APPROVED FOR CONSTRUCTION
JUN 12 1995

TRENCH SECTION

ISSUED FOR CONSTRUCTION	REJ	3/27/95
ISSUED FOR REVIEW	REJ	1/3 95

GROUNDWATER EXTRACTION AND TREATMENT SYSTEM
GTE

Woodward-Clyde Consultants

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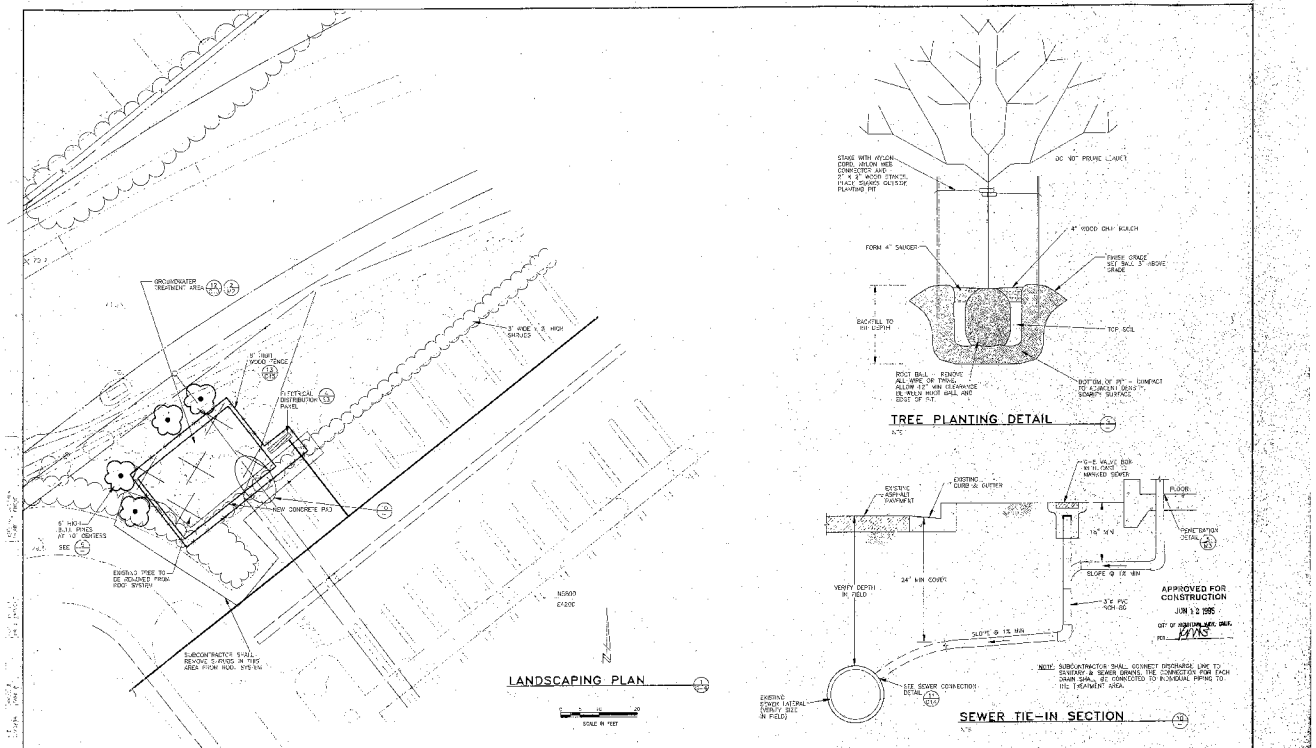
DESIGNED REJ
DRAWN EC
CHECKED AJA
DATE 1/23/95

CHK.

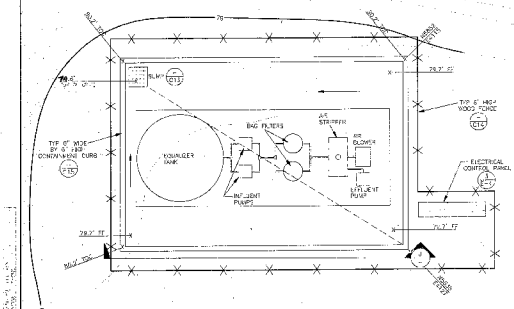
TRENCH SECTIONS

REVISION
PROJECT 94.14.NA
DRAWING C-11
SHEET 15 OF 29

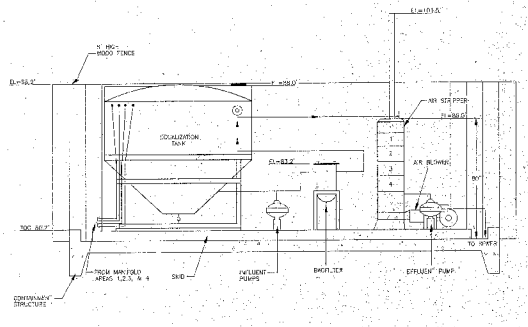
24X


GROUNDWATER TREATMENT AREA
5' OPAQUE WOOD FENCE
TYPICAL DISTRIBUTION PANEL
3' WIDE X 3' HIGH SHRUBS
NEW CONCRETE PAD
5' WIDE BUILT WINDS AT 10' CENTERS
SEE
EXISTING TREE TO BE REMOVED FROM ROOF SYSTEM
SUBCONTRACTOR SHALL REMOVE 5 YARDS IN THIS AREA FROM ROOF SYSTEM
N5800
E4200
LANDSCAPING PLAN
SCALE IN FEET
STAKE WITH VEGETABLE CORD, NYLON WEB CONNECTORS AND 2" X 2" WOOD STAKE. PLACE STAKES OUTSIDE PLANTING PIT
DC 10" PRUNE LIMBS
4" WOOD CHIP MULCH
FORM 4" SAUCER
PAVED GRADE SET BALL 2" ABOVE GRADE
BACKFILL TO PIT DEPTH
TOP SOIL
ROOT BALL - REMOVE ALL WIRE OR TWINE. ALLOW 12" MIN CLEARANCE BETWEEN WIRE BASKET AND EDGE OF PIT
BOTTOM 18" OF PIT - COMPACT TO CONCRETE DENSITY SOIL SURFACE
TREE PLANTING DETAIL
EXISTING ASPHALT PAVEMENT
EXISTING CURB & GUTTER
G-E VALVE BOX METALCAST MARVELED SEWER
PLUGS
PENETRATION DETAIL
18" MIN
SLOPE @ 1% MIN
24" MIN COVER
VERIFY DEPTH IN FIELD
3" PVC SCH 80
SLOPE @ 1% MIN
EXISTING SEWER LATERAL VERIFY SIZE IN FIELD
SITE SEWER CONNECTION DETAIL
NOTE: SUBCONTRACTOR SHALL CONNECT DISCHARGE LINE TO SANITARY & SEWER DRAINS. THE CONNECTION FOR EACH DRAIN SHALL BE CONNECTED TO INDIVIDUAL PIPING TO THE TREATMENT AREA.
SEWER TIE-IN SECTION
APPROVED FOR CONSTRUCTION
JUN 12 1995
CITY OF MOUNTAIN VIEW, DEV. DEV.
PER
REVISIONS
ISSUED FOR CONSTRUCTION
ISSUED FOR REVISIONS
REV. DATE
GROUNDWATER EXTRACTION AND TREATMENT SYSTEM
GTE
GTE GOVERNMENT SYSTEMS
100 FERGUSON DRIVE
MOUNTAIN VIEW, CALIFORNIA
Woodward-Clyde Consultants
WARNING
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE
LANDSCAPING PLAN AND SEWER TIE-IN DETAIL TREATMENT AREA
DRAWING C-12
SHEET 18 OF 22

24X



GROUNDWATER TREATMENT COMPOUND GRADING AND CONCRETE SLAB ELEVATION



TREATMENT AREA ELEVATION

NOTES:
1. → INDICATES 1/8"/FT (MIN) TOWARDS SUMP
2. SLAB FINISH TO BE AS DETAILED IN SPECIFICATIONS
3. SLAB WITH CONTAINMENT CURB SHALL BE POURED CONTINUOUSLY

APPROVED FOR CONSTRUCTION
JUN 13 1995
CITY OF MOUNTAIN VIEW, CALIF.
BY: KTS

4		
3		
2	ISSUED FOR CONSTRUCTION	BJ 3/27/95
1	ISSUED FOR PERMITTING	BJ 1/20/95
NO.	DESCRIPTION	BY

GROUNDWATER EXTRACTION AND TREATMENT SYSTEM
GTS
CTE GOVERNMENT SYSTEMS
100 FERGUSON DRIVE
MOUNTAIN VIEW, CALIFORNIA

Woodward-Clyde Consultants
Environmental Services
38 Technology Drive, Irvine, California 92718

NO SCALE
IF THIS BAR DOES NOT MEASURE THEN DRAWING IS NOT TO SCALE

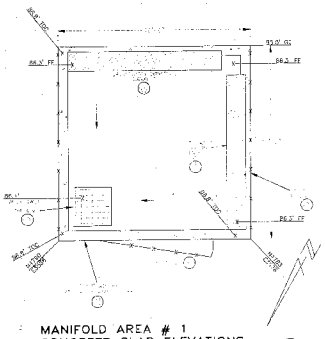
DRAWN: MLS
CHKD: LC
ENGINEER: MJB
PROJ. MGR.: [illegible]
PROJ. ENGINEER: [illegible]
DATE: 1/20/95

CIVIL

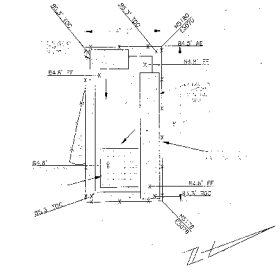
TREATMENT AREA GRADING AND LAYOUT

JOB NO.: 95171170
SCALE: [illegible]
DWG. NO.: C-13
SHEET 17 OF 24

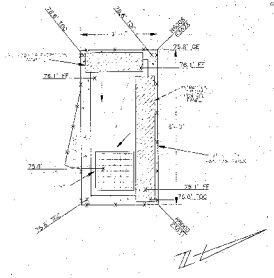
24X



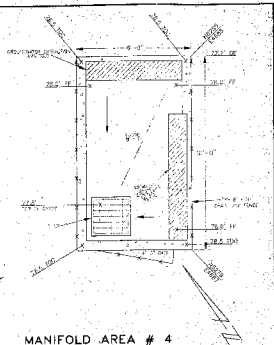
MANIFOLD AREA # 1
CONCRETE SLAB ELEVATIONS



