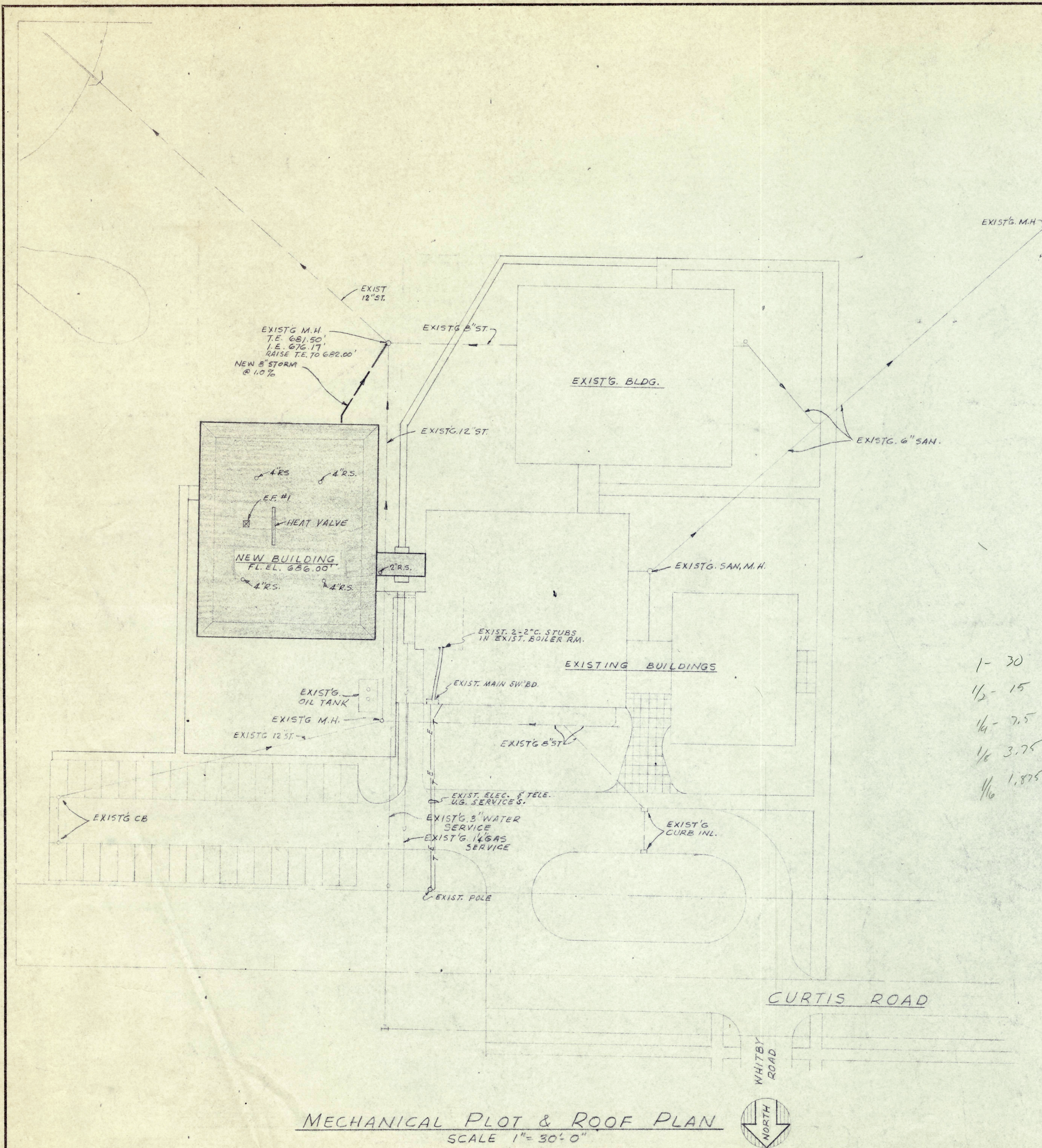




MECHANICAL PLOT & ROOF PLAN
SCALE 1" = 30'-0"