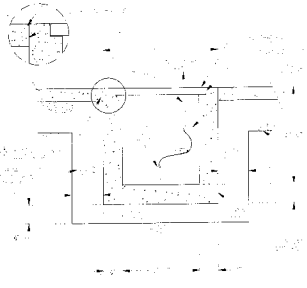
MANIFOLD AREA # 2
CONCRETE SLAB ELEVATIONS



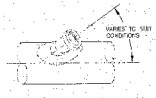
MANIFOLD AREA # 3
CONCRETE SLAB ELEVATIONS



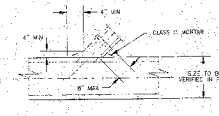
MANIFOLD AREA # 4
CONCRETE SLAB ELEVATIONS



SUMP DETAIL



PLAN



SECTION

SANITARY SEWER CONNECTION

NOTES

1. → INDICATES 1/8"/FT (1%) TOWARDS SUMP.
2. SLAB FINISH TO BE AS DEFINED IN THE SPECIFICATIONS.
3. APPROVAL BY ENGINEER IS REQUIRED FOR PLACING JOINT (NOT SHOWN ON DWG C-14).
4. SLAB WITH CONTINUOUS CURB SHALL BE POURED CONTINUOUSLY.
5. SEE SPECIFICATIONS FOR STRUCTURAL DESIGN OF PRECAST SUMP HOUSING.

NOTES

1. THE MINIMUM OPENING INTO THE EXISTING STORM DRAIN SHALL BE THE OUTSIDE DIAMETER OF THE CONNECTING PIPE (NTS 1).
2. CONNECTION PIPES SHALL BE NOT MORE THAN 5" ABOVE THE INVERT.
3. CONNECTOR PIPES SHALL ENTER MAIN LINE WITH RADIALLY.
4. SADDLE CONNECTIONS SHALL BE USED WHEN CONNECTING TO PIPES 24" OR LESS IN DIAMETER WITHOUT THE USE OF JUNCTION STRUCTURES OR PRECAST T-PRINCIPLES.
5. TRIM OR CUT SADDLE TO FIT SNUGLY OVER THE OUTSIDE OF THE MAIN PIPE SO ITS AXIS WILL BE ON THE LINE AND GRADE OF THE CONNECTING PIPE.
6. THE OPENING INTO THE MAIN SHALL BE CUT AND TRIMMED TO FIT THE SADDLE SO THAT NO FAULT WILL PROJECT WITHIN THE BORE OF THE SADDLE PIPE.

APPROVED FOR CONSTRUCTION
JUN 13 1995
CITY OF MOUNTAIN VIEW, DEPT. OF PUBLIC WORKS
BY [illegible]
NO.

REV.	DESCRIPTION	DATE
2	ISSUED FOR CONSTRUCTION	5/17/95
1	ISSUED FOR PERMITTING	1/23/95

GROUNDWATER EXTRACTION AND TREATMENT SYSTEM
GTE
GTE GOVERNMENT SYSTEMS
100 FERGUSON DRIVE
MOUNTAIN VIEW, CALIFORNIA

Woodward-Clyde Consultants

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DR. [illegible]
CHKD. [illegible]
APPROVED [illegible]
DATE 1/23/95

MANIFOLD AREA AND SEWER CONNECTION

PROJECT 95-0-1176
DRAWING C-14
S-EET 18 OF 39

24X

STRUCTURAL CALCULATIONS
FOR A 33' x 57' x 10' HIGH
SHIELDED ROOM

APPROVED FOR CONSTRUCTION
JAN 17 1990
CITY OF MOUNTAIN VIEW
BUILDING INSPECTION DIV.
PER

G.T.E.
MOUNTAIN VIEW, CA

MANUFACTURER
LECTRO MAGNETICS INC.
6056 W. JEFFERSON BLVD
L.A., CA. 90016

BY

STRUCTURAL ENGR. S-1608
ORVILLE B. PAULSON
112 W. BENNETT AV.
GLENDORA, CA. 91740

JAN. 11, '89

DESIGN CRITERIA

SCOPE: STRUCTURAL DESIGN & CALCULATIONS FOR A SHIELDED ROOM TO BE PLACED IN AN EXSTG. BLDG.

CEILING L.L. = 10 PSF

WALL LAT. LOAD = 5 PSF

SEISMIC DESIGN ZONE 4 ZERO
V = 2 I K (CS) W = 1.33 x 0.14 W = 0.186 W

SPECIAL LOADS: NONE

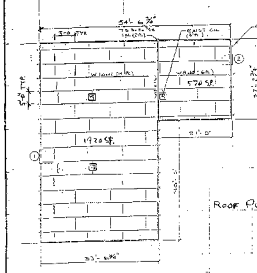
MATERIALS
STRUCTURAL STEEL ASTM A-36
SHEET STEEL ASTM KR.A569
TUBE STEEL A500 GR. B Fy = 46 ksi

CONCEPT: 14 GA. STEEL PL STRUCTURAL MEMBERS @ 48" o.c.

ANECHOIC: NONE

BLDG. LOADS

CLG. DL	14 GA. STEEL .075 x 12 x 3.4	= 3.1 PSF
	STEEL BMS @ 4' o.c. 12/4	= 3.0
	STEEL TUBE BMS @ 48" o.c.	= 1.1
	CLG. & MISC.	= 2.8
		TDL = 10.0 PSF
WALL	14 GA. STEEL	= 3.1 PSF
	COLS @ 48" o.c.	= 1.4 "
	TUBES @ 48" o.c.	= 1.1 "
	MISC.	= 2.4 "
		TDL = 8.0
FLOOR	14 GA. STEEL	3.1 PSF
	4" CONC.	50.0 "
	MISC.	6.9 "
		TDL = 60.0 PSF



ROOF PLAN

BMS. SPAN 33'-2" SPACING 4' o.c. W10X12 L = 50.0' MAX.

$w = (10+10)5 = 100$ PLF

$M = \frac{1}{8}(100)\,33.2^2 = 13{,}780$ '#

$f_b = \frac{13.78 \times 12}{10.7} = 15.2$ ksi

$F_b = \frac{12{,}000}{60\,(11.9)} = 16.8$ ksi O.K.

PAULSON ENGINEERING
ORVILLE B. PAULSON
Registered Structural Engineer S1984
110 West Barnett No. 8
Shasta, CA 96140
Tel. (916) 243-3510

JOB LMI / GTE
SHEET NO. 4 OF
CALCULATED BY OBP DATE 12/7/89
CHECKED BY DATE

SM. SPAN 21' SPCG @ 5' O.C. W8 X 10 L_U = 5' MAX.

$w = (10 + 10)5 = 100$ PLF

$M = \frac{1}{8}(100)\overline{21}^2 = 5{,}500$ 'lb

$f_b = \frac{5.5 \times 12}{7.27} = 9.5$ ksi

$F_b = \frac{12000}{(60)\ 3.77} = 20.5$ ksi O.K.

INTERMEDIATE BMS. 2 X 2 X 1/8 SMAL 5' SPCG @ 5'

$w = (10 + 10)5 = 100$ PLF $F_b = 46$ ksi

$M = \frac{1}{8}(100)\overline{5}^2 = 310$ 'lb

$f_b = \frac{.310 \times 12}{0.67} = 5.6$ ksi

$F_b = .46 \times 66 = 30.4$ ksi OK.

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SHEET NO. 5 OF
CALCULATED BY OBP DATE 12/7/89
CHECKED BY DATE

VERT. GL. 2" X 2" X 1/8" HGHT. 10'-0"

$P_{TL} = \cancel{1500}\ 1750 + 8 \times 2.5 = 1950$ lbs

$P_{DL} = 550 + 200 = 1650$ lbs

AXIAL

$f_a = \frac{1650}{1.07} = 1570$ psi

$KL/r = 120/0.726 = 165$ $F_a = 5.49$ ksi

BENDING, LAT. 5 PSF

$M = \frac{1}{8}(5)\overline{10}^2 = 310$ 'lb

$f_b = \frac{310 \times 12}{0.667} = 5600$ psi $F_b = 0.66(46) = 30.4$ ksi

DL + LAT. LD. 1.33

$\frac{1.65 \times 1570}{5.49} + \frac{5600}{30.4} = 0.335 < 1.0$ OK

PAULSON ENGINEERING
ORVILLE B. PAULSON
Registered Structural Engineer S1984
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Shasta, CA 96140
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JOB LMI / GTE
SHEET NO. 6 OF
CALCULATED BY OBP DATE 12/7/89
CHECKED BY DATE

SEISMIC STOPPER ∠S

TOL ROOF 2500 X 10 = 25000 lbs
WALLS 2240 X 8 = 18000 lb
FLOOR 2500 X 60 = 150000 lb
TOL = 173,000 lbs