1- 30
1/2- 15
1/4- 7.5
1/8 3.75
1/16 1.875

SCHEDULES & SYMBOLS

MECHANICAL SYMBOLS									
	AUTO. CONTROL VALVE	AAV	AUTOMATIC AIR VENT	EF	EXHAUST FAN	PRV	PRESSURE REDUCING VALVE	SWFD	SAFE WATER FLOW DRAIN
	BALANCING COCK	AMD	AREA WAY DRAIN	EP	END PLATE	R	CONDENSATE RETURN	TDC	TILE DRAIN CONNECTION
	CHECK VALVE	AC	AUTO-ACTIC CONTROL	FA	FRESH AIR	RA	RETURN AIR	UF	UTILITY FIXTURE
	SANITARY SEWER	AD	ACCESS DOOR	FD	FLOOR DRAIN	RG	RETURN GRILLE	UH	UNIT HEATER
	COLD WATER	AD	ACCESS DOOR	F	FILLER PANEL (UTIL. GAS IT)	RS	ROOF SUMP	UV	UNIT VENTILATOR
	HOT WATER	BL	BLEEDER LINE	FR	FINNED RADIATION	S	STEAM	UR	URINAL
	HOT WATER RETURN	BCC	BALANCING COCK CONTROL	GT	GREASE TRAP	SH	SHOWER HEAD	VS	VACUUM BREAKER
	STORM SEWER	BWV	BACK WATER VALVE	HB	HOSE BIBB	SS	SERVICE SINK	VD	VENT DUCT
	FLOW IN LINE	CB	CATCH BASIN	HFD	HOPPER FLOOR DRAIN	SN	SINK	VG	VENT GRILLE
	GATE VALVE	CC	CONTINUOUS CONVEYOR	HR	HEATING RETURN (WATER)	SP	SOIL PIPE	VP	VENT PIPE
	GAS	CD	CEILING DIFFUSER	HS	HEATING SUPPLY (WATER)	S & D	STOP AND DRAIN	VR	VENT REGISTER
	RUNNING TRAP & C.O.	CA	COMPRESSED AIR	LAV	LAVATORY	SD	SUPPLY DUCT	HW	HTG. & VENT. UNIT
	THERMOSTAT	COND.	CONDUCTOR	MC	MANUAL CONTROL	SG	SUPPLY GRILLE	WH	WALL HYDRANT
	UNION	CONV.	CONVEYOR	MI	MANHOLE	SR	SUPPLY REGISTER	W	WASTE
	STEAM CONTROL VALVE	DD	DRAFT DUCT	MT	MANHOLE TEE	SO	SUPPLY OUTLET	W & V	WASTE AND VENT
	STRAINER	DF	DRINKING FOUNTAIN	MV	MANUAL VENT	SW	SIZE WASTE	WC	WATER CLOSET
		DRP	DRY PIPE HYDRANT	NIC	NOT IN CONTRACT	THW	THERMIST AND WELL	WTD	WATH PIPE SAMPLE
		EC	END COVER	PCR	PUMPED COND. RETURN	TIM	TEMPERED HOT WATER	WFR	WINDOW FIN RADIATION

PLUMBING FIXTURES

FIXTURE	LOCATION	MAKE	MODEL NO.	CODE NAME	SIZE	MAT'L	ACCESSORIES
WC	ALL	KOHLER	K-4280 ET	PENRYN		CHINA	SLOAN ROYAL #110FYV OLSONITE #10 BLK OPEN
UR	ALL	KOHLER	K-4920-T	BRANHAM		CHINA	SLOAN ROYAL*185YV K-9173 STRAINER
LAV.	ALL	KOHLER	K-1975	GREENWICH	20"x18"	CHINA	SPEAKMAN 54320 METERING FAUCET - K-7050 CHECK STOPS JOSAM C-304 WALL SUPPORT K-7714 DRAIN SEE SM-5
SS	ALL	KOHLER	K-12874-A	LAVINGTON	24"x28"	C.I.	K-13633 SUPPLY
D.F.	ALL	KOHLER	K-5260-A	SAYBROOK	14"x18"	CHINA	
FD.	TOILETS	BOOSEY	205 RA		5' Ø	C.I.	ILLINOIS METAL STRAINER
R.S.	ALL	BOOSEY	2005 A		2'-4"	C.I.	HUB OUTLET

EXHAUST FAN

No.	SERVICE	CFM	5P.	TIP SPD	DRIVE	VOLTAGE	HP	MAT'L.	DAMPER	REMARKS	* AUTOMATIC CONTROL
1	TOILETS	1440	3/8"	3300	BELT	115V-1ϕ	1/4	ALUM.	SELF-ACT.	JENN-AIR 241BCR 515 RPM	*

UNIT VENTILATORS

NO.	CFM(STD)	F.T.	BTU/HR	HEAT MED	HP	VOLTAGE	REMARKS
1	1000	131°	65200	180°	X ₀	115V-1φ	SCHEMENAUER UH-102B-B-1-W4/WPR 6 OPEN SHELVING-8'0 PER UNIT REMAINING SHELVING 8 WPR ALTERNATE LOUVERS BY GENL. CONTR.

UNIT HEATERS

No.	CFM	F.T.	BTU/HR.	HEAT MED	HP	VOLTAGE	P.D.	REMARKS
1	650	120	43,000	180°F	1/8	115-14	15	TRANS 250-2 FLOOR TYPE REWORK EXISTS UN WHICH IS FULLY REC. TYPE
2	650	120	43,000	180°F	1/8	115-14	18	TRANS 250-2 FLOOR TYPE
								TRANS 250-2 WALL/HUNG FRONT INLET & OUTLET

ELECTRICAL SYMBOLS

	INCANDESCENT CEILING LIGHT		TELEVISION OUTLET	A,B,BEL. LIGHT FIXTURE DESIGNATION
	WALL LIGHT OUTLET		WALL SPEAKER OUTLET	A.F. ABOVE FLOOR
	EXIT LIGHT OUTLET		CLOCK	C. CONDUIT
	FLUORESCENT LIGHT FIXTURE		SIGNAL BELL	P.B. PULL BOX
	DUPLEX RECEPTACLE		FIRE ALARM STATION	L8-12 PANEL & CIRCUIT DESIGNATION
	SINGLE POLE WALL SWITCH		FIRE HORN	S.N. SOLID NEUTRAL
	3-WAY WALL SWITCH		1-PHASE MOTOR	U.G. UNDERGROUND
	KEY OPERATED WALL SWITCH		1-PHASE STARTER SWITCH	
	ELEC. PANEL OR CABINET		ELECTRIC THERMOSTAT	