$V_S = 173 \times 0.186 = 32$ k 16 k/HALF

USE 1" ϕ x 1/2" HILTI KWIK-BOLT CAR = 22 k

3/CORNER

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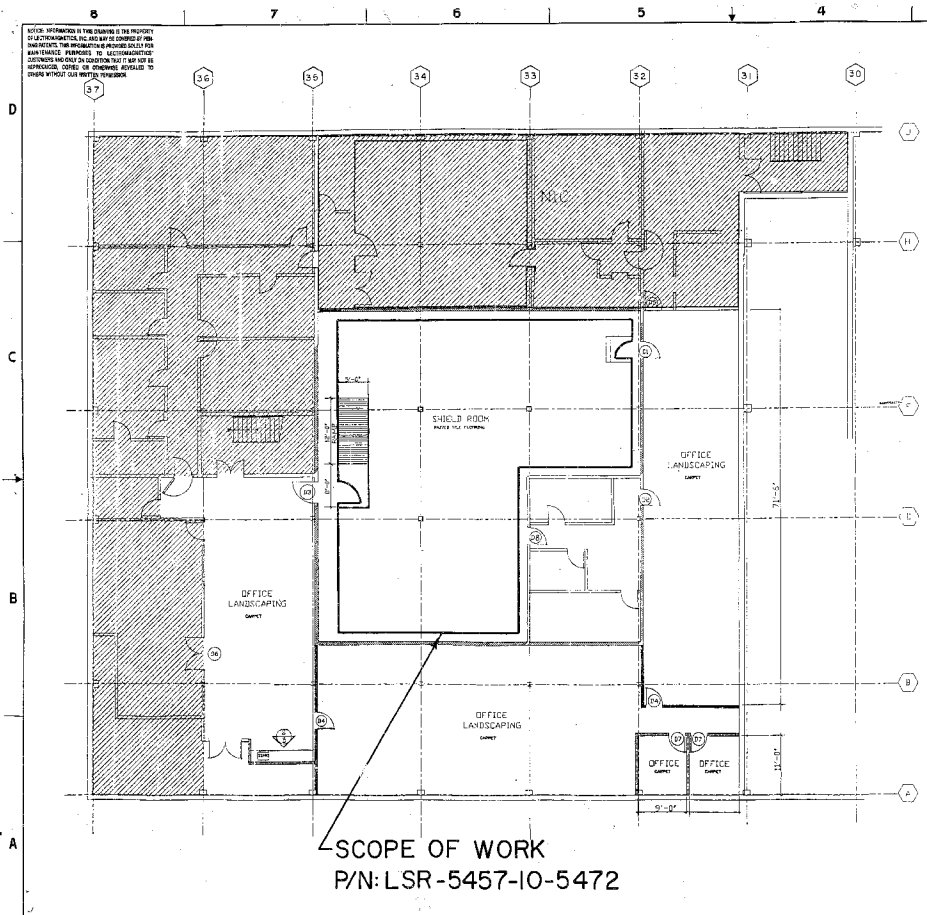
ZONE	REV	REVISIONS DESCRIPTION	DATE	APPROVED



ABBREVIATIONS

@	AT
∠	ANGLE
AB	ANCHOR BOLT
AFF	ABOVE FINISH FLOOR
ALUM	ALUMINUM
APPROX	APPROXIMATE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATLS
AWS	AMERICAN WELDING SOCIETY
BM	BEAM
BLDG	BUILDING
BRKT	BRACKET
℄	CENTER LINE
CLG	CEILING
COL	COLUMN
C.O.	CLEAR OPENING
CONC	CONCRETE
CTSK	COUNTER SUNK
DET (DET'L)	DETAIL
DIAG	DIAGONAL
DIA	DIAMETER
DIM	DIMENSION
DO	DITTO
DR	DOOR
DWG	DRAWING
E	EAST
EA	EACH
ELEV	ELEVATION
EQ (EQL)	EQUAL
EQPT	EQUIPMENT
EXIST	EXISTING
EXT	EXTERIOR
FH	PULL HEIGHT
FIN (FNSH)	FINISH
FL	FLOOR
FLUOR	FLUORESCENT
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOS	FACE OF STUDS
FT	FOOT OR FEET
FTG	FOOTING
GA	GAUGE
GND	GROUND
GR	GRADE
HORIZ	HORIZONTAL
H.R.S.	HOT ROLLED STEEL
HT (HGT)	HEIGHT
ID	INSIDE DIAMETER
IN	INCH
INFO	INFORMATION
INT (INTR)	INTERIOR
LT	LIGHT
MATL	MATERIAL
MAX	MAXIMUM
MIN	MINIMUM
MISC	MISCELLANEOUS
N	NORTH
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
O.C.	ON CENTER
OD	OUTSIDE DIAMETER
OPNG	OPENING
OPNG	OPENING
OPP	OPPOSITE
PL	PLATE
PLYWD	PLYWOOD
QTY	QUANTITY
RAD	RADIUS
REF	REFERENCE
REC	RECESSED
REQ	REQUIRED
RM	ROOM
S	SOUTH
SCHED	SCHEDULE
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SPEC	SPECIFICATION
SQ	SQUARE
STD	STANDARD
STL	STEEL
STR (STRUCT)	STRUCTURAL
SUSP	SUSPENDED
SYM (SYMM)	SYMMETRICAL
SYST	SYSTEM
T&B	TOP AND BOTTOM
THK	THICK
TOC	TOP OF CONCRETE
TOS	TOP OF STEEL
TRD (T)	TREAD
TYP	TYPICAL
UOS	UNLESS OTHERWISE SPECIFIED
VERT	VERTICAL
W/	WITH
W/O	WITHOUT
W	WEST
WT	WEIGTH

APPROVED FOR CONSTRUCTION
JAN 17 1990
CITY OF MOUNTAIN VIEW
PERMIT CONSTRUCTION DIV.

REF.	QTY.	PART NUMBER	DESCRIPTION / MATERIAL	SPECIFICATIONS / VENDOR / NOTES	ZONE	IND NO.

	SIGNATURES	DATE
DRAWN	JIAN	10-31-89
CHECK		10
APPROVED		10
MANUFACTURING APPROVAL		

UNLESS OTHERWISE SPECIFIED
TOLERANCES
DECIMALS ±.01 .XXX=.010
FRACTIONS ±
ANGLES ±1°

5472 — HEAD NEXT ASSEMBLY — PROJECT NO.

LectroMagnetics Inc.
6934 West Jefferson Blvd., Los Angeles, California 90066 (213) 870-8383

GTE
MOUNTAIN VIEW, CA.
FLOOR PLAN

CODE IDENT. NO. 29098 | SIZE D | LSR-5457-10-5472 | REV.
SCALE NONE | SHEET A

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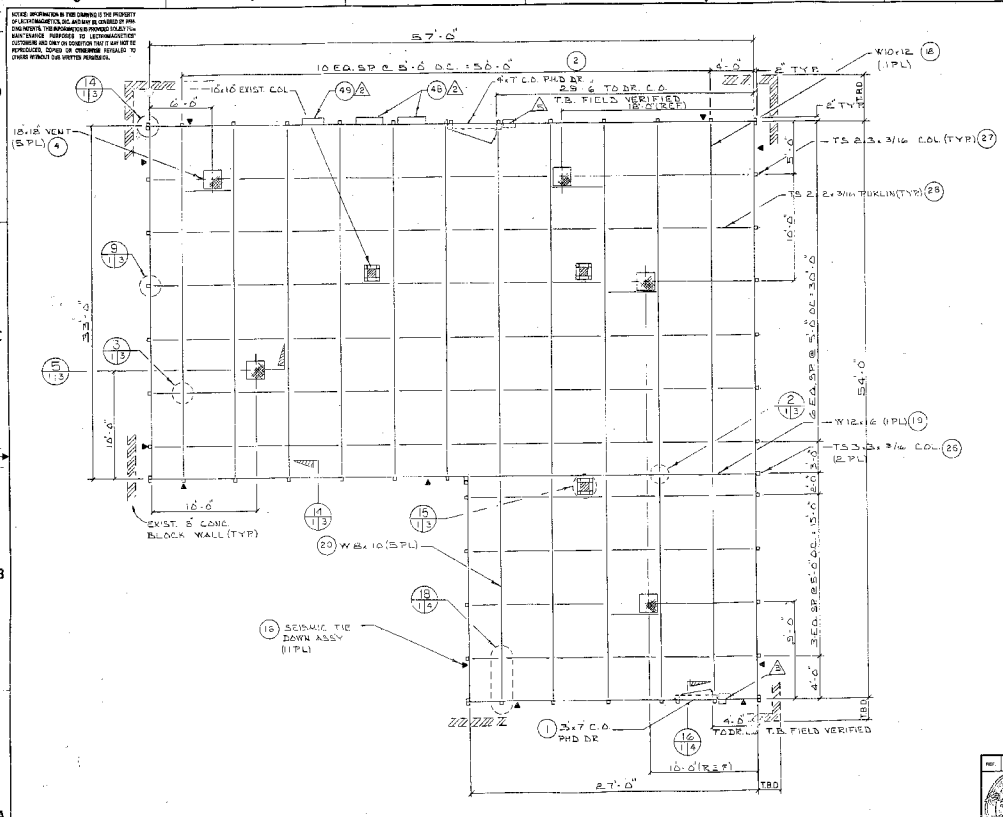

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED

SYMBOLS

SECTION IDENTIFICATION — SHEET WHERE SECTION IS DRAWN — SHEET WHERE SECTION IS TAKEN — SECTION

DETAIL IDENTIFICATION — DETAIL TITLE — SHEET WHERE DETAIL IS TAKEN — OR — DASH INDICATES STANDARD DETAIL — SHEET WHERE DETAIL IS DRAWN — DETAIL

NOTES: (U.O.S.)

1. LMI WILL SUPPLY AND INSTALL COMPLETE ENCLOSURE AS SHOWN.
2. ITEMS TO BE FIELD LOCATED, IF DIMENSIONS ARE SHOWN THEY ARE FOR REFERENCE ONLY.
3. ALL STRUCTURAL STEEL TO BE PRIMED PAINTED.
4. ALL DIELECTRIC CONNECTORS FOR PIPES, CONDUITS AND DUCT WORK TO BE DONE BY OTHERS.
5. CUSTOMER (OR OTHERS) TO SUPPLY THIS AREA WITH SHOP AIR. 110 PSI. MAX, 60 PSI. MIN. AND WITH 1/4" NPT. FITTING.

APPROVED FOR CONSTRUCTION
JAN 17 1990
CITY OF MOUNTAIN VIEW
BUILDING INSPECTION DIV.

REV.	QTY	PART NUMBER	DESCRIPTION / MATERIAL	SPECIFICATIONS / VENDOR / NOTES	ZONE	PART NO.