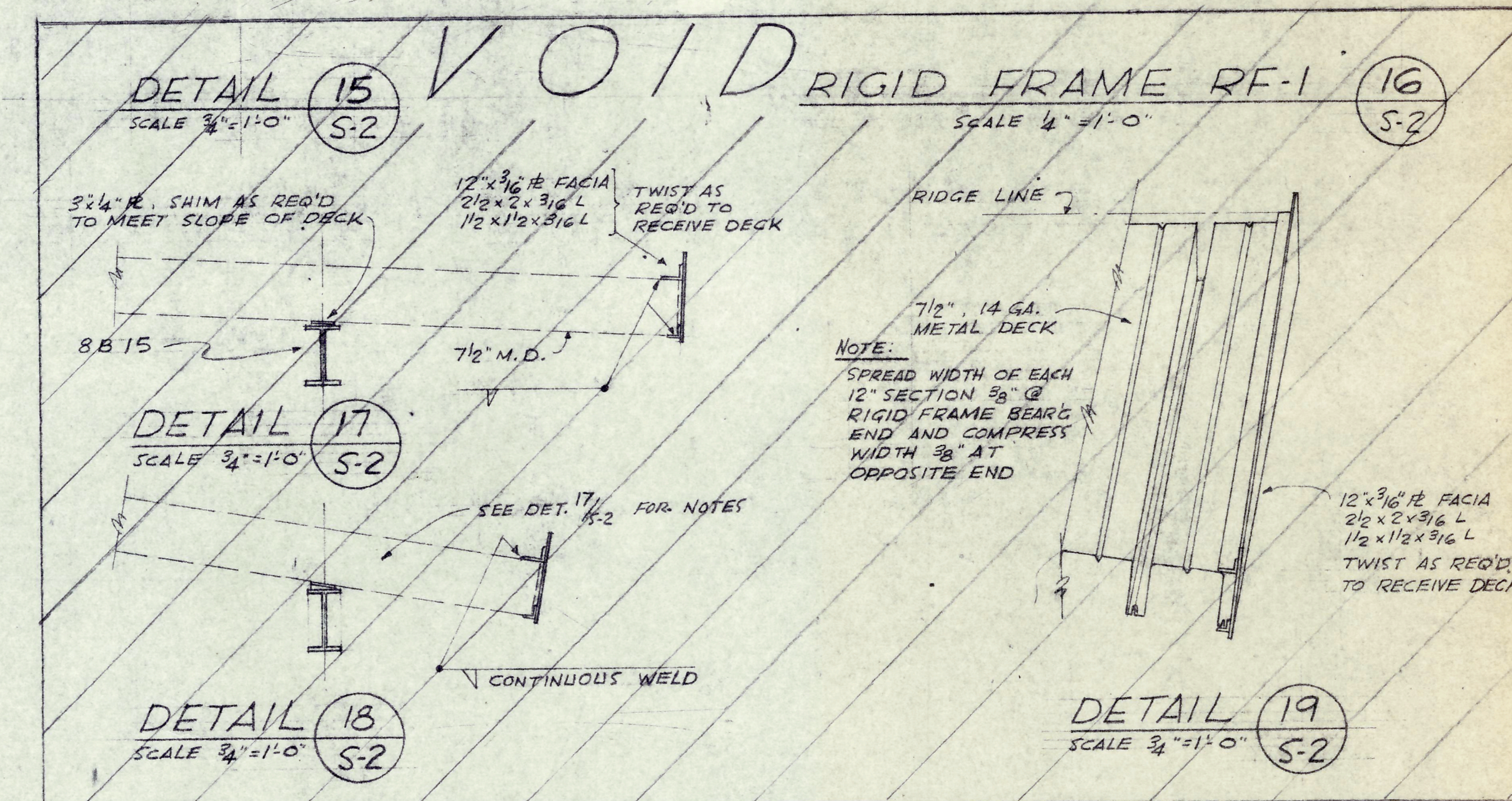
LIGHTING FIXTURE SCHEDULE

	DES	TYPE	LAMPS NO WATS	MOUNTING	MAKE	LOCATION	R E M A R K S
A.	FLOOR,	2	40	CEILING RECESSED ON INVERTED "T" MEMBERS	LITECONTROL #2944-RS	CLASS RM's & CONF. RMS.	4-LAMP RAPID START EXTRA SHALLOW 2'x4" UNIT WITH HINGED POLYSTYRENE DIFFUSER & END RAILS OF FINISH TO MATCH INVERTED "T" CEILING.
B.	FLOOR,	2	40	DO.	LITECONTROL #612-GRS	CORRIDORS	2-LAMP RAPID START, RECESSED 2'x4" UNIT WITH HINGED POLYSTYRENE DIFFUSER.
E.	FLOOR,	5	40	WALL SURF ABOVE CHALKBOARD	SOLAR#233-RS-B #233-RS-C	CLASS ROOMS	20-Ft., CONTINUOUS CHALKBOARD LIGHT. INSTALL ONE SWITCH PER ROW, ONLY DAYBRITE'S MOUNT DIRECT TO WALL (ADDITIVE ALTERNATE #4).
F.	FLOOR,	6	40	DO.	SOLAR #277-RS-B	DO.	24"-FT UNIT TO MATCH "E" (ADDITIVE ALTERNATE #4).
J.	INC.	2	75	CEILING SURFACE	ART METAC#1739	TOMETS	OPAL GLASS SWELD ON METAL CEILING PAN.
K.	DO.	1	50	DO.	BRYANT#5328	GASSETS	KEYLESS SOCKET IN PORCELAIN OUTLET COVER.
M.	INC.	1	150	SUSPEND TO LEVEL W/JOISTS	BENJAMIN#E-1802	JOH. CLOS.	INDUSTRIAL SOCKET REFLECTOR--ALL WHITE--ON CONDUIT STEM.
N.	INC.	1	150	WALL SURF ABOVE DOOR	MCPHIL BEN#43-50 VP	ENTRANCES	TAPERED, ROUND SCREW-IN OPAL ENCLOSING GLASS IN WEATHER-PROOF ALUMINUM WALL BRACKET.
V.	INC.	1	150	CEILING RECESSED.	LITECRAFT G-512	ENTRY B-55, B-56.	ADJUSTABLE SPOT UNIT IN RECESSED HOUSING. WHITE FINISH R=40 FLOOD LAMP.
AB.	FLOOR	2	40	DO.	LITECONTROL #2944-R	CORR. B-55, 58, 59.	FIXT. "A." EXCEPT W/2 LAMPS.
EA.	INC.	2	25	DO.	DAYBRITE #G-2524-L	CORR.#B-59	RED "EXIT" LETTERS ON WHITE GLASS IN HINGED FRAME SINGLE FACE UNIT WITH ARROW LEFT. GLASS BOTTOM.
EG.	INC.	2	25	DO.	DAYBRITE-G-2525-R/L	CORR.B-59	DOUBLE FACE UNIT TO MATCH "EB" W/ARROW RIGHT & ARROW LEFT.
EF.	INC.	2	25	DO.	DAYBRITE-G-2525-D	PASS. B-53	DOUBLE FACE UNIT TO MATCH "EB" W/DUOBLE ARROWS.
							ALL FIXTURES SHALL BE IDENTICAL TO THEIR RESPECTIVE COUNTERPARTS IN EXIST. BLDG.

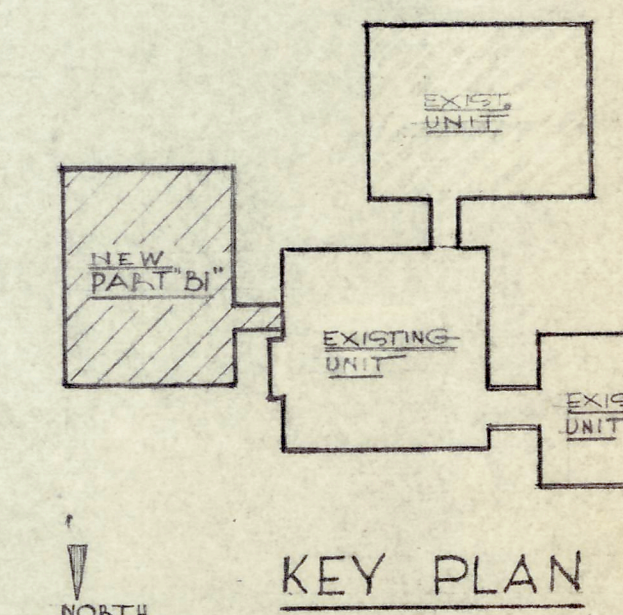
MECH. & ELECT. PLOT PLAN & SCHEDULES

DATE 10/16/62	ADDITION TO	FILE NO.
REVISED	MARSHALL ELEMENTARY SCHOOL SECT. 9 LIVONIA PUBLIC SCHOOLS SCHOOL DIST. WAYNE COUNTY, MICHIGAN	1587
DRAWN BY EAT.	EBERLE M. SMITH ASSOC., INC. ARCHITECTS ENGINEERS	SHEET NO. ME-1
PLAN 626 - 153 EAST ELIZABETH STREET - DETROIT 1 - WOODWARD 5-8180		

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COLUMN SCHEDULE					
COL. TYPE	C-1	C-2	C-3	C-4	
DESCRIPTION	<p>12" CAP H</p> <p>BM.</p> <p>3/4" @ 12"</p> <p>UNLESS SHOWN OTHERWISE</p> <p>10'-0" OF 1ST FL. TO TOP OF CAP</p> <p>10'-4 3/8" @ 5'4" IN SET 1' TO 0</p> <p>ELEV. 686'-0"</p> <p>FIRST FL. LINE</p> <p>11"</p> <p>TYP.</p>	<p>BM.</p> <p>12" CAP H</p> <p>3/4" @ 24"</p> <p>10'-0 7/8"</p> <p>7'</p> <p>TYP.</p>	<p>BM.</p> <p>12" CAP H</p> <p>3/2" @ 12.51"</p> <p>10'-0 7/8"</p> <p>7'</p>	<p>BM.</p> <p>12" CAP H</p> <p>4-1/4" BARS</p> <p>10'-0 7/8"</p> <p>7'</p>	
BASE H	6'5" x 0'9"	8' x 3 1/4' x 0'9"	8' x 3 1/4' x 0'9"	8' x 3 1/4' x 0'9"	
ANCHOR BOLTS	2-3/4" x 2'6"	3-3/4" x 2'6"	2-3/4" x 2'6"	2-3/4" x 2'6"	
P	SIZE	12 x 12			
E	VERT.	4" #5			
R	TIES	#2 @ 10%			
REMARKS	<p>COLS.</p> <p>11" FA, 4 1/2"</p> <p>3'9 1/8" HIGH</p>				