SIGNATURES	DATE
DRAWN	12/15/89
CHECK	1/5/90
APPROVED	1/5/90
APPROVED	

UNLESS OTHERWISE SPECIFIED
TOLERANCES
DECIMALS ±0.01 ±0.005 ±0.010
FRACTIONS ±1/64
ANGLES ±1°

LectroMagnetics Inc.
4224 West Jefferson Blvd., Los Angeles, California 90016 (213) 870-5080

GTE
MOUNTAIN VIEW, CA.
PLAN VIEW

TOOL REF. NO. 29098 | SIZE D | LSR-5457-10-5472 | REV

SCALE 1/4 = 1'-0" | SHEET

5470

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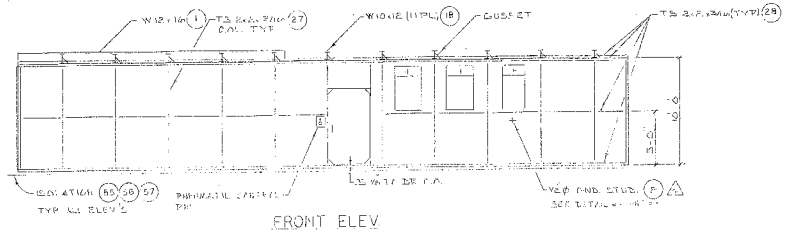
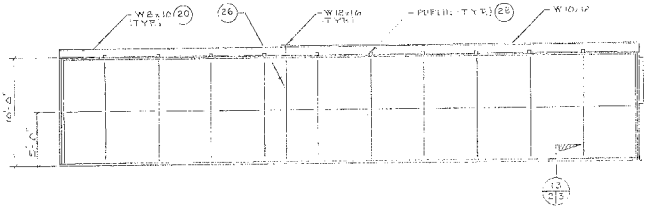
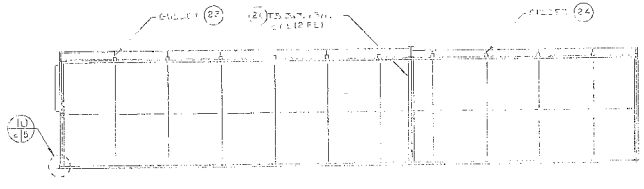
REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED



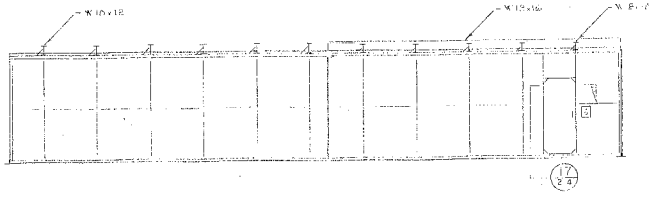
FRONT ELEV



LEFT ELEV.



RIGHT ELEV.



REAR ELEV

APPROVED FOR CONSTRUCTION
JAN 17 1980
CITY OF MOUNTAIN VIEW
BUILDING INSPECTION DIV.
PER

REV.	QTY.	PART NO./NOMI	DESCRIPTION / MATERIAL	SPECIFICATIONS / VENDOR / MODEL	ZONE	FIND NO.

SIGNATURES	DATE
DRAWN	
CHECKED	
APPROVED	
APPROVED	

UNLESS OTHERWISE SPECIFIED
TOLERANCES
FRACTIONS ±1/32 DEC. ±.005
ANGLES ±1°
MATERIAL
FINISH

LectroMagnetics Inc.
9555 West Jefferson Blvd. Los Angeles, California 90016 (213) 870-2383

GTE
MOUNTAIN VIEW, CA.
ELEVATIONS

DESIGN DWG. NO.	SIZE	REV
29098	D	LSR-5457-10-5472

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

REVISED	DATE	ACTIVITY	PROJECT NO.
			5472

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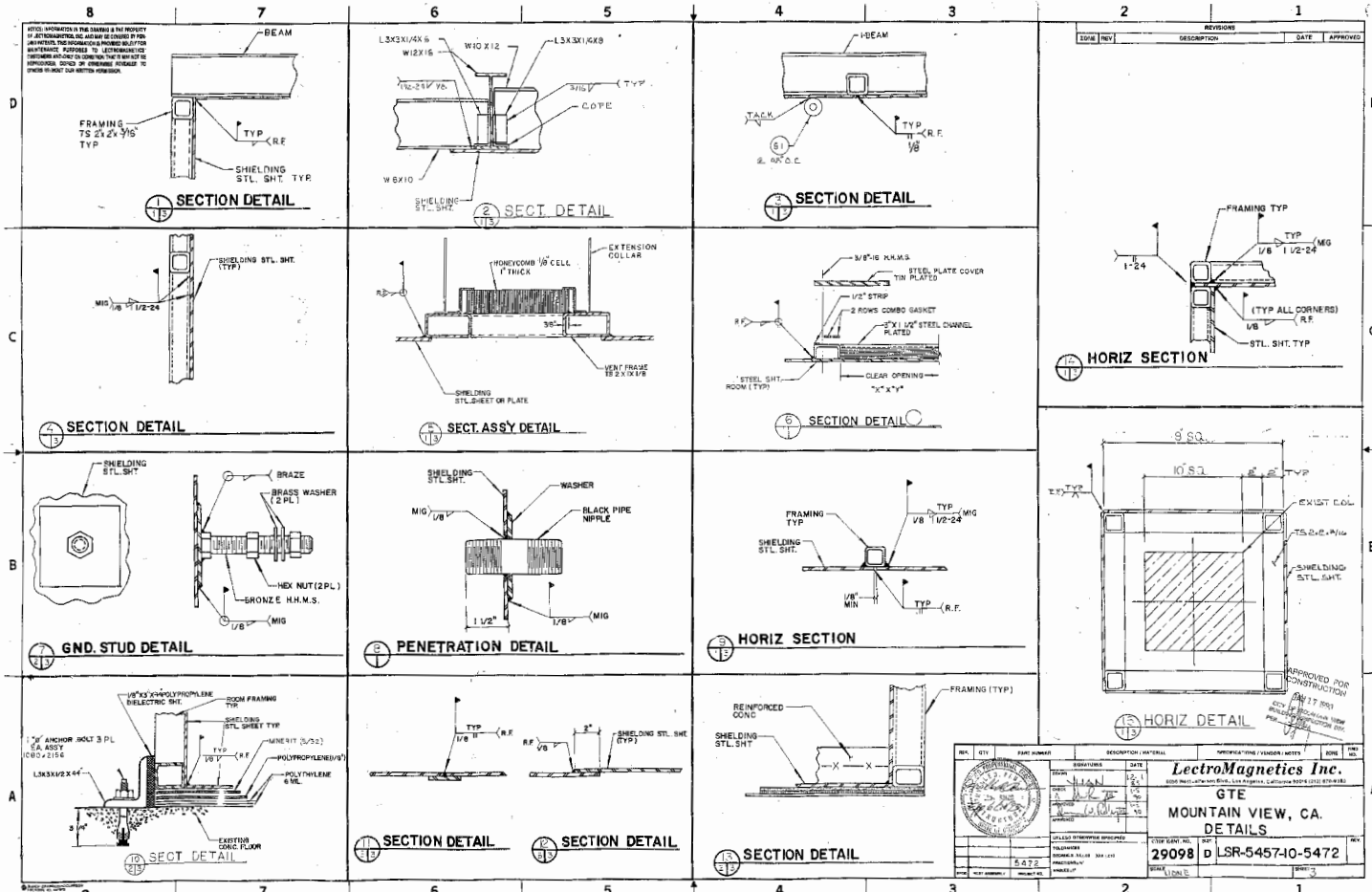


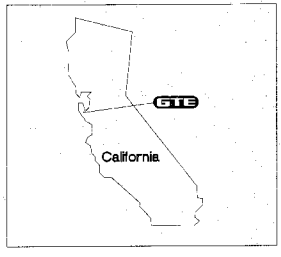
GTE FACILITY
GROUNDWATER EXTRACTION AND TREATMENT SYSTEM
Mountain View, California

THESE PLANS NOT PLAN CHECKED FOR COMPLIANCE WITH:
THE FEDERAL AMERICANS WITH DISABLITIES ACT
THE FEDERAL FAIR HOUSING ACT

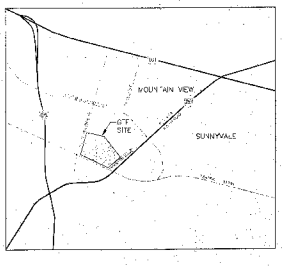
APPROVAL RECOMMENDED BY: _____ DATE: _____
APPROVED BY: _____ DATE: _____

DRAWING INDEX

DRAWING NO.		SHEET NO
GENERAL		
G-1	COVER SHEET (TITLE, MAPS, DRAWING INDEX, & CONTACTS)	1 OF 29
G-2	ABBREVIATIONS (GENERAL, CIVIL, STRUCTURAL, ARCHITECTURAL, & MECHANICAL)	2 OF 29
G-3	REFERENCE AND IDENTIFICATION SYSTEMS	3 OF 29
G-4	SITE PLAN	4 OF 29
CIVIL		
C-1	CIVIL SYMBOLS, LINETYPES, AND GENERAL NOTES	5 OF 29
C-2	GROUNDWATER EXTRACTION PIPELINE PLAN (KEY MAP)	6 OF 29
C-3	GROUNDWATER PIPELINE PLAN AND PROFILE	7 OF 29
C-4	GROUNDWATER PIPELINE PLAN AND PROFILE	8 OF 29
C-5	GROUNDWATER PIPELINE PLAN AND PROFILE	9 OF 29
C-6	GROUNDWATER PIPELINE PLAN AND PROFILE	10 OF 29
C-7	GROUNDWATER PIPELINE PLAN AND PROFILE	11 OF 29
C-8	GROUNDWATER PIPELINE PLAN AND PROFILE	12 OF 29
C-9	GROUNDWATER PIPELINE PLAN AND PROFILE	13 OF 29
C-10	GROUNDWATER PIPELINE PLAN AND PROFILE	14 OF 29
C-11	TRENCH SECTIONS	15 OF 29
C-12	LANDSCAPING PLAN AND SEWER TIE-IN DETAIL	16 OF 29
C-13	TREATMENT AREA GRADING AND LAYOUT	17 OF 29
C-14	MANIFOLD AREA AND SEWER CONNECTION	18 OF 29
C-15	FENCE DETAILS	19 OF 29
C-16	CONCRETE WORK DETAIL	20 OF 29
C-17	SECTIONS AND SCHEDULES	21 OF 29
MECHANICAL		
M-1	MECHANICAL AND PIPING SYMBOLS	22 OF 29
M-2	PIPING ISOMETRICS AND DETAILS	23 OF 29
M-3	MECHANICAL DETAILS	24 OF 29
ELECTRICAL		
E-1	ELECTRICAL AND INSTRUMENTATION SYMBOLS, ABBREVIATIONS, AND LEGEND	25 OF 29
E-2	SINGLE LINE DIAGRAM	26 OF 29
E-3	PANEL LAYOUT AND DETAILS	27 OF 29
PROCESS		
P-1	PROCESS AND INSTRUMENTATION SYMBOLS, ELEMENTS, AND LEGEND	28 OF 29
P-2	PROCESS & INSTRUMENTATION DIAGRAM	29 OF 29