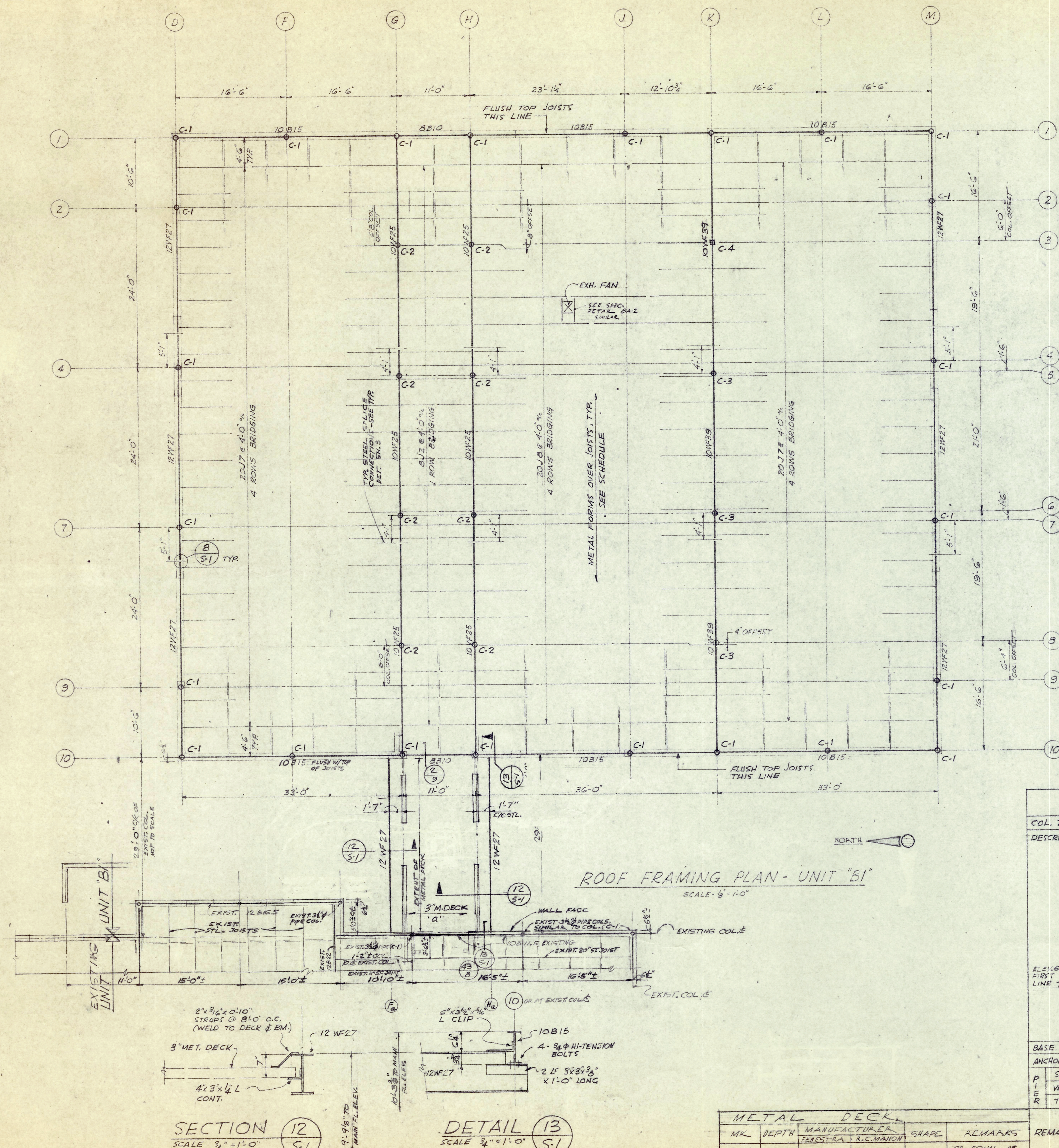


KEY PLAN

ROOF FRAMING & COL. SCHEDULE UNIT 1		
DATE 10/25/62	ADDITION TO	FILE NO.
REVISED	MARSHALL ELEMENTARY SCHOOL SECTION 9 LIVONIA PUBLIC SCHOOLS SCHOOL DISTRICT WAYNE COUNTY, MICHIGAN	1587
DRAWN BY T.W. GOK	EBERLE M. SMITH ASSOC., INC. ARCHITECTS ENGINEERS	SHEET NO. 5-1
ROOM 626 - 153 EAST ELIZABETH STREET - DETROIT 1. - WOODWARD 5-8160		