VICINITY MAP
NOT TO SCALE



LOCATION MAP
NOT TO SCALE

ENGINEER/CONTRACTOR:

WOODWARD-CLYDE CONSULTANTS
55 SOUTH MARKET STREET
SUITE 1650
SAN JOSE, CALIFORNIA
(408) 297-9585

PRIMARY CONTACT: RASMI EL-JURF
SECONDARY CONTACT: MICHAEL MCGUIRE, P.E.

ALL CONSTRUCTION SHALL COMPLY WITH THE 1985 EDITION OF UBC, UPC, AND UMC. 1980 EDITION OF NEC AND CITY OF MTN. VIEW SECURITY ORDINANCE ATTACHED.

OWNER:

GTE GOVERNMENT SYSTEMS CORPORATION
100 FERGUSON DRIVE
MOUNTAIN VIEW, CALIFORNIA

PRIMARY CONTACT: STEVE HOCHSTADT, P.E.

HAZ-MAT INSPECTION REQUIRED PRIOR TO BLDG. INSPECT. FINAL.

CONTRACTOR MUST BE PRESENT AT TIME OF FINAL INSPECTION.

APPROVED FOR CONSTRUCTION
JUN 12 1985
CITY OF MOUNTAIN VIEW, CALIF.
BY: [illegible]

RECEIVED
APR 26 1985
PLAN CHECK

Public Works

SUBMITTED: [illegible] DATE 4/12/85
APPROVED: [illegible] 4-12-85
APPROVED: [illegible] 4/12/85

REVISION
PROJECT: 84-14104
DRAWING: G-1
SHEET OF 29

24X

A, ANCH	Anchor
AB	Anchor Bolt
AC	Air Closet
ACT	Acoustic Ceiling Tile
ACU	Air-Conditioning Unit
ACCUM	Accumulator
AD	Air Dryer
ADD'L	Additional
ADJ	Adjustable
AFF	Above Finished Floor
AGGR	Aggregate
ALUM	Aluminum
ALTN	Alternate
ALY	Alloy
ANSI	American National Standards Institute
APPROX	Approximate, Approximately
ARCH	Architect, Architectural
ARV	Air Release Valve
A/S, AS	Air Supply, Air Sparging
ASME	American Society of Mechanical Engineers
ASNT	American Society for Nondestructive Testing
ASSY	Assembly
ASTE	American Society for Testing Engineers
ASTM	American Society for Testing and Materials
ASU	Air Supply Unit
AUTO	Automatic
AUX	Auxiliary
AVRV	Air and Vacuum Release Valve
AWG	American Wire Gauge
AWS	American Welding Society
AWWA	American Water Works Association
AZ	Azimuth
@	At
B	Boring
BC	Booster Coil
BD	Board
BF	Blind Flange, Bottom Face
BFP	Back-Flow Preventer
BFS	Below Finished Surface
BIT	Bituminous
BLDG	Building
BLW	Blower
BM	Bench Mark, Beam
B/M	Bill of Material
BOC	Bottom of Concrete
BOP	Bottom of Pipe
BOS	Bottom of Steel
BOT	Bottom
BTUH	British Thermal Units Per Hour
BTWN	Between
BRG	Bearing
BSP	Black Steel Pipe
BVC	Beginning of Vertical Curve
C	Channel (Beam)
C to C	Center to Center
CB	Catch Basin
CBC	Cement Base Coating
CD	Ceiling Diffuser
CF	Cubic Feet
CFH	Cubic Feet Per Hour
CFM	Cubic Feet Per Minute
CFS	Cubic Feet Per Second
CG	Ceiling Grille
CHS	Chemical Storage
CI	Center Internal
CIMJ	Cast Iron Pipe Mechanical Joint
CIP	Cast Iron Pipe Flanged
CJ	Construction Joint
CLG	Ceiling
CLSTL	Cement-Lined Steel Pipe
CLR	Clear, Clearance
CL, ℄	Centerline
CMP	Corrugated Metal Pipe
CMU	Concrete Masonry Unit
CO	Cleanout
COL	Column
CONC	Concrete
COND	Condensate
CONN	Connection
CONSTR	Construction
CONT	Continuous, Continuation
COORD	Coordinate
COP	Center of Pipe
COR	Corner
CORR	Corrosion
CP	Chemical Pump
CPLG	Coupling
CPVC	Chlorinated Polyvinyl Chloride Plastic
CRS	Cold Rolled Steel
CSBC	Crushed Surface Base Course
CSTC	Crushed Surface Top Course
CT	Ceramic Tile
CTR	Center
CTRD	Centered
CU	Copper Tubing
CU FT	Cubic Feet
CUH	Cabinet Unit Heater
CU IN	Cubic Inch
CW	Cold Water
CY	Cubic Yard
°C	Degrees Celsius
d	Penny(Nail Size)
D	Drain
DBL	Double
DET	Detail
DI	Drop Inlet
D.I.	Ductile Iron
DIA, Ø	Diameter
DIAG	Diagonal
DIM	Dimension
DIMJ	Ductile Iron Pipe Mechanical Joint
DIP	Ductile Iron Pipe Flanged
DN	Down
DP	Deep
DRN	Drain Plug
DSLD	Dip Stick Leak Detector
DWG	Drawing
DWGS	Drawings
DWL	Dowel
E	East
EA	Each
EF	Each Face, Exhaust Fan
EFF	Effluent
EL, ELEV	Elevation
ELB	Elbow
ELEC	Electric, Electrical
ENGR	Engineer
EPDM	Ethylene Diene Monomer
EQ, EQL	Equal
EQPT	Equipment
EVC	End of Vertical Curve
EW	Each Way
EXW	Extraction Well
EXH	Exhaust
EXP	Exposed
EXP AB	Expansion Anchor Bolt
EXP JT	Expansion Joint
EXP MTL	Expansion Material
EXST	Existing
EXT	Exterior
FC	Flexible Coupling
FCA	Flanged Coupling Adaptor
FCO	Floor Clean-Out
FD	Floor Drain, Fire Damper
FDN	Foundation
FIN	Finished
FF	Finished Floor
FG	Finished Grade
FIG	Figure
FIPT	Female Internal Pipe Thread
FL	Flow Line
FLR	Floor
FLG	Flange
FM	Fire Main
FPS	Feet per Second
FPT	Female Pipe Thread
FRP	Fiberglass, Reinforced Plastic
FT	Foot, Feet
FTG	Footing
°F	Degrees Fahrenheit
GA	Gauge
GAC	Granular Activated Carbon
GAL	Gallon
GALV	Galvanized
GEN	General
GL	Glass, Glazing
GLDIP-J	Glass-Lined Ductile Iron Pipe Flanged Joint
GLDIPMJ	Glass-Lined Ductile Iron Pipe Mechanical Joint
GND	Ground
GP	Guard Post (Bollard)
GPD	Gallons Per Day
GPH	Gallons Per Hour
GPM	Gallons Per Minute
GR	Grade
GSP	Galvanized Steel Pipe
GW	Groundwater
GWB	Gypsum Wall Board
HB	Hose Bibb
HC	Hose Connection
HD	Hub Drain
HDPE	High Density Polyethylene
HDWD	Hardwood
HDWR	Hardware
HGT	Height
HH	Handhold
HM	Hollow Metal
HORIZ	Horizontal
HP	Horsepower
HT	Heat Trace
HTIP	Heat Trace, Insulated Pipe
HTR	Heater
HV	Hose Valve, Hand Valve
HVAC	Heating Ventilating and Air-Conditioning
HYD	Hydraulic
I&C	Instrumentation and Control
ID	Inside Diameter
IE	Invert Elevation
IF	Inside Face
IN	Inch
INC	Incorporated
INF	Influent
INSUL	Insulation
INV	Invert
IP	Insulated Pipe
JCT	Junction
JT	Joint
K/O	Knock-out
KW	Kilowatt
KSI	Kips Per Square Inch
L	Angle
LA	Layer
LAV	Lavatory
LB	Pound
LB/CU FT	Pounds Per Cubic Foot
LD	Leak Detection
LF	Linear Feet
LH	Left Hand
LLH	Long Leg Horizontal
LLV	Long Leg Vertical
LR	Long Radius
LVR	Louver
LWS	Low Water Surface
M	Mixer
MATL	Material
MAX	Maximum
MB	Machine Bolt
MCC	Motor Control Center
MECH	Mechanical
MFG	Manufacturing
MFR	Manufacturer
MG	Million Gallons
MGD	Million Gallons Per Day
MH	Manhole
MIN	Minimum
MIPT	Male Internal Pipe Thread
MISC	Miscellaneous
MJ	Mechanical Joint
MOD	Modified
MSL	Mean Sea Level
MSS	Manufacturers Standardization Society (valve and fittings industry)
MTL	Metal
MTS	Mill-Type Steel Pipe
MW	Monitoring Well
MWS	Maximum Water Surface
N	North, Northerly
NIC	Not in Contract
NO.	Number
NOM	Nominal
NOZ	Nozzle
NPS	National Pipe Size
NPT	National Pipe Thread
NTS	Not to Scale
NW	North West
OC	On-Center
O.D.	Overflow Drain
OD	Outside Diameter, Outside Dimension
OF	Outside Face
OPP	Opposite
OPNG	Opening
P	Power
PC	Point of Curve
PE	Plain End
PERF	Perforated
PF	Polymer Feed
PFI	Pipe Fabrication Institute
PG	Pressure Gauge
PI	Point of Intersection, Pressure Indicator
P&ID	Process and Instrumentation Diagram
pH	Hydrogen Ion Concentration (-log)
PJF	Premolded Joint Filler
PL	Plate(Steel)
PLYWD	Plywood
PNL	Panel
PREFAB	Prefabricated
PRESS	Pressure
PRI	Primary
PROP	Property
PL, PROPL	Property Line
PP	Power Pole
PRV	Pressure Relief Valve
PS	Pump Station
PSF	Pounds Per Square Foot
PSI	Pounds Per Square Inch
PSIA	Pounds Per Square Inch Absolute
PSIG	Pounds Per Square Inch Gauge
PT	Point of Tangency
PTD	Painted
PUD	Public Utility District
PVC	Polyvinyl Chloride Plastic
PVI	Point of Vertical Intersection
PVMT	Pavement
QTY	Quantity
R, RAD	Radius
RCP	Reinforced Concrete Pipe
RD	Roof Drain
RDCR	Reducer
RDW	Redwood
REF	Reference
REINF	Reinforcing, Reinforce
REQD	Required
REV	Revision
RH	Right Hand
RM	Room
ROW	Right of Way
RPM(rpm)	Revolutions per minute
RST	Reinforcing Steel
S	I-Beam, Slope
SCFM	Standard Cubic Feet Per Minute
SCH, SCHED	Schedule
SD	Sewer Drain
SEC	Secondary
SECT	Section
SEPR	Separator
SHT	Sheet
SIM	Similar
SM	Static Mixer
SO	South
SOC	Socket
SP	Space, Spaces
SPA	Space
SPL	Splice
SPECS	Specifications
SPEC'D	Specified
SQ	Square
SQ FT	Square Foot
SQIN	Square Inch
SS	Sanitary Sewer
S.S.	Stainless Steel
SSMH	Sanitary Sewer Manhole
STA	Station
STD	Standard
STL	Steel
STRUCT	Structure, Structural
SUSP	Suspended
SV	Soil Vapor
SVE	Soil Vapor Extraction
SYMM	Symmetrical
T&B	Top & Bottom
T&G	Tongue and Groove
TAN	Tangent
TBG	Tubing
TDH	Total Dynamic Head
TECH	Technical
TEL	Telephone
TEMP	Temperature
TF	Top Face
THD'D	Threaded
THK	Thick(ness)
TOC	Top of Concrete
TOS	Top of Slab, Steel
TOT	Total
TOW	Top of Wall
TP	Turning Point
TRANSV	Transverse
TS	Tubular Steel
UA	Unit Alarm
UBC	Uniform Building Code
UH	Unit Heater
UNO	Unless Noted Otherwise
US	Utility Station
UV	Utility Vault
V	Volt(s)
VAC	Vacuum, Volts A.C.
VAR	Variable
VC	Vertical Curve
VD	Volume Damper
VERT	Vertical
VOCs	Volatile Organic Compound
VRV	Vacuum Relief Valve
VTR	Vent Through Roof
VV	Valve, Vault
W/	With
W/O	Without
W	West, Water
WD	Wood
WR	Water Resistant
WS	Water Surface
WSP	Welded Steel Pipe
WT	Weight
WWF	Welded Wire Fabric
WWM	Welded Wire Mesh
YD	Yard