ROOF FRAMING PLAN - UNIT "B1"

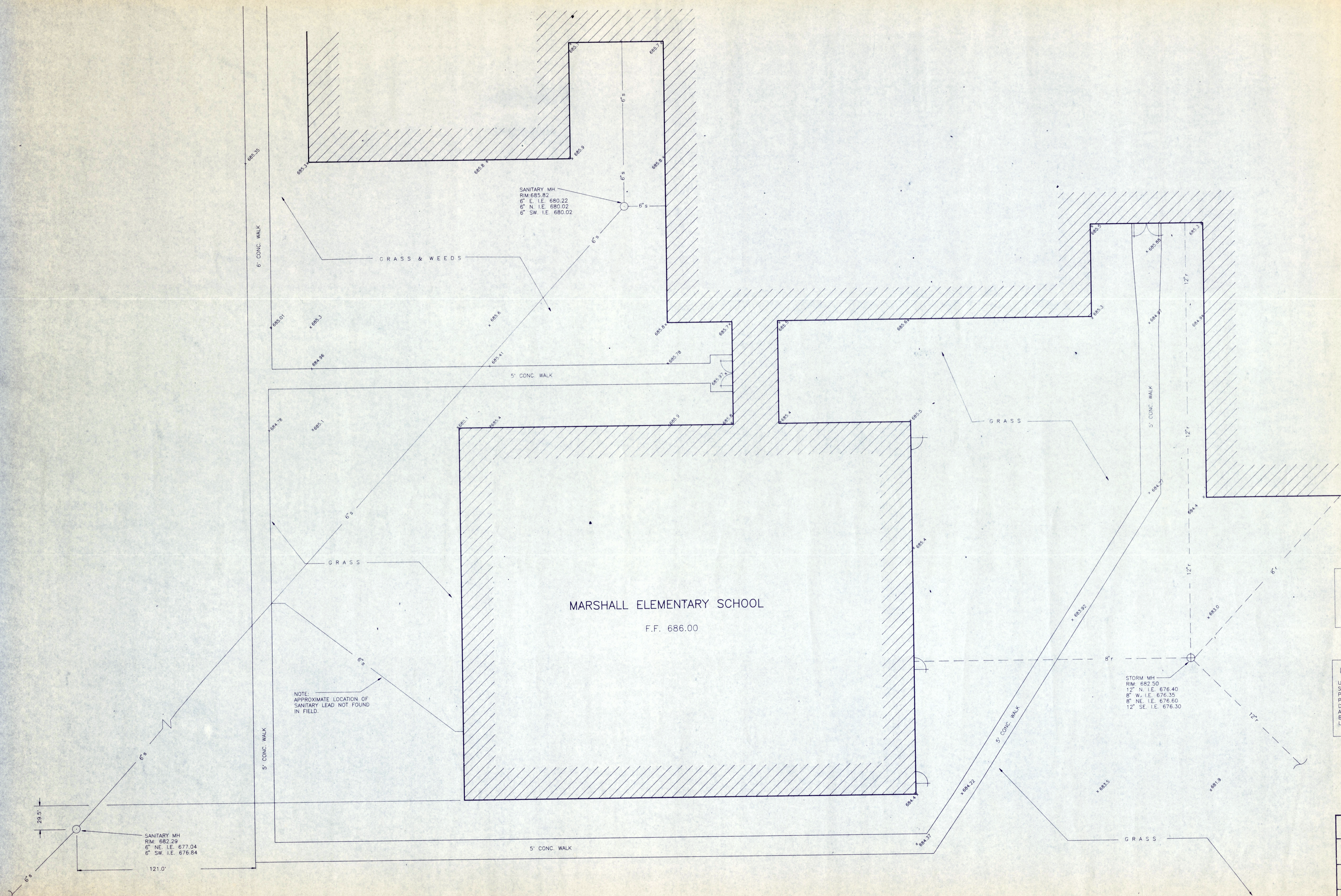
SCALE - $\frac{1}{2}'' = 1'-0''$



SECTION
SCALE $\frac{3}{4}" = 1'-0"$

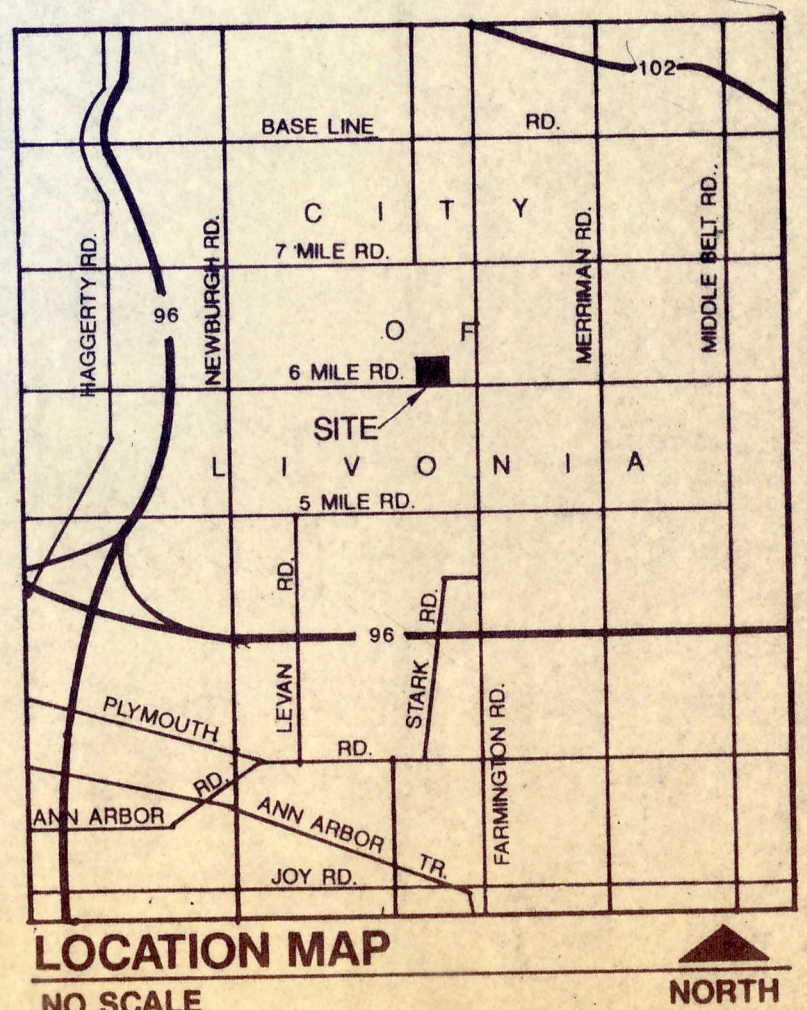
DETAIL 13
SCALE $\frac{3}{4}" = 1'-0"$ S-1

METAL DECK					
MK	DEPTH	MANUFACTURER		SHAPE	REMARKS
		FENESTRA	R.C. MAHON		
'Q'	3"	16D-16	M25R3(16/16)		OR EQUAL AS APPROVED BY ARCH.



BENCHMARK NOTE:
FINISHED FLOOR OF EXISTING BUILDING
ELEVATION 686.00.
ADD 600.00 TO ALL GRADES TO RECEIVE THE
CORRECT ELEVATION.

UTILITIES NOTE:
UNDERGROUND UTILITY LINES AND STRUCTURES
SHOWN ARE PER FIELD OBSERVATION WHERE
POSSIBLE AND FROM SCHOOL SITE PLANS
PREPARED BY EBERLE M. SMITH ASSOC., INC.,
DETROIT, MI, DATED 2-5-60. ALL MUNICIPALITIES
AND UTILITY COMPANIES SHOULD BE NOTIFIED
BY CONTRACTOR FOR FIELD LOCATION OF ALL
UTILITIES PRIOR TO CONSTRUCTION.



CLIENT:
TWP ASSOCIATES, INC.
107 South Main Street
Bloomfield Hills, MI, 48302

DATE: 7-1-92
ISSUED FOR: CLIENT

DBA DIETRICH, BAILEY AND ASSOCIATES, P.C.
107 South Main Street
Plymouth, Michigan 48170
313/455-3111 Fax 313/455-3127
Engineering Planning Surveying Landscape Architecture

TOPOGRAPHIC SURVEY
MARSHALL ELEMENTARY SCHOOL
PART OF THE S.E. 1/4 OF SECTION 9, T.1S., R.9E.,
CITY OF LIVONIA, WAYNE COUNTY, MICHIGAN

#2034-07

C1.1