FLOW STREAM IDENTIFICATION

—WW— WASTEWATER TRANSFER LINE

APPROVED FOR CONSTRUCTION JUN 12 1995 CITY OF MOUNTAIN VIEW, CALIF. PER

REV	DESCRIPTION OF REVISION	BY	DATE
1	ISSUED FOR CONSTRUCTION	REJ	5/27/95
0	ISSUED FOR PERMITTING	REJ	1/25/95

GROUNDWATER EXTRACTION AND TREATMENT SYSTEM

GTE

GTE GOVERNMENT SYSTEMS
100 FERGUSON DRIVE
MOUNTAIN VIEW, CALIFORNIA

Woodward-Clyde Consultants
55 South Market Street, Suite 1650, San Jose, California

WARNING: IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED REJ | DRAWN EG | CHECKED AJA | PEER REVIEWED | PROJECT MANAGER | DATE 1/25/95

GENERAL

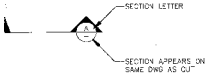
ABBREVIATIONS (GENERAL, CIVIL, STRUCTURAL, ARCHITECTURAL AND MECHANICAL)

REVISION 1 | PROJECT 541 41NA | DRAWING G-2 | SHEET 2 OF 29

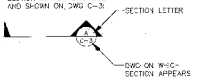
24X

TYPICAL DETAIL AND SECTION IDENTIFICATIONS

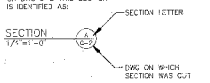
SECTION CUT ON DWG C-2 AND SHOWN ON C-2 IS IDENTIFIED AS:



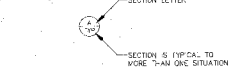
SECTION CUT ON DWG C-2 AND SHOWN ON DWG C-3



ON DWG C-3 THIS SECTION IS IDENTIFIED AS:



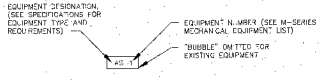
SECTION HAS CUT TAKEN ON MORE THAN ONE DWG:



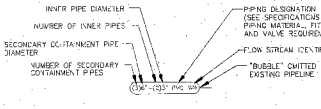
SECTION HAS CUT TAKEN ON MORE THAN ONE DWG:

UNDETAILED OBJECT SHOWN ON DWG C-3 IS IDENTIFIED AS:

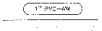
TYPICAL EQUIPMENT IDENTIFICATION



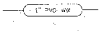
TYPICAL PIPING IDENTIFICATIONS



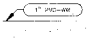
"TWO LINE" PIPE SYMBOL FORMAT



"SINGLE LINE" PIPE SYMBOL FORMAT



"SINGLE LINE" PIPE SYMBOL FORMAT



"SINGLE LINE" PIPE SYMBOL FORMAT

DESIGN CRITERIA

EXTRACTION SYSTEM

THREE PHASED OF EXTRACTION SHALL TAKE PLACE AT THE GTE SITE TO CAPTURE IMPACTED GROUNDWATER. THESE PHASES ARE:

CONSTRUCTION PHASE	CONSTRUCTION ACTIVITIES	EXTRACTION WELLS	EXTRACTION RATE (GPM)
PHASE I	NONE	EX-2A	3.0
		EX-3A	3.0
		EX-4A	3.0
		EX-7A	3.0
		EX-1	3.0
		GTE-14B*	5.0
		EX-5B1	6.0
		EX-6B1	6.0
		EX-7B1	6.0*
		TOTAL	38.3
PHASE II	SALE AND DEMOLITION OF BUILDINGS 1 & 2 AND REDEVELOPMENT ACTIVITES	EX-1	3.0
		EX-2	3.0
		EX-3	3.0
		EX-4A	3.0
		EX-5A	3.0
		EX-7A	3.0
		EX-1B1	5.0
		EX-2B1	3.0
		EX-5B1	6.0
		EX-6B1	6.0
		EX-7B1	6.0
		TOTAL	46.0
PHASE III	SALE OF BUILDINGS 3, 4, & 5 AND REDEVELOPMENT ACTIVITIES	EX-1A	3.0
		EX-2A	3.0
		EX-3A	3.0
		EX-4A	3.0
		EX-5A	3.0
		EX-6A	3.0
		EX-7A	3.0
		EX-1B1	5.0
		EX-2B1	5.0
		EX-3B1	5.0
		EX-4B1	5.0
		EX-5B1	6.0
		EX-6B1	6.0
		EX-7B1	6.0*
		EX-1B2	13.0
		EX-2B2	15.0
		TOTAL	97.0

GROUNDWATER EXTRACTION WELLS SHALL BE PIPED INDIVIDUALLY TO A COMMON MANIFOLD, THRIFT ARE A MANIFOLD AREAS THROUGHOUT THE GTE SITE THAT SHALL FEED THE TREATMENT SYSTEM. ALL WASTEWATER PIPING SHALL BE SECONDARY CONTAINED.

TREATMENT SYSTEM

MAXIMUM FLOW PROCESS FOR THE TREATMENT SYSTEM IS 100 GPM. WATER PUMPED FROM EXTRACTION SYSTEM SHALL BE EQUALIZED IN A STORAGE TANK THAT SHALL FEED A SHALLOW TRAY AIR STRIPPER. PROCESS WATER SHALL BE DISCHARGED TO SEWER WITH NO FURTHER TREATMENT. NO OFFGAS TREATMENT IS REQUIRED.

EQUALIZATION TANK (ET-1)	
CAPACITY	1,500 GALLON
DIMENSIONS	8'-6"Ø, 7'-8" HIGH, CONE-BOTTOM TANK
MATERIAL OF CONSTRUCTION	POLYETHYLENE PLASTIC
INFLUENT PUMP (EP-1 & 2)	
HORSE POWER	
MOTOR TYPE	TEFC
CAPACITY	50 GPM @ 30' TDH
TYPE	SOULDS/STAINLESS STEEL
BAG FILTER (F-1 & 2)	
100 GPM TYPE	PRESSURE VESSEL (150 PSIG) REMOVABLE BAG
TREATMENT CAPACITY	100 GPM EACH
HOLDING CAPACITY	5.7 GALLONS
FILTRATION AREA	10 SQUARE FEET
SOLID RETENTION SIZE	10 MICRON
AIR STRIPPER (AS-1)	
CAPACITY	50-100 GPM
EFFICIENCY	90% VOC REMOVAL
TRAYS	4
TYPE	DUAL/PVC TYPE B
AIR BLOWER	1,000 CFM @ 40" W.C. (MAX)
BLOWER MOTOR	7.5 HP, TEFC
AIR STRIPPER (AS-1)	
HORSE POWER	2
MOTOR TYPE	TEFC
CAPACITY	100 GPM @ 30' TDH
TYPE	SOULDS/STAINLESS STEEL

DISCHARGE SYSTEM

TREATED WATER SHALL BE DISCHARGE INTO THE SANITARY SEWER. AIR STRIPPER OFFGAS SHALL BE MAINTAINED BELOW 0.5 POUNDS OF VOC PER DAY AND DISCHARGED INTO THE ATMOSPHERE.

APPROVED FOR CONSTRUCTION JUN 13 1995 CITY OF MOUNTAIN VIEW, CALIF. PUBLIC WORK DEPT.

REV	DESCRIPTION OF REVISION	BY	DATE
1	ISSUED FOR CONSTRUCTION	RK	3/22/95
0	ISSUED FOR PERMITTING	REJ	1/26/95

GROUNDWATER EXTRACTION AND TREATMENT SYSTEM
GTE
GTE GOVERNMENT SYSTEMS
100 FERGUSON DRIVE
MOUNTAIN VIEW, CALIFORNIA

Woodward-Clyde Consultants
WOODWARD-CLYDE CONSULTANTS OF CALIFORNIA
10 SOUTH BROADWAY STREET, SUITE 1510
SAN JOSE, CALIFORNIA

WARNING: IF THIS BAR DOES NOT MEASURE 1" FROM DRAWING IS NOT TO SCALE

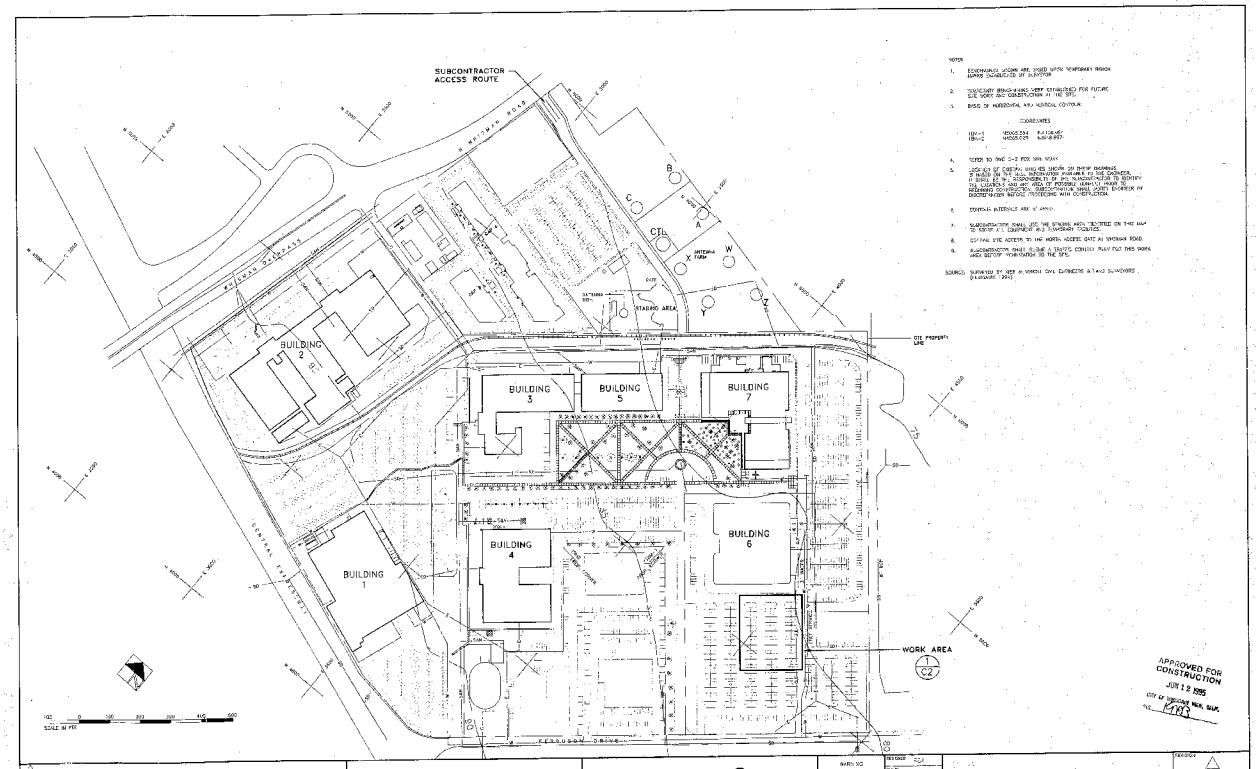
DESIGNED REJ
DRAWN EC
CHECKED JAJR
REVIEWED
APPROVED
DATE 1/26/95

GENERAL

REFERENCE AND IDENTIFICATION SYSTEMS

PROJECT 94118.1A
DRAWING G-3
SHEET 3 OF 22

24X



NOTES

1. ELEVATIONS SHOWN ARE BASED UPON TEMPORARY BENCH MARKS ESTABLISHED AT SUBSITE.
2. TEMPORARY BENCH MARKS WERE ESTABLISHED FOR FUTURE SITE WORK AND CONSTRUCTION AT THE SITE.
3. BASIS OF HORIZONTAL AND VERTICAL CONTROL

COORDINATES

TBM-1	1896025.534	6.417.984.6
TBM-2	1896025.08	6.418.18.877

4. REFER TO DWG C-2 FOR TBM 1896.
5. LOCATION OF EXISTING UTILITIES SHOWN ON DRAWINGS IS BASED ON SITE FIELD INFORMATION AVAILABLE TO THE ENGINEER. IT WILL BE THE RESPONSIBILITY OF THE SUBCONTRACTOR TO IDENTIFY THE LOCATIONS AND AREA OF POTENTIAL IMPACTS. PRIOR TO BEGINNING CONSTRUCTION, SUBCONTRACTOR SHALL VERIFY EXISTENCE OF INTERFERENCES BEFORE PROCEEDING WITH CONSTRUCTION.
6. CONTOUR INTERVALS ARE 0' APART.
7. SUBCONTRACTOR SHALL USE THE STAGING AREA DESIGNED ON THE MAP TO REPAIR ALL EQUIPMENT AND SUBCONTRACTORS.
8. GETTING SITE ACCESS VIA THE NORTH ACCESS GATE AT SYCAMORE ROAD.
9. SUBCONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN FOR THIS WORK AREA BEFORE WORK BEGINS ON THE SITE.

SOURCES: SURVEYED BY WEE & WORCH CIVIL ENGINEERS & LAND SURVEYORS (JANUARY 1993)

APPROVED FOR CONSTRUCTION
JUN 12 1995
CITY OF MOUNTAIN VIEW, SUP.
BY: [illegible]

REV	DATE
ISSUED FOR CONSTRUCTION	6/12/95
ISSUED FOR REPRINTING	1/25/95
SUBCONTRACT BID SET	

GROUNDWATER EXTRACTION AND TREATMENT SYSTEM
GTE
SITE GOVERNMENT SYSTEMS
100 FERGUSON DRIVE
MOUNTAIN VIEW, CALIFORNIA

Woodward-Clyde Consultants

SCALE: 1:0
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED	RCA
DRAWN	LG
CHECKED	AJR
PLAN CHECKED	
DATE	1/25/95

SITE PLAN

REVISION
PROJECT 9411-1184
DRAWING C-4
SHEET 0 OF

MATERIALS LEGEND

FILL MATERIALS:

- AGGREGATE BASE
- BACKFILL MATERIAL
- DRAIN ROCK
- GRAVEL
- RIP-RAP
- CLASS 4 AGGREGATE MATERIAL
- STRUCTURAL FILL
- TOPSOIL

OTHER MATERIALS:

- EXISTING SUBSOIL
- ASPHALTIC CONCRETE BINDER COURSE
- ASPHALTIC CONCRETE WEARING COURSE
- EXISTING PAVEMENT
- CONCRETE
- PRECAST CONCRETE
- CEMENT MORTAR
- CEMENT-BENTONITE GROUT
- BENTONITE SEAL
- FIBERGLASS REINFORCED PLASTIC
- BRICK
- CAST IRON
- STEEL
- CMU WITH GRANULAR INSULATION
- METAL INSULATED PANEL
- INSULATION, LOOSE FILL OR BATTS
- INSULATION, RIGID
- PLYWOOD
- WOOD, FINISHED
- WOOD, ROUGH CONTINUOUS
- WOOD, ROUGH NONCONTINUOUS
- WOOD STUD WALL

GENERAL/CIVIL LEGEND

- STAGING AREA BOUNDARY LINE
- PROPERTY LINE/EASEMENT/RIGHT OF WAY
- CHAINLINK FENCE
- DRAINAGE DITCH
- 1000 EXISTING GRADE
- 1000 EXISTING CONTOUR
- 1000 NEW CONTOUR (INTERVAL = 1 FOOT)
- EXISTING MONITORING WELL
- NEW EXTRACTION WELL
- EXISTING EXTRACTION WELL
- 2:1 NEW EMBANKMENT SLOPE, AS INDICATED
- SV-1 SOIL VAPOR EXTRACTION WELL
- SV/AS-1 COMBINATION AIR SPARGING/SOIL VAPOR EXTRACTION WELL
- EXISTING BUILDING
- EXISTING CULVERT
- EXISTING CURB
- EXISTING LIGHT POLE
- TEST HOLE
- EXISTING FIRE HYDRANT
- EXISTING FORCE MAIN
- EXISTING POWERLINE
- EXISTING WATERLINE
- EXISTING NATURAL GASLINE
- EXISTING TELEPHONE LINE
- EXISTING SANITARY DRAIN
- SWALE
- SAW CUT LINE
- EXISTING BURIED VALVE
- TREE
- 28.9 SPOT ELEVATION OR FINISH GRADE
- EXISTING IRRIGATION WELL
- PROPERTY CORNER MARKER
- RAILROAD TRACKS
- SIGN
- NEW UTILITY POLE
- EXISTING UTILITY POLE
- VAULT
- VAULT AND ANCHOR BLOCKS
- 3 1 SLOPE (3 HORIZONTAL TO 1 VERTICAL)
- CATCH BASIN
- PI (POINT OF INTERSECTION)
- 58 VP (VERTICAL POINT OF INTERSECTION) AND FINISH GRADE ELEVATION
- RADIAL POINT
- CONTROL POINT
- DI (DROP INLET)
- FLOW LINE AND DIRECTION
- TOP OF CUT
- TOP OF FILL
- TOP OF BANK
- EXISTING TELEPHONE POLE
- ROCKS
- (TOP) FILL EMBANKMENT
- (TOP) CUT EMBANKMENT
- SLOPE

DRAWING SYMBOLS

- 101 ROOM NUMBER
- 101 DOOR NUMBER
- A WINDOW NUMBER
- A INTERIOR WALL SECTION DESIGNATION
- (EL=100'00") INTERIOR ELEVATION, TOP OF WALL (TOW)
- 99'-0" FLOOR ELEVATION
- FUTURE ITEM
- XXXXX DEMOLITION
- TRENCH LINE, PIPING
- MATCH LINE
- CENTERLINE
- & AND
- ∠PT ANGLE POINT

CURVE DATA

- R RADIUS
- L LENGTH
- BC BEGIN CURVE
- Δ DELTA
- T SEMITANGENT
- EC END CURVE
- Ø ROUND OR DIAMETER
- ℄ CENTERLINE
- e VERTICAL OFFSET IN FEET FROM PVI TO MIDDLE OF CURVE
- SDR STANDARD THERMOPLASTIC PIPE

GENERAL CIVIL NOTES

1. EXISTING RECORD CONSTRUCTION DRAWING DATA SHOWN ON THE DRAWINGS ARE COMPILED FROM A VARIETY OF SOURCES AND WERE NOT VERIFIED IN THE FIELD. ANY KNOWN SEWERS, WATER MAINS, GAS MAINS, TELEPHONE CONDUITS, CATHODIC PROTECTION CABLES, ELECTRIC CABLES, AND OTHER UNDERGROUND STRUCTURES ARE SHOWN ON THE DRAWINGS ONLY TO THE EXTENT SUCH INFORMATION HAS BEEN MADE AVAILABLE TO OR DISCOVERED BY THE ENGINEER. IT IS EXPECTED THAT THERE MAY BE DISCREPANCIES AND OMISSIONS IN THE LOCATION AND QUANTITIES OF UTILITIES AND STRUCTURES SHOWN. THIS INFORMATION IS SHOWN FOR THE CONVENIENCE OF THE SUBCONTRACTOR BUT IS NOT GUARANTEED TO BE EITHER CORRECT OR COMPLETE AND ALL RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS THEREOF IS EXPRESSLY DISCLAIMED BY THE ENGINEER. THE SUBCONTRACTOR SHALL MAKE SUCH INVESTIGATION AS HE DEEMS NECESSARY TO VERIFY ITS CORRECTNESS AND COMPLETENESS. THE SUBCONTRACTOR SHALL LOCATE AND AVOID ALL UNDERGROUND UTILITIES AND STRUCTURES AHEAD OF EXCAVATION.
2. BASIS OF HORIZONTAL AND VERTICAL CONTROL ARE DERIVED FROM TEMPORARY BENCH MARK TBM-1 AND TBM-2 AT PROPERTY CORNERS OF BUILDING 6 AND 4. (SEE GENERALIZED SITE PLAN DWG G-A).
3. ALL DISTANCES SHOWN ON THE DRAWINGS SHALL BE INTERPRETED TO REFER TO THE HORIZONTALLY AND VERTICALLY PROJECTED PLANES, UNLESS OTHERWISE INDICATED.
4. ELEVATIONS SHOWN ON THE DRAWINGS ARE BASED ON MEAN SEA LEVEL.
5. THIS DRAWING IS INCLUDED TO PROVIDE A GENERAL OVERVIEW OF THE WORK TO BE PERFORMED. THE LOCATIONS OF ALL FACILITIES TO BE CONSTRUCTED ARE APPROXIMATE ONLY. REFER TO THE CIVIL, MECHANICAL, ELECTRICAL AND PROCESS DRAWINGS FOR DETAILS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE STARTING WORK AND SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
6. WARNING: THE POSSIBILITY EXISTS OF ENCOUNTERING GASES AND/OR OTHER SUBSTANCES DURING THE WORK THAT MAY BE POTENTIALLY HAZARDOUS TO THE SAFETY AND HEALTH OF PERSONNEL. THE SUBCONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR EMPLOYEE HEALTH AND SAFETY DURING THE WORK PERFORMED UNDER THIS CONTRACT. THE SUBCONTRACTOR SHALL NOT FAIL TO IMPLEMENT THE SITE HEALTH AND SAFETY PLAN REQUIRED UNDER THIS CONTRACT.

APPROVED FOR CONSTRUCTION
JUN 12 1995
CITY OF MOUNTAIN VIEW, DEPT. OF PUBLIC WORKS
BY

NO.	DATE	DESCRIPTION OF REVISION	BY
1		ISSUED FOR CONSTRUCTION	HGJ 3/27/95
2		REVISED PER ADDENDUM	HGJ 1/25/95
3			
4			
5			

GROUNDWATER EXTRACTION AND TREATMENT SYSTEM
GTE
GTE GOVERNMENT SYSTEMS
100 FERGUSON DRIVE
MOUNTAIN VIEW, CALIFORNIA

Woodward-Clyde Consultants

WARNING: IF THIS BAR DOES NOT MEASURE 1" THEN DRAWINGS ARE NOT TO SCALE

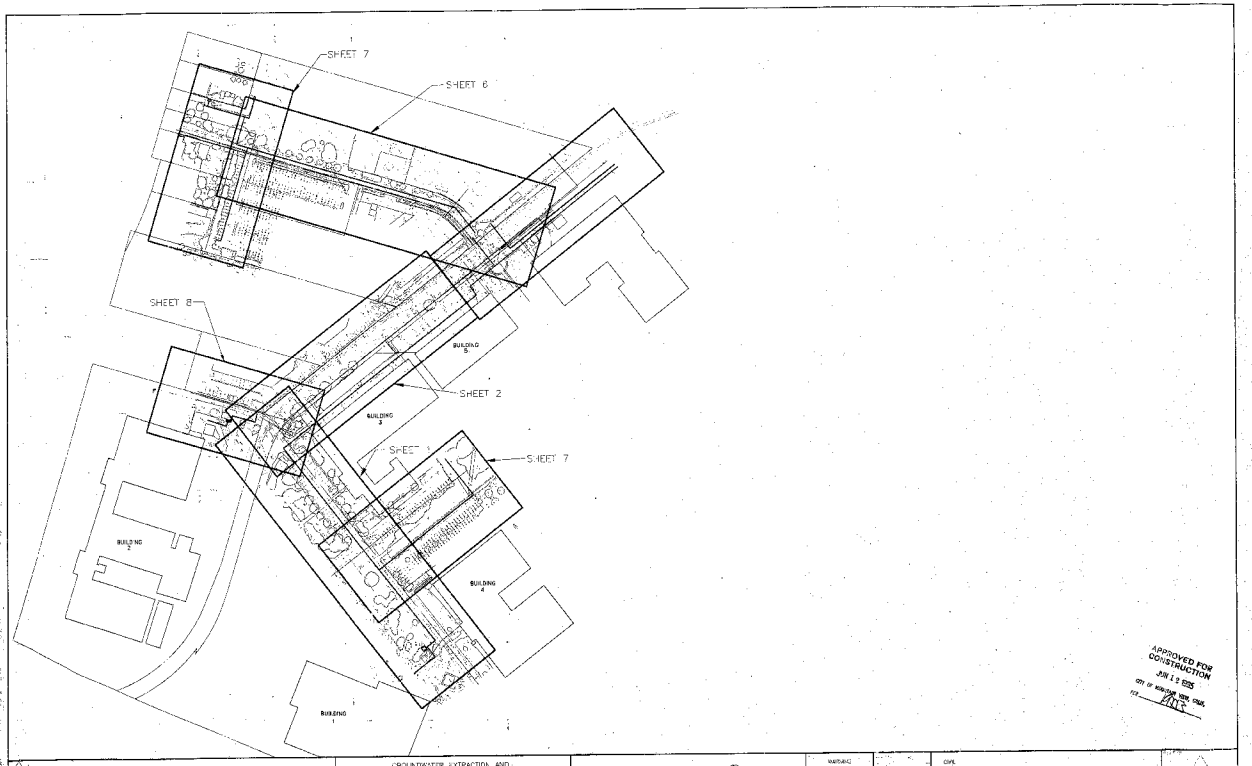
DESIGNED REC
DRAWN DC
CHECKED AJH
PROJ. ENGINEER
PROJ. MANAGER
DATE 1/25/95

CIVIL

CIVIL SYMBOLS, LINETYPE AND GENERAL NOTES

PERSON
PROJECT 94114.NA
DRAWING C-1
SHEET 5 OF 24

24X


SHEET 7
SHEET 6
SHEET 8
BUILDING 5
SHEET 2
BUILDING 3
SHEET 1
SHEET 7
BUILDING 2
BUILDING 4
BUILDING 1
APPROVED FOR CONSTRUCTION
JUN 1 2 1995
CITY OF MOUNTAIN VIEW, CALIF.
GROUNDWATER EXTRACTION AND TREATMENT SYSTEM
GTE
GTE GOVERNMENT SYSTEMS
100 FERGUSON DRIVE
MOUNTAIN VIEW, CALIFORNIA
Woodward-Clyde Consultants
GROUNDWATER EXTRACTION PIPING PLAN KEY MAP
C-2

24X